

Supplementary Material

Investigating Casual Associations Among Gut Microbiota, Metabolites, and Neurodegenerative Diseases: A Mendelian Randomization Study

Supplementary Table 1. Detailed information for genome-wide association studies involved in the present Mendelian randomization study.

Variable	Consortium or study	Sample size	Journal	Year	Cohort	Nation of cohort	Number of samples
Gut							
Gut microbiota	MiBioGen	18,340	Nat Genet.	2021	BSPSPC	Germany	721
					CARDIAw	USA	257
					COPSAC	Denmark	380
					DanFunD16	Denmark	2396
					FGFP	Belgian	2259
					FOCUS	Germany	960
					GEM_HCE_v12	Canada	378
					GEM_HCE_v24	Canada	203
					GEM_ICHIP_HCE	Canada	662
					GenR	The Netherlands	1328
					HCHS/SOL	USA	1097
					KSCS	South Korea	811
					LLD	The Netherlands	875
					METSIM	Finland	522
					MIBS	The Netherlands	80
					NGRC	USA	77
					NTR	The Netherlands	279
					PNP	Israel	481

					POPCOL	Sweden	134
					RS3	The Netherlands	1220
					SHIP	Germany	996
					SHIP-TREND	Germany	905
					TwinsUK	UK	1205
gut metabolites	TwinsUK, KORA F4	7,824	Nat Genet.	2017	KORA F4	Germany	1,768
					TwinsUK	UK	6,056
Neurodegenerative diseases							
Alzheimer's disease	International Genomics of Alzheimer's Project (IGAP)	17,008 cases and 37,154 controls	Nat Genet.	2020	PGC-ALZ	Norway	2,066 cases, 7,637 controls
						Sweden	322 cases, 6,325 controls
						Sweden	348 cases, 779 controls
					IGAP	Europe/US	17,008 cases, 37,154 controls
					ADSP	Europe/US	4,343 cases, 3,163 controls
					UKbiobank	UK	47,793 cases, 328,320 controls
Parkinson's disease	International Parkinson's Disease Genomics Consortium (IPDGC), PDWBS	37,688 cases and 141,779 controls	Lancet Neurol.	2019	Nalls and colleagues,2014	Europe/US	13 708 cases, 95 282 controls
					IPDGC-NeuroX	Europe/US	5,851 cases, 5,866 controls
					PDWBS	Europe/US	6,476 cases, 302,042 controls
					UKbiobank	UK	18,618 proxies, 43,419 controls
					SGPD	Europe/US	1,169 cases, 968 controls
					IPDGC	Europe/US	8,036 cases, 5,803 controls
					Post-Chang, 23andMe	Europe/US	2,448 cases, 571,411 controls
Amyotrophic lateral sclerosis	International Amyotrophic Lateral Sclerosis Genomics	20,806 cases and 59,804 controls	j.neuron.	2018	BE1~BE2	Belgium	12,577 cases, 23,475 controls
					FR1~FR3	France	
					FIN1~FIN4	Finland	

Consortium (IALSC)	GER1~GER3	Germany	
	IT1~IT4	Italy	
	PU1	Portugal	
	SP1	Spain	
	SW1~SW2	Sweden	
	SWISS1	Switzerland	
	NL1~NL5	The Netherlands	
	UK1~UK5	UK	
	US1~US7	US	
	LNG	US	3,777 cases, 33,365 controls
		UK	449 cases, 226 controls
		Italy	2,853 cases, 2,143 controls
		France, Belgium	1,150 cases, 595 controls

Supplementary Table 2. Genome-wide significant and independent SNPs that were used as instruments for gut microbiota.

Trait	SNPs	Non-effect Allele	Effect Allele	Beta	Standard Error	p	Sample Size
phylum.Proteobacteria.id.2375	rs4340090	T	C	-0.067	0.015	9.99E-06	18250
phylum.Cyanobacteria.id.1500	rs2714554	C	T	0.092	0.020	9.99E-06	7118
phylum.Firmicutes.id.1672	rs35393748	T	A	-0.068	0.016	9.97E-06	18340
phylum.Euryarchaeota.id.55	rs56001610	G	A	-0.186	0.041	9.96E-06	3544
phylum.Euryarchaeota.id.55	rs62241845	T	A	-0.186	0.041	9.96E-06	3544
phylum.Euryarchaeota.id.55	rs62241844	G	C	-0.186	0.041	9.96E-06	3544
phylum.Lentisphaerae.id.2238	rs1363428	A	G	0.104	0.023	9.95E-06	4739
phylum.Tenericutes.id.3919	rs74338080	C	G	-0.110	0.025	9.95E-06	11130
phylum.Actinobacteria.id.400	rs12474050	C	T	-0.049	0.011	9.93E-06	17988
phylum.Actinobacteria.id.400	rs6743026	C	T	0.059	0.013	9.88E-06	17875
phylum.Firmicutes.id.1672	rs1984783	A	G	-0.068	0.016	9.84E-06	18340
phylum.Verrucomicrobia.id.3982	rs12512971	C	A	0.171	0.040	9.81E-06	3919
phylum.Firmicutes.id.1672	rs8112095	G	A	-0.069	0.016	9.75E-06	18337
phylum.Verrucomicrobia.id.3982	rs3995795	T	C	0.061	0.014	9.72E-06	12104
phylum.Proteobacteria.id.2375	rs10853761	C	T	0.047	0.011	9.72E-06	17769
phylum.Firmicutes.id.1672	rs978023	T	A	0.094	0.019	9.68E-06	17859
phylum.Firmicutes.id.1672	rs1963579	T	A	-0.068	0.016	9.68E-06	18340
phylum.Actinobacteria.id.400	rs4954555	T	C	0.091	0.021	9.64E-06	12795
phylum.Bacteroidetes.id.905	rs34380401	T	C	-0.059	0.014	9.59E-06	18328
phylum.Tenericutes.id.3919	rs7827910	T	A	0.063	0.014	9.57E-06	11389
phylum.Tenericutes.id.3919	rs12480021	G	A	-0.111	0.025	9.55E-06	11130
phylum.Tenericutes.id.3919	rs7843989	T	G	0.063	0.014	9.55E-06	11390
phylum.Proteobacteria.id.2375	rs4340523	T	C	0.049	0.011	9.52E-06	18238
phylum.Actinobacteria.id.400	rs11936212	G	C	0.049	0.011	9.52E-06	17990
phylum.Firmicutes.id.1672	rs3931771	A	G	-0.069	0.016	9.51E-06	18336
phylum.Bacteroidetes.id.905	rs7999780	A	G	0.054	0.012	9.47E-06	18325
phylum.Cyanobacteria.id.1500	rs13084677	A	T	-0.112	0.026	9.44E-06	6921
phylum.Tenericutes.id.3919	rs11102969	A	G	-0.066	0.015	9.44E-06	11002

phylum.Euryarchaeota.id.55	rs58106718	A	T	-0.182	0.041	9.41E-06	3546
phylum.Tenericutes.id.3919	rs67450615	T	G	0.072	0.016	9.40E-06	11374
phylum.Actinobacteria.id.400	rs11766971	C	T	0.048	0.011	9.40E-06	17987
phylum.Tenericutes.id.3919	rs10858092	T	C	-0.065	0.015	9.40E-06	11002
phylum.Euryarchaeota.id.55	rs9594528	A	G	0.195	0.044	9.37E-06	3664
phylum.Euryarchaeota.id.55	rs6064552	C	T	-0.124	0.028	9.34E-06	3775
phylum.Actinobacteria.id.400	rs13192624	C	T	-0.052	0.012	9.33E-06	17985
phylum.Actinobacteria.id.400	rs4953938	G	A	0.047	0.011	9.30E-06	17990
phylum.Tenericutes.id.3919	rs12136140	A	G	-0.066	0.015	9.28E-06	11000
phylum.Actinobacteria.id.400	rs75211493	A	G	0.084	0.018	9.27E-06	16605
phylum.Firmicutes.id.1672	rs9730854	A	G	-0.048	0.011	9.26E-06	17745
phylum.Firmicutes.id.1672	rs2273429	G	A	-0.070	0.015	9.26E-06	18337
phylum.Proteobacteria.id.2375	rs11126162	C	T	-0.077	0.019	9.26E-06	18250
phylum.Proteobacteria.id.2375	rs74757828	T	A	0.095	0.022	9.25E-06	16634
phylum.Actinobacteria.id.400	rs4312299	G	C	0.049	0.011	9.21E-06	17982
phylum.Bacteroidetes.id.905	rs1808630	C	T	0.068	0.015	9.21E-06	17406
phylum.Lentisphaerae.id.2238	rs60995569	G	T	-0.161	0.034	9.19E-06	4737
phylum.Proteobacteria.id.2375	rs11083675	C	T	0.047	0.011	9.18E-06	17769
phylum.Euryarchaeota.id.55	rs12155661	C	T	-0.117	0.026	9.16E-06	3855
phylum.Bacteroidetes.id.905	rs79037	G	A	-0.055	0.012	9.13E-06	18335
phylum.Tenericutes.id.3919	rs10776807	A	G	-0.066	0.015	9.12E-06	11002
phylum.Tenericutes.id.3919	rs443345	G	A	-0.066	0.015	9.11E-06	11000
phylum.Cyanobacteria.id.1500	rs61972390	C	T	0.107	0.024	9.11E-06	6486
phylum.Cyanobacteria.id.1500	rs2608307	C	T	0.092	0.020	9.09E-06	7118
phylum.Actinobacteria.id.400	rs11900832	C	T	0.064	0.015	9.05E-06	17989
phylum.Euryarchaeota.id.55	rs7635580	G	A	-0.185	0.041	9.00E-06	3546
phylum.Cyanobacteria.id.1500	rs7644367	G	A	-0.118	0.027	8.98E-06	6922
phylum.Tenericutes.id.3919	rs10504256	G	A	0.063	0.014	8.96E-06	11390
phylum.Firmicutes.id.1672	rs58880850	A	C	-0.069	0.016	8.90E-06	18340
phylum.Tenericutes.id.3919	rs13023735	A	G	0.063	0.014	8.86E-06	11389
phylum.Cyanobacteria.id.1500	rs2585223	C	T	0.111	0.025	8.86E-06	6911

phylum.Actinobacteria.id.400	rs34284163	T	A	-0.060	0.014	8.82E-06	17987
phylum.Verrucomicrobia.id.3982	rs61779206	C	T	-0.073	0.016	8.82E-06	12088
phylum.Lentisphaerae.id.2238	rs73113483	A	T	-0.132	0.029	8.79E-06	4723
phylum.Actinobacteria.id.400	rs10871420	A	G	0.049	0.011	8.79E-06	17990
phylum.Tenericutes.id.3919	rs367586	A	C	-0.066	0.015	8.77E-06	11000
phylum.Actinobacteria.id.400	rs28539813	C	T	0.049	0.011	8.77E-06	17988
phylum.Actinobacteria.id.400	rs80124826	C	T	-0.124	0.028	8.75E-06	11999
phylum.Actinobacteria.id.400	rs520449	T	C	-0.048	0.011	8.74E-06	17183
phylum.Cyanobacteria.id.1500	rs789050	G	A	-0.097	0.021	8.74E-06	7113
phylum.Actinobacteria.id.400	rs72847650	C	A	-0.049	0.011	8.74E-06	16976
phylum.Verrucomicrobia.id.3982	rs736124	T	A	-0.073	0.016	8.72E-06	12090
phylum.Proteobacteria.id.2375	rs10750258	C	A	-0.049	0.011	8.72E-06	18250
phylum.Euryarchaeota.id.55	rs74599069	C	A	0.218	0.049	8.72E-06	3386
phylum.Firmicutes.id.1672	rs8085381	A	G	0.065	0.015	8.67E-06	18339
phylum.Firmicutes.id.1672	rs56199908	C	T	-0.186	0.041	8.67E-06	5618
phylum.Tenericutes.id.3919	rs10745356	A	C	-0.066	0.015	8.64E-06	11002
phylum.Verrucomicrobia.id.3982	rs56161035	C	T	0.063	0.014	8.61E-06	12382
phylum.Tenericutes.id.3919	rs417270	C	T	-0.066	0.015	8.60E-06	11000
phylum.Tenericutes.id.3919	rs1465607	C	T	-0.066	0.015	8.59E-06	11002
phylum.Firmicutes.id.1672	rs2547978	G	A	0.047	0.011	8.57E-06	18338
phylum.Actinobacteria.id.400	rs9920349	G	A	0.049	0.011	8.57E-06	17990
phylum.Actinobacteria.id.400	rs28385412	C	T	0.049	0.011	8.54E-06	17990
phylum.Actinobacteria.id.400	rs80274970	C	T	0.084	0.019	8.53E-06	17492
phylum.Tenericutes.id.3919	rs13025367	C	G	0.063	0.014	8.53E-06	11392
phylum.Tenericutes.id.3919	rs10097590	G	A	0.067	0.015	8.52E-06	11391
phylum.Firmicutes.id.1672	rs10933355	G	A	0.080	0.018	8.50E-06	17818
phylum.Actinobacteria.id.400	rs7597802	A	T	0.065	0.015	8.49E-06	17989
phylum.Firmicutes.id.1672	rs13409228	G	A	0.095	0.019	8.45E-06	17859
phylum.Firmicutes.id.1672	rs4933026	A	T	-0.069	0.016	8.43E-06	18336
phylum.Bacteroidetes.id.905	rs62531359	G	T	0.066	0.015	8.42E-06	18321
phylum.Tenericutes.id.3919	rs2464826	C	A	0.094	0.021	8.40E-06	10998

phylum.Verrucomicrobia.id.3982	rs77055143	C	T	0.063	0.014	8.39E-06	12383
phylum.Firmicutes.id.1672	rs1568247	G	A	0.080	0.018	8.39E-06	17817
phylum.Cyanobacteria.id.1500	rs2714556	T	C	0.093	0.020	8.38E-06	7118
phylum.Bacteroidetes.id.905	rs2138406	G	T	0.058	0.013	8.38E-06	18334
phylum.Actinobacteria.id.400	rs11889843	G	A	0.065	0.015	8.37E-06	17989
phylum.Euryarchaeota.id.55	rs9594529	A	G	0.197	0.044	8.36E-06	3546
phylum.Proteobacteria.id.2375	rs1989371	C	A	0.047	0.011	8.35E-06	17769
phylum.Proteobacteria.id.2375	rs11668790	C	G	0.047	0.011	8.27E-06	17769
phylum.Cyanobacteria.id.1500	rs9832125	C	T	-0.113	0.026	8.25E-06	6921
phylum.Euryarchaeota.id.55	rs62241832	G	A	-0.188	0.041	8.24E-06	3544
phylum.Cyanobacteria.id.1500	rs2714558	G	C	0.093	0.020	8.24E-06	7118
phylum.Cyanobacteria.id.1500	rs3752683	T	C	0.093	0.020	8.17E-06	7118
phylum.Tenericutes.id.3919	rs7551176	T	C	-0.067	0.015	8.14E-06	11002
phylum.Tenericutes.id.3919	rs10858094	C	T	-0.066	0.015	8.13E-06	11002
phylum.Euryarchaeota.id.55	rs6508769	C	T	0.151	0.034	8.12E-06	3483
phylum.Tenericutes.id.3919	rs12711447	T	C	-0.067	0.015	8.10E-06	11002
phylum.Cyanobacteria.id.1500	rs12555298	A	G	0.097	0.022	8.09E-06	7096
phylum.Proteobacteria.id.2375	rs6707783	T	C	0.085	0.019	8.09E-06	17324
phylum.Tenericutes.id.3919	rs28537087	A	G	0.082	0.019	8.07E-06	11382
phylum.Firmicutes.id.1672	rs7573799	G	C	-0.070	0.015	8.05E-06	17859
phylum.Firmicutes.id.1672	rs12983973	G	A	-0.069	0.016	7.95E-06	18337
phylum.Actinobacteria.id.400	rs62287785	G	A	0.049	0.011	7.92E-06	17989
phylum.Proteobacteria.id.2375	rs7246972	T	C	0.048	0.011	7.88E-06	17769
phylum.Proteobacteria.id.2375	rs7255021	G	A	0.048	0.011	7.85E-06	17769
phylum.Proteobacteria.id.2375	rs6509052	T	A	0.048	0.011	7.85E-06	17769
phylum.Actinobacteria.id.400	rs11892750	G	A	0.065	0.015	7.84E-06	17989
phylum.Proteobacteria.id.2375	rs11673614	G	T	0.048	0.011	7.84E-06	17769
phylum.Proteobacteria.id.2375	rs1439134	T	C	0.049	0.011	7.81E-06	18238
phylum.Proteobacteria.id.2375	rs1962505	G	T	0.048	0.011	7.77E-06	17769
phylum.Euryarchaeota.id.55	rs11022995	A	G	-0.104	0.023	7.73E-06	3864
phylum.Euryarchaeota.id.55	rs45567540	G	C	-0.130	0.029	7.72E-06	3852

phylum.Firmicutes.id.1672	rs72738886	C	T	0.086	0.019	7.68E-06	16934
phylum.Verrucomicrobia.id.3982	rs2895059	C	T	0.072	0.016	7.66E-06	12383
phylum.Proteobacteria.id.2375	rs4029165	A	G	0.048	0.011	7.65E-06	17769
phylum.Euryarchaeota.id.55	rs62240380	C	T	-0.184	0.041	7.63E-06	3546
phylum.Verrucomicrobia.id.3982	rs2169719	A	G	0.064	0.014	7.63E-06	12373
phylum.Euryarchaeota.id.55	rs62240388	A	G	-0.187	0.041	7.62E-06	3503
phylum.Proteobacteria.id.2375	rs11668675	A	G	0.048	0.011	7.60E-06	17769
phylum.Euryarchaeota.id.55	rs9477075	G	A	-0.155	0.033	7.59E-06	3863
phylum.Proteobacteria.id.2375	rs1962504	G	C	0.048	0.011	7.56E-06	17769
phylum.Actinobacteria.id.400	rs6756200	T	C	0.049	0.011	7.54E-06	17782
phylum.Actinobacteria.id.400	rs10928529	G	A	0.065	0.015	7.52E-06	17989
phylum.Tenericutes.id.3919	rs10858095	C	G	-0.066	0.015	7.51E-06	11002
phylum.Tenericutes.id.3919	rs6695482	G	C	-0.066	0.015	7.47E-06	11002
phylum.Actinobacteria.id.400	rs4954212	A	G	0.065	0.015	7.41E-06	17988
phylum.Firmicutes.id.1672	rs7593057	C	G	0.081	0.018	7.38E-06	17817
phylum.Bacteroidetes.id.905	rs6586324	C	T	0.048	0.011	7.37E-06	18332
phylum.Actinobacteria.id.400	rs35215526	G	A	0.081	0.018	7.34E-06	17984
phylum.Tenericutes.id.3919	rs4885016	C	T	-0.082	0.018	7.27E-06	11388
phylum.Firmicutes.id.1672	rs6815608	C	T	0.094	0.021	7.24E-06	16731
phylum.Bacteroidetes.id.905	rs17343978	C	A	-0.056	0.012	7.22E-06	18335
phylum.Euryarchaeota.id.55	rs7015093	A	G	-0.118	0.026	7.20E-06	3855
phylum.Proteobacteria.id.2375	rs4803564	G	C	0.048	0.011	7.19E-06	17655
phylum.Proteobacteria.id.2375	rs72771021	T	C	0.142	0.031	7.18E-06	9009
phylum.Actinobacteria.id.400	rs10200912	G	A	0.050	0.011	7.17E-06	17980
phylum.Bacteroidetes.id.905	rs72706335	C	T	-0.223	0.049	7.13E-06	3820
phylum.Euryarchaeota.id.55	rs6776814	C	T	-0.185	0.040	7.13E-06	3546
phylum.Verrucomicrobia.id.3982	rs11252899	G	A	0.074	0.017	7.12E-06	12300
phylum.Cyanobacteria.id.1500	rs2261414	C	T	0.093	0.020	7.11E-06	7118
phylum.Proteobacteria.id.2375	rs2526715	A	T	0.048	0.011	7.10E-06	17769
phylum.Proteobacteria.id.2375	rs11083676	G	A	0.048	0.011	7.02E-06	17769
phylum.Lentisphaerae.id.2238	rs2546105	T	A	0.106	0.023	7.02E-06	4739

phylum.Actinobacteria.id.400	rs62287778	T	C	0.049	0.011	7.01E-06	17986
phylum.Proteobacteria.id.2375	rs1036607	C	T	0.050	0.011	6.98E-06	18249
phylum.Tenericutes.id.3919	rs10099240	G	C	0.065	0.014	6.96E-06	11390
phylum.Proteobacteria.id.2375	rs3890996	G	T	-0.047	0.011	6.95E-06	18120
phylum.Proteobacteria.id.2375	rs8103457	T	A	0.048	0.011	6.93E-06	17769
phylum.Proteobacteria.id.2375	rs11715072	A	G	-0.052	0.012	6.90E-06	18249
phylum.Cyanobacteria.id.1500	rs13072044	G	T	-0.122	0.027	6.89E-06	6486
phylum.Euryarchaeota.id.55	rs73475126	T	G	0.199	0.044	6.89E-06	3546
phylum.Cyanobacteria.id.1500	rs12491989	C	G	-0.120	0.027	6.87E-06	6922
phylum.Proteobacteria.id.2375	rs2526706	G	A	0.048	0.011	6.86E-06	17769
phylum.Proteobacteria.id.2375	rs8102759	C	G	0.048	0.011	6.86E-06	17769
phylum.Bacteroidetes.id.905	rs1365795	T	C	0.090	0.020	6.84E-06	17299
phylum.Firmicutes.id.1672	rs9973480	A	C	0.082	0.018	6.82E-06	17816
phylum.Firmicutes.id.1672	rs12554342	C	G	-0.053	0.012	6.81E-06	18332
phylum.Firmicutes.id.1672	rs6814436	C	T	0.068	0.015	6.80E-06	18336
phylum.Proteobacteria.id.2375	rs8103079	G	A	0.048	0.011	6.80E-06	17769
phylum.Tenericutes.id.3919	rs4282557	C	T	0.065	0.014	6.79E-06	11389
phylum.Actinobacteria.id.400	rs7673556	T	C	0.050	0.011	6.78E-06	17987
phylum.Bacteroidetes.id.905	rs73975618	A	G	-0.189	0.043	6.77E-06	3350
phylum.Lentisphaerae.id.2238	rs17114848	A	G	0.149	0.032	6.77E-06	4739
phylum.Tenericutes.id.3919	rs6664236	A	C	-0.067	0.015	6.74E-06	10994
phylum.Actinobacteria.id.400	rs62287786	A	G	0.050	0.011	6.73E-06	17989
phylum.Tenericutes.id.3919	rs10085973	C	G	0.065	0.014	6.68E-06	11390
phylum.Actinobacteria.id.400	rs578384	C	T	-0.049	0.011	6.68E-06	17178
phylum.Proteobacteria.id.2375	rs8105730	T	C	0.048	0.011	6.67E-06	17769
phylum.Proteobacteria.id.2375	rs10775538	C	A	0.048	0.011	6.66E-06	17769
phylum.Cyanobacteria.id.1500	rs7148504	T	G	0.080	0.018	6.62E-06	7118
phylum.Euryarchaeota.id.55	rs4848258	A	T	-0.105	0.023	6.62E-06	3861
phylum.Tenericutes.id.3919	rs17214486	A	C	0.061	0.014	6.61E-06	11387
phylum.Euryarchaeota.id.55	rs10206171	C	T	-0.112	0.025	6.58E-06	3483
phylum.Proteobacteria.id.2375	rs11083683	A	T	0.048	0.011	6.55E-06	17769

phylum.Bacteroidetes.id.905	rs929878	T	C	-0.054	0.012	6.51E-06	18335
phylum.Actinobacteria.id.400	rs62170081	A	G	0.086	0.020	6.51E-06	15214
phylum.Firmicutes.id.1672	rs74905079	A	G	0.081	0.018	6.46E-06	17816
phylum.Proteobacteria.id.2375	rs1989369	C	T	0.048	0.011	6.44E-06	17769
phylum.Cyanobacteria.id.1500	rs616178	C	A	-0.148	0.033	6.44E-06	6922
phylum.Cyanobacteria.id.1500	rs2608308	G	A	0.094	0.020	6.39E-06	7118
phylum.Tenericutes.id.3919	rs4970754	G	A	-0.067	0.015	6.38E-06	11002
phylum.Proteobacteria.id.2375	rs141155	A	C	-0.051	0.011	6.33E-06	18250
phylum.Proteobacteria.id.2375	rs12467198	T	C	0.050	0.011	6.31E-06	18238
phylum.Actinobacteria.id.400	rs10932451	A	G	0.050	0.011	6.29E-06	17990
phylum.Verrucomicrobia.id.3982	rs9349825	G	A	-0.066	0.014	6.27E-06	12373
phylum.Actinobacteria.id.400	rs6704561	C	T	0.054	0.012	6.26E-06	17782
phylum.Proteobacteria.id.2375	rs10775540	A	G	0.048	0.011	6.21E-06	17769
phylum.Cyanobacteria.id.1500	rs545090	T	C	-0.149	0.033	6.20E-06	6922
phylum.Cyanobacteria.id.1500	rs12714900	G	T	-0.120	0.027	6.17E-06	6922
phylum.Firmicutes.id.1672	rs6752031	C	T	0.082	0.018	6.16E-06	17817
phylum.Proteobacteria.id.2375	rs11083680	C	T	0.048	0.011	6.16E-06	17769
phylum.Actinobacteria.id.400	rs62287783	G	A	0.050	0.011	6.14E-06	17989
phylum.Tenericutes.id.3919	rs10745352	C	T	-0.067	0.015	6.13E-06	11002
phylum.Firmicutes.id.1672	rs2220596	A	G	-0.070	0.016	6.12E-06	18340
phylum.Cyanobacteria.id.1500	rs12714902	G	A	-0.120	0.027	6.08E-06	6922
phylum.Cyanobacteria.id.1500	rs13060131	C	T	-0.120	0.027	6.08E-06	6922
phylum.Cyanobacteria.id.1500	rs12714903	C	T	-0.120	0.027	6.07E-06	6922
phylum.Euryarchaeota.id.55	rs9942109	G	A	-0.190	0.041	6.06E-06	3544
phylum.Bacteroidetes.id.905	rs2418267	G	A	0.061	0.014	6.05E-06	17524
phylum.Actinobacteria.id.400	rs72970286	T	G	0.086	0.019	6.03E-06	15212
phylum.Cyanobacteria.id.1500	rs4494631	A	G	-0.095	0.021	5.98E-06	7117
phylum.Tenericutes.id.3919	rs10497163	G	T	0.069	0.015	5.94E-06	11392
phylum.Euryarchaeota.id.55	rs62240373	G	A	-0.190	0.041	5.93E-06	3544
phylum.Proteobacteria.id.2375	rs6509053	A	T	0.048	0.011	5.92E-06	17769
phylum.Cyanobacteria.id.1500	rs13088024	T	A	-0.120	0.027	5.89E-06	6922

phylum.Tenericutes.id.3919	rs78169027	G	A	-0.108	0.024	5.88E-06	10542
phylum.Actinobacteria.id.400	rs4954213	G	T	0.066	0.015	5.87E-06	17989
phylum.Lentisphaerae.id.2238	rs2031282	G	A	0.120	0.027	5.86E-06	4739
phylum.Tenericutes.id.3919	rs4970840	G	A	-0.068	0.015	5.85E-06	11002
phylum.Actinobacteria.id.400	rs4954570	G	C	0.055	0.012	5.85E-06	17986
phylum.Tenericutes.id.3919	rs11102971	T	C	-0.067	0.015	5.84E-06	11002
phylum.Cyanobacteria.id.1500	rs2714557	A	T	0.094	0.020	5.84E-06	7118
phylum.Firmicutes.id.1672	rs10189248	G	A	0.089	0.018	5.81E-06	18340
phylum.Cyanobacteria.id.1500	rs4407129	C	T	-0.096	0.021	5.80E-06	7118
phylum.Tenericutes.id.3919	rs3931560	C	A	-0.067	0.015	5.79E-06	11002
phylum.Firmicutes.id.1672	rs4750583	G	A	0.062	0.014	5.79E-06	16934
phylum.Proteobacteria.id.2375	rs7251480	A	C	0.048	0.011	5.77E-06	17769
phylum.Proteobacteria.id.2375	rs1860455	T	G	0.048	0.011	5.76E-06	17769
phylum.Tenericutes.id.3919	rs3739327	G	A	0.066	0.014	5.75E-06	10932
phylum.Euryarchaeota.id.55	rs62240384	C	T	-0.187	0.041	5.72E-06	3546
phylum.Proteobacteria.id.2375	rs2526716	A	G	0.048	0.011	5.71E-06	17769
phylum.Actinobacteria.id.400	rs13408096	G	T	0.066	0.015	5.69E-06	17989
phylum.Cyanobacteria.id.1500	rs13072359	A	C	-0.121	0.027	5.69E-06	6922
phylum.Actinobacteria.id.400	rs12528285	T	C	0.081	0.018	5.69E-06	17990
phylum.Cyanobacteria.id.1500	rs10510427	G	A	-0.122	0.026	5.69E-06	6922
phylum.Proteobacteria.id.2375	rs11670071	G	A	0.048	0.011	5.68E-06	17769
phylum.Cyanobacteria.id.1500	rs1567601	T	A	-0.099	0.022	5.66E-06	6682
phylum.Proteobacteria.id.2375	rs12610793	T	G	0.048	0.011	5.64E-06	17769
phylum.Tenericutes.id.3919	rs11678196	A	G	0.064	0.014	5.61E-06	11392
phylum.Firmicutes.id.1672	rs10183008	G	A	0.091	0.018	5.60E-06	18339
phylum.Cyanobacteria.id.1500	rs2714559	T	C	0.094	0.020	5.59E-06	7118
phylum.Proteobacteria.id.2375	rs8102971	C	T	0.049	0.011	5.59E-06	17769
phylum.Cyanobacteria.id.1500	rs2608309	G	A	0.094	0.020	5.57E-06	7118
phylum.Actinobacteria.id.400	rs3806502	C	T	0.066	0.015	5.57E-06	17990
phylum.Firmicutes.id.1672	rs7601602	A	G	0.082	0.018	5.56E-06	17815
phylum.Firmicutes.id.1672	rs6711453	A	G	0.082	0.018	5.55E-06	17817

phylum.Proteobacteria.id.2375	rs1058958	A	G	0.048	0.011	5.51E-06	17769
phylum.Cyanobacteria.id.1500	rs2553291	A	G	0.094	0.020	5.51E-06	7118
phylum.Tenericutes.id.3919	rs652651	G	A	-0.067	0.015	5.50E-06	11001
phylum.Proteobacteria.id.2375	rs8106280	G	A	0.049	0.011	5.48E-06	17769
phylum.Euryarchaeota.id.55	rs6784384	G	A	-0.187	0.041	5.47E-06	3546
phylum.Tenericutes.id.3919	rs13020096	T	C	0.064	0.014	5.47E-06	11392
phylum.Firmicutes.id.1672	rs11689387	A	G	0.082	0.018	5.46E-06	17817
phylum.Cyanobacteria.id.1500	rs13098772	C	A	-0.123	0.027	5.45E-06	6920
phylum.Lentisphaerae.id.2238	rs62481809	C	G	0.106	0.023	5.42E-06	4729
phylum.Euryarchaeota.id.55	rs6541968	T	C	-0.106	0.023	5.41E-06	3864
phylum.Cyanobacteria.id.1500	rs13072729	T	C	-0.122	0.027	5.40E-06	6920
phylum.Euryarchaeota.id.55	rs41288287	C	T	0.201	0.044	5.39E-06	3664
phylum.Proteobacteria.id.2375	rs6467551	G	C	0.050	0.011	5.39E-06	18250
phylum.Proteobacteria.id.2375	rs11668739	G	A	0.049	0.011	5.37E-06	17769
phylum.Cyanobacteria.id.1500	rs2608306	A	G	0.095	0.020	5.37E-06	7118
phylum.Euryarchaeota.id.55	rs45498998	A	G	-0.132	0.029	5.32E-06	3850
phylum.Cyanobacteria.id.1500	rs615396	A	G	-0.149	0.033	5.31E-06	6922
phylum.Euryarchaeota.id.55	rs56131665	A	G	0.177	0.039	5.30E-06	3736
phylum.Verrucomicrobia.id.3982	rs61779207	A	G	-0.076	0.016	5.28E-06	12087
phylum.Proteobacteria.id.2375	rs7255373	A	T	0.049	0.011	5.25E-06	17769
phylum.Bacteroidetes.id.905	rs12486971	T	C	-0.061	0.014	5.25E-06	18328
phylum.Proteobacteria.id.2375	rs11667150	G	A	0.048	0.011	5.24E-06	17769
phylum.Proteobacteria.id.2375	rs7246092	T	C	0.049	0.011	5.20E-06	17769
phylum.Lentisphaerae.id.2238	rs72640280	G	A	0.220	0.049	5.19E-06	3820
phylum.Firmicutes.id.1672	rs36111799	T	C	-0.048	0.011	5.17E-06	18226
phylum.Firmicutes.id.1672	rs72771021	T	C	-0.141	0.031	5.12E-06	9068
phylum.Euryarchaeota.id.55	rs894996	A	C	0.204	0.044	5.12E-06	3746
phylum.Proteobacteria.id.2375	rs11083681	G	T	0.049	0.011	5.08E-06	17769
phylum.Cyanobacteria.id.1500	rs13072444	G	A	-0.121	0.027	5.07E-06	6922
phylum.Euryarchaeota.id.55	rs62241834	G	T	-0.192	0.041	5.07E-06	3544
phylum.Proteobacteria.id.2375	rs7248256	T	C	0.049	0.011	5.04E-06	17769

phylum.Actinobacteria.id.400	rs638382	C	T	-0.050	0.011	5.03E-06	17180
phylum.Actinobacteria.id.400	rs6727889	C	T	0.067	0.015	5.01E-06	17990
phylum.Tenericutes.id.3919	rs4970749	A	G	-0.068	0.015	5.01E-06	11002
phylum.Cyanobacteria.id.1500	rs13095126	T	C	-0.121	0.027	5.00E-06	6922
phylum.Firmicutes.id.1672	rs4289208	T	C	0.091	0.018	4.99E-06	18339
phylum.Proteobacteria.id.2375	rs2883539	G	C	0.049	0.011	4.96E-06	17769
phylum.Proteobacteria.id.2375	rs6509049	T	G	0.049	0.011	4.94E-06	17769
phylum.Proteobacteria.id.2375	rs9789252	A	C	0.049	0.011	4.91E-06	17769
phylum.Proteobacteria.id.2375	rs2347696	T	C	0.050	0.011	4.90E-06	18248
phylum.Actinobacteria.id.400	rs6737635	G	T	0.066	0.015	4.90E-06	17990
phylum.Proteobacteria.id.2375	rs4494654	C	T	0.049	0.011	4.87E-06	17769
phylum.Actinobacteria.id.400	rs2874874	A	C	0.078	0.017	4.86E-06	17990
phylum.Euryarchaeota.id.55	rs56209241	G	A	-0.194	0.042	4.86E-06	3501
phylum.Verrucomicrobia.id.3982	rs79293902	C	T	0.105	0.023	4.86E-06	11704
phylum.Euryarchaeota.id.55	rs62240385	T	G	-0.192	0.041	4.85E-06	3503
phylum.Firmicutes.id.1672	rs10164700	G	A	0.082	0.018	4.85E-06	17817
phylum.Proteobacteria.id.2375	rs312757	G	C	-0.052	0.011	4.84E-06	18250
phylum.Proteobacteria.id.2375	rs7246662	G	A	0.049	0.011	4.83E-06	17769
phylum.Firmicutes.id.1672	rs11690370	C	T	0.083	0.018	4.83E-06	17817
phylum.Actinobacteria.id.400	rs58764609	G	T	0.050	0.011	4.83E-06	17989
phylum.Firmicutes.id.1672	rs113037048	C	T	0.082	0.018	4.83E-06	17817
phylum.Cyanobacteria.id.1500	rs17039208	T	C	-0.121	0.027	4.79E-06	6922
phylum.Verrucomicrobia.id.3982	rs17533020	A	G	0.095	0.020	4.79E-06	12090
phylum.Proteobacteria.id.2375	rs2526712	A	G	0.049	0.011	4.78E-06	17769
phylum.Firmicutes.id.1672	rs10201035	C	T	0.090	0.018	4.77E-06	18340
phylum.Euryarchaeota.id.55	rs77658038	C	A	-0.160	0.034	4.75E-06	3810
phylum.Firmicutes.id.1672	rs7247191	C	T	-0.071	0.016	4.73E-06	18340
phylum.Actinobacteria.id.400	rs6745996	A	G	0.069	0.016	4.71E-06	17990
phylum.Tenericutes.id.3919	rs10111052	T	G	0.066	0.014	4.70E-06	11390
phylum.Actinobacteria.id.400	rs72972104	G	A	0.086	0.019	4.70E-06	15214
phylum.Actinobacteria.id.400	rs2322812	A	G	0.079	0.017	4.67E-06	17990

phylum.Proteobacteria.id.2375	rs12610565	G	A	0.049	0.011	4.66E-06	17769
phylum.Actinobacteria.id.400	rs12233092	G	A	0.075	0.016	4.66E-06	17985
phylum.Actinobacteria.id.400	rs12992815	C	G	0.078	0.017	4.64E-06	17990
phylum.Euryarchaeota.id.55	rs7635189	A	G	0.120	0.026	4.64E-06	3483
phylum.Verrucomicrobia.id.3982	rs6845301	G	A	0.105	0.023	4.62E-06	11704
phylum.Actinobacteria.id.400	rs6496870	C	T	0.051	0.011	4.62E-06	17990
phylum.Proteobacteria.id.2375	rs10412444	C	T	0.049	0.011	4.61E-06	17769
phylum.Verrucomicrobia.id.3982	rs7668586	C	T	0.095	0.020	4.59E-06	12090
phylum.Actinobacteria.id.400	rs67856226	A	G	0.050	0.011	4.59E-06	17989
phylum.Actinobacteria.id.400	rs16831264	G	C	0.066	0.015	4.58E-06	17989
phylum.Tenericutes.id.3919	rs6043847	C	T	-0.115	0.025	4.55E-06	11130
phylum.Actinobacteria.id.400	rs57543738	T	C	0.079	0.017	4.53E-06	17990
phylum.Firmicutes.id.1672	rs3852931	T	C	-0.048	0.010	4.53E-06	18260
phylum.Cyanobacteria.id.1500	rs17039205	A	G	-0.121	0.027	4.51E-06	6922
phylum.Tenericutes.id.3919	rs12711448	T	C	-0.068	0.015	4.51E-06	11002
phylum.Tenericutes.id.3919	rs638542	A	G	-0.068	0.015	4.49E-06	10999
phylum.Verrucomicrobia.id.3982	rs6844547	C	T	0.105	0.023	4.48E-06	11704
phylum.Verrucomicrobia.id.3982	rs114505328	T	A	0.095	0.020	4.48E-06	12090
phylum.Lentisphaerae.id.2238	rs6951588	T	C	0.107	0.023	4.47E-06	4733
phylum.Actinobacteria.id.400	rs60475440	T	C	0.050	0.011	4.42E-06	17989
phylum.Actinobacteria.id.400	rs55657163	G	A	0.051	0.011	4.41E-06	17988
phylum.Actinobacteria.id.400	rs56211644	T	C	0.079	0.017	4.40E-06	17990
phylum.Firmicutes.id.1672	rs13401441	G	T	0.097	0.019	4.38E-06	17859
phylum.Verrucomicrobia.id.3982	rs76826818	A	G	0.095	0.020	4.37E-06	12090
phylum.Proteobacteria.id.2375	rs2347698	A	G	0.050	0.011	4.37E-06	18250
phylum.Proteobacteria.id.2375	rs4803563	A	G	0.049	0.011	4.35E-06	17769
phylum.Actinobacteria.id.400	rs56369660	A	G	0.066	0.015	4.34E-06	17990
phylum.Firmicutes.id.1672	rs28651047	C	T	0.083	0.018	4.34E-06	17817
phylum.Tenericutes.id.3919	rs11783174	G	T	0.067	0.014	4.33E-06	11390
phylum.Actinobacteria.id.400	rs3739022	G	A	0.078	0.017	4.33E-06	17990
phylum.Euryarchaeota.id.55	rs34928225	C	T	0.200	0.043	4.33E-06	3483

phylum.Actinobacteria.id.400	rs57074605	T	C	0.051	0.011	4.32E-06	17989
phylum.Actinobacteria.id.400	rs58080116	A	G	0.079	0.017	4.32E-06	17990
phylum.Firmicutes.id.1672	rs11108755	T	A	0.050	0.011	4.31E-06	17859
phylum.Actinobacteria.id.400	rs60376570	G	A	0.079	0.017	4.31E-06	17990
phylum.Lentisphaerae.id.2238	rs1002941	A	G	0.108	0.023	4.31E-06	4739
phylum.Proteobacteria.id.2375	rs11083672	G	C	0.049	0.011	4.31E-06	17769
phylum.Proteobacteria.id.2375	rs11083679	G	A	0.049	0.011	4.28E-06	17769
phylum.Firmicutes.id.1672	rs6436973	C	G	0.083	0.018	4.28E-06	17817
phylum.Proteobacteria.id.2375	rs2347697	T	G	0.050	0.011	4.27E-06	18248
phylum.Cyanobacteria.id.1500	rs1010755	C	T	-0.122	0.027	4.25E-06	6922
phylum.Cyanobacteria.id.1500	rs2314810	G	C	-0.218	0.046	4.25E-06	3934
phylum.Tenericutes.id.3919	rs3768491	G	A	-0.068	0.015	4.23E-06	11002
phylum.Cyanobacteria.id.1500	rs584122	T	C	-0.152	0.033	4.23E-06	6922
phylum.Tenericutes.id.3919	rs6986129	A	T	0.066	0.014	4.19E-06	11391
phylum.Tenericutes.id.3919	rs28809811	G	T	0.068	0.015	4.12E-06	11385
phylum.Cyanobacteria.id.1500	rs13072505	A	G	-0.122	0.027	4.12E-06	6922
phylum.Proteobacteria.id.2375	rs7257768	A	G	0.049	0.011	4.11E-06	17769
phylum.Lentisphaerae.id.2238	rs35004924	A	C	0.106	0.024	4.10E-06	4705
phylum.Actinobacteria.id.400	rs9833771	C	T	0.049	0.011	4.07E-06	17990
phylum.Firmicutes.id.1672	rs7600092	C	T	0.098	0.019	4.07E-06	17859
phylum.Firmicutes.id.1672	rs13411251	T	G	0.083	0.018	4.07E-06	17817
phylum.Tenericutes.id.3919	rs6981601	C	T	0.066	0.014	4.05E-06	11391
phylum.Firmicutes.id.1672	rs2332027	A	G	-0.048	0.010	4.05E-06	18340
phylum.Cyanobacteria.id.1500	rs6780959	A	G	-0.122	0.027	4.04E-06	6921
phylum.Actinobacteria.id.400	rs584226	T	C	0.076	0.016	4.02E-06	17990
phylum.Euryarchaeota.id.55	rs9942108	G	A	-0.194	0.041	4.01E-06	3503
phylum.Proteobacteria.id.2375	rs12977541	T	C	0.049	0.011	3.99E-06	17769
phylum.Cyanobacteria.id.1500	rs145461062	C	T	-0.100	0.021	3.98E-06	7116
phylum.Proteobacteria.id.2375	rs2471952	C	T	0.049	0.011	3.95E-06	17769
phylum.Cyanobacteria.id.1500	rs6442436	C	T	-0.123	0.027	3.94E-06	6921
phylum.Actinobacteria.id.400	rs6739713	A	G	0.057	0.012	3.94E-06	17990

phylum.Verrucomicrobia.id.3982	rs17533517	C	T	0.095	0.020	3.93E-06	12090
phylum.Verrucomicrobia.id.3982	rs12411321	T	C	0.074	0.016	3.90E-06	12383
phylum.Proteobacteria.id.2375	rs2526711	A	G	0.049	0.011	3.90E-06	17769
phylum.Proteobacteria.id.2375	rs11881408	C	T	0.049	0.011	3.88E-06	17769
phylum.Actinobacteria.id.400	rs61470941	T	C	0.079	0.017	3.86E-06	17990
phylum.Tenericutes.id.3919	rs12476593	C	G	0.073	0.016	3.84E-06	11371
phylum.Proteobacteria.id.2375	rs11670025	T	G	0.049	0.011	3.83E-06	17769
phylum.Actinobacteria.id.400	rs857444	T	C	0.051	0.011	3.80E-06	17988
phylum.Proteobacteria.id.2375	rs2736151	C	T	0.049	0.011	3.80E-06	17769
phylum.Verrucomicrobia.id.3982	rs112108820	C	T	0.095	0.020	3.80E-06	12086
phylum.Lentisphaerae.id.2238	rs2731834	G	C	0.110	0.024	3.80E-06	4738
phylum.Actinobacteria.id.400	rs2874834	A	G	0.058	0.012	3.79E-06	17990
phylum.Euryarchaeota.id.55	rs62241835	T	G	-0.194	0.041	3.78E-06	3544
phylum.Cyanobacteria.id.1500	rs9748924	C	T	-0.100	0.021	3.77E-06	7116
phylum.Cyanobacteria.id.1500	rs62231951	A	T	-0.126	0.027	3.77E-06	6922
phylum.Euryarchaeota.id.55	rs62241836	C	T	-0.194	0.041	3.77E-06	3544
phylum.Euryarchaeota.id.55	rs9532770	T	C	0.126	0.027	3.74E-06	3483
phylum.Actinobacteria.id.400	rs1397793	A	G	-0.052	0.011	3.74E-06	17782
phylum.Actinobacteria.id.400	rs13402101	T	A	0.067	0.015	3.73E-06	17989
phylum.Actinobacteria.id.400	rs13399376	A	G	0.067	0.015	3.73E-06	17989
phylum.Firmicutes.id.1672	rs1968246	T	C	0.050	0.011	3.71E-06	17745
phylum.Firmicutes.id.1672	rs58181266	G	A	0.083	0.018	3.71E-06	17817
phylum.Lentisphaerae.id.2238	rs11764871	T	G	0.108	0.023	3.70E-06	4730
phylum.Actinobacteria.id.400	rs11890844	A	G	0.067	0.015	3.68E-06	17989
phylum.Cyanobacteria.id.1500	rs12486770	T	A	-0.126	0.027	3.67E-06	6922
phylum.Actinobacteria.id.400	rs4954242	A	G	0.068	0.015	3.66E-06	17990
phylum.Bacteroidetes.id.905	rs7857688	G	A	0.065	0.014	3.65E-06	17524
phylum.Tenericutes.id.3919	rs12566890	G	T	-0.101	0.023	3.65E-06	11371
phylum.Bacteroidetes.id.905	rs73510188	G	A	-0.111	0.024	3.63E-06	10869
phylum.Bacteroidetes.id.905	rs73510190	G	C	-0.111	0.024	3.63E-06	10869
phylum.Proteobacteria.id.2375	rs6509051	A	G	0.049	0.011	3.62E-06	17769

phylum.Cyanobacteria.id.1500	rs2553290	T	A	0.096	0.020	3.61E-06	7113
phylum.Tenericutes.id.3919	rs10094910	T	C	0.067	0.014	3.61E-06	11390
phylum.Proteobacteria.id.2375	rs79445780	A	G	-0.116	0.025	3.58E-06	13850
phylum.Firmicutes.id.1672	rs6436974	G	A	0.083	0.018	3.57E-06	17817
phylum.Verrucomicrobia.id.3982	rs113634144	G	T	0.068	0.015	3.56E-06	12375
phylum.Verrucomicrobia.id.3982	rs1491245	T	G	0.096	0.020	3.50E-06	12090
phylum.Actinobacteria.id.400	rs13006808	A	C	0.053	0.011	3.50E-06	17984
phylum.Verrucomicrobia.id.3982	rs76430504	C	T	-0.118	0.025	3.50E-06	11624
phylum.Tenericutes.id.3919	rs12676593	A	G	0.067	0.014	3.49E-06	11390
phylum.Bacteroidetes.id.905	rs73846124	G	A	-0.061	0.013	3.48E-06	18335
phylum.Actinobacteria.id.400	rs4954633	C	T	0.087	0.019	3.46E-06	15214
phylum.Proteobacteria.id.2375	rs55717966	G	C	0.049	0.011	3.46E-06	17769
phylum.Proteobacteria.id.2375	rs11666257	A	G	0.050	0.011	3.45E-06	17769
phylum.Tenericutes.id.3919	rs13015145	G	A	0.071	0.015	3.45E-06	11392
phylum.Euryarchaeota.id.55	rs12711690	G	A	-0.108	0.023	3.44E-06	3857
phylum.Tenericutes.id.3919	rs59979442	A	G	0.067	0.014	3.43E-06	11390
phylum.Tenericutes.id.3919	rs7011095	T	A	0.068	0.014	3.41E-06	11390
phylum.Verrucomicrobia.id.3982	rs12908520	A	G	0.059	0.013	3.40E-06	12380
phylum.Tenericutes.id.3919	rs10090964	A	T	0.067	0.014	3.39E-06	11391
phylum.Verrucomicrobia.id.3982	rs2035815	T	C	0.096	0.020	3.39E-06	12090
phylum.Bacteroidetes.id.905	rs34986288	G	A	-0.062	0.014	3.38E-06	18330
phylum.Actinobacteria.id.400	rs3769011	A	T	0.080	0.017	3.37E-06	17990
phylum.Proteobacteria.id.2375	rs7246141	G	C	0.049	0.011	3.35E-06	17769
phylum.Firmicutes.id.1672	rs1374597	G	T	0.093	0.018	3.34E-06	18340
phylum.Actinobacteria.id.400	rs6709763	C	A	0.067	0.015	3.33E-06	17990
phylum.Firmicutes.id.1672	rs11683620	A	G	0.084	0.018	3.31E-06	17816
phylum.Verrucomicrobia.id.3982	rs1491246	A	T	0.096	0.020	3.31E-06	12090
phylum.Verrucomicrobia.id.3982	rs111664214	C	T	0.096	0.020	3.27E-06	12089
phylum.Firmicutes.id.1672	rs7557870	A	T	0.099	0.019	3.26E-06	17859
phylum.Tenericutes.id.3919	rs72901605	C	T	-0.084	0.018	3.26E-06	10526
phylum.Tenericutes.id.3919	rs7009374	C	T	0.067	0.014	3.26E-06	11391

phylum.Actinobacteria.id.400	rs4954226	T	C	0.068	0.015	3.22E-06	17990
phylum.Actinobacteria.id.400	rs4954445	T	A	0.080	0.017	3.22E-06	17990
phylum.Proteobacteria.id.2375	rs7249825	G	T	0.050	0.011	3.21E-06	17769
phylum.Cyanobacteria.id.1500	rs12493406	C	T	-0.127	0.027	3.21E-06	6922
phylum.Actinobacteria.id.400	rs2322445	T	A	0.067	0.015	3.21E-06	17990
phylum.Proteobacteria.id.2375	rs4029163	A	C	0.050	0.011	3.20E-06	17769
phylum.Verrucomicrobia.id.3982	rs1491237	A	G	0.096	0.020	3.20E-06	12090
phylum.Cyanobacteria.id.1500	rs9863760	C	T	-0.121	0.026	3.18E-06	6921
phylum.Verrucomicrobia.id.3982	rs745074	T	A	0.096	0.020	3.15E-06	12090
phylum.Tenericutes.id.3919	rs10113750	C	T	0.067	0.014	3.15E-06	11392
phylum.Tenericutes.id.3919	rs10099912	G	T	0.068	0.014	3.14E-06	11390
phylum.Bacteroidetes.id.905	rs71322865	C	T	-0.060	0.013	3.13E-06	18335
phylum.Bacteroidetes.id.905	rs7157380	G	C	0.098	0.021	3.13E-06	17298
phylum.Proteobacteria.id.2375	rs7246855	T	C	0.050	0.011	3.13E-06	17769
phylum.Proteobacteria.id.2375	rs11671245	T	C	0.050	0.011	3.12E-06	17769
phylum.Tenericutes.id.3919	rs12335008	T	A	0.068	0.014	3.08E-06	11390
phylum.Actinobacteria.id.400	rs55912948	A	G	0.051	0.011	3.08E-06	17989
phylum.Actinobacteria.id.400	rs1551497	T	C	0.068	0.015	3.06E-06	17989
phylum.Bacteroidetes.id.905	rs1325597	G	T	-0.055	0.012	3.05E-06	18335
phylum.Bacteroidetes.id.905	rs13291434	C	T	0.071	0.015	3.01E-06	17401
phylum.Proteobacteria.id.2375	rs11083677	C	T	0.050	0.011	3.01E-06	17769
phylum.Tenericutes.id.3919	rs9297995	C	T	0.067	0.014	3.00E-06	11391
phylum.Verrucomicrobia.id.3982	rs745075	T	C	0.096	0.020	2.98E-06	12090
phylum.Bacteroidetes.id.905	rs62575403	T	C	0.145	0.031	2.96E-06	9669
phylum.Proteobacteria.id.2375	rs7246428	G	T	0.050	0.011	2.93E-06	17769
phylum.Verrucomicrobia.id.3982	rs41275715	C	T	0.096	0.020	2.92E-06	12090
phylum.Actinobacteria.id.400	rs62287787	C	T	0.052	0.011	2.89E-06	17988
phylum.Bacteroidetes.id.905	rs2875575	G	C	-0.112	0.024	2.88E-06	11350
phylum.Cyanobacteria.id.1500	rs76531781	C	T	-0.232	0.049	2.87E-06	3658
phylum.Bacteroidetes.id.905	rs73510192	T	C	-0.113	0.024	2.87E-06	10869
phylum.Bacteroidetes.id.905	rs60475411	T	C	-0.061	0.013	2.86E-06	18324

phylum.Verrucomicrobia.id.3982	rs112048442	G	A	0.107	0.023	2.84E-06	11701
phylum.Tenericutes.id.3919	rs10099153	C	G	0.068	0.014	2.83E-06	11389
phylum.Firmicutes.id.1672	rs7975768	G	C	0.051	0.011	2.82E-06	17859
phylum.Verrucomicrobia.id.3982	rs6842339	T	G	0.107	0.023	2.82E-06	11704
phylum.Actinobacteria.id.400	rs2164331	C	T	0.079	0.017	2.82E-06	17990
phylum.Lentisphaerae.id.2238	rs112022900	G	A	0.218	0.046	2.82E-06	4096
phylum.Verrucomicrobia.id.3982	rs6532823	C	A	0.097	0.020	2.80E-06	12090
phylum.Actinobacteria.id.400	rs60433564	A	C	0.090	0.020	2.80E-06	15214
phylum.Firmicutes.id.1672	rs10169367	C	T	0.092	0.018	2.78E-06	18340
phylum.Lentisphaerae.id.2238	rs45621736	G	A	0.218	0.046	2.76E-06	4097
phylum.Tenericutes.id.3919	rs72647435	G	T	0.068	0.014	2.76E-06	11390
phylum.Cyanobacteria.id.1500	rs6773199	G	A	-0.124	0.026	2.75E-06	6920
phylum.Bacteroidetes.id.905	rs17085791	G	C	-0.112	0.024	2.74E-06	11350
phylum.Euryarchaeota.id.55	rs73031978	G	C	-0.198	0.041	2.74E-06	3501
phylum.Verrucomicrobia.id.3982	rs75487972	T	C	0.097	0.020	2.74E-06	12090
phylum.Verrucomicrobia.id.3982	rs2035814	A	G	0.097	0.020	2.73E-06	12090
phylum.Actinobacteria.id.400	rs16855656	A	G	0.075	0.016	2.72E-06	17990
phylum.Verrucomicrobia.id.3982	rs74399905	T	A	0.107	0.023	2.71E-06	11704
phylum.Tenericutes.id.3919	rs13027493	T	A	0.071	0.015	2.71E-06	11391
phylum.Bacteroidetes.id.905	rs1996068	A	G	-0.062	0.013	2.70E-06	18333
phylum.Cyanobacteria.id.1500	rs13062781	G	A	-0.121	0.026	2.70E-06	6919
phylum.Bacteroidetes.id.905	rs1888899	C	T	-0.113	0.024	2.70E-06	11350
phylum.Actinobacteria.id.400	rs74266324	G	A	0.063	0.014	2.70E-06	17782
phylum.Verrucomicrobia.id.3982	rs117107102	G	A	0.204	0.043	2.68E-06	5071
phylum.Actinobacteria.id.400	rs6705610	T	G	0.067	0.015	2.68E-06	17990
phylum.Actinobacteria.id.400	rs8047955	G	A	0.052	0.011	2.66E-06	17980
phylum.Verrucomicrobia.id.3982	rs7698547	C	T	0.097	0.020	2.66E-06	12090
phylum.Actinobacteria.id.400	rs57829242	A	G	0.068	0.015	2.63E-06	17990
phylum.Tenericutes.id.3919	rs1583269	C	G	0.072	0.015	2.62E-06	11390
phylum.Actinobacteria.id.400	rs7605229	C	T	0.068	0.015	2.62E-06	17990
phylum.Tenericutes.id.3919	rs55774738	T	C	0.067	0.014	2.61E-06	11391

phylum.Bacteroidetes.id.905	rs13291169	G	C	0.070	0.015	2.61E-06	17514
phylum.Verrucomicrobia.id.3982	rs111441437	T	A	0.097	0.020	2.60E-06	12090
phylum.Tenericutes.id.3919	rs7825996	A	T	0.068	0.014	2.60E-06	11390
phylum.Tenericutes.id.3919	rs7014398	C	T	0.068	0.014	2.55E-06	11392
phylum.Bacteroidetes.id.905	rs13097740	G	A	-0.061	0.013	2.54E-06	18333
phylum.Verrucomicrobia.id.3982	rs113911713	T	C	0.097	0.020	2.51E-06	12090
phylum.Verrucomicrobia.id.3982	rs76877520	G	A	0.097	0.020	2.49E-06	12090
phylum.Bacteroidetes.id.905	rs35665203	T	C	-0.062	0.013	2.49E-06	18335
phylum.Verrucomicrobia.id.3982	rs112520120	T	C	0.097	0.020	2.48E-06	12090
phylum.Bacteroidetes.id.905	rs6791217	G	T	-0.062	0.013	2.48E-06	18333
phylum.Proteobacteria.id.2375	rs9797816	G	A	0.050	0.011	2.45E-06	17769
phylum.Bacteroidetes.id.905	rs59082732	T	G	-0.113	0.024	2.45E-06	11350
phylum.Bacteroidetes.id.905	rs17085785	C	T	-0.113	0.024	2.43E-06	11350
phylum.Tenericutes.id.3919	rs6867857	C	A	0.122	0.027	2.42E-06	10391
phylum.Actinobacteria.id.400	rs78141345	G	A	0.082	0.017	2.39E-06	17990
phylum.Tenericutes.id.3919	rs28429491	C	T	0.068	0.014	2.39E-06	11392
phylum.Verrucomicrobia.id.3982	rs10516447	A	G	0.108	0.023	2.38E-06	11704
phylum.Bacteroidetes.id.905	rs17085765	G	C	-0.113	0.024	2.38E-06	11350
phylum.Actinobacteria.id.400	rs6430601	G	T	0.070	0.015	2.38E-06	17986
phylum.Cyanobacteria.id.1500	rs9883109	T	C	-0.126	0.027	2.38E-06	6922
phylum.Actinobacteria.id.400	rs1900741	C	T	0.063	0.013	2.37E-06	17990
phylum.Euryarchaeota.id.55	rs73457410	G	A	0.208	0.043	2.37E-06	3661
phylum.Proteobacteria.id.2375	rs7246771	G	C	0.050	0.011	2.37E-06	17769
phylum.Proteobacteria.id.2375	rs10853762	T	A	0.050	0.011	2.36E-06	17769
phylum.Bacteroidetes.id.905	rs74090642	A	G	-0.113	0.024	2.35E-06	11350
phylum.Actinobacteria.id.400	rs11897217	C	T	0.067	0.015	2.35E-06	17990
phylum.Actinobacteria.id.400	rs55634455	T	C	0.082	0.017	2.34E-06	17990
phylum.Actinobacteria.id.400	rs17293519	A	G	0.068	0.015	2.30E-06	17990
phylum.Bacteroidetes.id.905	rs2183908	T	C	-0.112	0.024	2.30E-06	11350
phylum.Firmicutes.id.1672	rs13386595	A	G	0.085	0.018	2.29E-06	17813
phylum.Actinobacteria.id.400	rs6721838	A	G	0.068	0.015	2.28E-06	17990

phylum.Tenericutes.id.3919	rs7590919	G	A	0.072	0.015	2.25E-06	11387
phylum.Actinobacteria.id.400	rs10496736	C	G	0.090	0.020	2.24E-06	15214
phylum.Tenericutes.id.3919	rs7009248	A	G	0.068	0.014	2.24E-06	11392
phylum.Bacteroidetes.id.905	rs1555070	C	T	-0.056	0.012	2.24E-06	18330
phylum.Bacteroidetes.id.905	rs17085776	A	G	-0.114	0.024	2.24E-06	11350
phylum.Verrucomicrobia.id.3982	rs11729256	C	T	0.070	0.015	2.23E-06	12377
phylum.Actinobacteria.id.400	rs7594509	G	T	0.068	0.015	2.23E-06	17990
phylum.Tenericutes.id.3919	rs7817515	T	G	0.068	0.014	2.23E-06	11392
phylum.Tenericutes.id.3919	rs6471729	G	A	0.068	0.014	2.22E-06	11392
phylum.Bacteroidetes.id.905	rs17085756	G	A	-0.113	0.024	2.21E-06	11350
phylum.Tenericutes.id.3919	rs13025440	T	G	0.075	0.016	2.21E-06	11374
phylum.Verrucomicrobia.id.3982	rs45598138	A	C	-0.144	0.031	2.19E-06	9932
phylum.Verrucomicrobia.id.3982	rs76819189	C	T	0.098	0.020	2.19E-06	12090
phylum.Bacteroidetes.id.905	rs6777119	T	C	-0.062	0.013	2.13E-06	18335
phylum.Actinobacteria.id.400	rs6706466	A	G	0.068	0.015	2.13E-06	17990
phylum.Tenericutes.id.3919	rs28650441	A	C	0.068	0.014	2.13E-06	11392
phylum.Tenericutes.id.3919	rs13024040	C	T	0.074	0.016	2.13E-06	11374
phylum.Bacteroidetes.id.905	rs75808613	G	A	-0.113	0.024	2.12E-06	11350
phylum.Bacteroidetes.id.905	rs78745799	G	T	-0.113	0.024	2.12E-06	11350
phylum.Tenericutes.id.3919	rs1991359	A	G	0.068	0.014	2.12E-06	11392
phylum.Actinobacteria.id.400	rs13035345	G	C	0.053	0.011	2.12E-06	17990
phylum.Proteobacteria.id.2375	rs12976403	G	A	0.051	0.011	2.04E-06	17769
phylum.Tenericutes.id.3919	rs11776003	G	A	0.068	0.014	2.03E-06	11392
phylum.Bacteroidetes.id.905	rs17026797	G	T	-0.062	0.013	2.02E-06	18333
phylum.Bacteroidetes.id.905	rs60954548	A	G	-0.114	0.024	2.01E-06	11350
phylum.Verrucomicrobia.id.3982	rs79194015	A	T	0.098	0.020	2.00E-06	12090
phylum.Actinobacteria.id.400	rs11884903	T	C	0.069	0.015	2.00E-06	17990
phylum.Bacteroidetes.id.905	rs1022523	A	G	-0.056	0.012	2.00E-06	18334
phylum.Actinobacteria.id.400	rs60350840	A	G	0.069	0.015	1.99E-06	17990
phylum.Tenericutes.id.3919	rs16923564	T	C	0.068	0.014	1.99E-06	11392
phylum.Verrucomicrobia.id.3982	rs112812594	G	A	0.109	0.023	1.97E-06	11703

phylum.Actinobacteria.id.400	rs10174944	C	T	0.069	0.015	1.96E-06	17989
phylum.Bacteroidetes.id.905	rs35176045	C	T	-0.062	0.013	1.96E-06	18335
phylum.Bacteroidetes.id.905	rs1888900	T	C	-0.114	0.024	1.95E-06	11350
phylum.Bacteroidetes.id.905	rs13060907	G	A	-0.062	0.013	1.95E-06	18333
phylum.Bacteroidetes.id.905	rs17085809	A	G	-0.114	0.024	1.95E-06	11350
phylum.Firmicutes.id.1672	rs13421739	G	C	0.094	0.018	1.95E-06	18340
phylum.Actinobacteria.id.400	rs6729961	T	G	0.092	0.020	1.93E-06	15214
phylum.Bacteroidetes.id.905	rs7491419	T	G	-0.114	0.024	1.93E-06	11350
phylum.Tenericutes.id.3919	rs16923562	A	G	0.069	0.014	1.92E-06	11392
phylum.Tenericutes.id.3919	rs12680996	T	C	0.069	0.014	1.92E-06	11392
phylum.Lentisphaerae.id.2238	rs77599476	G	A	0.230	0.048	1.90E-06	3726
phylum.Actinobacteria.id.400	rs1482581	T	C	0.053	0.011	1.90E-06	17990
phylum.Bacteroidetes.id.905	rs1014718	G	A	-0.057	0.012	1.88E-06	18335
phylum.Euryarchaeota.id.55	rs3923545	G	C	0.209	0.044	1.88E-06	3661
phylum.Actinobacteria.id.400	rs11897204	T	C	0.069	0.015	1.87E-06	17990
phylum.Bacteroidetes.id.905	rs7320487	T	C	-0.114	0.024	1.86E-06	11350
phylum.Bacteroidetes.id.905	rs7319197	A	G	-0.114	0.024	1.86E-06	11350
phylum.Actinobacteria.id.400	rs7419356	T	A	0.054	0.011	1.83E-06	17990
phylum.Bacteroidetes.id.905	rs17026821	T	C	-0.063	0.013	1.82E-06	18335
phylum.Bacteroidetes.id.905	rs61289215	C	T	-0.115	0.024	1.81E-06	11350
phylum.Bacteroidetes.id.905	rs34046877	T	C	-0.062	0.013	1.81E-06	18324
phylum.Actinobacteria.id.400	rs2305248	A	G	0.068	0.015	1.79E-06	17990
phylum.Bacteroidetes.id.905	rs13100590	T	C	-0.063	0.013	1.77E-06	18335
phylum.Verrucomicrobia.id.3982	rs4242783	A	G	0.069	0.015	1.75E-06	12104
phylum.Euryarchaeota.id.55	rs11147839	G	A	0.211	0.044	1.75E-06	3662
phylum.Tenericutes.id.3919	rs10102709	C	T	0.069	0.014	1.75E-06	11392
phylum.Actinobacteria.id.400	rs12465088	G	A	0.054	0.011	1.74E-06	17989
phylum.Bacteroidetes.id.905	rs60814075	C	T	-0.114	0.024	1.74E-06	11350
phylum.Bacteroidetes.id.905	rs74090626	A	G	-0.114	0.024	1.73E-06	11350
phylum.Verrucomicrobia.id.3982	rs79606973	T	A	0.099	0.020	1.73E-06	12090
phylum.Tenericutes.id.3919	rs4325706	C	T	0.073	0.015	1.73E-06	11392

phylum.Actinobacteria.id.400	rs13413872	G	T	0.069	0.015	1.72E-06	17990
phylum.Actinobacteria.id.400	rs62448870	A	G	-0.051	0.011	1.72E-06	17782
phylum.Bacteroidetes.id.905	rs7337151	A	C	-0.114	0.024	1.71E-06	11350
phylum.Bacteroidetes.id.905	rs2032750	C	T	-0.051	0.011	1.71E-06	17854
phylum.Bacteroidetes.id.905	rs11871360	A	G	-0.204	0.044	1.70E-06	3350
phylum.Actinobacteria.id.400	rs6749119	C	G	0.069	0.015	1.69E-06	17990
phylum.Bacteroidetes.id.905	rs34922683	G	T	-0.063	0.013	1.67E-06	18335
phylum.Firmicutes.id.1672	rs28814056	G	C	0.086	0.018	1.67E-06	17814
phylum.Actinobacteria.id.400	rs62168934	A	G	0.070	0.015	1.66E-06	17990
phylum.Bacteroidetes.id.905	rs60869989	G	A	-0.115	0.024	1.66E-06	11350
phylum.Verrucomicrobia.id.3982	rs111303866	C	A	0.110	0.023	1.65E-06	11703
phylum.Verrucomicrobia.id.3982	rs112707021	G	A	0.110	0.023	1.65E-06	11703
phylum.Actinobacteria.id.400	rs6760553	A	G	0.069	0.015	1.65E-06	17990
phylum.Bacteroidetes.id.905	rs3946805	A	G	-0.063	0.013	1.64E-06	18335
phylum.Actinobacteria.id.400	rs62160866	A	G	0.110	0.024	1.64E-06	10790
phylum.Actinobacteria.id.400	rs13402112	A	C	0.070	0.015	1.64E-06	17990
phylum.Bacteroidetes.id.905	rs71322864	C	A	-0.063	0.013	1.63E-06	18324
phylum.Actinobacteria.id.400	rs4480940	T	C	0.054	0.011	1.62E-06	17990
phylum.Verrucomicrobia.id.3982	rs17533489	T	C	0.099	0.020	1.61E-06	12090
phylum.Bacteroidetes.id.905	rs73512626	C	A	-0.115	0.024	1.61E-06	11350
phylum.Tenericutes.id.3919	rs12674568	A	G	0.069	0.014	1.60E-06	11392
phylum.Tenericutes.id.3919	rs10111506	A	T	0.069	0.014	1.60E-06	11392
phylum.Euryarchaeota.id.55	rs9594530	T	C	0.211	0.044	1.60E-06	3661
phylum.Actinobacteria.id.400	rs11888951	T	C	0.070	0.015	1.60E-06	17990
phylum.Bacteroidetes.id.905	rs74090631	A	G	-0.115	0.024	1.60E-06	11350
phylum.Bacteroidetes.id.905	rs73510184	C	T	-0.115	0.024	1.60E-06	11350
phylum.Actinobacteria.id.400	rs56174523	A	C	0.070	0.015	1.60E-06	17990
phylum.Verrucomicrobia.id.3982	rs2903202	A	T	0.099	0.020	1.59E-06	12090
phylum.Bacteroidetes.id.905	rs11916939	G	A	-0.063	0.013	1.58E-06	18335
phylum.Bacteroidetes.id.905	rs12496485	G	A	-0.063	0.013	1.56E-06	18335
phylum.Tenericutes.id.3919	rs74603314	C	T	0.222	0.046	1.56E-06	4499

phylum.Actinobacteria.id.400	rs16831498	G	C	0.070	0.015	1.55E-06	17990
phylum.Proteobacteria.id.2375	rs12150865	T	C	0.051	0.011	1.54E-06	17769
phylum.Bacteroidetes.id.905	rs2346324	A	G	-0.063	0.013	1.54E-06	18335
phylum.Actinobacteria.id.400	rs7601683	C	T	0.070	0.015	1.53E-06	17990
phylum.Bacteroidetes.id.905	rs56335733	C	T	-0.116	0.024	1.52E-06	11350
phylum.Actinobacteria.id.400	rs3754692	T	C	0.060	0.012	1.52E-06	17990
phylum.Actinobacteria.id.400	rs10460330	A	G	0.054	0.011	1.52E-06	17990
phylum.Actinobacteria.id.400	rs7565149	T	A	0.070	0.015	1.51E-06	17990
phylum.Actinobacteria.id.400	rs6742013	T	C	0.069	0.015	1.51E-06	17990
phylum.Euryarchaeota.id.55	rs4848970	G	T	0.115	0.024	1.51E-06	3862
phylum.Lentisphaerae.id.2238	rs2825714	G	A	-0.138	0.029	1.50E-06	4739
phylum.Bacteroidetes.id.905	rs61070599	C	T	-0.115	0.024	1.50E-06	11350
phylum.Actinobacteria.id.400	rs62448887	A	C	-0.052	0.011	1.48E-06	17984
phylum.Bacteroidetes.id.905	rs35532963	C	G	-0.063	0.013	1.48E-06	18324
phylum.Bacteroidetes.id.905	rs6794198	C	T	-0.063	0.013	1.48E-06	18324
phylum.Bacteroidetes.id.905	rs2346325	A	G	-0.063	0.013	1.48E-06	18335
phylum.Verrucomicrobia.id.3982	rs6837699	G	A	0.111	0.023	1.46E-06	11703
phylum.Tenericutes.id.3919	rs1583268	G	A	0.073	0.015	1.45E-06	11390
phylum.Bacteroidetes.id.905	rs1040016	G	T	-0.063	0.013	1.44E-06	18335
phylum.Bacteroidetes.id.905	rs60722059	A	G	-0.115	0.024	1.43E-06	11350
phylum.Bacteroidetes.id.905	rs907713	A	C	-0.063	0.013	1.42E-06	18335
phylum.Bacteroidetes.id.905	rs7546249	A	T	-0.057	0.012	1.42E-06	18334
phylum.Actinobacteria.id.400	rs7565268	T	C	0.070	0.015	1.42E-06	17990
phylum.Bacteroidetes.id.905	rs60660711	G	A	-0.115	0.024	1.41E-06	11348
phylum.Actinobacteria.id.400	rs10186594	A	G	0.070	0.015	1.41E-06	17990
phylum.Actinobacteria.id.400	rs13409400	A	C	0.070	0.015	1.41E-06	17990
phylum.Actinobacteria.id.400	rs10182750	T	C	0.070	0.015	1.38E-06	17990
phylum.Bacteroidetes.id.905	rs34519192	A	G	-0.063	0.013	1.38E-06	18324
phylum.Actinobacteria.id.400	rs13008147	A	G	-0.057	0.012	1.37E-06	16862
phylum.Bacteroidetes.id.905	rs73510178	G	A	-0.115	0.024	1.37E-06	11350
phylum.Actinobacteria.id.400	rs4954215	G	A	0.070	0.015	1.37E-06	17990

phylum.Actinobacteria.id.400	rs7577258	G	A	0.070	0.015	1.36E-06	17990
phylum.Firmicutes.id.1672	rs3792068	A	G	0.087	0.018	1.36E-06	17812
phylum.Cyanobacteria.id.1500	rs789061	G	A	-0.102	0.021	1.36E-06	7117
phylum.Verrucomicrobia.id.3982	rs79837054	T	C	0.111	0.023	1.36E-06	11704
phylum.Actinobacteria.id.400	rs4954217	C	T	0.070	0.015	1.34E-06	17990
phylum.Actinobacteria.id.400	rs7601696	C	A	0.070	0.015	1.34E-06	17990
phylum.Actinobacteria.id.400	rs12478902	T	C	0.080	0.016	1.34E-06	17988
phylum.Verrucomicrobia.id.3982	rs76564762	C	T	0.111	0.023	1.32E-06	11703
phylum.Actinobacteria.id.400	rs62448871	A	C	-0.052	0.011	1.32E-06	17980
phylum.Actinobacteria.id.400	rs6430593	G	A	0.080	0.016	1.32E-06	17990
phylum.Actinobacteria.id.400	rs55888705	G	A	0.053	0.011	1.31E-06	17988
phylum.Actinobacteria.id.400	rs4953946	T	G	0.070	0.015	1.30E-06	17990
phylum.Actinobacteria.id.400	rs3754690	C	T	0.084	0.017	1.29E-06	17990
phylum.Bacteroidetes.id.905	rs73510191	A	C	-0.116	0.024	1.28E-06	11347
phylum.Cyanobacteria.id.1500	rs9864035	G	A	-0.129	0.027	1.28E-06	6920
phylum.Bacteroidetes.id.905	rs12938514	G	A	-0.201	0.042	1.27E-06	3350
phylum.Bacteroidetes.id.905	rs73846120	A	G	-0.064	0.013	1.26E-06	18335
phylum.Euryarchaeota.id.55	rs73457427	G	A	0.213	0.044	1.26E-06	3660
phylum.Actinobacteria.id.400	rs2017831	C	T	0.070	0.015	1.25E-06	17990
phylum.Bacteroidetes.id.905	rs1996069	T	C	-0.064	0.013	1.25E-06	18335
phylum.Actinobacteria.id.400	rs4954216	G	A	0.070	0.015	1.25E-06	17990
phylum.Actinobacteria.id.400	rs921859	A	G	0.070	0.015	1.23E-06	17990
phylum.Actinobacteria.id.400	rs56067372	C	T	0.082	0.017	1.23E-06	17990
phylum.Verrucomicrobia.id.3982	rs12416161	C	T	0.078	0.016	1.23E-06	12381
phylum.Bacteroidetes.id.905	rs73975615	A	G	-0.207	0.044	1.20E-06	3350
phylum.Actinobacteria.id.400	rs10167809	C	T	0.070	0.015	1.19E-06	17990
phylum.Actinobacteria.id.400	rs10167884	C	T	0.070	0.015	1.19E-06	17990
phylum.Actinobacteria.id.400	rs4953948	T	G	0.070	0.015	1.19E-06	17990
phylum.Actinobacteria.id.400	rs7603805	A	G	0.070	0.015	1.19E-06	17990
phylum.Bacteroidetes.id.905	rs11916046	C	A	-0.064	0.013	1.19E-06	18335
phylum.Actinobacteria.id.400	rs1842796	G	A	0.054	0.011	1.18E-06	17990

phylum.Bacteroidetes.id.905	rs36076607	T	C	-0.063	0.013	1.17E-06	18335
phylum.Actinobacteria.id.400	rs2016636	G	A	0.058	0.012	1.17E-06	17990
phylum.Verrucomicrobia.id.3982	rs111311092	A	T	0.112	0.023	1.15E-06	11703
phylum.Actinobacteria.id.400	rs4953947	A	C	0.070	0.015	1.15E-06	17990
phylum.Actinobacteria.id.400	rs4530308	T	C	0.055	0.011	1.15E-06	17990
phylum.Actinobacteria.id.400	rs10167901	C	T	0.071	0.015	1.14E-06	17990
phylum.Actinobacteria.id.400	rs62448869	A	T	-0.052	0.011	1.14E-06	17782
phylum.Lentisphaerae.id.2238	rs11770843	T	C	0.112	0.023	1.14E-06	4709
phylum.Actinobacteria.id.400	rs62168942	T	C	0.071	0.015	1.13E-06	17990
phylum.Cyanobacteria.id.1500	rs789073	G	A	-0.102	0.021	1.13E-06	7117
phylum.Actinobacteria.id.400	rs12465650	T	G	0.055	0.011	1.12E-06	17990
phylum.Bacteroidetes.id.905	rs71322866	A	C	-0.064	0.013	1.11E-06	18335
phylum.Bacteroidetes.id.905	rs11920519	A	G	-0.064	0.013	1.11E-06	18332
phylum.Verrucomicrobia.id.3982	rs11252894	C	A	0.078	0.016	1.11E-06	12381
phylum.Actinobacteria.id.400	rs62168941	C	T	0.071	0.015	1.10E-06	17990
phylum.Bacteroidetes.id.905	rs4474577	G	A	-0.119	0.024	1.10E-06	10869
phylum.Tenericutes.id.3919	rs10108398	A	G	0.077	0.015	1.09E-06	10932
phylum.Actinobacteria.id.400	rs4954221	G	A	0.070	0.015	1.08E-06	17990
phylum.Verrucomicrobia.id.3982	rs7693865	C	T	0.112	0.023	1.07E-06	11704
phylum.Actinobacteria.id.400	rs7581382	T	C	-0.061	0.014	1.06E-06	16862
phylum.Bacteroidetes.id.905	rs2225529	C	T	-0.117	0.024	1.05E-06	11342
phylum.Bacteroidetes.id.905	rs12486528	G	A	-0.065	0.013	1.05E-06	18335
phylum.Euryarchaeota.id.55	rs76029318	C	T	0.215	0.044	1.05E-06	3660
phylum.Actinobacteria.id.400	rs3213871	C	T	0.082	0.017	1.05E-06	17990
phylum.Bacteroidetes.id.905	rs17085738	T	G	-0.117	0.024	1.04E-06	11350
phylum.Bacteroidetes.id.905	rs17085746	A	G	-0.117	0.024	1.04E-06	11350
phylum.Verrucomicrobia.id.3982	rs6832927	C	A	0.113	0.023	1.03E-06	11703
phylum.Actinobacteria.id.400	rs4954214	C	T	0.071	0.015	1.03E-06	17990
phylum.Bacteroidetes.id.905	rs7338117	A	G	-0.117	0.024	1.02E-06	11350
phylum.Verrucomicrobia.id.3982	rs113653192	C	T	0.113	0.023	1.01E-06	11703
phylum.Actinobacteria.id.400	rs309132	C	G	0.082	0.016	9.98E-07	17990

phylum.Euryarchaeota.id.55	rs1869500	A	C	-0.114	0.023	9.87E-07	3858
phylum.Actinobacteria.id.400	rs1942055	G	C	0.052	0.011	9.78E-07	17983
phylum.Actinobacteria.id.400	rs13410870	G	A	0.071	0.015	9.75E-07	17990
phylum.Actinobacteria.id.400	rs2322725	T	C	0.080	0.016	9.73E-07	17990
phylum.Actinobacteria.id.400	rs16832200	T	C	0.080	0.016	9.71E-07	17990
phylum.Tenericutes.id.3919	rs67374027	T	A	0.075	0.015	9.70E-07	11389
phylum.Actinobacteria.id.400	rs13427494	G	A	0.071	0.015	9.66E-07	17990
phylum.Lentisphaerae.id.2238	rs62570196	T	C	-0.217	0.044	9.64E-07	3716
phylum.Actinobacteria.id.400	rs16832138	G	A	0.083	0.017	9.59E-07	17990
phylum.Actinobacteria.id.400	rs6738563	G	T	0.051	0.011	9.58E-07	17984
phylum.Tenericutes.id.3919	rs11890098	G	A	0.074	0.015	9.57E-07	11392
phylum.Bacteroidetes.id.905	rs7629132	C	T	-0.064	0.013	9.39E-07	18326
phylum.Actinobacteria.id.400	rs16832156	G	A	0.081	0.016	9.33E-07	17989
phylum.Cyanobacteria.id.1500	rs66464540	G	A	-0.104	0.021	9.32E-07	7110
phylum.Firmicutes.id.1672	rs112334273	A	G	0.063	0.013	9.26E-07	18217
phylum.Euryarchaeota.id.55	rs7601415	T	A	-0.114	0.023	8.97E-07	3858
phylum.Actinobacteria.id.400	rs12105842	T	C	0.055	0.011	8.92E-07	17990
phylum.Actinobacteria.id.400	rs7608980	G	A	0.083	0.017	8.75E-07	17990
phylum.Actinobacteria.id.400	rs10209482	A	C	0.071	0.015	8.74E-07	17990
phylum.Verrucomicrobia.id.3982	rs2602429	T	C	0.076	0.015	8.71E-07	12104
phylum.Bacteroidetes.id.905	rs7611599	C	T	-0.065	0.013	8.43E-07	18335
phylum.Actinobacteria.id.400	rs58697996	G	A	0.071	0.015	8.16E-07	17990
phylum.Verrucomicrobia.id.3982	rs6832119	A	G	0.114	0.023	8.09E-07	11703
phylum.Actinobacteria.id.400	rs6741481	A	G	0.071	0.015	8.06E-07	17990
phylum.Bacteroidetes.id.905	rs74937713	A	T	-0.065	0.013	8.03E-07	18327
phylum.Actinobacteria.id.400	rs6752519	C	T	0.083	0.016	7.79E-07	17990
phylum.Actinobacteria.id.400	rs3820794	T	C	0.063	0.012	7.67E-07	17990
phylum.Proteobacteria.id.2375	rs2532663	A	G	-0.126	0.026	7.47E-07	13013
phylum.Actinobacteria.id.400	rs4349285	T	G	0.056	0.011	7.41E-07	17990
phylum.Firmicutes.id.1672	rs10209007	C	G	0.089	0.018	7.40E-07	17812
phylum.Actinobacteria.id.400	rs11679933	T	G	0.057	0.011	7.38E-07	17983

phylum.Actinobacteria.id.400	rs2164332	G	C	0.081	0.016	7.37E-07	17990
phylum.Actinobacteria.id.400	rs2290518	G	A	0.072	0.015	7.22E-07	17990
phylum.Actinobacteria.id.400	rs13389481	C	A	0.073	0.015	7.06E-07	17987
phylum.Bacteroidetes.id.905	rs35800684	G	A	-0.065	0.013	6.99E-07	18335
phylum.Actinobacteria.id.400	rs12989104	G	T	0.056	0.011	6.93E-07	17983
phylum.Actinobacteria.id.400	rs309126	T	C	0.079	0.016	6.77E-07	17990
phylum.Firmicutes.id.1672	rs3792064	A	G	0.090	0.018	6.75E-07	17812
phylum.Actinobacteria.id.400	rs74037001	A	G	-0.082	0.017	6.71E-07	17179
phylum.Cyanobacteria.id.1500	rs67057512	G	A	-0.108	0.021	6.67E-07	7115
phylum.Bacteroidetes.id.905	rs17085798	C	A	-0.119	0.024	6.59E-07	11350
phylum.Bacteroidetes.id.905	rs111845179	C	T	0.104	0.021	6.47E-07	16394
phylum.Actinobacteria.id.400	rs56263017	T	C	0.083	0.017	6.34E-07	17990
phylum.Actinobacteria.id.400	rs3769002	T	C	0.083	0.017	6.33E-07	17990
phylum.Bacteroidetes.id.905	rs11929346	T	C	-0.065	0.013	6.30E-07	18335
phylum.Actinobacteria.id.400	rs58426504	T	G	0.072	0.015	6.21E-07	17990
phylum.Euryarchaeota.id.55	rs10202904	G	T	-0.116	0.023	6.19E-07	3861
phylum.Bacteroidetes.id.905	rs2210452	G	A	-0.119	0.024	6.13E-07	11350
phylum.Bacteroidetes.id.905	rs9788409	T	C	-0.120	0.024	6.10E-07	11350
phylum.Actinobacteria.id.400	rs4450544	C	T	0.056	0.011	6.09E-07	17990
phylum.Bacteroidetes.id.905	rs80015632	C	G	-0.119	0.024	6.09E-07	11350
phylum.Verrucomicrobia.id.3982	rs1491244	A	T	0.115	0.023	5.97E-07	11703
phylum.Bacteroidetes.id.905	rs56949730	A	G	-0.119	0.024	5.90E-07	11350
phylum.Actinobacteria.id.400	rs7573600	G	C	0.072	0.015	5.86E-07	17990
phylum.Actinobacteria.id.400	rs6714750	A	G	0.061	0.012	5.82E-07	17782
phylum.Actinobacteria.id.400	rs6747073	T	C	0.060	0.012	5.79E-07	17987
phylum.Bacteroidetes.id.905	rs60614038	T	A	-0.120	0.024	5.76E-07	11350
phylum.Actinobacteria.id.400	rs4954220	C	A	0.072	0.015	5.72E-07	17990
phylum.Bacteroidetes.id.905	rs17085771	A	T	-0.120	0.024	5.70E-07	11350
phylum.Actinobacteria.id.400	rs16832275	C	G	0.082	0.016	5.54E-07	17990
phylum.Actinobacteria.id.400	rs61087958	C	T	0.072	0.015	5.50E-07	17990
phylum.Bacteroidetes.id.905	rs17085818	A	C	-0.120	0.024	5.49E-07	11350

phylum.Actinobacteria.id.400	rs11898045	T	C	0.072	0.015	5.46E-07	17990
phylum.Bacteroidetes.id.905	rs112675712	T	C	-0.119	0.024	5.38E-07	11350
phylum.Bacteroidetes.id.905	rs2210454	C	T	-0.120	0.024	5.38E-07	11350
phylum.Actinobacteria.id.400	rs998451	A	G	0.053	0.011	5.35E-07	17989
phylum.Bacteroidetes.id.905	rs2150960	G	C	-0.120	0.024	5.28E-07	11350
phylum.Bacteroidetes.id.905	rs7337863	C	A	-0.119	0.024	5.27E-07	11350
phylum.Bacteroidetes.id.905	rs74090627	C	T	-0.120	0.024	5.26E-07	11350
phylum.Verrucomicrobia.id.3982	rs112769434	A	G	0.115	0.023	5.23E-07	11703
phylum.Bacteroidetes.id.905	rs2210451	C	G	-0.120	0.024	5.18E-07	11350
phylum.Bacteroidetes.id.905	rs58298316	T	G	-0.120	0.024	5.16E-07	11350
phylum.Actinobacteria.id.400	rs58327215	G	C	0.072	0.015	5.14E-07	17990
phylum.Actinobacteria.id.400	rs56903548	C	T	0.073	0.015	5.07E-07	17990
phylum.Firmicutes.id.1672	rs2009919	C	T	0.054	0.011	4.95E-07	17859
phylum.Actinobacteria.id.400	rs7422031	C	T	0.073	0.015	4.91E-07	17990
phylum.Actinobacteria.id.400	rs6430561	C	T	0.073	0.015	4.90E-07	17990
phylum.Bacteroidetes.id.905	rs7631304	A	G	-0.066	0.013	4.90E-07	18335
phylum.Bacteroidetes.id.905	rs112343530	T	C	-0.120	0.024	4.87E-07	11350
phylum.Bacteroidetes.id.905	rs73846128	G	A	-0.066	0.013	4.78E-07	18335
phylum.Cyanobacteria.id.1500	rs789063	A	G	-0.106	0.021	4.78E-07	7118
phylum.Actinobacteria.id.400	rs1979033	G	A	0.053	0.011	4.76E-07	17983
phylum.Actinobacteria.id.400	rs10841473	C	G	-0.060	0.012	4.47E-07	17987
phylum.Actinobacteria.id.400	rs1375132	A	G	0.060	0.012	4.42E-07	17987
phylum.Actinobacteria.id.400	rs4561607	C	T	0.057	0.011	4.31E-07	17989
phylum.Bacteroidetes.id.905	rs74090639	G	A	-0.122	0.024	4.30E-07	11350
phylum.Actinobacteria.id.400	rs10208624	C	T	0.073	0.015	4.30E-07	17990
phylum.Actinobacteria.id.400	rs4954513	G	A	0.085	0.017	4.22E-07	17990
phylum.Bacteroidetes.id.905	rs56358950	T	C	-0.122	0.024	4.11E-07	11350
phylum.Actinobacteria.id.400	rs2874739	C	T	0.073	0.015	4.09E-07	17990
phylum.Verrucomicrobia.id.3982	rs74542928	C	T	0.116	0.023	4.08E-07	11703
phylum.Actinobacteria.id.400	rs1030764	T	C	0.064	0.012	4.06E-07	17990
phylum.Actinobacteria.id.400	rs7568525	G	A	0.073	0.015	4.04E-07	17990

phylum.Actinobacteria.id.400	rs4954556	G	A	0.113	0.024	3.83E-07	10790
phylum.Actinobacteria.id.400	rs1530559	A	G	0.055	0.011	3.78E-07	17782
phylum.Bacteroidetes.id.905	rs60610351	T	A	-0.122	0.024	3.71E-07	11350
phylum.Actinobacteria.id.400	rs12616520	T	A	0.065	0.012	3.68E-07	17990
phylum.Proteobacteria.id.2375	rs922773	T	C	-0.080	0.016	3.68E-07	18132
phylum.Actinobacteria.id.400	rs12328663	T	C	0.073	0.015	3.67E-07	17990
phylum.Bacteroidetes.id.905	rs58269684	C	T	-0.122	0.024	3.66E-07	11350
phylum.Actinobacteria.id.400	rs10193348	A	G	0.074	0.015	3.41E-07	17990
phylum.Bacteroidetes.id.905	rs55993203	G	A	-0.122	0.024	3.40E-07	11350
phylum.Actinobacteria.id.400	rs2278544	G	A	0.065	0.012	3.36E-07	17990
phylum.Actinobacteria.id.400	rs6760329	G	A	0.065	0.012	3.06E-07	17990
phylum.Actinobacteria.id.400	rs10928545	G	A	0.065	0.012	3.02E-07	17990
phylum.Cyanobacteria.id.1500	rs900188	A	G	-0.138	0.027	2.88E-07	6921
phylum.Bacteroidetes.id.905	rs55773148	A	G	-0.123	0.024	2.84E-07	11350
phylum.Actinobacteria.id.400	rs3768998	G	T	0.085	0.016	2.66E-07	17989
phylum.Actinobacteria.id.400	rs9287442	G	A	0.065	0.012	2.66E-07	17990
phylum.Actinobacteria.id.400	rs10188066	A	G	0.065	0.012	2.66E-07	17990
phylum.Actinobacteria.id.400	rs10928513	C	T	0.055	0.011	2.61E-07	17989
phylum.Bacteroidetes.id.905	rs73512608	A	G	-0.123	0.024	2.54E-07	11350
phylum.Actinobacteria.id.400	rs10928554	C	T	0.089	0.017	2.51E-07	17782
phylum.Actinobacteria.id.400	rs10187402	C	G	0.061	0.012	2.49E-07	17982
phylum.Actinobacteria.id.400	rs1879087	T	C	0.102	0.022	2.48E-07	11920
phylum.Cyanobacteria.id.1500	rs2005426	C	A	-0.139	0.027	2.47E-07	6918
phylum.Cyanobacteria.id.1500	rs9830438	A	C	-0.138	0.027	2.31E-07	6922
phylum.Actinobacteria.id.400	rs935613	C	T	0.062	0.012	2.26E-07	17990
phylum.Actinobacteria.id.400	rs4429415	T	C	0.058	0.011	2.05E-07	17990
phylum.Cyanobacteria.id.1500	rs9864379	C	T	-0.139	0.027	2.03E-07	6922
phylum.Actinobacteria.id.400	rs2304599	G	C	0.066	0.012	1.96E-07	17990
phylum.Cyanobacteria.id.1500	rs789069	C	A	-0.111	0.021	1.86E-07	7110
phylum.Cyanobacteria.id.1500	rs789067	C	T	-0.111	0.021	1.78E-07	7108
phylum.Cyanobacteria.id.1500	rs789068	A	G	-0.111	0.021	1.57E-07	7110

phylum.Actinobacteria.id.400	rs1374329	A	G	0.066	0.012	1.45E-07	17990
phylum.Actinobacteria.id.400	rs2011946	A	C	0.061	0.011	1.28E-07	17983
phylum.Actinobacteria.id.400	rs12469709	T	C	0.066	0.012	8.81E-08	17990
phylum.Actinobacteria.id.400	rs12994270	A	T	0.066	0.012	8.15E-08	17990
phylum.Actinobacteria.id.400	rs932206	T	C	0.059	0.011	6.77E-08	17782
phylum.Actinobacteria.id.400	rs10192827	A	G	0.066	0.012	6.52E-08	17987
phylum.Actinobacteria.id.400	rs1438307	T	G	0.066	0.012	6.08E-08	17990
phylum.Actinobacteria.id.400	rs10173394	T	C	0.066	0.012	6.06E-08	17990
phylum.Actinobacteria.id.400	rs1869829	A	G	0.065	0.012	5.72E-08	17990
phylum.Actinobacteria.id.400	rs10195620	T	A	0.066	0.012	5.63E-08	17990
phylum.Actinobacteria.id.400	rs3213889	G	A	0.067	0.012	5.36E-08	17990
phylum.Actinobacteria.id.400	rs12998387	G	A	0.067	0.012	5.20E-08	17990
phylum.Actinobacteria.id.400	rs13413639	C	A	0.066	0.012	4.90E-08	17990
phylum.Actinobacteria.id.400	rs28453840	A	G	0.067	0.012	4.86E-08	17989
phylum.Actinobacteria.id.400	rs12619365	C	T	0.067	0.012	4.79E-08	17990
phylum.Actinobacteria.id.400	rs4954279	G	A	0.066	0.012	4.64E-08	17990
phylum.Actinobacteria.id.400	rs2680880	T	A	0.061	0.011	4.33E-08	17990
phylum.Actinobacteria.id.400	rs1438304	G	A	0.067	0.012	4.33E-08	17990
phylum.Actinobacteria.id.400	rs10202489	A	G	0.067	0.012	4.16E-08	17990
phylum.Actinobacteria.id.400	rs12998016	T	C	0.067	0.012	4.08E-08	17989
phylum.Actinobacteria.id.400	rs1438305	G	C	0.067	0.012	4.07E-08	17990
phylum.Actinobacteria.id.400	rs4954276	A	G	0.067	0.012	4.06E-08	17990
phylum.Actinobacteria.id.400	rs10928542	G	A	0.067	0.012	3.91E-08	17990
phylum.Actinobacteria.id.400	rs62160860	G	C	0.090	0.016	3.91E-08	17985
phylum.Actinobacteria.id.400	rs11679508	T	A	0.067	0.012	3.80E-08	17990
phylum.Actinobacteria.id.400	rs7608045	T	C	0.067	0.012	3.70E-08	17990
phylum.Actinobacteria.id.400	rs2082729	T	C	0.067	0.012	3.61E-08	17990
phylum.Actinobacteria.id.400	rs13412397	A	G	0.068	0.012	3.17E-08	17990
phylum.Actinobacteria.id.400	rs71348715	T	G	0.068	0.012	3.12E-08	17990
phylum.Actinobacteria.id.400	rs6755383	C	T	0.067	0.012	3.11E-08	17990
phylum.Actinobacteria.id.400	rs313522	T	A	0.067	0.012	2.89E-08	17990

phylum.Actinobacteria.id.400	rs656326	A	C	0.067	0.012	2.83E-08	17990
phylum.Actinobacteria.id.400	rs10928546	T	C	0.068	0.012	2.62E-08	17990
phylum.Actinobacteria.id.400	rs6715856	T	C	0.068	0.012	2.55E-08	17990
phylum.Actinobacteria.id.400	rs313523	G	A	0.068	0.012	2.52E-08	17990
phylum.Actinobacteria.id.400	rs6430589	C	G	0.068	0.012	2.47E-08	17989
phylum.Actinobacteria.id.400	rs1011361	A	G	0.068	0.012	2.33E-08	17989
phylum.Actinobacteria.id.400	rs2034276	A	T	0.068	0.012	2.25E-08	17990
phylum.Actinobacteria.id.400	rs6720287	A	G	0.068	0.012	2.22E-08	17990
phylum.Actinobacteria.id.400	rs11684545	T	G	0.068	0.012	2.18E-08	17990
phylum.Actinobacteria.id.400	rs313524	C	T	0.068	0.012	2.16E-08	17990
phylum.Actinobacteria.id.400	rs313517	A	G	0.068	0.012	2.14E-08	17990
phylum.Actinobacteria.id.400	rs4954280	A	G	0.068	0.012	2.05E-08	17990
phylum.Actinobacteria.id.400	rs7355359	T	C	0.068	0.012	2.00E-08	17990
phylum.Actinobacteria.id.400	rs1446584	A	G	0.068	0.012	1.83E-08	17990
phylum.Actinobacteria.id.400	rs313518	C	T	0.069	0.012	1.56E-08	17990
phylum.Actinobacteria.id.400	rs313528	G	A	0.069	0.012	1.54E-08	17990
phylum.Actinobacteria.id.400	rs313526	C	T	0.069	0.012	1.54E-08	17990
phylum.Actinobacteria.id.400	rs313519	A	C	0.069	0.012	1.46E-08	17990
phylum.Actinobacteria.id.400	rs71348714	A	G	0.069	0.012	1.40E-08	17990
phylum.Actinobacteria.id.400	rs11893318	T	C	0.092	0.016	1.19E-08	17989
phylum.Actinobacteria.id.400	rs6723108	G	T	0.060	0.011	1.02E-08	17990
phylum.Actinobacteria.id.400	rs4954551	G	A	0.092	0.016	9.29E-09	17990
phylum.Actinobacteria.id.400	rs17261772	T	C	0.070	0.012	8.37E-09	17782
phylum.Actinobacteria.id.400	rs2278683	A	C	0.093	0.016	8.07E-09	17989
phylum.Actinobacteria.id.400	rs749873	T	C	0.066	0.011	7.92E-09	17990
phylum.Actinobacteria.id.400	rs7587285	T	C	0.093	0.016	7.55E-09	17990
phylum.Actinobacteria.id.400	rs11693502	T	C	0.066	0.011	7.15E-09	17989
phylum.Actinobacteria.id.400	rs1470457	A	G	0.072	0.012	5.41E-09	17990
phylum.Actinobacteria.id.400	rs309137	T	C	0.070	0.012	3.76E-09	17990
phylum.Actinobacteria.id.400	rs2322659	C	T	0.073	0.012	3.28E-09	17990
phylum.Actinobacteria.id.400	rs3739020	T	G	0.074	0.012	2.26E-09	17985

phylum.Actinobacteria.id.400	rs2164210	C	T	0.073	0.012	1.70E-09	17990
phylum.Actinobacteria.id.400	rs745500	A	G	0.073	0.012	1.41E-09	17990
phylum.Actinobacteria.id.400	rs12475139	T	A	0.071	0.012	1.36E-09	17782
phylum.Actinobacteria.id.400	rs3769005	G	C	0.073	0.012	1.26E-09	17990
phylum.Actinobacteria.id.400	rs11681248	T	C	0.069	0.011	1.25E-09	17982
phylum.Actinobacteria.id.400	rs748841	T	C	0.073	0.012	1.16E-09	17990
phylum.Actinobacteria.id.400	rs892715	C	T	0.073	0.012	1.14E-09	17990
phylum.Actinobacteria.id.400	rs2322660	T	C	0.074	0.012	1.01E-09	17990
phylum.Actinobacteria.id.400	rs6719488	T	G	0.074	0.012	9.99E-10	17990
phylum.Actinobacteria.id.400	rs6742283	G	A	0.074	0.012	9.96E-10	17986
phylum.Actinobacteria.id.400	rs309149	C	T	0.075	0.012	8.65E-10	17990
phylum.Actinobacteria.id.400	rs12988076	A	C	0.074	0.012	7.58E-10	17990
phylum.Actinobacteria.id.400	rs3754686	C	T	0.074	0.012	7.19E-10	17990
phylum.Actinobacteria.id.400	rs309164	T	C	0.076	0.012	5.44E-10	17990
phylum.Actinobacteria.id.400	rs6716536	C	T	0.073	0.012	4.47E-10	17782
phylum.Actinobacteria.id.400	rs1561277	C	A	0.073	0.012	4.41E-10	17782
phylum.Actinobacteria.id.400	rs12620033	G	C	0.076	0.012	3.70E-10	17990
phylum.Actinobacteria.id.400	rs2236783	A	G	0.076	0.012	2.68E-10	17990
phylum.Actinobacteria.id.400	rs6759321	G	T	0.074	0.012	1.86E-10	17782
phylum.Actinobacteria.id.400	rs12615624	A	G	0.078	0.012	1.84E-10	17990
phylum.Actinobacteria.id.400	rs4954490	A	G	0.077	0.012	1.74E-10	17983
phylum.Actinobacteria.id.400	rs309134	G	A	0.078	0.012	1.74E-10	17989
phylum.Actinobacteria.id.400	rs4988183	T	C	0.079	0.012	1.10E-10	17989
phylum.Actinobacteria.id.400	rs309125	C	T	0.078	0.012	4.70E-11	17989
phylum.Actinobacteria.id.400	rs309180	A	G	0.079	0.012	2.85E-11	17990
phylum.Actinobacteria.id.400	rs309168	C	T	0.080	0.012	2.55E-11	17990
phylum.Actinobacteria.id.400	rs632632	T	C	0.080	0.012	2.49E-11	17989
phylum.Actinobacteria.id.400	rs218174	A	G	0.080	0.012	2.21E-11	17988
phylum.Actinobacteria.id.400	rs309160	C	T	0.081	0.012	1.40E-11	17990
phylum.Actinobacteria.id.400	rs13404551	T	C	0.081	0.012	1.05E-11	17986
phylum.Actinobacteria.id.400	rs1446585	A	G	0.080	0.012	8.22E-12	17782

phylum.Actinobacteria.id.400	rs687670	T	C	0.083	0.012	3.02E-12	17990
phylum.Actinobacteria.id.400	rs13023281	T	C	-0.081	0.012	2.61E-12	16862
phylum.Actinobacteria.id.400	rs12465802	G	A	0.080	0.011	1.37E-12	17990
phylum.Actinobacteria.id.400	rs6730157	A	G	0.081	0.011	4.54E-13	17990
phylum.Actinobacteria.id.400	rs1375131	T	C	0.082	0.011	4.16E-13	17988
phylum.Actinobacteria.id.400	rs36084664	A	G	-0.084	0.012	3.88E-13	16862
phylum.Actinobacteria.id.400	rs6754311	T	C	0.085	0.011	1.24E-13	17988
phylum.Actinobacteria.id.400	rs182549	T	C	0.085	0.011	1.13E-13	17990
phylum.Actinobacteria.id.400	rs4988235	A	G	0.085	0.011	1.12E-13	17990
phylum.Actinobacteria.id.400	rs7570971	C	A	0.087	0.011	1.41E-14	17782
class.Bacteroidia.id.912	rs79585701	C	A	0.065	0.015	9.99E-06	18334
class.Bacilli.id.1673	rs2952183	C	T	-0.065	0.015	9.99E-06	17376
class.Clostridia.id.1859	rs3792064	A	G	0.080	0.018	9.98E-06	17812
class.Bacilli.id.1673	rs11837200	T	C	-0.098	0.022	9.98E-06	16026
class.Actinobacteria.id.419	rs11895319	T	C	0.065	0.015	9.98E-06	16313
class.Actinobacteria.id.419	rs7721660	T	G	-0.077	0.017	9.97E-06	16313
class.Melainabacteria.id.1589	rs10738747	A	G	0.081	0.018	9.96E-06	5884
class.Betaproteobacteria.id.2867	rs11124193	A	G	0.059	0.013	9.95E-06	17042
class.Deltaproteobacteria.id.3087	rs35912151	A	T	-0.077	0.017	9.95E-06	15168
class.Lentisphaeria.id.2250	rs253710	C	T	0.104	0.023	9.95E-06	4734
class.Mollicutes.id.3920	rs74338080	C	G	-0.110	0.025	9.95E-06	11130
class.Verrucomicrobiae.id.4029	rs28613890	C	T	0.063	0.014	9.91E-06	11865
class.Clostridia.id.1859	rs10209007	C	G	0.079	0.018	9.89E-06	17812
class.Actinobacteria.id.419	rs861392	T	C	0.051	0.012	9.85E-06	16312
class.Betaproteobacteria.id.2867	rs1926544	A	C	-0.048	0.011	9.84E-06	17151
class.Actinobacteria.id.419	rs72717438	C	T	0.052	0.012	9.84E-06	16312
class.Methanobacteria.id.119	rs73248946	A	G	-0.222	0.049	9.83E-06	3203
class.Negativicutes.id.2164	rs2103109	A	C	0.047	0.011	9.81E-06	18171
class.Verrucomicrobiae.id.4029	rs10005131	T	G	0.061	0.014	9.81E-06	11865
class.Actinobacteria.id.419	rs9800013	A	G	0.060	0.014	9.78E-06	16204
class.Coriobacteriia.id.809	rs1397793	A	G	-0.050	0.011	9.77E-06	17527

class.Actinobacteria.id.419	rs56346498	C	T	0.052	0.012	9.76E-06	16313
class.Alphaproteobacteria.id.2379	rs62285697	T	C	0.081	0.018	9.76E-06	9115
class.Methanobacteria.id.119	rs10501707	A	G	0.110	0.025	9.72E-06	3698
class.Deltaproteobacteria.id.3087	rs7936267	G	A	-0.056	0.012	9.72E-06	15162
class.Actinobacteria.id.419	rs309143	A	G	0.067	0.015	9.72E-06	16313
class.Coriobacteriia.id.809	rs45480394	G	T	-0.050	0.011	9.71E-06	17413
class.Actinobacteria.id.419	rs67665078	G	A	0.049	0.011	9.71E-06	16312
class.Actinobacteria.id.419	rs12465544	C	T	0.067	0.015	9.70E-06	16313
class.Methanobacteria.id.119	rs4385899	C	T	0.110	0.025	9.69E-06	3698
class.Betaproteobacteria.id.2867	rs13385989	A	C	0.060	0.014	9.69E-06	16717
class.Gammaproteobacteria.id.3303	rs2090256	T	C	-0.053	0.012	9.68E-06	16025
class.Actinobacteria.id.419	rs11745789	T	C	0.052	0.012	9.68E-06	16312
class.Verrucomicrobiae.id.4029	rs2865331	G	A	0.062	0.014	9.67E-06	11864
class.Actinobacteria.id.419	rs4957061	C	T	0.050	0.011	9.66E-06	16182
class.Clostridia.id.1859	rs7687278	T	A	0.065	0.015	9.65E-06	18340
class.Deltaproteobacteria.id.3087	rs1035691	G	A	-0.055	0.012	9.65E-06	15168
class.Actinobacteria.id.419	rs72717412	C	T	0.052	0.012	9.65E-06	16313
class.Erysipelotrichia.id.2147	rs2638904	A	G	0.047	0.011	9.64E-06	18215
class.Coriobacteriia.id.809	rs7540303	T	C	0.048	0.011	9.62E-06	17691
class.Bacilli.id.1673	rs10034695	T	C	-0.104	0.025	9.62E-06	10436
class.Verrucomicrobiae.id.4029	rs941682	A	G	-0.063	0.014	9.61E-06	11809
class.Bacilli.id.1673	rs78017832	G	T	-0.100	0.022	9.59E-06	15915
class.Negativicutes.id.2164	rs12572508	C	T	0.047	0.011	9.58E-06	18171
class.Clostridia.id.1859	rs10517722	G	C	0.065	0.015	9.58E-06	18339
class.Mollicutes.id.3920	rs7827910	T	A	0.063	0.014	9.57E-06	11389
class.Deltaproteobacteria.id.3087	rs72647049	A	G	-0.076	0.017	9.56E-06	15164
class.Methanobacteria.id.119	rs10830292	T	G	0.110	0.025	9.56E-06	3698
class.Verrucomicrobiae.id.4029	rs1988252	G	A	0.062	0.014	9.56E-06	11864
class.Mollicutes.id.3920	rs12480021	G	A	-0.111	0.025	9.55E-06	11130
class.Mollicutes.id.3920	rs7843989	T	G	0.063	0.014	9.55E-06	11390
class.Clostridia.id.1859	rs13421739	G	C	0.089	0.018	9.54E-06	18340

class.Erysipelotrichia.id.2147	rs8096144	C	G	-0.086	0.019	9.53E-06	17405
class.Bacilli.id.1673	rs11110283	C	A	-0.100	0.022	9.53E-06	15915
class.Bacilli.id.1673	rs13068444	G	A	0.060	0.014	9.53E-06	17260
class.Gammaproteobacteria.id.3303	rs12089016	C	A	-0.079	0.017	9.53E-06	15232
class.Erysipelotrichia.id.2147	rs1884466	T	C	-0.048	0.011	9.53E-06	18205
class.Actinobacteria.id.419	rs7732645	T	C	-0.076	0.017	9.50E-06	16313
class.Coriobacteriia.id.809	rs62448870	A	G	-0.048	0.011	9.50E-06	17527
class.Actinobacteria.id.419	rs12467569	T	C	0.067	0.015	9.48E-06	16313
class.Deltaproteobacteria.id.3087	rs4321143	A	G	-0.057	0.013	9.45E-06	15167
class.Actinobacteria.id.419	rs11743639	C	T	0.052	0.012	9.44E-06	16312
class.Mollicutes.id.3920	rs11102969	A	G	-0.066	0.015	9.44E-06	11002
class.Mollicutes.id.3920	rs67450615	T	G	0.072	0.016	9.40E-06	11374
class.Mollicutes.id.3920	rs10858092	T	C	-0.065	0.015	9.40E-06	11002
class.Clostridia.id.1859	rs6797343	T	G	0.059	0.013	9.36E-06	18340
class.Methanobacteria.id.119	rs9532770	T	C	0.124	0.028	9.34E-06	3319
class.Actinobacteria.id.419	rs72717435	G	A	0.052	0.012	9.34E-06	16312
class.Alphaproteobacteria.id.2379	rs17061716	C	G	0.093	0.021	9.33E-06	9465
class.Lentisphaeria.id.2250	rs1363428	A	G	0.104	0.023	9.33E-06	4734
class.Bacilli.id.1673	rs11835118	C	T	-0.098	0.022	9.31E-06	16026
class.Verrucomicrobiae.id.4029	rs12904881	G	A	0.058	0.013	9.30E-06	11865
class.Deltaproteobacteria.id.3087	rs2873556	A	G	-0.077	0.017	9.29E-06	15165
class.Betaproteobacteria.id.2867	rs7324740	A	G	-0.050	0.011	9.29E-06	17150
class.Erysipelotrichia.id.2147	rs7826267	G	T	-0.084	0.020	9.28E-06	17586
class.Methanobacteria.id.119	rs10424197	A	G	-0.111	0.025	9.28E-06	3698
class.Mollicutes.id.3920	rs12136140	A	G	-0.066	0.015	9.28E-06	11000
class.Betaproteobacteria.id.2867	rs75242906	T	C	-0.121	0.028	9.27E-06	10803
class.Negativicutes.id.2164	rs1135612	A	G	0.053	0.012	9.26E-06	18164
class.Lentisphaeria.id.2250	rs62481809	C	G	0.103	0.023	9.20E-06	4724
class.Clostridia.id.1859	rs6536526	T	A	0.066	0.015	9.19E-06	18339
class.Actinobacteria.id.419	rs1496374	G	A	-0.077	0.017	9.18E-06	16312
class.Clostridia.id.1859	rs7667168	T	C	0.066	0.015	9.17E-06	18340

class.Betaproteobacteria.id.2867	rs1581853	G	A	-0.049	0.011	9.17E-06	16717
class.Betaproteobacteria.id.2867	rs320179	A	C	0.057	0.013	9.17E-06	17146
class.Erysipelotrichia.id.2147	rs12938302	C	T	-0.075	0.017	9.17E-06	18207
class.Gammaproteobacteria.id.3303	rs7003100	T	C	-0.054	0.012	9.14E-06	16025
class.Negativicutes.id.2164	rs10787507	C	G	-0.055	0.013	9.14E-06	18162
class.Betaproteobacteria.id.2867	rs9553336	T	G	0.089	0.020	9.14E-06	15641
class.Bacilli.id.1673	rs111552159	G	C	0.128	0.029	9.13E-06	11350
class.Clostridia.id.1859	rs6126494	T	G	-0.097	0.021	9.12E-06	17405
class.Mollicutes.id.3920	rs10776807	A	G	-0.066	0.015	9.12E-06	11002
class.Mollicutes.id.3920	rs443345	G	A	-0.066	0.015	9.11E-06	11000
class.Alphaproteobacteria.id.2379	rs150933400	G	A	-0.110	0.024	9.11E-06	9425
class.Betaproteobacteria.id.2867	rs4521068	G	A	0.059	0.013	9.11E-06	17043
class.Verrucomicrobiae.id.4029	rs36010840	C	T	0.063	0.014	9.11E-06	11864
class.Actinobacteria.id.419	rs58110576	C	A	0.052	0.012	9.09E-06	16182
class.Bacteroidia.id.912	rs62531359	G	T	0.066	0.015	9.09E-06	18320
class.Alphaproteobacteria.id.2379	rs8048637	G	T	0.078	0.017	9.08E-06	9596
class.Verrucomicrobiae.id.4029	rs28811282	G	A	0.062	0.014	9.06E-06	11864
class.Clostridia.id.1859	rs7269302	T	A	-0.096	0.021	9.04E-06	17405
class.Verrucomicrobiae.id.4029	rs28858161	T	C	0.062	0.014	9.03E-06	11864
class.Coriobacteriia.id.809	rs2442778	A	G	-0.116	0.026	9.03E-06	13472
class.Actinobacteria.id.419	rs134327	G	A	0.104	0.024	9.02E-06	14302
class.Bacilli.id.1673	rs2559847	C	T	-0.099	0.022	9.02E-06	16026
class.Methanobacteria.id.119	rs11018664	G	A	0.110	0.025	9.00E-06	3698
class.Bacilli.id.1673	rs11097541	G	A	-0.051	0.011	8.99E-06	17376
class.Melainabacteria.id.1589	rs11806158	C	A	-0.082	0.019	8.98E-06	5887
class.Mollicutes.id.3920	rs10504256	G	A	0.063	0.014	8.96E-06	11390
class.Verrucomicrobiae.id.4029	rs12024893	A	G	0.063	0.014	8.96E-06	11864
class.Actinobacteria.id.419	rs72717410	A	T	0.052	0.012	8.94E-06	16312
class.Actinobacteria.id.419	rs78274583	C	T	0.069	0.015	8.93E-06	16313
class.Bacilli.id.1673	rs2975655	G	A	-0.055	0.012	8.92E-06	17377
class.Actinobacteria.id.419	rs857444	T	C	0.051	0.012	8.92E-06	16312

class.Actinobacteria.id.419	rs11682960	C	T	0.050	0.011	8.92E-06	16307
class.Betaproteobacteria.id.2867	rs34203874	C	T	0.090	0.020	8.91E-06	17085
class.Gammaproteobacteria.id.3303	rs12404135	G	A	-0.079	0.017	8.89E-06	15231
class.Bacteroidia.id.912	rs1505366	G	T	-0.107	0.024	8.89E-06	11853
class.Actinobacteria.id.419	rs76097170	C	T	0.067	0.015	8.88E-06	16310
class.Bacilli.id.1673	rs7187700	G	A	0.056	0.013	8.87E-06	17377
class.Mollicutes.id.3920	rs13023735	A	G	0.063	0.014	8.86E-06	11389
class.Gammaproteobacteria.id.3303	rs16852925	C	G	0.063	0.014	8.85E-06	16019
class.Alphaproteobacteria.id.2379	rs7960664	A	G	0.097	0.022	8.84E-06	9596
class.Actinobacteria.id.419	rs6893855	A	C	-0.077	0.017	8.84E-06	16312
class.Actinobacteria.id.419	rs72717436	C	A	0.053	0.012	8.84E-06	16312
class.Bacilli.id.1673	rs7627280	T	C	0.051	0.011	8.81E-06	17375
class.Gammaproteobacteria.id.3303	rs75101789	T	C	0.073	0.016	8.79E-06	16024
class.Clostridia.id.1859	rs13105690	C	T	-0.053	0.012	8.78E-06	18340
class.Mollicutes.id.3920	rs367586	A	C	-0.066	0.015	8.77E-06	11000
class.Bacteroidia.id.912	rs4146051	G	A	-0.107	0.025	8.76E-06	11372
class.Betaproteobacteria.id.2867	rs56104821	C	A	0.057	0.013	8.76E-06	17147
class.Bacilli.id.1673	rs7959495	A	C	-0.099	0.022	8.73E-06	16026
class.Clostridia.id.1859	rs1842454	A	G	-0.055	0.013	8.72E-06	18340
class.Methanobacteria.id.119	rs41288287	C	T	0.199	0.044	8.70E-06	3501
class.Coriobacteriia.id.809	rs60426889	G	T	-0.050	0.011	8.69E-06	17689
class.Actinobacteria.id.419	rs2304366	C	T	0.068	0.015	8.68E-06	16313
class.Actinobacteria.id.419	rs961091	A	G	0.050	0.011	8.68E-06	16311
class.Melainabacteria.id.1589	rs10148250	A	G	0.086	0.019	8.67E-06	5453
class.Methanobacteria.id.119	rs3912664	G	T	0.110	0.025	8.67E-06	3698
class.Actinobacteria.id.419	rs2243174	A	G	0.057	0.013	8.66E-06	16312
class.Lentisphaeria.id.2250	rs73113483	A	T	-0.131	0.029	8.66E-06	4718
class.Erysipelotrichia.id.2147	rs10134361	G	A	0.071	0.016	8.66E-06	18217
class.Mollicutes.id.3920	rs10745356	A	C	-0.066	0.015	8.64E-06	11002
class.Actinobacteria.id.419	rs9937275	G	A	0.052	0.012	8.63E-06	16182
class.Verrucomicrobiae.id.4029	rs736124	T	A	-0.074	0.017	8.63E-06	11593

class.Actinobacteria.id.419	rs12049045	G	A	0.051	0.011	8.63E-06	16311
class.Actinobacteria.id.419	rs7700479	A	T	-0.077	0.017	8.62E-06	16313
class.Actinobacteria.id.419	rs80083040	G	T	0.156	0.035	8.62E-06	8003
class.Actinobacteria.id.419	rs625118	C	A	0.074	0.017	8.62E-06	16313
class.Betaproteobacteria.id.2867	rs7326330	T	C	-0.049	0.011	8.60E-06	17151
class.Mollicutes.id.3920	rs417270	C	T	-0.066	0.015	8.60E-06	11000
class.Mollicutes.id.3920	rs1465607	C	T	-0.066	0.015	8.59E-06	11002
class.Negativicutes.id.2164	rs10885514	A	G	-0.053	0.013	8.58E-06	18165
class.Bacilli.id.1673	rs11932798	C	T	-0.051	0.011	8.58E-06	17376
class.Deltaproteobacteria.id.3087	rs7199026	A	C	-0.052	0.012	8.58E-06	15166
class.Actinobacteria.id.419	rs34007021	C	T	0.068	0.015	8.58E-06	16313
class.Methanobacteria.id.119	rs12303159	C	A	-0.223	0.049	8.56E-06	3203
class.Bacteroidia.id.912	rs12486971	T	C	-0.060	0.014	8.56E-06	18327
class.Deltaproteobacteria.id.3087	rs12546457	A	G	-0.077	0.017	8.53E-06	15165
class.Bacilli.id.1673	rs11726025	G	A	-0.104	0.025	8.53E-06	10436
class.Mollicutes.id.3920	rs13025367	C	G	0.063	0.014	8.53E-06	11392
class.Mollicutes.id.3920	rs10097590	G	A	0.067	0.015	8.52E-06	11391
class.Coriobacteriia.id.809	rs12974142	A	G	0.079	0.018	8.51E-06	17413
class.Verrucomicrobiae.id.4029	rs72663751	G	A	0.065	0.015	8.50E-06	11860
class.Betaproteobacteria.id.2867	rs7988877	T	A	-0.050	0.011	8.50E-06	16717
class.Erysipelotrichia.id.2147	rs10144017	G	A	0.069	0.016	8.50E-06	18217
class.Bacteroidia.id.912	rs4916508	A	G	-0.047	0.011	8.47E-06	18324
class.Bacilli.id.1673	rs7666190	A	C	-0.104	0.025	8.47E-06	10436
class.Bacilli.id.1673	rs74663707	T	C	0.098	0.022	8.46E-06	15769
class.Methanobacteria.id.119	rs73068003	T	G	-0.158	0.035	8.45E-06	3692
class.Actinobacteria.id.419	rs56051594	C	T	0.052	0.011	8.45E-06	16182
class.Negativicutes.id.2164	rs2834062	G	A	0.049	0.011	8.44E-06	18171
class.Verrucomicrobiae.id.4029	rs72663802	C	T	0.065	0.015	8.44E-06	11865
class.Actinobacteria.id.419	rs12188164	C	A	0.053	0.012	8.43E-06	16313
class.Verrucomicrobiae.id.4029	rs4595371	A	G	0.063	0.014	8.42E-06	11864
class.Betaproteobacteria.id.2867	rs2613608	G	A	-0.048	0.011	8.40E-06	17150

class.Clostridia.id.1859	rs76767978	A	G	0.070	0.016	8.40E-06	18329
class.Mollicutes.id.3920	rs2464826	C	A	0.094	0.021	8.40E-06	10998
class.Gammaproteobacteria.id.3303	rs2234691	C	T	0.076	0.017	8.39E-06	16011
class.Bacteroidia.id.912	rs17343978	C	A	-0.055	0.012	8.36E-06	18334
class.Bacilli.id.1673	rs2975649	C	T	-0.055	0.012	8.32E-06	17366
class.Betaproteobacteria.id.2867	rs4585927	T	C	0.049	0.011	8.30E-06	17150
class.Lentisphaeria.id.2250	rs1895249	G	T	0.105	0.023	8.27E-06	4733
class.Coriobacteriia.id.809	rs3025411	G	A	0.093	0.021	8.27E-06	15671
class.Actinobacteria.id.419	rs79633114	C	T	0.069	0.015	8.26E-06	16310
class.Betaproteobacteria.id.2867	rs2528684	T	C	-0.048	0.011	8.25E-06	17144
class.Actinobacteria.id.419	rs5755641	T	C	0.103	0.024	8.25E-06	14302
class.Clostridia.id.1859	rs72738886	C	T	0.087	0.019	8.24E-06	16934
class.Actinobacteria.id.419	rs12475398	C	T	0.069	0.015	8.23E-06	16311
class.Deltaproteobacteria.id.3087	rs17791393	A	G	-0.067	0.015	8.23E-06	15071
class.Methanobacteria.id.119	rs6508769	C	T	0.154	0.034	8.23E-06	3319
class.Methanobacteria.id.119	rs74599069	C	A	0.221	0.049	8.22E-06	3342
class.Actinobacteria.id.419	rs12188678	T	C	0.053	0.012	8.21E-06	16313
class.Melainabacteria.id.1589	rs367480	A	G	-0.084	0.019	8.20E-06	5887
class.Verrucomicrobiae.id.4029	rs4294419	G	A	0.063	0.014	8.19E-06	11864
class.Bacilli.id.1673	rs11110276	G	T	-0.099	0.022	8.19E-06	16026
class.Actinobacteria.id.419	rs1533649	G	A	0.059	0.013	8.18E-06	16182
class.Lentisphaeria.id.2250	rs1002941	A	G	0.105	0.023	8.15E-06	4734
class.Coriobacteriia.id.809	rs11073596	G	T	0.051	0.011	8.14E-06	17527
class.Mollicutes.id.3920	rs7551176	T	C	-0.067	0.015	8.14E-06	11002
class.Mollicutes.id.3920	rs10858094	C	T	-0.066	0.015	8.13E-06	11002
class.Verrucomicrobiae.id.4029	rs7538356	A	C	0.064	0.014	8.12E-06	11864
class.Actinobacteria.id.419	rs7560535	G	A	0.080	0.018	8.11E-06	16312
class.Mollicutes.id.3920	rs12711447	T	C	-0.067	0.015	8.10E-06	11002
class.Bacteroidia.id.912	rs1365795	T	C	0.090	0.020	8.08E-06	17298
class.Mollicutes.id.3920	rs28537087	A	G	0.082	0.019	8.07E-06	11382
class.Actinobacteria.id.419	rs2289963	G	A	0.088	0.019	8.06E-06	16313

class.Clostridia.id.1859	rs11082866	A	T	-0.051	0.012	8.06E-06	18321
class.Melainabacteria.id.1589	rs113884518	C	T	-0.205	0.045	8.06E-06	4442
class.Erysipelotrichia.id.2147	rs290833	G	T	-0.050	0.011	8.03E-06	17789
class.Actinobacteria.id.419	rs11739543	G	A	0.053	0.012	8.02E-06	16312
class.Coriobacteriia.id.809	rs11656361	C	A	0.077	0.018	8.02E-06	16665
class.Bacilli.id.1673	rs11249980	C	T	-0.055	0.012	8.01E-06	17377
class.Erysipelotrichia.id.2147	rs61865709	G	A	-0.053	0.012	8.00E-06	17789
class.Gammaproteobacteria.id.3303	rs7818533	G	A	0.052	0.012	7.99E-06	16016
class.Bacilli.id.1673	rs1595463	A	C	0.048	0.011	7.97E-06	17358
class.Coriobacteriia.id.809	rs1834859	T	G	-0.057	0.013	7.97E-06	17686
class.Verrucomicrobiae.id.4029	rs4107636	G	C	0.063	0.014	7.95E-06	11864
class.Betaproteobacteria.id.2867	rs9537878	G	A	-0.049	0.011	7.93E-06	17151
class.Gammaproteobacteria.id.3303	rs79795896	G	A	-0.159	0.035	7.92E-06	7577
class.Gammaproteobacteria.id.3303	rs10095416	T	A	-0.054	0.012	7.92E-06	16023
class.Actinobacteria.id.419	rs7607920	T	C	0.068	0.015	7.91E-06	16313
class.Gammaproteobacteria.id.3303	rs13257428	G	A	0.052	0.012	7.91E-06	16025
class.Coriobacteriia.id.809	rs62448869	A	T	-0.049	0.011	7.87E-06	17527
class.Verrucomicrobiae.id.4029	rs4600885	A	C	0.063	0.014	7.86E-06	11864
class.Clostridia.id.1859	rs6536525	G	C	0.066	0.015	7.84E-06	18339
class.Coriobacteriia.id.809	rs7896306	T	G	0.072	0.016	7.82E-06	17691
class.Bacilli.id.1673	rs28564647	G	T	-0.061	0.014	7.81E-06	17368
class.Negativicutes.id.2164	rs4463806	C	T	-0.054	0.013	7.81E-06	18160
class.Coriobacteriia.id.809	rs13307134	T	C	0.057	0.013	7.80E-06	17527
class.Gammaproteobacteria.id.3303	rs2357360	T	A	0.052	0.012	7.80E-06	16022
class.Negativicutes.id.2164	rs58649672	C	G	0.047	0.011	7.78E-06	18156
class.Actinobacteria.id.419	rs134422	T	C	0.103	0.024	7.77E-06	14302
class.Gammaproteobacteria.id.3303	rs4876552	G	C	0.052	0.012	7.74E-06	16019
class.Deltaproteobacteria.id.3087	rs72821212	G	C	-0.091	0.020	7.73E-06	15063
class.Actinobacteria.id.419	rs638382	C	T	-0.051	0.012	7.72E-06	15529
class.Bacteroidia.id.912	rs72706335	C	T	-0.222	0.049	7.66E-06	3819
class.Betaproteobacteria.id.2867	rs34177861	G	A	0.060	0.013	7.65E-06	17042

class.Erysipelotrichia.id.2147	rs28703642	G	T	0.053	0.012	7.64E-06	18217
class.Methanobacteria.id.119	rs62240389	A	G	-0.188	0.042	7.64E-06	3385
class.Lentisphaeria.id.2250	rs6951588	T	C	0.104	0.023	7.63E-06	4728
class.Deltaproteobacteria.id.3087	rs7162535	T	C	-0.057	0.013	7.63E-06	15168
class.Actinobacteria.id.419	rs12474093	G	A	0.072	0.016	7.62E-06	16073
class.Erysipelotrichia.id.2147	rs7100916	T	G	-0.053	0.012	7.62E-06	17789
class.Gammaproteobacteria.id.3303	rs60188538	C	T	0.063	0.014	7.60E-06	16019
class.Actinobacteria.id.419	rs34847072	G	C	0.053	0.012	7.60E-06	16312
class.Bacilli.id.1673	rs694949	G	A	-0.081	0.018	7.60E-06	16600
class.Betaproteobacteria.id.2867	rs9520346	G	C	0.142	0.033	7.59E-06	4797
class.Negativicutes.id.2164	rs1649999	G	A	0.075	0.017	7.58E-06	18036
class.Verrucomicrobiae.id.4029	rs79837054	T	C	0.105	0.024	7.58E-06	11216
class.Actinobacteria.id.419	rs2322813	A	G	0.069	0.015	7.54E-06	16310
class.Alphaproteobacteria.id.2379	rs55876211	T	C	-0.081	0.018	7.54E-06	9589
class.Clostridia.id.1859	rs76860606	G	C	0.095	0.023	7.53E-06	17579
class.Actinobacteria.id.419	rs115554641	C	G	0.053	0.012	7.53E-06	16312
class.Gammaproteobacteria.id.3303	rs1473985	A	T	-0.054	0.012	7.53E-06	16025
class.Actinobacteria.id.419	rs4988145	A	C	0.068	0.015	7.51E-06	16312
class.Mollicutes.id.3920	rs10858095	C	G	-0.066	0.015	7.51E-06	11002
class.Actinobacteria.id.419	rs2243193	G	A	0.058	0.013	7.50E-06	16313
class.Deltaproteobacteria.id.3087	rs3935584	T	C	-0.052	0.012	7.50E-06	15166
class.Actinobacteria.id.419	rs34453673	G	C	0.053	0.012	7.50E-06	16312
class.Mollicutes.id.3920	rs6695482	G	C	-0.066	0.015	7.47E-06	11002
class.Methanobacteria.id.119	rs4753222	G	A	0.111	0.025	7.45E-06	3698
class.Methanobacteria.id.119	rs4257531	A	G	0.164	0.036	7.44E-06	3162
class.Gammaproteobacteria.id.3303	rs6432976	C	T	0.070	0.016	7.44E-06	16015
class.Verrucomicrobiae.id.4029	rs72663769	T	C	0.065	0.015	7.43E-06	11861
class.Verrucomicrobiae.id.4029	rs72663785	C	G	0.066	0.015	7.41E-06	11864
class.Bacilli.id.1673	rs11110281	C	T	-0.101	0.022	7.39E-06	15915
class.Alphaproteobacteria.id.2379	rs34569731	G	A	0.071	0.016	7.38E-06	9115
class.Bacilli.id.1673	rs2975647	G	A	-0.055	0.012	7.37E-06	17373

class.Actinobacteria.id.419	rs134413	C	T	0.104	0.024	7.36E-06	14302
class.Erysipelotrichia.id.2147	rs7906464	T	A	-0.053	0.012	7.35E-06	17789
class.Actinobacteria.id.419	rs6430594	A	G	0.068	0.015	7.33E-06	16312
class.Betaproteobacteria.id.2867	rs320161	G	A	0.057	0.013	7.33E-06	17035
class.Actinobacteria.id.419	rs77985886	C	T	0.088	0.019	7.32E-06	16313
class.Deltaproteobacteria.id.3087	rs72647048	C	T	-0.078	0.017	7.32E-06	15168
class.Coriobacteriia.id.809	rs7303392	C	T	-0.057	0.013	7.32E-06	17688
class.Deltaproteobacteria.id.3087	rs55744759	G	A	-0.078	0.017	7.31E-06	15168
class.Betaproteobacteria.id.2867	rs2906622	T	C	-0.049	0.011	7.28E-06	17144
class.Mollicutes.id.3920	rs4885016	C	T	-0.082	0.018	7.27E-06	11388
class.Actinobacteria.id.419	rs134268	T	C	0.103	0.023	7.25E-06	14300
class.Verrucomicrobiae.id.4029	rs12411321	T	C	0.074	0.017	7.24E-06	11865
class.Actinobacteria.id.419	rs6432655	G	A	0.050	0.011	7.23E-06	16313
class.Bacilli.id.1673	rs2131006	A	G	-0.090	0.020	7.23E-06	16102
class.Bacilli.id.1673	rs12797734	C	T	0.057	0.013	7.21E-06	16902
class.Actinobacteria.id.419	rs72974159	C	T	0.060	0.013	7.21E-06	16182
class.Erysipelotrichia.id.2147	rs921306	C	T	0.049	0.011	7.20E-06	17789
class.Gammaproteobacteria.id.3303	rs12550281	A	G	0.052	0.012	7.18E-06	16024
class.Bacteroidia.id.912	rs2418267	G	A	0.061	0.014	7.16E-06	17523
class.Deltaproteobacteria.id.3087	rs7163129	T	C	-0.057	0.013	7.15E-06	15168
class.Bacilli.id.1673	rs80243853	A	G	-0.101	0.022	7.15E-06	16026
class.Alphaproteobacteria.id.2379	rs12977163	C	G	0.069	0.015	7.14E-06	9115
class.Actinobacteria.id.419	rs79931555	A	G	0.097	0.022	7.13E-06	14487
class.Erysipelotrichia.id.2147	rs35587059	C	T	0.048	0.011	7.13E-06	18207
class.Erysipelotrichia.id.2147	rs41300431	G	A	0.048	0.011	7.12E-06	18216
class.Verrucomicrobiae.id.4029	rs2199602	G	T	0.066	0.015	7.12E-06	11864
class.Melainabacteria.id.1589	rs1221147	A	T	0.124	0.028	7.11E-06	5768
class.Bacteroidia.id.912	rs11146701	G	A	0.047	0.011	7.08E-06	18220
class.Bacteroidia.id.912	rs62575403	T	C	0.140	0.031	7.06E-06	9668
class.Verrucomicrobiae.id.4029	rs12026127	G	A	0.064	0.014	7.05E-06	11861
class.Actinobacteria.id.419	rs4452212	A	G	0.053	0.012	7.01E-06	16313

class.Betaproteobacteria.id.2867	rs2528679	T	C	-0.049	0.011	7.00E-06	17151
class.Actinobacteria.id.419	rs72717440	A	T	0.053	0.012	6.96E-06	16312
class.Mollicutes.id.3920	rs10099240	G	C	0.065	0.014	6.96E-06	11390
class.Gammaproteobacteria.id.3303	rs6720763	T	C	0.061	0.014	6.95E-06	16020
class.Methanobacteria.id.119	rs62241826	T	C	-0.190	0.041	6.95E-06	3383
class.Betaproteobacteria.id.2867	rs2528688	G	A	-0.049	0.011	6.95E-06	17150
class.Actinobacteria.id.419	rs11742144	G	A	0.053	0.012	6.91E-06	16313
class.Bacteroidia.id.912	rs73975618	A	G	-0.189	0.043	6.90E-06	3350
class.Coriobacteriia.id.809	rs8010111	A	G	-0.103	0.023	6.90E-06	15996
class.Melainabacteria.id.1589	rs202201936	C	A	-0.141	0.031	6.88E-06	5436
class.Bacilli.id.1673	rs4260895	A	C	-0.054	0.012	6.87E-06	17377
class.Verrucomicrobiae.id.4029	rs12045978	G	A	0.064	0.014	6.87E-06	11865
class.Gammaproteobacteria.id.3303	rs10171261	G	A	0.065	0.015	6.86E-06	16019
class.Erysipelotrichia.id.2147	rs12258727	T	C	-0.052	0.011	6.86E-06	18201
class.Melainabacteria.id.1589	rs789069	C	A	-0.104	0.023	6.85E-06	5879
class.Actinobacteria.id.419	rs62168833	G	A	0.069	0.015	6.81E-06	16313
class.Methanobacteria.id.119	rs62240390	C	G	-0.189	0.042	6.79E-06	3385
class.Mollicutes.id.3920	rs4282557	C	T	0.065	0.014	6.79E-06	11389
class.Gammaproteobacteria.id.3303	rs13273646	G	A	0.053	0.012	6.78E-06	16024
class.Gammaproteobacteria.id.3303	rs10110536	C	T	-0.054	0.012	6.78E-06	16025
class.Gammaproteobacteria.id.3303	rs9973122	A	T	0.074	0.016	6.77E-06	15650
class.Mollicutes.id.3920	rs6664236	A	C	-0.067	0.015	6.74E-06	10994
class.Verrucomicrobiae.id.4029	rs61779207	A	G	-0.076	0.017	6.72E-06	11591
class.Gammaproteobacteria.id.3303	rs4548204	A	C	-0.054	0.012	6.72E-06	16024
class.Actinobacteria.id.419	rs1376754	A	G	0.051	0.011	6.71E-06	16182
class.Actinobacteria.id.419	rs60253740	G	T	0.070	0.015	6.71E-06	16182
class.Betaproteobacteria.id.2867	rs1419746	G	A	-0.049	0.011	6.69E-06	17146
class.Melainabacteria.id.1589	rs28678345	C	T	0.215	0.047	6.69E-06	4323
class.Mollicutes.id.3920	rs10085973	C	G	0.065	0.014	6.68E-06	11390
class.Actinobacteria.id.419	rs68005421	G	C	0.054	0.012	6.68E-06	16182
class.Bacilli.id.1673	rs9345899	G	A	-0.080	0.018	6.67E-06	16600

class.Betaproteobacteria.id.2867	rs62191107	T	C	0.060	0.013	6.67E-06	17042
class.Gammaproteobacteria.id.3303	rs7017964	G	A	0.053	0.012	6.65E-06	16025
class.Actinobacteria.id.419	rs12187440	G	A	0.053	0.012	6.65E-06	16312
class.Betaproteobacteria.id.2867	rs62191106	C	T	0.060	0.013	6.63E-06	17042
class.Bacilli.id.1673	rs7689028	T	A	-0.051	0.011	6.61E-06	17375
class.Mollicutes.id.3920	rs17214486	A	C	0.061	0.014	6.61E-06	11387
class.Actinobacteria.id.419	rs16832417	C	T	0.071	0.015	6.58E-06	16313
class.Actinobacteria.id.419	rs28815269	A	G	0.053	0.012	6.57E-06	16182
class.Actinobacteria.id.419	rs4988274	T	A	0.070	0.015	6.56E-06	16182
class.Betaproteobacteria.id.2867	rs12867878	G	A	-0.050	0.011	6.55E-06	17151
class.Verrucomicrobiae.id.4029	rs4497215	C	T	0.064	0.014	6.55E-06	11865
class.Bacilli.id.1673	rs34989881	G	A	0.111	0.025	6.55E-06	12966
class.Clostridia.id.1859	rs6934062	C	G	0.052	0.012	6.53E-06	17859
class.Lentisphaeria.id.2250	rs2546105	T	A	0.106	0.023	6.53E-06	4734
class.Methanobacteria.id.119	rs11018665	T	A	0.111	0.025	6.52E-06	3698
class.Actinobacteria.id.419	rs72847647	G	A	-0.056	0.013	6.51E-06	15401
class.Erysipelotrichia.id.2147	rs11146160	A	G	-0.052	0.011	6.47E-06	18204
class.Gammaproteobacteria.id.3303	rs4896254	A	T	-0.054	0.012	6.43E-06	15650
class.Lentisphaeria.id.2250	rs35004924	A	C	0.104	0.024	6.42E-06	4701
class.Gammaproteobacteria.id.3303	rs12692857	G	A	0.065	0.015	6.39E-06	16019
class.Lentisphaeria.id.2250	rs11764871	T	G	0.106	0.023	6.39E-06	4725
class.Mollicutes.id.3920	rs4970754	G	A	-0.067	0.015	6.38E-06	11002
class.Negativicutes.id.2164	rs34058443	T	C	0.060	0.013	6.37E-06	18162
class.Actinobacteria.id.419	rs56104584	T	C	0.054	0.012	6.37E-06	16312
class.Actinobacteria.id.419	rs1056465	T	A	0.054	0.012	6.34E-06	16312
class.Erysipelotrichia.id.2147	rs9852883	C	A	0.048	0.011	6.33E-06	18109
class.Actinobacteria.id.419	rs6889494	C	T	0.053	0.012	6.32E-06	16312
class.Gammaproteobacteria.id.3303	rs6469507	T	C	-0.055	0.012	6.31E-06	16023
class.Bacilli.id.1673	rs7764486	A	G	-0.099	0.022	6.30E-06	16519
class.Actinobacteria.id.419	rs3769023	G	A	0.051	0.011	6.29E-06	16313
class.Actinobacteria.id.419	rs134417	C	A	0.104	0.024	6.28E-06	14302

class.Clostridia.id.1859	rs7731599	T	C	0.050	0.011	6.25E-06	18340
class.Coriobacteriia.id.809	rs7912120	G	A	0.072	0.016	6.24E-06	17691
class.Clostridia.id.1859	rs11167476	C	T	0.050	0.011	6.24E-06	18339
class.Actinobacteria.id.419	rs5001584	G	A	0.052	0.012	6.20E-06	16182
class.Actinobacteria.id.419	rs134411	T	C	0.104	0.024	6.18E-06	14302
class.Methanobacteria.id.119	rs56131665	A	G	0.179	0.039	6.18E-06	3572
class.Bacilli.id.1673	rs12368593	A	C	-0.101	0.022	6.18E-06	16026
class.Clostridia.id.1859	rs11846847	T	A	-0.072	0.015	6.15E-06	18337
class.Erysipelotrichia.id.2147	rs1074800	G	A	0.049	0.011	6.15E-06	17789
class.Bacilli.id.1673	rs11729948	G	A	-0.060	0.013	6.14E-06	17377
class.Mollicutes.id.3920	rs10745352	C	T	-0.067	0.015	6.13E-06	11002
class.Actinobacteria.id.419	rs56042615	G	A	0.054	0.012	6.08E-06	16312
class.Verrucomicrobiae.id.4029	rs7693865	C	T	0.107	0.024	6.08E-06	11216
class.Methanobacteria.id.119	rs12825290	G	C	-0.217	0.049	6.08E-06	3144
class.Gammaproteobacteria.id.3303	rs11775846	G	A	0.053	0.012	6.07E-06	16025
class.Coriobacteriia.id.809	rs7977399	C	T	-0.058	0.013	6.07E-06	17689
class.Actinobacteria.id.419	rs13018756	T	C	0.053	0.012	6.07E-06	16313
class.Methanobacteria.id.119	rs55721046	A	G	-0.191	0.041	6.06E-06	3381
class.Actinobacteria.id.419	rs3769001	A	G	0.069	0.015	6.06E-06	16312
class.Negativicutes.id.2164	rs9423647	A	G	0.048	0.011	6.06E-06	18164
class.Clostridia.id.1859	rs11844758	C	A	-0.071	0.015	6.03E-06	18340
class.Actinobacteria.id.419	rs10165053	T	C	0.053	0.012	6.00E-06	16310
class.Betaproteobacteria.id.2867	rs12477314	C	T	0.060	0.013	5.96E-06	17043
class.Actinobacteria.id.419	rs134419	T	C	0.112	0.025	5.96E-06	14302
class.Mollicutes.id.3920	rs10497163	G	T	0.069	0.015	5.94E-06	11392
class.Actinobacteria.id.419	rs11655079	C	T	-0.056	0.012	5.93E-06	16309
class.Methanobacteria.id.119	rs75208022	T	C	-0.227	0.049	5.92E-06	3203
class.Bacilli.id.1673	rs60533369	C	A	-0.060	0.013	5.91E-06	17377
class.Clostridia.id.1859	rs7964593	T	C	0.051	0.011	5.91E-06	18340
class.Actinobacteria.id.419	rs62168830	A	T	0.069	0.015	5.90E-06	16313
class.Actinobacteria.id.419	rs57530667	A	G	0.069	0.015	5.90E-06	16313

class.Coriobacteriia.id.809	rs4880783	T	G	0.057	0.013	5.90E-06	17691
class.Mollicutes.id.3920	rs78169027	G	A	-0.108	0.024	5.88E-06	10542
class.Betaproteobacteria.id.2867	rs56386628	T	C	-0.062	0.014	5.87E-06	17147
class.Mollicutes.id.3920	rs4970840	G	A	-0.068	0.015	5.85E-06	11002
class.Actinobacteria.id.419	rs134410	C	T	0.104	0.024	5.84E-06	14302
class.Mollicutes.id.3920	rs11102971	T	C	-0.067	0.015	5.84E-06	11002
class.Actinobacteria.id.419	rs134329	G	A	0.106	0.024	5.82E-06	14302
class.Betaproteobacteria.id.2867	rs2321387	A	G	-0.049	0.011	5.80E-06	17149
class.Mollicutes.id.3920	rs3931560	C	A	-0.067	0.015	5.79E-06	11002
class.Bacteroidia.id.912	rs7857688	G	A	0.064	0.014	5.79E-06	17523
class.Erysipelotrichia.id.2147	rs34221479	C	T	0.049	0.011	5.79E-06	18108
class.Actinobacteria.id.419	rs1374289	C	T	0.051	0.011	5.79E-06	16312
class.Gammaproteobacteria.id.3303	rs13266408	T	C	0.053	0.012	5.78E-06	16025
class.Gammaproteobacteria.id.3303	rs2176115	A	G	-0.055	0.012	5.76E-06	16023
class.Mollicutes.id.3920	rs3739327	G	A	0.066	0.014	5.75E-06	10932
class.Betaproteobacteria.id.2867	rs4507125	A	C	0.060	0.013	5.73E-06	17149
class.Actinobacteria.id.419	rs59413285	G	T	0.069	0.015	5.73E-06	16313
class.Actinobacteria.id.419	rs72717432	G	A	0.054	0.012	5.72E-06	16182
class.Actinobacteria.id.419	rs134416	G	A	0.105	0.024	5.70E-06	14302
class.Actinobacteria.id.419	rs2278682	G	C	0.068	0.015	5.69E-06	16312
class.Gammaproteobacteria.id.3303	rs12679016	A	T	0.053	0.012	5.69E-06	16025
class.Deltaproteobacteria.id.3087	rs17084793	A	G	-0.071	0.016	5.69E-06	15164
class.Actinobacteria.id.419	rs12931368	C	T	0.051	0.011	5.68E-06	16308
class.Deltaproteobacteria.id.3087	rs16851319	C	G	-0.071	0.015	5.68E-06	15154
class.Actinobacteria.id.419	rs10187990	A	G	0.051	0.011	5.67E-06	16313
class.Bacilli.id.1673	rs2952176	A	G	-0.055	0.012	5.65E-06	17371
class.Coriobacteriia.id.809	rs76779974	G	C	0.077	0.017	5.63E-06	16419
class.Mollicutes.id.3920	rs11678196	A	G	0.064	0.014	5.61E-06	11392
class.Bacilli.id.1673	rs2952228	C	T	-0.055	0.012	5.57E-06	17373
class.Actinobacteria.id.419	rs2459217	A	G	0.080	0.018	5.55E-06	15420
class.Actinobacteria.id.419	rs73957037	C	A	0.068	0.015	5.55E-06	16311

class.Actinobacteria.id.419	rs134404	T	A	0.107	0.024	5.55E-06	14302
class.Mollicutes.id.3920	rs652651	G	A	-0.067	0.015	5.50E-06	11001
class.Mollicutes.id.3920	rs13020096	T	C	0.064	0.014	5.47E-06	11392
class.Gammaproteobacteria.id.3303	rs10111899	C	T	-0.055	0.012	5.46E-06	16025
class.Methanobacteria.id.119	rs62241828	A	G	-0.193	0.042	5.45E-06	3383
class.Deltaproteobacteria.id.3087	rs2838334	A	G	0.056	0.012	5.45E-06	15168
class.Gammaproteobacteria.id.3303	rs12827899	G	C	-0.061	0.014	5.44E-06	16020
class.Alphaproteobacteria.id.2379	rs12740709	C	A	-0.068	0.015	5.42E-06	9115
class.Gammaproteobacteria.id.3303	rs4281140	G	T	0.053	0.012	5.41E-06	16024
class.Erysipelotrichia.id.2147	rs56970041	G	T	0.072	0.016	5.40E-06	18217
class.Methanobacteria.id.119	rs62241829	C	T	-0.193	0.042	5.39E-06	3383
class.Actinobacteria.id.419	rs4945008	G	A	0.054	0.012	5.39E-06	16313
class.Coriobacteriia.id.809	rs67561917	G	A	-0.071	0.015	5.39E-06	17333
class.Actinobacteria.id.419	rs1947112	A	G	0.051	0.011	5.39E-06	16312
class.Verrucomicrobiae.id.4029	rs72663756	C	T	0.066	0.015	5.39E-06	11860
class.Betaproteobacteria.id.2867	rs7638039	C	T	0.058	0.013	5.39E-06	17132
class.Betaproteobacteria.id.2867	rs76625259	T	G	-0.091	0.020	5.39E-06	16185
class.Gammaproteobacteria.id.3303	rs6994489	C	A	-0.055	0.012	5.37E-06	16024
class.Actinobacteria.id.419	rs56146525	A	C	0.054	0.012	5.37E-06	16312
class.Methanobacteria.id.119	rs62241827	T	G	-0.193	0.042	5.35E-06	3383
class.Verrucomicrobiae.id.4029	rs72663782	G	C	0.066	0.014	5.35E-06	11865
class.Negativicutes.id.2164	rs56249650	C	A	0.048	0.011	5.35E-06	18171
class.Actinobacteria.id.419	rs55842567	G	A	0.054	0.012	5.35E-06	16312
class.Bacilli.id.1673	rs4699544	C	A	-0.060	0.013	5.35E-06	17377
class.Clostridia.id.1859	rs9986136	G	A	0.050	0.011	5.34E-06	18340
class.Bacilli.id.1673	rs2271029	C	A	0.050	0.011	5.33E-06	17377
class.Actinobacteria.id.419	rs75524146	C	T	0.071	0.015	5.28E-06	16313
class.Deltaproteobacteria.id.3087	rs7164160	T	A	-0.058	0.013	5.28E-06	15168
class.Verrucomicrobiae.id.4029	rs6668273	G	A	0.065	0.014	5.26E-06	11864
class.Coriobacteriia.id.809	rs7898585	C	T	0.073	0.016	5.25E-06	17691
class.Actinobacteria.id.419	rs12446319	T	C	0.051	0.011	5.24E-06	16313

class.Actinobacteria.id.419	rs10200263	T	C	0.053	0.012	5.24E-06	16313
class.Bacilli.id.1673	rs80123130	A	G	-0.060	0.013	5.23E-06	17377
class.Gammaproteobacteria.id.3303	rs13281859	C	T	0.053	0.012	5.21E-06	16022
class.Verrucomicrobiae.id.4029	rs3995795	T	C	0.064	0.014	5.19E-06	11690
class.Lentisphaeria.id.2250	rs72640280	G	A	0.220	0.049	5.18E-06	3816
class.Bacteroidia.id.912	rs73846124	G	A	-0.060	0.013	5.11E-06	18334
class.Gammaproteobacteria.id.3303	rs12675001	G	T	0.053	0.012	5.10E-06	16025
class.Verrucomicrobiae.id.4029	rs72663787	G	A	0.066	0.015	5.08E-06	11865
class.Erysipelotrichia.id.2147	rs3804139	C	T	0.049	0.011	5.08E-06	18215
class.Actinobacteria.id.419	rs134394	C	T	0.105	0.024	5.05E-06	14302
class.Actinobacteria.id.419	rs134395	C	A	0.105	0.024	5.05E-06	14302
class.Deltaproteobacteria.id.3087	rs9928243	A	C	-0.054	0.012	5.02E-06	15167
class.Mollicutes.id.3920	rs4970749	A	G	-0.068	0.015	5.01E-06	11002
class.Actinobacteria.id.419	rs6753232	T	C	0.070	0.015	5.00E-06	16313
class.Actinobacteria.id.419	rs134330	G	C	0.107	0.024	4.97E-06	14302
class.Actinobacteria.id.419	rs1515761	C	T	0.076	0.017	4.96E-06	15525
class.Erysipelotrichia.id.2147	rs9990392	T	C	0.049	0.011	4.94E-06	18215
class.Bacteroidia.id.912	rs71322865	C	T	-0.059	0.013	4.90E-06	18334
class.Betaproteobacteria.id.2867	rs976935	C	A	-0.050	0.011	4.89E-06	17144
class.Methanobacteria.id.119	rs11123059	A	G	-0.108	0.023	4.87E-06	3694
class.Actinobacteria.id.419	rs4953938	G	A	0.051	0.011	4.87E-06	16313
class.Verrucomicrobiae.id.4029	rs11724791	G	A	0.066	0.014	4.86E-06	11865
class.Bacilli.id.1673	rs11110282	G	A	-0.101	0.022	4.85E-06	16026
class.Deltaproteobacteria.id.3087	rs62020470	G	A	-0.059	0.013	4.85E-06	15168
class.Betaproteobacteria.id.2867	rs9964679	G	A	0.053	0.011	4.85E-06	17151
class.Verrucomicrobiae.id.4029	rs1605923	T	G	0.066	0.014	4.84E-06	11865
class.Coriobacteriia.id.809	rs1816223	G	A	-0.059	0.013	4.84E-06	17688
class.Actinobacteria.id.419	rs7569447	A	C	0.072	0.016	4.83E-06	16313
class.Coriobacteriia.id.809	rs11250875	C	T	0.061	0.013	4.83E-06	17690
class.Betaproteobacteria.id.2867	rs6087810	C	T	-0.093	0.020	4.82E-06	16184
class.Deltaproteobacteria.id.3087	rs55640204	A	G	-0.092	0.020	4.81E-06	15063

class.Actinobacteria.id.419	rs13024450	T	C	0.054	0.012	4.77E-06	16313
class.Actinobacteria.id.419	rs134389	T	G	0.113	0.025	4.76E-06	14302
class.Betaproteobacteria.id.2867	rs1511453	G	A	0.092	0.020	4.76E-06	17085
class.Bacteroidia.id.912	rs73510188	G	A	-0.110	0.024	4.75E-06	10868
class.Bacteroidia.id.912	rs73510190	G	C	-0.110	0.024	4.75E-06	10868
class.Bacteroidia.id.912	rs929878	T	C	-0.055	0.012	4.73E-06	18334
class.Mollicutes.id.3920	rs10111052	T	G	0.066	0.014	4.70E-06	11390
class.Bacilli.id.1673	rs80327990	A	G	-0.061	0.013	4.70E-06	17377
class.Bacteroidia.id.912	rs34986288	G	A	-0.061	0.014	4.69E-06	18329
class.Verrucomicrobiae.id.4029	rs113653192	C	T	0.108	0.024	4.68E-06	11216
class.Erysipelotrichia.id.2147	rs3804140	C	T	0.049	0.011	4.68E-06	18215
class.Clostridia.id.1859	rs10774378	C	T	0.052	0.011	4.68E-06	18339
class.Methanobacteria.id.119	rs62241839	A	G	-0.195	0.042	4.68E-06	3383
class.Betaproteobacteria.id.2867	rs2040996	C	T	-0.050	0.011	4.66E-06	17142
class.Actinobacteria.id.419	rs56271357	C	T	0.051	0.011	4.66E-06	16313
class.Coriobacteriia.id.809	rs80046645	G	C	0.256	0.056	4.66E-06	3204
class.Bacteroidia.id.912	rs7157380	G	C	0.096	0.021	4.63E-06	17297
class.Deltaproteobacteria.id.3087	rs112381107	T	C	0.207	0.046	4.63E-06	4457
class.Verrucomicrobiae.id.4029	rs59317921	C	T	0.063	0.014	4.62E-06	11793
class.Betaproteobacteria.id.2867	rs2528678	C	T	-0.050	0.011	4.62E-06	17151
class.Methanobacteria.id.119	rs62241837	G	A	-0.195	0.042	4.61E-06	3383
class.Methanobacteria.id.119	rs62241838	T	C	-0.195	0.042	4.61E-06	3383
class.Actinobacteria.id.419	rs11150406	T	C	0.053	0.012	4.61E-06	16182
class.Actinobacteria.id.419	rs309157	G	A	0.071	0.015	4.60E-06	16313
class.Methanobacteria.id.119	rs62241832	G	A	-0.196	0.042	4.58E-06	3383
class.Bacilli.id.1673	rs12595929	C	T	0.057	0.013	4.57E-06	17377
class.Actinobacteria.id.419	rs3769016	A	G	0.070	0.015	4.57E-06	16313
class.Mollicutes.id.3920	rs6043847	C	T	-0.115	0.025	4.55E-06	11130
class.Methanobacteria.id.119	rs62241845	T	A	-0.195	0.042	4.55E-06	3383
class.Methanobacteria.id.119	rs62241844	G	C	-0.195	0.042	4.55E-06	3383
class.Gammaproteobacteria.id.3303	rs9494710	T	C	-0.055	0.012	4.55E-06	15650

class.Actinobacteria.id.419	rs134392	C	T	0.105	0.024	4.54E-06	14302
class.Betaproteobacteria.id.2867	rs2528681	G	C	-0.050	0.011	4.53E-06	17151
class.Methanobacteria.id.119	rs7635580	G	A	-0.193	0.042	4.53E-06	3385
class.Clostridia.id.1859	rs2273429	G	A	-0.072	0.015	4.52E-06	18337
class.Mollicutes.id.3920	rs12711448	T	C	-0.068	0.015	4.51E-06	11002
class.Actinobacteria.id.419	rs309113	C	A	0.068	0.015	4.50E-06	16312
class.Methanobacteria.id.119	rs56001610	G	A	-0.195	0.042	4.49E-06	3383
class.Mollicutes.id.3920	rs638542	A	G	-0.068	0.015	4.49E-06	10999
class.Bacilli.id.1673	rs113280052	T	C	-0.103	0.022	4.48E-06	15836
class.Actinobacteria.id.419	rs6430612	T	C	0.054	0.012	4.46E-06	16313
class.Actinobacteria.id.419	rs28579	G	C	0.105	0.024	4.45E-06	14302
class.Betaproteobacteria.id.2867	rs4591362	G	A	0.061	0.013	4.44E-06	17043
class.Actinobacteria.id.419	rs134393	C	T	0.105	0.024	4.43E-06	14302
class.Melainabacteria.id.1589	rs12746891	A	G	-0.085	0.019	4.43E-06	5884
class.Actinobacteria.id.419	rs10166142	A	G	0.052	0.011	4.42E-06	16313
class.Negativicutes.id.2164	rs56188349	C	T	-0.064	0.014	4.41E-06	17610
class.Betaproteobacteria.id.2867	rs36119524	C	T	0.061	0.013	4.40E-06	17042
class.Negativicutes.id.2164	rs2354569	T	C	-0.049	0.011	4.39E-06	18166
class.Actinobacteria.id.419	rs309154	C	T	0.071	0.015	4.39E-06	16313
class.Gammaproteobacteria.id.3303	rs7000905	C	T	0.053	0.012	4.39E-06	16025
class.Actinobacteria.id.419	rs3814354	G	A	0.052	0.011	4.38E-06	16313
class.Lentisphaeria.id.2250	rs2031282	G	A	0.122	0.027	4.38E-06	4734
class.Actinobacteria.id.419	rs134407	G	A	0.113	0.025	4.34E-06	14302
class.Actinobacteria.id.419	rs76380759	G	A	0.070	0.015	4.34E-06	16313
class.Mollicutes.id.3920	rs11783174	G	T	0.067	0.014	4.33E-06	11390
class.Actinobacteria.id.419	rs108272	C	G	0.106	0.024	4.33E-06	14302
class.Actinobacteria.id.419	rs139939202	G	A	0.072	0.015	4.33E-06	16311
class.Actinobacteria.id.419	rs134409	G	A	0.106	0.024	4.33E-06	14302
class.Actinobacteria.id.419	rs134408	A	G	0.106	0.024	4.33E-06	14302
class.Actinobacteria.id.419	rs1438303	C	T	0.070	0.015	4.33E-06	16313
class.Bacteroidia.id.912	rs60475411	T	C	-0.060	0.013	4.32E-06	18323

class.Betaproteobacteria.id.2867	rs8119189	C	A	-0.093	0.020	4.31E-06	16185
class.Verrucomicrobiae.id.4029	rs12501826	G	C	0.066	0.014	4.30E-06	11865
class.Bacilli.id.1673	rs4459992	C	T	0.054	0.012	4.30E-06	17362
class.Bacteroidia.id.912	rs13291434	C	T	0.069	0.015	4.28E-06	17400
class.Actinobacteria.id.419	rs134400	G	A	0.106	0.024	4.28E-06	14302
class.Bacilli.id.1673	rs6813875	G	A	-0.061	0.013	4.26E-06	17377
class.Negativicutes.id.2164	rs34660854	G	A	0.061	0.013	4.26E-06	18169
class.Lentisphaeria.id.2250	rs2731834	G	C	0.109	0.024	4.24E-06	4733
class.Verrucomicrobiae.id.4029	rs6832927	C	A	0.108	0.024	4.23E-06	11216
class.Mollicutes.id.3920	rs3768491	G	A	-0.068	0.015	4.23E-06	11002
class.Erysipelotrichia.id.2147	rs4078432	T	C	-0.061	0.013	4.23E-06	17789
class.Betaproteobacteria.id.2867	rs1544475	C	T	-0.050	0.011	4.22E-06	17151
class.Mollicutes.id.3920	rs6986129	A	T	0.066	0.014	4.19E-06	11391
class.Negativicutes.id.2164	rs4736971	C	A	-0.049	0.011	4.19E-06	18165
class.Bacteroidia.id.912	rs73510192	T	C	-0.111	0.024	4.18E-06	10868
class.Erysipelotrichia.id.2147	rs12357537	T	C	-0.054	0.012	4.15E-06	17789
class.Negativicutes.id.2164	rs4236917	G	C	-0.049	0.011	4.15E-06	18165
class.Gammaproteobacteria.id.3303	rs998899	C	T	0.060	0.013	4.14E-06	16019
class.Verrucomicrobiae.id.4029	rs11184341	C	G	0.066	0.014	4.13E-06	11864
class.Mollicutes.id.3920	rs28809811	G	T	0.068	0.015	4.12E-06	11385
class.Actinobacteria.id.419	rs134396	G	T	0.106	0.024	4.11E-06	14302
class.Erysipelotrichia.id.2147	rs8003149	T	C	0.054	0.012	4.08E-06	18213
class.Actinobacteria.id.419	rs2413311	C	T	0.106	0.024	4.06E-06	14302
class.Lentisphaeria.id.2250	rs17114848	A	G	0.152	0.032	4.06E-06	4734
class.Actinobacteria.id.419	rs72711368	C	T	0.055	0.012	4.06E-06	16182
class.Bacilli.id.1673	rs9445784	C	T	-0.100	0.022	4.05E-06	16516
class.Actinobacteria.id.419	rs134387	T	C	0.106	0.024	4.05E-06	14302
class.Bacteroidia.id.912	rs13097740	G	A	-0.060	0.013	4.05E-06	18332
class.Mollicutes.id.3920	rs6981601	C	T	0.066	0.014	4.05E-06	11391
class.Erysipelotrichia.id.2147	rs4617508	T	A	-0.053	0.011	4.04E-06	18197
class.Bacteroidia.id.912	rs35665203	T	C	-0.061	0.013	4.04E-06	18334

class.Erysipelotrichia.id.2147	rs7911287	G	T	-0.053	0.011	4.03E-06	18198
class.Actinobacteria.id.419	rs134383	A	G	0.114	0.025	4.03E-06	14302
class.Actinobacteria.id.419	rs12899991	T	A	0.072	0.015	4.03E-06	16182
class.Actinobacteria.id.419	rs7599898	C	T	0.070	0.015	4.02E-06	16313
class.Erysipelotrichia.id.2147	rs7095708	T	C	-0.053	0.011	4.01E-06	18197
class.Actinobacteria.id.419	rs4594504	A	C	0.070	0.015	4.00E-06	16312
class.Actinobacteria.id.419	rs134385	T	C	0.114	0.025	3.98E-06	14302
class.Clostridia.id.1859	rs4764517	T	C	0.052	0.011	3.97E-06	18331
class.Gammaproteobacteria.id.3303	rs1399856	C	A	0.054	0.012	3.96E-06	16022
class.Deltaproteobacteria.id.3087	rs11599763	C	T	-0.054	0.012	3.94E-06	15168
class.Bacteroidia.id.912	rs1996068	A	G	-0.060	0.013	3.94E-06	18332
class.Verrucomicrobiae.id.4029	rs12498518	C	T	0.067	0.014	3.94E-06	11865
class.Actinobacteria.id.419	rs134391	C	T	0.107	0.024	3.90E-06	14302
class.Actinobacteria.id.419	rs134283	G	A	0.107	0.023	3.90E-06	14302
class.Erysipelotrichia.id.2147	rs55764236	T	G	-0.054	0.012	3.89E-06	17789
class.Actinobacteria.id.419	rs4888173	A	G	0.053	0.012	3.88E-06	16182
class.Coriobacteriia.id.809	rs34739816	T	G	0.097	0.021	3.88E-06	16593
class.Verrucomicrobiae.id.4029	rs77055143	C	T	0.067	0.014	3.88E-06	11865
class.Actinobacteria.id.419	rs895285	A	G	0.072	0.015	3.87E-06	16313
class.Actinobacteria.id.419	rs134347	C	T	0.108	0.023	3.86E-06	14302
class.Mollicutes.id.3920	rs12476593	C	G	0.073	0.016	3.84E-06	11371
class.Negativicutes.id.2164	rs12112489	C	T	0.049	0.011	3.84E-06	18171
class.Actinobacteria.id.419	rs1435577	C	G	0.070	0.015	3.83E-06	16312
class.Gammaproteobacteria.id.3303	rs7589167	C	T	0.067	0.015	3.81E-06	16022
class.Actinobacteria.id.419	rs4312299	G	C	0.054	0.012	3.81E-06	16308
class.Actinobacteria.id.419	rs4954559	A	G	0.060	0.013	3.80E-06	16182
class.Gammaproteobacteria.id.3303	rs6984998	C	T	-0.056	0.012	3.79E-06	16025
class.Actinobacteria.id.419	rs11674937	G	C	0.060	0.013	3.78E-06	16313
class.Actinobacteria.id.419	rs62168897	C	T	0.052	0.011	3.77E-06	16312
class.Betaproteobacteria.id.2867	rs1122678	T	C	-0.050	0.011	3.76E-06	17151
class.Actinobacteria.id.419	rs11743825	C	T	0.054	0.012	3.75E-06	16313

class.Bacteroidia.id.912	rs13291169	G	C	0.069	0.015	3.75E-06	17513
class.Erysipelotrichia.id.2147	rs9877119	G	A	0.049	0.011	3.74E-06	18217
class.Betaproteobacteria.id.2867	rs2528680	C	T	-0.050	0.011	3.74E-06	17151
class.Verrucomicrobiae.id.4029	rs111862613	C	T	0.091	0.020	3.74E-06	11621
class.Actinobacteria.id.419	rs134381	C	T	0.107	0.024	3.68E-06	14302
class.Betaproteobacteria.id.2867	rs11128180	G	A	0.059	0.013	3.67E-06	17151
class.Gammaproteobacteria.id.3303	rs12545601	A	C	0.054	0.012	3.66E-06	16025
class.Betaproteobacteria.id.2867	rs6686895	A	G	0.051	0.011	3.66E-06	17149
class.Mollicutes.id.3920	rs12566890	G	T	-0.101	0.023	3.65E-06	11371
class.Actinobacteria.id.419	rs134376	A	G	0.108	0.024	3.64E-06	14302
class.Actinobacteria.id.419	rs111837148	G	A	0.071	0.015	3.64E-06	16312
class.Bacilli.id.1673	rs80205102	T	C	-0.061	0.013	3.63E-06	17377
class.Erysipelotrichia.id.2147	rs9859260	T	C	0.049	0.011	3.63E-06	18217
class.Mollicutes.id.3920	rs10094910	T	C	0.067	0.014	3.61E-06	11390
class.Actinobacteria.id.419	rs6708336	T	A	0.052	0.011	3.60E-06	16313
class.Alphaproteobacteria.id.2379	rs10803433	G	T	-0.069	0.015	3.60E-06	9115
class.Methanobacteria.id.119	rs9942109	G	A	-0.197	0.042	3.60E-06	3383
class.Negativicutes.id.2164	rs34884022	A	G	0.049	0.011	3.60E-06	18164
class.Gammaproteobacteria.id.3303	rs4421375	C	T	0.054	0.012	3.59E-06	16024
class.Deltaproteobacteria.id.3087	rs4506934	T	C	-0.094	0.020	3.59E-06	15061
class.Bacilli.id.1673	rs2975635	C	T	-0.056	0.012	3.58E-06	17371
class.Actinobacteria.id.419	rs3814355	C	T	0.052	0.011	3.58E-06	16313
class.Alphaproteobacteria.id.2379	rs10803434	T	A	-0.069	0.015	3.55E-06	9115
class.Actinobacteria.id.419	rs2034261	G	T	0.052	0.011	3.52E-06	16313
class.Actinobacteria.id.419	rs134374	T	C	0.108	0.024	3.50E-06	14302
class.Verrucomicrobiae.id.4029	rs12416161	C	T	0.076	0.017	3.50E-06	11864
class.Mollicutes.id.3920	rs12676593	A	G	0.067	0.014	3.49E-06	11390
class.Gammaproteobacteria.id.3303	rs10467189	T	C	-0.062	0.014	3.46E-06	16025
class.Mollicutes.id.3920	rs13015145	G	A	0.071	0.015	3.45E-06	11392
class.Actinobacteria.id.419	rs134373	C	T	0.108	0.023	3.45E-06	14302
class.Actinobacteria.id.419	rs10221893	T	C	0.054	0.012	3.44E-06	16313

class.Verrucomicrobiae.id.4029	rs6832119	A	G	0.109	0.024	3.44E-06	11216
class.Bacteroidia.id.912	rs2875575	G	C	-0.112	0.024	3.44E-06	11349
class.Bacteroidia.id.912	rs6791217	G	T	-0.061	0.013	3.44E-06	18332
class.Mollicutes.id.3920	rs59979442	A	G	0.067	0.014	3.43E-06	11390
class.Methanobacteria.id.119	rs58106718	A	T	-0.193	0.041	3.43E-06	3385
class.Mollicutes.id.3920	rs7011095	T	A	0.068	0.014	3.41E-06	11390
class.Actinobacteria.id.419	rs4072435	T	C	0.054	0.012	3.40E-06	16313
class.Erysipelotrichia.id.2147	rs11718657	A	C	0.050	0.011	3.40E-06	18217
class.Erysipelotrichia.id.2147	rs11185506	C	G	0.050	0.011	3.40E-06	18217
class.Actinobacteria.id.419	rs134377	G	A	0.108	0.024	3.40E-06	14302
class.Mollicutes.id.3920	rs10090964	A	T	0.067	0.014	3.39E-06	11391
class.Clostridia.id.1859	rs13179700	C	T	0.051	0.011	3.37E-06	18338
class.Bacteroidia.id.912	rs6777119	T	C	-0.061	0.013	3.35E-06	18334
class.Negativicutes.id.2164	rs72643860	A	G	-0.050	0.011	3.35E-06	18166
class.Actinobacteria.id.419	rs4888172	G	A	0.054	0.012	3.35E-06	16182
class.Bacteroidia.id.912	rs1888899	C	T	-0.112	0.024	3.35E-06	11349
class.Actinobacteria.id.419	rs61253125	T	C	0.071	0.015	3.35E-06	16312
class.Methanobacteria.id.119	rs62240380	C	T	-0.193	0.041	3.32E-06	3385
class.Actinobacteria.id.419	rs3099429	T	A	0.070	0.015	3.32E-06	16313
class.Erysipelotrichia.id.2147	rs3761717	C	G	0.050	0.011	3.30E-06	18217
class.Betaproteobacteria.id.2867	rs1410861	A	G	0.051	0.011	3.29E-06	17150
class.Melainabacteria.id.1589	rs79790072	C	T	0.227	0.049	3.29E-06	4107
class.Gammaproteobacteria.id.3303	rs6469506	A	T	0.054	0.012	3.29E-06	16023
class.Actinobacteria.id.419	rs4072434	G	C	0.054	0.012	3.29E-06	16313
class.Bacteroidia.id.912	rs17085791	G	C	-0.111	0.024	3.28E-06	11349
class.Negativicutes.id.2164	rs12113541	A	G	0.049	0.011	3.28E-06	18163
class.Actinobacteria.id.419	rs2230437	C	T	0.054	0.011	3.27E-06	16312
class.Mollicutes.id.3920	rs72901605	C	T	-0.084	0.018	3.26E-06	10526
class.Mollicutes.id.3920	rs7009374	C	T	0.067	0.014	3.26E-06	11391
class.Gammaproteobacteria.id.3303	rs1346722	T	C	0.061	0.013	3.25E-06	16021
class.Clostridia.id.1859	rs10774377	G	A	0.053	0.011	3.24E-06	18330

class.Bacilli.id.1673	rs11248956	T	C	0.058	0.013	3.22E-06	17377
class.Actinobacteria.id.419	rs2413312	G	A	0.108	0.023	3.22E-06	14302
class.Betaproteobacteria.id.2867	rs2094636	C	G	0.051	0.011	3.22E-06	17150
class.Negativicutes.id.2164	rs35636125	A	G	0.049	0.011	3.21E-06	18171
class.Actinobacteria.id.419	rs4988163	G	T	0.071	0.015	3.20E-06	16312
class.Methanobacteria.id.119	rs3923545	G	C	0.207	0.045	3.20E-06	3498
class.Bacteroidia.id.912	rs13060907	G	A	-0.061	0.013	3.17E-06	18332
class.Mollicutes.id.3920	rs10113750	C	T	0.067	0.014	3.15E-06	11392
class.Mollicutes.id.3920	rs10099912	G	T	0.068	0.014	3.14E-06	11390
class.Deltaproteobacteria.id.3087	rs2692012	G	A	0.110	0.025	3.14E-06	13104
class.Actinobacteria.id.419	rs79176913	C	A	0.071	0.015	3.14E-06	16312
class.Bacteroidia.id.912	rs59082732	T	G	-0.112	0.024	3.13E-06	11349
class.Melainabacteria.id.1589	rs7549147	G	A	-0.086	0.019	3.13E-06	5883
class.Actinobacteria.id.419	rs134339	G	A	0.109	0.024	3.12E-06	14302
class.Negativicutes.id.2164	rs9929374	A	G	-0.050	0.011	3.11E-06	18171
class.Gammaproteobacteria.id.3303	rs61926436	A	C	-0.062	0.014	3.10E-06	16020
class.Bacteroidia.id.912	rs17026821	T	C	-0.061	0.013	3.09E-06	18334
class.Mollicutes.id.3920	rs12335008	T	A	0.068	0.014	3.08E-06	11390
class.Bacteroidia.id.912	rs17026797	G	T	-0.061	0.013	3.07E-06	18332
class.Actinobacteria.id.419	rs134282	A	G	0.108	0.023	3.07E-06	14302
class.Methanobacteria.id.119	rs62240388	A	G	-0.196	0.042	3.06E-06	3342
class.Verrucomicrobiae.id.4029	rs2169719	A	G	0.068	0.015	3.06E-06	11859
class.Erysipelotrichia.id.2147	rs13072608	T	C	0.050	0.011	3.05E-06	18217
class.Actinobacteria.id.419	rs6750549	A	G	0.071	0.015	3.05E-06	16182
class.Actinobacteria.id.419	rs134302	T	C	0.108	0.023	3.04E-06	14302
class.Actinobacteria.id.419	rs134309	G	A	0.108	0.023	3.03E-06	14302
class.Actinobacteria.id.419	rs1960171	C	T	0.059	0.012	3.03E-06	16182
class.Bacteroidia.id.912	rs2183908	T	C	-0.111	0.024	3.03E-06	11349
class.Gammaproteobacteria.id.3303	rs7569147	G	A	0.065	0.014	3.01E-06	16019
class.Mollicutes.id.3920	rs9297995	C	T	0.067	0.014	3.00E-06	11391
class.Bacteroidia.id.912	rs13100590	T	C	-0.061	0.013	3.00E-06	18334

class.Actinobacteria.id.419	rs7581814	C	G	0.071	0.015	2.98E-06	16312
class.Methanobacteria.id.119	rs6541968	T	C	-0.111	0.024	2.96E-06	3698
class.Negativicutes.id.2164	rs61249479	C	A	0.078	0.017	2.95E-06	18165
class.Betaproteobacteria.id.2867	rs62395635	C	T	0.110	0.024	2.94E-06	15108
class.Verrucomicrobiae.id.4029	rs11252894	C	A	0.077	0.017	2.94E-06	11864
class.Negativicutes.id.2164	rs1447205	C	G	-0.050	0.011	2.93E-06	18165
class.Actinobacteria.id.419	rs309172	A	G	0.069	0.015	2.93E-06	16313
class.Actinobacteria.id.419	rs309150	T	A	0.070	0.015	2.92E-06	16313
class.Actinobacteria.id.419	rs134310	T	A	0.108	0.023	2.92E-06	14302
class.Verrucomicrobiae.id.4029	rs117107102	G	A	0.205	0.043	2.92E-06	4975
class.Actinobacteria.id.419	rs80261410	T	C	0.062	0.013	2.91E-06	16182
class.Bacteroidia.id.912	rs17085785	C	T	-0.112	0.024	2.91E-06	11349
class.Actinobacteria.id.419	rs12928452	C	A	0.054	0.012	2.89E-06	16307
class.Actinobacteria.id.419	rs134305	G	A	0.108	0.023	2.88E-06	14302
class.Melainabacteria.id.1589	rs73074665	T	A	0.166	0.036	2.87E-06	5758
class.Actinobacteria.id.419	rs134304	T	C	0.108	0.023	2.86E-06	14302
class.Actinobacteria.id.419	rs503227	T	C	0.071	0.015	2.85E-06	16312
class.Methanobacteria.id.119	rs62241836	C	T	-0.199	0.042	2.84E-06	3383
class.Mollicutes.id.3920	rs10099153	C	G	0.068	0.014	2.83E-06	11389
class.Erysipelotrichia.id.2147	rs2300773	A	G	0.050	0.011	2.82E-06	18216
class.Actinobacteria.id.419	rs2289959	C	T	0.069	0.015	2.82E-06	16313
class.Bacteroidia.id.912	rs17085765	G	C	-0.113	0.024	2.81E-06	11349
class.Bacilli.id.1673	rs78368499	C	T	-0.102	0.022	2.81E-06	16519
class.Bacteroidia.id.912	rs75808613	G	A	-0.112	0.024	2.81E-06	11349
class.Bacteroidia.id.912	rs78745799	G	T	-0.112	0.024	2.81E-06	11349
class.Actinobacteria.id.419	rs134292	A	G	0.108	0.023	2.80E-06	14302
class.Actinobacteria.id.419	rs12472293	T	C	0.070	0.015	2.79E-06	16313
class.Erysipelotrichia.id.2147	rs17530232	G	A	0.103	0.022	2.79E-06	16622
class.Actinobacteria.id.419	rs7561565	T	G	0.071	0.015	2.79E-06	16312
class.Actinobacteria.id.419	rs3112496	C	T	0.070	0.015	2.79E-06	16313
class.Clostridia.id.1859	rs6508055	G	A	-0.059	0.013	2.76E-06	18340

class.Betaproteobacteria.id.2867	rs10047202	C	T	0.052	0.011	2.76E-06	17150
class.Lentisphaeria.id.2250	rs112022900	G	A	0.218	0.046	2.76E-06	4092
class.Mollicutes.id.3920	rs72647435	G	T	0.068	0.014	2.76E-06	11390
class.Lentisphaeria.id.2250	rs45621736	G	A	0.218	0.046	2.75E-06	4093
class.Methanobacteria.id.119	rs62240373	G	A	-0.199	0.042	2.75E-06	3383
class.Actinobacteria.id.419	rs134323	A	C	0.110	0.024	2.75E-06	14302
class.Actinobacteria.id.419	rs4988201	A	G	0.072	0.015	2.75E-06	16312
class.Bacteroidia.id.912	rs74090642	A	G	-0.113	0.024	2.72E-06	11349
class.Bacteroidia.id.912	rs12496485	G	A	-0.062	0.013	2.72E-06	18334
class.Mollicutes.id.3920	rs13027493	T	A	0.071	0.015	2.71E-06	11391
class.Erysipelotrichia.id.2147	rs9859401	A	C	0.050	0.011	2.70E-06	18217
class.Bacteroidia.id.912	rs35176045	C	T	-0.061	0.013	2.70E-06	18334
class.Actinobacteria.id.419	rs73958638	A	G	0.106	0.023	2.70E-06	12433
class.Actinobacteria.id.419	rs134287	A	C	0.109	0.023	2.68E-06	14302
class.Bacteroidia.id.912	rs34046877	T	C	-0.061	0.013	2.67E-06	18323
class.Bacteroidia.id.912	rs17085756	G	A	-0.113	0.024	2.66E-06	11349
class.Bacteroidia.id.912	rs17085776	A	G	-0.113	0.024	2.65E-06	11349
class.Verrucomicrobiae.id.4029	rs4242783	A	G	0.069	0.015	2.64E-06	11690
class.Actinobacteria.id.419	rs11738544	G	A	0.055	0.012	2.62E-06	16182
class.Mollicutes.id.3920	rs1583269	C	G	0.072	0.015	2.62E-06	11390
class.Bacteroidia.id.912	rs2346324	A	G	-0.062	0.013	2.62E-06	18334
class.Mollicutes.id.3920	rs55774738	T	C	0.067	0.014	2.61E-06	11391
class.Actinobacteria.id.419	rs2883034	A	G	0.062	0.013	2.61E-06	16182
class.Bacteroidia.id.912	rs3946805	A	G	-0.062	0.013	2.60E-06	18334
class.Bacteroidia.id.912	rs17085809	A	G	-0.113	0.024	2.60E-06	11349
class.Mollicutes.id.3920	rs7825996	A	T	0.068	0.014	2.60E-06	11390
class.Actinobacteria.id.419	rs10841473	C	G	-0.058	0.012	2.59E-06	16311
class.Verrucomicrobiae.id.4029	rs2602429	T	C	0.075	0.016	2.58E-06	11690
class.Negativicutes.id.2164	rs35924322	A	G	0.050	0.011	2.58E-06	18170
class.Bacteroidia.id.912	rs1325597	G	T	-0.056	0.012	2.57E-06	18334
class.Actinobacteria.id.419	rs72767435	C	T	-0.126	0.027	2.57E-06	12898

class.Actinobacteria.id.419	rs12935228	A	G	0.054	0.012	2.57E-06	16182
class.Melainabacteria.id.1589	rs10817461	A	T	0.088	0.019	2.56E-06	5887
class.Methanobacteria.id.119	rs9594530	T	C	0.210	0.045	2.55E-06	3498
class.Mollicutes.id.3920	rs7014398	C	T	0.068	0.014	2.55E-06	11392
class.Verrucomicrobiae.id.4029	rs9349825	G	A	-0.070	0.015	2.54E-06	11858
class.Bacteroidia.id.912	rs1555070	C	T	-0.056	0.012	2.53E-06	18329
class.Methanobacteria.id.119	rs56209241	G	A	-0.202	0.042	2.53E-06	3340
class.Bacteroidia.id.912	rs7491419	T	G	-0.113	0.024	2.53E-06	11349
class.Actinobacteria.id.419	rs78364332	T	C	0.071	0.015	2.51E-06	16312
class.Actinobacteria.id.419	rs4954558	A	G	0.062	0.013	2.50E-06	16182
class.Actinobacteria.id.419	rs11859935	G	A	0.055	0.012	2.50E-06	16307
class.Actinobacteria.id.419	rs3099427	A	G	0.070	0.015	2.49E-06	16313
class.Actinobacteria.id.419	rs309142	T	C	0.069	0.015	2.49E-06	16313
class.Actinobacteria.id.419	rs3099428	C	G	0.070	0.015	2.49E-06	16313
class.Bacteroidia.id.912	rs7320487	T	C	-0.112	0.024	2.48E-06	11349
class.Bacteroidia.id.912	rs7319197	A	G	-0.112	0.024	2.48E-06	11349
class.Verrucomicrobiae.id.4029	rs1491244	A	T	0.111	0.024	2.47E-06	11216
class.Negativicutes.id.2164	rs56371515	G	C	0.050	0.011	2.47E-06	18164
class.Negativicutes.id.2164	rs35797647	C	G	0.050	0.011	2.47E-06	18171
class.Actinobacteria.id.419	rs4889375	A	C	0.055	0.012	2.47E-06	16182
class.Actinobacteria.id.419	rs134285	T	C	0.109	0.023	2.47E-06	14302
class.Actinobacteria.id.419	rs2176718	A	G	0.057	0.012	2.45E-06	16309
class.Methanobacteria.id.119	rs62241834	G	T	-0.201	0.042	2.44E-06	3383
class.Actinobacteria.id.419	rs134290	C	G	0.109	0.023	2.44E-06	14302
class.Actinobacteria.id.419	rs134291	G	A	0.109	0.023	2.44E-06	14302
class.Coriobacteriia.id.809	rs10995776	C	T	0.082	0.017	2.44E-06	17691
class.Actinobacteria.id.419	rs134301	T	C	0.109	0.023	2.44E-06	14302
class.Actinobacteria.id.419	rs309171	G	C	0.071	0.015	2.44E-06	16313
class.Methanobacteria.id.119	rs4848258	A	T	-0.112	0.024	2.44E-06	3695
class.Actinobacteria.id.419	rs134300	G	A	0.109	0.023	2.43E-06	14302
class.Gammaproteobacteria.id.3303	rs1849782	G	A	-0.063	0.014	2.43E-06	16025

class.Bacteroidia.id.912	rs1040016	G	T	-0.062	0.013	2.43E-06	18334
class.Bacilli.id.1673	rs12642660	G	A	-0.075	0.015	2.42E-06	17374
class.Actinobacteria.id.419	rs134288	C	G	0.109	0.023	2.42E-06	14302
class.Bacteroidia.id.912	rs71322864	C	A	-0.062	0.013	2.42E-06	18323
class.Mollicutes.id.3920	rs6867857	C	A	0.122	0.027	2.42E-06	10391
class.Bacilli.id.1673	rs11967379	C	T	-0.103	0.022	2.40E-06	16519
class.Bacteroidia.id.912	rs2346325	A	G	-0.062	0.013	2.40E-06	18334
class.Actinobacteria.id.419	rs2839740	G	T	0.073	0.015	2.40E-06	16312
class.Mollicutes.id.3920	rs28429491	C	T	0.068	0.014	2.39E-06	11392
class.Bacteroidia.id.912	rs11916939	G	A	-0.062	0.013	2.39E-06	18334
class.Actinobacteria.id.419	rs10871420	A	G	0.055	0.012	2.38E-06	16313
class.Bacteroidia.id.912	rs60954548	A	G	-0.113	0.024	2.38E-06	11349
class.Actinobacteria.id.419	rs660002	C	T	0.069	0.015	2.37E-06	16313
class.Erysipelotrichia.id.2147	rs9867473	C	A	0.050	0.011	2.36E-06	18089
class.Bacteroidia.id.912	rs7337151	A	C	-0.113	0.024	2.35E-06	11349
class.Actinobacteria.id.419	rs112758679	A	C	0.071	0.015	2.35E-06	16313
class.Actinobacteria.id.419	rs309162	T	A	0.071	0.015	2.34E-06	16313
class.Betaproteobacteria.id.2867	rs10788864	A	T	0.052	0.011	2.33E-06	17142
class.Melainabacteria.id.1589	rs10739388	T	C	0.088	0.019	2.33E-06	5887
class.Erysipelotrichia.id.2147	rs10781552	T	C	-0.055	0.012	2.33E-06	17789
class.Actinobacteria.id.419	rs134293	C	T	0.109	0.023	2.33E-06	14302
class.Actinobacteria.id.419	rs79954860	A	T	0.109	0.023	2.33E-06	13514
class.Bacteroidia.id.912	rs34922683	G	T	-0.062	0.013	2.32E-06	18334
class.Verrucomicrobiae.id.4029	rs56161035	C	T	0.068	0.014	2.32E-06	11865
class.Actinobacteria.id.419	rs309167	C	T	0.073	0.015	2.31E-06	16313
class.Actinobacteria.id.419	rs113974791	T	G	0.071	0.015	2.31E-06	16313
class.Bacteroidia.id.912	rs60814075	C	T	-0.113	0.024	2.31E-06	11349
class.Bacteroidia.id.912	rs74090626	A	G	-0.113	0.024	2.30E-06	11349
class.Bacilli.id.1673	rs9445783	A	T	-0.103	0.022	2.29E-06	16519
class.Betaproteobacteria.id.2867	rs11683769	A	T	0.062	0.013	2.29E-06	17043
class.Methanobacteria.id.119	rs11147839	G	A	0.211	0.044	2.28E-06	3499

class.Bacilli.id.1673	rs4293791	T	C	-0.063	0.013	2.25E-06	17376
class.Mollicutes.id.3920	rs7590919	G	A	0.072	0.015	2.25E-06	11387
class.Betaproteobacteria.id.2867	rs11679161	C	T	0.062	0.013	2.25E-06	17043
class.Mollicutes.id.3920	rs7009248	A	G	0.068	0.014	2.24E-06	11392
class.Actinobacteria.id.419	rs614193	A	T	0.071	0.015	2.24E-06	16312
class.Bacteroidia.id.912	rs907713	A	C	-0.062	0.013	2.24E-06	18334
class.Actinobacteria.id.419	rs3087343	T	G	0.072	0.015	2.23E-06	16312
class.Melainabacteria.id.1589	rs7859354	C	T	0.088	0.019	2.23E-06	5887
class.Mollicutes.id.3920	rs7817515	T	G	0.068	0.014	2.23E-06	11392
class.Mollicutes.id.3920	rs6471729	G	A	0.068	0.014	2.22E-06	11392
class.Actinobacteria.id.419	rs2090660	C	T	0.062	0.013	2.21E-06	16182
class.Bacteroidia.id.912	rs1014718	G	A	-0.056	0.012	2.21E-06	18334
class.Mollicutes.id.3920	rs13025440	T	G	0.075	0.016	2.21E-06	11374
class.Bacilli.id.1673	rs4028634	C	T	0.052	0.011	2.21E-06	17377
class.Actinobacteria.id.419	rs2413310	A	T	0.109	0.023	2.21E-06	14302
class.Actinobacteria.id.419	rs12986776	G	C	0.055	0.012	2.21E-06	16313
class.Actinobacteria.id.419	rs56100046	T	A	0.074	0.015	2.20E-06	16312
class.Betaproteobacteria.id.2867	rs2613606	T	C	-0.051	0.011	2.20E-06	17146
class.Betaproteobacteria.id.2867	rs1859743	C	T	-0.051	0.011	2.20E-06	17043
class.Bacteroidia.id.912	rs61289215	C	T	-0.114	0.024	2.19E-06	11349
class.Actinobacteria.id.419	rs10496738	C	T	0.074	0.015	2.19E-06	16313
class.Bacteroidia.id.912	rs1022523	A	G	-0.056	0.012	2.19E-06	18333
class.Gammaproteobacteria.id.3303	rs12619579	G	A	0.067	0.014	2.18E-06	16023
class.Verrucomicrobiae.id.4029	rs12908520	A	G	0.062	0.013	2.17E-06	11863
class.Actinobacteria.id.419	rs134308	C	T	0.109	0.023	2.17E-06	14302
class.Negativicutes.id.2164	rs71405394	A	G	-0.114	0.024	2.17E-06	13861
class.Verrucomicrobiae.id.4029	rs112769434	A	G	0.111	0.024	2.16E-06	11216
class.Clostridia.id.1859	rs4690986	C	G	0.071	0.015	2.16E-06	18336
class.Melainabacteria.id.1589	rs4846956	C	T	-0.088	0.019	2.15E-06	5885
class.Gammaproteobacteria.id.3303	rs1429930	C	G	0.069	0.015	2.15E-06	16024
class.Actinobacteria.id.419	rs62168955	C	T	0.245	0.050	2.14E-06	3450

class.Bacilli.id.1673	rs4131679	T	C	-0.063	0.013	2.14E-06	17377
class.Actinobacteria.id.419	rs1057031	G	A	0.072	0.015	2.13E-06	16312
class.Mollicutes.id.3920	rs28650441	A	C	0.068	0.014	2.13E-06	11392
class.Mollicutes.id.3920	rs13024040	C	T	0.074	0.016	2.13E-06	11374
class.Actinobacteria.id.419	rs134289	C	A	0.110	0.023	2.12E-06	14302
class.Bacteroidia.id.912	rs6794198	C	T	-0.062	0.013	2.12E-06	18323
class.Mollicutes.id.3920	rs1991359	A	G	0.068	0.014	2.12E-06	11392
class.Actinobacteria.id.419	rs9926823	A	C	0.055	0.012	2.11E-06	16182
class.Actinobacteria.id.419	rs7573555	T	C	0.072	0.015	2.10E-06	16313
class.Actinobacteria.id.419	rs134311	G	A	0.110	0.023	2.10E-06	14302
class.Bacteroidia.id.912	rs74090631	A	G	-0.114	0.024	2.10E-06	11349
class.Bacteroidia.id.912	rs73510184	C	T	-0.114	0.024	2.10E-06	11349
class.Actinobacteria.id.419	rs9939612	C	T	0.055	0.012	2.09E-06	16182
class.Bacteroidia.id.912	rs34519192	A	G	-0.062	0.013	2.08E-06	18323
class.Actinobacteria.id.419	rs57243841	A	G	0.063	0.013	2.08E-06	16182
class.Actinobacteria.id.419	rs309165	T	C	0.069	0.015	2.08E-06	16313
class.Gammaproteobacteria.id.3303	rs10497315	A	G	0.067	0.014	2.08E-06	16024
class.Actinobacteria.id.419	rs2413309	A	G	0.109	0.023	2.08E-06	14302
class.Actinobacteria.id.419	rs11678502	T	C	0.055	0.012	2.07E-06	16313
class.Actinobacteria.id.419	rs134306	G	A	0.110	0.023	2.06E-06	14302
class.Betaproteobacteria.id.2867	rs72747231	G	C	-0.137	0.029	2.06E-06	11344
class.Bacteroidia.id.912	rs1888900	T	C	-0.114	0.024	2.03E-06	11349
class.Actinobacteria.id.419	rs3098102	C	T	0.071	0.015	2.03E-06	16313
class.Mollicutes.id.3920	rs11776003	G	A	0.068	0.014	2.03E-06	11392
class.Actinobacteria.id.419	rs6743537	G	A	0.073	0.015	2.03E-06	16313
class.Actinobacteria.id.419	rs16832624	T	C	0.062	0.013	2.02E-06	16182
class.Bacteroidia.id.912	rs73512626	C	A	-0.114	0.024	2.02E-06	11349
class.Betaproteobacteria.id.2867	rs1928341	G	A	0.053	0.011	2.02E-06	17150
class.Bacteroidia.id.912	rs35532963	C	G	-0.062	0.013	2.01E-06	18323
class.Negativicutes.id.2164	rs4722181	G	T	0.050	0.011	2.00E-06	18163
class.Bacteroidia.id.912	rs73846120	A	G	-0.063	0.013	2.00E-06	18334

class.Bacteroidia.id.912	rs1996069	T	C	-0.063	0.013	1.99E-06	18334
class.Mollicutes.id.3920	rs16923564	T	C	0.068	0.014	1.99E-06	11392
class.Methanobacteria.id.119	rs62240384	C	T	-0.198	0.041	1.99E-06	3385
class.Actinobacteria.id.419	rs16832162	T	A	0.072	0.015	1.98E-06	16313
class.Methanobacteria.id.119	rs12711690	G	A	-0.113	0.024	1.97E-06	3691
class.Bacilli.id.1673	rs11730038	A	G	-0.063	0.013	1.96E-06	17377
class.Negativicutes.id.2164	rs13086907	A	G	0.063	0.013	1.95E-06	18163
class.Actinobacteria.id.419	rs134295	C	T	0.110	0.023	1.95E-06	14302
class.Actinobacteria.id.419	rs4954557	C	T	0.059	0.012	1.95E-06	16313
class.Actinobacteria.id.419	rs134333	A	G	0.111	0.024	1.94E-06	14302
class.Bacteroidia.id.912	rs60869989	G	A	-0.114	0.024	1.94E-06	11349
class.Bacteroidia.id.912	rs71322866	A	C	-0.063	0.013	1.93E-06	18334
class.Actinobacteria.id.419	rs6518933	A	G	0.110	0.023	1.93E-06	14302
class.Mollicutes.id.3920	rs16923562	A	G	0.069	0.014	1.92E-06	11392
class.Mollicutes.id.3920	rs12680996	T	C	0.069	0.014	1.92E-06	11392
class.Actinobacteria.id.419	rs134294	A	T	0.110	0.023	1.92E-06	14302
class.Bacteroidia.id.912	rs2032750	C	T	-0.051	0.011	1.92E-06	17853
class.Actinobacteria.id.419	rs134317	G	A	0.110	0.023	1.91E-06	14302
class.Actinobacteria.id.419	rs309118	G	C	0.070	0.015	1.91E-06	16312
class.Lentisphaeria.id.2250	rs11770843	T	C	0.109	0.023	1.91E-06	4705
class.Actinobacteria.id.419	rs134332	A	G	0.111	0.024	1.91E-06	14302
class.Methanobacteria.id.119	rs73031978	G	C	-0.203	0.042	1.90E-06	3340
class.Bacteroidia.id.912	rs36076607	T	C	-0.062	0.013	1.90E-06	18334
class.Methanobacteria.id.119	rs6784384	G	A	-0.198	0.041	1.90E-06	3385
class.Methanobacteria.id.119	rs4848970	G	T	0.116	0.024	1.89E-06	3696
class.Gammaproteobacteria.id.3303	rs17092798	G	A	-0.064	0.014	1.89E-06	16019
class.Bacilli.id.1673	rs2009619	G	A	-0.059	0.012	1.88E-06	17373
class.Actinobacteria.id.419	rs4334924	G	A	0.057	0.012	1.88E-06	16308
class.Methanobacteria.id.119	rs894996	A	C	0.217	0.045	1.88E-06	3582
class.Bacteroidia.id.912	rs60722059	A	G	-0.114	0.024	1.88E-06	11349
class.Erysipelotrichia.id.2147	rs9846149	G	C	0.051	0.011	1.87E-06	18216

class.Negativicutes.id.2164	rs73232831	A	G	-0.152	0.031	1.87E-06	9382
class.Actinobacteria.id.419	rs35564151	A	G	0.054	0.011	1.87E-06	16182
class.Gammaproteobacteria.id.3303	rs67074513	T	C	0.063	0.013	1.87E-06	16020
class.Erysipelotrichia.id.2147	rs9863872	G	T	0.051	0.011	1.87E-06	18216
class.Actinobacteria.id.419	rs2413306	A	G	0.110	0.023	1.86E-06	14302
class.Methanobacteria.id.119	rs73457427	G	A	0.213	0.045	1.86E-06	3497
class.Lentisphaeria.id.2250	rs77599476	G	A	0.230	0.048	1.86E-06	3722
class.Bacteroidia.id.912	rs11871360	A	G	-0.203	0.044	1.86E-06	3350
class.Melainabacteria.id.1589	rs68053172	G	A	-0.088	0.019	1.86E-06	5881
class.Actinobacteria.id.419	rs134307	C	T	0.110	0.023	1.86E-06	14302
class.Actinobacteria.id.419	rs134331	C	G	0.111	0.024	1.86E-06	14302
class.Melainabacteria.id.1589	rs72765667	A	G	-0.088	0.019	1.85E-06	5881
class.Actinobacteria.id.419	rs2413308	G	T	0.110	0.023	1.85E-06	14302
class.Methanobacteria.id.119	rs9942108	G	A	-0.203	0.042	1.85E-06	3342
class.Actinobacteria.id.419	rs2413305	G	A	0.111	0.024	1.85E-06	14302
class.Erysipelotrichia.id.2147	rs35161940	C	T	-0.081	0.017	1.85E-06	18213
class.Melainabacteria.id.1589	rs4129396	A	G	0.089	0.019	1.84E-06	5886
class.Bacilli.id.1673	rs17708276	G	A	-0.079	0.017	1.84E-06	17266
class.Actinobacteria.id.419	rs7606267	T	C	0.072	0.015	1.84E-06	16313
class.Actinobacteria.id.419	rs3098103	T	C	0.075	0.015	1.82E-06	16313
class.Bacteroidia.id.912	rs61070599	C	T	-0.115	0.024	1.82E-06	11349
class.Actinobacteria.id.419	rs134316	A	G	0.110	0.023	1.81E-06	14302
class.Erysipelotrichia.id.2147	rs9852239	C	T	0.051	0.011	1.81E-06	18216
class.Actinobacteria.id.419	rs177917	A	G	0.071	0.015	1.80E-06	16313
class.Bacilli.id.1673	rs9581006	T	C	0.225	0.047	1.79E-06	4253
class.Actinobacteria.id.419	rs309166	C	T	0.071	0.015	1.79E-06	16312
class.Bacteroidia.id.912	rs11916046	C	A	-0.063	0.013	1.79E-06	18334
class.Erysipelotrichia.id.2147	rs2239640	T	G	0.051	0.011	1.79E-06	18216
class.Methanobacteria.id.119	rs62240385	T	G	-0.201	0.042	1.77E-06	3342
class.Actinobacteria.id.419	rs75753154	T	C	0.072	0.015	1.76E-06	16313
class.Actinobacteria.id.419	rs134371	C	T	0.111	0.024	1.76E-06	14302

class.Actinobacteria.id.419	rs1961273	T	C	0.060	0.013	1.75E-06	16313
class.Mollicutes.id.3920	rs10102709	C	T	0.069	0.014	1.75E-06	11392
class.Actinobacteria.id.419	rs499483	G	A	0.074	0.015	1.74E-06	16312
class.Actinobacteria.id.419	rs59213715	A	C	0.074	0.015	1.74E-06	16313
class.Actinobacteria.id.419	rs309120	G	C	0.071	0.015	1.73E-06	16313
class.Actinobacteria.id.419	rs4954272	A	G	0.079	0.017	1.73E-06	16313
class.Mollicutes.id.3920	rs4325706	C	T	0.073	0.015	1.73E-06	11392
class.Lentisphaeria.id.2250	rs2825714	G	A	-0.137	0.029	1.72E-06	4734
class.Bacteroidia.id.912	rs11920519	A	G	-0.063	0.013	1.70E-06	18331
class.Actinobacteria.id.419	rs309158	A	G	0.070	0.015	1.69E-06	16313
class.Bacteroidia.id.912	rs73510178	G	A	-0.115	0.024	1.67E-06	11349
class.Actinobacteria.id.419	rs11688302	C	T	0.058	0.012	1.67E-06	16313
class.Actinobacteria.id.419	rs134286	G	A	0.111	0.023	1.67E-06	14302
class.Actinobacteria.id.419	rs134363	A	G	0.112	0.024	1.67E-06	14302
class.Betaproteobacteria.id.2867	rs4511740	A	G	0.061	0.013	1.66E-06	17150
class.Bacteroidia.id.912	rs56335733	C	T	-0.115	0.024	1.66E-06	11349
class.Bacteroidia.id.912	rs73510191	A	C	-0.115	0.024	1.65E-06	11346
class.Gammaproteobacteria.id.3303	rs7607028	G	A	0.068	0.015	1.64E-06	16025
class.Actinobacteria.id.419	rs6728946	C	G	0.073	0.015	1.64E-06	16312
class.Actinobacteria.id.419	rs7410699	G	C	0.111	0.023	1.64E-06	14302
class.Actinobacteria.id.419	rs4245838	C	T	0.107	0.022	1.63E-06	11290
class.Methanobacteria.id.119	rs62241835	T	G	-0.203	0.042	1.63E-06	3383
class.Verrucomicrobiae.id.4029	rs74542928	C	T	0.112	0.024	1.63E-06	11216
class.Methanobacteria.id.119	rs6776814	C	T	-0.200	0.041	1.63E-06	3385
class.Bacteroidia.id.912	rs17085738	T	G	-0.115	0.024	1.63E-06	11349
class.Bacteroidia.id.912	rs17085746	A	G	-0.115	0.024	1.63E-06	11349
class.Erysipelotrichia.id.2147	rs2239641	C	T	0.051	0.011	1.62E-06	18216
class.Erysipelotrichia.id.2147	rs78782849	C	T	-0.092	0.019	1.61E-06	16874
class.Mollicutes.id.3920	rs12674568	A	G	0.069	0.014	1.60E-06	11392
class.Mollicutes.id.3920	rs10111506	A	T	0.069	0.014	1.60E-06	11392
class.Deltaproteobacteria.id.3087	rs17791387	G	A	-0.074	0.015	1.60E-06	15071

class.Actinobacteria.id.419	rs77096272	C	A	0.075	0.015	1.60E-06	16312
class.Erysipelotrichia.id.2147	rs2284889	A	G	0.051	0.011	1.60E-06	18216
class.Methanobacteria.id.119	rs76029318	C	T	0.215	0.045	1.58E-06	3497
class.Bacteroidia.id.912	rs7338117	A	G	-0.115	0.024	1.58E-06	11349
class.Actinobacteria.id.419	rs11745923	T	G	0.056	0.012	1.58E-06	16312
class.Actinobacteria.id.419	rs41269821	A	G	0.073	0.015	1.56E-06	16307
class.Mollicutes.id.3920	rs74603314	C	T	0.222	0.046	1.56E-06	4499
class.Actinobacteria.id.419	rs134372	T	A	0.112	0.024	1.55E-06	14302
class.Bacteroidia.id.912	rs7546249	A	T	-0.057	0.012	1.55E-06	18333
class.Bacteroidia.id.912	rs12486528	G	A	-0.064	0.013	1.55E-06	18334
class.Melainabacteria.id.1589	rs4129397	A	G	0.089	0.019	1.54E-06	5886
class.Erysipelotrichia.id.2147	rs2284890	C	T	0.051	0.011	1.54E-06	18215
class.Bacilli.id.1673	rs74352383	A	T	-0.104	0.022	1.53E-06	16519
class.Bacteroidia.id.912	rs60660711	G	A	-0.115	0.024	1.52E-06	11347
class.Actinobacteria.id.419	rs586964	G	A	0.075	0.015	1.52E-06	16312
class.Actinobacteria.id.419	rs309170	C	T	0.072	0.015	1.52E-06	16313
class.Coriobacteriia.id.809	rs240104	C	T	-0.060	0.013	1.52E-06	17577
class.Gammaproteobacteria.id.3303	rs61084716	T	G	0.069	0.015	1.52E-06	16024
class.Actinobacteria.id.419	rs62160866	A	G	0.118	0.025	1.51E-06	9647
class.Actinobacteria.id.419	rs134366	A	G	0.112	0.024	1.50E-06	14302
class.Actinobacteria.id.419	rs75128007	A	G	0.064	0.013	1.50E-06	16182
class.Actinobacteria.id.419	rs12476127	A	G	0.074	0.015	1.50E-06	16313
class.Actinobacteria.id.419	rs721765	C	A	0.076	0.015	1.49E-06	16313
class.Bacteroidia.id.912	rs7611599	C	T	-0.063	0.013	1.49E-06	18334
class.Gammaproteobacteria.id.3303	rs7606905	C	T	0.068	0.015	1.48E-06	16024
class.Melainabacteria.id.1589	rs4129395	A	G	0.090	0.019	1.48E-06	5887
class.Bacteroidia.id.912	rs7629132	C	T	-0.063	0.013	1.48E-06	18325
class.Bacteroidia.id.912	rs4474577	G	A	-0.118	0.024	1.47E-06	10868
class.Erysipelotrichia.id.2147	rs76420385	G	A	-0.093	0.019	1.47E-06	16874
class.Actinobacteria.id.419	rs309159	C	T	0.073	0.015	1.46E-06	16313
class.Melainabacteria.id.1589	rs7204337	G	A	0.099	0.020	1.45E-06	5873

class.Mollicutes.id.3920	rs1583268	G	A	0.073	0.015	1.45E-06	11390
class.Actinobacteria.id.419	rs4954555	T	C	0.107	0.022	1.44E-06	11290
class.Bacteroidia.id.912	rs2225529	C	T	-0.115	0.024	1.44E-06	11341
class.Actinobacteria.id.419	rs12464050	G	T	0.075	0.015	1.43E-06	16312
class.Actinobacteria.id.419	rs6711997	T	C	0.063	0.013	1.42E-06	16313
class.Actinobacteria.id.419	rs309161	G	A	0.072	0.015	1.42E-06	16313
class.Bacteroidia.id.912	rs12938514	G	A	-0.200	0.042	1.42E-06	3350
class.Actinobacteria.id.419	rs134296	A	C	0.112	0.023	1.41E-06	14302
class.Methanobacteria.id.119	rs73457410	G	A	0.215	0.044	1.41E-06	3498
class.Actinobacteria.id.419	rs908703	C	G	0.063	0.013	1.41E-06	16307
class.Actinobacteria.id.419	rs16832205	G	A	0.075	0.015	1.41E-06	16313
class.Actinobacteria.id.419	rs6711493	A	G	0.071	0.015	1.41E-06	16313
class.Erysipelotrichia.id.2147	rs79329601	C	T	-0.093	0.019	1.40E-06	16874
class.Gammaproteobacteria.id.3303	rs59250079	T	G	0.070	0.015	1.39E-06	16022
class.Actinobacteria.id.419	rs16832243	C	T	0.075	0.015	1.39E-06	16313
class.Bacilli.id.1673	rs1962325	G	C	0.055	0.011	1.38E-06	17356
class.Actinobacteria.id.419	rs1964459	C	G	0.076	0.015	1.38E-06	16309
class.Erysipelotrichia.id.2147	rs2300778	G	A	0.052	0.011	1.37E-06	18216
class.Melainabacteria.id.1589	rs72765665	C	T	-0.089	0.019	1.35E-06	5881
class.Clostridia.id.1859	rs72915163	C	T	-0.058	0.012	1.34E-06	18317
class.Bacilli.id.1673	rs77558518	G	A	-0.107	0.022	1.34E-06	15836
class.Actinobacteria.id.419	rs111682961	C	T	0.075	0.015	1.33E-06	16312
class.Actinobacteria.id.419	rs12474975	A	T	0.075	0.015	1.32E-06	16313
class.Actinobacteria.id.419	rs79826902	G	A	0.075	0.015	1.31E-06	16313
class.Actinobacteria.id.419	rs13387501	C	T	0.063	0.013	1.31E-06	16313
class.Actinobacteria.id.419	rs12448146	C	A	0.056	0.012	1.28E-06	16182
class.Melainabacteria.id.1589	rs16851659	C	G	-0.090	0.019	1.27E-06	5884
class.Actinobacteria.id.419	rs16832440	G	A	0.076	0.015	1.27E-06	16312
class.Betaproteobacteria.id.2867	rs78428620	C	T	-0.098	0.020	1.27E-06	16185
class.Actinobacteria.id.419	rs6713776	C	G	0.074	0.015	1.26E-06	16313
class.Bacteroidia.id.912	rs74937713	A	T	-0.063	0.013	1.25E-06	18326

class.Actinobacteria.id.419	rs3098104	T	A	0.076	0.015	1.25E-06	16312
class.Actinobacteria.id.419	rs4440852	A	C	0.065	0.014	1.24E-06	16182
class.Actinobacteria.id.419	rs2441384	T	C	0.071	0.015	1.23E-06	16313
class.Actinobacteria.id.419	rs72847650	C	A	-0.056	0.012	1.23E-06	15401
class.Bacteroidia.id.912	rs73975615	A	G	-0.207	0.044	1.22E-06	3350
class.Actinobacteria.id.419	rs10928554	C	T	0.090	0.017	1.21E-06	16182
class.Actinobacteria.id.419	rs6756200	T	C	0.055	0.011	1.20E-06	16182
class.Actinobacteria.id.419	rs112396243	C	T	0.076	0.015	1.19E-06	16313
class.Erysipelotrichia.id.2147	rs2300777	C	A	0.052	0.011	1.18E-06	18216
class.Coriobacteriia.id.809	rs56374305	C	G	0.100	0.021	1.17E-06	17688
class.Betaproteobacteria.id.2867	rs62191117	G	A	0.064	0.013	1.17E-06	17029
class.Negativicutes.id.2164	rs60274479	C	T	-0.066	0.013	1.16E-06	17610
class.Actinobacteria.id.419	rs115553816	G	A	0.076	0.015	1.16E-06	16313
class.Bacteroidia.id.912	rs35800684	G	A	-0.064	0.013	1.15E-06	18334
class.Actinobacteria.id.419	rs2254780	C	T	0.071	0.015	1.14E-06	16313
class.Verrucomicrobiae.id.4029	rs4936098	G	A	0.065	0.014	1.12E-06	11858
class.Coriobacteriia.id.809	rs7078773	C	T	0.076	0.016	1.12E-06	17689
class.Verrucomicrobiae.id.4029	rs113634144	G	T	0.074	0.015	1.12E-06	11860
class.Actinobacteria.id.419	rs2176716	C	T	0.064	0.013	1.11E-06	16313
class.Bacteroidia.id.912	rs11929346	T	C	-0.064	0.013	1.10E-06	18334
class.Erysipelotrichia.id.2147	rs2300780	C	T	0.052	0.011	1.10E-06	18216
class.Betaproteobacteria.id.2867	rs12467854	C	G	0.064	0.013	1.10E-06	17038
class.Mollicutes.id.3920	rs10108398	A	G	0.077	0.015	1.09E-06	10932
class.Actinobacteria.id.419	rs309119	T	C	0.073	0.015	1.09E-06	16313
class.Erysipelotrichia.id.2147	rs9858727	T	A	0.052	0.011	1.08E-06	18216
class.Lentisphaeria.id.2250	rs62570196	T	C	-0.216	0.044	1.08E-06	3712
class.Bacilli.id.1673	rs2952251	G	A	-0.060	0.012	1.08E-06	17360
class.Gammaproteobacteria.id.3303	rs9967718	G	A	0.069	0.014	1.08E-06	16023
class.Bacilli.id.1673	rs76717940	A	T	0.156	0.033	1.07E-06	8017
class.Bacilli.id.1673	rs78938557	C	T	0.108	0.023	1.07E-06	15226
class.Actinobacteria.id.419	rs6430601	G	T	0.076	0.016	1.06E-06	16310

class.Actinobacteria.id.419	rs309133	A	C	0.073	0.015	1.06E-06	16311
class.Alphaproteobacteria.id.2379	rs9813022	G	A	-0.075	0.015	1.05E-06	9593
class.Actinobacteria.id.419	rs11684458	A	G	0.064	0.013	1.04E-06	16313
class.Actinobacteria.id.419	rs75667274	C	T	0.077	0.016	1.03E-06	16307
class.Actinobacteria.id.419	rs112407062	C	T	0.076	0.015	1.03E-06	16313
class.Negativicutes.id.2164	rs2921533	A	G	-0.054	0.011	1.02E-06	18171
class.Bacilli.id.1673	rs35344081	A	G	0.062	0.013	1.01E-06	17374
class.Melainabacteria.id.1589	rs13072359	A	C	-0.143	0.029	1.01E-06	5777
class.Gammaproteobacteria.id.3303	rs11181912	A	G	-0.058	0.012	9.95E-07	16017
class.Actinobacteria.id.419	rs10180515	T	A	0.064	0.013	9.88E-07	16313
class.Erysipelotrichia.id.2147	rs2300775	C	T	0.052	0.011	9.78E-07	18216
class.Gammaproteobacteria.id.3303	rs7586785	C	G	0.069	0.014	9.75E-07	16023
class.Erysipelotrichia.id.2147	rs79996147	A	T	-0.094	0.019	9.72E-07	16874
class.Mollicutes.id.3920	rs67374027	T	A	0.075	0.015	9.70E-07	11389
class.Clostridia.id.1859	rs6814436	C	T	0.074	0.015	9.65E-07	18336
class.Deltaproteobacteria.id.3087	rs6060240	C	A	0.081	0.017	9.65E-07	14439
class.Mollicutes.id.3920	rs11890098	G	A	0.074	0.015	9.57E-07	11392
class.Actinobacteria.id.419	rs8057441	T	C	0.057	0.012	9.51E-07	16182
class.Alphaproteobacteria.id.2379	rs55661963	A	C	0.130	0.027	9.33E-07	9592
class.Melainabacteria.id.1589	rs13072044	G	T	-0.147	0.030	9.30E-07	5343
class.Bacteroidia.id.912	rs111845179	C	T	0.103	0.021	9.24E-07	16393
class.Bacilli.id.1673	rs57872228	T	C	-0.071	0.015	9.22E-07	17375
class.Erysipelotrichia.id.2147	rs7234058	C	T	-0.095	0.019	9.12E-07	16874
class.Betaproteobacteria.id.2867	rs2367850	C	G	0.064	0.013	9.12E-07	16717
class.Bacteroidia.id.912	rs2210452	G	A	-0.117	0.024	9.11E-07	11349
class.Actinobacteria.id.419	rs309152	T	C	0.074	0.015	9.01E-07	16313
class.Gammaproteobacteria.id.3303	rs67269716	G	A	0.069	0.014	9.00E-07	16023
class.Erysipelotrichia.id.2147	rs2300774	A	G	0.052	0.011	8.95E-07	18216
class.Melainabacteria.id.1589	rs7644367	G	A	-0.143	0.029	8.95E-07	5777
class.Actinobacteria.id.419	rs2138992	C	A	0.066	0.014	8.92E-07	16182
class.Gammaproteobacteria.id.3303	rs7580360	A	G	0.070	0.015	8.87E-07	16024

class.Bacteroidia.id.912	rs73846128	G	A	-0.065	0.013	8.76E-07	18334
class.Melainabacteria.id.1589	rs7206242	C	T	0.100	0.020	8.60E-07	5880
class.Gammaproteobacteria.id.3303	rs12105903	C	T	0.070	0.014	8.40E-07	16024
class.Bacteroidia.id.912	rs7631304	A	G	-0.065	0.013	8.37E-07	18334
class.Actinobacteria.id.419	rs8047955	G	A	0.058	0.012	8.34E-07	16306
class.Actinobacteria.id.419	rs10171677	G	A	0.055	0.011	8.34E-07	16182
class.Bacteroidia.id.912	rs7337863	C	A	-0.117	0.024	8.25E-07	11349
class.Bacteroidia.id.912	rs80015632	C	G	-0.118	0.024	8.23E-07	11349
class.Bacteroidia.id.912	rs112675712	T	C	-0.117	0.024	8.12E-07	11349
class.Bacteroidia.id.912	rs17085798	C	A	-0.118	0.024	8.02E-07	11349
class.Bacteroidia.id.912	rs56949730	A	G	-0.118	0.024	7.98E-07	11349
class.Bacteroidia.id.912	rs74090627	C	T	-0.118	0.024	7.95E-07	11349
class.Melainabacteria.id.1589	rs12714902	G	A	-0.144	0.029	7.91E-07	5777
class.Alphaproteobacteria.id.2379	rs75071199	C	A	0.131	0.027	7.91E-07	9593
class.Melainabacteria.id.1589	rs13072444	G	A	-0.145	0.029	7.80E-07	5777
class.Coriobacteriia.id.809	rs2458655	C	A	0.078	0.016	7.77E-07	17689
class.Bacteroidia.id.912	rs2210454	C	T	-0.119	0.024	7.69E-07	11349
class.Melainabacteria.id.1589	rs13095126	T	C	-0.145	0.029	7.67E-07	5777
class.Actinobacteria.id.419	rs6712127	A	G	0.072	0.014	7.56E-07	16313
class.Bacteroidia.id.912	rs17085818	A	C	-0.119	0.024	7.46E-07	11349
class.Betaproteobacteria.id.2867	rs6087811	G	T	-0.098	0.020	7.44E-07	16184
class.Bacteroidia.id.912	rs112343530	T	C	-0.118	0.024	7.32E-07	11349
class.Melainabacteria.id.1589	rs12714903	C	T	-0.145	0.029	7.17E-07	5777
class.Bacteroidia.id.912	rs2150960	G	C	-0.119	0.024	7.16E-07	11349
class.Melainabacteria.id.1589	rs12491989	C	G	-0.145	0.029	7.10E-07	5777
class.Bacteroidia.id.912	rs9788409	T	C	-0.119	0.024	7.07E-07	11349
class.Bacteroidia.id.912	rs2210451	C	G	-0.119	0.024	7.02E-07	11349
class.Actinobacteria.id.419	rs309123	C	G	0.074	0.015	6.86E-07	16312
class.Melainabacteria.id.1589	rs12714900	G	T	-0.145	0.029	6.82E-07	5777
class.Verrucomicrobiae.id.4029	rs11729256	C	T	0.075	0.015	6.73E-07	11861
class.Actinobacteria.id.419	rs908704	A	G	0.066	0.013	6.66E-07	16307

class.Melainabacteria.id.1589	rs13098772	C	A	-0.147	0.029	6.58E-07	5775
class.Methanobacteria.id.119	rs1869500	A	C	-0.118	0.024	6.57E-07	3692
class.Melainabacteria.id.1589	rs13072505	A	G	-0.145	0.029	6.55E-07	5777
class.Actinobacteria.id.419	rs60241067	A	T	0.063	0.013	6.49E-07	16313
class.Melainabacteria.id.1589	rs13060131	C	T	-0.146	0.029	6.46E-07	5777
class.Bacteroidia.id.912	rs60614038	T	A	-0.120	0.024	6.30E-07	11349
class.Bacteroidia.id.912	rs58298316	T	G	-0.120	0.024	6.30E-07	11349
class.Actinobacteria.id.419	rs309122	A	G	0.073	0.015	6.29E-07	16312
class.Bacteroidia.id.912	rs17085771	A	T	-0.120	0.024	6.24E-07	11349
class.Actinobacteria.id.419	rs7322849	C	T	0.094	0.019	6.21E-07	16313
class.Alphaproteobacteria.id.2379	rs140912403	T	C	-0.161	0.032	6.20E-07	8520
class.Actinobacteria.id.419	rs1879087	T	C	0.104	0.023	6.20E-07	10415
class.Actinobacteria.id.419	rs2090661	A	G	0.062	0.012	6.15E-07	16309
class.Melainabacteria.id.1589	rs13088024	T	A	-0.146	0.029	6.15E-07	5777
class.Actinobacteria.id.419	rs6685379	A	G	0.066	0.013	6.13E-07	16182
class.Methanobacteria.id.119	rs7601415	T	A	-0.119	0.024	6.11E-07	3692
class.Melainabacteria.id.1589	rs11150282	C	T	0.099	0.020	6.03E-07	5873
class.Actinobacteria.id.419	rs1942055	G	C	0.056	0.012	5.83E-07	16308
class.Alphaproteobacteria.id.2379	rs77497586	G	T	0.132	0.027	5.63E-07	9588
class.Bacteroidia.id.912	rs74090639	G	A	-0.121	0.024	5.59E-07	11349
class.Actinobacteria.id.419	rs73958618	A	G	0.071	0.014	5.44E-07	16313
class.Coriobacteriia.id.809	rs719099	G	A	0.078	0.016	5.43E-07	17687
class.Actinobacteria.id.419	rs1028181	C	T	0.067	0.014	5.42E-07	16308
class.Actinobacteria.id.419	rs11895609	A	T	0.076	0.016	5.27E-07	16312
class.Betaproteobacteria.id.2867	rs4033856	T	C	0.083	0.017	5.17E-07	15945
class.Alphaproteobacteria.id.2379	rs76784716	G	A	0.133	0.027	5.09E-07	9593
class.Deltaproteobacteria.id.3087	rs6060237	A	G	0.082	0.017	4.94E-07	15101
class.Deltaproteobacteria.id.3087	rs6060238	G	A	0.082	0.017	4.88E-07	15101
class.Bacteroidia.id.912	rs60610351	T	A	-0.121	0.024	4.85E-07	11349
class.Erysipelotrichia.id.2147	rs62504370	C	A	0.063	0.013	4.80E-07	17285
class.Actinobacteria.id.419	rs7589832	A	C	0.072	0.014	4.79E-07	16313

class.Actinobacteria.id.419	rs2056226	C	G	0.068	0.014	4.69E-07	16182
class.Deltaproteobacteria.id.3087	rs6060239	T	C	0.082	0.017	4.68E-07	15100
class.Actinobacteria.id.419	rs4988243	T	C	0.112	0.022	4.65E-07	13514
class.Melainabacteria.id.1589	rs17039208	T	C	-0.147	0.029	4.53E-07	5777
class.Actinobacteria.id.419	rs1807356	T	C	0.081	0.016	4.53E-07	16313
class.Bacteroidia.id.912	rs58269684	C	T	-0.121	0.024	4.49E-07	11349
class.Bacteroidia.id.912	rs56358950	T	C	-0.121	0.024	4.48E-07	11349
class.Actinobacteria.id.419	rs55809728	G	A	0.107	0.022	4.46E-07	13617
class.Actinobacteria.id.419	rs13007153	T	C	0.063	0.012	4.26E-07	16308
class.Actinobacteria.id.419	rs10197646	G	A	0.077	0.015	4.17E-07	16313
class.Actinobacteria.id.419	rs7556781	A	G	0.072	0.014	4.15E-07	16313
class.Negativicutes.id.2164	rs1643968	C	T	-0.057	0.011	4.15E-07	18170
class.Actinobacteria.id.419	rs6540645	C	G	0.068	0.014	4.13E-07	16308
class.Bacteroidia.id.912	rs73512608	A	G	-0.121	0.024	4.08E-07	11349
class.Actinobacteria.id.419	rs309124	A	G	0.075	0.015	4.06E-07	16312
class.Clostridia.id.1859	rs6815608	C	T	0.104	0.021	4.02E-07	16731
class.Melainabacteria.id.1589	rs17039205	A	G	-0.148	0.029	3.98E-07	5777
class.Actinobacteria.id.419	rs16833170	A	G	0.062	0.012	3.96E-07	16313
class.Actinobacteria.id.419	rs10174462	C	G	0.074	0.014	3.91E-07	16313
class.Melainabacteria.id.1589	rs1010755	C	T	-0.148	0.029	3.90E-07	5777
class.Bacteroidia.id.912	rs55773148	A	G	-0.122	0.024	3.90E-07	11349
class.Bacteroidia.id.912	rs55993203	G	A	-0.122	0.024	3.90E-07	11349
class.Melainabacteria.id.1589	rs10510427	G	A	-0.150	0.029	3.86E-07	5777
class.Melainabacteria.id.1589	rs13084677	A	T	-0.138	0.028	3.82E-07	5776
class.Clostridia.id.1859	rs112334273	A	G	0.064	0.013	3.81E-07	18217
class.Melainabacteria.id.1589	rs9832125	C	T	-0.139	0.028	3.62E-07	5776
class.Actinobacteria.id.419	rs72976292	T	A	0.062	0.012	3.56E-07	16308
class.Actinobacteria.id.419	rs59869505	A	C	0.062	0.012	3.55E-07	16313
class.Gammaproteobacteria.id.3303	rs6432974	G	T	0.073	0.015	3.48E-07	16019
class.Gammaproteobacteria.id.3303	rs7572454	G	A	0.072	0.014	3.44E-07	16024
class.Deltaproteobacteria.id.3087	rs6058181	T	C	0.083	0.017	3.40E-07	15100

class.Actinobacteria.id.419	rs7575241	C	A	0.073	0.014	3.32E-07	16312
class.Melainabacteria.id.1589	rs62231951	A	T	-0.152	0.029	3.18E-07	5777
class.Actinobacteria.id.419	rs872151	C	T	0.091	0.018	3.12E-07	16313
class.Actinobacteria.id.419	rs7582173	G	A	0.078	0.015	3.10E-07	16313
class.Methanobacteria.id.119	rs10202904	G	T	-0.122	0.024	3.01E-07	3695
class.Melainabacteria.id.1589	rs12486770	T	A	-0.153	0.029	2.98E-07	5777
class.Melainabacteria.id.1589	rs13072729	T	C	-0.151	0.029	2.96E-07	5775
class.Gammaproteobacteria.id.3303	rs56730065	A	G	0.073	0.015	2.91E-07	16020
class.Actinobacteria.id.419	rs4954556	G	A	0.123	0.025	2.90E-07	9647
class.Erysipelotrichia.id.2147	rs62504402	C	T	0.066	0.013	2.88E-07	16874
class.Actinobacteria.id.419	rs1028182	C	T	0.068	0.013	2.87E-07	16310
class.Actinobacteria.id.419	rs4954388	T	C	0.064	0.012	2.69E-07	16309
class.Melainabacteria.id.1589	rs6780959	A	G	-0.150	0.029	2.68E-07	5776
class.Actinobacteria.id.419	rs6733547	G	T	0.080	0.016	2.67E-07	16312
class.Actinobacteria.id.419	rs6430585	C	A	0.073	0.014	2.66E-07	16313
class.Actinobacteria.id.419	rs4954575	G	A	0.063	0.012	2.59E-07	16313
class.Actinobacteria.id.419	rs7564577	C	T	0.082	0.016	2.52E-07	16311
class.Erysipelotrichia.id.2147	rs11990327	G	A	0.067	0.013	2.45E-07	16981
class.Melainabacteria.id.1589	rs9883109	T	C	-0.151	0.029	2.45E-07	5777
class.Actinobacteria.id.419	rs12471781	G	A	0.082	0.016	2.44E-07	16182
class.Melainabacteria.id.1589	rs12493406	C	T	-0.154	0.029	2.41E-07	5777
class.Erysipelotrichia.id.2147	rs11990200	G	A	0.067	0.013	2.37E-07	16874
class.Actinobacteria.id.419	rs80274970	C	T	0.101	0.020	2.36E-07	15823
class.Actinobacteria.id.419	rs13415439	C	A	0.063	0.012	2.34E-07	16313
class.Actinobacteria.id.419	rs4954571	G	A	0.065	0.013	2.27E-07	16311
class.Melainabacteria.id.1589	rs6442436	C	T	-0.151	0.029	2.24E-07	5776
class.Melainabacteria.id.1589	rs9863760	C	T	-0.149	0.028	2.21E-07	5776
class.Gammaproteobacteria.id.3303	rs11899748	C	T	0.074	0.015	2.18E-07	16020
class.Actinobacteria.id.419	rs7568884	C	T	0.063	0.012	2.16E-07	16313
class.Actinobacteria.id.419	rs6732236	T	G	0.074	0.014	2.06E-07	16313
class.Melainabacteria.id.1589	rs9864035	G	A	-0.153	0.029	2.04E-07	5775

class.Gammaproteobacteria.id.3303	rs6432975	C	G	0.074	0.015	2.02E-07	16020
class.Actinobacteria.id.419	rs7604460	T	C	0.083	0.016	2.02E-07	16182
class.Gammaproteobacteria.id.3303	rs6706173	C	A	0.074	0.015	1.99E-07	16020
class.Actinobacteria.id.419	rs6430580	A	G	0.084	0.017	1.90E-07	16313
class.Actinobacteria.id.419	rs1469995	G	A	0.074	0.014	1.83E-07	16308
class.Actinobacteria.id.419	rs147616090	C	T	0.074	0.014	1.76E-07	16313
class.Actinobacteria.id.419	rs60274701	G	A	0.094	0.018	1.74E-07	16312
class.Melainabacteria.id.1589	rs13062781	G	A	-0.146	0.028	1.61E-07	5774
class.Melainabacteria.id.1589	rs6773199	G	A	-0.149	0.029	1.54E-07	5775
class.Actinobacteria.id.419	rs4845143	T	G	0.069	0.013	1.51E-07	16310
class.Actinobacteria.id.419	rs62168844	A	G	0.099	0.019	1.45E-07	16309
class.Actinobacteria.id.419	rs1469996	A	G	0.075	0.014	1.43E-07	16182
class.Actinobacteria.id.419	rs6708957	C	T	0.075	0.014	1.39E-07	16313
class.Actinobacteria.id.419	rs7595712	C	T	0.075	0.014	1.24E-07	16313
class.Actinobacteria.id.419	rs12022129	A	G	0.070	0.013	1.21E-07	16310
class.Actinobacteria.id.419	rs7513988	T	C	0.069	0.013	1.19E-07	16309
class.Actinobacteria.id.419	rs12992815	C	G	0.095	0.018	1.13E-07	16313
class.Erysipelotrichia.id.2147	rs62504403	T	C	0.068	0.013	1.12E-07	16981
class.Actinobacteria.id.419	rs6660520	G	A	0.071	0.013	1.11E-07	16308
class.Actinobacteria.id.419	rs12469551	G	T	0.075	0.014	1.10E-07	16313
class.Actinobacteria.id.419	rs4954394	A	G	0.067	0.013	1.09E-07	16313
class.Actinobacteria.id.419	rs60453613	G	C	0.075	0.014	1.08E-07	16313
class.Actinobacteria.id.419	rs3739022	G	A	0.096	0.018	1.07E-07	16313
class.Melainabacteria.id.1589	rs900188	A	G	-0.157	0.029	9.54E-08	5776
class.Actinobacteria.id.419	rs10193587	T	C	0.066	0.012	9.46E-08	16182
class.Melainabacteria.id.1589	rs2005426	C	A	-0.158	0.029	9.17E-08	5773
class.Actinobacteria.id.419	rs10496737	A	G	0.076	0.014	8.75E-08	16313
class.Actinobacteria.id.419	rs1865452	C	T	0.076	0.014	8.63E-08	16313
class.Actinobacteria.id.419	rs60963894	T	G	0.076	0.014	8.63E-08	16313
class.Actinobacteria.id.419	rs3820790	A	T	0.098	0.018	8.35E-08	16310
class.Actinobacteria.id.419	rs62168846	G	A	0.103	0.019	7.89E-08	16309

class.Actinobacteria.id.419	rs62168843	T	C	0.101	0.019	7.75E-08	16309
class.Actinobacteria.id.419	rs9677760	A	T	0.076	0.014	7.71E-08	16313
class.Actinobacteria.id.419	rs62168847	T	C	0.102	0.019	6.86E-08	16309
class.Actinobacteria.id.419	rs10928513	C	T	0.061	0.012	6.28E-08	16312
class.Actinobacteria.id.419	rs3769011	A	T	0.098	0.018	6.28E-08	16313
class.Melainabacteria.id.1589	rs9830438	A	C	-0.159	0.029	6.26E-08	5777
class.Actinobacteria.id.419	rs6716987	C	A	0.066	0.012	6.15E-08	16313
class.Actinobacteria.id.419	rs6745996	A	G	0.088	0.017	5.86E-08	16313
class.Actinobacteria.id.419	rs4954445	T	A	0.098	0.018	5.74E-08	16313
class.Actinobacteria.id.419	rs61470941	T	C	0.098	0.018	5.60E-08	16313
class.Actinobacteria.id.419	rs35215526	G	A	0.104	0.019	5.58E-08	16309
class.Actinobacteria.id.419	rs4954578	T	C	0.066	0.012	5.40E-08	16313
class.Actinobacteria.id.419	rs56036623	T	C	0.071	0.013	5.37E-08	16313
class.Melainabacteria.id.1589	rs9864379	C	T	-0.160	0.029	5.36E-08	5777
class.Actinobacteria.id.419	rs58080116	A	G	0.099	0.018	4.88E-08	16313
class.Actinobacteria.id.419	rs4954573	T	G	0.067	0.012	4.84E-08	16312
class.Actinobacteria.id.419	rs2322812	A	G	0.099	0.018	4.52E-08	16313
class.Actinobacteria.id.419	rs7565871	G	C	0.083	0.016	4.47E-08	16312
class.Actinobacteria.id.419	rs7609188	G	C	0.110	0.021	4.03E-08	13623
class.Actinobacteria.id.419	rs998451	A	G	0.061	0.012	3.64E-08	16312
class.Actinobacteria.id.419	rs2874874	A	C	0.100	0.018	3.61E-08	16313
class.Actinobacteria.id.419	rs16855656	A	G	0.092	0.016	3.48E-08	16313
class.Actinobacteria.id.419	rs1519525	C	T	0.067	0.012	3.02E-08	16313
class.Actinobacteria.id.419	rs16831994	T	C	0.111	0.021	3.01E-08	13623
class.Actinobacteria.id.419	rs584226	T	C	0.096	0.017	2.84E-08	16313
class.Actinobacteria.id.419	rs6729961	T	G	0.114	0.021	2.79E-08	13623
class.Actinobacteria.id.419	rs16833335	G	A	0.067	0.012	2.76E-08	16313
class.Actinobacteria.id.419	rs74697610	A	T	0.110	0.020	2.52E-08	16073
class.Actinobacteria.id.419	rs4954577	A	G	0.068	0.012	2.42E-08	16313
class.Actinobacteria.id.419	rs13010498	G	C	-0.067	0.012	2.34E-08	16182
class.Actinobacteria.id.419	rs60376570	G	A	0.101	0.018	2.21E-08	16313

class.Actinobacteria.id.419	rs57543738	T	C	0.102	0.018	2.20E-08	16313
class.Actinobacteria.id.419	rs6707289	A	G	0.114	0.021	2.20E-08	13623
class.Actinobacteria.id.419	rs6720497	G	A	0.114	0.021	2.20E-08	13623
class.Actinobacteria.id.419	rs72970286	T	G	0.111	0.020	2.19E-08	13622
class.Actinobacteria.id.419	rs4954397	A	G	0.068	0.012	2.11E-08	16313
class.Actinobacteria.id.419	rs10928558	T	C	0.069	0.012	2.01E-08	16312
class.Actinobacteria.id.419	rs1964776	C	T	0.068	0.012	1.98E-08	16313
class.Actinobacteria.id.419	rs12473760	C	A	0.068	0.012	1.92E-08	16313
class.Actinobacteria.id.419	rs56982689	C	T	0.113	0.021	1.89E-08	13623
class.Actinobacteria.id.419	rs13008147	A	G	-0.069	0.013	1.81E-08	15292
class.Actinobacteria.id.419	rs56211644	T	C	0.102	0.018	1.75E-08	16313
class.Actinobacteria.id.419	rs78793148	C	A	0.108	0.019	1.73E-08	16182
class.Actinobacteria.id.419	rs6738563	G	T	0.062	0.011	1.67E-08	16309
class.Actinobacteria.id.419	rs12233092	G	A	0.095	0.017	1.66E-08	16310
class.Actinobacteria.id.419	rs62170081	A	G	0.115	0.021	1.56E-08	13623
class.Actinobacteria.id.419	rs4954430	C	T	0.115	0.021	1.38E-08	13622
class.Actinobacteria.id.419	rs3806502	C	T	0.088	0.016	1.37E-08	16313
class.Actinobacteria.id.419	rs1123848	C	T	0.069	0.012	1.32E-08	16311
class.Actinobacteria.id.419	rs7371606	A	G	0.070	0.012	1.31E-08	16182
class.Actinobacteria.id.419	rs7565053	A	T	0.121	0.022	1.30E-08	13499
class.Actinobacteria.id.419	rs2056297	G	T	0.068	0.012	1.30E-08	16313
class.Actinobacteria.id.419	rs6705610	T	G	0.086	0.016	1.24E-08	16313
class.Actinobacteria.id.419	rs2102896	T	C	0.069	0.012	1.21E-08	16313
class.Actinobacteria.id.419	rs953387	A	C	0.069	0.012	1.20E-08	16313
class.Actinobacteria.id.419	rs2874834	A	G	0.074	0.013	1.18E-08	16313
class.Actinobacteria.id.419	rs4954396	A	C	0.069	0.012	1.16E-08	16313
class.Actinobacteria.id.419	rs2322445	T	A	0.087	0.016	1.12E-08	16313
class.Actinobacteria.id.419	rs10803550	C	T	0.069	0.012	1.12E-08	16313
class.Actinobacteria.id.419	rs7594509	G	T	0.086	0.016	1.12E-08	16313
class.Actinobacteria.id.419	rs4954564	A	G	0.069	0.012	1.12E-08	16311
class.Actinobacteria.id.419	rs78141345	G	A	0.104	0.018	1.10E-08	16313

class.Actinobacteria.id.419	rs11897217	C	T	0.086	0.016	1.07E-08	16313
class.Actinobacteria.id.419	rs4954572	G	T	0.069	0.012	1.07E-08	16313
class.Actinobacteria.id.419	rs72972104	G	A	0.114	0.021	1.03E-08	13623
class.Actinobacteria.id.419	rs6430593	G	A	0.098	0.017	9.44E-09	16313
class.Actinobacteria.id.419	rs55634455	T	C	0.105	0.018	8.85E-09	16313
class.Actinobacteria.id.419	rs925966	G	C	0.071	0.012	8.72E-09	16182
class.Actinobacteria.id.419	rs4954566	C	T	0.069	0.012	8.63E-09	16313
class.Actinobacteria.id.419	rs6727889	C	T	0.090	0.016	8.15E-09	16313
class.Actinobacteria.id.419	rs4954570	G	C	0.073	0.013	7.97E-09	16311
class.Actinobacteria.id.419	rs12478902	T	C	0.099	0.017	7.65E-09	16312
class.Actinobacteria.id.419	rs10928529	G	A	0.089	0.016	7.64E-09	16312
class.Actinobacteria.id.419	rs74266324	G	A	0.083	0.014	7.63E-09	16182
class.Actinobacteria.id.419	rs16832200	T	C	0.097	0.017	7.57E-09	16313
class.Actinobacteria.id.419	rs2164331	C	T	0.102	0.017	7.56E-09	16313
class.Actinobacteria.id.419	rs1530559	A	G	0.065	0.011	7.55E-09	16182
class.Actinobacteria.id.419	rs950176	A	G	0.070	0.012	7.48E-09	16311
class.Actinobacteria.id.419	rs61663334	A	G	0.086	0.016	7.46E-09	16312
class.Actinobacteria.id.419	rs12616955	C	T	0.070	0.012	7.08E-09	16313
class.Actinobacteria.id.419	rs7563997	T	A	0.089	0.016	6.97E-09	16312
class.Actinobacteria.id.419	rs4954633	C	T	0.115	0.021	6.93E-09	13623
class.Actinobacteria.id.419	rs11889843	G	A	0.089	0.016	6.83E-09	16312
class.Actinobacteria.id.419	rs16832156	G	A	0.098	0.017	6.72E-09	16312
class.Actinobacteria.id.419	rs3754690	C	T	0.106	0.018	6.66E-09	16313
class.Actinobacteria.id.419	rs7605229	C	T	0.090	0.016	6.47E-09	16313
class.Actinobacteria.id.419	rs309126	T	C	0.097	0.016	6.28E-09	16313
class.Actinobacteria.id.419	rs4954392	A	G	0.070	0.012	6.15E-09	16313
class.Actinobacteria.id.419	rs7597802	A	T	0.090	0.016	6.12E-09	16312
class.Actinobacteria.id.419	rs6752519	C	T	0.102	0.017	6.07E-09	16313
class.Actinobacteria.id.419	rs11900832	C	T	0.090	0.016	6.06E-09	16312
class.Actinobacteria.id.419	rs56067372	C	T	0.104	0.017	5.97E-09	16313
class.Actinobacteria.id.419	rs2322725	T	C	0.098	0.017	5.81E-09	16313

class.Actinobacteria.id.419	rs309132	C	G	0.102	0.017	5.74E-09	16313
class.Actinobacteria.id.419	rs6742013	T	C	0.090	0.016	5.53E-09	16313
class.Actinobacteria.id.419	rs2305248	A	G	0.089	0.016	5.42E-09	16313
class.Actinobacteria.id.419	rs11888521	G	C	0.088	0.016	4.97E-09	16311
class.Actinobacteria.id.419	rs4954213	G	T	0.090	0.016	4.93E-09	16312
class.Actinobacteria.id.419	rs2164332	G	C	0.098	0.017	4.86E-09	16313
class.Actinobacteria.id.419	rs10496736	C	G	0.119	0.021	4.66E-09	13623
class.Actinobacteria.id.419	rs60433564	A	C	0.119	0.021	4.41E-09	13623
class.Actinobacteria.id.419	rs13408096	G	T	0.090	0.016	4.30E-09	16312
class.Actinobacteria.id.419	rs4954569	C	T	0.071	0.012	4.17E-09	16312
class.Actinobacteria.id.419	rs56369660	A	G	0.090	0.016	4.01E-09	16313
class.Actinobacteria.id.419	rs11892750	G	A	0.091	0.016	3.89E-09	16312
class.Actinobacteria.id.419	rs6715785	G	A	0.071	0.012	3.88E-09	16312
class.Actinobacteria.id.419	rs4954221	G	A	0.090	0.016	3.73E-09	16313
class.Actinobacteria.id.419	rs3754692	T	C	0.077	0.013	3.68E-09	16313
class.Actinobacteria.id.419	rs16832138	G	A	0.105	0.017	3.50E-09	16313
class.Actinobacteria.id.419	rs1979033	G	A	0.065	0.011	3.26E-09	16308
class.Actinobacteria.id.419	rs7608980	G	A	0.105	0.017	3.25E-09	16313
class.Actinobacteria.id.419	rs4494812	A	G	0.089	0.016	3.20E-09	16311
class.Actinobacteria.id.419	rs6737635	G	T	0.091	0.016	3.18E-09	16313
class.Actinobacteria.id.419	rs4954226	T	C	0.092	0.016	3.04E-09	16313
class.Actinobacteria.id.419	rs4954242	A	G	0.093	0.016	3.02E-09	16313
class.Actinobacteria.id.419	rs6739713	A	G	0.077	0.013	2.97E-09	16313
class.Actinobacteria.id.419	rs11897204	T	C	0.090	0.016	2.80E-09	16313
class.Actinobacteria.id.419	rs4954568	T	A	0.072	0.012	2.79E-09	16313
class.Actinobacteria.id.419	rs6706466	A	G	0.090	0.016	2.78E-09	16313
class.Actinobacteria.id.419	rs17293519	A	G	0.091	0.016	2.76E-09	16313
class.Actinobacteria.id.419	rs13427494	G	A	0.092	0.016	2.70E-09	16313
class.Actinobacteria.id.419	rs56263017	T	C	0.105	0.017	2.52E-09	16313
class.Actinobacteria.id.419	rs16831264	G	C	0.091	0.016	2.52E-09	16312
class.Actinobacteria.id.419	rs3769002	T	C	0.105	0.017	2.46E-09	16313

class.Actinobacteria.id.419	rs6723108	G	T	0.067	0.012	2.42E-09	16313
class.Actinobacteria.id.419	rs6709763	C	A	0.092	0.016	2.41E-09	16313
class.Actinobacteria.id.419	rs3213871	C	T	0.106	0.017	2.34E-09	16313
class.Actinobacteria.id.419	rs4645053	T	A	0.090	0.016	2.31E-09	16311
class.Actinobacteria.id.419	rs4640444	T	C	0.090	0.016	2.30E-09	16311
class.Actinobacteria.id.419	rs9941547	G	A	0.072	0.012	2.26E-09	16204
class.Actinobacteria.id.419	rs6749119	C	G	0.091	0.016	2.26E-09	16313
class.Actinobacteria.id.419	rs13399376	A	G	0.092	0.016	2.23E-09	16312
class.Actinobacteria.id.419	rs13402101	T	A	0.092	0.016	2.15E-09	16312
class.Actinobacteria.id.419	rs11903663	A	G	0.090	0.016	2.13E-09	16311
class.Actinobacteria.id.419	rs16832275	C	G	0.101	0.017	2.05E-09	16313
class.Actinobacteria.id.419	rs4954212	A	G	0.093	0.016	1.98E-09	16312
class.Actinobacteria.id.419	rs10179271	T	C	0.072	0.012	1.95E-09	16313
class.Actinobacteria.id.419	rs4954513	G	A	0.106	0.017	1.94E-09	16313
class.Actinobacteria.id.419	rs6721838	A	G	0.092	0.016	1.94E-09	16313
class.Actinobacteria.id.419	rs11890844	A	G	0.093	0.016	1.87E-09	16312
class.Actinobacteria.id.419	rs1401687	G	C	0.073	0.012	1.74E-09	16313
class.Actinobacteria.id.419	rs13410870	G	A	0.092	0.016	1.70E-09	16313
class.Actinobacteria.id.419	rs57829242	A	G	0.094	0.016	1.61E-09	16313
class.Actinobacteria.id.419	rs10209482	A	C	0.094	0.016	1.56E-09	16313
class.Actinobacteria.id.419	rs1551497	T	C	0.093	0.016	1.54E-09	16312
class.Actinobacteria.id.419	rs6430561	C	T	0.092	0.016	1.44E-09	16313
class.Actinobacteria.id.419	rs58327215	G	C	0.093	0.016	1.26E-09	16313
class.Actinobacteria.id.419	rs4346445	A	C	0.092	0.016	1.22E-09	16311
class.Actinobacteria.id.419	rs4954567	G	T	0.073	0.012	1.22E-09	16313
class.Actinobacteria.id.419	rs2290518	G	A	0.093	0.016	1.22E-09	16313
class.Actinobacteria.id.419	rs4953945	C	G	0.095	0.016	1.12E-09	16311
class.Actinobacteria.id.419	rs3768998	G	T	0.105	0.017	1.09E-09	16312
class.Actinobacteria.id.419	rs6741481	A	G	0.093	0.016	1.08E-09	16313
class.Actinobacteria.id.419	rs60350840	A	G	0.094	0.016	1.08E-09	16313
class.Actinobacteria.id.419	rs11884903	T	C	0.094	0.016	1.05E-09	16313

class.Actinobacteria.id.419	rs7565149	T	A	0.094	0.016	1.04E-09	16313
class.Actinobacteria.id.419	rs62168934	A	G	0.094	0.016	1.03E-09	16313
class.Actinobacteria.id.419	rs10174944	C	T	0.094	0.016	1.02E-09	16312
class.Actinobacteria.id.419	rs7601683	C	T	0.094	0.016	1.01E-09	16313
class.Actinobacteria.id.419	rs7603805	A	G	0.094	0.016	9.44E-10	16313
class.Actinobacteria.id.419	rs11888951	T	C	0.094	0.016	9.10E-10	16313
class.Actinobacteria.id.419	rs4954220	C	A	0.093	0.016	8.71E-10	16313
class.Actinobacteria.id.419	rs4953946	T	G	0.094	0.016	8.54E-10	16313
class.Actinobacteria.id.419	rs1900741	C	T	0.086	0.014	8.46E-10	16313
class.Actinobacteria.id.419	rs16831498	G	C	0.095	0.016	8.35E-10	16313
class.Actinobacteria.id.419	rs7565268	T	C	0.095	0.016	8.29E-10	16313
class.Actinobacteria.id.419	rs56174523	A	C	0.095	0.016	8.27E-10	16313
class.Actinobacteria.id.419	rs7577258	G	A	0.095	0.016	7.95E-10	16313
class.Actinobacteria.id.419	rs2017831	C	T	0.095	0.016	7.91E-10	16313
class.Actinobacteria.id.419	rs7601696	C	A	0.095	0.016	7.76E-10	16313
class.Actinobacteria.id.419	rs921859	A	G	0.095	0.016	7.46E-10	16313
class.Actinobacteria.id.419	rs6760553	A	G	0.095	0.016	7.41E-10	16313
class.Actinobacteria.id.419	rs61087958	C	T	0.094	0.016	7.35E-10	16313
class.Actinobacteria.id.419	rs10186594	A	G	0.095	0.016	6.87E-10	16313
class.Actinobacteria.id.419	rs4954214	C	T	0.095	0.016	6.86E-10	16313
class.Actinobacteria.id.419	rs4954217	C	T	0.095	0.016	6.85E-10	16313
class.Actinobacteria.id.419	rs13413872	G	T	0.095	0.016	6.77E-10	16313
class.Actinobacteria.id.419	rs13402112	A	C	0.095	0.016	6.77E-10	16313
class.Actinobacteria.id.419	rs58697996	G	A	0.094	0.016	6.37E-10	16313
class.Actinobacteria.id.419	rs56903548	C	T	0.095	0.016	6.24E-10	16313
class.Actinobacteria.id.419	rs58426504	T	G	0.094	0.016	6.12E-10	16313
class.Actinobacteria.id.419	rs62168941	C	T	0.095	0.016	6.05E-10	16313
class.Actinobacteria.id.419	rs13409400	A	C	0.095	0.016	5.81E-10	16313
class.Actinobacteria.id.419	rs4953947	A	C	0.096	0.016	5.37E-10	16313
class.Actinobacteria.id.419	rs11898045	T	C	0.094	0.016	5.34E-10	16313
class.Actinobacteria.id.419	rs10182750	T	C	0.096	0.016	5.26E-10	16313

class.Actinobacteria.id.419	rs62168942	T	C	0.096	0.016	5.19E-10	16313
class.Actinobacteria.id.419	rs7573600	G	C	0.095	0.016	5.15E-10	16313
class.Actinobacteria.id.419	rs4954215	G	A	0.096	0.016	4.92E-10	16313
class.Actinobacteria.id.419	rs10167884	C	T	0.096	0.016	4.92E-10	16313
class.Actinobacteria.id.419	rs7422031	C	T	0.095	0.016	4.81E-10	16313
class.Actinobacteria.id.419	rs4954216	G	A	0.096	0.016	4.60E-10	16313
class.Actinobacteria.id.419	rs10208624	C	T	0.095	0.016	4.46E-10	16313
class.Actinobacteria.id.419	rs4953948	T	G	0.096	0.016	4.45E-10	16313
class.Actinobacteria.id.419	rs10167809	C	T	0.096	0.016	4.44E-10	16313
class.Actinobacteria.id.419	rs7568525	G	A	0.095	0.016	4.39E-10	16313
class.Actinobacteria.id.419	rs10167901	C	T	0.096	0.016	4.18E-10	16313
class.Actinobacteria.id.419	rs13389481	C	A	0.098	0.016	3.88E-10	16311
class.Actinobacteria.id.419	rs2016636	G	A	0.080	0.013	3.27E-10	16313
class.Actinobacteria.id.419	rs6704561	C	T	0.078	0.012	3.07E-10	16182
class.Actinobacteria.id.419	rs10193348	A	G	0.096	0.016	3.07E-10	16313
class.Actinobacteria.id.419	rs2874739	C	T	0.097	0.016	2.66E-10	16313
class.Actinobacteria.id.419	rs12328663	T	C	0.097	0.016	2.41E-10	16313
class.Actinobacteria.id.419	rs6747073	T	C	0.081	0.012	1.55E-10	16311
class.Actinobacteria.id.419	rs1375132	A	G	0.082	0.012	7.46E-11	16311
class.Actinobacteria.id.419	rs3820794	T	C	0.086	0.013	7.33E-11	16313
class.Actinobacteria.id.419	rs7581382	T	C	-0.085	0.014	6.88E-11	15292
class.Actinobacteria.id.419	rs935613	C	T	0.083	0.013	6.41E-11	16313
class.Actinobacteria.id.419	rs1030764	T	C	0.087	0.013	6.07E-11	16313
class.Actinobacteria.id.419	rs11893318	T	C	0.109	0.017	5.76E-11	16312
class.Actinobacteria.id.419	rs932206	T	C	0.076	0.012	5.45E-11	16182
class.Actinobacteria.id.419	rs2278544	G	A	0.087	0.013	5.15E-11	16313
class.Actinobacteria.id.419	rs2680880	T	A	0.077	0.012	4.86E-11	16313
class.Actinobacteria.id.419	rs2278683	A	C	0.110	0.017	4.71E-11	16312
class.Actinobacteria.id.419	rs4954551	G	A	0.110	0.017	4.36E-11	16313
class.Actinobacteria.id.419	rs6714750	A	G	0.085	0.013	4.33E-11	16182
class.Actinobacteria.id.419	rs7587285	T	C	0.110	0.017	3.94E-11	16313

class.Actinobacteria.id.419	rs11679933	T	G	0.080	0.012	3.67E-11	16309
class.Actinobacteria.id.419	rs12616520	T	A	0.088	0.013	2.96E-11	16313
class.Actinobacteria.id.419	rs2304599	G	C	0.088	0.013	2.88E-11	16313
class.Actinobacteria.id.419	rs10928545	G	A	0.088	0.013	2.73E-11	16313
class.Actinobacteria.id.419	rs62160860	G	C	0.113	0.017	2.68E-11	16310
class.Actinobacteria.id.419	rs10188066	A	G	0.088	0.013	2.62E-11	16313
class.Actinobacteria.id.419	rs9287442	G	A	0.089	0.013	2.26E-11	16313
class.Actinobacteria.id.419	rs6760329	G	A	0.089	0.013	2.09E-11	16313
class.Actinobacteria.id.419	rs11693502	T	C	0.081	0.012	1.96E-11	16312
class.Actinobacteria.id.419	rs10187402	C	G	0.085	0.013	1.65E-11	16308
class.Actinobacteria.id.419	rs1374329	A	G	0.088	0.013	1.29E-11	16313
class.Actinobacteria.id.419	rs12469709	T	C	0.088	0.013	7.78E-12	16313
class.Actinobacteria.id.419	rs12994270	A	T	0.088	0.013	6.73E-12	16313
class.Actinobacteria.id.419	rs13413639	C	A	0.088	0.013	6.40E-12	16313
class.Actinobacteria.id.419	rs11679508	T	A	0.088	0.013	6.11E-12	16313
class.Actinobacteria.id.419	rs1869829	A	G	0.087	0.012	5.20E-12	16313
class.Actinobacteria.id.419	rs10192827	A	G	0.089	0.013	5.09E-12	16311
class.Actinobacteria.id.419	rs12619365	C	T	0.088	0.013	5.05E-12	16313
class.Actinobacteria.id.419	rs10173394	T	C	0.089	0.013	5.02E-12	16313
class.Actinobacteria.id.419	rs4954279	G	A	0.088	0.013	5.01E-12	16313
class.Actinobacteria.id.419	rs3213889	G	A	0.089	0.013	4.86E-12	16313
class.Actinobacteria.id.419	rs12998387	G	A	0.089	0.013	4.84E-12	16313
class.Actinobacteria.id.419	rs2011946	A	C	0.084	0.012	4.82E-12	16308
class.Actinobacteria.id.419	rs13412397	A	G	0.089	0.013	4.80E-12	16313
class.Actinobacteria.id.419	rs7608045	T	C	0.088	0.013	4.58E-12	16313
class.Actinobacteria.id.419	rs4954276	A	G	0.089	0.013	4.56E-12	16313
class.Actinobacteria.id.419	rs10928542	G	A	0.088	0.013	4.39E-12	16313
class.Actinobacteria.id.419	rs7355359	T	C	0.089	0.013	3.78E-12	16313
class.Actinobacteria.id.419	rs6430589	C	G	0.089	0.013	3.74E-12	16312
class.Actinobacteria.id.419	rs1438304	G	A	0.089	0.013	3.70E-12	16313
class.Actinobacteria.id.419	rs1438307	T	G	0.089	0.013	3.70E-12	16313

class.Actinobacteria.id.419	rs10195620	T	A	0.089	0.013	3.61E-12	16313
class.Actinobacteria.id.419	rs12998016	T	C	0.090	0.013	3.55E-12	16312
class.Actinobacteria.id.419	rs6755383	C	T	0.089	0.013	3.45E-12	16313
class.Actinobacteria.id.419	rs6715856	T	C	0.089	0.013	3.37E-12	16313
class.Actinobacteria.id.419	rs313524	C	T	0.089	0.013	3.16E-12	16313
class.Actinobacteria.id.419	rs10202489	A	G	0.090	0.013	3.05E-12	16313
class.Actinobacteria.id.419	rs6720287	A	G	0.089	0.013	3.04E-12	16313
class.Actinobacteria.id.419	rs656326	A	C	0.089	0.013	3.03E-12	16313
class.Actinobacteria.id.419	rs1011361	A	G	0.090	0.013	3.03E-12	16312
class.Actinobacteria.id.419	rs1438305	G	C	0.090	0.013	2.92E-12	16313
class.Actinobacteria.id.419	rs313522	T	A	0.089	0.013	2.59E-12	16313
class.Actinobacteria.id.419	rs313523	G	A	0.089	0.013	2.51E-12	16313
class.Actinobacteria.id.419	rs28453840	A	G	0.090	0.013	2.50E-12	16312
class.Actinobacteria.id.419	rs1446584	A	G	0.089	0.013	2.48E-12	16313
class.Actinobacteria.id.419	rs11684545	T	G	0.090	0.013	2.26E-12	16313
class.Actinobacteria.id.419	rs4954280	A	G	0.090	0.013	2.26E-12	16313
class.Actinobacteria.id.419	rs313528	G	A	0.090	0.013	2.21E-12	16313
class.Actinobacteria.id.419	rs2034276	A	T	0.090	0.013	2.21E-12	16313
class.Actinobacteria.id.419	rs71348715	T	G	0.090	0.013	2.18E-12	16313
class.Actinobacteria.id.419	rs2082729	T	C	0.091	0.013	2.16E-12	16313
class.Actinobacteria.id.419	rs313526	C	T	0.090	0.013	2.15E-12	16313
class.Actinobacteria.id.419	rs313517	A	G	0.090	0.013	1.97E-12	16313
class.Actinobacteria.id.419	rs71348714	A	G	0.090	0.013	1.94E-12	16313
class.Actinobacteria.id.419	rs10928546	T	C	0.091	0.013	1.62E-12	16313
class.Actinobacteria.id.419	rs749873	T	C	0.085	0.012	1.51E-12	16313
class.Actinobacteria.id.419	rs313518	C	T	0.091	0.013	1.22E-12	16313
class.Actinobacteria.id.419	rs2164210	C	T	0.090	0.012	1.12E-12	16313
class.Actinobacteria.id.419	rs313519	A	C	0.091	0.013	1.07E-12	16313
class.Actinobacteria.id.419	rs12475139	T	A	0.089	0.012	7.64E-13	16182
class.Actinobacteria.id.419	rs1470457	A	G	0.093	0.013	7.35E-13	16313
class.Actinobacteria.id.419	rs2322659	C	T	0.093	0.013	5.97E-13	16313

class.Actinobacteria.id.419	rs17261772	T	C	0.092	0.012	4.30E-13	16182
class.Actinobacteria.id.419	rs748841	T	C	0.092	0.012	4.03E-13	16313
class.Actinobacteria.id.419	rs12988076	A	C	0.092	0.012	3.79E-13	16313
class.Actinobacteria.id.419	rs2322660	T	C	0.092	0.012	3.40E-13	16313
class.Actinobacteria.id.419	rs3769005	G	C	0.092	0.012	3.39E-13	16313
class.Actinobacteria.id.419	rs3739020	T	G	0.094	0.013	3.36E-13	16310
class.Actinobacteria.id.419	rs892715	C	T	0.092	0.012	3.22E-13	16313
class.Actinobacteria.id.419	rs6719488	T	G	0.092	0.012	3.10E-13	16313
class.Actinobacteria.id.419	rs6742283	G	A	0.092	0.012	3.01E-13	16310
class.Actinobacteria.id.419	rs745500	A	G	0.093	0.012	2.42E-13	16313
class.Actinobacteria.id.419	rs3754686	C	T	0.093	0.012	1.86E-13	16313
class.Actinobacteria.id.419	rs11681248	T	C	0.089	0.012	1.25E-13	16308
class.Actinobacteria.id.419	rs12620033	G	C	0.095	0.012	6.00E-14	16313
class.Actinobacteria.id.419	rs6716536	C	T	0.092	0.012	5.27E-14	16182
class.Actinobacteria.id.419	rs2236783	A	G	0.096	0.012	4.86E-14	16313
class.Actinobacteria.id.419	rs4954490	A	G	0.096	0.012	3.49E-14	16308
class.Actinobacteria.id.419	rs309149	C	T	0.098	0.012	1.20E-14	16313
class.Actinobacteria.id.419	rs309137	T	C	0.096	0.012	1.18E-14	16313
class.Actinobacteria.id.419	rs4988183	T	C	0.099	0.013	9.46E-15	16312
class.Actinobacteria.id.419	rs309164	T	C	0.100	0.012	4.14E-15	16313
class.Actinobacteria.id.419	rs309125	C	T	0.098	0.012	3.91E-15	16312
class.Actinobacteria.id.419	rs632632	T	C	0.099	0.012	2.20E-15	16312
class.Actinobacteria.id.419	rs1561277	C	A	0.097	0.012	2.15E-15	16182
class.Actinobacteria.id.419	rs12615624	A	G	0.101	0.012	1.57E-15	16313
class.Actinobacteria.id.419	rs309180	A	G	0.100	0.012	1.26E-15	16313
class.Actinobacteria.id.419	rs6759321	G	T	0.099	0.012	7.16E-16	16182
class.Actinobacteria.id.419	rs218174	A	G	0.102	0.012	5.95E-16	16312
class.Actinobacteria.id.419	rs309168	C	T	0.102	0.012	4.88E-16	16313
class.Actinobacteria.id.419	rs309134	G	A	0.104	0.012	3.71E-16	16312
class.Actinobacteria.id.419	rs309160	C	T	0.102	0.012	3.41E-16	16313
class.Actinobacteria.id.419	rs13404551	T	C	0.104	0.012	9.54E-17	16311

class.Actinobacteria.id.419	rs687670	T	C	0.106	0.012	2.45E-17	16313
class.Actinobacteria.id.419	rs13023281	T	C	-0.104	0.013	1.58E-17	15292
class.Actinobacteria.id.419	rs1375131	T	C	0.106	0.012	9.16E-19	16312
class.Actinobacteria.id.419	rs12465802	G	A	0.106	0.012	8.79E-19	16313
class.Actinobacteria.id.419	rs1446585	A	G	0.109	0.012	7.71E-19	16182
class.Actinobacteria.id.419	rs6754311	T	C	0.108	0.012	4.18E-19	16312
class.Actinobacteria.id.419	rs36084664	A	G	-0.110	0.013	2.80E-19	15292
class.Actinobacteria.id.419	rs7570971	C	A	0.107	0.012	2.56E-19	16182
class.Actinobacteria.id.419	rs6730157	A	G	0.108	0.012	2.43E-19	16313
class.Actinobacteria.id.419	rs4988235	A	G	0.110	0.012	1.50E-19	16313
class.Actinobacteria.id.419	rs182549	T	C	0.111	0.012	3.79E-20	16313
order.Clostridiales.id.1863	rs290772	A	G	0.084	0.020	1.00E-05	17129
order.Burkholderiales.id.2874	rs10182740	G	A	0.062	0.014	9.99E-06	17095
order.Bacteroidales.id.913	rs79585701	C	A	0.065	0.015	9.99E-06	18334
order.Victivallales.id.2254	rs253710	C	T	0.104	0.023	9.95E-06	4734
order.Bifidobacteriales.id.432	rs10831953	A	G	0.054	0.012	9.95E-06	14915
order.Pasteurellales.id.3688	rs8125536	C	T	-0.066	0.015	9.93E-06	9368
order.MollicutesRF9.id.11579	rs3932485	T	C	0.063	0.014	9.93E-06	10359
order.NB1n.id.3953	rs72671349	C	T	0.165	0.037	9.92E-06	4887
order.Clostridiales.id.1863	rs1842454	A	G	-0.054	0.013	9.92E-06	18340
order.Burkholderiales.id.2874	rs7986644	A	G	-0.048	0.011	9.91E-06	17096
order.Burkholderiales.id.2874	rs7997285	C	T	-0.048	0.011	9.91E-06	17097
order.Verrucomicrobiales.id.4030	rs28613890	C	T	0.063	0.014	9.91E-06	11865
order.Bifidobacteriales.id.432	rs11674937	G	C	0.060	0.014	9.88E-06	14915
order.Bacillales.id.1674	rs1287018	A	G	0.141	0.032	9.87E-06	3207
order.Lactobacillales.id.1800	rs2370086	T	G	-0.080	0.018	9.85E-06	17183
order.MollicutesRF9.id.11579	rs2459830	C	T	0.061	0.014	9.85E-06	10359
order.Bacillales.id.1674	rs4915738	G	C	-0.139	0.032	9.84E-06	3239
order.Bifidobacteriales.id.432	rs4954189	G	A	0.052	0.012	9.83E-06	14915
order.Methanobacteriales.id.120	rs73248946	A	G	-0.222	0.049	9.83E-06	3203
order.Selenomonadales.id.2165	rs2103109	A	C	0.047	0.011	9.81E-06	18171

order.Verrucomicrobiales.id.4030	rs10005131	T	G	0.061	0.014	9.81E-06	11865
order.Lactobacillales.id.1800	rs28450391	A	G	0.060	0.013	9.80E-06	17290
order.Rhodospirillales.id.2667	rs2194876	C	T	-0.097	0.022	9.79E-06	8603
order.Gastranaerophilales.id.1591	rs8028558	G	A	0.083	0.019	9.78E-06	5875
order.Coriobacteriales.id.810	rs1397793	A	G	-0.050	0.011	9.77E-06	17527
order.Clostridiales.id.1863	rs3792064	A	G	0.080	0.018	9.75E-06	17812
order.Rhodospirillales.id.2667	rs13336560	T	C	-0.070	0.016	9.75E-06	8112
order.Burkholderiales.id.2874	rs75242906	T	C	-0.121	0.028	9.75E-06	10766
order.Lactobacillales.id.1800	rs11720390	A	G	0.100	0.022	9.73E-06	15940
order.Methanobacteriales.id.120	rs10501707	A	G	0.110	0.025	9.72E-06	3698
order.Rhodospirillales.id.2667	rs72714477	A	T	0.113	0.026	9.71E-06	8520
order.Coriobacteriales.id.810	rs45480394	G	T	-0.050	0.011	9.71E-06	17413
order.MollicutesRF9.id.11579	rs4524269	C	T	0.088	0.020	9.70E-06	10358
order.Rhodospirillales.id.2667	rs11936579	A	T	-0.097	0.022	9.70E-06	8603
order.Burkholderiales.id.2874	rs10444649	C	T	-0.048	0.011	9.70E-06	17097
order.Methanobacteriales.id.120	rs4385899	C	T	0.110	0.025	9.69E-06	3698
order.Actinomycetales.id.420	rs35110659	G	T	0.076	0.017	9.69E-06	7667
order.Bifidobacteriales.id.432	rs10221893	T	C	0.054	0.012	9.68E-06	14915
order.Verrucomicrobiales.id.4030	rs2865331	G	A	0.062	0.014	9.67E-06	11864
order.Erysipelotrichales.id.2148	rs2638904	A	G	0.047	0.011	9.64E-06	18215
order.Rhodospirillales.id.2667	rs67824877	T	G	0.070	0.016	9.63E-06	8600
order.Clostridiales.id.1863	rs6442336	T	C	-0.055	0.012	9.63E-06	18333
order.Desulfovibrionales.id.3156	rs7163129	T	C	-0.057	0.013	9.62E-06	15144
order.Coriobacteriales.id.810	rs7540303	T	C	0.048	0.011	9.62E-06	17691
order.Lactobacillales.id.1800	rs12371930	G	A	-0.104	0.023	9.62E-06	15471
order.Verrucomicrobiales.id.4030	rs941682	A	G	-0.063	0.014	9.61E-06	11809
order.Bacillales.id.1674	rs10425560	T	A	0.112	0.025	9.60E-06	3239
order.Bifidobacteriales.id.432	rs4954274	G	A	0.089	0.020	9.60E-06	14915
order.Clostridiales.id.1863	rs10209007	C	G	0.080	0.018	9.60E-06	17812
order.Bacillales.id.1674	rs4834178	G	A	-0.164	0.037	9.59E-06	3015
order.Rhodospirillales.id.2667	rs12522947	C	G	-0.109	0.025	9.58E-06	8581

order.Selenomonadales.id.2165	rs12572508	C	T	0.047	0.011	9.58E-06	18171
order.Burkholderiales.id.2874	rs9569799	A	G	-0.048	0.011	9.57E-06	17096
order.Methanobacteriales.id.120	rs10830292	T	G	0.110	0.025	9.56E-06	3698
order.Rhodospirillales.id.2667	rs7078649	C	A	0.103	0.024	9.56E-06	8602
order.Verrucomicrobiales.id.4030	rs1988252	G	A	0.062	0.014	9.56E-06	11864
order.NB1n.id.3953	rs267949	C	T	0.096	0.022	9.55E-06	5107
order.Burkholderiales.id.2874	rs2528688	G	A	-0.048	0.011	9.55E-06	17096
order.Rhodospirillales.id.2667	rs10181850	A	C	0.089	0.020	9.55E-06	8603
order.Burkholderiales.id.2874	rs7988274	A	C	-0.048	0.011	9.54E-06	17096
order.Bifidobacteriales.id.432	rs13424016	G	A	0.053	0.012	9.54E-06	14914
order.Erysipelotrichales.id.2148	rs8096144	C	G	-0.086	0.019	9.53E-06	17405
order.Erysipelotrichales.id.2148	rs1884466	T	C	-0.048	0.011	9.53E-06	18205
order.MollicutesRF9.id.11579	rs12046539	T	C	-0.069	0.016	9.52E-06	9973
order.Clostridiales.id.1863	rs6126494	T	G	-0.097	0.021	9.51E-06	17405
order.Coriobacteriales.id.810	rs62448870	A	G	-0.048	0.011	9.50E-06	17527
order.Bifidobacteriales.id.432	rs4988163	G	T	0.071	0.016	9.50E-06	14915
order.Rhodospirillales.id.2667	rs1593368	T	C	-0.097	0.022	9.49E-06	8603
order.Enterobacteriales.id.3468	rs4792380	T	A	0.116	0.026	9.49E-06	12763
order.MollicutesRF9.id.11579	rs444387	G	A	-0.069	0.016	9.48E-06	9971
order.MollicutesRF9.id.11579	rs7801843	G	A	-0.087	0.019	9.47E-06	10359
order.Pasteurellales.id.3688	rs731534	G	C	-0.099	0.022	9.46E-06	9115
order.Burkholderiales.id.2874	rs986833	A	G	-0.048	0.011	9.45E-06	17096
order.Enterobacteriales.id.3468	rs11026530	C	T	0.082	0.019	9.43E-06	13485
order.NB1n.id.3953	rs12358432	C	T	-0.114	0.025	9.43E-06	5105
order.Burkholderiales.id.2874	rs9527759	T	C	-0.048	0.011	9.43E-06	17097
order.Clostridiales.id.1863	rs7687278	T	A	0.065	0.015	9.41E-06	18340
order.MollicutesRF9.id.11579	rs11102971	T	C	-0.068	0.016	9.39E-06	9973
order.Rhodospirillales.id.2667	rs79569783	G	A	-0.098	0.022	9.37E-06	8569
order.Clostridiales.id.1863	rs13105690	C	T	-0.053	0.012	9.37E-06	18340
order.NB1n.id.3953	rs6741388	C	T	0.089	0.020	9.36E-06	5105
order.Methanobacteriales.id.120	rs9532770	T	C	0.124	0.028	9.34E-06	3319

order.Victivallales.id.2254	rs1363428	A	G	0.104	0.023	9.33E-06	4734
order.Enterobacteriales.id.3468	rs79757635	A	C	0.076	0.017	9.32E-06	13419
order.Rhodospirillales.id.2667	rs3754623	G	T	0.089	0.020	9.31E-06	8602
order.Verrucomicrobiales.id.4030	rs12904881	G	A	0.058	0.013	9.30E-06	11865
order.Bifidobacteriales.id.432	rs309154	C	T	0.072	0.016	9.29E-06	14915
order.Erysipelotrichales.id.2148	rs7826267	G	T	-0.084	0.020	9.28E-06	17586
order.Bifidobacteriales.id.432	rs2349959	A	T	0.056	0.013	9.28E-06	14915
order.Methanobacteriales.id.120	rs10424197	A	G	-0.111	0.025	9.28E-06	3698
order.Selenomonadales.id.2165	rs1135612	A	G	0.053	0.012	9.26E-06	18164
order.Actinomycetales.id.420	rs11055874	C	T	0.077	0.017	9.23E-06	7711
order.Bifidobacteriales.id.432	rs68005421	G	C	0.055	0.012	9.22E-06	14795
order.Actinomycetales.id.420	rs7133400	C	G	0.077	0.017	9.21E-06	7711
order.NB1n.id.3953	rs267955	A	G	0.097	0.022	9.20E-06	5090
order.Victivallales.id.2254	rs62481809	C	G	0.103	0.023	9.20E-06	4724
order.Pasteurellales.id.3688	rs12050685	G	A	-0.067	0.015	9.19E-06	9411
order.Burkholderiales.id.2874	rs11124197	T	C	0.060	0.013	9.17E-06	16986
order.Erysipelotrichales.id.2148	rs12938302	C	T	-0.075	0.017	9.17E-06	18207
order.Clostridiales.id.1863	rs1497088	G	C	-0.070	0.015	9.14E-06	18340
order.Selenomonadales.id.2165	rs10787507	C	G	-0.055	0.013	9.14E-06	18162
order.Rhodospirillales.id.2667	rs3768869	A	G	0.089	0.020	9.12E-06	8603
order.Verrucomicrobiales.id.4030	rs36010840	C	T	0.063	0.014	9.11E-06	11864
order.Burkholderiales.id.2874	rs1409526	A	G	-0.049	0.011	9.10E-06	17097
order.Clostridiales.id.1863	rs7667168	T	C	0.066	0.015	9.10E-06	18340
order.Bacteroidales.id.913	rs62531359	G	T	0.066	0.015	9.09E-06	18320
order.MollicutesRF9.id.11579	rs10745353	G	A	-0.069	0.016	9.08E-06	9973
order.Pasteurellales.id.3688	rs9895850	C	T	-0.176	0.041	9.08E-06	4737
order.Verrucomicrobiales.id.4030	rs28811282	G	A	0.062	0.014	9.06E-06	11864
order.Lactobacillales.id.1800	rs80205102	T	C	-0.059	0.013	9.06E-06	17295
order.Burkholderiales.id.2874	rs2217928	T	C	-0.049	0.011	9.05E-06	17097
order.Bacillales.id.1674	rs10025761	C	T	-0.164	0.037	9.04E-06	3015
order.Bacillales.id.1674	rs6673795	G	A	-0.140	0.032	9.03E-06	3237

order.Verrucomicrobiales.id.4030	rs28858161	T	C	0.062	0.014	9.03E-06	11864
order.Coriobacteriales.id.810	rs2442778	A	G	-0.116	0.026	9.03E-06	13472
order.Desulfovibrionales.id.3156	rs55744759	G	A	-0.077	0.017	9.02E-06	15144
order.Burkholderiales.id.2874	rs9563571	T	C	-0.049	0.011	9.02E-06	17097
order.Rhodospirillales.id.2667	rs74354280	T	C	-0.089	0.020	9.01E-06	8603
order.NB1n.id.3953	rs72671372	G	A	0.165	0.037	9.01E-06	4887
order.Desulfovibrionales.id.3156	rs72647048	C	T	-0.077	0.017	9.00E-06	15144
order.Methanobacteriales.id.120	rs11018664	G	A	0.110	0.025	9.00E-06	3698
order.Clostridiales.id.1863	rs10517722	G	C	0.066	0.015	9.00E-06	18339
order.Bacillales.id.1674	rs12434451	T	G	-0.139	0.032	8.99E-06	3239
order.MollicutesRF9.id.11579	rs10745352	C	T	-0.069	0.016	8.97E-06	9973
order.Burkholderiales.id.2874	rs9563572	C	T	-0.049	0.011	8.96E-06	17097
order.Verrucomicrobiales.id.4030	rs12024893	A	G	0.063	0.014	8.96E-06	11864
order.Bifidobacteriales.id.432	rs558520	T	C	0.071	0.016	8.95E-06	14915
order.Burkholderiales.id.2874	rs7996696	G	A	-0.049	0.011	8.95E-06	17096
order.Lactobacillales.id.1800	rs13379080	T	C	-0.080	0.018	8.94E-06	17184
order.Actinomycetales.id.420	rs12831981	T	G	0.077	0.017	8.93E-06	7711
order.Burkholderiales.id.2874	rs9537900	A	G	-0.049	0.011	8.90E-06	17097
order.Bacteroidales.id.913	rs1505366	G	T	-0.107	0.024	8.89E-06	11853
order.Bifidobacteriales.id.432	rs189135960	C	T	0.093	0.020	8.88E-06	14915
order.Bacillales.id.1674	rs79431317	T	G	-0.158	0.036	8.86E-06	3061
order.Bacillales.id.1674	rs11034576	G	A	0.206	0.045	8.86E-06	3076
order.Burkholderiales.id.2874	rs74840119	G	C	-0.091	0.020	8.85E-06	16132
order.Burkholderiales.id.2874	rs976935	C	A	-0.048	0.011	8.85E-06	17090
order.Clostridiales.id.1863	rs7269302	T	A	-0.097	0.021	8.84E-06	17405
order.Burkholderiales.id.2874	rs74692987	G	A	-0.054	0.013	8.84E-06	16664
order.Burkholderiales.id.2874	rs1036451	T	C	-0.049	0.011	8.80E-06	17096
order.Bifidobacteriales.id.432	rs10496759	C	G	0.064	0.014	8.80E-06	14914
order.Clostridiales.id.1863	rs6536525	G	C	0.066	0.015	8.79E-06	18339
order.Rhodospirillales.id.2667	rs56021351	G	C	0.101	0.023	8.79E-06	8600
order.Bacteroidales.id.913	rs4146051	G	A	-0.107	0.025	8.76E-06	11372

order.Gastranaerophilales.id.1591	rs11806158	C	A	-0.082	0.019	8.76E-06	5878
order.Bifidobacteriales.id.432	rs72717414	C	G	0.055	0.012	8.75E-06	14915
order.MollicutesRF9.id.11579	rs6695482	G	C	-0.069	0.016	8.75E-06	9973
order.Lactobacillales.id.1800	rs2559847	C	T	-0.099	0.022	8.75E-06	15956
order.Bifidobacteriales.id.432	rs61253125	T	C	0.071	0.016	8.75E-06	14915
order.Desulfovibrionales.id.3156	rs186073	C	T	0.053	0.012	8.74E-06	14841
order.Bacillales.id.1674	rs1871737	C	A	-0.164	0.037	8.74E-06	3015
order.Burkholderiales.id.2874	rs56104821	C	A	0.057	0.013	8.72E-06	17093
order.Pasteurellales.id.3688	rs73139353	C	A	-0.223	0.048	8.71E-06	4047
order.Bifidobacteriales.id.432	rs4954187	C	T	0.052	0.012	8.71E-06	14915
order.Methanobacteriales.id.120	rs41288287	C	T	0.199	0.044	8.70E-06	3501
order.Lactobacillales.id.1800	rs78017832	G	T	-0.101	0.022	8.69E-06	15845
order.Coriobacteriales.id.810	rs60426889	G	T	-0.050	0.011	8.69E-06	17689
order.Methanobacteriales.id.120	rs3912664	G	T	0.110	0.025	8.67E-06	3698
order.Victivallales.id.2254	rs73113483	A	T	-0.131	0.029	8.66E-06	4718
order.Bifidobacteriales.id.432	rs55888705	G	A	0.054	0.012	8.66E-06	14914
order.Burkholderiales.id.2874	rs7322915	A	T	-0.050	0.011	8.66E-06	17097
order.Erysipelotrichales.id.2148	rs10134361	G	A	0.071	0.016	8.66E-06	18217
order.MollicutesRF9.id.11579	rs10071529	C	G	0.125	0.028	8.64E-06	10147
order.Bifidobacteriales.id.432	rs11739543	G	A	0.055	0.012	8.63E-06	14915
order.Verrucomicrobiales.id.4030	rs736124	T	A	-0.074	0.017	8.63E-06	11593
order.Burkholderiales.id.2874	rs9569779	A	G	-0.049	0.011	8.63E-06	17097
order.MollicutesRF9.id.11579	rs11102969	A	G	-0.069	0.016	8.61E-06	9973
order.Bifidobacteriales.id.432	rs115554641	C	G	0.055	0.012	8.60E-06	14915
order.Burkholderiales.id.2874	rs9569804	G	A	-0.049	0.011	8.60E-06	17097
order.Selenomonadales.id.2165	rs10885514	A	G	-0.053	0.013	8.58E-06	18165
order.Clostridiales.id.1863	rs76860606	G	C	0.094	0.023	8.58E-06	17579
order.Methanobacteriales.id.120	rs12303159	C	A	-0.223	0.049	8.56E-06	3203
order.Burkholderiales.id.2874	rs1544475	C	T	-0.048	0.011	8.54E-06	17097
order.Pasteurellales.id.3688	rs77529231	T	C	-0.224	0.050	8.54E-06	3638
order.Enterobacteriales.id.3468	rs61973590	G	C	-0.061	0.013	8.54E-06	13570

order.Bifidobacteriales.id.432	rs12446429	C	T	0.081	0.019	8.53E-06	14008
order.Coriobacteriales.id.810	rs12974142	A	G	0.079	0.018	8.51E-06	17413
order.Verrucomicrobiales.id.4030	rs72663751	G	A	0.065	0.015	8.50E-06	11860
order.Erysipelotrichales.id.2148	rs10144017	G	A	0.069	0.016	8.50E-06	18217
order.Bifidobacteriales.id.432	rs80261410	T	C	0.062	0.014	8.48E-06	14795
order.Bifidobacteriales.id.432	rs2305165	A	C	0.093	0.020	8.48E-06	14915
order.Burkholderiales.id.2874	rs1470456	A	G	-0.049	0.011	8.48E-06	17097
order.Bacteroidales.id.913	rs4916508	A	G	-0.047	0.011	8.47E-06	18324
order.Bifidobacteriales.id.432	rs309162	T	A	0.071	0.016	8.46E-06	14915
order.Methanobacteriales.id.120	rs73068003	T	G	-0.158	0.035	8.45E-06	3692
order.Burkholderiales.id.2874	rs9527748	G	A	-0.049	0.011	8.44E-06	17096
order.Selenomonadales.id.2165	rs2834062	G	A	0.049	0.011	8.44E-06	18171
order.Verrucomicrobiales.id.4030	rs72663802	C	T	0.065	0.015	8.44E-06	11865
order.Clostridiales.id.1863	rs6536526	T	A	0.066	0.015	8.44E-06	18339
order.Bifidobacteriales.id.432	rs4954275	C	T	0.092	0.020	8.43E-06	14915
order.Bifidobacteriales.id.432	rs7572152	C	G	0.081	0.019	8.42E-06	14816
order.Bifidobacteriales.id.432	rs7561565	T	G	0.071	0.016	8.42E-06	14915
order.Bacillales.id.1674	rs6587921	C	T	-0.141	0.032	8.42E-06	3239
order.Verrucomicrobiales.id.4030	rs4595371	A	G	0.063	0.014	8.42E-06	11864
order.Clostridiales.id.1863	rs72738886	C	T	0.087	0.019	8.42E-06	16934
order.Burkholderiales.id.2874	rs9537921	A	G	-0.049	0.011	8.41E-06	17097
order.NB1n.id.3953	rs80270230	C	G	0.176	0.039	8.41E-06	4261
order.Burkholderiales.id.2874	rs13385989	A	C	0.060	0.014	8.40E-06	16664
order.Lactobacillales.id.1800	rs74663707	T	C	0.098	0.022	8.40E-06	15695
order.Pasteurellales.id.3688	rs6100166	G	C	0.067	0.015	8.38E-06	9115
order.Rhodospirillales.id.2667	rs35982688	T	C	0.070	0.016	8.37E-06	8599
order.Bifidobacteriales.id.432	rs4072434	G	C	0.055	0.012	8.36E-06	14915
order.Bacteroidales.id.913	rs17343978	C	A	-0.055	0.012	8.36E-06	18334
order.Rhodospirillales.id.2667	rs76208018	A	G	0.114	0.026	8.34E-06	8520
order.Burkholderiales.id.2874	rs9537908	T	C	-0.049	0.011	8.34E-06	17096
order.Lactobacillales.id.1800	rs2370083	T	G	-0.081	0.018	8.33E-06	17183

order.Bifidobacteriales.id.432	rs72717440	A	T	0.055	0.012	8.33E-06	14915
order.NB1n.id.3953	rs8126056	C	T	-0.158	0.035	8.32E-06	5089
order.Bifidobacteriales.id.432	rs11688302	C	T	0.057	0.013	8.32E-06	14915
order.Bifidobacteriales.id.432	rs56784995	T	C	0.092	0.020	8.31E-06	14915
order.MollicutesRF9.id.11579	rs609343	A	T	-0.087	0.019	8.31E-06	10359
order.Lactobacillales.id.1800	rs111552159	G	C	0.129	0.029	8.31E-06	11312
order.Bacteroidales.id.913	rs12486971	T	C	-0.060	0.014	8.30E-06	18327
order.Bacillales.id.1674	rs10404781	G	A	0.113	0.025	8.28E-06	3239
order.Burkholderiales.id.2874	rs1036450	T	A	-0.049	0.011	8.27E-06	17096
order.Victivallales.id.2254	rs1895249	G	T	0.105	0.023	8.27E-06	4733
order.Coriobacteriales.id.810	rs3025411	G	A	0.093	0.021	8.27E-06	15671
order.Burkholderiales.id.2874	rs9537872	A	G	-0.049	0.011	8.24E-06	17096
order.Burkholderiales.id.2874	rs9537865	C	T	-0.049	0.011	8.23E-06	17096
order.Pasteurellales.id.3688	rs9938097	C	T	-0.071	0.016	8.23E-06	9402
order.Methanobacteriales.id.120	rs6508769	C	T	0.154	0.034	8.23E-06	3319
order.Methanobacteriales.id.120	rs74599069	C	A	0.221	0.049	8.22E-06	3342
order.Lactobacillales.id.1800	rs11837200	T	C	-0.099	0.022	8.21E-06	15956
order.Rhodospirillales.id.2667	rs55840599	C	T	0.114	0.026	8.20E-06	8518
order.Verrucomicrobiales.id.4030	rs4294419	G	A	0.063	0.014	8.19E-06	11864
order.Clostridiales.id.1863	rs76767978	A	G	0.070	0.016	8.18E-06	18329
order.Burkholderiales.id.2874	rs9537904	G	A	-0.049	0.011	8.17E-06	17096
order.Bifidobacteriales.id.432	rs79176913	C	A	0.072	0.016	8.15E-06	14915
order.Victivallales.id.2254	rs1002941	A	G	0.105	0.023	8.15E-06	4734
order.Coriobacteriales.id.810	rs11073596	G	T	0.051	0.011	8.14E-06	17527
order.Bifidobacteriales.id.432	rs309150	T	A	0.071	0.016	8.14E-06	14915
order.Lactobacillales.id.1800	rs57737477	A	G	-0.053	0.012	8.14E-06	17292
order.Verrucomicrobiales.id.4030	rs7538356	A	C	0.064	0.014	8.12E-06	11864
order.MollicutesRF9.id.11579	rs12566890	G	T	-0.103	0.024	8.11E-06	10339
order.Bifidobacteriales.id.432	rs6750549	A	G	0.072	0.016	8.10E-06	14795
order.NB1n.id.3953	rs59824299	A	T	-0.107	0.024	8.10E-06	5105
order.NB1n.id.3953	rs61833604	G	A	-0.168	0.038	8.10E-06	4533

order.Rhodospirillales.id.2667	rs12518525	A	G	-0.110	0.025	8.09E-06	8583
order.Bacteroidales.id.913	rs1365795	T	C	0.090	0.020	8.08E-06	17298
order.Rhodospirillales.id.2667	rs7623329	C	A	-0.071	0.016	8.07E-06	8595
order.Gastranaerophilales.id.1591	rs28678345	C	T	0.213	0.047	8.06E-06	4315
order.MollicutesRF9.id.11579	rs10510175	G	A	0.089	0.020	8.05E-06	10358
order.Erysipelotrichales.id.2148	rs290833	G	T	-0.050	0.011	8.03E-06	17789
order.Coriobacteriales.id.810	rs11656361	C	A	0.077	0.018	8.02E-06	16665
order.Bifidobacteriales.id.432	rs7581814	C	G	0.071	0.016	8.01E-06	14915
order.Erysipelotrichales.id.2148	rs61865709	G	A	-0.053	0.012	8.00E-06	17789
order.Burkholderiales.id.2874	rs1511453	G	A	0.091	0.020	8.00E-06	17032
order.Burkholderiales.id.2874	rs6579313	G	A	-0.090	0.020	7.99E-06	16136
order.Bifidobacteriales.id.432	rs72717415	G	A	0.055	0.012	7.98E-06	14915
order.Rhodospirillales.id.2667	rs3730086	G	A	0.080	0.018	7.98E-06	8602
order.Burkholderiales.id.2874	rs9537940	C	A	-0.049	0.011	7.98E-06	17097
order.Coriobacteriales.id.810	rs1834859	T	G	-0.057	0.013	7.97E-06	17686
order.Verrucomicrobiales.id.4030	rs4107636	G	C	0.063	0.014	7.95E-06	11864
order.Bifidobacteriales.id.432	rs659440	T	A	0.072	0.016	7.93E-06	14915
order.Actinomycetales.id.420	rs11055873	A	G	0.078	0.017	7.93E-06	7711
order.MollicutesRF9.id.11579	rs652651	G	A	-0.069	0.016	7.93E-06	9972
order.Bifidobacteriales.id.432	rs6889494	C	T	0.055	0.012	7.91E-06	14915
order.Burkholderiales.id.2874	rs2528678	C	T	-0.049	0.011	7.90E-06	17097
order.Rhodospirillales.id.2667	rs17022723	T	C	-0.098	0.022	7.90E-06	8603
order.NB1n.id.3953	rs72669400	T	C	0.166	0.037	7.90E-06	4886
order.Clostridiales.id.1863	rs11082866	A	T	-0.051	0.012	7.89E-06	18321
order.NB1n.id.3953	rs6051857	G	A	-0.134	0.029	7.88E-06	5085
order.MollicutesRF9.id.11579	rs114184530	C	T	-0.155	0.034	7.88E-06	7196
order.Rhodospirillales.id.2667	rs55876211	T	C	-0.087	0.020	7.87E-06	8596
order.Coriobacteriales.id.810	rs62448869	A	T	-0.049	0.011	7.87E-06	17527
order.Rhodospirillales.id.2667	rs57340984	C	T	0.111	0.025	7.87E-06	8598
order.Verrucomicrobiales.id.4030	rs4600885	A	C	0.063	0.014	7.86E-06	11864
order.Rhodospirillales.id.2667	rs11818728	C	T	0.070	0.016	7.84E-06	8599

order.Enterobacteriales.id.3468	rs6069866	G	C	0.058	0.013	7.83E-06	13514
order.Coriobacteriales.id.810	rs7896306	T	G	0.072	0.016	7.82E-06	17691
order.Selenomonadales.id.2165	rs4463806	C	T	-0.054	0.013	7.81E-06	18160
order.Rhodospirillales.id.2667	rs61350907	T	A	-0.098	0.022	7.81E-06	8603
order.MollicutesRF9.id.11579	rs4970840	G	A	-0.070	0.016	7.80E-06	9973
order.Burkholderiales.id.2874	rs9537922	T	C	-0.049	0.011	7.80E-06	17097
order.NB1n.id.3953	rs7072640	G	C	-0.106	0.024	7.80E-06	5105
order.Coriobacteriales.id.810	rs13307134	T	C	0.057	0.013	7.80E-06	17527
order.Bifidobacteriales.id.432	rs2090660	C	T	0.062	0.014	7.78E-06	14795
order.Selenomonadales.id.2165	rs58649672	C	G	0.047	0.011	7.78E-06	18156
order.NB1n.id.3953	rs56328886	A	T	0.166	0.037	7.78E-06	4887
order.Rhodospirillales.id.2667	rs17793087	T	C	0.070	0.016	7.77E-06	8602
order.Lactobacillales.id.1800	rs12797734	C	T	0.057	0.013	7.77E-06	16820
order.Desulfovibrionales.id.3156	rs7164160	T	A	-0.057	0.013	7.76E-06	15144
order.Rhodospirillales.id.2667	rs11945729	G	A	-0.098	0.022	7.75E-06	8603
order.Pasteurellales.id.3688	rs6972479	G	A	-0.078	0.018	7.75E-06	8616
order.Bacillales.id.1674	rs1910440	A	G	-0.159	0.035	7.74E-06	3075
order.Gastranaerophilales.id.1591	rs113884518	C	T	-0.206	0.046	7.74E-06	4434
order.NB1n.id.3953	rs166849	A	G	0.091	0.020	7.74E-06	5107
order.MollicutesRF9.id.11579	rs949341	A	G	0.066	0.015	7.73E-06	10355
order.Bacillales.id.1674	rs79143961	C	A	-0.159	0.035	7.71E-06	3059
order.Bifidobacteriales.id.432	rs4988201	A	G	0.072	0.016	7.71E-06	14915
order.Bifidobacteriales.id.432	rs6707350	C	T	0.081	0.019	7.70E-06	14816
order.Bifidobacteriales.id.432	rs56182240	C	T	0.055	0.012	7.67E-06	14915
order.Bacteroidales.id.913	rs72706335	C	T	-0.222	0.049	7.66E-06	3819
order.Bifidobacteriales.id.432	rs3099429	T	A	0.071	0.016	7.65E-06	14915
order.Erysipelotrichales.id.2148	rs28703642	G	T	0.053	0.012	7.64E-06	18217
order.Methanobacteriales.id.120	rs62240389	A	G	-0.188	0.042	7.64E-06	3385
order.Victivallales.id.2254	rs6951588	T	C	0.104	0.023	7.63E-06	4728
order.Lactobacillales.id.1800	rs12448994	C	T	0.065	0.015	7.63E-06	16525
order.Enterobacteriales.id.3468	rs35673018	A	G	0.090	0.020	7.63E-06	13326

order.Erysipelotrichales.id.2148	rs7100916	T	G	-0.053	0.012	7.62E-06	17789
order.Rhodospirillales.id.2667	rs34142542	C	T	0.071	0.016	7.61E-06	8602
order.Bacillales.id.1674	rs12522021	A	T	0.174	0.040	7.60E-06	3235
order.Bacillales.id.1674	rs79653240	T	A	-0.158	0.035	7.58E-06	3061
order.Selenomonadales.id.2165	rs1649999	G	A	0.075	0.017	7.58E-06	18036
order.Bacillales.id.1674	rs1871738	G	T	-0.166	0.037	7.58E-06	3015
order.Verrucomicrobiales.id.4030	rs79837054	T	C	0.105	0.024	7.58E-06	11216
order.Rhodospirillales.id.2667	rs1366438	A	T	0.088	0.019	7.56E-06	8602
order.Actinomycetales.id.420	rs12230967	A	G	0.078	0.017	7.54E-06	7711
order.Bifidobacteriales.id.432	rs606101	G	A	-0.054	0.012	7.54E-06	14147
order.Gastranaerophilales.id.1591	rs367480	A	G	-0.084	0.019	7.52E-06	5878
order.Lactobacillales.id.1800	rs113343986	G	A	0.050	0.011	7.52E-06	17293
order.Desulfovibrionales.id.3156	rs62020470	G	A	-0.057	0.013	7.51E-06	15144
order.NB1n.id.3953	rs72671309	T	C	0.177	0.040	7.49E-06	4448
order.Rhodospirillales.id.2667	rs71498364	C	T	0.071	0.016	7.47E-06	8588
order.Burkholderiales.id.2874	rs2528681	G	C	-0.049	0.011	7.47E-06	17097
order.MollicutesRF9.id.11579	rs4970749	A	G	-0.069	0.016	7.46E-06	9973
order.Methanobacteriales.id.120	rs4753222	G	A	0.111	0.025	7.45E-06	3698
order.Lactobacillales.id.1800	rs1595463	A	C	0.048	0.011	7.44E-06	17276
order.Methanobacteriales.id.120	rs4257531	A	G	0.164	0.036	7.44E-06	3162
order.Rhodospirillales.id.2667	rs4918686	T	G	0.070	0.016	7.43E-06	8603
order.Verrucomicrobiales.id.4030	rs72663769	T	C	0.065	0.015	7.43E-06	11861
order.MollicutesRF9.id.11579	rs12711448	T	C	-0.069	0.016	7.43E-06	9973
order.Bifidobacteriales.id.432	rs72717436	C	A	0.055	0.012	7.43E-06	14915
order.Burkholderiales.id.2874	rs1122678	T	C	-0.049	0.011	7.41E-06	17097
order.Verrucomicrobiales.id.4030	rs72663785	C	G	0.066	0.015	7.41E-06	11864
order.Actinomycetales.id.420	rs56236273	T	A	0.075	0.017	7.40E-06	7711
order.Actinomycetales.id.420	rs34951409	C	G	0.078	0.017	7.37E-06	7711
order.NB1n.id.3953	rs8126061	C	T	-0.159	0.035	7.36E-06	5089
order.MollicutesRF9.id.11579	rs3967171	C	T	0.089	0.020	7.36E-06	10358
order.Erysipelotrichales.id.2148	rs7906464	T	A	-0.053	0.012	7.35E-06	17789

order.MollicutesRF9.id.11579	rs17361688	G	A	0.089	0.020	7.34E-06	10359
order.Rhodospirillales.id.2667	rs4822789	C	G	0.073	0.016	7.33E-06	8594
order.Coriobacteriales.id.810	rs7303392	C	T	-0.057	0.013	7.32E-06	17688
order.Pasteurellales.id.3688	rs16970009	G	A	0.187	0.043	7.32E-06	4703
order.Actinomycetales.id.420	rs59800030	C	T	0.076	0.017	7.31E-06	7711
order.Bifidobacteriales.id.432	rs55932239	G	A	0.055	0.012	7.30E-06	14915
order.MollicutesRF9.id.11579	rs13100746	T	C	0.064	0.014	7.29E-06	10359
order.Rhodospirillales.id.2667	rs55947871	G	A	0.115	0.026	7.29E-06	8520
order.Bifidobacteriales.id.432	rs6899771	G	A	-0.091	0.020	7.28E-06	14150
order.Bacillales.id.1674	rs75768129	A	C	-0.158	0.035	7.27E-06	3077
order.Bacillales.id.1674	rs78915064	T	A	-0.158	0.035	7.27E-06	3077
order.Verrucomicrobiales.id.4030	rs12411321	T	C	0.074	0.017	7.24E-06	11865
order.Bifidobacteriales.id.432	rs10857328	A	T	0.056	0.013	7.24E-06	14915
order.Bifidobacteriales.id.432	rs75524146	C	T	0.074	0.016	7.23E-06	14915
order.Burkholderiales.id.2874	rs9527747	C	G	-0.049	0.011	7.23E-06	17097
order.Pasteurellales.id.3688	rs62568866	A	T	-0.118	0.026	7.23E-06	8020
order.Bacillales.id.1674	rs28838109	G	T	-0.166	0.037	7.20E-06	3015
order.Desulfovibrionales.id.3156	rs3935584	T	C	-0.052	0.012	7.20E-06	15142
order.Erysipelotrichales.id.2148	rs921306	C	T	0.049	0.011	7.20E-06	17789
order.MollicutesRF9.id.11579	rs483881	A	G	-0.087	0.019	7.18E-06	10359
order.Rhodospirillales.id.2667	rs11944431	G	A	-0.099	0.022	7.17E-06	8603
order.Bacteroidales.id.913	rs2418267	G	A	0.061	0.014	7.16E-06	17523
order.Bifidobacteriales.id.432	rs72717411	C	G	0.055	0.012	7.15E-06	14915
order.Bifidobacteriales.id.432	rs1056465	T	A	0.056	0.012	7.13E-06	14915
order.Bifidobacteriales.id.432	rs12465599	G	A	0.053	0.012	7.13E-06	14915
order.Erysipelotrichales.id.2148	rs35587059	C	T	0.048	0.011	7.13E-06	18207
order.Erysipelotrichales.id.2148	rs41300431	G	A	0.048	0.011	7.12E-06	18216
order.Verrucomicrobiales.id.4030	rs2199602	G	T	0.066	0.015	7.12E-06	11864
order.Bacillales.id.1674	rs75373115	G	A	-0.159	0.035	7.12E-06	3059
order.Lactobacillales.id.1800	rs11835118	C	T	-0.100	0.022	7.12E-06	15956
order.NB1n.id.3953	rs60775321	C	T	-0.096	0.021	7.10E-06	5101

order.Clostridiales.id.1863	rs6934062	C	G	0.052	0.012	7.09E-06	17859
order.Bacteroidales.id.913	rs11146701	G	A	0.047	0.011	7.08E-06	18220
order.Pasteurellales.id.3688	rs40513	T	G	0.118	0.026	7.08E-06	8785
order.Pasteurellales.id.3688	rs111582866	A	G	-0.114	0.026	7.07E-06	8616
order.Bifidobacteriales.id.432	rs16832624	T	C	0.061	0.014	7.07E-06	14795
order.Bifidobacteriales.id.432	rs7600925	A	G	0.093	0.020	7.06E-06	14915
order.Bacteroidales.id.913	rs62575403	T	C	0.140	0.031	7.06E-06	9668
order.Verrucomicrobiales.id.4030	rs12026127	G	A	0.064	0.014	7.05E-06	11861
order.Lactobacillales.id.1800	rs11110281	C	T	-0.102	0.022	7.03E-06	15845
order.Burkholderiales.id.2874	rs4521068	G	A	0.060	0.013	7.03E-06	16989
order.Rhodospirillales.id.2667	rs80344265	C	T	-0.099	0.022	7.03E-06	8603
order.Lactobacillales.id.1800	rs7764486	A	G	-0.098	0.022	7.01E-06	16442
order.Rhodospirillales.id.2667	rs61933850	A	G	0.165	0.036	7.00E-06	6846
order.Desulfovibrionales.id.3156	rs35236973	T	A	-0.053	0.012	6.98E-06	15135
order.Enterobacteriales.id.3468	rs80319214	G	C	0.099	0.022	6.95E-06	12641
order.Methanobacteriales.id.120	rs62241826	T	C	-0.190	0.041	6.95E-06	3383
order.Bacillales.id.1674	rs2174182	A	C	-0.159	0.035	6.92E-06	3075
order.Lactobacillales.id.1800	rs12642660	G	A	-0.071	0.016	6.92E-06	17292
order.Rhodospirillales.id.2667	rs11599418	T	C	0.071	0.016	6.91E-06	8602
order.Bifidobacteriales.id.432	rs11678502	T	C	0.055	0.012	6.90E-06	14915
order.Bacteroidales.id.913	rs73975618	A	G	-0.189	0.043	6.90E-06	3350
order.Rhodospirillales.id.2667	rs35936958	G	T	0.099	0.022	6.90E-06	8146
order.Coriobacteriales.id.810	rs8010111	A	G	-0.103	0.023	6.90E-06	15996
order.Bacillales.id.1674	rs75699854	T	C	-0.158	0.035	6.88E-06	3077
order.Actinomycetales.id.420	rs7958229	C	T	0.078	0.017	6.87E-06	7711
order.Verrucomicrobiales.id.4030	rs12045978	G	A	0.064	0.014	6.87E-06	11865
order.Bifidobacteriales.id.432	rs75128007	A	G	0.062	0.014	6.87E-06	14795
order.Bifidobacteriales.id.432	rs7174549	T	C	0.055	0.012	6.87E-06	14915
order.Burkholderiales.id.2874	rs1036449	C	T	-0.049	0.011	6.86E-06	17095
order.Erysipelotrichales.id.2148	rs12258727	T	C	-0.052	0.011	6.86E-06	18201
order.NB1n.id.3953	rs2930903	G	C	0.091	0.021	6.84E-06	4789

order.NB1n.id.3953	rs9317839	C	T	0.099	0.022	6.83E-06	5107
order.Bifidobacteriales.id.432	rs7560412	C	T	0.096	0.021	6.82E-06	14910
order.Bifidobacteriales.id.432	rs78364332	T	C	0.072	0.016	6.82E-06	14915
order.Burkholderiales.id.2874	rs6686895	A	G	0.050	0.011	6.82E-06	17095
order.Burkholderiales.id.2874	rs9537941	A	C	-0.049	0.011	6.81E-06	17097
order.Bifidobacteriales.id.432	rs1942051	A	G	0.053	0.012	6.80E-06	14915
order.Bifidobacteriales.id.432	rs676239	A	T	0.072	0.016	6.80E-06	14915
order.Bacillales.id.1674	rs17205524	A	C	-0.160	0.035	6.79E-06	3059
order.Methanobacteriales.id.120	rs62240390	C	G	-0.189	0.042	6.79E-06	3385
order.Bifidobacteriales.id.432	rs73958614	A	C	0.093	0.020	6.78E-06	14915
order.MollicutesRF9.id.11579	rs7853673	A	G	-0.062	0.014	6.73E-06	10359
order.Verrucomicrobiales.id.4030	rs61779207	A	G	-0.076	0.017	6.72E-06	11591
order.MollicutesRF9.id.11579	rs3853498	C	T	-0.070	0.016	6.72E-06	9973
order.Bifidobacteriales.id.432	rs4954218	T	G	-0.059	0.014	6.71E-06	13923
order.Bifidobacteriales.id.432	rs34847072	G	C	0.056	0.012	6.71E-06	14915
order.Bifidobacteriales.id.432	rs503227	T	C	0.072	0.016	6.71E-06	14914
order.Bifidobacteriales.id.432	rs72717432	G	A	0.056	0.012	6.69E-06	14795
order.MollicutesRF9.id.11579	rs11779863	A	G	-0.077	0.017	6.69E-06	10353
order.Bifidobacteriales.id.432	rs72717407	G	A	0.056	0.012	6.68E-06	14915
order.Bacillales.id.1674	rs7655747	A	G	-0.159	0.035	6.68E-06	3074
order.Actinomycetales.id.420	rs58484246	C	T	0.076	0.017	6.67E-06	7711
order.Burkholderiales.id.2874	rs11124193	A	G	0.061	0.013	6.67E-06	16988
order.Bifidobacteriales.id.432	rs309172	A	G	0.070	0.016	6.64E-06	14915
order.Bifidobacteriales.id.432	rs3087343	T	G	0.072	0.016	6.64E-06	14915
order.Bacillales.id.1674	rs75138708	A	C	-0.161	0.035	6.63E-06	3061
order.Bifidobacteriales.id.432	rs12472293	T	C	0.072	0.016	6.61E-06	14915
order.MollicutesRF9.id.11579	rs515984	C	T	-0.088	0.019	6.61E-06	10359
order.Burkholderiales.id.2874	rs2528680	C	T	-0.049	0.011	6.59E-06	17097
order.Rhodospirillales.id.2667	rs80346366	C	T	-0.099	0.022	6.58E-06	8603
order.Verrucomicrobiales.id.4030	rs4497215	C	T	0.064	0.014	6.55E-06	11865
order.Bacillales.id.1674	rs76884318	C	G	-0.159	0.035	6.53E-06	3074

order.Victivallales.id.2254	rs2546105	T	A	0.106	0.023	6.53E-06	4734
order.NB1n.id.3953	rs9542068	C	T	0.099	0.022	6.52E-06	5107
order.Methanobacteriales.id.120	rs11018665	T	A	0.111	0.025	6.52E-06	3698
order.Gastranaerophilales.id.1591	rs789069	C	A	-0.104	0.023	6.50E-06	5870
order.Bifidobacteriales.id.432	rs309171	G	C	0.072	0.016	6.48E-06	14915
order.Erysipelotrichales.id.2148	rs11146160	A	G	-0.052	0.011	6.47E-06	18204
order.Actinomycetales.id.420	rs17072071	A	C	-0.112	0.025	6.45E-06	7344
order.Bacillales.id.1674	rs74492413	G	C	-0.160	0.036	6.44E-06	3061
order.Rhodospirillales.id.2667	rs77468690	A	T	0.141	0.031	6.43E-06	7651
order.Bifidobacteriales.id.432	rs34453673	G	C	0.056	0.012	6.43E-06	14914
order.Bacillales.id.1674	rs74985627	G	A	-0.160	0.036	6.43E-06	3061
order.Clostridiales.id.1863	rs7964593	T	C	0.051	0.011	6.42E-06	18340
order.Victivallales.id.2254	rs35004924	A	C	0.104	0.024	6.42E-06	4701
order.Bifidobacteriales.id.432	rs12188321	C	G	0.053	0.012	6.41E-06	14915
order.Burkholderiales.id.2874	rs1926544	A	C	-0.049	0.011	6.40E-06	17097
order.Bifidobacteriales.id.432	rs16832162	T	A	0.072	0.016	6.39E-06	14915
order.Victivallales.id.2254	rs11764871	T	G	0.106	0.023	6.39E-06	4725
order.Selenomonadales.id.2165	rs34058443	T	C	0.060	0.013	6.37E-06	18162
order.Lactobacillales.id.1800	rs2952172	T	C	-0.055	0.012	6.34E-06	17291
order.Rhodospirillales.id.2667	rs72714475	G	C	0.116	0.026	6.34E-06	8520
order.Erysipelotrichales.id.2148	rs9852883	C	A	0.048	0.011	6.33E-06	18109
order.Rhodospirillales.id.2667	rs11892008	C	T	0.113	0.025	6.31E-06	8598
order.Bifidobacteriales.id.432	rs56346498	C	T	0.056	0.012	6.30E-06	14915
order.Burkholderiales.id.2874	rs10047202	C	T	0.050	0.011	6.27E-06	17096
order.Bacillales.id.1674	rs76951419	A	G	-0.159	0.035	6.27E-06	3077
order.Bacillales.id.1674	rs75538955	C	T	-0.159	0.035	6.27E-06	3077
order.Bifidobacteriales.id.432	rs12188678	T	C	0.056	0.012	6.26E-06	14915
order.Bifidobacteriales.id.432	rs10928519	C	T	0.053	0.012	6.26E-06	14915
order.Burkholderiales.id.2874	rs9537883	G	T	-0.049	0.011	6.25E-06	17097
order.Coriobacteriales.id.810	rs7912120	G	A	0.072	0.016	6.24E-06	17691
order.Lactobacillales.id.1800	rs11110276	G	T	-0.100	0.022	6.24E-06	15956

order.Burkholderiales.id.2874	rs9537885	G	A	-0.049	0.011	6.24E-06	17094
order.Burkholderiales.id.2874	rs4308141	C	G	0.061	0.013	6.23E-06	16988
order.MollicutesRF9.id.11579	rs367586	A	C	-0.070	0.016	6.22E-06	9971
order.Burkholderiales.id.2874	rs2040996	C	T	-0.049	0.011	6.21E-06	17088
order.Burkholderiales.id.2874	rs1410861	A	G	0.050	0.011	6.20E-06	17096
order.Actinomycetales.id.420	rs2110088	A	T	0.079	0.017	6.19E-06	7711
order.Lactobacillales.id.1800	rs3817331	G	A	0.050	0.011	6.18E-06	17295
order.Methanobacteriales.id.120	rs56131665	A	G	0.179	0.039	6.18E-06	3572
order.Bifidobacteriales.id.432	rs12188164	C	A	0.056	0.012	6.17E-06	14915
order.Bacillales.id.1674	rs111336356	G	A	-0.160	0.035	6.15E-06	3061
order.Bacillales.id.1674	rs113170277	G	T	-0.160	0.035	6.15E-06	3061
order.Erysipelotrichales.id.2148	rs1074800	G	A	0.049	0.011	6.15E-06	17789
order.Lactobacillales.id.1800	rs7959495	A	C	-0.101	0.022	6.13E-06	15956
order.Bifidobacteriales.id.432	rs11740891	A	G	0.054	0.012	6.11E-06	14795
order.NB1n.id.3953	rs72834941	G	A	-0.108	0.024	6.10E-06	5105
order.Bacillales.id.1674	rs12508795	C	T	-0.160	0.036	6.10E-06	3061
order.Lactobacillales.id.1800	rs80243853	A	G	-0.102	0.022	6.09E-06	15956
order.Bifidobacteriales.id.432	rs11688414	A	G	0.054	0.012	6.08E-06	14914
order.Verrucomicrobiales.id.4030	rs7693865	C	T	0.107	0.024	6.08E-06	11216
order.Methanobacteriales.id.120	rs12825290	G	C	-0.217	0.049	6.08E-06	3144
order.Coriobacteriales.id.810	rs7977399	C	T	-0.058	0.013	6.07E-06	17689
order.MollicutesRF9.id.11579	rs116086762	T	C	-0.175	0.039	6.07E-06	5933
order.Methanobacteriales.id.120	rs55721046	A	G	-0.191	0.041	6.06E-06	3381
order.Selenomonadales.id.2165	rs9423647	A	G	0.048	0.011	6.06E-06	18164
order.Burkholderiales.id.2874	rs9964679	G	A	0.053	0.012	6.06E-06	17097
order.NB1n.id.3953	rs3911620	T	C	-0.108	0.024	6.02E-06	5105
order.Rhodospirillales.id.2667	rs77304857	A	C	-0.100	0.022	6.02E-06	8602
order.Bifidobacteriales.id.432	rs10432371	G	A	0.053	0.012	6.02E-06	14915
order.Burkholderiales.id.2874	rs9537916	G	A	-0.050	0.011	6.01E-06	16664
order.Bifidobacteriales.id.432	rs677208	C	G	0.073	0.016	6.00E-06	14915
order.Bifidobacteriales.id.432	rs766271	C	T	0.054	0.012	5.98E-06	14915

order.Pasteurellales.id.3688	rs7115142	A	G	-0.068	0.015	5.97E-06	9408
order.Clostridiales.id.1863	rs11167476	C	T	0.050	0.011	5.96E-06	18339
order.MollicutesRF9.id.11579	rs9885169	A	G	0.064	0.014	5.94E-06	9917
order.Clostridiales.id.1863	rs7731599	T	C	0.050	0.011	5.93E-06	18340
order.Bifidobacteriales.id.432	rs11655079	C	T	-0.059	0.013	5.92E-06	14912
order.Methanobacteriales.id.120	rs75208022	T	C	-0.227	0.049	5.92E-06	3203
order.Bifidobacteriales.id.432	rs113974791	T	G	0.072	0.016	5.92E-06	14915
order.Bifidobacteriales.id.432	rs12986776	G	C	0.056	0.012	5.91E-06	14915
order.Coriobacteriales.id.810	rs4880783	T	G	0.057	0.013	5.90E-06	17691
order.MollicutesRF9.id.11579	rs443345	G	A	-0.070	0.016	5.89E-06	9971
order.Rhodospirillales.id.2667	rs6470867	T	C	0.117	0.026	5.88E-06	8063
order.Burkholderiales.id.2874	rs9537886	C	A	-0.050	0.011	5.83E-06	17094
order.Bifidobacteriales.id.432	rs56042615	G	A	0.056	0.012	5.83E-06	14915
order.Bifidobacteriales.id.432	rs1960171	C	T	0.060	0.013	5.82E-06	14795
order.MollicutesRF9.id.11579	rs417270	C	T	-0.070	0.016	5.81E-06	9971
order.Bifidobacteriales.id.432	rs13410301	T	C	0.054	0.012	5.79E-06	14913
order.Bacteroidales.id.913	rs7857688	G	A	0.064	0.014	5.79E-06	17523
order.Erysipelotrichales.id.2148	rs34221479	C	T	0.049	0.011	5.79E-06	18108
order.NB1n.id.3953	rs72834933	A	G	-0.108	0.024	5.79E-06	5105
order.Lactobacillales.id.1800	rs113280052	T	C	-0.102	0.022	5.78E-06	15758
order.Burkholderiales.id.2874	rs7326330	T	C	-0.050	0.011	5.76E-06	17097
order.Bifidobacteriales.id.432	rs3769018	T	C	0.094	0.020	5.76E-06	14915
order.Bacillales.id.1674	rs77552222	A	G	-0.160	0.035	5.76E-06	3077
order.Rhodospirillales.id.2667	rs72714479	G	A	0.115	0.026	5.74E-06	8520
order.Bacillales.id.1674	rs11207728	A	G	-0.145	0.032	5.73E-06	3239
order.Burkholderiales.id.2874	rs35945722	G	A	0.062	0.014	5.72E-06	16979
order.Rhodospirillales.id.2667	rs6759037	G	A	0.113	0.025	5.71E-06	8597
order.Actinomycetales.id.420	rs6488665	T	C	0.079	0.017	5.69E-06	7711
order.Actinomycetales.id.420	rs4073240	A	G	0.075	0.016	5.68E-06	7711
order.Rhodospirillales.id.2667	rs72714481	A	G	0.115	0.026	5.65E-06	8517
order.Actinomycetales.id.420	rs2377095	C	A	0.079	0.017	5.64E-06	7711

order.Coriobacteriales.id.810	rs76779974	G	C	0.077	0.017	5.63E-06	16419
order.Bacillales.id.1674	rs75536913	T	C	-0.161	0.036	5.60E-06	3061
order.Lactobacillales.id.1800	rs4293791	T	C	-0.060	0.013	5.60E-06	17294
order.Burkholderiales.id.2874	rs2094636	C	G	0.050	0.011	5.58E-06	17096
order.Pasteurellales.id.3688	rs7270573	G	C	-0.068	0.015	5.58E-06	9367
order.Bacillales.id.1674	rs10410917	C	T	0.115	0.025	5.57E-06	3239
order.Bifidobacteriales.id.432	rs11896918	A	G	0.094	0.020	5.57E-06	14915
order.Bifidobacteriales.id.432	rs1057031	G	A	0.073	0.016	5.56E-06	14915
order.Bifidobacteriales.id.432	rs56146525	A	C	0.057	0.012	5.54E-06	14915
order.Actinomycetales.id.420	rs34583783	T	G	0.124	0.026	5.54E-06	7711
order.Desulfovibrionales.id.3156	rs7199026	A	C	-0.054	0.012	5.54E-06	15142
order.Burkholderiales.id.2874	rs11128180	G	A	0.058	0.013	5.53E-06	17097
order.Rhodospirillales.id.2667	rs72714480	C	T	0.115	0.026	5.52E-06	8518
order.Bifidobacteriales.id.432	rs895285	A	G	0.074	0.016	5.52E-06	14915
order.Actinomycetales.id.420	rs61937253	C	T	0.079	0.018	5.52E-06	7667
order.Bacillales.id.1674	rs76274770	G	C	-0.161	0.035	5.51E-06	3077
order.Lactobacillales.id.1800	rs67455183	T	G	-0.071	0.016	5.51E-06	17290
order.Actinomycetales.id.420	rs7488453	A	G	0.079	0.017	5.51E-06	7711
order.Bifidobacteriales.id.432	rs3099427	A	G	0.071	0.016	5.48E-06	14915
order.Bifidobacteriales.id.432	rs75753154	T	C	0.073	0.016	5.47E-06	14915
order.Lactobacillales.id.1800	rs4131679	T	C	-0.060	0.013	5.46E-06	17295
order.Actinomycetales.id.420	rs11055860	A	G	0.079	0.017	5.46E-06	7711
order.Methanobacteriales.id.120	rs62241828	A	G	-0.193	0.042	5.45E-06	3383
order.Bacillales.id.1674	rs12509041	G	A	-0.169	0.037	5.45E-06	3015
order.Lactobacillales.id.1800	rs12368593	A	C	-0.102	0.022	5.44E-06	15956
order.Bifidobacteriales.id.432	rs309118	G	C	0.071	0.015	5.44E-06	14914
order.Actinomycetales.id.420	rs11055861	A	G	0.079	0.017	5.43E-06	7711
order.Bifidobacteriales.id.432	rs56104584	T	C	0.057	0.012	5.43E-06	14915
order.Bifidobacteriales.id.432	rs112758679	A	C	0.073	0.016	5.42E-06	14915
order.Bifidobacteriales.id.432	rs72717412	C	T	0.056	0.012	5.42E-06	14915
order.Actinomycetales.id.420	rs6488659	T	C	0.079	0.017	5.42E-06	7711

order.Erysipelotrichales.id.2148	rs56970041	G	T	0.072	0.016	5.40E-06	18217
order.Methanobacteriales.id.120	rs62241829	C	T	-0.193	0.042	5.39E-06	3383
order.Coriobacteriales.id.810	rs67561917	G	A	-0.071	0.015	5.39E-06	17333
order.Verrucomicrobiales.id.4030	rs72663756	C	T	0.066	0.015	5.39E-06	11860
order.Clostridiales.id.1863	rs9986136	G	A	0.050	0.011	5.37E-06	18340
order.Bifidobacteriales.id.432	rs7606267	T	C	0.073	0.016	5.37E-06	14915
order.Bifidobacteriales.id.432	rs540489	G	T	-0.063	0.014	5.37E-06	14688
order.Bifidobacteriales.id.432	rs72717410	A	T	0.056	0.012	5.35E-06	14914
order.Lactobacillales.id.1800	rs12600469	T	G	0.051	0.011	5.35E-06	17291
order.Rhodospirillales.id.2667	rs7098347	A	G	0.071	0.016	5.35E-06	8603
order.Methanobacteriales.id.120	rs62241827	T	G	-0.193	0.042	5.35E-06	3383
order.Verrucomicrobiales.id.4030	rs72663782	G	C	0.066	0.014	5.35E-06	11865
order.NB1n.id.3953	rs72834940	T	G	-0.108	0.024	5.35E-06	5104
order.Selenomonadales.id.2165	rs56249650	C	A	0.048	0.011	5.35E-06	18171
order.Bifidobacteriales.id.432	rs669759	T	C	-0.054	0.012	5.33E-06	14150
order.Actinomycetales.id.420	rs6488660	C	T	0.079	0.017	5.32E-06	7711
order.Desulfovibrionales.id.3156	rs72821212	G	C	-0.092	0.020	5.32E-06	15039
order.NB1n.id.3953	rs12358808	T	G	-0.120	0.026	5.31E-06	5107
order.Enterobacteriales.id.3468	rs62210022	C	T	0.070	0.016	5.30E-06	13513
order.Bacillales.id.1674	rs76491594	G	A	-0.161	0.036	5.30E-06	3061
order.Bifidobacteriales.id.432	rs6712127	A	G	0.069	0.015	5.30E-06	14915
order.Bifidobacteriales.id.432	rs2164918	T	G	0.091	0.019	5.28E-06	14915
order.MollicutesRF9.id.11579	rs62188991	C	G	-0.111	0.024	5.27E-06	9531
order.Verrucomicrobiales.id.4030	rs6668273	G	A	0.065	0.014	5.26E-06	11864
order.Bifidobacteriales.id.432	rs12187440	G	A	0.056	0.012	5.25E-06	14914
order.Coriobacteriales.id.810	rs7898585	C	T	0.073	0.016	5.25E-06	17691
order.Bifidobacteriales.id.432	rs2839740	G	T	0.075	0.016	5.22E-06	14914
order.Burkholderiales.id.2874	rs10788864	A	T	0.050	0.011	5.21E-06	17088
order.Bifidobacteriales.id.432	rs861392	T	C	0.055	0.012	5.21E-06	14914
order.Lactobacillales.id.1800	rs9445784	C	T	-0.099	0.022	5.20E-06	16439
order.Bifidobacteriales.id.432	rs309142	T	C	0.070	0.015	5.19E-06	14915

order.Verrucomicrobiales.id.4030	rs3995795	T	C	0.064	0.014	5.19E-06	11690
order.Bacillales.id.1674	rs112249356	G	T	-0.161	0.035	5.19E-06	3061
order.Victivallales.id.2254	rs72640280	G	A	0.220	0.049	5.18E-06	3816
order.MollicutesRF9.id.11579	rs638542	A	G	-0.071	0.016	5.17E-06	9970
order.Enterobacteriales.id.3468	rs504442	G	T	0.084	0.019	5.17E-06	13578
order.MollicutesRF9.id.11579	rs76373661	A	G	0.091	0.020	5.16E-06	10359
order.Bifidobacteriales.id.432	rs2230437	C	T	0.055	0.012	5.16E-06	14915
order.Clostridiales.id.1863	rs11846847	T	A	-0.072	0.015	5.16E-06	18337
order.Burkholderiales.id.2874	rs7324740	A	G	-0.051	0.011	5.14E-06	17096
order.NB1n.id.3953	rs6597703	A	C	-0.109	0.024	5.14E-06	5105
order.Bifidobacteriales.id.432	rs614193	A	T	0.072	0.016	5.14E-06	14914
order.Bifidobacteriales.id.432	rs309167	C	T	0.075	0.016	5.12E-06	14915
order.Bifidobacteriales.id.432	rs7573555	T	C	0.073	0.016	5.12E-06	14915
order.Bacteroidales.id.913	rs73846124	G	A	-0.060	0.013	5.11E-06	18334
order.Bifidobacteriales.id.432	rs6711997	T	C	0.062	0.014	5.10E-06	14915
order.Lactobacillales.id.1800	rs11730038	A	G	-0.061	0.013	5.10E-06	17295
order.Bifidobacteriales.id.432	rs1992764	C	T	0.054	0.012	5.09E-06	14915
order.Clostridiales.id.1863	rs11844758	C	A	-0.072	0.015	5.09E-06	18340
order.Burkholderiales.id.2874	rs9537878	G	A	-0.050	0.011	5.09E-06	17097
order.Lactobacillales.id.1800	rs11627423	A	C	0.050	0.011	5.09E-06	17275
order.Bifidobacteriales.id.432	rs842356	A	G	0.074	0.016	5.09E-06	14795
order.Verrucomicrobiales.id.4030	rs72663787	G	A	0.066	0.015	5.08E-06	11865
order.Erysipelotrichales.id.2148	rs3804139	C	T	0.049	0.011	5.08E-06	18215
order.Bacillales.id.1674	rs11844714	G	A	-0.143	0.032	5.06E-06	3239
order.Bifidobacteriales.id.432	rs3112496	C	T	0.071	0.016	5.05E-06	14915
order.Clostridiales.id.1863	rs10774378	C	T	0.052	0.011	5.04E-06	18339
order.Bacillales.id.1674	rs112469872	G	A	-0.162	0.036	5.03E-06	3061
order.Bifidobacteriales.id.432	rs309165	T	C	0.070	0.015	5.00E-06	14915
order.Bifidobacteriales.id.432	rs499483	G	A	0.075	0.016	4.99E-06	14914
order.Clostridiales.id.1863	rs4764517	T	C	0.052	0.011	4.98E-06	18331
order.Bacillales.id.1674	rs75919743	G	A	-0.162	0.036	4.97E-06	3061

order.Bifidobacteriales.id.432	rs7556781	A	G	0.068	0.014	4.97E-06	14915
order.Burkholderiales.id.2874	rs34177861	G	A	0.061	0.013	4.97E-06	16988
order.Bifidobacteriales.id.432	rs3099428	C	G	0.072	0.016	4.96E-06	14915
order.Erysipelotrichales.id.2148	rs9990392	T	C	0.049	0.011	4.94E-06	18215
order.Bifidobacteriales.id.432	rs67665078	G	A	0.053	0.012	4.93E-06	14914
order.Bifidobacteriales.id.432	rs660002	C	T	0.070	0.015	4.93E-06	14915
order.Enterobacteriales.id.3468	rs2374343	G	C	0.058	0.013	4.93E-06	13576
order.Bacillales.id.1674	rs4429742	T	A	-0.162	0.035	4.90E-06	3077
order.Bacillales.id.1674	rs6821115	G	A	-0.162	0.035	4.90E-06	3077
order.Bacteroidales.id.913	rs71322865	C	T	-0.059	0.013	4.90E-06	18334
order.Bifidobacteriales.id.432	rs586964	G	A	0.075	0.016	4.90E-06	14914
order.Methanobacteriales.id.120	rs11123059	A	G	-0.108	0.023	4.87E-06	3694
order.Lactobacillales.id.1800	rs8075910	G	T	0.051	0.011	4.86E-06	17290
order.Gastranaerophilales.id.1591	rs1221147	A	T	0.126	0.028	4.86E-06	5759
order.Verrucomicrobiales.id.4030	rs11724791	G	A	0.066	0.014	4.86E-06	11865
order.Bifidobacteriales.id.432	rs73797465	G	T	-0.094	0.021	4.85E-06	14795
order.Verrucomicrobiales.id.4030	rs1605923	T	G	0.066	0.014	4.84E-06	11865
order.Coriobacteriales.id.810	rs1816223	G	A	-0.059	0.013	4.84E-06	17688
order.Bifidobacteriales.id.432	rs9800013	A	G	0.065	0.015	4.84E-06	14808
order.Burkholderiales.id.2874	rs7638039	C	T	0.058	0.013	4.84E-06	17078
order.Bifidobacteriales.id.432	rs79106992	C	T	-0.084	0.018	4.83E-06	13923
order.Coriobacteriales.id.810	rs11250875	C	T	0.061	0.013	4.83E-06	17690
order.Bifidobacteriales.id.432	rs13387501	C	T	0.062	0.014	4.78E-06	14915
order.Burkholderiales.id.2874	rs7593823	G	A	0.060	0.013	4.78E-06	17097
order.Enterobacteriales.id.3468	rs7271805	C	A	0.059	0.013	4.77E-06	13513
order.Bacteroidales.id.913	rs73510188	G	A	-0.110	0.024	4.75E-06	10868
order.Bacteroidales.id.913	rs73510190	G	C	-0.110	0.024	4.75E-06	10868
order.Bifidobacteriales.id.432	rs72711368	C	T	0.057	0.012	4.75E-06	14795
order.Bacteroidales.id.913	rs929878	T	C	-0.055	0.012	4.73E-06	18334
order.Actinomycetales.id.420	rs114313061	A	C	0.080	0.018	4.73E-06	7667
order.Bifidobacteriales.id.432	rs55842567	G	A	0.057	0.012	4.73E-06	14915

order.Pasteurellales.id.3688	rs4822728	C	T	0.069	0.015	4.72E-06	9412
order.Burkholderiales.id.2874	rs1581853	G	A	-0.051	0.011	4.72E-06	16664
order.Bifidobacteriales.id.432	rs11743825	C	T	0.056	0.012	4.71E-06	14915
order.Bifidobacteriales.id.432	rs3098102	C	T	0.072	0.016	4.70E-06	14915
order.Bacteroidales.id.913	rs34986288	G	A	-0.061	0.014	4.69E-06	18329
order.Rhodospirillales.id.2667	rs11591293	T	G	0.072	0.016	4.69E-06	8602
order.Verrucomicrobiales.id.4030	rs113653192	C	T	0.108	0.024	4.68E-06	11216
order.Erysipelotrichales.id.2148	rs3804140	C	T	0.049	0.011	4.68E-06	18215
order.Methanobacteriales.id.120	rs62241839	A	G	-0.195	0.042	4.68E-06	3383
order.Rhodospirillales.id.2667	rs56250014	T	A	0.117	0.026	4.67E-06	8520
order.Coriobacteriales.id.810	rs80046645	G	C	0.256	0.056	4.66E-06	3204
order.NB1n.id.3953	rs267954	T	A	0.096	0.021	4.65E-06	5107
order.Burkholderiales.id.2874	rs12867878	G	A	-0.051	0.011	4.65E-06	17097
order.Bacteroidales.id.913	rs7157380	G	C	0.096	0.021	4.63E-06	17297
order.Bacillales.id.1674	rs12500894	T	C	-0.162	0.036	4.62E-06	3061
order.Verrucomicrobiales.id.4030	rs59317921	C	T	0.063	0.014	4.62E-06	11793
order.Methanobacteriales.id.120	rs62241837	G	A	-0.195	0.042	4.61E-06	3383
order.Methanobacteriales.id.120	rs62241838	T	C	-0.195	0.042	4.61E-06	3383
order.Bacillales.id.1674	rs74842568	A	T	-0.162	0.036	4.58E-06	3061
order.Methanobacteriales.id.120	rs62241832	G	A	-0.196	0.042	4.58E-06	3383
order.Methanobacteriales.id.120	rs62241845	T	A	-0.195	0.042	4.55E-06	3383
order.Methanobacteriales.id.120	rs62241844	G	C	-0.195	0.042	4.55E-06	3383
order.NB1n.id.3953	rs1135727	A	G	0.091	0.020	4.54E-06	5107
order.Methanobacteriales.id.120	rs7635580	G	A	-0.193	0.042	4.53E-06	3385
order.Enterobacteriales.id.3468	rs2374342	A	C	0.058	0.013	4.52E-06	13577
order.Burkholderiales.id.2874	rs1928341	G	A	0.051	0.011	4.52E-06	17096
order.Bacillales.id.1674	rs62640857	G	A	0.148	0.033	4.49E-06	3235
order.Methanobacteriales.id.120	rs56001610	G	A	-0.195	0.042	4.49E-06	3383
order.Enterobacteriales.id.3468	rs6069871	G	A	0.060	0.013	4.49E-06	13515
order.Bifidobacteriales.id.432	rs77096272	C	A	0.076	0.016	4.47E-06	14914
order.Bifidobacteriales.id.432	rs1592	A	C	0.055	0.012	4.46E-06	14915

order.Bacillales.id.1674	rs2391098	T	C	-0.163	0.036	4.46E-06	3061
order.Bifidobacteriales.id.432	rs309158	A	G	0.071	0.015	4.45E-06	14915
order.Bifidobacteriales.id.432	rs4954556	G	A	0.114	0.026	4.45E-06	8717
order.Bifidobacteriales.id.432	rs6746633	G	A	0.096	0.020	4.44E-06	14915
order.Selenomonadales.id.2165	rs56188349	C	T	-0.064	0.014	4.41E-06	17610
order.Bifidobacteriales.id.432	rs6728946	C	G	0.073	0.016	4.39E-06	14915
order.Pasteurellales.id.3688	rs35509	A	G	0.122	0.027	4.39E-06	8671
order.Burkholderiales.id.2874	rs62191107	T	C	0.062	0.013	4.39E-06	16988
order.Selenomonadales.id.2165	rs2354569	T	C	-0.049	0.011	4.39E-06	18166
order.Victivallales.id.2254	rs2031282	G	A	0.122	0.027	4.38E-06	4734
order.NB1n.id.3953	rs7088133	C	T	-0.110	0.024	4.38E-06	5106
order.Bacillales.id.1674	rs75921814	C	A	-0.163	0.036	4.36E-06	3061
order.Bifidobacteriales.id.432	rs4245838	C	T	0.105	0.023	4.34E-06	10039
order.Bacteroidales.id.913	rs60475411	T	C	-0.060	0.013	4.32E-06	18323
order.NB1n.id.3953	rs55921101	T	A	-0.109	0.024	4.32E-06	5105
order.Verrucomicrobiales.id.4030	rs12501826	G	C	0.066	0.014	4.30E-06	11865
order.Bifidobacteriales.id.432	rs59213715	A	C	0.075	0.016	4.30E-06	14915
order.Pasteurellales.id.3688	rs10965428	A	C	-0.120	0.026	4.29E-06	8873
order.Bifidobacteriales.id.432	rs479980	A	C	-0.056	0.012	4.29E-06	14146
order.Actinomycetales.id.420	rs2110087	G	A	0.079	0.017	4.28E-06	7711
order.NB1n.id.3953	rs4383094	C	T	0.149	0.032	4.28E-06	5091
order.Bacteroidales.id.913	rs13291434	C	T	0.069	0.015	4.28E-06	17400
order.Bifidobacteriales.id.432	rs73958618	A	G	0.069	0.015	4.27E-06	14915
order.Rhodospirillales.id.2667	rs2162883	T	C	0.090	0.019	4.27E-06	8602
order.Bifidobacteriales.id.432	rs3098103	T	C	0.076	0.016	4.27E-06	14915
order.Bifidobacteriales.id.432	rs7570283	T	C	0.092	0.019	4.26E-06	14915
order.Selenomonadales.id.2165	rs34660854	G	A	0.061	0.013	4.26E-06	18169
order.Gastranaerophilales.id.1591	rs12746891	A	G	-0.085	0.019	4.25E-06	5875
order.Victivallales.id.2254	rs2731834	G	C	0.109	0.024	4.24E-06	4733
order.Burkholderiales.id.2874	rs4507125	A	C	0.061	0.013	4.24E-06	17095
order.Verrucomicrobiales.id.4030	rs6832927	C	A	0.108	0.024	4.23E-06	11216

order.Burkholderiales.id.2874	rs9553336	T	G	0.093	0.020	4.23E-06	15594
order.Erysipelotrichales.id.2148	rs4078432	T	C	-0.061	0.013	4.23E-06	17789
order.Rhodospirillales.id.2667	rs16855116	C	T	0.115	0.025	4.23E-06	8601
order.Bifidobacteriales.id.432	rs11742144	G	A	0.057	0.012	4.22E-06	14915
order.Burkholderiales.id.2874	rs62191106	C	T	0.062	0.013	4.21E-06	16988
order.Bacillales.id.1674	rs17265230	T	C	-0.163	0.035	4.20E-06	3061
order.Selenomonadales.id.2165	rs4736971	C	A	-0.049	0.011	4.19E-06	18165
order.Bacteroidales.id.913	rs73510192	T	C	-0.111	0.024	4.18E-06	10868
order.Rhodospirillales.id.2667	rs16855133	A	G	0.113	0.025	4.17E-06	8593
order.Clostridiales.id.1863	rs2273429	G	A	-0.073	0.015	4.17E-06	18337
order.Desulfovibrionales.id.3156	rs2838334	A	G	0.057	0.012	4.17E-06	15144
order.Bifidobacteriales.id.432	rs4334924	G	A	0.057	0.012	4.16E-06	14910
order.Erysipelotrichales.id.2148	rs12357537	T	C	-0.054	0.012	4.15E-06	17789
order.Bifidobacteriales.id.432	rs60241067	A	T	0.062	0.013	4.15E-06	14915
order.Selenomonadales.id.2165	rs4236917	G	C	-0.049	0.011	4.15E-06	18165
order.Verrucomicrobiales.id.4030	rs11184341	C	G	0.066	0.014	4.13E-06	11864
order.Burkholderiales.id.2874	rs2613606	T	C	-0.050	0.011	4.13E-06	17092
order.Bifidobacteriales.id.432	rs6711493	A	G	0.071	0.015	4.13E-06	14915
order.Bifidobacteriales.id.432	rs62181700	A	G	-0.060	0.013	4.12E-06	14911
order.Bifidobacteriales.id.432	rs309166	C	T	0.072	0.016	4.11E-06	14915
order.Bifidobacteriales.id.432	rs10180515	T	A	0.063	0.014	4.10E-06	14915
order.Lactobacillales.id.1800	rs34989881	G	A	0.113	0.025	4.09E-06	12921
order.Bifidobacteriales.id.432	rs7574366	G	A	0.096	0.020	4.08E-06	14915
order.Erysipelotrichales.id.2148	rs8003149	T	C	0.054	0.012	4.08E-06	18213
order.Bacillales.id.1674	rs113037786	C	T	-0.163	0.036	4.08E-06	3061
order.Bifidobacteriales.id.432	rs150183636	C	T	0.096	0.020	4.08E-06	14915
order.Rhodospirillales.id.2667	rs1035406	A	G	-0.115	0.025	4.07E-06	8585
order.Bifidobacteriales.id.432	rs6880820	T	C	0.064	0.014	4.07E-06	14795
order.Victivallales.id.2254	rs17114848	A	G	0.152	0.032	4.06E-06	4734
order.Bacteroidales.id.913	rs13097740	G	A	-0.060	0.013	4.05E-06	18332
order.Bifidobacteriales.id.432	rs57243841	A	G	0.065	0.014	4.05E-06	14795

order.Erysipelotrichales.id.2148	rs4617508	T	A	-0.053	0.011	4.04E-06	18197
order.Bacteroidales.id.913	rs35665203	T	C	-0.061	0.013	4.04E-06	18334
order.Erysipelotrichales.id.2148	rs7911287	G	T	-0.053	0.011	4.03E-06	18198
order.Bifidobacteriales.id.432	rs12464050	G	T	0.076	0.016	4.03E-06	14914
order.Burkholderiales.id.2874	rs7988877	T	A	-0.051	0.011	4.02E-06	16664
order.Pasteurellales.id.3688	rs35510	G	A	0.123	0.026	4.02E-06	8671
order.Erysipelotrichales.id.2148	rs7095708	T	C	-0.053	0.011	4.01E-06	18197
order.Bifidobacteriales.id.432	rs2176716	C	T	0.063	0.014	4.01E-06	14915
order.NB1n.id.3953	rs7006687	T	C	-0.092	0.020	3.99E-06	5107
order.Rhodospirillales.id.2667	rs4278423	C	T	0.105	0.023	3.98E-06	8603
order.Rhodospirillales.id.2667	rs67973976	T	C	0.119	0.026	3.97E-06	8063
order.NB1n.id.3953	rs13385922	C	T	0.093	0.020	3.97E-06	5106
order.Actinomycetales.id.420	rs2889192	T	G	0.088	0.019	3.97E-06	7711
order.Desulfovibrionales.id.3156	rs9928243	A	C	-0.054	0.012	3.97E-06	15143
order.Lactobacillales.id.1800	rs11110282	G	A	-0.102	0.022	3.96E-06	15956
order.Actinomycetales.id.420	rs6488662	T	C	0.081	0.018	3.94E-06	7711
order.Bacteroidales.id.913	rs1996068	A	G	-0.060	0.013	3.94E-06	18332
order.Verrucomicrobiales.id.4030	rs12498518	C	T	0.067	0.014	3.94E-06	11865
order.Burkholderiales.id.2874	rs1859743	C	T	-0.050	0.011	3.94E-06	16989
order.Bacillales.id.1674	rs75545728	C	T	-0.164	0.035	3.93E-06	3061
order.Lactobacillales.id.1800	rs2975662	G	C	-0.056	0.012	3.91E-06	17291
order.Erysipelotrichales.id.2148	rs55764236	T	G	-0.054	0.012	3.89E-06	17789
order.Coriobacteriales.id.810	rs34739816	T	G	0.097	0.021	3.88E-06	16593
order.Verrucomicrobiales.id.4030	rs77055143	C	T	0.067	0.014	3.88E-06	11865
order.Rhodospirillales.id.2667	rs1549633	C	A	0.100	0.022	3.88E-06	8112
order.Bifidobacteriales.id.432	rs7589832	A	C	0.070	0.015	3.88E-06	14915
order.Bifidobacteriales.id.432	rs41269821	A	G	0.074	0.016	3.87E-06	14909
order.Bifidobacteriales.id.432	rs11684458	A	G	0.063	0.014	3.84E-06	14915
order.Selenomonadales.id.2165	rs12112489	C	T	0.049	0.011	3.84E-06	18171
order.Bifidobacteriales.id.432	rs857444	T	C	0.055	0.012	3.82E-06	14914
order.Clostridiales.id.1863	rs10774377	G	A	0.052	0.011	3.81E-06	18330

order.Bacillales.id.1674	rs80042174	G	A	-0.163	0.036	3.80E-06	3061
order.NB1n.id.3953	rs72671304	C	T	0.172	0.037	3.80E-06	4887
order.Desulfovibrionales.id.3156	rs55640204	A	G	-0.093	0.020	3.79E-06	15039
order.Lactobacillales.id.1800	rs9345899	G	A	-0.083	0.018	3.78E-06	16523
order.Burkholderiales.id.2874	rs72747231	G	C	-0.134	0.029	3.76E-06	11315
order.Bacteroidales.id.913	rs13291169	G	C	0.069	0.015	3.75E-06	17513
order.Erysipelotrichales.id.2148	rs9877119	G	A	0.049	0.011	3.74E-06	18217
order.Verrucomicrobiales.id.4030	rs111862613	C	T	0.091	0.020	3.74E-06	11621
order.Bifidobacteriales.id.432	rs7588568	C	A	-0.061	0.013	3.73E-06	14913
order.Bifidobacteriales.id.432	rs79954860	A	T	0.112	0.024	3.72E-06	12180
order.Rhodospirillales.id.2667	rs11630875	C	T	0.095	0.020	3.70E-06	8595
order.Burkholderiales.id.2874	rs12477314	C	T	0.062	0.013	3.67E-06	16989
order.Bifidobacteriales.id.432	rs621341	C	T	-0.055	0.012	3.67E-06	14150
order.Enterobacteriales.id.3468	rs111229068	T	A	0.111	0.024	3.65E-06	12350
order.Erysipelotrichales.id.2148	rs9859260	T	C	0.049	0.011	3.63E-06	18217
order.Gastranaerophilales.id.1591	rs73074665	T	A	0.165	0.036	3.62E-06	5749
order.Bacillales.id.1674	rs4580666	C	A	-0.164	0.035	3.61E-06	3077
order.Bifidobacteriales.id.432	rs7593370	C	T	0.054	0.012	3.60E-06	14915
order.Methanobacteriales.id.120	rs9942109	G	A	-0.197	0.042	3.60E-06	3383
order.Selenomonadales.id.2165	rs34884022	A	G	0.049	0.011	3.60E-06	18164
order.Bifidobacteriales.id.432	rs309120	G	C	0.072	0.016	3.59E-06	14915
order.Gastranaerophilales.id.1591	rs79790072	C	T	0.226	0.049	3.54E-06	4104
order.Lactobacillales.id.1800	rs28491054	A	G	-0.069	0.015	3.53E-06	17287
order.Bifidobacteriales.id.432	rs3814358	A	C	0.054	0.012	3.52E-06	14915
order.Clostridiales.id.1863	rs13179700	C	T	0.051	0.011	3.52E-06	18338
order.Bacillales.id.1674	rs10233278	C	T	-0.116	0.025	3.51E-06	3239
order.Bifidobacteriales.id.432	rs309159	C	T	0.073	0.016	3.51E-06	14915
order.Verrucomicrobiales.id.4030	rs12416161	C	T	0.076	0.017	3.50E-06	11864
order.Bifidobacteriales.id.432	rs56302516	C	T	0.062	0.013	3.49E-06	14795
order.Bifidobacteriales.id.432	rs4954555	T	C	0.107	0.023	3.48E-06	10039
order.Pasteurellales.id.3688	rs6092684	T	A	0.068	0.015	3.44E-06	9366

order.Verrucomicrobiales.id.4030	rs6832119	A	G	0.109	0.024	3.44E-06	11216
order.Bacteroidales.id.913	rs2875575	G	C	-0.112	0.024	3.44E-06	11349
order.Bacteroidales.id.913	rs6791217	G	T	-0.061	0.013	3.44E-06	18332
order.Enterobacteriales.id.3468	rs73280755	A	G	0.060	0.013	3.43E-06	13515
order.Methanobacteriales.id.120	rs58106718	A	T	-0.193	0.041	3.43E-06	3385
order.Pasteurellales.id.3688	rs55676407	A	G	0.134	0.029	3.41E-06	8020
order.Erysipelotrichales.id.2148	rs11718657	A	C	0.050	0.011	3.40E-06	18217
order.Erysipelotrichales.id.2148	rs11185506	C	G	0.050	0.011	3.40E-06	18217
order.Bifidobacteriales.id.432	rs16832205	G	A	0.076	0.016	3.40E-06	14915
order.NB1n.id.3953	rs7911787	T	G	-0.223	0.047	3.39E-06	3879
order.Lactobacillales.id.1800	rs2952183	C	T	-0.069	0.015	3.36E-06	17294
order.Bacteroidales.id.913	rs6777119	T	C	-0.061	0.013	3.35E-06	18334
order.Selenomonadales.id.2165	rs72643860	A	G	-0.050	0.011	3.35E-06	18166
order.Pasteurellales.id.3688	rs72756943	A	G	0.140	0.030	3.35E-06	8020
order.Bacteroidales.id.913	rs1888899	C	T	-0.112	0.024	3.35E-06	11349
order.Methanobacteriales.id.120	rs62240380	C	T	-0.193	0.041	3.32E-06	3385
order.Bifidobacteriales.id.432	rs111682961	C	T	0.077	0.016	3.32E-06	14914
order.Lactobacillales.id.1800	rs7187700	G	A	0.058	0.013	3.31E-06	17295
order.NB1n.id.3953	rs11606187	G	A	-0.155	0.033	3.31E-06	5102
order.Lactobacillales.id.1800	rs9445783	A	T	-0.101	0.022	3.31E-06	16442
order.Erysipelotrichales.id.2148	rs3761717	C	G	0.050	0.011	3.30E-06	18217
order.Bacteroidales.id.913	rs17085791	G	C	-0.111	0.024	3.28E-06	11349
order.Selenomonadales.id.2165	rs12113541	A	G	0.049	0.011	3.28E-06	18163
order.Enterobacteriales.id.3468	rs6092361	G	A	0.060	0.013	3.27E-06	13518
order.Burkholderiales.id.2874	rs2321387	A	G	-0.051	0.011	3.26E-06	17095
order.Bifidobacteriales.id.432	rs79826902	G	A	0.077	0.016	3.24E-06	14915
order.Bifidobacteriales.id.432	rs6743537	G	A	0.075	0.016	3.22E-06	14915
order.Desulfovibrionales.id.3156	rs112381107	T	C	0.210	0.046	3.22E-06	4455
order.Bifidobacteriales.id.432	rs6430549	A	G	0.055	0.012	3.22E-06	14915
order.Selenomonadales.id.2165	rs35636125	A	G	0.049	0.011	3.21E-06	18171
order.Bifidobacteriales.id.432	rs2053726	A	G	0.055	0.012	3.21E-06	14915

order.Methanobacteriales.id.120	rs3923545	G	C	0.207	0.045	3.20E-06	3498
order.Bacteroidales.id.913	rs13060907	G	A	-0.061	0.013	3.17E-06	18332
order.Bifidobacteriales.id.432	rs7575241	C	A	0.071	0.015	3.17E-06	14915
order.Bifidobacteriales.id.432	rs6430585	C	A	0.070	0.014	3.17E-06	14915
order.Lactobacillales.id.1800	rs78368499	C	T	-0.101	0.022	3.16E-06	16442
order.Bacteroidales.id.913	rs59082732	T	G	-0.112	0.024	3.13E-06	11349
order.Enterobacteriales.id.3468	rs62210023	G	A	0.061	0.013	3.13E-06	13515
order.Gastranaerophilales.id.1591	rs7549147	G	A	-0.086	0.019	3.13E-06	5874
order.Bacillales.id.1674	rs113506874	A	G	-0.164	0.035	3.11E-06	3077
order.Selenomonadales.id.2165	rs9929374	A	G	-0.050	0.011	3.11E-06	18171
order.MollicutesRF9.id.11579	rs739151	G	C	0.065	0.014	3.09E-06	10337
order.Bacteroidales.id.913	rs17026821	T	C	-0.061	0.013	3.09E-06	18334
order.Lactobacillales.id.1800	rs17151854	G	T	-0.072	0.016	3.09E-06	17295
order.Bifidobacteriales.id.432	rs16832243	C	T	0.077	0.016	3.09E-06	14915
order.NB1n.id.3953	rs267962	T	C	0.098	0.021	3.09E-06	5107
order.Bifidobacteriales.id.432	rs10174462	C	G	0.071	0.015	3.08E-06	14915
order.Bacillales.id.1674	rs74420793	G	A	-0.164	0.035	3.07E-06	3077
order.Bacteroidales.id.913	rs17026797	G	T	-0.061	0.013	3.07E-06	18332
order.Methanobacteriales.id.120	rs62240388	A	G	-0.196	0.042	3.06E-06	3342
order.Verrucomicrobiales.id.4030	rs2169719	A	G	0.068	0.015	3.06E-06	11859
order.Erysipelotrichales.id.2148	rs13072608	T	C	0.050	0.011	3.05E-06	18217
order.Bacteroidales.id.913	rs2183908	T	C	-0.111	0.024	3.03E-06	11349
order.Bacteroidales.id.913	rs13100590	T	C	-0.061	0.013	3.00E-06	18334
order.Methanobacteriales.id.120	rs6541968	T	C	-0.111	0.024	2.96E-06	3698
order.Selenomonadales.id.2165	rs61249479	C	A	0.078	0.017	2.95E-06	18165
order.Bifidobacteriales.id.432	rs7569447	A	C	0.077	0.017	2.95E-06	14915
order.Bifidobacteriales.id.432	rs721765	C	A	0.077	0.016	2.94E-06	14915
order.Bifidobacteriales.id.432	rs1446523	G	A	0.055	0.012	2.94E-06	14915
order.Verrucomicrobiales.id.4030	rs11252894	C	A	0.077	0.017	2.94E-06	11864
order.Bifidobacteriales.id.432	rs79769806	A	G	-0.086	0.018	2.93E-06	13923
order.Selenomonadales.id.2165	rs1447205	C	G	-0.050	0.011	2.93E-06	18165

order.NB1n.id.3953	rs267958	G	A	0.098	0.021	2.93E-06	5107
order.Verrucomicrobiales.id.4030	rs117107102	G	A	0.205	0.043	2.92E-06	4975
order.Burkholderiales.id.2874	rs76625259	T	G	-0.094	0.020	2.91E-06	16136
order.Bacteroidales.id.913	rs17085785	C	T	-0.112	0.024	2.91E-06	11349
order.Burkholderiales.id.2874	rs62395635	C	T	0.110	0.024	2.90E-06	15062
order.Bifidobacteriales.id.432	rs10496738	C	T	0.077	0.016	2.89E-06	14915
order.Methanobacteriales.id.120	rs62241836	C	T	-0.199	0.042	2.84E-06	3383
order.Rhodospirillales.id.2667	rs7001029	T	C	0.121	0.026	2.83E-06	8063
order.Erysipelotrichales.id.2148	rs2300773	A	G	0.050	0.011	2.82E-06	18216
order.Bacteroidales.id.913	rs17085765	G	C	-0.113	0.024	2.81E-06	11349
order.Bacteroidales.id.913	rs75808613	G	A	-0.112	0.024	2.81E-06	11349
order.Bacteroidales.id.913	rs78745799	G	T	-0.112	0.024	2.81E-06	11349
order.Bifidobacteriales.id.432	rs12469411	C	T	0.055	0.012	2.81E-06	14915
order.Bifidobacteriales.id.432	rs309170	C	T	0.073	0.016	2.80E-06	14915
order.Erysipelotrichales.id.2148	rs17530232	G	A	0.103	0.022	2.79E-06	16622
order.Victivallales.id.2254	rs112022900	G	A	0.218	0.046	2.76E-06	4092
order.Victivallales.id.2254	rs45621736	G	A	0.218	0.046	2.75E-06	4093
order.Methanobacteriales.id.120	rs62240373	G	A	-0.199	0.042	2.75E-06	3383
order.Bifidobacteriales.id.432	rs1374291	T	C	0.055	0.012	2.73E-06	14915
order.Bacteroidales.id.913	rs74090642	A	G	-0.113	0.024	2.72E-06	11349
order.Bacteroidales.id.913	rs12496485	G	A	-0.062	0.013	2.72E-06	18334
order.Bifidobacteriales.id.432	rs2197579	C	T	0.055	0.012	2.72E-06	14915
order.Erysipelotrichales.id.2148	rs9859401	A	C	0.050	0.011	2.70E-06	18217
order.Bacteroidales.id.913	rs35176045	C	T	-0.061	0.013	2.70E-06	18334
order.Desulfovibrionales.id.3156	rs16851319	C	G	-0.073	0.015	2.70E-06	15130
order.Rhodospirillales.id.2667	rs4531902	T	C	0.116	0.025	2.70E-06	8600
order.Rhodospirillales.id.2667	rs3754624	T	C	0.094	0.020	2.68E-06	8598
order.Burkholderiales.id.2874	rs4591362	G	A	0.063	0.013	2.67E-06	16989
order.Bifidobacteriales.id.432	rs309161	G	A	0.074	0.016	2.67E-06	14915
order.Bacteroidales.id.913	rs34046877	T	C	-0.061	0.013	2.67E-06	18323
order.Bacteroidales.id.913	rs17085756	G	A	-0.113	0.024	2.66E-06	11349

order.Bacteroidales.id.913	rs17085776	A	G	-0.113	0.024	2.65E-06	11349
order.Verrucomicrobiales.id.4030	rs4242783	A	G	0.069	0.015	2.64E-06	11690
order.Bifidobacteriales.id.432	rs2053727	C	T	0.055	0.012	2.62E-06	14915
order.Bifidobacteriales.id.432	rs6430555	A	C	0.055	0.012	2.62E-06	14915
order.NB1n.id.3953	rs267959	G	A	0.099	0.021	2.62E-06	5107
order.Bacteroidales.id.913	rs2346324	A	G	-0.062	0.013	2.62E-06	18334
order.Desulfovibrionales.id.3156	rs11599763	C	T	-0.055	0.012	2.61E-06	15144
order.Bacteroidales.id.913	rs3946805	A	G	-0.062	0.013	2.60E-06	18334
order.Bifidobacteriales.id.432	rs112396243	C	T	0.077	0.016	2.60E-06	14915
order.Bacteroidales.id.913	rs17085809	A	G	-0.113	0.024	2.60E-06	11349
order.Clostridiales.id.1863	rs6508055	G	A	-0.059	0.013	2.58E-06	18340
order.Verrucomicrobiales.id.4030	rs2602429	T	C	0.075	0.016	2.58E-06	11690
order.Lactobacillales.id.1800	rs57872228	T	C	-0.069	0.015	2.58E-06	17293
order.Selenomonadales.id.2165	rs35924322	A	G	0.050	0.011	2.58E-06	18170
order.Bacteroidales.id.913	rs1325597	G	T	-0.056	0.012	2.57E-06	18334
order.Lactobacillales.id.1800	rs2952168	G	C	-0.058	0.012	2.57E-06	17184
order.Burkholderiales.id.2874	rs36119524	C	T	0.063	0.013	2.57E-06	16988
order.Lactobacillales.id.1800	rs2271029	C	A	0.052	0.011	2.57E-06	17295
order.Methanobacteriales.id.120	rs9594530	T	C	0.210	0.045	2.55E-06	3498
order.Verrucomicrobiales.id.4030	rs9349825	G	A	-0.070	0.015	2.54E-06	11858
order.Bacteroidales.id.913	rs1555070	C	T	-0.056	0.012	2.53E-06	18329
order.Methanobacteriales.id.120	rs56209241	G	A	-0.202	0.042	2.53E-06	3340
order.Bacteroidales.id.913	rs7491419	T	G	-0.113	0.024	2.53E-06	11349
order.Bifidobacteriales.id.432	rs12476127	A	G	0.076	0.016	2.51E-06	14915
order.Bifidobacteriales.id.432	rs11745923	T	G	0.058	0.012	2.49E-06	14914
order.Bacteroidales.id.913	rs7320487	T	C	-0.112	0.024	2.48E-06	11349
order.Bacteroidales.id.913	rs7319197	A	G	-0.112	0.024	2.48E-06	11349
order.Bifidobacteriales.id.432	rs12474975	A	T	0.077	0.016	2.48E-06	14915
order.Bifidobacteriales.id.432	rs60902646	T	C	0.095	0.020	2.47E-06	14915
order.Verrucomicrobiales.id.4030	rs1491244	A	T	0.111	0.024	2.47E-06	11216
order.Selenomonadales.id.2165	rs56371515	G	C	0.050	0.011	2.47E-06	18164

order.Selenomonadales.id.2165	rs35797647	C	G	0.050	0.011	2.47E-06	18171
order.Bifidobacteriales.id.432	rs41389446	G	T	-0.087	0.018	2.47E-06	13923
order.Methanobacteriales.id.120	rs62241834	G	T	-0.201	0.042	2.44E-06	3383
order.Coriobacteriales.id.810	rs10995776	C	T	0.082	0.017	2.44E-06	17691
order.Methanobacteriales.id.120	rs4848258	A	T	-0.112	0.024	2.44E-06	3695
order.Lactobacillales.id.1800	rs2975654	G	A	-0.058	0.012	2.43E-06	17295
order.Desulfovibrionales.id.3156	rs4506934	T	C	-0.095	0.020	2.43E-06	15037
order.Bifidobacteriales.id.432	rs62168891	C	T	0.056	0.012	2.43E-06	14915
order.Bacteroidales.id.913	rs1040016	G	T	-0.062	0.013	2.43E-06	18334
order.Burkholderiales.id.2874	rs6087810	C	T	-0.096	0.020	2.42E-06	16135
order.Bacteroidales.id.913	rs71322864	C	A	-0.062	0.013	2.42E-06	18323
order.Lactobacillales.id.1800	rs11967379	C	T	-0.103	0.022	2.40E-06	16442
order.Bacteroidales.id.913	rs2346325	A	G	-0.062	0.013	2.40E-06	18334
order.Bacteroidales.id.913	rs11916939	G	A	-0.062	0.013	2.39E-06	18334
order.Bifidobacteriales.id.432	rs7604460	T	C	0.079	0.016	2.38E-06	14795
order.Bacteroidales.id.913	rs60954548	A	G	-0.113	0.024	2.38E-06	11349
order.Bifidobacteriales.id.432	rs177917	A	G	0.074	0.016	2.37E-06	14915
order.Bifidobacteriales.id.432	rs73958638	A	G	0.112	0.024	2.36E-06	11148
order.Erysipelotrichales.id.2148	rs9867473	C	A	0.050	0.011	2.36E-06	18089
order.Bacteroidales.id.913	rs7337151	A	C	-0.113	0.024	2.35E-06	11349
order.Bifidobacteriales.id.432	rs4954191	C	G	0.055	0.012	2.34E-06	14915
order.Bifidobacteriales.id.432	rs309119	T	C	0.074	0.016	2.33E-06	14915
order.Erysipelotrichales.id.2148	rs10781552	T	C	-0.055	0.012	2.33E-06	17789
order.Bacteroidales.id.913	rs34922683	G	T	-0.062	0.013	2.32E-06	18334
order.Gastranaerophilales.id.1591	rs10817461	A	T	0.088	0.019	2.32E-06	5878
order.Verrucomicrobiales.id.4030	rs56161035	C	T	0.068	0.014	2.32E-06	11865
order.Lactobacillales.id.1800	rs78938557	C	T	0.106	0.023	2.31E-06	15152
order.Bacteroidales.id.913	rs60814075	C	T	-0.113	0.024	2.31E-06	11349
order.Bacteroidales.id.913	rs74090626	A	G	-0.113	0.024	2.30E-06	11349
order.Bifidobacteriales.id.432	rs56230617	G	A	0.073	0.016	2.30E-06	14041
order.Methanobacteriales.id.120	rs11147839	G	A	0.211	0.044	2.28E-06	3499

order.Bifidobacteriales.id.432	rs10841473	C	G	-0.061	0.013	2.28E-06	14914
order.MollicutesRF9.id.11579	rs74603314	C	T	0.231	0.049	2.28E-06	4033
order.MollicutesRF9.id.11579	rs7706512	A	G	0.066	0.014	2.27E-06	10359
order.Desulfovibrionales.id.3156	rs2692012	G	A	0.112	0.025	2.27E-06	13082
order.Desulfovibrionales.id.3156	rs17791387	G	A	-0.073	0.015	2.25E-06	15047
order.Rhodospirillales.id.2667	rs16855101	T	C	0.118	0.025	2.25E-06	8601
order.Rhodospirillales.id.2667	rs55661963	A	C	0.133	0.028	2.24E-06	8599
order.Bacteroidales.id.913	rs907713	A	C	-0.062	0.013	2.24E-06	18334
order.Bacteroidales.id.913	rs1014718	G	A	-0.056	0.012	2.21E-06	18334
order.Bacteroidales.id.913	rs61289215	C	T	-0.114	0.024	2.19E-06	11349
order.Bacteroidales.id.913	rs1022523	A	G	-0.056	0.012	2.19E-06	18333
order.Gastranaerophilales.id.1591	rs4846956	C	T	-0.087	0.019	2.18E-06	5876
order.Bifidobacteriales.id.432	rs115553816	G	A	0.078	0.016	2.18E-06	14915
order.Verrucomicrobiales.id.4030	rs12908520	A	G	0.062	0.013	2.17E-06	11863
order.Lactobacillales.id.1800	rs2952262	T	A	-0.058	0.012	2.17E-06	17292
order.Selenomonadales.id.2165	rs71405394	A	G	-0.114	0.024	2.17E-06	13861
order.Bifidobacteriales.id.432	rs4954196	A	G	0.056	0.012	2.16E-06	14915
order.Verrucomicrobiales.id.4030	rs112769434	A	G	0.111	0.024	2.16E-06	11216
order.MollicutesRF9.id.11579	rs17235252	C	T	-0.122	0.026	2.16E-06	9531
order.Bifidobacteriales.id.432	rs75667274	C	T	0.078	0.016	2.13E-06	14910
order.Bacteroidales.id.913	rs6794198	C	T	-0.062	0.013	2.12E-06	18323
order.Bacteroidales.id.913	rs74090631	A	G	-0.114	0.024	2.10E-06	11349
order.Bacteroidales.id.913	rs73510184	C	T	-0.114	0.024	2.10E-06	11349
order.Lactobacillales.id.1800	rs2952257	T	C	-0.058	0.012	2.10E-06	17291
order.Bacteroidales.id.913	rs34519192	A	G	-0.062	0.013	2.08E-06	18323
order.Bifidobacteriales.id.432	rs4954197	G	A	0.056	0.012	2.07E-06	14915
order.Bifidobacteriales.id.432	rs16831899	G	A	0.085	0.018	2.06E-06	14915
order.Bifidobacteriales.id.432	rs6430550	C	T	0.055	0.012	2.05E-06	14915
order.Bifidobacteriales.id.432	rs62168872	C	T	0.056	0.012	2.05E-06	14915
order.Pasteurellales.id.3688	rs78909003	C	T	-0.241	0.050	2.05E-06	3638
order.Bifidobacteriales.id.432	rs147616090	C	T	0.071	0.015	2.04E-06	14915

order.Bacteroidales.id.913	rs1888900	T	C	-0.114	0.024	2.03E-06	11349
order.Bifidobacteriales.id.432	rs112407062	C	T	0.078	0.016	2.02E-06	14915
order.Bifidobacteriales.id.432	rs77985886	C	T	0.098	0.020	2.02E-06	14915
order.Bifidobacteriales.id.432	rs12469941	C	T	0.056	0.012	2.02E-06	14915
order.Bacteroidales.id.913	rs73512626	C	A	-0.114	0.024	2.02E-06	11349
order.Bacteroidales.id.913	rs35532963	C	G	-0.062	0.013	2.01E-06	18323
order.Clostridiales.id.1863	rs4690986	C	G	0.072	0.015	2.01E-06	18336
order.Lactobacillales.id.1800	rs2952258	C	T	-0.058	0.012	2.01E-06	17291
order.Bifidobacteriales.id.432	rs6755391	C	T	0.085	0.018	2.00E-06	14915
order.Bifidobacteriales.id.432	rs12471781	G	A	0.079	0.016	2.00E-06	14795
order.Selenomonadales.id.2165	rs4722181	G	T	0.050	0.011	2.00E-06	18163
order.Bifidobacteriales.id.432	rs766270	G	C	0.056	0.012	2.00E-06	14915
order.Bacteroidales.id.913	rs73846120	A	G	-0.063	0.013	2.00E-06	18334
order.Bacteroidales.id.913	rs1996069	T	C	-0.063	0.013	1.99E-06	18334
order.Methanobacteriales.id.120	rs62240384	C	T	-0.198	0.041	1.99E-06	3385
order.Lactobacillales.id.1800	rs2975653	G	A	-0.058	0.012	1.98E-06	17291
order.Bacillales.id.1674	rs4617108	G	A	0.249	0.053	1.98E-06	3018
order.Gastranaerophilales.id.1591	rs10739388	T	C	0.089	0.019	1.97E-06	5878
order.Methanobacteriales.id.120	rs12711690	G	A	-0.113	0.024	1.97E-06	3691
order.Lactobacillales.id.1800	rs1962325	G	C	0.055	0.012	1.96E-06	17274
order.Selenomonadales.id.2165	rs13086907	A	G	0.063	0.013	1.95E-06	18163
order.Bacteroidales.id.913	rs60869989	G	A	-0.114	0.024	1.94E-06	11349
order.Bacteroidales.id.913	rs71322866	A	C	-0.063	0.013	1.93E-06	18334
order.Bacteroidales.id.913	rs2032750	C	T	-0.051	0.011	1.92E-06	17853
order.Victivallales.id.2254	rs11770843	T	C	0.109	0.023	1.91E-06	4705
order.Bifidobacteriales.id.432	rs55809728	G	A	0.106	0.023	1.90E-06	12282
order.Methanobacteriales.id.120	rs73031978	G	C	-0.203	0.042	1.90E-06	3340
order.Bacteroidales.id.913	rs36076607	T	C	-0.062	0.013	1.90E-06	18334
order.Bifidobacteriales.id.432	rs6710892	G	A	0.085	0.018	1.90E-06	14915
order.Methanobacteriales.id.120	rs6784384	G	A	-0.198	0.041	1.90E-06	3385
order.Bifidobacteriales.id.432	rs16832440	G	A	0.079	0.016	1.90E-06	14915

order.Methanobacteriales.id.120	rs4848970	G	T	0.116	0.024	1.89E-06	3696
order.Lactobacillales.id.1800	rs12595929	C	T	0.060	0.013	1.89E-06	17295
order.Gastranaerophilales.id.1591	rs7859354	C	T	0.089	0.019	1.89E-06	5878
order.Bifidobacteriales.id.432	rs2166480	G	A	0.056	0.012	1.89E-06	14915
order.Lactobacillales.id.1800	rs74352383	A	T	-0.103	0.022	1.88E-06	16442
order.Actinomycetales.id.420	rs35011108	G	A	0.242	0.050	1.88E-06	3630
order.Methanobacteriales.id.120	rs894996	A	C	0.217	0.045	1.88E-06	3582
order.Bacteroidales.id.913	rs60722059	A	G	-0.114	0.024	1.88E-06	11349
order.Erysipelotrichales.id.2148	rs9846149	G	C	0.051	0.011	1.87E-06	18216
order.Selenomonadales.id.2165	rs73232831	A	G	-0.152	0.031	1.87E-06	9382
order.Erysipelotrichales.id.2148	rs9863872	G	T	0.051	0.011	1.87E-06	18216
order.Methanobacteriales.id.120	rs73457427	G	A	0.213	0.045	1.86E-06	3497
order.Victivallales.id.2254	rs77599476	G	A	0.230	0.048	1.86E-06	3722
order.Bacteroidales.id.913	rs11871360	A	G	-0.203	0.044	1.86E-06	3350
order.Methanobacteriales.id.120	rs9942108	G	A	-0.203	0.042	1.85E-06	3342
order.Erysipelotrichales.id.2148	rs35161940	C	T	-0.081	0.017	1.85E-06	18213
order.Bifidobacteriales.id.432	rs1446525	G	A	0.056	0.012	1.84E-06	14915
order.Gastranaerophilales.id.1591	rs68053172	G	A	-0.088	0.019	1.84E-06	5872
order.Gastranaerophilales.id.1591	rs72765667	A	G	-0.088	0.019	1.83E-06	5872
order.Pasteurellales.id.3688	rs76022354	T	C	0.243	0.050	1.83E-06	3692
order.Bifidobacteriales.id.432	rs520449	T	C	-0.057	0.012	1.83E-06	14150
order.Rhodospirillales.id.2667	rs77497586	G	T	0.134	0.028	1.82E-06	8595
order.Bifidobacteriales.id.432	rs6732236	T	G	0.072	0.015	1.82E-06	14915
order.Bacteroidales.id.913	rs61070599	C	T	-0.115	0.024	1.82E-06	11349
order.Bifidobacteriales.id.432	rs7589297	C	A	0.056	0.012	1.81E-06	14915
order.Erysipelotrichales.id.2148	rs9852239	C	T	0.051	0.011	1.81E-06	18216
order.Bifidobacteriales.id.432	rs1374292	G	A	0.056	0.012	1.80E-06	14915
order.Bifidobacteriales.id.432	rs12469551	G	T	0.072	0.014	1.80E-06	14915
order.Bacteroidales.id.913	rs11916046	C	A	-0.063	0.013	1.79E-06	18334
order.Gastranaerophilales.id.1591	rs7204337	G	A	0.098	0.020	1.79E-06	5864
order.Erysipelotrichales.id.2148	rs2239640	T	G	0.051	0.011	1.79E-06	18216

order.Burkholderiales.id.2874	rs8119189	C	A	-0.097	0.020	1.78E-06	16136
order.Methanobacteriales.id.120	rs62240385	T	G	-0.201	0.042	1.77E-06	3342
order.Lactobacillales.id.1800	rs9581006	T	C	0.226	0.047	1.77E-06	4224
order.Bifidobacteriales.id.432	rs6708957	C	T	0.072	0.015	1.76E-06	14915
order.Bifidobacteriales.id.432	rs10176573	C	A	0.056	0.012	1.76E-06	14915
order.Bifidobacteriales.id.432	rs6430554	C	T	0.056	0.012	1.76E-06	14915
order.NB1n.id.3953	rs7923330	T	C	0.100	0.021	1.75E-06	5106
order.Lactobacillales.id.1800	rs4260895	A	C	-0.058	0.012	1.75E-06	17295
order.Lactobacillales.id.1800	rs2975655	G	A	-0.059	0.012	1.75E-06	17295
order.Bifidobacteriales.id.432	rs6706537	T	C	0.056	0.012	1.74E-06	14915
order.Victivallales.id.2254	rs2825714	G	A	-0.137	0.029	1.72E-06	4734
order.Bifidobacteriales.id.432	rs7595712	C	T	0.072	0.015	1.70E-06	14915
order.Bifidobacteriales.id.432	rs2289963	G	A	0.099	0.020	1.70E-06	14915
order.Bacteroidales.id.913	rs11920519	A	G	-0.063	0.013	1.70E-06	18331
order.Lactobacillales.id.1800	rs77558518	G	A	-0.106	0.022	1.67E-06	15758
order.Bacteroidales.id.913	rs73510178	G	A	-0.115	0.024	1.67E-06	11349
order.Bacteroidales.id.913	rs56335733	C	T	-0.115	0.024	1.66E-06	11349
order.Bacteroidales.id.913	rs73510191	A	C	-0.115	0.024	1.65E-06	11346
order.Bifidobacteriales.id.432	rs309133	A	C	0.075	0.016	1.65E-06	14913
order.Bifidobacteriales.id.432	rs309123	C	G	0.075	0.016	1.64E-06	14914
order.Bifidobacteriales.id.432	rs6430551	T	C	0.056	0.012	1.64E-06	14915
order.Methanobacteriales.id.120	rs62241835	T	G	-0.203	0.042	1.63E-06	3383
order.Verrucomicrobiales.id.4030	rs74542928	C	T	0.112	0.024	1.63E-06	11216
order.Methanobacteriales.id.120	rs6776814	C	T	-0.200	0.041	1.63E-06	3385
order.Bacteroidales.id.913	rs17085738	T	G	-0.115	0.024	1.63E-06	11349
order.Bacteroidales.id.913	rs17085746	A	G	-0.115	0.024	1.63E-06	11349
order.NB1n.id.3953	rs7920017	A	G	0.100	0.021	1.63E-06	5106
order.Bifidobacteriales.id.432	rs4954193	A	G	0.056	0.012	1.62E-06	14915
order.Bifidobacteriales.id.432	rs62168871	A	G	0.057	0.012	1.62E-06	14688
order.Erysipelotrichales.id.2148	rs2239641	C	T	0.051	0.011	1.62E-06	18216
order.Erysipelotrichales.id.2148	rs78782849	C	T	-0.092	0.019	1.61E-06	16874

order.Lactobacillales.id.1800	rs2975649	C	T	-0.059	0.012	1.61E-06	17284
order.Erysipelotrichales.id.2148	rs2284889	A	G	0.051	0.011	1.60E-06	18216
order.Methanobacteriales.id.120	rs76029318	C	T	0.215	0.045	1.58E-06	3497
order.Bacteroidales.id.913	rs7338117	A	G	-0.115	0.024	1.58E-06	11349
order.Bifidobacteriales.id.432	rs13020688	A	G	0.058	0.012	1.57E-06	14795
order.Gastranaerophilales.id.1591	rs4129396	A	G	0.090	0.019	1.56E-06	5877
order.Bifidobacteriales.id.432	rs1469995	G	A	0.072	0.015	1.55E-06	14911
order.Bifidobacteriales.id.432	rs60453613	G	C	0.072	0.015	1.55E-06	14915
order.Bacteroidales.id.913	rs7546249	A	T	-0.057	0.012	1.55E-06	18333
order.Bacteroidales.id.913	rs12486528	G	A	-0.064	0.013	1.55E-06	18334
order.Erysipelotrichales.id.2148	rs2284890	C	T	0.051	0.011	1.54E-06	18215
order.Bifidobacteriales.id.432	rs1469996	A	G	0.073	0.015	1.53E-06	14795
order.Bacteroidales.id.913	rs60660711	G	A	-0.115	0.024	1.52E-06	11347
order.Coriobacteriales.id.810	rs240104	C	T	-0.060	0.013	1.52E-06	17577
order.Bacteroidales.id.913	rs7611599	C	T	-0.063	0.013	1.49E-06	18334
order.Bifidobacteriales.id.432	rs309152	T	C	0.076	0.016	1.48E-06	14915
order.Bacteroidales.id.913	rs7629132	C	T	-0.063	0.013	1.48E-06	18325
order.Bacteroidales.id.913	rs4474577	G	A	-0.118	0.024	1.47E-06	10868
order.Erysipelotrichales.id.2148	rs76420385	G	A	-0.093	0.019	1.47E-06	16874
order.Bifidobacteriales.id.432	rs59869505	A	C	0.061	0.013	1.46E-06	14915
order.Rhodospirillales.id.2667	rs75071199	C	A	0.135	0.028	1.46E-06	8600
order.Lactobacillales.id.1800	rs11249980	C	T	-0.059	0.012	1.45E-06	17295
order.Bacteroidales.id.913	rs2225529	C	T	-0.115	0.024	1.44E-06	11341
order.Lactobacillales.id.1800	rs2952176	A	G	-0.059	0.012	1.44E-06	17289
order.Pasteurellales.id.3688	rs10840326	G	C	-0.072	0.015	1.44E-06	9154
order.Bifidobacteriales.id.432	rs16833170	A	G	0.061	0.013	1.44E-06	14915
order.Bifidobacteriales.id.432	rs10928522	C	A	0.057	0.012	1.43E-06	14915
order.Bacteroidales.id.913	rs12938514	G	A	-0.200	0.042	1.42E-06	3350
order.Methanobacteriales.id.120	rs73457410	G	A	0.215	0.044	1.41E-06	3498
order.NB1n.id.3953	rs13219468	C	G	0.115	0.024	1.41E-06	5104
order.Bifidobacteriales.id.432	rs72976292	T	A	0.061	0.013	1.41E-06	14910

order.Bifidobacteriales.id.432	rs13415439	C	A	0.061	0.013	1.40E-06	14915
order.Erysipelotrichales.id.2148	rs79329601	C	T	-0.093	0.019	1.40E-06	16874
order.Clostridiales.id.1863	rs72915163	C	T	-0.058	0.012	1.39E-06	18317
order.Bifidobacteriales.id.432	rs1446524	A	G	0.057	0.012	1.39E-06	14915
order.Erysipelotrichales.id.2148	rs2300778	G	A	0.052	0.011	1.37E-06	18216
order.Bifidobacteriales.id.432	rs56108664	C	T	0.075	0.016	1.37E-06	14041
order.Gastranaerophilales.id.1591	rs72765665	C	T	-0.089	0.019	1.35E-06	5872
order.Lactobacillales.id.1800	rs4028634	C	T	0.053	0.011	1.35E-06	17295
order.Rhodospirillales.id.2667	rs76784716	G	A	0.136	0.028	1.31E-06	8600
order.Lactobacillales.id.1800	rs2975647	G	A	-0.059	0.012	1.28E-06	17291
order.Gastranaerophilales.id.1591	rs16851659	C	G	-0.090	0.019	1.27E-06	5875
order.Gastranaerophilales.id.1591	rs4129397	A	G	0.090	0.019	1.27E-06	5877
order.Bifidobacteriales.id.432	rs7568884	C	T	0.061	0.013	1.26E-06	14915
order.Bifidobacteriales.id.432	rs1348790	C	G	0.057	0.012	1.26E-06	14915
order.Bacteroidales.id.913	rs74937713	A	T	-0.063	0.013	1.25E-06	18326
order.Bifidobacteriales.id.432	rs309122	A	G	0.075	0.015	1.25E-06	14914
order.Bifidobacteriales.id.432	rs2322251	C	T	0.057	0.012	1.24E-06	14915
order.Burkholderiales.id.2874	rs2367850	C	G	0.063	0.013	1.24E-06	16664
order.Gastranaerophilales.id.1591	rs4129395	A	G	0.090	0.019	1.22E-06	5878
order.Bacteroidales.id.913	rs73975615	A	G	-0.207	0.044	1.22E-06	3350
order.Bifidobacteriales.id.432	rs9677760	A	T	0.073	0.014	1.21E-06	14915
order.Enterobacteriales.id.3468	rs78143293	G	A	-0.085	0.017	1.20E-06	13572
order.Lactobacillales.id.1800	rs11248956	T	C	0.061	0.013	1.19E-06	17295
order.Erysipelotrichales.id.2148	rs2300777	C	A	0.052	0.011	1.18E-06	18216
order.Pasteurellales.id.3688	rs4132989	T	C	-0.084	0.017	1.18E-06	9408
order.Coriobacteriales.id.810	rs56374305	C	G	0.100	0.021	1.17E-06	17688
order.Bifidobacteriales.id.432	rs1964459	C	G	0.080	0.016	1.17E-06	14912
order.Selenomonadales.id.2165	rs60274479	C	T	-0.066	0.013	1.16E-06	17610
order.Bifidobacteriales.id.432	rs10928523	C	T	0.057	0.012	1.16E-06	14915
order.Bacteroidales.id.913	rs35800684	G	A	-0.064	0.013	1.15E-06	18334
order.Bifidobacteriales.id.432	rs4957061	C	T	0.057	0.012	1.15E-06	14795

order.Bifidobacteriales.id.432	rs1374288	C	T	0.057	0.012	1.14E-06	14915
order.Verrucomicrobiales.id.4030	rs4936098	G	A	0.065	0.014	1.12E-06	11858
order.Bifidobacteriales.id.432	rs1865452	C	T	0.073	0.015	1.12E-06	14915
order.Coriobacteriales.id.810	rs7078773	C	T	0.076	0.016	1.12E-06	17689
order.Verrucomicrobiales.id.4030	rs113634144	G	T	0.074	0.015	1.12E-06	11860
order.Bacteroidales.id.913	rs11929346	T	C	-0.064	0.013	1.10E-06	18334
order.Erysipelotrichales.id.2148	rs2300780	C	T	0.052	0.011	1.10E-06	18216
order.Erysipelotrichales.id.2148	rs9858727	T	A	0.052	0.011	1.08E-06	18216
order.Bifidobacteriales.id.432	rs60963894	T	G	0.073	0.015	1.08E-06	14915
order.Victivallales.id.2254	rs62570196	T	C	-0.216	0.044	1.08E-06	3712
order.Bifidobacteriales.id.432	rs1374287	C	T	0.057	0.012	1.06E-06	14915
order.Bifidobacteriales.id.432	rs1879087	T	C	0.105	0.024	1.05E-06	9168
order.Gastranaerophilales.id.1591	rs7206242	C	T	0.099	0.020	1.05E-06	5871
order.Bifidobacteriales.id.432	rs10496737	A	G	0.073	0.015	1.04E-06	14915
order.Bifidobacteriales.id.432	rs76671854	G	C	-0.089	0.018	1.04E-06	13923
order.Bifidobacteriales.id.432	rs78793148	C	A	0.099	0.020	1.03E-06	14795
order.Selenomonadales.id.2165	rs2921533	A	G	-0.054	0.011	1.02E-06	18171
order.Burkholderiales.id.2874	rs4511740	A	G	0.063	0.013	1.01E-06	17096
order.Burkholderiales.id.2874	rs11683769	A	T	0.064	0.013	9.92E-07	16989
order.NB1n.id.3953	rs17235747	A	C	0.103	0.021	9.92E-07	5107
order.Bifidobacteriales.id.432	rs4954575	G	A	0.062	0.013	9.86E-07	14915
order.Erysipelotrichales.id.2148	rs2300775	C	T	0.052	0.011	9.78E-07	18216
order.Erysipelotrichales.id.2148	rs79996147	A	T	-0.094	0.019	9.72E-07	16874
order.Bifidobacteriales.id.432	rs6733130	A	C	0.058	0.012	9.71E-07	14915
order.Bifidobacteriales.id.432	rs309124	A	G	0.076	0.015	9.62E-07	14914
order.Bifidobacteriales.id.432	rs1374289	C	T	0.058	0.012	9.62E-07	14914
order.Bifidobacteriales.id.432	rs7560535	G	A	0.093	0.018	9.58E-07	14914
order.Gastranaerophilales.id.1591	rs13072359	A	C	-0.144	0.029	9.37E-07	5768
order.Bacteroidales.id.913	rs111845179	C	T	0.103	0.021	9.24E-07	16393
order.Lactobacillales.id.1800	rs2952228	C	T	-0.060	0.012	9.17E-07	17291
order.Erysipelotrichales.id.2148	rs7234058	C	T	-0.095	0.019	9.12E-07	16874

order.Bacteroidales.id.913	rs2210452	G	A	-0.117	0.024	9.11E-07	11349
order.Burkholderiales.id.2874	rs11679161	C	T	0.065	0.013	9.07E-07	16989
order.Clostridiales.id.1863	rs6814436	C	T	0.074	0.015	9.06E-07	18336
order.Bifidobacteriales.id.432	rs4954571	G	A	0.065	0.014	9.01E-07	14913
order.Erysipelotrichales.id.2148	rs2300774	A	G	0.052	0.011	8.95E-07	18216
order.Bifidobacteriales.id.432	rs4567981	A	T	0.058	0.012	8.88E-07	14795
order.Bacteroidales.id.913	rs73846128	G	A	-0.065	0.013	8.76E-07	18334
order.Lactobacillales.id.1800	rs2975635	C	T	-0.060	0.012	8.37E-07	17289
order.Bacteroidales.id.913	rs7631304	A	G	-0.065	0.013	8.37E-07	18334
order.Bacteroidales.id.913	rs7337863	C	A	-0.117	0.024	8.25E-07	11349
order.Gastranaerophilales.id.1591	rs13072044	G	T	-0.148	0.030	8.25E-07	5334
order.Bacteroidales.id.913	rs80015632	C	G	-0.118	0.024	8.23E-07	11349
order.Bacteroidales.id.913	rs112675712	T	C	-0.117	0.024	8.12E-07	11349
order.Gastranaerophilales.id.1591	rs7644367	G	A	-0.144	0.029	8.09E-07	5768
order.Bacteroidales.id.913	rs17085798	C	A	-0.118	0.024	8.02E-07	11349
order.Bacteroidales.id.913	rs56949730	A	G	-0.118	0.024	7.98E-07	11349
order.Bacteroidales.id.913	rs74090627	C	T	-0.118	0.024	7.95E-07	11349
order.NB1n.id.3953	rs62436709	A	G	0.104	0.021	7.82E-07	4773
order.Coriobacteriales.id.810	rs2458655	C	A	0.078	0.016	7.77E-07	17689
order.Bacteroidales.id.913	rs2210454	C	T	-0.119	0.024	7.69E-07	11349
order.NB1n.id.3953	rs56139471	T	A	0.104	0.021	7.61E-07	5107
order.Bifidobacteriales.id.432	rs7592990	A	G	0.087	0.017	7.55E-07	14915
order.Bacteroidales.id.913	rs17085818	A	C	-0.119	0.024	7.46E-07	11349
order.Bifidobacteriales.id.432	rs2117511	T	C	0.086	0.017	7.45E-07	14915
order.Bifidobacteriales.id.432	rs578384	C	T	-0.059	0.012	7.43E-07	14147
order.Gastranaerophilales.id.1591	rs11150282	C	T	0.098	0.020	7.36E-07	5864
order.Bacteroidales.id.913	rs112343530	T	C	-0.118	0.024	7.32E-07	11349
order.Bacteroidales.id.913	rs2150960	G	C	-0.119	0.024	7.16E-07	11349
order.Desulfovibrionales.id.3156	rs6060240	C	A	0.082	0.017	7.09E-07	14418
order.Bacteroidales.id.913	rs9788409	T	C	-0.119	0.024	7.07E-07	11349
order.Gastranaerophilales.id.1591	rs12714902	G	A	-0.145	0.029	7.05E-07	5768

order.NB1n.id.3953	rs11251025	G	C	0.104	0.021	7.03E-07	5107
order.Bacteroidales.id.913	rs2210451	C	G	-0.119	0.024	7.02E-07	11349
order.NB1n.id.3953	rs7902814	G	T	0.104	0.021	6.98E-07	5104
order.Gastranaerophilales.id.1591	rs13072444	G	A	-0.145	0.029	6.94E-07	5768
order.NB1n.id.3953	rs11251023	T	C	0.104	0.021	6.85E-07	5107
order.Bifidobacteriales.id.432	rs1947112	A	G	0.059	0.012	6.85E-07	14915
order.Bifidobacteriales.id.432	rs4953938	G	A	0.058	0.012	6.84E-07	14915
order.Gastranaerophilales.id.1591	rs13095126	T	C	-0.145	0.029	6.82E-07	5768
order.Verrucomicrobiales.id.4030	rs11729256	C	T	0.075	0.015	6.73E-07	11861
order.Gastranaerophilales.id.1591	rs12714903	C	T	-0.146	0.029	6.64E-07	5768
order.NB1n.id.3953	rs11251024	A	G	0.104	0.021	6.63E-07	5107
order.Bifidobacteriales.id.432	rs625118	C	A	0.087	0.017	6.58E-07	14915
order.Methanobacteriales.id.120	rs1869500	A	C	-0.118	0.024	6.57E-07	3692
order.Lactobacillales.id.1800	rs76717940	A	T	0.161	0.033	6.55E-07	7976
order.Gastranaerophilales.id.1591	rs12491989	C	G	-0.146	0.029	6.52E-07	5768
order.Gastranaerophilales.id.1591	rs12714900	G	T	-0.146	0.029	6.31E-07	5768
order.Bacteroidales.id.913	rs60614038	T	A	-0.120	0.024	6.30E-07	11349
order.Bacteroidales.id.913	rs58298316	T	G	-0.120	0.024	6.30E-07	11349
order.Bifidobacteriales.id.432	rs3769023	G	A	0.059	0.012	6.29E-07	14915
order.Bacteroidales.id.913	rs17085771	A	T	-0.120	0.024	6.24E-07	11349
order.Methanobacteriales.id.120	rs7601415	T	A	-0.119	0.024	6.11E-07	3692
order.Gastranaerophilales.id.1591	rs13098772	C	A	-0.147	0.029	6.08E-07	5766
order.Bifidobacteriales.id.432	rs10187990	A	G	0.059	0.012	5.95E-07	14915
order.Gastranaerophilales.id.1591	rs13060131	C	T	-0.146	0.029	5.92E-07	5768
order.Burkholderiales.id.2874	rs12467854	C	G	0.066	0.013	5.91E-07	16984
order.Gastranaerophilales.id.1591	rs13072505	A	G	-0.146	0.029	5.82E-07	5768
order.Burkholderiales.id.2874	rs4033856	T	C	0.083	0.017	5.67E-07	15897
order.NB1n.id.3953	rs62436710	C	T	0.106	0.021	5.67E-07	4773
order.Gastranaerophilales.id.1591	rs13088024	T	A	-0.147	0.029	5.61E-07	5768
order.Bacteroidales.id.913	rs74090639	G	A	-0.121	0.024	5.59E-07	11349
order.Bifidobacteriales.id.432	rs638382	C	T	-0.060	0.012	5.56E-07	14148

order.Bifidobacteriales.id.432	rs56271357	C	T	0.059	0.012	5.47E-07	14915
order.Coriobacteriales.id.810	rs719099	G	A	0.078	0.016	5.43E-07	17687
order.Burkholderiales.id.2874	rs78428620	C	T	-0.102	0.020	5.28E-07	16136
order.Bifidobacteriales.id.432	rs4954557	C	T	0.065	0.013	5.19E-07	14915
order.Bifidobacteriales.id.432	rs72847650	C	A	-0.061	0.012	5.13E-07	14030
order.NB1n.id.3953	rs62436708	C	T	0.107	0.021	5.02E-07	4773
order.Pasteurellales.id.3688	rs7771624	C	A	-0.086	0.017	4.94E-07	9412
order.Bifidobacteriales.id.432	rs10166142	A	G	0.059	0.012	4.86E-07	14915
order.Bacteroidales.id.913	rs60610351	T	A	-0.121	0.024	4.85E-07	11349
order.Bifidobacteriales.id.432	rs3814355	C	T	0.059	0.012	4.83E-07	14915
order.Erysipelotrichales.id.2148	rs62504370	C	A	0.063	0.013	4.80E-07	17285
order.Lactobacillales.id.1800	rs2009619	G	A	-0.062	0.012	4.68E-07	17291
order.Bifidobacteriales.id.432	rs35564151	A	G	0.060	0.012	4.51E-07	14795
order.Bacteroidales.id.913	rs58269684	C	T	-0.121	0.024	4.49E-07	11349
order.Bacteroidales.id.913	rs56358950	T	C	-0.121	0.024	4.48E-07	11349
order.Lactobacillales.id.1800	rs17708276	G	A	-0.084	0.017	4.38E-07	17184
order.Bifidobacteriales.id.432	rs4954394	A	G	0.067	0.014	4.30E-07	14915
order.Bifidobacteriales.id.432	rs2034261	G	T	0.060	0.012	4.26E-07	14915
order.Lactobacillales.id.1800	rs35344081	A	G	0.064	0.013	4.16E-07	17292
order.Gastranaerophilales.id.1591	rs17039208	T	C	-0.148	0.029	4.15E-07	5768
order.Bifidobacteriales.id.432	rs62168897	C	T	0.060	0.012	4.15E-07	14915
order.Selenomonadales.id.2165	rs1643968	C	T	-0.057	0.011	4.15E-07	18170
order.Bacteroidales.id.913	rs73512608	A	G	-0.121	0.024	4.08E-07	11349
order.Clostridiales.id.1863	rs112334273	A	G	0.064	0.013	4.07E-07	18217
order.Bacillales.id.1674	rs76860190	A	G	-0.182	0.036	4.04E-07	3217
order.Desulfovibrionales.id.3156	rs6060237	A	G	0.082	0.017	3.97E-07	15077
order.Bifidobacteriales.id.432	rs3814354	G	A	0.060	0.012	3.95E-07	14915
order.Bacteroidales.id.913	rs55773148	A	G	-0.122	0.024	3.90E-07	11349
order.Bacteroidales.id.913	rs55993203	G	A	-0.122	0.024	3.90E-07	11349
order.Bifidobacteriales.id.432	rs4988243	T	C	0.119	0.024	3.85E-07	12180
order.Bifidobacteriales.id.432	rs6716987	C	A	0.064	0.013	3.84E-07	14915

order.Clostridiales.id.1863	rs6815608	C	T	0.104	0.021	3.72E-07	16731
order.Bifidobacteriales.id.432	rs6708336	T	A	0.060	0.012	3.72E-07	14915
order.Desulfovibrionales.id.3156	rs6060238	G	A	0.083	0.017	3.70E-07	15077
order.Desulfovibrionales.id.3156	rs6060239	T	C	0.083	0.017	3.67E-07	15076
order.Gastranaerophilales.id.1591	rs17039205	A	G	-0.149	0.029	3.64E-07	5768
order.Gastranaerophilales.id.1591	rs1010755	C	T	-0.149	0.029	3.55E-07	5768
order.Gastranaerophilales.id.1591	rs10510427	G	A	-0.150	0.029	3.51E-07	5768
order.Gastranaerophilales.id.1591	rs13084677	A	T	-0.139	0.028	3.45E-07	5767
order.Lactobacillales.id.1800	rs2952251	G	A	-0.063	0.012	3.36E-07	17278
order.Bifidobacteriales.id.432	rs2090661	A	G	0.066	0.013	3.34E-07	14912
order.Gastranaerophilales.id.1591	rs9832125	C	T	-0.139	0.028	3.26E-07	5767
order.NB1n.id.3953	rs2172426	T	C	-0.102	0.020	3.17E-07	5099
order.Bifidobacteriales.id.432	rs4954272	A	G	0.089	0.018	3.17E-07	14915
order.Bifidobacteriales.id.432	rs3820790	A	T	0.098	0.019	3.11E-07	14912
order.NB1n.id.3953	rs57230089	C	T	0.108	0.021	3.08E-07	4773
order.Pasteurellales.id.3688	rs7740611	C	A	-0.088	0.017	3.08E-07	9410
order.Rhodospirillales.id.2667	rs9813022	G	A	-0.083	0.016	3.07E-07	8600
order.Bifidobacteriales.id.432	rs56036623	T	C	0.070	0.014	3.06E-07	14915
order.Pasteurellales.id.3688	rs12191680	G	C	0.102	0.020	3.05E-07	9408
order.Methanobacteriales.id.120	rs10202904	G	T	-0.122	0.024	3.01E-07	3695
order.Bifidobacteriales.id.432	rs11895609	A	T	0.083	0.017	2.89E-07	14915
order.Burkholderiales.id.2874	rs6087811	G	T	-0.102	0.020	2.88E-07	16135
order.Erysipelotrichales.id.2148	rs62504402	C	T	0.066	0.013	2.88E-07	16874
order.Gastranaerophilales.id.1591	rs62231951	A	T	-0.153	0.029	2.82E-07	5768
order.Burkholderiales.id.2874	rs62191117	G	A	0.068	0.013	2.79E-07	16975
order.Bifidobacteriales.id.432	rs62168844	A	G	0.101	0.019	2.74E-07	14912
order.Bifidobacteriales.id.432	rs4954573	T	G	0.066	0.013	2.68E-07	14915
order.Gastranaerophilales.id.1591	rs12486770	T	A	-0.153	0.029	2.64E-07	5768
order.Gastranaerophilales.id.1591	rs13072729	T	C	-0.151	0.029	2.61E-07	5766
order.NB1n.id.3953	rs60583455	C	T	0.109	0.021	2.60E-07	4773
order.Desulfovibrionales.id.3156	rs6058181	T	C	0.084	0.017	2.53E-07	15076

order.Pasteurellales.id.3688	rs9382510	T	C	-0.088	0.017	2.48E-07	9410
order.Bifidobacteriales.id.432	rs6430601	G	T	0.085	0.017	2.46E-07	14913
order.Erysipelotrichales.id.2148	rs11990327	G	A	0.067	0.013	2.45E-07	16981
order.Gastranaerophilales.id.1591	rs6780959	A	G	-0.151	0.029	2.43E-07	5767
order.Bifidobacteriales.id.432	rs10193587	T	C	0.066	0.013	2.40E-07	14795
order.Bifidobacteriales.id.432	rs12992815	C	G	0.096	0.019	2.38E-07	14915
order.Erysipelotrichales.id.2148	rs11990200	G	A	0.067	0.013	2.37E-07	16874
order.Bifidobacteriales.id.432	rs10928558	T	C	0.066	0.013	2.34E-07	14915
order.Bifidobacteriales.id.432	rs6756200	T	C	0.062	0.012	2.33E-07	14795
order.Gastranaerophilales.id.1591	rs9863760	C	T	-0.148	0.028	2.28E-07	5767
order.Bifidobacteriales.id.432	rs60274701	G	A	0.097	0.019	2.25E-07	14915
order.Gastranaerophilales.id.1591	rs12493406	C	T	-0.155	0.029	2.20E-07	5768
order.Gastranaerophilales.id.1591	rs9883109	T	C	-0.152	0.029	2.19E-07	5768
order.Bifidobacteriales.id.432	rs80274970	C	T	0.108	0.021	2.18E-07	14427
order.Bifidobacteriales.id.432	rs13007153	T	C	0.068	0.013	2.09E-07	14910
order.Gastranaerophilales.id.1591	rs6442436	C	T	-0.152	0.029	2.03E-07	5767
order.Gastranaerophilales.id.1591	rs9864035	G	A	-0.153	0.029	1.82E-07	5766
order.Bifidobacteriales.id.432	rs872151	C	T	0.096	0.019	1.81E-07	14915
order.Bifidobacteriales.id.432	rs1519525	C	T	0.066	0.013	1.72E-07	14915
order.Bifidobacteriales.id.432	rs1961273	T	C	0.069	0.013	1.70E-07	14915
order.Bifidobacteriales.id.432	rs3739022	G	A	0.098	0.019	1.66E-07	14915
order.Bifidobacteriales.id.432	rs10928554	C	T	0.100	0.018	1.56E-07	14795
order.Bifidobacteriales.id.432	rs6733547	G	T	0.087	0.017	1.45E-07	14915
order.Gastranaerophilales.id.1591	rs13062781	G	A	-0.146	0.028	1.44E-07	5765
order.Bifidobacteriales.id.432	rs4954388	T	C	0.068	0.013	1.43E-07	14911
order.Bifidobacteriales.id.432	rs10171677	G	A	0.062	0.012	1.40E-07	14795
order.Bifidobacteriales.id.432	rs62168846	G	A	0.105	0.020	1.38E-07	14912
order.Gastranaerophilales.id.1591	rs6773199	G	A	-0.150	0.029	1.37E-07	5766
order.Bifidobacteriales.id.432	rs4954578	T	C	0.067	0.013	1.37E-07	14915
order.Bifidobacteriales.id.432	rs62168843	T	C	0.104	0.019	1.20E-07	14912
order.Bacillales.id.1674	rs74887130	G	C	-0.192	0.036	1.16E-07	3218

order.Bifidobacteriales.id.432	rs16833335	G	A	0.067	0.013	1.13E-07	14915
order.Erysipelotrichales.id.2148	rs62504403	T	C	0.068	0.013	1.12E-07	16981
order.Bifidobacteriales.id.432	rs62168847	T	C	0.105	0.019	1.08E-07	14912
order.Bifidobacteriales.id.432	rs1964776	C	T	0.067	0.013	9.83E-08	14915
order.Bifidobacteriales.id.432	rs4954397	A	G	0.068	0.013	9.39E-08	14915
order.Bifidobacteriales.id.432	rs12473760	C	A	0.067	0.013	9.33E-08	14915
order.Bifidobacteriales.id.432	rs4954445	T	A	0.101	0.019	9.27E-08	14915
order.Bifidobacteriales.id.432	rs3769011	A	T	0.101	0.019	9.05E-08	14915
order.Bifidobacteriales.id.432	rs4954577	A	G	0.068	0.013	8.89E-08	14915
order.Bifidobacteriales.id.432	rs1123848	C	T	0.068	0.013	8.89E-08	14913
order.Gastranaerophilales.id.1591	rs900188	A	G	-0.158	0.029	8.47E-08	5767
order.Bifidobacteriales.id.432	rs1942055	G	C	0.064	0.012	8.32E-08	14911
order.Bifidobacteriales.id.432	rs7609188	G	C	0.113	0.022	8.16E-08	12287
order.Bifidobacteriales.id.432	rs61470941	T	C	0.100	0.019	8.01E-08	14915
order.Bifidobacteriales.id.432	rs74697610	A	T	0.112	0.021	7.76E-08	14688
order.Gastranaerophilales.id.1591	rs2005426	C	A	-0.159	0.029	7.70E-08	5764
order.Bifidobacteriales.id.432	rs35215526	G	A	0.107	0.020	7.28E-08	14912
order.Bifidobacteriales.id.432	rs2056297	G	T	0.068	0.013	7.24E-08	14915
order.Bifidobacteriales.id.432	rs2322812	A	G	0.102	0.019	7.07E-08	14915
order.Bifidobacteriales.id.432	rs58080116	A	G	0.102	0.019	6.55E-08	14915
order.Bifidobacteriales.id.432	rs16831994	T	C	0.114	0.022	6.36E-08	12287
order.Bifidobacteriales.id.432	rs13010498	G	C	-0.069	0.013	6.09E-08	14795
order.Bifidobacteriales.id.432	rs2102896	T	C	0.068	0.013	5.88E-08	14915
order.Bifidobacteriales.id.432	rs953387	A	C	0.068	0.013	5.67E-08	14915
order.Bifidobacteriales.id.432	rs74266324	G	A	0.082	0.015	5.45E-08	14795
order.Bifidobacteriales.id.432	rs4954572	G	T	0.069	0.013	5.44E-08	14915
order.Bifidobacteriales.id.432	rs2874874	A	C	0.103	0.019	5.28E-08	14915
order.Bifidobacteriales.id.432	rs4954396	A	C	0.069	0.013	5.27E-08	14915
order.Gastranaerophilales.id.1591	rs9830438	A	C	-0.160	0.029	5.27E-08	5768
order.Bifidobacteriales.id.432	rs7564577	C	T	0.089	0.017	5.26E-08	14913
order.Bifidobacteriales.id.432	rs10803550	C	T	0.068	0.013	5.22E-08	14915

order.Bifidobacteriales.id.432	rs1807356	T	C	0.092	0.017	4.88E-08	14915
order.Gastranaerophilales.id.1591	rs9864379	C	T	-0.161	0.029	4.66E-08	5768
order.Bifidobacteriales.id.432	rs4954564	A	G	0.069	0.013	4.58E-08	14914
order.Bifidobacteriales.id.432	rs4954566	C	T	0.069	0.013	4.15E-08	14915
order.Bifidobacteriales.id.432	rs6729961	T	G	0.118	0.022	4.11E-08	12287
order.Bifidobacteriales.id.432	rs6707289	A	G	0.118	0.022	4.10E-08	12287
order.Bifidobacteriales.id.432	rs6720497	G	A	0.118	0.022	4.10E-08	12287
order.Bifidobacteriales.id.432	rs72970286	T	G	0.115	0.021	3.92E-08	12286
order.Bifidobacteriales.id.432	rs950176	A	G	0.070	0.013	3.52E-08	14914
order.Bifidobacteriales.id.432	rs60376570	G	A	0.104	0.019	3.46E-08	14915
order.Bifidobacteriales.id.432	rs12616955	C	T	0.069	0.013	3.45E-08	14915
order.Bifidobacteriales.id.432	rs4954392	A	G	0.070	0.013	3.21E-08	14915
order.Bifidobacteriales.id.432	rs56211644	T	C	0.105	0.019	3.18E-08	14915
order.Bifidobacteriales.id.432	rs6715785	G	A	0.070	0.013	3.00E-08	14915
order.Bifidobacteriales.id.432	rs4954569	C	T	0.070	0.013	2.86E-08	14915
order.Bifidobacteriales.id.432	rs62170081	A	G	0.119	0.022	2.78E-08	12287
order.Bifidobacteriales.id.432	rs10928513	C	T	0.066	0.012	2.74E-08	14914
order.Bifidobacteriales.id.432	rs72972104	G	A	0.116	0.022	2.73E-08	12287
order.Bifidobacteriales.id.432	rs4954570	G	C	0.074	0.013	2.61E-08	14913
order.Bifidobacteriales.id.432	rs13008147	A	G	-0.071	0.013	2.50E-08	13923
order.Bifidobacteriales.id.432	rs57543738	T	C	0.106	0.019	2.16E-08	14915
order.Bifidobacteriales.id.432	rs6430580	A	G	0.096	0.017	1.96E-08	14915
order.Bifidobacteriales.id.432	rs2874834	A	G	0.077	0.013	1.94E-08	14915
order.Bifidobacteriales.id.432	rs584226	T	C	0.101	0.018	1.91E-08	14915
order.Bifidobacteriales.id.432	rs1900741	C	T	0.083	0.014	1.91E-08	14915
order.Bifidobacteriales.id.432	rs56982689	C	T	0.118	0.022	1.78E-08	12287
order.Bifidobacteriales.id.432	rs78141345	G	A	0.107	0.019	1.77E-08	14915
order.Bifidobacteriales.id.432	rs7322849	C	T	0.111	0.020	1.74E-08	14915
order.Bifidobacteriales.id.432	rs9941547	G	A	0.071	0.013	1.72E-08	14808
order.Bifidobacteriales.id.432	rs4954633	C	T	0.118	0.022	1.67E-08	12287
order.Bifidobacteriales.id.432	rs4954568	T	A	0.071	0.013	1.51E-08	14915

order.Bifidobacteriales.id.432	rs16855656	A	G	0.099	0.017	1.42E-08	14915
order.Bifidobacteriales.id.432	rs4954430	C	T	0.120	0.022	1.37E-08	12286
order.Bifidobacteriales.id.432	rs55634455	T	C	0.108	0.019	1.32E-08	14915
order.Bifidobacteriales.id.432	rs1401687	G	C	0.072	0.013	1.31E-08	14915
order.Bifidobacteriales.id.432	rs10179271	T	C	0.072	0.013	1.16E-08	14915
order.Bifidobacteriales.id.432	rs7565871	G	C	0.091	0.017	1.13E-08	14914
order.Bifidobacteriales.id.432	rs10496736	C	G	0.122	0.022	1.09E-08	12287
order.Bifidobacteriales.id.432	rs60433564	A	C	0.123	0.022	1.05E-08	12287
order.Bifidobacteriales.id.432	rs7565053	A	T	0.128	0.023	1.04E-08	12187
order.Bifidobacteriales.id.432	rs12478902	T	C	0.103	0.018	9.81E-09	14914
order.Bifidobacteriales.id.432	rs4954567	G	T	0.072	0.013	9.64E-09	14915
order.Bifidobacteriales.id.432	rs3754692	T	C	0.079	0.013	9.24E-09	14915
order.Bifidobacteriales.id.432	rs12233092	G	A	0.102	0.018	8.26E-09	14912
order.Bifidobacteriales.id.432	rs6745996	A	G	0.099	0.017	8.06E-09	14915
order.Bifidobacteriales.id.432	rs3754690	C	T	0.110	0.019	8.00E-09	14915
order.Bifidobacteriales.id.432	rs2164331	C	T	0.106	0.018	7.53E-09	14915
order.Bifidobacteriales.id.432	rs998451	A	G	0.068	0.012	7.44E-09	14915
order.Bifidobacteriales.id.432	rs6739713	A	G	0.079	0.013	7.39E-09	14915
order.Bifidobacteriales.id.432	rs16832200	T	C	0.102	0.018	6.78E-09	14915
order.Bifidobacteriales.id.432	rs6430593	G	A	0.103	0.018	6.67E-09	14915
order.Bifidobacteriales.id.432	rs7371606	A	G	0.075	0.013	6.42E-09	14795
order.Bifidobacteriales.id.432	rs309132	C	G	0.107	0.018	5.94E-09	14915
order.Bifidobacteriales.id.432	rs6752519	C	T	0.107	0.018	4.92E-09	14915
order.Bifidobacteriales.id.432	rs6727889	C	T	0.096	0.017	4.85E-09	14915
order.Bifidobacteriales.id.432	rs925966	G	C	0.076	0.013	4.52E-09	14795
order.Bifidobacteriales.id.432	rs2322725	T	C	0.103	0.018	4.38E-09	14915
order.Bifidobacteriales.id.432	rs6705610	T	G	0.093	0.017	4.25E-09	14915
order.Bifidobacteriales.id.432	rs2322445	T	A	0.093	0.017	4.22E-09	14915
order.Bifidobacteriales.id.432	rs7594509	G	T	0.093	0.017	4.01E-09	14915
order.Bifidobacteriales.id.432	rs56067372	C	T	0.109	0.018	3.81E-09	14915
order.Bifidobacteriales.id.432	rs11897217	C	T	0.094	0.017	3.48E-09	14915

order.Bifidobacteriales.id.432	rs2278544	G	A	0.082	0.014	3.42E-09	14915
order.Bifidobacteriales.id.432	rs2164332	G	C	0.104	0.018	3.03E-09	14915
order.Bifidobacteriales.id.432	rs3806502	C	T	0.096	0.017	2.90E-09	14915
order.Bifidobacteriales.id.432	rs16832138	G	A	0.110	0.018	2.83E-09	14915
order.Bifidobacteriales.id.432	rs3820794	T	C	0.083	0.014	2.82E-09	14915
order.Bifidobacteriales.id.432	rs7608980	G	A	0.110	0.018	2.78E-09	14915
order.Bifidobacteriales.id.432	rs7605229	C	T	0.097	0.017	2.77E-09	14915
order.Bifidobacteriales.id.432	rs56369660	A	G	0.096	0.017	2.64E-09	14915
order.Bifidobacteriales.id.432	rs16832156	G	A	0.106	0.018	2.47E-09	14914
order.Bifidobacteriales.id.432	rs11889843	G	A	0.096	0.017	2.45E-09	14915
order.Bifidobacteriales.id.432	rs4954242	A	G	0.098	0.017	2.41E-09	14915
order.Bifidobacteriales.id.432	rs56263017	T	C	0.110	0.018	2.38E-09	14915
order.Bifidobacteriales.id.432	rs11900832	C	T	0.097	0.017	2.27E-09	14915
order.Bifidobacteriales.id.432	rs3769002	T	C	0.110	0.018	2.22E-09	14915
order.Bifidobacteriales.id.432	rs10928529	G	A	0.097	0.017	2.20E-09	14915
order.Bifidobacteriales.id.432	rs6742013	T	C	0.097	0.017	2.16E-09	14915
order.Bifidobacteriales.id.432	rs16832275	C	G	0.106	0.018	2.11E-09	14915
order.Bifidobacteriales.id.432	rs1030764	T	C	0.084	0.014	2.11E-09	14915
order.Bifidobacteriales.id.432	rs7563997	T	A	0.097	0.017	2.04E-09	14914
order.Bifidobacteriales.id.432	rs7597802	A	T	0.097	0.017	2.04E-09	14915
order.Bifidobacteriales.id.432	rs3213871	C	T	0.111	0.018	1.92E-09	14915
order.Bifidobacteriales.id.432	rs309126	T	C	0.105	0.017	1.84E-09	14915
order.Bifidobacteriales.id.432	rs2305248	A	G	0.096	0.017	1.82E-09	14915
order.Bifidobacteriales.id.432	rs17293519	A	G	0.096	0.017	1.72E-09	14915
order.Bifidobacteriales.id.432	rs3768998	G	T	0.109	0.018	1.71E-09	14914
order.Bifidobacteriales.id.432	rs6737635	G	T	0.098	0.017	1.65E-09	14915
order.Bifidobacteriales.id.432	rs4954213	G	T	0.097	0.017	1.58E-09	14915
order.Bifidobacteriales.id.432	rs6704561	C	T	0.079	0.013	1.57E-09	14795
order.Bifidobacteriales.id.432	rs6706466	A	G	0.096	0.017	1.54E-09	14915
order.Bifidobacteriales.id.432	rs4954513	G	A	0.112	0.018	1.50E-09	14915
order.Bifidobacteriales.id.432	rs13408096	G	T	0.098	0.017	1.37E-09	14915

order.Bifidobacteriales.id.432	rs6709763	C	A	0.098	0.017	1.36E-09	14915
order.Bifidobacteriales.id.432	rs10188066	A	G	0.084	0.014	1.35E-09	14915
order.Bifidobacteriales.id.432	rs12616520	T	A	0.084	0.014	1.34E-09	14915
order.Bifidobacteriales.id.432	rs6760329	G	A	0.085	0.014	1.21E-09	14915
order.Bifidobacteriales.id.432	rs4954221	G	A	0.097	0.017	1.19E-09	14915
order.Bifidobacteriales.id.432	rs61663334	A	G	0.096	0.017	1.18E-09	14914
order.Bifidobacteriales.id.432	rs4954226	T	C	0.099	0.017	1.17E-09	14915
order.Bifidobacteriales.id.432	rs2304599	G	C	0.085	0.014	1.12E-09	14915
order.Bifidobacteriales.id.432	rs6749119	C	G	0.097	0.017	1.10E-09	14915
order.Bifidobacteriales.id.432	rs11897204	T	C	0.097	0.017	1.10E-09	14915
order.Bifidobacteriales.id.432	rs9287442	G	A	0.085	0.014	1.05E-09	14915
order.Bifidobacteriales.id.432	rs11888521	G	C	0.097	0.017	1.02E-09	14914
order.Bifidobacteriales.id.432	rs6747073	T	C	0.081	0.013	9.76E-10	14913
order.Bifidobacteriales.id.432	rs16831264	G	C	0.099	0.017	9.62E-10	14915
order.Bifidobacteriales.id.432	rs62168934	A	G	0.099	0.017	9.43E-10	14915
order.Bifidobacteriales.id.432	rs11892750	G	A	0.100	0.017	9.41E-10	14915
order.Bifidobacteriales.id.432	rs16831498	G	C	0.100	0.017	9.40E-10	14915
order.Bifidobacteriales.id.432	rs13427494	G	A	0.100	0.017	9.35E-10	14915
order.Bifidobacteriales.id.432	rs13410870	G	A	0.098	0.017	8.43E-10	14915
order.Bifidobacteriales.id.432	rs10928545	G	A	0.086	0.014	8.21E-10	14915
order.Bifidobacteriales.id.432	rs60350840	A	G	0.100	0.017	8.18E-10	14915
order.Bifidobacteriales.id.432	rs10174944	C	T	0.099	0.017	8.15E-10	14915
order.Bifidobacteriales.id.432	rs6723108	G	T	0.073	0.012	7.70E-10	14915
order.Bifidobacteriales.id.432	rs4494812	A	G	0.098	0.017	7.34E-10	14914
order.Bifidobacteriales.id.432	rs10209482	A	C	0.100	0.017	7.31E-10	14915
order.Bifidobacteriales.id.432	rs11888951	T	C	0.100	0.017	7.06E-10	14915
order.Bifidobacteriales.id.432	rs7565149	T	A	0.100	0.017	6.78E-10	14915
order.Bifidobacteriales.id.432	rs56174523	A	C	0.100	0.017	6.61E-10	14915
order.Bifidobacteriales.id.432	rs13413872	G	T	0.100	0.017	6.60E-10	14915
order.Bifidobacteriales.id.432	rs4954212	A	G	0.100	0.017	6.59E-10	14914
order.Bifidobacteriales.id.432	rs6721838	A	G	0.099	0.017	6.53E-10	14915

order.Bifidobacteriales.id.432	rs4953946	T	G	0.100	0.017	6.49E-10	14915
order.Bifidobacteriales.id.432	rs57829242	A	G	0.101	0.017	6.48E-10	14915
order.Bifidobacteriales.id.432	rs6714750	A	G	0.084	0.013	6.28E-10	14795
order.Bifidobacteriales.id.432	rs7601683	C	T	0.100	0.017	6.26E-10	14915
order.Bifidobacteriales.id.432	rs6760553	A	G	0.100	0.017	6.22E-10	14915
order.Bifidobacteriales.id.432	rs2290518	G	A	0.099	0.017	6.07E-10	14915
order.Bifidobacteriales.id.432	rs10186594	A	G	0.100	0.017	6.00E-10	14915
order.Bifidobacteriales.id.432	rs11884903	T	C	0.101	0.017	5.72E-10	14915
order.Bifidobacteriales.id.432	rs1374329	A	G	0.085	0.013	5.57E-10	14915
order.Bifidobacteriales.id.432	rs13402112	A	C	0.100	0.017	5.56E-10	14915
order.Bifidobacteriales.id.432	rs4954214	C	T	0.100	0.017	5.48E-10	14915
order.Bifidobacteriales.id.432	rs11890844	A	G	0.101	0.017	5.28E-10	14915
order.Bifidobacteriales.id.432	rs1530559	A	G	0.074	0.012	5.23E-10	14795
order.Bifidobacteriales.id.432	rs13402101	T	A	0.101	0.017	5.19E-10	14915
order.Bifidobacteriales.id.432	rs13399376	A	G	0.101	0.017	5.19E-10	14915
order.Bifidobacteriales.id.432	rs7565268	T	C	0.101	0.017	5.02E-10	14915
order.Bifidobacteriales.id.432	rs10182750	T	C	0.101	0.017	4.99E-10	14915
order.Bifidobacteriales.id.432	rs13409400	A	C	0.101	0.017	4.93E-10	14915
order.Bifidobacteriales.id.432	rs58327215	G	C	0.099	0.017	4.92E-10	14915
order.Bifidobacteriales.id.432	rs2017831	C	T	0.101	0.017	4.80E-10	14915
order.Bifidobacteriales.id.432	rs4645053	T	A	0.099	0.017	4.77E-10	14914
order.Bifidobacteriales.id.432	rs6738563	G	T	0.073	0.012	4.67E-10	14911
order.Bifidobacteriales.id.432	rs62168941	C	T	0.101	0.017	4.64E-10	14915
order.Bifidobacteriales.id.432	rs7577258	G	A	0.101	0.017	4.61E-10	14915
order.Bifidobacteriales.id.432	rs4953947	A	C	0.101	0.017	4.52E-10	14915
order.Bifidobacteriales.id.432	rs7601696	C	A	0.101	0.017	4.52E-10	14915
order.Bifidobacteriales.id.432	rs6430561	C	T	0.100	0.017	4.49E-10	14915
order.Bifidobacteriales.id.432	rs6741481	A	G	0.100	0.017	4.46E-10	14915
order.Bifidobacteriales.id.432	rs7603805	A	G	0.100	0.017	4.43E-10	14915
order.Bifidobacteriales.id.432	rs4640444	T	C	0.099	0.017	4.39E-10	14914
order.Bifidobacteriales.id.432	rs921859	A	G	0.101	0.017	4.38E-10	14915

order.Bifidobacteriales.id.432	rs58426504	T	G	0.100	0.017	4.37E-10	14915
order.Bifidobacteriales.id.432	rs1551497	T	C	0.101	0.017	4.34E-10	14915
order.Bifidobacteriales.id.432	rs11898045	T	C	0.100	0.017	4.32E-10	14915
order.Bifidobacteriales.id.432	rs56903548	C	T	0.100	0.017	4.29E-10	14915
order.Bifidobacteriales.id.432	rs4954215	G	A	0.101	0.017	4.26E-10	14915
order.Bifidobacteriales.id.432	rs10167809	C	T	0.101	0.017	4.08E-10	14915
order.Bifidobacteriales.id.432	rs10167884	C	T	0.101	0.017	4.08E-10	14915
order.Bifidobacteriales.id.432	rs4953948	T	G	0.101	0.017	3.99E-10	14915
order.Bifidobacteriales.id.432	rs4954216	G	A	0.101	0.017	3.98E-10	14915
order.Bifidobacteriales.id.432	rs10167901	C	T	0.101	0.017	3.96E-10	14915
order.Bifidobacteriales.id.432	rs7422031	C	T	0.101	0.017	3.80E-10	14915
order.Bifidobacteriales.id.432	rs4954220	C	A	0.100	0.017	3.75E-10	14915
order.Bifidobacteriales.id.432	rs4954217	C	T	0.101	0.017	3.68E-10	14915
order.Bifidobacteriales.id.432	rs61087958	C	T	0.101	0.017	3.67E-10	14915
order.Bifidobacteriales.id.432	rs11903663	A	G	0.099	0.017	3.66E-10	14914
order.Bifidobacteriales.id.432	rs62168942	T	C	0.102	0.017	3.65E-10	14915
order.Bifidobacteriales.id.432	rs7573600	G	C	0.100	0.017	3.51E-10	14915
order.Bifidobacteriales.id.432	rs13389481	C	A	0.104	0.017	3.31E-10	14914
order.Bifidobacteriales.id.432	rs2016636	G	A	0.084	0.013	3.23E-10	14915
order.Bifidobacteriales.id.432	rs58697996	G	A	0.101	0.017	3.09E-10	14915
order.Bifidobacteriales.id.432	rs4953945	C	G	0.103	0.017	2.92E-10	14914
order.Bifidobacteriales.id.432	rs935613	C	T	0.084	0.013	2.63E-10	14915
order.Bifidobacteriales.id.432	rs4346445	A	C	0.102	0.017	2.30E-10	14914
order.Bifidobacteriales.id.432	rs10208624	C	T	0.101	0.017	2.26E-10	14915
order.Bifidobacteriales.id.432	rs7568525	G	A	0.102	0.017	2.11E-10	14915
order.Bifidobacteriales.id.432	rs2874739	C	T	0.103	0.017	1.71E-10	14915
order.Bifidobacteriales.id.432	rs10193348	A	G	0.103	0.017	1.70E-10	14915
order.Bifidobacteriales.id.432	rs1375132	A	G	0.085	0.013	1.49E-10	14913
order.Bifidobacteriales.id.432	rs12328663	T	C	0.103	0.017	1.19E-10	14915
order.Bifidobacteriales.id.432	rs1979033	G	A	0.075	0.012	1.05E-10	14911
order.Bifidobacteriales.id.432	rs2680880	T	A	0.080	0.012	9.86E-11	14915

order.Bifidobacteriales.id.432	rs10187402	C	G	0.086	0.013	9.54E-11	14910
order.Bifidobacteriales.id.432	rs62160860	G	C	0.116	0.018	7.86E-11	14912
order.Bifidobacteriales.id.432	rs1869829	A	G	0.086	0.013	6.87E-11	14915
order.Bifidobacteriales.id.432	rs12619365	C	T	0.088	0.013	5.99E-11	14915
order.Bifidobacteriales.id.432	rs13413639	C	A	0.088	0.013	5.78E-11	14915
order.Bifidobacteriales.id.432	rs11893318	T	C	0.115	0.018	5.47E-11	14914
order.Bifidobacteriales.id.432	rs2278683	A	C	0.115	0.018	5.39E-11	14914
order.Bifidobacteriales.id.432	rs7581382	T	C	-0.090	0.015	5.00E-11	13923
order.Bifidobacteriales.id.432	rs4954551	G	A	0.115	0.018	5.00E-11	14915
order.Bifidobacteriales.id.432	rs2322659	C	T	0.089	0.013	4.94E-11	14915
order.Bifidobacteriales.id.432	rs4954279	G	A	0.089	0.013	4.26E-11	14915
order.Bifidobacteriales.id.432	rs10192827	A	G	0.090	0.013	3.91E-11	14914
order.Bifidobacteriales.id.432	rs4954276	A	G	0.089	0.013	3.83E-11	14915
order.Bifidobacteriales.id.432	rs7608045	T	C	0.089	0.013	3.58E-11	14915
order.Bifidobacteriales.id.432	rs7587285	T	C	0.116	0.018	3.39E-11	14915
order.Bifidobacteriales.id.432	rs10928542	G	A	0.089	0.013	3.35E-11	14915
order.Bifidobacteriales.id.432	rs12469709	T	C	0.090	0.013	2.72E-11	14915
order.Bifidobacteriales.id.432	rs656326	A	C	0.090	0.013	2.34E-11	14915
order.Bifidobacteriales.id.432	rs6715856	T	C	0.090	0.013	2.26E-11	14915
order.Bifidobacteriales.id.432	rs6755383	C	T	0.090	0.013	2.25E-11	14915
order.Bifidobacteriales.id.432	rs11679508	T	A	0.090	0.013	2.21E-11	14915
order.Bifidobacteriales.id.432	rs10173394	T	C	0.091	0.013	2.21E-11	14915
order.Bifidobacteriales.id.432	rs12994270	A	T	0.091	0.013	2.13E-11	14915
order.Bifidobacteriales.id.432	rs313522	T	A	0.090	0.013	2.09E-11	14915
order.Bifidobacteriales.id.432	rs313523	G	A	0.090	0.013	2.08E-11	14915
order.Bifidobacteriales.id.432	rs932206	T	C	0.082	0.012	1.88E-11	14795
order.Bifidobacteriales.id.432	rs6720287	A	G	0.090	0.013	1.88E-11	14915
order.Bifidobacteriales.id.432	rs2034276	A	T	0.090	0.013	1.77E-11	14915
order.Bifidobacteriales.id.432	rs1446584	A	G	0.090	0.013	1.75E-11	14915
order.Bifidobacteriales.id.432	rs1470457	A	G	0.092	0.013	1.74E-11	14915
order.Bifidobacteriales.id.432	rs4954280	A	G	0.091	0.013	1.70E-11	14915

order.Bifidobacteriales.id.432	rs3213889	G	A	0.091	0.013	1.68E-11	14915
order.Bifidobacteriales.id.432	rs7355359	T	C	0.091	0.013	1.50E-11	14915
order.Bifidobacteriales.id.432	rs12998387	G	A	0.091	0.013	1.50E-11	14915
order.Bifidobacteriales.id.432	rs313517	A	G	0.091	0.013	1.38E-11	14915
order.Bifidobacteriales.id.432	rs313524	C	T	0.091	0.013	1.33E-11	14915
order.Bifidobacteriales.id.432	rs13412397	A	G	0.091	0.013	1.33E-11	14915
order.Bifidobacteriales.id.432	rs28453840	A	G	0.092	0.013	1.24E-11	14915
order.Bifidobacteriales.id.432	rs10195620	T	A	0.092	0.013	1.21E-11	14915
order.Bifidobacteriales.id.432	rs1438304	G	A	0.092	0.013	1.18E-11	14915
order.Bifidobacteriales.id.432	rs10928546	T	C	0.092	0.013	1.18E-11	14915
order.Bifidobacteriales.id.432	rs1438307	T	G	0.092	0.013	1.16E-11	14915
order.Bifidobacteriales.id.432	rs313526	C	T	0.091	0.013	1.09E-11	14915
order.Bifidobacteriales.id.432	rs12998016	T	C	0.092	0.013	1.05E-11	14915
order.Bifidobacteriales.id.432	rs313528	G	A	0.091	0.013	1.04E-11	14915
order.Bifidobacteriales.id.432	rs313518	C	T	0.092	0.013	1.03E-11	14915
order.Bifidobacteriales.id.432	rs11684545	T	G	0.092	0.013	1.02E-11	14915
order.Bifidobacteriales.id.432	rs11679933	T	G	0.087	0.013	1.00E-11	14911
order.Bifidobacteriales.id.432	rs10202489	A	G	0.092	0.013	9.56E-12	14915
order.Bifidobacteriales.id.432	rs71348714	A	G	0.092	0.013	9.53E-12	14915
order.Bifidobacteriales.id.432	rs1438305	G	C	0.092	0.013	9.19E-12	14915
order.Bifidobacteriales.id.432	rs6430589	C	G	0.092	0.013	9.08E-12	14914
order.Bifidobacteriales.id.432	rs71348715	T	G	0.092	0.013	8.94E-12	14915
order.Bifidobacteriales.id.432	rs1011361	A	G	0.092	0.013	8.86E-12	14915
order.Bifidobacteriales.id.432	rs313519	A	C	0.092	0.013	8.33E-12	14915
order.Bifidobacteriales.id.432	rs2082729	T	C	0.093	0.013	6.59E-12	14915
order.Bifidobacteriales.id.432	rs11693502	T	C	0.088	0.013	4.47E-12	14914
order.Bifidobacteriales.id.432	rs3739020	T	G	0.095	0.013	3.46E-12	14912
order.Bifidobacteriales.id.432	rs17261772	T	C	0.095	0.013	1.55E-12	14795
order.Bifidobacteriales.id.432	rs748841	T	C	0.094	0.013	1.26E-12	14915
order.Bifidobacteriales.id.432	rs2011946	A	C	0.090	0.013	1.21E-12	14911
order.Bifidobacteriales.id.432	rs2164210	C	T	0.094	0.013	1.14E-12	14915

order.Bifidobacteriales.id.432	rs6742283	G	A	0.095	0.013	1.13E-12	14913
order.Bifidobacteriales.id.432	rs2322660	T	C	0.095	0.013	9.97E-13	14915
order.Bifidobacteriales.id.432	rs12988076	A	C	0.095	0.013	8.81E-13	14915
order.Bifidobacteriales.id.432	rs749873	T	C	0.090	0.012	8.79E-13	14915
order.Bifidobacteriales.id.432	rs892715	C	T	0.095	0.013	7.89E-13	14915
order.Bifidobacteriales.id.432	rs6719488	T	G	0.096	0.013	6.53E-13	14915
order.Bifidobacteriales.id.432	rs745500	A	G	0.096	0.013	6.29E-13	14915
order.Bifidobacteriales.id.432	rs12475139	T	A	0.094	0.013	5.51E-13	14795
order.Bifidobacteriales.id.432	rs3769005	G	C	0.096	0.013	5.29E-13	14915
order.Bifidobacteriales.id.432	rs3754686	C	T	0.097	0.013	2.82E-13	14915
order.Bifidobacteriales.id.432	rs12620033	G	C	0.098	0.013	1.68E-13	14915
order.Bifidobacteriales.id.432	rs2236783	A	G	0.099	0.013	1.15E-13	14915
order.Bifidobacteriales.id.432	rs11681248	T	C	0.094	0.012	9.61E-14	14910
order.Bifidobacteriales.id.432	rs4954490	A	G	0.100	0.013	5.25E-14	14911
order.Bifidobacteriales.id.432	rs309137	T	C	0.099	0.013	5.22E-14	14915
order.Bifidobacteriales.id.432	rs4988183	T	C	0.102	0.013	5.12E-14	14915
order.Bifidobacteriales.id.432	rs309149	C	T	0.101	0.013	4.39E-14	14915
order.Bifidobacteriales.id.432	rs6716536	C	T	0.098	0.013	3.56E-14	14795
order.Bifidobacteriales.id.432	rs309164	T	C	0.103	0.013	1.74E-14	14915
order.Bifidobacteriales.id.432	rs1561277	C	A	0.100	0.013	1.28E-14	14795
order.Bifidobacteriales.id.432	rs309125	C	T	0.103	0.013	6.64E-15	14915
order.Bifidobacteriales.id.432	rs12615624	A	G	0.105	0.013	4.78E-15	14915
order.Bifidobacteriales.id.432	rs6759321	G	T	0.101	0.013	4.00E-15	14795
order.Bifidobacteriales.id.432	rs632632	T	C	0.105	0.013	2.42E-15	14915
order.Bifidobacteriales.id.432	rs309180	A	G	0.105	0.013	1.36E-15	14915
order.Bifidobacteriales.id.432	rs309134	G	A	0.107	0.013	1.35E-15	14915
order.Bifidobacteriales.id.432	rs218174	A	G	0.107	0.013	7.25E-16	14914
order.Bifidobacteriales.id.432	rs309168	C	T	0.107	0.013	5.10E-16	14915
order.Bifidobacteriales.id.432	rs309160	C	T	0.108	0.013	3.14E-16	14915
order.Bifidobacteriales.id.432	rs13023281	T	C	-0.106	0.013	1.12E-16	13923
order.Bifidobacteriales.id.432	rs13404551	T	C	0.110	0.013	7.02E-17	14913

order.Bifidobacteriales.id.432	rs687670	T	C	0.111	0.013	2.49E-17	14915
order.Bifidobacteriales.id.432	rs12465802	G	A	0.110	0.013	6.15E-18	14915
order.Bifidobacteriales.id.432	rs1446585	A	G	0.112	0.013	4.82E-18	14795
order.Bifidobacteriales.id.432	rs6730157	A	G	0.109	0.013	4.20E-18	14915
order.Bifidobacteriales.id.432	rs1375131	T	C	0.110	0.013	3.94E-18	14914
order.Bifidobacteriales.id.432	rs36084664	A	G	-0.113	0.014	1.45E-18	13923
order.Bifidobacteriales.id.432	rs6754311	T	C	0.113	0.013	8.77E-19	14914
order.Bifidobacteriales.id.432	rs7570971	C	A	0.113	0.013	2.53E-19	14795
order.Bifidobacteriales.id.432	rs4988235	A	G	0.116	0.013	1.30E-19	14915
order.Bifidobacteriales.id.432	rs182549	T	C	0.117	0.013	5.94E-20	14915
family.Alcaligenaceae.id.2875	rs2320924	T	C	-0.049	0.011	9.99E-06	16810
family.Actinomycetaceae.id.421	rs35110659	G	T	0.076	0.017	9.97E-06	7666
family.Defluviitaleaceae.id.1924	rs2189340	G	A	-0.107	0.024	9.96E-06	8029
family.FamilyXIII.id.1957	rs35924848	A	C	-0.065	0.015	9.95E-06	16641
family.Bifidobacteriaceae.id.433	rs10831953	A	G	0.054	0.012	9.95E-06	14915
family.Rhodospirillaceae.id.2717	rs6679026	C	T	0.112	0.025	9.95E-06	8497
family.FamilyXIII.id.1957	rs36068795	C	T	-0.059	0.014	9.95E-06	16643
family.Christensenellaceae.id.1866	rs7211194	T	C	0.049	0.011	9.94E-06	16436
family.Pasteurellaceae.id.3689	rs8125536	C	T	-0.066	0.015	9.93E-06	9368
family.Alcaligenaceae.id.2875	rs4354244	C	T	-0.056	0.013	9.92E-06	16810
family.ClostridialesvadinBB60group.id.11286	rs7211063	C	T	0.135	0.030	9.90E-06	9703
family.Desulfovibrionaceae.id.3169	rs7162535	T	C	-0.057	0.013	9.89E-06	15142
family.BacteroidalesS24.7group.id.11173	rs56733378	C	T	0.121	0.027	9.89E-06	7577
family.ClostridialesvadinBB60group.id.11286	rs276172	A	G	0.062	0.014	9.88E-06	10509
family.Bifidobacteriaceae.id.433	rs11674937	G	C	0.060	0.014	9.88E-06	14915
family.BacteroidalesS24.7group.id.11173	rs17281048	A	G	0.077	0.017	9.88E-06	7950
family.Christensenellaceae.id.1866	rs6471946	G	A	0.048	0.011	9.87E-06	16838
family.FamilyXIII.id.1957	rs36049157	G	C	-0.059	0.014	9.86E-06	16643
family.Christensenellaceae.id.1866	rs7343112	C	T	0.048	0.011	9.84E-06	16847
family.Verrucomicrobiaceae.id.4036	rs10005131	T	G	0.061	0.014	9.83E-06	11865
family.Bifidobacteriaceae.id.433	rs4954189	G	A	0.052	0.012	9.83E-06	14915

family.Defluviitaleaceae.id.1924	rs2102251	G	A	-0.104	0.022	9.83E-06	8200
family.Methanobacteriaceae.id.121	rs73248946	A	G	-0.222	0.049	9.83E-06	3203
family.BacteroidalesS24.7group.id.11173	rs28410286	A	G	0.077	0.017	9.82E-06	7950
family.Prevotellaceae.id.960	rs2278541	C	T	0.055	0.012	9.80E-06	14847
family.Alcaligenaceae.id.2875	rs2906622	T	C	-0.049	0.011	9.79E-06	16803
family.Rhodospirillaceae.id.2717	rs12518525	A	G	-0.110	0.025	9.78E-06	8481
family.BacteroidalesS24.7group.id.11173	rs11135367	T	C	0.084	0.018	9.78E-06	7952
family.Rhodospirillaceae.id.2717	rs2095588	T	C	0.070	0.016	9.78E-06	8501
family.FamilyXIII.id.1957	rs7677453	G	C	-0.058	0.013	9.78E-06	16737
family.Coriobacteriaceae.id.811	rs1397793	A	G	-0.050	0.011	9.77E-06	17527
family.ClostridialesvadinBB60group.id.11286	rs9914051	G	A	0.135	0.030	9.77E-06	9703
family.Streptococcaceae.id.1850	rs4261605	C	T	-0.049	0.011	9.75E-06	16627
family.FamilyXIII.id.1957	rs36010286	C	T	-0.059	0.014	9.73E-06	16643
family.Methanobacteriaceae.id.121	rs10501707	A	G	0.110	0.025	9.72E-06	3698
family.Coriobacteriaceae.id.811	rs45480394	G	T	-0.050	0.011	9.71E-06	17413
family.Defluviitaleaceae.id.1924	rs2357087	T	C	-0.104	0.023	9.71E-06	8196
family.Porphyromonadaceae.id.943	rs1003404	C	T	0.064	0.015	9.70E-06	18026
family.Oxalobacteraceae.id.2966	rs79967238	G	A	-0.184	0.042	9.70E-06	4672
family.Porphyromonadaceae.id.943	rs28868966	C	T	-0.053	0.012	9.69E-06	18026
family.FamilyXIII.id.1957	rs6675578	G	A	-0.063	0.014	9.69E-06	16737
family.Bifidobacteriaceae.id.433	rs10221893	T	C	0.054	0.012	9.68E-06	14915
family.Clostridiaceae1.id.1869	rs6784441	T	C	-0.061	0.014	9.67E-06	14253
family.Rhodospirillaceae.id.2717	rs28406547	C	T	0.104	0.024	9.66E-06	8501
family.FamilyXIII.id.1957	rs1887048	A	G	0.058	0.013	9.65E-06	16717
family.Lactobacillaceae.id.1836	rs1530559	A	G	0.077	0.018	9.65E-06	6750
family.Prevotellaceae.id.960	rs3805025	A	G	-0.065	0.015	9.65E-06	14871
family.Rhodospirillaceae.id.2717	rs71481160	C	T	0.070	0.016	9.64E-06	8485
family.Rhodospirillaceae.id.2717	rs1923415	G	A	-0.100	0.023	9.64E-06	8501
family.Erysipelotrichaceae.id.2149	rs2638904	A	G	0.047	0.011	9.64E-06	18215
family.Streptococcaceae.id.1850	rs28510567	A	G	-0.049	0.011	9.63E-06	16623
family.Veillonellaceae.id.2172	rs11633014	C	T	-0.053	0.012	9.62E-06	15976

family.Verrucomicrobiaceae.id.4036	rs2865331	G	A	0.062	0.014	9.62E-06	11864
family.Coriobacteriaceae.id.811	rs7540303	T	C	0.048	0.011	9.62E-06	17691
family.Victivallaceae.id.2255	rs17021086	T	C	-0.175	0.042	9.62E-06	3917
family.Desulfovibrionaceae.id.3169	rs72647048	C	T	-0.077	0.017	9.61E-06	15142
family.Veillonellaceae.id.2172	rs11166707	G	C	0.050	0.011	9.61E-06	15969
family.Ruminococcaceae.id.2050	rs76724913	G	T	0.090	0.020	9.60E-06	17516
family.Victivallaceae.id.2255	rs7860510	C	G	0.165	0.038	9.60E-06	3912
family.Bacteroidaceae.id.917	rs1340392	G	A	-0.058	0.013	9.60E-06	18302
family.Bifidobacteriaceae.id.433	rs4954274	G	A	0.089	0.020	9.60E-06	14915
family.Porphyromonadaceae.id.943	rs864093	C	A	-0.053	0.012	9.60E-06	18027
family.Ruminococcaceae.id.2050	rs2086165	C	T	0.154	0.036	9.60E-06	4140
family.FamilyXIII.id.1957	rs34402008	A	G	-0.059	0.013	9.59E-06	16737
family.Porphyromonadaceae.id.943	rs7788868	G	A	0.076	0.017	9.58E-06	18028
family.Verrucomicrobiaceae.id.4036	rs941682	A	G	-0.063	0.014	9.58E-06	11809
family.Lachnospiraceae.id.1987	rs11841382	T	G	-0.072	0.017	9.58E-06	18340
family.FamilyXIII.id.1957	rs62326988	T	A	-0.059	0.014	9.57E-06	16643
family.Methanobacteriaceae.id.121	rs10830292	T	G	0.110	0.025	9.56E-06	3698
family.Alcaligenaceae.id.2875	rs2320923	G	A	-0.049	0.011	9.56E-06	16810
family.Verrucomicrobiaceae.id.4036	rs1988252	G	A	0.062	0.014	9.56E-06	11864
family.Rhodospirillaceae.id.2717	rs78250451	T	A	-0.085	0.020	9.55E-06	8492
family.ClostridialesvadinBB60group.id.11286	rs150027448	G	A	0.114	0.026	9.54E-06	10511
family.Bifidobacteriaceae.id.433	rs13424016	G	A	0.053	0.012	9.54E-06	14914
family.Erysipelotrichaceae.id.2149	rs8096144	C	G	-0.086	0.019	9.53E-06	17405
family.Lactobacillaceae.id.1836	rs7832262	G	A	-0.076	0.017	9.53E-06	7059
family.Clostridiaceae1.id.1869	rs12123735	C	T	-0.053	0.012	9.53E-06	14253
family.Erysipelotrichaceae.id.2149	rs1884466	T	C	-0.048	0.011	9.53E-06	18205
family.Porphyromonadaceae.id.943	rs2137102	G	C	0.054	0.012	9.52E-06	18020
family.Streptococcaceae.id.1850	rs73195303	C	T	-0.058	0.013	9.52E-06	16610
family.unknownfamily.id.1000005471	rs12046539	T	C	-0.069	0.016	9.52E-06	9973
family.Coriobacteriaceae.id.811	rs62448870	A	G	-0.048	0.011	9.50E-06	17527
family.Bifidobacteriaceae.id.433	rs4988163	G	T	0.071	0.016	9.50E-06	14915

family.BacteroidalesS24.7group.id.11173	rs10872669	G	A	-0.123	0.028	9.49E-06	7368
family.Enterobacteriaceae.id.3469	rs4792380	T	A	0.116	0.026	9.49E-06	12763
family.Defluviitaleaceae.id.1924	rs540220	C	T	-0.124	0.029	9.48E-06	7887
family.Oxalobacteraceae.id.2966	rs56133825	T	C	-0.125	0.028	9.46E-06	4997
family.Pasteurellaceae.id.3689	rs731534	G	C	-0.099	0.022	9.46E-06	9115
family.Lactobacillaceae.id.1836	rs9345899	G	A	-0.124	0.028	9.45E-06	6602
family.Victivallaceae.id.2255	rs2731835	G	T	0.117	0.026	9.44E-06	3915
family.ClostridialesvadinBB60group.id.11286	rs7214077	G	A	0.134	0.029	9.44E-06	9703
family.Streptococcaceae.id.1850	rs11110077	C	G	-0.077	0.018	9.43E-06	15960
family.Enterobacteriaceae.id.3469	rs11026530	C	T	0.082	0.019	9.43E-06	13485
family.FamilyXI.id.1936	rs2156611	C	T	-0.112	0.025	9.43E-06	3155
family.FamilyXIII.id.1957	rs12186153	T	G	-0.059	0.014	9.42E-06	16643
family.Streptococcaceae.id.1850	rs28718126	G	A	0.109	0.025	9.41E-06	13529
family.Rikenellaceae.id.967	rs8132143	A	T	-0.047	0.011	9.41E-06	17680
family.ClostridialesvadinBB60group.id.11286	rs276175	C	A	0.062	0.014	9.38E-06	10512
family.FamilyXIII.id.1957	rs17374483	C	T	-0.059	0.014	9.36E-06	16643
family.FamilyXIII.id.1957	rs35404408	C	T	-0.059	0.014	9.36E-06	16643
family.Methanobacteriaceae.id.121	rs9532770	T	C	0.124	0.028	9.34E-06	3319
family.Rhodospirillaceae.id.2717	rs72714475	G	C	0.114	0.026	9.33E-06	8501
family.ClostridialesvadinBB60group.id.11286	rs6755871	G	C	-0.061	0.014	9.33E-06	10500
family.Methanobacteriaceae.id.121	rs4385899	C	T	0.110	0.025	9.33E-06	3698
family.Rhodospirillaceae.id.2717	rs6790948	T	C	-0.129	0.029	9.33E-06	8499
family.Streptococcaceae.id.1850	rs10111917	C	T	-0.073	0.016	9.32E-06	15959
family.Oxalobacteraceae.id.2966	rs79615800	C	T	-0.186	0.043	9.32E-06	4672
family.Enterobacteriaceae.id.3469	rs79757635	A	C	0.076	0.017	9.32E-06	13419
family.FamilyXI.id.1936	rs11547159	T	C	-0.165	0.036	9.32E-06	3155
family.Rikenellaceae.id.967	rs6744030	T	C	0.070	0.016	9.32E-06	17564
family.Alcaligenaceae.id.2875	rs9537817	A	C	-0.049	0.011	9.31E-06	16810
family.FamilyXIII.id.1957	rs6704304	G	A	-0.063	0.014	9.31E-06	16737
family.ClostridialesvadinBB60group.id.11286	rs740990	C	T	0.071	0.016	9.31E-06	10433
family.Ruminococcaceae.id.2050	rs499272	C	G	0.071	0.016	9.29E-06	17854

family.Clostridiaceae1.id.1869	rs7539216	A	G	-0.053	0.012	9.29E-06	14250
family.Bifidobacteriaceae.id.433	rs309154	C	T	0.072	0.016	9.29E-06	14915
family.Erysipelotrichaceae.id.2149	rs7826267	G	T	-0.084	0.020	9.28E-06	17586
family.Clostridiaceae1.id.1869	rs6934446	G	A	-0.072	0.017	9.28E-06	14237
family.Bifidobacteriaceae.id.433	rs2349959	A	T	0.056	0.013	9.28E-06	14915
family.Methanobacteriaceae.id.121	rs10424197	A	G	-0.111	0.025	9.28E-06	3698
family.Rhodospirillaceae.id.2717	rs12773098	T	C	0.070	0.016	9.27E-06	8501
family.Verrucomicrobiaceae.id.4036	rs12904881	G	A	0.058	0.013	9.27E-06	11865
family.Verrucomicrobiaceae.id.4036	rs28811282	G	A	0.062	0.014	9.27E-06	11864
family.Porphyromonadaceae.id.943	rs7045985	G	A	-0.060	0.014	9.27E-06	18026
family.FamilyXIII.id.1957	rs35190754	T	A	-0.059	0.014	9.26E-06	16643
family.FamilyXIII.id.1957	rs13147741	G	A	-0.059	0.014	9.26E-06	16643
family.FamilyXIII.id.1957	rs36018865	G	A	-0.059	0.014	9.26E-06	16643
family.Veillonellaceae.id.2172	rs11700976	A	C	0.050	0.011	9.25E-06	15971
family.Veillonellaceae.id.2172	rs1693340	C	T	0.082	0.018	9.25E-06	15058
family.Oxalobacteraceae.id.2966	rs7616207	G	A	0.097	0.022	9.25E-06	5166
family.Verrucomicrobiaceae.id.4036	rs28858161	T	C	0.062	0.014	9.24E-06	11864
family.Lactobacillaceae.id.1836	rs1529819	G	A	-0.076	0.017	9.23E-06	7058
family.Bifidobacteriaceae.id.433	rs68005421	G	C	0.055	0.012	9.22E-06	14795
family.ClostridialesvadinBB60group.id.11286	rs276167	A	G	0.062	0.014	9.21E-06	10509
family.unknownfamily.id.1000006161	rs267955	A	G	0.097	0.022	9.20E-06	5090
family.Rhodospirillaceae.id.2717	rs79569783	G	A	-0.099	0.023	9.19E-06	8467
family.Alcaligenaceae.id.2875	rs9537819	A	G	-0.049	0.011	9.19E-06	16810
family.Streptococcaceae.id.1850	rs239363	G	A	-0.049	0.011	9.19E-06	16614
family.Pasteurellaceae.id.3689	rs12050685	G	A	-0.067	0.015	9.19E-06	9411
family.Streptococcaceae.id.1850	rs28587507	C	G	-0.073	0.016	9.18E-06	15959
family.FamilyXI.id.1936	rs11021251	T	C	-0.129	0.029	9.18E-06	3155
family.Alcaligenaceae.id.2875	rs1344064	C	T	-0.049	0.011	9.18E-06	16810
family.Rhodospirillaceae.id.2717	rs13336560	T	C	-0.070	0.016	9.17E-06	8010
family.Erysipelotrichaceae.id.2149	rs12938302	C	T	-0.075	0.017	9.17E-06	18207
family.Acidaminococcaceae.id.2166	rs78702810	C	T	-0.144	0.032	9.16E-06	7992

family.Clostridiaceae1.id.1869	rs2038365	C	G	-0.053	0.012	9.15E-06	14252
family.Lachnospiraceae.id.1987	rs1205445	G	A	0.050	0.011	9.14E-06	17779
family.Actinomycetaceae.id.421	rs11055874	C	T	0.077	0.017	9.14E-06	7710
family.Rikenellaceae.id.967	rs61741563	G	A	-0.148	0.034	9.13E-06	8478
family.ClostridialesvadinBB60group.id.11286	rs2938236	C	A	0.114	0.026	9.13E-06	10511
family.Alcaligenaceae.id.2875	rs147968	T	C	0.049	0.011	9.13E-06	16810
family.Victivallaceae.id.2255	rs4764863	A	G	0.100	0.023	9.12E-06	3916
family.Oxalobacteraceae.id.2966	rs62341594	C	T	0.179	0.040	9.12E-06	4739
family.Alcaligenaceae.id.2875	rs6650396	A	G	-0.049	0.011	9.12E-06	16808
family.Prevotellaceae.id.960	rs11045908	G	A	-0.060	0.014	9.12E-06	14871
family.Actinomycetaceae.id.421	rs7133400	C	G	0.077	0.017	9.12E-06	7710
family.Peptostreptococcaceae.id.2042	rs3012501	C	G	0.058	0.014	9.11E-06	16061
family.ClostridialesvadinBB60group.id.11286	rs740646	A	G	0.124	0.027	9.11E-06	10198
family.ClostridialesvadinBB60group.id.11286	rs7215412	G	A	0.134	0.029	9.10E-06	9703
family.Victivallaceae.id.2255	rs60597389	A	G	0.138	0.030	9.10E-06	3904
family.Oxalobacteraceae.id.2966	rs17731697	T	C	-0.185	0.042	9.09E-06	4634
family.Oxalobacteraceae.id.2966	rs62304905	T	C	-0.185	0.042	9.09E-06	4634
family.Pasteurellaceae.id.3689	rs9895850	C	T	-0.176	0.041	9.08E-06	4737
family.FamilyXIII.id.1957	rs17301876	T	G	-0.059	0.013	9.08E-06	16737
family.Rhodospirillaceae.id.2717	rs1593368	T	C	-0.098	0.022	9.08E-06	8501
family.Clostridiaceae1.id.1869	rs62397761	G	A	0.062	0.014	9.08E-06	14248
family.FamilyXI.id.1936	rs576386	G	C	0.114	0.026	9.07E-06	3150
family.Desulfovibrionaceae.id.3169	rs7163129	T	C	-0.057	0.013	9.07E-06	15142
family.Lachnospiraceae.id.1987	rs11737564	A	G	-0.056	0.013	9.05E-06	18340
family.Oxalobacteraceae.id.2966	rs17788332	A	G	-0.185	0.042	9.05E-06	4634
family.Rhodospirillaceae.id.2717	rs12771420	A	T	0.070	0.016	9.05E-06	8501
family.Lachnospiraceae.id.1987	rs34072724	G	A	-0.047	0.011	9.04E-06	18338
family.Porphyromonadaceae.id.943	rs2667697	G	A	0.054	0.012	9.03E-06	18028
family.Coribacteriaceae.id.811	rs2442778	A	G	-0.116	0.026	9.03E-06	13472
family.Rhodospirillaceae.id.2717	rs11598665	G	A	0.104	0.024	9.02E-06	8501
family.Rhodospirillaceae.id.2717	rs17022723	T	C	-0.098	0.022	9.01E-06	8501

family.FamilyXIII.id.1957	rs13128396	C	G	-0.059	0.014	9.01E-06	16641
family.Prevotellaceae.id.960	rs11045907	A	T	-0.060	0.014	9.00E-06	14871
family.Methanobacteriaceae.id.121	rs11018664	G	A	0.110	0.025	9.00E-06	3698
family.Veillonellaceae.id.2172	rs2561115	C	A	-0.083	0.019	8.99E-06	15976
family.Alcaligenaceae.id.2875	rs8000825	G	A	-0.049	0.011	8.99E-06	16810
family.Prevotellaceae.id.960	rs12057990	T	C	0.059	0.013	8.97E-06	14867
family.unknownfamily.id.1000005471	rs10745352	C	T	-0.069	0.016	8.97E-06	9973
family.Bacteroidaceae.id.917	rs78280928	G	A	0.057	0.013	8.95E-06	18184
family.Oxalobacteraceae.id.2966	rs10868235	T	C	0.088	0.020	8.95E-06	5165
family.Alcaligenaceae.id.2875	rs67623980	C	T	-0.061	0.013	8.95E-06	16806
family.Bifidobacteriaceae.id.433	rs558520	T	C	0.071	0.016	8.95E-06	14915
family.Porphyromonadaceae.id.943	rs1980561	G	A	-0.049	0.011	8.95E-06	18028
family.Rikenellaceae.id.967	rs8132424	A	T	-0.047	0.011	8.94E-06	17680
family.Lachnospiraceae.id.1987	rs889344	C	G	-0.049	0.011	8.93E-06	18340
family.Streptococcaceae.id.1850	rs2533008	G	C	-0.049	0.011	8.91E-06	16623
family.Rhodospirillaceae.id.2717	rs61350907	T	A	-0.098	0.022	8.90E-06	8501
family.Oxalobacteraceae.id.2966	rs56097943	G	A	0.180	0.040	8.90E-06	4780
family.Rhodospirillaceae.id.2717	rs2162883	T	C	0.088	0.019	8.90E-06	8500
family.Alcaligenaceae.id.2875	rs2613606	T	C	-0.049	0.011	8.89E-06	16805
family.Rhodospirillaceae.id.2717	rs12771052	A	G	0.070	0.016	8.89E-06	8499
family.Lactobacillaceae.id.1836	rs820999	G	T	-0.076	0.017	8.89E-06	7058
family.FamilyXIII.id.1957	rs34495163	A	G	-0.059	0.014	8.88E-06	16643
family.Bifidobacteriaceae.id.433	rs189135960	C	T	0.093	0.020	8.88E-06	14915
family.Rikenellaceae.id.967	rs61424289	T	C	-0.087	0.020	8.88E-06	17679
family.Clostridiaceae1.id.1869	rs10804492	C	T	-0.061	0.014	8.87E-06	14253
family.Clostridiaceae1.id.1869	rs4908133	T	C	-0.053	0.012	8.87E-06	14251
family.Prevotellaceae.id.960	rs74999593	G	A	-0.075	0.017	8.86E-06	14769
family.Streptococcaceae.id.1850	rs11764382	G	A	-0.063	0.014	8.85E-06	16627
family.Alcaligenaceae.id.2875	rs7768419	A	G	0.126	0.028	8.85E-06	11659
family.Actinomycetaceae.id.421	rs12831981	T	G	0.077	0.017	8.84E-06	7710
family.Christensenellaceae.id.1866	rs77867022	T	G	-0.160	0.038	8.82E-06	4033

family.FamilyXIII.id.1957	rs10911961	A	G	-0.064	0.014	8.81E-06	16737
family.FamilyXIII.id.1957	rs13148852	A	G	-0.059	0.013	8.80E-06	16737
family.FamilyXIII.id.1957	rs11937660	T	A	-0.059	0.013	8.80E-06	16737
family.Bifidobacteriaceae.id.433	rs10496759	C	G	0.064	0.014	8.80E-06	14914
family.Rikenellaceae.id.967	rs9389714	T	C	-0.064	0.014	8.79E-06	17680
family.ClostridialesvadinBB60group.id.11286	rs7215860	G	A	0.136	0.030	8.79E-06	9690
family.Clostridiaceae1.id.1869	rs2123173	C	T	0.073	0.016	8.78E-06	14248
family.BacteroidalesS24.7group.id.11173	rs11135366	G	C	0.084	0.018	8.78E-06	7953
family.FamilyXIII.id.1957	rs34915491	G	T	-0.059	0.013	8.76E-06	16737
family.Bifidobacteriaceae.id.433	rs72717414	C	G	0.055	0.012	8.75E-06	14915
family.unknownfamily.id.1000005471	rs6695482	G	C	-0.069	0.016	8.75E-06	9973
family.Bifidobacteriaceae.id.433	rs61253125	T	C	0.071	0.016	8.75E-06	14915
family.Porphyromonadaceae.id.943	rs210602	G	C	0.063	0.014	8.72E-06	18028
family.Veillonellaceae.id.2172	rs4236917	G	C	-0.052	0.012	8.71E-06	15971
family.Pasteurellaceae.id.3689	rs73139353	C	A	-0.223	0.048	8.71E-06	4047
family.Bifidobacteriaceae.id.433	rs4954187	C	T	0.052	0.012	8.71E-06	14915
family.Rikenellaceae.id.967	rs7832304	G	T	-0.072	0.016	8.71E-06	16912
family.Streptococcaceae.id.1850	rs6563952	C	G	0.080	0.018	8.71E-06	16627
family.Porphyromonadaceae.id.943	rs10762312	A	G	-0.052	0.012	8.70E-06	18028
family.Methanobacteriaceae.id.121	rs41288287	C	T	0.199	0.044	8.70E-06	3501
family.Ruminococcaceae.id.2050	rs3009418	A	C	0.093	0.021	8.69E-06	16407
family.Coriobacteriaceae.id.811	rs60426889	G	T	-0.050	0.011	8.69E-06	17689
family.Oxalobacteraceae.id.2966	rs62304911	T	G	-0.185	0.042	8.68E-06	4672
family.Veillonellaceae.id.2172	rs6692542	G	A	0.053	0.012	8.68E-06	15976
family.Verrucomicrobiaceae.id.4036	rs72663802	C	T	0.064	0.015	8.67E-06	11865
family.Veillonellaceae.id.2172	rs2354569	T	C	-0.052	0.012	8.67E-06	15972
family.Methanobacteriaceae.id.121	rs3912664	G	T	0.110	0.025	8.67E-06	3698
family.BacteroidalesS24.7group.id.11173	rs28545668	G	C	0.078	0.017	8.66E-06	7950
family.Bifidobacteriaceae.id.433	rs55888705	G	A	0.054	0.012	8.66E-06	14914
family.Erysipelotrichaceae.id.2149	rs10134361	G	A	0.071	0.016	8.66E-06	18217
family.Defluviitaleaceae.id.1924	rs2102252	C	G	-0.105	0.022	8.66E-06	8200

family.Verrucomicrobiaceae.id.4036	rs36010840	C	T	0.063	0.014	8.64E-06	11864
family.Bifidobacteriaceae.id.433	rs11739543	G	A	0.055	0.012	8.63E-06	14915
family.FamilyXIII.id.1957	rs11490084	G	A	-0.059	0.014	8.63E-06	16641
family.Peptostreptococcaceae.id.2042	rs10904854	A	G	0.053	0.012	8.61E-06	16060
family.Ruminococcaceae.id.2050	rs1158100	G	A	-0.049	0.011	8.61E-06	18333
family.Prevotellaceae.id.960	rs10131942	G	C	0.070	0.016	8.61E-06	14871
family.Prevotellaceae.id.960	rs3758087	C	T	0.056	0.012	8.61E-06	14871
family.Rhodospirillaceae.id.2717	rs11945729	G	A	-0.099	0.022	8.61E-06	8501
family.Rikenellaceae.id.967	rs2450745	C	A	-0.079	0.018	8.61E-06	17680
family.Bifidobacteriaceae.id.433	rs115554641	C	G	0.055	0.012	8.60E-06	14915
family.Bacteroidaceae.id.917	rs79325005	A	G	0.057	0.013	8.58E-06	18187
family.Verrucomicrobiaceae.id.4036	rs736124	T	A	-0.074	0.017	8.58E-06	11593
family.Methanobacteriaceae.id.121	rs12303159	C	A	-0.223	0.049	8.56E-06	3203
family.Rhodospirillaceae.id.2717	rs72714479	G	A	0.113	0.026	8.56E-06	8501
family.Victivallaceae.id.2255	rs2241426	G	C	0.117	0.026	8.55E-06	3912
family.Pasteurellaceae.id.3689	rs77529231	T	C	-0.224	0.050	8.54E-06	3638
family.Enterobacteriaceae.id.3469	rs61973590	G	C	-0.061	0.013	8.54E-06	13570
family.Bifidobacteriaceae.id.433	rs12446429	C	T	0.081	0.019	8.53E-06	14008
family.Rikenellaceae.id.967	rs2297256	G	A	-0.048	0.011	8.52E-06	17680
family.Ruminococcaceae.id.2050	rs10166469	C	T	-0.053	0.012	8.52E-06	18314
family.Verrucomicrobiaceae.id.4036	rs4595371	A	G	0.063	0.014	8.52E-06	11864
family.Lactobacillaceae.id.1836	rs1434765	C	A	-0.076	0.017	8.52E-06	7058
family.FamilyXIII.id.1957	rs12409191	A	G	-0.064	0.014	8.52E-06	16737
family.Prevotellaceae.id.960	rs3805026	T	C	-0.065	0.014	8.52E-06	14870
family.FamilyXIII.id.1957	rs34319585	T	C	-0.060	0.014	8.51E-06	16643
family.FamilyXIII.id.1957	rs34246808	A	G	-0.060	0.014	8.51E-06	16643
family.Coribacteriaceae.id.811	rs12974142	A	G	0.079	0.018	8.51E-06	17413
family.Rikenellaceae.id.967	rs2150411	G	T	-0.048	0.011	8.51E-06	17680
family.Victivallaceae.id.2255	rs253719	G	A	0.118	0.026	8.50E-06	3917
family.Rikenellaceae.id.967	rs12584670	T	C	0.082	0.019	8.50E-06	17680
family.Verrucomicrobiaceae.id.4036	rs12024893	A	G	0.063	0.014	8.50E-06	11864

family.Erysipelotrichaceae.id.2149	rs10144017	G	A	0.069	0.016	8.50E-06	18217
family.FamilyXIII.id.1957	rs35248316	G	A	-0.059	0.013	8.49E-06	16734
family.Veillonellaceae.id.2172	rs9345168	A	C	0.051	0.011	8.49E-06	15976
family.Bifidobacteriaceae.id.433	rs80261410	T	C	0.062	0.014	8.48E-06	14795
family.Streptococcaceae.id.1850	rs239358	A	G	-0.050	0.011	8.48E-06	16610
family.Bifidobacteriaceae.id.433	rs2305165	A	C	0.093	0.020	8.48E-06	14915
family.Clostridiaceae1.id.1869	rs11166591	A	G	-0.054	0.012	8.47E-06	14253
family.Bacteroidaceae.id.917	rs17788984	A	G	0.075	0.017	8.47E-06	17291
family.Alcaligenaceae.id.2875	rs10203027	T	C	0.062	0.014	8.46E-06	16377
family.Bifidobacteriaceae.id.433	rs309162	T	A	0.071	0.016	8.46E-06	14915
family.Methanobacteriaceae.id.121	rs73068003	T	G	-0.158	0.035	8.45E-06	3692
family.Streptococcaceae.id.1850	rs4968647	T	C	-0.049	0.011	8.44E-06	16627
family.Prevothellaceae.id.960	rs2278540	A	G	0.055	0.012	8.44E-06	14847
family.Alcaligenaceae.id.2875	rs6118993	C	T	0.071	0.016	8.44E-06	15456
family.Bifidobacteriaceae.id.433	rs4954275	C	T	0.092	0.020	8.43E-06	14915
family.Rhodospirillaceae.id.2717	rs1414885	C	T	0.070	0.016	8.43E-06	8497
family.BacteroidalesS24.7group.id.11173	rs7217209	T	C	0.084	0.019	8.43E-06	7745
family.Streptococcaceae.id.1850	rs5012592	C	T	-0.090	0.019	8.42E-06	16549
family.Bifidobacteriaceae.id.433	rs7572152	C	G	0.081	0.019	8.42E-06	14816
family.Lachnospiraceae.id.1987	rs2910921	C	T	0.160	0.036	8.42E-06	6549
family.Bifidobacteriaceae.id.433	rs7561565	T	G	0.071	0.016	8.42E-06	14915
family.FamilyXI.id.1936	rs78222136	C	G	0.225	0.051	8.41E-06	3136
family.Streptococcaceae.id.1850	rs57226474	G	A	-0.049	0.011	8.41E-06	16623
family.Clostridiaceae1.id.1869	rs2156323	G	A	0.080	0.018	8.40E-06	14212
family.Prevothellaceae.id.960	rs2322142	C	T	-0.060	0.013	8.39E-06	14869
family.FamilyXIII.id.1957	rs4293737	G	A	-0.112	0.027	8.38E-06	5704
family.Pasteurellaceae.id.3689	rs6100166	G	C	0.067	0.015	8.38E-06	9115
family.Porphyromonadaceae.id.943	rs35961441	C	A	0.092	0.021	8.37E-06	16374
family.Lachnospiraceae.id.1987	rs13005175	G	A	0.099	0.022	8.37E-06	16893
family.Bifidobacteriaceae.id.433	rs4072434	G	C	0.055	0.012	8.36E-06	14915
family.Christensenellaceae.id.1866	rs4805124	G	C	0.049	0.011	8.36E-06	16847

family.Alcaligenaceae.id.2875	rs148149311	G	A	0.127	0.028	8.36E-06	11655
family.BacteroidalesS24.7group.id.11173	rs3920216	A	G	0.078	0.017	8.35E-06	7949
family.Rhodospirillaceae.id.2717	rs72714480	C	T	0.113	0.026	8.35E-06	8499
family.FamilyXIII.id.1957	rs35239169	T	C	-0.059	0.013	8.34E-06	16737
family.Streptococcaceae.id.1850	rs4865415	T	C	-0.089	0.019	8.33E-06	16556
family.Streptococcaceae.id.1850	rs17613967	T	G	-0.088	0.019	8.33E-06	16556
family.Bifidobacteriaceae.id.433	rs72717440	A	T	0.055	0.012	8.33E-06	14915
family.Bifidobacteriaceae.id.433	rs11688302	C	T	0.057	0.013	8.32E-06	14915
family.Bifidobacteriaceae.id.433	rs56784995	T	C	0.092	0.020	8.31E-06	14915
family.Lachnospiraceae.id.1987	rs140737552	C	T	0.055	0.013	8.30E-06	17525
family.Streptococcaceae.id.1850	rs4968776	G	A	0.050	0.011	8.30E-06	16198
family.Peptococcaceae.id.2024	rs11787651	G	A	0.129	0.029	8.29E-06	9921
family.Oxalobacteraceae.id.2966	rs62304912	G	A	-0.185	0.042	8.29E-06	4672
family.Christensenellaceae.id.1866	rs5752916	A	G	-0.066	0.015	8.29E-06	16183
family.Clostridiaceae1.id.1869	rs76185991	C	G	-0.061	0.014	8.28E-06	14253
family.Coriobacteriaceae.id.811	rs3025411	G	A	0.093	0.021	8.27E-06	15671
family.Defluviitaleaceae.id.1924	rs6840503	G	A	-0.103	0.022	8.27E-06	8002
family.Streptococcaceae.id.1850	rs6601426	G	C	-0.068	0.015	8.26E-06	16626
family.Streptococcaceae.id.1850	rs7916740	C	T	0.095	0.022	8.25E-06	15515
family.Clostridiaceae1.id.1869	rs56188186	G	A	0.097	0.022	8.24E-06	13218
family.FamilyXIII.id.1957	rs13143795	C	A	-0.059	0.014	8.24E-06	16643
family.BacteroidalesS24.7group.id.11173	rs1398206	G	A	0.078	0.017	8.24E-06	7949
family.ClostridialesvadinBB60group.id.11286	rs968104	T	A	0.111	0.025	8.24E-06	10512
family.Pasteurellaceae.id.3689	rs9938097	C	T	-0.071	0.016	8.23E-06	9402
family.Methanobacteriaceae.id.121	rs6508769	C	T	0.154	0.034	8.23E-06	3319
family.FamilyXIII.id.1957	rs10158652	C	T	-0.064	0.014	8.22E-06	16737
family.Veillonellaceae.id.2172	rs10086221	T	A	0.051	0.011	8.22E-06	15976
family.Methanobacteriaceae.id.121	rs74599069	C	A	0.221	0.049	8.22E-06	3342
family.FamilyXIII.id.1957	rs34664888	C	T	-0.059	0.013	8.22E-06	16737
family.Porphyromonadaceae.id.943	rs2851520	T	C	0.065	0.015	8.21E-06	18026
family.Alcaligenaceae.id.2875	rs7331960	A	G	-0.050	0.011	8.20E-06	16806

family.Victivallaceae.id.2255	rs7627405	T	C	-0.134	0.030	8.19E-06	3555
family.Lachnospiraceae.id.1987	rs1991016	C	T	-0.049	0.011	8.19E-06	18340
family.Rhodospirillaceae.id.2717	rs11944431	G	A	-0.099	0.022	8.19E-06	8501
family.Rhodospirillaceae.id.2717	rs80344265	C	T	-0.099	0.022	8.17E-06	8501
family.Rhodospirillaceae.id.2717	rs57340984	C	T	0.112	0.025	8.17E-06	8496
family.Rhodospirillaceae.id.2717	rs7078649	C	A	0.105	0.024	8.17E-06	8500
family.Streptococcaceae.id.1850	rs62077966	C	T	-0.049	0.011	8.16E-06	16621
family.Lachnospiraceae.id.1987	rs889359	C	T	-0.050	0.011	8.16E-06	18340
family.Bifidobacteriaceae.id.433	rs79176913	C	A	0.072	0.016	8.15E-06	14915
family.Alcaligenaceae.id.2875	rs73117396	G	A	0.068	0.015	8.15E-06	15876
family.Coribacteriaceae.id.811	rs11073596	G	T	0.051	0.011	8.14E-06	17527
family.Bifidobacteriaceae.id.433	rs309150	T	A	0.071	0.016	8.14E-06	14915
family.Peptostreptococcaceae.id.2042	rs77540684	G	T	0.107	0.025	8.14E-06	13495
family.FamilyXIII.id.1957	rs17366206	T	G	-0.066	0.015	8.12E-06	16633
family.Verrucomicrobiaceae.id.4036	rs4600885	A	C	0.063	0.014	8.12E-06	11864
family.Bifidobacteriaceae.id.433	rs6750549	A	G	0.072	0.016	8.10E-06	14795
family.Veillonellaceae.id.2172	rs17056612	G	A	0.093	0.021	8.10E-06	15169
family.Clostridiaceae1.id.1869	rs10875374	T	C	-0.054	0.012	8.10E-06	14253
family.Alcaligenaceae.id.2875	rs371834896	C	T	0.068	0.015	8.10E-06	15876
family.Oxalobacteraceae.id.2966	rs17138946	T	G	-0.189	0.043	8.09E-06	4776
family.Streptococcaceae.id.1850	rs11769597	T	C	-0.064	0.014	8.09E-06	16623
family.FamilyXIII.id.1957	rs66753613	A	G	0.065	0.014	8.08E-06	16269
family.Verrucomicrobiaceae.id.4036	rs72663751	G	A	0.065	0.015	8.08E-06	11860
family.Christensenellaceae.id.1866	rs4076564	A	G	-0.189	0.039	8.06E-06	3730
family.Alcaligenaceae.id.2875	rs1217467	C	T	-0.059	0.013	8.05E-06	16808
family.FamilyXI.id.1936	rs11021252	C	A	-0.130	0.029	8.05E-06	3156
family.Porphyromonadaceae.id.943	rs7330827	C	T	-0.104	0.024	8.05E-06	13754
family.Oxalobacteraceae.id.2966	rs12509763	G	C	-0.163	0.036	8.05E-06	5129
family.ClostridialesvadinBB60group.id.11286	rs9954215	C	T	-0.062	0.014	8.04E-06	10507
family.Prevotellaceae.id.960	rs75982374	A	G	0.080	0.018	8.04E-06	13480
family.Verrucomicrobiaceae.id.4036	rs4294419	G	A	0.063	0.014	8.04E-06	11864

family.Porphyromonadaceae.id.943	rs2675420	G	A	0.055	0.012	8.04E-06	18028
family.Clostridiaceae1.id.1869	rs876740	C	T	0.054	0.012	8.03E-06	14215
family.Streptococcaceae.id.1850	rs7901835	T	C	0.095	0.022	8.03E-06	15515
family.Erysipelotrichaceae.id.2149	rs290833	G	T	-0.050	0.011	8.03E-06	17789
family.Defluviitaleaceae.id.1924	rs6952956	C	T	-0.108	0.024	8.02E-06	8031
family.Coriobacteriaceae.id.811	rs11656361	C	A	0.077	0.018	8.02E-06	16665
family.ClostridialesvadinBB60group.id.11286	rs12123324	C	T	-0.074	0.017	8.02E-06	10512
family.Bifidobacteriaceae.id.433	rs7581814	C	G	0.071	0.016	8.01E-06	14915
family.Porphyromonadaceae.id.943	rs2675416	T	A	0.055	0.012	8.01E-06	18028
family.ClostridialesvadinBB60group.id.11286	rs59445772	A	G	0.124	0.027	8.01E-06	10199
family.Erysipelotrichaceae.id.2149	rs61865709	G	A	-0.053	0.012	8.00E-06	17789
family.Veillonellaceae.id.2172	rs72643860	A	G	-0.052	0.012	8.00E-06	15972
family.Lactobacillaceae.id.1836	rs1978760	T	C	-0.076	0.017	7.99E-06	7059
family.Bifidobacteriaceae.id.433	rs72717415	G	A	0.055	0.012	7.98E-06	14915
family.FamilyXIII.id.1957	rs10911971	G	C	-0.064	0.014	7.98E-06	16726
family.Veillonellaceae.id.2172	rs10086225	G	A	0.051	0.011	7.97E-06	15976
family.Verrucomicrobiaceae.id.4036	rs4107636	G	C	0.063	0.014	7.97E-06	11864
family.ClostridialesvadinBB60group.id.11286	rs7726056	G	A	-0.111	0.024	7.97E-06	10512
family.Lachnospiraceae.id.1987	rs7350265	G	T	0.048	0.011	7.97E-06	18333
family.Coriobacteriaceae.id.811	rs1834859	T	G	-0.057	0.013	7.97E-06	17686
family.Streptococcaceae.id.1850	rs77968078	A	G	-0.099	0.022	7.93E-06	15519
family.Bifidobacteriaceae.id.433	rs659440	T	A	0.072	0.016	7.93E-06	14915
family.Peptostreptococcaceae.id.2042	rs117127341	C	T	0.158	0.035	7.91E-06	7775
family.ClostridialesvadinBB60group.id.11286	rs17121075	A	G	0.077	0.017	7.91E-06	10512
family.Porphyromonadaceae.id.943	rs35233670	C	T	-0.047	0.011	7.91E-06	18024
family.Bifidobacteriaceae.id.433	rs6889494	C	T	0.055	0.012	7.91E-06	14915
family.Defluviitaleaceae.id.1924	rs10026953	G	A	-0.105	0.022	7.90E-06	8199
family.Clostridiaceae1.id.1869	rs7629156	C	T	-0.061	0.014	7.90E-06	14253
family.Peptostreptococcaceae.id.2042	rs1467258	A	G	0.073	0.016	7.90E-06	15584
family.Clostridiaceae1.id.1869	rs881532	G	A	-0.053	0.012	7.90E-06	14250
family.Veillonellaceae.id.2172	rs2561116	G	T	-0.084	0.019	7.89E-06	15976

family.Streptococcaceae.id.1850	rs57646748	A	G	-0.088	0.020	7.88E-06	16160
family.Veillonellaceae.id.2172	rs7814375	A	C	0.051	0.011	7.87E-06	15975
family.Coriobacteriaceae.id.811	rs62448869	A	T	-0.049	0.011	7.87E-06	17527
family.Defluviitaleaceae.id.1924	rs1908593	C	T	0.070	0.016	7.86E-06	8203
family.Actinomycetaceae.id.421	rs11055873	A	G	0.078	0.017	7.85E-06	7710
family.BacteroidalesS24.7group.id.11173	rs61508842	C	T	0.123	0.027	7.83E-06	7576
family.Enterobacteriaceae.id.3469	rs6069866	G	C	0.058	0.013	7.83E-06	13514
family.Coriobacteriaceae.id.811	rs7896306	T	G	0.072	0.016	7.82E-06	17691
family.Veillonellaceae.id.2172	rs4909362	C	T	0.051	0.011	7.82E-06	15976
family.Victivallaceae.id.2255	rs2944276	C	G	-0.118	0.026	7.82E-06	3555
family.Victivallaceae.id.2255	rs253708	G	A	0.118	0.026	7.81E-06	3915
family.unknownfamily.id.1000005471	rs4970840	G	A	-0.070	0.016	7.80E-06	9973
family.Prevotellaceae.id.960	rs55780618	C	G	-0.075	0.016	7.80E-06	14770
family.Porphyrmonadaceae.id.943	rs10965207	C	T	-0.066	0.015	7.80E-06	18028
family.unknownfamily.id.1000006161	rs7072640	G	C	-0.106	0.024	7.80E-06	5105
family.Coriobacteriaceae.id.811	rs13307134	T	C	0.057	0.013	7.80E-06	17527
family.Alcaligenaceae.id.2875	rs2040996	C	T	-0.049	0.011	7.80E-06	16801
family.Actinomycetaceae.id.421	rs12230967	A	G	0.078	0.017	7.79E-06	7710
family.Oxalobacteraceae.id.2966	rs6445050	A	G	0.098	0.022	7.79E-06	5166
family.FamilyXI.id.1936	rs34205092	A	G	-0.135	0.030	7.79E-06	3153
family.ClostridialesvadinBB60group.id.11286	rs2302202	T	C	0.123	0.026	7.79E-06	10199
family.Streptococcaceae.id.1850	rs10000595	C	A	-0.088	0.019	7.78E-06	16556
family.Bifidobacteriaceae.id.433	rs2090660	C	T	0.062	0.014	7.78E-06	14795
family.unknownfamily.id.1000006161	rs56328886	A	T	0.166	0.037	7.78E-06	4887
family.Rhodospirillaceae.id.2717	rs72714481	A	G	0.114	0.026	7.78E-06	8498
family.Verrucomicrobiaceae.id.4036	rs7538356	A	C	0.064	0.014	7.77E-06	11864
family.Streptococcaceae.id.1850	rs2907466	G	A	-0.049	0.011	7.76E-06	16627
family.Pasteurellaceae.id.3689	rs6972479	G	A	-0.078	0.018	7.75E-06	8616
family.Veillonellaceae.id.2172	rs4736971	C	A	-0.052	0.012	7.73E-06	15971
family.Oxalobacteraceae.id.2966	rs7617946	T	C	0.098	0.022	7.73E-06	5167
family.Bifidobacteriaceae.id.433	rs4988201	A	G	0.072	0.016	7.71E-06	14915

family.Bifidobacteriaceae.id.433	rs6707350	C	T	0.081	0.019	7.70E-06	14816
family.BacteroidalesS24.7group.id.11173	rs697400	A	G	0.076	0.017	7.70E-06	7951
family.Lactobacillaceae.id.1836	rs74599091	G	A	0.192	0.043	7.70E-06	4951
family.ClostridialesvadinBB60group.id.11286	rs9907155	G	A	0.137	0.030	7.69E-06	9703
family.Peptostreptococcaceae.id.2042	rs59865771	T	C	-0.057	0.013	7.69E-06	16040
family.Porphyrromonadaceae.id.943	rs7038649	T	C	-0.058	0.013	7.69E-06	18023
family.FamilyXIII.id.1957	rs12904405	G	A	-0.085	0.019	7.67E-06	16643
family.Bifidobacteriaceae.id.433	rs56182240	C	T	0.055	0.012	7.67E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs34088226	G	A	-0.118	0.027	7.66E-06	9716
family.Bacteroidaceae.id.917	rs2366421	A	T	-0.053	0.012	7.65E-06	18299
family.Prevotellaceae.id.960	rs17260438	G	A	-0.075	0.016	7.65E-06	14770
family.Bifidobacteriaceae.id.433	rs3099429	T	A	0.071	0.016	7.65E-06	14915
family.Verrucomicrobiaceae.id.4036	rs79837054	T	C	0.105	0.024	7.64E-06	11216
family.Erysipelotrichaceae.id.2149	rs28703642	G	T	0.053	0.012	7.64E-06	18217
family.Methanobacteriaceae.id.121	rs62240389	A	G	-0.188	0.042	7.64E-06	3385
family.FamilyXI.id.1936	rs10831388	C	T	-0.130	0.029	7.63E-06	3154
family.Alcaligenaceae.id.2875	rs4584714	A	G	-0.049	0.011	7.63E-06	16810
family.Enterobacteriaceae.id.3469	rs35673018	A	G	0.090	0.020	7.63E-06	13326
family.Rhodospirillaceae.id.2717	rs12977163	C	G	0.073	0.016	7.63E-06	8044
family.Streptococcaceae.id.1850	rs6504148	A	G	-0.050	0.011	7.62E-06	16627
family.Erysipelotrichaceae.id.2149	rs7100916	T	G	-0.053	0.012	7.62E-06	17789
family.Defluviitaleaceae.id.1924	rs76603889	G	A	-0.107	0.024	7.61E-06	7786
family.FamilyXIII.id.1957	rs62326992	G	T	-0.059	0.013	7.60E-06	16732
family.Prevotellaceae.id.960	rs7975087	A	C	-0.060	0.014	7.59E-06	14871
family.Lachnospiraceae.id.1987	rs10402491	T	C	0.066	0.015	7.58E-06	18334
family.FamilyXIII.id.1957	rs6693896	G	A	-0.064	0.014	7.58E-06	16737
family.Verrucomicrobiaceae.id.4036	rs72663785	C	G	0.066	0.015	7.56E-06	11864
family.Streptococcaceae.id.1850	rs386474	T	C	-0.050	0.011	7.56E-06	16623
family.Lachnospiraceae.id.1987	rs887732	G	C	-0.059	0.013	7.55E-06	18334
family.Bifidobacteriaceae.id.433	rs606101	G	A	-0.054	0.012	7.54E-06	14147
family.Victivallaceae.id.2255	rs41121	T	G	0.117	0.026	7.53E-06	3917

family.Lachnospiraceae.id.1987	rs1205444	G	A	0.050	0.011	7.53E-06	17779
family.Rhodospirillaceae.id.2717	rs7623329	C	A	-0.071	0.016	7.51E-06	8493
family.Rikenellaceae.id.967	rs10832801	C	A	-0.053	0.012	7.50E-06	17199
family.Oxalobacteraceae.id.2966	rs111624546	C	T	-0.128	0.028	7.50E-06	4996
family.Oxalobacteraceae.id.2966	rs57363691	A	T	-0.187	0.042	7.50E-06	4672
family.ClostridialesvadinBB60group.id.11286	rs9889426	A	C	0.136	0.029	7.49E-06	9703
family.Porphyrimonadaceae.id.943	rs7873444	G	C	-0.061	0.014	7.49E-06	18027
family.Bacteroidaceae.id.917	rs13207588	G	A	-0.059	0.013	7.49E-06	17707
family.Alcaligenaceae.id.2875	rs1859743	C	T	-0.049	0.011	7.47E-06	16702
family.Oxalobacteraceae.id.2966	rs62435498	A	C	0.182	0.040	7.46E-06	4780
family.Veillonellaceae.id.2172	rs4263802	A	G	0.051	0.011	7.45E-06	15976
family.Methanobacteriaceae.id.121	rs4753222	G	A	0.111	0.025	7.45E-06	3698
family.Methanobacteriaceae.id.121	rs4257531	A	G	0.164	0.036	7.44E-06	3162
family.Lachnospiraceae.id.1987	rs10852797	C	T	0.053	0.012	7.44E-06	17529
family.Bifidobacteriaceae.id.433	rs72717436	C	A	0.055	0.012	7.43E-06	14915
family.Clostridiaceae1.id.1869	rs4723021	C	T	-0.106	0.024	7.42E-06	13682
family.ClostridialesvadinBB60group.id.11286	rs13142641	G	C	0.062	0.014	7.42E-06	10509
family.Streptococcaceae.id.1850	rs957755	G	T	-0.064	0.014	7.42E-06	16627
family.Verrucomicrobiaceae.id.4036	rs72663769	T	C	0.065	0.015	7.41E-06	11861
family.Prevotellaceae.id.960	rs34660375	G	A	-0.081	0.018	7.40E-06	14289
family.Prevotellaceae.id.960	rs13069367	C	A	-0.054	0.012	7.39E-06	14860
family.Desulfovibrionaceae.id.3169	rs62020470	G	A	-0.057	0.013	7.38E-06	15142
family.Verrucomicrobiaceae.id.4036	rs12411321	T	C	0.074	0.017	7.37E-06	11865
family.Rhodospirillaceae.id.2717	rs72714493	G	A	0.082	0.018	7.35E-06	8497
family.Veillonellaceae.id.2172	rs1447205	C	G	-0.052	0.012	7.35E-06	15971
family.Erysipelotrichaceae.id.2149	rs7906464	T	A	-0.053	0.012	7.35E-06	17789
family.Verrucomicrobiaceae.id.4036	rs2199602	G	T	0.066	0.015	7.34E-06	11864
family.Desulfovibrionaceae.id.3169	rs7164160	T	A	-0.057	0.013	7.34E-06	15142
family.Streptococcaceae.id.1850	rs11110057	G	A	-0.084	0.019	7.33E-06	15847
family.Acidaminococcaceae.id.2166	rs1565606	T	C	-0.063	0.014	7.33E-06	12528
family.Coriobacteriaceae.id.811	rs7303392	C	T	-0.057	0.013	7.32E-06	17688

family.Pasteurellaceae.id.3689	rs16970009	G	A	0.187	0.043	7.32E-06	4703
family.Bifidobacteriaceae.id.433	rs55932239	G	A	0.055	0.012	7.30E-06	14915
family.Actinomycetaceae.id.421	rs34951409	C	G	0.078	0.017	7.29E-06	7710
family.Lachnospiraceae.id.1987	rs1205443	G	A	0.050	0.011	7.29E-06	17779
family.Bifidobacteriaceae.id.433	rs6899771	G	A	-0.091	0.020	7.28E-06	14150
family.BacteroidalesS24.7group.id.11173	rs17043784	C	G	-0.155	0.033	7.28E-06	5639
family.Oxalobacteraceae.id.2966	rs62304910	G	A	-0.186	0.042	7.27E-06	4672
family.FamilyXIII.id.1957	rs6831434	A	G	-0.049	0.011	7.27E-06	16737
family.Lachnospiraceae.id.1987	rs12760724	C	A	-0.048	0.011	7.27E-06	18340
family.Rhodospirillaceae.id.2717	rs80346366	C	T	-0.099	0.022	7.25E-06	8501
family.Veillonellaceae.id.2172	rs10013922	T	G	0.055	0.013	7.25E-06	15961
family.Bifidobacteriaceae.id.433	rs10857328	A	T	0.056	0.013	7.24E-06	14915
family.Streptococcaceae.id.1850	rs11720390	A	G	0.103	0.023	7.24E-06	15421
family.Streptococcaceae.id.1850	rs10826445	G	A	0.095	0.022	7.24E-06	15515
family.Streptococcaceae.id.1850	rs8072812	G	A	-0.050	0.011	7.23E-06	16626
family.Bifidobacteriaceae.id.433	rs75524146	C	T	0.074	0.016	7.23E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs16944016	A	T	0.137	0.030	7.23E-06	9703
family.Rhodospirillaceae.id.2717	rs67973976	T	C	0.116	0.026	7.23E-06	8044
family.Pasteurellaceae.id.3689	rs62568866	A	T	-0.118	0.026	7.23E-06	8020
family.Rhodospirillaceae.id.2717	rs61933850	A	G	0.165	0.036	7.23E-06	6830
family.ClostridialesvadinBB60group.id.11286	rs3845824	A	G	0.071	0.016	7.22E-06	10512
family.FamilyXIII.id.1957	rs4336803	G	T	-0.064	0.014	7.21E-06	16737
family.Porphyromonadaceae.id.943	rs12698889	G	A	0.075	0.017	7.21E-06	18023
family.Erysipelotrichaceae.id.2149	rs921306	C	T	0.049	0.011	7.20E-06	17789
family.Rikenellaceae.id.967	rs36021379	G	A	-0.066	0.014	7.20E-06	17199
family.Oxalobacteraceae.id.2966	rs561239	G	A	0.106	0.024	7.19E-06	4989
family.Veillonellaceae.id.2172	rs75768969	G	C	-0.070	0.016	7.19E-06	15975
family.Streptococcaceae.id.1850	rs11925530	A	C	0.103	0.023	7.18E-06	15421
family.Oxalobacteraceae.id.2966	rs62304913	C	T	-0.193	0.044	7.17E-06	4336
family.Veillonellaceae.id.2172	rs73557284	G	A	0.205	0.047	7.16E-06	3075
family.Bifidobacteriaceae.id.433	rs72717411	C	G	0.055	0.012	7.15E-06	14915

family.Bifidobacteriaceae.id.433	rs1056465	T	A	0.056	0.012	7.13E-06	14915
family.Actinomycetaceae.id.421	rs17072071	A	C	-0.112	0.025	7.13E-06	7343
family.Bifidobacteriaceae.id.433	rs12465599	G	A	0.053	0.012	7.13E-06	14915
family.Erysipelotrichaceae.id.2149	rs35587059	C	T	0.048	0.011	7.13E-06	18207
family.Erysipelotrichaceae.id.2149	rs41300431	G	A	0.048	0.011	7.12E-06	18216
family.FamilyXI.id.1936	rs2756218	C	T	-0.113	0.025	7.12E-06	3154
family.Alcaligenaceae.id.2875	rs4511740	A	G	0.058	0.013	7.12E-06	16809
family.Streptococcaceae.id.1850	rs10826446	T	C	0.095	0.022	7.11E-06	15515
family.Lachnospiraceae.id.1987	rs4744919	T	C	0.049	0.011	7.10E-06	18333
family.Rikenellaceae.id.967	rs35909684	C	A	-0.085	0.019	7.10E-06	17565
family.Verrucomicrobiaceae.id.4036	rs12026127	G	A	0.064	0.014	7.09E-06	11861
family.BacteroidalesS24.7group.id.11173	rs78609301	G	A	-0.087	0.020	7.09E-06	7953
family.Clostridiaceae1.id.1869	rs550843	C	T	-0.073	0.017	7.09E-06	14234
family.Acidaminococcaceae.id.2166	rs74540770	A	G	-0.109	0.024	7.09E-06	10606
family.Oxalobacteraceae.id.2966	rs79806081	G	A	-0.187	0.042	7.08E-06	4672
family.Pasteurellaceae.id.3689	rs40513	T	G	0.118	0.026	7.08E-06	8785
family.FamilyXI.id.1936	rs6025153	C	G	0.119	0.026	7.07E-06	3130
family.BacteroidalesS24.7group.id.11173	rs28434476	G	C	0.078	0.017	7.07E-06	7949
family.Pasteurellaceae.id.3689	rs111582866	A	G	-0.114	0.026	7.07E-06	8616
family.Bifidobacteriaceae.id.433	rs16832624	T	C	0.061	0.014	7.07E-06	14795
family.Rikenellaceae.id.967	rs4783173	G	C	0.048	0.011	7.06E-06	17086
family.Lachnospiraceae.id.1987	rs7359921	T	C	-0.050	0.011	7.06E-06	18340
family.Bifidobacteriaceae.id.433	rs7600925	A	G	0.093	0.020	7.06E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs34367586	A	G	0.125	0.027	7.05E-06	10199
family.Streptococcaceae.id.1850	rs7212556	G	T	-0.050	0.011	7.03E-06	16627
family.Porphyromonadaceae.id.943	rs12698860	G	A	0.077	0.017	7.02E-06	18028
family.Peptostreptococcaceae.id.2042	rs9573928	T	C	-0.064	0.014	7.01E-06	16060
family.Rhodospirillaceae.id.2717	rs4822789	C	G	0.073	0.016	7.01E-06	8492
family.Rhodospirillaceae.id.2717	rs3768870	A	C	0.091	0.020	6.99E-06	8501
family.FamilyXIII.id.1957	rs10404377	A	C	-0.050	0.011	6.99E-06	16269
family.Alcaligenaceae.id.2875	rs79846372	G	A	0.088	0.020	6.99E-06	16186

family.FamilyXIII.id.1957	rs13143273	C	A	-0.067	0.015	6.96E-06	16641
family.FamilyXIII.id.1957	rs28575314	T	C	0.049	0.011	6.96E-06	16730
family.ClostridialesvadinBB60group.id.11286	rs35380989	C	A	0.072	0.016	6.96E-06	10438
family.Rhodospirillaceae.id.2717	rs77304857	A	C	-0.100	0.022	6.95E-06	8500
family.Enterobacteriaceae.id.3469	rs80319214	G	C	0.099	0.022	6.95E-06	12641
family.Methanobacteriaceae.id.121	rs62241826	T	C	-0.190	0.041	6.95E-06	3383
family.Streptococcaceae.id.1850	rs8076071	A	T	-0.049	0.011	6.95E-06	16621
family.Streptococcaceae.id.1850	rs6806351	C	T	-0.062	0.014	6.94E-06	16198
family.Peptostreptococcaceae.id.2042	rs12647693	G	A	0.056	0.012	6.94E-06	16054
family.Porphyrmonadaceae.id.943	rs114875383	C	T	0.095	0.022	6.93E-06	17103
family.Streptococcaceae.id.1850	rs7835507	C	A	-0.073	0.016	6.92E-06	15959
family.Veillonellaceae.id.2172	rs2036713	A	C	-0.052	0.011	6.91E-06	15976
family.Clostridiaceae1.id.1869	rs12490337	G	C	-0.062	0.014	6.91E-06	14253
family.Bifidobacteriaceae.id.433	rs11678502	T	C	0.055	0.012	6.90E-06	14915
family.Desulfovibrionaceae.id.3169	rs7199026	A	C	-0.053	0.012	6.90E-06	15140
family.Porphyrmonadaceae.id.943	rs10757280	G	A	-0.065	0.015	6.90E-06	18024
family.Coriobacteriaceae.id.811	rs8010111	A	G	-0.103	0.023	6.90E-06	15996
family.Bifidobacteriaceae.id.433	rs75128007	A	G	0.062	0.014	6.87E-06	14795
family.Bifidobacteriaceae.id.433	rs7174549	T	C	0.055	0.012	6.87E-06	14915
family.Erysipelotrichaceae.id.2149	rs12258727	T	C	-0.052	0.011	6.86E-06	18201
family.Verrucomicrobiaceae.id.4036	rs12045978	G	A	0.064	0.014	6.86E-06	11865
family.Alcaligenaceae.id.2875	rs74776516	G	T	-0.094	0.021	6.85E-06	14502
family.Streptococcaceae.id.1850	rs4865417	A	G	-0.089	0.019	6.85E-06	16556
family.ClostridialesvadinBB60group.id.11286	rs989682	G	A	0.070	0.016	6.85E-06	10129
family.Streptococcaceae.id.1850	rs2975675	T	C	-0.068	0.015	6.83E-06	16627
family.ClostridialesvadinBB60group.id.11286	rs10517600	G	T	0.063	0.014	6.83E-06	10512
family.Bifidobacteriaceae.id.433	rs7560412	C	T	0.096	0.021	6.82E-06	14910
family.Rhodospirillaceae.id.2717	rs11127841	G	A	-0.088	0.020	6.82E-06	8494
family.Bifidobacteriaceae.id.433	rs78364332	T	C	0.072	0.016	6.82E-06	14915
family.Bifidobacteriaceae.id.433	rs1942051	A	G	0.053	0.012	6.80E-06	14915
family.Bifidobacteriaceae.id.433	rs676239	A	T	0.072	0.016	6.80E-06	14915

family.Actinomycetaceae.id.421	rs7958229	C	T	0.078	0.017	6.80E-06	7710
family.Rikenellaceae.id.967	rs11088466	T	A	-0.048	0.011	6.80E-06	17680
family.Victivallaceae.id.2255	rs2291840	C	A	-0.133	0.029	6.79E-06	3909
family.Methanobacteriaceae.id.121	rs62240390	C	G	-0.189	0.042	6.79E-06	3385
family.Desulfovibrionaceae.id.3169	rs3935584	T	C	-0.053	0.012	6.78E-06	15140
family.Bifidobacteriaceae.id.433	rs73958614	A	C	0.093	0.020	6.78E-06	14915
family.Streptococcaceae.id.1850	rs1518772	G	A	-0.050	0.011	6.76E-06	16627
family.Rikenellaceae.id.967	rs12350642	A	G	-0.088	0.020	6.75E-06	17679
family.Rikenellaceae.id.967	rs12346296	T	C	-0.088	0.020	6.75E-06	17679
family.Veillonellaceae.id.2172	rs61264131	C	A	0.202	0.046	6.75E-06	3075
family.Bacteroidaceae.id.917	rs1340391	C	T	-0.059	0.013	6.73E-06	18302
family.Streptococcaceae.id.1850	rs13379080	T	C	-0.082	0.018	6.72E-06	16517
family.Actinomycetaceae.id.421	rs59800030	C	T	0.076	0.017	6.71E-06	7710
family.Lachnospiraceae.id.1987	rs13241165	A	T	-0.047	0.011	6.71E-06	18338
family.Bifidobacteriaceae.id.433	rs4954218	T	G	-0.059	0.014	6.71E-06	13923
family.Bifidobacteriaceae.id.433	rs34847072	G	C	0.056	0.012	6.71E-06	14915
family.Rhodospirillaceae.id.2717	rs56021351	G	C	0.104	0.024	6.71E-06	8498
family.Bifidobacteriaceae.id.433	rs503227	T	C	0.072	0.016	6.71E-06	14914
family.Actinomycetaceae.id.421	rs56236273	T	A	0.076	0.017	6.71E-06	7710
family.Alcaligenaceae.id.2875	rs28437793	C	G	-0.057	0.013	6.70E-06	16805
family.Bifidobacteriaceae.id.433	rs72717432	G	A	0.056	0.012	6.69E-06	14795
family.Lachnospiraceae.id.1987	rs1345833	G	A	-0.050	0.011	6.69E-06	18340
family.Bifidobacteriaceae.id.433	rs72717407	G	A	0.056	0.012	6.68E-06	14915
family.Rhodospirillaceae.id.2717	rs74354280	T	C	-0.091	0.020	6.67E-06	8501
family.ClostridialesvadinBB60group.id.11286	rs4972883	C	A	0.072	0.016	6.67E-06	10437
family.Lactobacillaceae.id.1836	rs6092148	T	G	-0.077	0.017	6.66E-06	7004
family.Prevothellaceae.id.960	rs12143482	C	T	-0.076	0.016	6.66E-06	14770
family.Porphyromonadaceae.id.943	rs115602804	A	G	0.095	0.022	6.65E-06	17103
family.Bifidobacteriaceae.id.433	rs309172	A	G	0.070	0.016	6.64E-06	14915
family.BacteroidalesS24.7group.id.11173	rs1949158	C	T	0.079	0.017	6.64E-06	7949
family.Oxalobacteraceae.id.2966	rs80330081	C	A	-0.188	0.042	6.64E-06	4672

family.ClostridialesvadinBB60group.id.11286	rs7212702	G	A	0.124	0.026	6.64E-06	10199
family.Bifidobacteriaceae.id.433	rs3087343	T	G	0.072	0.016	6.64E-06	14915
family.Verrucomicrobiaceae.id.4036	rs61779207	A	G	-0.076	0.017	6.63E-06	11591
family.Veillonellaceae.id.2172	rs79596873	G	A	0.205	0.045	6.63E-06	5236
family.Rhodospirillaceae.id.2717	rs56250014	T	A	0.115	0.026	6.63E-06	8501
family.Acidaminococcaceae.id.2166	rs3000673	C	G	-0.063	0.014	6.63E-06	12528
family.Christensenellaceae.id.1866	rs5752917	G	A	-0.067	0.015	6.62E-06	16183
family.Bifidobacteriaceae.id.433	rs12472293	T	C	0.072	0.016	6.61E-06	14915
family.Alcaligenaceae.id.2875	rs28480294	C	T	-0.052	0.012	6.61E-06	16377
family.Peptococcaceae.id.2024	rs114332351	A	G	-0.136	0.030	6.60E-06	9093
family.Desulfovibrionaceae.id.3169	rs72821212	G	C	-0.092	0.020	6.60E-06	15037
family.Lactobacillaceae.id.1836	rs62314653	A	C	0.177	0.039	6.59E-06	6016
family.Alcaligenaceae.id.2875	rs66514327	A	T	0.068	0.015	6.58E-06	15886
family.Prevoellaceae.id.960	rs111795168	C	T	-0.077	0.017	6.57E-06	14769
family.Christensenellaceae.id.1866	rs870002	T	C	0.049	0.011	6.54E-06	16847
family.Lachnospiraceae.id.1987	rs146660815	C	T	-0.215	0.048	6.53E-06	4112
family.Christensenellaceae.id.1866	rs117186816	A	G	-0.206	0.044	6.52E-06	4310
family.Methanobacteriaceae.id.121	rs11018665	T	A	0.111	0.025	6.52E-06	3698
family.Lactobacillaceae.id.1836	rs12547259	A	G	-0.077	0.017	6.51E-06	7058
family.Rikenellaceae.id.967	rs10217435	T	C	-0.088	0.020	6.51E-06	17679
family.Victivallaceae.id.2255	rs2434250	A	G	0.114	0.025	6.51E-06	3917
family.Alcaligenaceae.id.2875	rs73119510	C	T	0.068	0.015	6.50E-06	15876
family.ClostridialesvadinBB60group.id.11286	rs72840351	G	C	0.138	0.030	6.48E-06	9703
family.Bifidobacteriaceae.id.433	rs309171	G	C	0.072	0.016	6.48E-06	14915
family.BacteroidalesS24.7group.id.11173	rs17346776	T	G	0.079	0.017	6.47E-06	7951
family.Erysipelotrichaceae.id.2149	rs11146160	A	G	-0.052	0.011	6.47E-06	18204
family.Prevoellaceae.id.960	rs926496	T	C	-0.053	0.012	6.46E-06	14809
family.Rhodospirillaceae.id.2717	rs1572583	A	C	0.071	0.016	6.45E-06	8498
family.Bifidobacteriaceae.id.433	rs34453673	G	C	0.056	0.012	6.43E-06	14914
family.Verrucomicrobiaceae.id.4036	rs4497215	C	T	0.064	0.014	6.43E-06	11865
family.Alcaligenaceae.id.2875	rs8115462	T	C	0.064	0.014	6.42E-06	15997

family.Ruminococcaceae.id.2050	rs138850552	C	T	0.102	0.023	6.42E-06	12742
family.Streptococcaceae.id.1850	rs2952186	T	C	-0.068	0.015	6.41E-06	16626
family.Bifidobacteriaceae.id.433	rs12188321	C	G	0.053	0.012	6.41E-06	14915
family.Actinomycetaceae.id.421	rs2110088	A	T	0.079	0.017	6.40E-06	7710
family.Victivallaceae.id.2255	rs7314815	A	G	0.101	0.023	6.40E-06	3912
family.Streptococcaceae.id.1850	rs241062	A	T	-0.050	0.011	6.40E-06	16612
family.Bifidobacteriaceae.id.433	rs16832162	T	A	0.072	0.016	6.39E-06	14915
family.Streptococcaceae.id.1850	rs7224059	C	A	-0.050	0.011	6.38E-06	16627
family.Christensenellaceae.id.1866	rs72706624	T	G	0.088	0.020	6.38E-06	14869
family.Rikenellaceae.id.967	rs4306975	G	T	0.053	0.012	6.36E-06	17199
family.Rhodospirillaceae.id.2717	rs11892008	C	T	0.114	0.025	6.34E-06	8496
family.Erysipelotrichaceae.id.2149	rs9852883	C	A	0.048	0.011	6.33E-06	18109
family.FamilyXIII.id.1957	rs34648645	A	T	-0.067	0.015	6.33E-06	16642
family.Streptococcaceae.id.1850	rs7916711	G	A	0.096	0.022	6.33E-06	15515
family.Streptococcaceae.id.1850	rs7219218	T	A	-0.050	0.011	6.33E-06	16626
family.Peptostreptococcaceae.id.2042	rs2328996	T	C	-0.064	0.014	6.32E-06	16061
family.ClostridialesvadinBB60group.id.11286	rs4972882	C	A	0.072	0.016	6.32E-06	10437
family.Streptococcaceae.id.1850	rs7838901	A	G	-0.061	0.014	6.32E-06	16620
family.Defluviitaleaceae.id.1924	rs7677780	G	T	-0.133	0.029	6.32E-06	8031
family.Peptostreptococcaceae.id.2042	rs4698733	T	C	0.055	0.012	6.32E-06	16059
family.Peptostreptococcaceae.id.2042	rs12993096	C	T	-0.057	0.013	6.31E-06	15981
family.Bifidobacteriaceae.id.433	rs56346498	C	T	0.056	0.012	6.30E-06	14915
family.Victivallaceae.id.2255	rs12806744	G	A	-0.130	0.028	6.29E-06	3909
family.FamilyXIII.id.1957	rs497142	T	G	0.058	0.013	6.27E-06	16737
family.FamilyXIII.id.1957	rs17040587	A	C	-0.060	0.013	6.27E-06	16737
family.Bifidobacteriaceae.id.433	rs12188678	T	C	0.056	0.012	6.26E-06	14915
family.Bifidobacteriaceae.id.433	rs10928519	C	T	0.053	0.012	6.26E-06	14915
family.Oxalobacteraceae.id.2966	rs36057338	T	G	0.182	0.040	6.26E-06	4738
family.Victivallaceae.id.2255	rs34962571	C	A	-0.187	0.042	6.25E-06	3237
family.Coriobacteriaceae.id.811	rs7912120	G	A	0.072	0.016	6.24E-06	17691
family.Alcaligenaceae.id.2875	rs11128180	G	A	0.059	0.013	6.24E-06	16810

family.Alcaligenaceae.id.2875	rs55995696	T	C	0.068	0.015	6.23E-06	15886
family.unknownfamily.id.1000005471	rs367586	A	C	-0.070	0.016	6.22E-06	9971
family.Desulfovibrionaceae.id.3169	rs35236973	T	A	-0.053	0.012	6.22E-06	15133
family.Lachnospiraceae.id.1987	rs3127230	T	C	-0.050	0.011	6.20E-06	18340
family.Victivallaceae.id.2255	rs13009241	G	A	0.118	0.026	6.20E-06	3909
family.Rikenellaceae.id.967	rs61978203	C	T	-0.151	0.034	6.19E-06	8478
family.Veillonellaceae.id.2172	rs114889439	G	A	-0.254	0.054	6.19E-06	3268
family.Defluviitaleaceae.id.1924	rs12122999	T	G	-0.082	0.018	6.18E-06	7830
family.Methanobacteriaceae.id.121	rs56131665	A	G	0.179	0.039	6.18E-06	3572
family.Bifidobacteriaceae.id.433	rs12188164	C	A	0.056	0.012	6.17E-06	14915
family.Bacteroidaceae.id.917	rs480694	T	A	-0.059	0.013	6.16E-06	17707
family.Lachnospiraceae.id.1987	rs12709872	C	T	-0.050	0.011	6.15E-06	18340
family.Erysipelotrichaceae.id.2149	rs1074800	G	A	0.049	0.011	6.15E-06	17789
family.Verrucomicrobiaceae.id.4036	rs7693865	C	T	0.107	0.024	6.13E-06	11216
family.Actinomycetaceae.id.421	rs58484246	C	T	0.076	0.017	6.12E-06	7710
family.Rikenellaceae.id.967	rs59663348	A	G	0.057	0.013	6.12E-06	17678
family.Alcaligenaceae.id.2875	rs41293110	G	T	0.068	0.015	6.12E-06	15886
family.Bifidobacteriaceae.id.433	rs11740891	A	G	0.054	0.012	6.11E-06	14795
family.BacteroidalesS24.7group.id.11173	rs6831034	A	T	-0.096	0.021	6.10E-06	7576
family.Rikenellaceae.id.967	rs2447496	A	G	-0.055	0.012	6.09E-06	17199
family.Bifidobacteriaceae.id.433	rs11688414	A	G	0.054	0.012	6.08E-06	14914
family.Rikenellaceae.id.967	rs12787515	G	A	-0.096	0.021	6.08E-06	17544
family.Methanobacteriaceae.id.121	rs12825290	G	C	-0.217	0.049	6.08E-06	3144
family.Lachnospiraceae.id.1987	rs7359957	T	C	-0.050	0.011	6.07E-06	18340
family.Coriobacteriaceae.id.811	rs7977399	C	T	-0.058	0.013	6.07E-06	17689
family.Methanobacteriaceae.id.121	rs55721046	A	G	-0.191	0.041	6.06E-06	3381
family.Actinomycetaceae.id.421	rs4073240	A	G	0.075	0.016	6.05E-06	7710
family.Streptococcaceae.id.1850	rs4968747	G	T	-0.050	0.011	6.05E-06	16622
family.Ruminococcaceae.id.2050	rs2426816	A	T	-0.048	0.011	6.04E-06	17774
family.Streptococcaceae.id.1850	rs10028558	T	C	-0.092	0.019	6.04E-06	16549
family.Rhodospirillaceae.id.2717	rs6759037	G	A	0.114	0.025	6.03E-06	8495

family.Prevotellaceae.id.960	rs111996655	C	T	-0.075	0.016	6.02E-06	14764
family.Bifidobacteriaceae.id.433	rs10432371	G	A	0.053	0.012	6.02E-06	14915
family.Peptostreptococcaceae.id.2042	rs77297228	G	A	0.159	0.035	6.02E-06	7977
family.Ruminococcaceae.id.2050	rs7571324	T	C	0.157	0.035	6.01E-06	4140
family.ClostridialesvadinBB60group.id.11286	rs16943994	G	A	0.126	0.027	6.01E-06	10199
family.Bifidobacteriaceae.id.433	rs677208	C	G	0.073	0.016	6.00E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs13004970	T	A	0.072	0.016	6.00E-06	10437
family.Porphyrmonadaceae.id.943	rs2675423	C	A	0.056	0.012	5.99E-06	18028
family.Bifidobacteriaceae.id.433	rs766271	C	T	0.054	0.012	5.98E-06	14915
family.Lactobacillaceae.id.1836	rs6024243	T	A	-0.078	0.017	5.98E-06	7002
family.Pasteurellaceae.id.3689	rs7115142	A	G	-0.068	0.015	5.97E-06	9408
family.Alcaligenaceae.id.2875	rs1153990	G	A	-0.059	0.013	5.97E-06	16808
family.Rhodospirillaceae.id.2717	rs35396261	T	G	0.072	0.016	5.97E-06	8501
family.FamilyXIII.id.1957	rs67320257	C	A	-0.062	0.014	5.97E-06	15975
family.Alcaligenaceae.id.2875	rs6561944	T	C	-0.050	0.011	5.96E-06	16810
family.Lactobacillaceae.id.1836	rs59849860	A	G	-0.101	0.022	5.96E-06	6707
family.Lactobacillaceae.id.1836	rs77478751	G	A	-0.219	0.047	5.96E-06	3704
family.Bifidobacteriaceae.id.433	rs11655079	C	T	-0.059	0.013	5.92E-06	14912
family.Methanobacteriaceae.id.121	rs75208022	T	C	-0.227	0.049	5.92E-06	3203
family.Bifidobacteriaceae.id.433	rs113974791	T	G	0.072	0.016	5.92E-06	14915
family.Bifidobacteriaceae.id.433	rs12986776	G	C	0.056	0.012	5.91E-06	14915
family.FamilyXIII.id.1957	rs35559104	G	A	-0.060	0.014	5.90E-06	16643
family.Coriobacteriaceae.id.811	rs4880783	T	G	0.057	0.013	5.90E-06	17691
family.FamilyXI.id.1936	rs11976830	T	C	-0.169	0.036	5.89E-06	3156
family.Lachnospiraceae.id.1987	rs147922050	C	G	0.058	0.013	5.89E-06	17522
family.Lachnospiraceae.id.1987	rs62078073	T	G	0.053	0.012	5.88E-06	17513
family.Streptococcaceae.id.1850	rs7316693	A	G	-0.055	0.012	5.87E-06	15960
family.Acidaminococcaceae.id.2166	rs45497800	C	T	-0.118	0.026	5.86E-06	11316
family.Bacteroidaceae.id.917	rs66710942	T	C	0.049	0.011	5.86E-06	17821
family.Defluviitaleaceae.id.1924	rs4344384	T	G	0.071	0.016	5.86E-06	8200
family.Oxalobacteraceae.id.2966	rs73733961	T	C	-0.128	0.028	5.86E-06	4997

family.Rhodospirillaceae.id.2717	rs4266206	G	A	-0.088	0.020	5.84E-06	8494
family.Rhodospirillaceae.id.2717	rs1035406	A	G	-0.114	0.025	5.84E-06	8483
family.Bacteroidaceae.id.917	rs7322219	T	C	0.052	0.012	5.83E-06	17821
family.Bifidobacteriaceae.id.433	rs56042615	G	A	0.056	0.012	5.83E-06	14915
family.Porphyromonadaceae.id.943	rs34701787	C	T	0.079	0.017	5.82E-06	18028
family.Bifidobacteriaceae.id.433	rs1960171	C	T	0.060	0.013	5.82E-06	14795
family.Peptococcaceae.id.2024	rs12144792	T	C	0.064	0.014	5.82E-06	10718
family.Alcaligenaceae.id.2875	rs7317710	T	C	0.050	0.011	5.82E-06	16810
family.Rikenellaceae.id.967	rs7242694	T	C	-0.062	0.013	5.81E-06	17199
family.Bifidobacteriaceae.id.433	rs13410301	T	C	0.054	0.012	5.79E-06	14913
family.Erysipelotrichaceae.id.2149	rs34221479	C	T	0.049	0.011	5.79E-06	18108
family.BacteroidalesS24.7group.id.11173	rs17043777	T	G	-0.158	0.033	5.79E-06	5639
family.Christensenellaceae.id.1866	rs12380890	G	A	-0.050	0.011	5.78E-06	16846
family.Streptococcaceae.id.1850	rs2370086	T	G	-0.083	0.018	5.77E-06	16516
family.Peptostreptococcaceae.id.2042	rs12986312	G	T	0.057	0.013	5.77E-06	15970
family.Rhodospirillaceae.id.2717	rs12772311	T	C	0.072	0.016	5.76E-06	8501
family.Bifidobacteriaceae.id.433	rs3769018	T	C	0.094	0.020	5.76E-06	14915
family.Rikenellaceae.id.967	rs2836934	A	C	-0.048	0.011	5.76E-06	17680
family.Rhodospirillaceae.id.2717	rs67824877	T	G	0.071	0.016	5.76E-06	8498
family.Streptococcaceae.id.1850	rs1601915	C	T	-0.082	0.018	5.74E-06	15531
family.Porphyromonadaceae.id.943	rs2137100	T	G	0.056	0.012	5.74E-06	18028
family.Alcaligenaceae.id.2875	rs58598064	G	T	0.069	0.015	5.73E-06	15876
family.Prevotellaceae.id.960	rs6087027	T	C	-0.053	0.012	5.71E-06	14809
family.Actinomycetaceae.id.421	rs61937253	C	T	0.079	0.018	5.68E-06	7666
family.Rikenellaceae.id.967	rs61978202	G	A	-0.151	0.034	5.68E-06	8478
family.ClostridialesvadinBB60group.id.11286	rs12997748	T	C	0.072	0.016	5.68E-06	10438
family.Rhodospirillaceae.id.2717	rs11596757	C	G	0.072	0.016	5.66E-06	8500
family.Bacteroidaceae.id.917	rs68118234	T	C	-0.077	0.017	5.65E-06	17484
family.Actinomycetaceae.id.421	rs6488665	T	C	0.079	0.017	5.63E-06	7710
family.Coriobacteriaceae.id.811	rs76779974	G	C	0.077	0.017	5.63E-06	16419
family.FamilyXIII.id.1957	rs34460632	G	A	-0.062	0.014	5.61E-06	15978

family.FamilyXIII.id.1957	rs6851324	C	T	-0.050	0.011	5.61E-06	16736
family.Peptostreptococcaceae.id.2042	rs11149051	C	T	-0.065	0.014	5.61E-06	16059
family.Prevothaceae.id.960	rs34071565	A	T	-0.157	0.035	5.60E-06	8136
family.Christensenellaceae.id.1866	rs12657403	G	A	0.078	0.017	5.59E-06	16245
family.Pasteurellaceae.id.3689	rs7270573	G	C	-0.068	0.015	5.58E-06	9367
family.Actinomycetaceae.id.421	rs2377095	C	A	0.079	0.017	5.58E-06	7710
family.Prevothaceae.id.960	rs7252711	G	A	-0.074	0.016	5.57E-06	14540
family.Bifidobacteriaceae.id.433	rs11896918	A	G	0.094	0.020	5.57E-06	14915
family.FamilyXIII.id.1957	rs34025726	T	A	-0.062	0.014	5.56E-06	15978
family.Defluviitaleaceae.id.1924	rs28696126	T	A	-0.107	0.024	5.56E-06	7830
family.Bifidobacteriaceae.id.433	rs1057031	G	A	0.073	0.016	5.56E-06	14915
family.Bifidobacteriaceae.id.433	rs56146525	A	C	0.057	0.012	5.54E-06	14915
family.Oxalobacteraceae.id.2966	rs12002250	C	A	0.196	0.045	5.53E-06	4726
family.Oxalobacteraceae.id.2966	rs12004269	T	G	0.196	0.045	5.53E-06	4726
family.Lachnospiraceae.id.1987	rs72861044	A	G	0.056	0.013	5.53E-06	17529
family.Bifidobacteriaceae.id.433	rs895285	A	G	0.074	0.016	5.52E-06	14915
family.Victivallaceae.id.2255	rs111911665	G	A	-0.180	0.041	5.51E-06	3915
family.Peptostreptococcaceae.id.2042	rs10208182	A	G	0.051	0.011	5.50E-06	16061
family.Rhodospirillaceae.id.2717	rs62255666	G	A	-0.082	0.018	5.50E-06	8499
family.Streptococcaceae.id.1850	rs11110079	C	A	-0.080	0.018	5.49E-06	15850
family.ClostridialesvadinBB60group.id.11286	rs13185255	A	G	-0.114	0.024	5.49E-06	10512
family.Peptostreptococcaceae.id.2042	rs9318445	C	T	-0.065	0.014	5.48E-06	16061
family.Bifidobacteriaceae.id.433	rs3099427	A	G	0.071	0.016	5.48E-06	14915
family.Actinomycetaceae.id.421	rs34583783	T	G	0.124	0.026	5.48E-06	7710
family.Defluviitaleaceae.id.1924	rs7664875	G	A	-0.133	0.029	5.48E-06	8031
family.Veillonellaceae.id.2172	rs6909981	T	C	-0.064	0.014	5.48E-06	15976
family.Bifidobacteriaceae.id.433	rs75753154	T	C	0.073	0.016	5.47E-06	14915
family.Actinomycetaceae.id.421	rs7488453	A	G	0.079	0.017	5.45E-06	7710
family.Methanobacteriaceae.id.121	rs62241828	A	G	-0.193	0.042	5.45E-06	3383
family.Bifidobacteriaceae.id.433	rs309118	G	C	0.071	0.015	5.44E-06	14914
family.Bifidobacteriaceae.id.433	rs56104584	T	C	0.057	0.012	5.43E-06	14915

family.Bifidobacteriaceae.id.433	rs112758679	A	C	0.073	0.016	5.42E-06	14915
family.Bifidobacteriaceae.id.433	rs72717412	C	T	0.056	0.012	5.42E-06	14915
family.FamilyXIII.id.1957	rs4514220	G	A	0.059	0.013	5.42E-06	16737
family.Rikenellaceae.id.967	rs61978199	T	C	-0.152	0.034	5.42E-06	8478
family.Erysipelotrichaceae.id.2149	rs56970041	G	T	0.072	0.016	5.40E-06	18217
family.Actinomycetaceae.id.421	rs11055860	A	G	0.079	0.017	5.40E-06	7710
family.Methanobacteriaceae.id.121	rs62241829	C	T	-0.193	0.042	5.39E-06	3383
family.Streptococcaceae.id.1850	rs4968638	C	T	-0.050	0.011	5.39E-06	16622
family.Coriobacteriaceae.id.811	rs67561917	G	A	-0.071	0.015	5.39E-06	17333
family.Lactobacillaceae.id.1836	rs12542112	T	C	-0.078	0.017	5.38E-06	7059
family.Verrucomicrobiaceae.id.4036	rs72663782	G	C	0.066	0.014	5.38E-06	11865
family.Actinomycetaceae.id.421	rs11055861	A	G	0.079	0.017	5.38E-06	7710
family.Bifidobacteriaceae.id.433	rs7606267	T	C	0.073	0.016	5.37E-06	14915
family.Bifidobacteriaceae.id.433	rs540489	G	T	-0.063	0.014	5.37E-06	14688
family.Actinomycetaceae.id.421	rs6488659	T	C	0.079	0.017	5.36E-06	7710
family.Rhodospirillaceae.id.2717	rs62255732	C	T	-0.089	0.020	5.36E-06	8494
family.Lachnospiraceae.id.1987	rs7359994	C	T	-0.050	0.011	5.36E-06	18340
family.Bifidobacteriaceae.id.433	rs72717410	A	T	0.056	0.012	5.35E-06	14914
family.Ruminococcaceae.id.2050	rs10093275	T	C	0.053	0.012	5.35E-06	18335
family.Methanobacteriaceae.id.121	rs62241827	T	G	-0.193	0.042	5.35E-06	3383
family.Rhodospirillaceae.id.2717	rs7001029	T	C	0.117	0.026	5.35E-06	8044
family.Clostridiaceae1.id.1869	rs12186080	A	G	0.075	0.016	5.34E-06	14244
family.Streptococcaceae.id.1850	rs16950051	G	A	0.107	0.024	5.34E-06	14431
family.Bifidobacteriaceae.id.433	rs669759	T	C	-0.054	0.012	5.33E-06	14150
family.Acidaminococcaceae.id.2166	rs6701725	G	A	-0.059	0.013	5.31E-06	12528
family.Enterobacteriaceae.id.3469	rs62210022	C	T	0.070	0.016	5.30E-06	13513
family.Lachnospiraceae.id.1987	rs34148016	T	A	-0.054	0.012	5.30E-06	18327
family.Bifidobacteriaceae.id.433	rs6712127	A	G	0.069	0.015	5.30E-06	14915
family.Bifidobacteriaceae.id.433	rs2164918	T	G	0.091	0.019	5.28E-06	14915
family.FamilyXI.id.1936	rs3928987	G	A	-0.115	0.025	5.28E-06	3156
family.Alcaligenaceae.id.2875	rs112135816	G	T	-0.078	0.017	5.28E-06	15545

family.Clostridiaceae1.id.1869	rs2817172	T	C	0.056	0.012	5.27E-06	13789
family.Veillonellaceae.id.2172	rs2585520	T	G	-0.090	0.020	5.27E-06	15501
family.Actinomycetaceae.id.421	rs6488660	C	T	0.080	0.017	5.27E-06	7710
family.Peptococcaceae.id.2024	rs11136654	T	G	0.086	0.018	5.26E-06	10716
family.Bifidobacteriaceae.id.433	rs12187440	G	A	0.056	0.012	5.25E-06	14914
family.Streptococcaceae.id.1850	rs7187700	G	A	0.058	0.013	5.25E-06	16627
family.Coriobacteriaceae.id.811	rs7898585	C	T	0.073	0.016	5.25E-06	17691
family.Bacteroidaceae.id.917	rs79471440	G	T	0.058	0.013	5.24E-06	18182
family.Bifidobacteriaceae.id.433	rs2839740	G	T	0.075	0.016	5.22E-06	14914
family.Christensenellaceae.id.1866	rs9613908	C	T	-0.067	0.015	5.22E-06	16183
family.Bacteroidaceae.id.917	rs6015624	A	G	0.075	0.017	5.21E-06	17411
family.Bifidobacteriaceae.id.433	rs861392	T	C	0.055	0.012	5.21E-06	14914
family.Peptostreptococcaceae.id.2042	rs1351267	C	T	0.051	0.011	5.20E-06	16061
family.Bifidobacteriaceae.id.433	rs309142	T	C	0.070	0.015	5.19E-06	14915
family.Lachnospiraceae.id.1987	rs13241538	G	C	-0.048	0.011	5.19E-06	18340
family.Alcaligenaceae.id.2875	rs77984434	C	A	0.130	0.028	5.18E-06	11595
family.Enterobacteriaceae.id.3469	rs504442	G	T	0.084	0.019	5.17E-06	13578
family.Lachnospiraceae.id.1987	rs959845	T	C	-0.049	0.011	5.17E-06	17859
family.Rhodospirillaceae.id.2717	rs12632655	G	A	-0.089	0.020	5.17E-06	8494
family.Acidaminococcaceae.id.2166	rs1109873	G	A	-0.064	0.014	5.17E-06	12525
family.Lachnospiraceae.id.1987	rs34533733	G	C	-0.049	0.011	5.16E-06	17859
family.Bifidobacteriaceae.id.433	rs2230437	C	T	0.055	0.012	5.16E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs12614624	T	C	0.073	0.016	5.15E-06	10437
family.unknownfamily.id.1000006161	rs6597703	A	C	-0.109	0.024	5.14E-06	5105
family.Bifidobacteriaceae.id.433	rs614193	A	T	0.072	0.016	5.14E-06	14914
family.ClostridialesvadinBB60group.id.11286	rs10515175	T	C	0.126	0.027	5.14E-06	10199
family.Alcaligenaceae.id.2875	rs9527726	A	G	-0.050	0.011	5.12E-06	16810
family.Bifidobacteriaceae.id.433	rs309167	C	T	0.075	0.016	5.12E-06	14915
family.Alcaligenaceae.id.2875	rs78428620	C	T	-0.093	0.021	5.12E-06	15869
family.Verrucomicrobiaceae.id.4036	rs72663756	C	T	0.067	0.015	5.12E-06	11860
family.Bifidobacteriaceae.id.433	rs7573555	T	C	0.073	0.016	5.12E-06	14915

family.Lactobacillaceae.id.1836	rs1434764	G	T	-0.078	0.017	5.11E-06	7058
family.Bifidobacteriaceae.id.433	rs6711997	T	C	0.062	0.014	5.10E-06	14915
family.Streptococcaceae.id.1850	rs8079516	A	G	-0.051	0.011	5.10E-06	16623
family.Bifidobacteriaceae.id.433	rs1992764	C	T	0.054	0.012	5.09E-06	14915
family.BacteroidalesS24.7group.id.11173	rs965441	C	A	-0.159	0.033	5.09E-06	5639
family.Bifidobacteriaceae.id.433	rs842356	A	G	0.074	0.016	5.09E-06	14795
family.Streptococcaceae.id.1850	rs6504149	G	C	-0.050	0.011	5.08E-06	16627
family.Peptostreptococcaceae.id.2042	rs6721459	G	A	0.051	0.011	5.08E-06	16061
family.Verrucomicrobiaceae.id.4036	rs6668273	G	A	0.065	0.014	5.08E-06	11864
family.ClostridialesvadinBB60group.id.11286	rs72840345	G	A	0.127	0.027	5.08E-06	10199
family.Erysipelotrichaceae.id.2149	rs3804139	C	T	0.049	0.011	5.08E-06	18215
family.FamilyXIII.id.1957	rs7539202	T	C	0.059	0.013	5.07E-06	16737
family.FamilyXI.id.1936	rs10817437	C	T	-0.152	0.033	5.06E-06	3151
family.Verrucomicrobiaceae.id.4036	rs72663787	G	A	0.066	0.015	5.06E-06	11865
family.Bifidobacteriaceae.id.433	rs3112496	C	T	0.071	0.016	5.05E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs10904722	T	C	-0.067	0.015	5.05E-06	10512
family.Peptococcaceae.id.2024	rs9603802	C	G	-0.081	0.018	5.04E-06	10444
family.Oxalobacteraceae.id.2966	rs7993559	A	C	0.092	0.020	5.04E-06	4989
family.Verrucomicrobiaceae.id.4036	rs3995795	T	C	0.064	0.014	5.03E-06	11690
family.Bacteroidaceae.id.917	rs2023437	C	T	-0.078	0.017	5.02E-06	17484
family.BacteroidalesS24.7group.id.11173	rs12148053	T	C	0.080	0.017	5.01E-06	7950
family.Streptococcaceae.id.1850	rs2927291	G	A	-0.050	0.011	5.00E-06	16627
family.FamilyXIII.id.1957	rs34583378	G	T	-0.068	0.015	5.00E-06	16641
family.Bifidobacteriaceae.id.433	rs309165	T	C	0.070	0.015	5.00E-06	14915
family.Bifidobacteriaceae.id.433	rs499483	G	A	0.075	0.016	4.99E-06	14914
family.Victivallaceae.id.2255	rs59078374	C	G	0.143	0.030	4.98E-06	3906
family.Rhodospirillaceae.id.2717	rs10181850	A	C	0.093	0.020	4.98E-06	8501
family.Peptostreptococcaceae.id.2042	rs12645967	G	C	0.056	0.012	4.97E-06	16054
family.Bifidobacteriaceae.id.433	rs7556781	A	G	0.068	0.014	4.97E-06	14915
family.Bifidobacteriaceae.id.433	rs3099428	C	G	0.072	0.016	4.96E-06	14915
family.Porphyromonadaceae.id.943	rs10965284	C	T	-0.064	0.014	4.96E-06	18026

family.Streptococcaceae.id.1850	rs7134384	T	C	-0.080	0.018	4.95E-06	15960
family.Erysipelotrichaceae.id.2149	rs9990392	T	C	0.049	0.011	4.94E-06	18215
family.Bifidobacteriaceae.id.433	rs67665078	G	A	0.053	0.012	4.93E-06	14914
family.Bifidobacteriaceae.id.433	rs660002	C	T	0.070	0.015	4.93E-06	14915
family.Enterobacteriaceae.id.3469	rs2374343	G	C	0.058	0.013	4.93E-06	13576
family.Rhodospirillaceae.id.2717	rs3768869	A	G	0.093	0.020	4.92E-06	8501
family.Streptococcaceae.id.1850	rs9903102	A	C	-0.069	0.015	4.92E-06	16623
family.Verrucomicrobiaceae.id.4036	rs11724791	G	A	0.066	0.014	4.92E-06	11865
family.Oxalobacteraceae.id.2966	rs12360820	C	A	0.120	0.026	4.92E-06	5168
family.Lachnospiraceae.id.1987	rs10980809	T	C	-0.049	0.011	4.91E-06	17859
family.Bifidobacteriaceae.id.433	rs586964	G	A	0.075	0.016	4.90E-06	14914
family.ClostridialesvadinBB60group.id.11286	rs10179973	C	A	0.064	0.014	4.90E-06	10510
family.FamilyXIII.id.1957	rs6797051	T	C	-0.081	0.017	4.89E-06	16737
family.Actinomycetaceae.id.421	rs114313061	A	C	0.080	0.018	4.89E-06	7666
family.Streptococcaceae.id.1850	rs12595929	C	T	0.058	0.013	4.89E-06	16627
family.Methanobacteriaceae.id.121	rs11123059	A	G	-0.108	0.023	4.87E-06	3694
family.Rhodospirillaceae.id.2717	rs16855116	C	T	0.115	0.025	4.85E-06	8499
family.ClostridialesvadinBB60group.id.11286	rs66714985	C	A	0.117	0.025	4.85E-06	10512
family.Bifidobacteriaceae.id.433	rs73797465	G	T	-0.094	0.021	4.85E-06	14795
family.Alcaligenaceae.id.2875	rs13385989	A	C	0.063	0.014	4.84E-06	16377
family.Coriobacteriaceae.id.811	rs1816223	G	A	-0.059	0.013	4.84E-06	17688
family.Bifidobacteriaceae.id.433	rs9800013	A	G	0.065	0.015	4.84E-06	14808
family.Porphyromonadaceae.id.943	rs2851493	G	T	0.066	0.015	4.84E-06	18026
family.ClostridialesvadinBB60group.id.11286	rs78285863	C	A	0.073	0.016	4.83E-06	10512
family.Bifidobacteriaceae.id.433	rs79106992	C	T	-0.084	0.018	4.83E-06	13923
family.Coriobacteriaceae.id.811	rs11250875	C	T	0.061	0.013	4.83E-06	17690
family.Clostridiaceae1.id.1869	rs941434	C	A	-0.179	0.039	4.81E-06	6411
family.FamilyXI.id.1936	rs488164	G	T	0.118	0.026	4.80E-06	3149
family.Lactobacillaceae.id.1836	rs7399816	G	A	-0.104	0.022	4.79E-06	6707
family.Bifidobacteriaceae.id.433	rs13387501	C	T	0.062	0.014	4.78E-06	14915
family.Enterobacteriaceae.id.3469	rs7271805	C	A	0.059	0.013	4.77E-06	13513

family.FamilyXIII.id.1957	rs35112465	C	A	-0.061	0.014	4.77E-06	16643
family.Acidaminococcaceae.id.2166	rs3012352	T	C	-0.064	0.014	4.76E-06	12528
family.FamilyXIII.id.1957	rs7076829	A	T	-0.052	0.011	4.76E-06	16269
family.ClostridialesvadinBB60group.id.11286	rs7544734	T	C	-0.064	0.014	4.75E-06	10510
family.Rhodospirillaceae.id.2717	rs3754623	G	T	0.093	0.020	4.75E-06	8500
family.Peptostreptococcaceae.id.2042	rs7326261	G	A	-0.065	0.014	4.75E-06	16054
family.Bifidobacteriaceae.id.433	rs72711368	C	T	0.057	0.012	4.75E-06	14795
family.Lachnospiraceae.id.1987	rs4545208	T	C	-0.049	0.011	4.74E-06	17859
family.Christensenellaceae.id.1866	rs5752918	G	A	-0.068	0.015	4.73E-06	16183
family.Bifidobacteriaceae.id.433	rs55842567	G	A	0.057	0.012	4.73E-06	14915
family.Rikenellaceae.id.967	rs8130320	G	A	-0.049	0.011	4.73E-06	17680
family.Rhodospirillaceae.id.2717	rs2086613	G	A	-0.089	0.020	4.73E-06	8494
family.BacteroidalesS24.7group.id.11173	rs28494831	C	T	0.080	0.017	4.72E-06	7950
family.Verrucomicrobiaceae.id.4036	rs113653192	C	T	0.108	0.024	4.72E-06	11216
family.Pasteurellaceae.id.3689	rs4822728	C	T	0.069	0.015	4.72E-06	9412
family.Bifidobacteriaceae.id.433	rs11743825	C	T	0.056	0.012	4.71E-06	14915
family.Alcaligenaceae.id.2875	rs368042645	G	A	0.069	0.015	4.71E-06	15876
family.Rhodospirillaceae.id.2717	rs1549633	C	A	0.100	0.022	4.70E-06	8010
family.Bifidobacteriaceae.id.433	rs3098102	C	T	0.072	0.016	4.70E-06	14915
family.Streptococcaceae.id.1850	rs55657347	T	G	-0.092	0.019	4.70E-06	16549
family.Rhodospirillaceae.id.2717	rs35982688	T	C	0.072	0.016	4.68E-06	8497
family.Erysipelotrichaceae.id.2149	rs3804140	C	T	0.049	0.011	4.68E-06	18215
family.Methanobacteriaceae.id.121	rs62241839	A	G	-0.195	0.042	4.68E-06	3383
family.Prevoellaceae.id.960	rs12873417	T	C	0.058	0.013	4.67E-06	14871
family.ClostridialesvadinBB60group.id.11286	rs1860762	T	C	0.073	0.016	4.66E-06	10512
family.Coriobacteriaceae.id.811	rs80046645	G	C	0.256	0.056	4.66E-06	3204
family.unknownfamily.id.1000006161	rs267954	T	A	0.096	0.021	4.65E-06	5107
family.Rhodospirillaceae.id.2717	rs11598143	T	C	0.071	0.016	4.65E-06	8500
family.Streptococcaceae.id.1850	rs77628647	G	A	-0.085	0.018	4.64E-06	15850
family.Verrucomicrobiaceae.id.4036	rs1605923	T	G	0.066	0.014	4.64E-06	11865
family.Veillonellaceae.id.2172	rs2175069	G	A	-0.053	0.011	4.64E-06	15976

family.Streptococcaceae.id.1850	rs2975653	G	A	-0.057	0.013	4.62E-06	16623
family.BacteroidalesS24.7group.id.11173	rs690117	G	A	0.081	0.018	4.62E-06	7948
family.ClostridialesvadinBB60group.id.11286	rs12997335	T	A	0.073	0.016	4.62E-06	10438
family.FamilyXI.id.1936	rs34601953	T	A	-0.138	0.030	4.62E-06	3155
family.Defluviitaleaceae.id.1924	rs9608282	G	T	0.139	0.030	4.61E-06	7736
family.Methanobacteriaceae.id.121	rs62241837	G	A	-0.195	0.042	4.61E-06	3383
family.Methanobacteriaceae.id.121	rs62241838	T	C	-0.195	0.042	4.61E-06	3383
family.Streptococcaceae.id.1850	rs10025825	A	G	-0.093	0.019	4.60E-06	16549
family.Streptococcaceae.id.1850	rs10026175	A	G	-0.092	0.019	4.59E-06	16549
family.Streptococcaceae.id.1850	rs75088533	C	T	-0.085	0.018	4.59E-06	15850
family.Defluviitaleaceae.id.1924	rs17051335	T	C	-0.134	0.029	4.58E-06	8031
family.Methanobacteriaceae.id.121	rs62241832	G	A	-0.196	0.042	4.58E-06	3383
family.Streptococcaceae.id.1850	rs7971435	T	G	-0.084	0.018	4.57E-06	15956
family.Veillonellaceae.id.2172	rs11838712	G	A	0.094	0.020	4.57E-06	15170
family.Oxalobacteraceae.id.2966	rs111966731	C	T	0.204	0.045	4.56E-06	4387
family.Alcaligenaceae.id.2875	rs9520346	G	C	0.147	0.034	4.56E-06	4725
family.Peptostreptococcaceae.id.2042	rs842523	T	C	0.052	0.011	4.56E-06	16061
family.Methanobacteriaceae.id.121	rs62241845	T	A	-0.195	0.042	4.55E-06	3383
family.Methanobacteriaceae.id.121	rs62241844	G	C	-0.195	0.042	4.55E-06	3383
family.FamilyXIII.id.1957	rs7674904	G	C	-0.050	0.011	4.55E-06	16717
family.Verrucomicrobiaceae.id.4036	rs59317921	C	T	0.063	0.014	4.55E-06	11793
family.Clostridiaceae1.id.1869	rs12341505	A	G	0.081	0.018	4.54E-06	14250
family.unknownfamily.id.1000006161	rs1135727	A	G	0.091	0.020	4.54E-06	5107
family.Methanobacteriaceae.id.121	rs7635580	G	A	-0.193	0.042	4.53E-06	3385
family.Veillonellaceae.id.2172	rs12186441	A	G	0.208	0.045	4.53E-06	5236
family.Rikenellaceae.id.967	rs36125440	C	T	-0.098	0.021	4.53E-06	17546
family.Enterobacteriaceae.id.3469	rs2374342	A	C	0.058	0.013	4.52E-06	13577
family.Oxalobacteraceae.id.2966	rs11246212	C	T	0.136	0.029	4.51E-06	5130
family.Veillonellaceae.id.2172	rs1442060	A	G	-0.051	0.011	4.51E-06	15976
family.Veillonellaceae.id.2172	rs4797169	C	T	0.059	0.013	4.49E-06	15974
family.Methanobacteriaceae.id.121	rs56001610	G	A	-0.195	0.042	4.49E-06	3383

family.Enterobacteriaceae.id.3469	rs6069871	G	A	0.060	0.013	4.49E-06	13515
family.Desulfovibrionaceae.id.3169	rs9928243	A	C	-0.054	0.012	4.48E-06	15141
family.FamilyXI.id.1936	rs56205120	C	T	-0.171	0.037	4.48E-06	3155
family.Alcaligenaceae.id.2875	rs9964679	G	A	0.054	0.012	4.47E-06	16810
family.Porphyrmonadaceae.id.943	rs17140890	T	C	0.071	0.015	4.47E-06	18028
family.Bifidobacteriaceae.id.433	rs77096272	C	A	0.076	0.016	4.47E-06	14914
family.Actinomycetaceae.id.421	rs2110087	G	A	0.079	0.017	4.47E-06	7710
family.Lactobacillaceae.id.1836	rs768252	G	T	-0.078	0.017	4.47E-06	7059
family.FamilyXIII.id.1957	rs476048	A	C	0.059	0.013	4.46E-06	16737
family.Bifidobacteriaceae.id.433	rs1592	A	C	0.055	0.012	4.46E-06	14915
family.Bifidobacteriaceae.id.433	rs309158	A	G	0.071	0.015	4.45E-06	14915
family.Bifidobacteriaceae.id.433	rs4954556	G	A	0.114	0.026	4.45E-06	8717
family.Bifidobacteriaceae.id.433	rs6746633	G	A	0.096	0.020	4.44E-06	14915
family.Victivallaceae.id.2255	rs185249	G	A	0.119	0.026	4.42E-06	3915
family.Lactobacillaceae.id.1836	rs7399658	A	G	-0.105	0.022	4.42E-06	6707
family.ClostridialesvadinBB60group.id.11286	rs12520828	G	A	-0.115	0.024	4.41E-06	10512
family.Victivallaceae.id.2255	rs33892	G	A	0.121	0.026	4.41E-06	3917
family.Peptostreptococcaceae.id.2042	rs12640117	C	T	0.057	0.012	4.40E-06	16054
family.Bifidobacteriaceae.id.433	rs6728946	C	G	0.073	0.016	4.39E-06	14915
family.Alcaligenaceae.id.2875	rs35945722	G	A	0.063	0.014	4.39E-06	16692
family.Pasteurellaceae.id.3689	rs35509	A	G	0.122	0.027	4.39E-06	8671
family.Streptococcaceae.id.1850	rs7970539	T	C	-0.084	0.018	4.39E-06	15958
family.Rhodospirillaceae.id.2717	rs17793087	T	C	0.073	0.016	4.38E-06	8500
family.ClostridialesvadinBB60group.id.11286	rs13409132	G	A	-0.165	0.035	4.37E-06	5913
family.Acidaminococcaceae.id.2166	rs3000667	G	A	-0.064	0.014	4.37E-06	12524
family.Peptococcaceae.id.2024	rs6558812	G	A	0.088	0.019	4.35E-06	10717
family.Alcaligenaceae.id.2875	rs67553427	T	A	0.069	0.015	4.35E-06	15886
family.Bifidobacteriaceae.id.433	rs4245838	C	T	0.105	0.023	4.34E-06	10039
family.Alcaligenaceae.id.2875	rs7330191	C	T	-0.051	0.011	4.34E-06	16799
family.Rhodospirillaceae.id.2717	rs34142542	C	T	0.073	0.016	4.33E-06	8500
family.Desulfovibrionaceae.id.3169	rs55640204	A	G	-0.093	0.020	4.33E-06	15037

family.Streptococcaceae.id.1850	rs2952184	T	C	-0.070	0.015	4.31E-06	16627
family.Rikenellaceae.id.967	rs2833282	A	G	0.071	0.016	4.31E-06	17680
family.Porphyromonadaceae.id.943	rs10858364	T	G	0.055	0.012	4.31E-06	18028
family.Victivallaceae.id.2255	rs12703879	G	A	0.117	0.026	4.31E-06	3882
family.Victivallaceae.id.2255	rs1895248	T	A	0.120	0.026	4.31E-06	3916
family.Bifidobacteriaceae.id.433	rs59213715	A	C	0.075	0.016	4.30E-06	14915
family.Pasteurellaceae.id.3689	rs10965428	A	C	-0.120	0.026	4.29E-06	8873
family.Porphyromonadaceae.id.943	rs12486680	C	A	0.098	0.022	4.29E-06	17108
family.Bifidobacteriaceae.id.433	rs479980	A	C	-0.056	0.012	4.29E-06	14146
family.Bifidobacteriaceae.id.433	rs73958618	A	G	0.069	0.015	4.27E-06	14915
family.Verrucomicrobiaceae.id.4036	rs6832927	C	A	0.108	0.024	4.27E-06	11216
family.Lachnospiraceae.id.1987	rs1986141	G	A	-0.054	0.012	4.27E-06	18328
family.Bifidobacteriaceae.id.433	rs3098103	T	C	0.076	0.016	4.27E-06	14915
family.Streptococcaceae.id.1850	rs2975654	G	A	-0.058	0.013	4.27E-06	16627
family.Lachnospiraceae.id.1987	rs11139361	C	T	0.049	0.011	4.26E-06	18333
family.Bifidobacteriaceae.id.433	rs7570283	T	C	0.092	0.019	4.26E-06	14915
family.Streptococcaceae.id.1850	rs2370083	T	G	-0.084	0.018	4.26E-06	16516
family.Acidaminococcaceae.id.2166	rs6427992	C	G	-0.060	0.013	4.24E-06	12527
family.Peptostreptococcaceae.id.2042	rs12586021	C	T	-0.066	0.014	4.24E-06	16061
family.Alcaligenaceae.id.2875	rs7991472	T	C	-0.051	0.011	4.23E-06	16800
family.Erysipelotrichaceae.id.2149	rs4078432	T	C	-0.061	0.013	4.23E-06	17789
family.Ruminococcaceae.id.2050	rs1612733	C	T	0.109	0.024	4.22E-06	15016
family.Bifidobacteriaceae.id.433	rs11742144	G	A	0.057	0.012	4.22E-06	14915
family.Oxalobacteraceae.id.2966	rs934049	A	G	0.110	0.024	4.21E-06	4951
family.Streptococcaceae.id.1850	rs2460110	G	A	-0.051	0.011	4.19E-06	16625
family.Streptococcaceae.id.1850	rs4968752	G	A	-0.051	0.011	4.19E-06	16626
family.Streptococcaceae.id.1850	rs12370772	G	C	-0.094	0.020	4.17E-06	15960
family.Rhodospirillaceae.id.2717	rs4918686	T	G	0.072	0.016	4.16E-06	8501
family.Bifidobacteriaceae.id.433	rs4334924	G	A	0.057	0.012	4.16E-06	14910
family.Erysipelotrichaceae.id.2149	rs12357537	T	C	-0.054	0.012	4.15E-06	17789
family.Bifidobacteriaceae.id.433	rs60241067	A	T	0.062	0.013	4.15E-06	14915

family.Streptococcaceae.id.1850	rs2460109	C	T	-0.051	0.011	4.15E-06	16627
family.FamilyXI.id.1936	rs13228115	C	T	-0.173	0.037	4.14E-06	3137
family.Verrucomicrobiaceae.id.4036	rs11184341	C	G	0.066	0.014	4.14E-06	11864
family.Verrucomicrobiaceae.id.4036	rs12501826	G	C	0.067	0.014	4.14E-06	11865
family.Bifidobacteriaceae.id.433	rs6711493	A	G	0.071	0.015	4.13E-06	14915
family.Bifidobacteriaceae.id.433	rs62181700	A	G	-0.060	0.013	4.12E-06	14911
family.Christensenellaceae.id.1866	rs892686	G	A	0.051	0.011	4.12E-06	16847
family.Rhodospirillaceae.id.2717	rs11818728	C	T	0.073	0.016	4.12E-06	8497
family.Prevotellaceae.id.960	rs12142231	A	G	-0.076	0.016	4.12E-06	14769
family.Porphyrmonadaceae.id.943	rs9580476	T	C	-0.110	0.024	4.11E-06	12580
family.ClostridialesvadinBB60group.id.11286	rs72840348	T	C	0.128	0.027	4.11E-06	10199
family.Bifidobacteriaceae.id.433	rs309166	C	T	0.072	0.016	4.11E-06	14915
family.Bifidobacteriaceae.id.433	rs10180515	T	A	0.063	0.014	4.10E-06	14915
family.Streptococcaceae.id.1850	rs2952189	C	T	-0.070	0.015	4.09E-06	16627
family.Bifidobacteriaceae.id.433	rs7574366	G	A	0.096	0.020	4.08E-06	14915
family.Erysipelotrichaceae.id.2149	rs8003149	T	C	0.054	0.012	4.08E-06	18213
family.Bifidobacteriaceae.id.433	rs150183636	C	T	0.096	0.020	4.08E-06	14915
family.Victivallaceae.id.2255	rs11671100	C	A	-0.160	0.035	4.08E-06	3331
family.Actinomycetaceae.id.421	rs6488662	T	C	0.081	0.018	4.08E-06	7710
family.Bifidobacteriaceae.id.433	rs6880820	T	C	0.064	0.014	4.07E-06	14795
family.Lachnospiraceae.id.1987	rs62078074	A	G	0.054	0.012	4.05E-06	17512
family.Victivallaceae.id.2255	rs253712	G	A	0.120	0.026	4.05E-06	3916
family.Bifidobacteriaceae.id.433	rs57243841	A	G	0.065	0.014	4.05E-06	14795
family.FamilyXIII.id.1957	rs3098182	T	G	0.051	0.011	4.04E-06	16731
family.Erysipelotrichaceae.id.2149	rs4617508	T	A	-0.053	0.011	4.04E-06	18197
family.Streptococcaceae.id.1850	rs9904474	T	G	-0.051	0.011	4.04E-06	16623
family.Peptostreptococcaceae.id.2042	rs10805326	A	G	0.057	0.012	4.03E-06	16061
family.Erysipelotrichaceae.id.2149	rs7911287	G	T	-0.053	0.011	4.03E-06	18198
family.Oxalobacteraceae.id.2966	rs58167057	G	A	-0.131	0.028	4.03E-06	4997
family.Victivallaceae.id.2255	rs2194089	C	T	0.117	0.025	4.03E-06	3915
family.Bifidobacteriaceae.id.433	rs12464050	G	T	0.076	0.016	4.03E-06	14914

family.FamilyXI.id.1936	rs34155035	T	C	-0.139	0.030	4.02E-06	3155
family.Prevotellaceae.id.960	rs11151191	T	C	-0.079	0.017	4.02E-06	14062
family.Rhodospirillaceae.id.2717	rs71498364	C	T	0.073	0.016	4.02E-06	8486
family.Pasteurellaceae.id.3689	rs35510	G	A	0.123	0.026	4.02E-06	8671
family.Erysipelotrichaceae.id.2149	rs7095708	T	C	-0.053	0.011	4.01E-06	18197
family.Bifidobacteriaceae.id.433	rs2176716	C	T	0.063	0.014	4.01E-06	14915
family.Peptostreptococcaceae.id.2042	rs4142197	C	G	-0.066	0.014	4.01E-06	16059
family.Rikenellaceae.id.967	rs9578457	A	G	-0.141	0.032	3.99E-06	9400
family.unknownfamily.id.1000006161	rs7006687	T	C	-0.092	0.020	3.99E-06	5107
family.Streptococcaceae.id.1850	rs2952258	C	T	-0.058	0.013	3.98E-06	16623
family.Rikenellaceae.id.967	rs11841382	T	G	0.080	0.018	3.98E-06	17680
family.ClostridialesvadinBB60group.id.11286	rs7220068	A	T	0.127	0.027	3.97E-06	10199
family.FamilyXI.id.1936	rs17379710	C	T	-0.116	0.025	3.97E-06	3156
family.Streptococcaceae.id.1850	rs2052119	G	A	-0.051	0.011	3.97E-06	16626
family.ClostridialesvadinBB60group.id.11286	rs6503944	A	G	0.127	0.027	3.97E-06	10199
family.Peptostreptococcaceae.id.2042	rs2328994	C	T	-0.065	0.014	3.97E-06	16061
family.Verrucomicrobiaceae.id.4036	rs12498518	C	T	0.067	0.014	3.96E-06	11865
family.Lachnospiraceae.id.1987	rs4731702	C	T	-0.048	0.011	3.96E-06	18338
family.Victivallaceae.id.2255	rs56311698	G	T	-0.195	0.043	3.96E-06	3917
family.ClostridialesvadinBB60group.id.11286	rs7725895	G	A	-0.116	0.024	3.94E-06	10512
family.Ruminococcaceae.id.2050	rs4347804	G	A	0.158	0.035	3.94E-06	4518
family.Victivallaceae.id.2255	rs7131017	G	A	-0.134	0.028	3.93E-06	3917
family.Rhodospirillaceae.id.2717	rs16855133	A	G	0.115	0.025	3.93E-06	8491
family.FamilyXIII.id.1957	rs7514702	C	T	-0.066	0.014	3.92E-06	16737
family.Lactobacillaceae.id.1836	rs1590596	G	C	-0.104	0.022	3.90E-06	6750
family.Erysipelotrichaceae.id.2149	rs55764236	T	G	-0.054	0.012	3.89E-06	17789
family.Streptococcaceae.id.1850	rs9989494	G	A	-0.051	0.011	3.89E-06	16626
family.Alcaligenaceae.id.2875	rs6969323	C	A	-0.059	0.013	3.89E-06	16810
family.Coribacteriaceae.id.811	rs34739816	T	G	0.097	0.021	3.88E-06	16593
family.Peptostreptococcaceae.id.2042	rs1098907	A	T	0.052	0.011	3.88E-06	16060
family.Bifidobacteriaceae.id.433	rs7589832	A	C	0.070	0.015	3.88E-06	14915

family.Bifidobacteriaceae.id.433	rs41269821	A	G	0.074	0.016	3.87E-06	14909
family.Alcaligenaceae.id.2875	rs72982722	C	T	0.131	0.028	3.85E-06	11656
family.Bifidobacteriaceae.id.433	rs11684458	A	G	0.063	0.014	3.84E-06	14915
family.Bifidobacteriaceae.id.433	rs857444	T	C	0.055	0.012	3.82E-06	14914
family.Desulfovibrionaceae.id.3169	rs2838334	A	G	0.057	0.012	3.82E-06	15142
family.Clostridiaceae1.id.1869	rs2795528	A	G	-0.181	0.039	3.81E-06	6411
family.Peptostreptococcaceae.id.2042	rs1981301	G	A	-0.067	0.014	3.80E-06	16061
family.Rhodospirillaceae.id.2717	rs56752332	G	T	-0.090	0.020	3.80E-06	8493
family.Streptococcaceae.id.1850	rs11110070	G	A	-0.083	0.018	3.80E-06	15958
family.Veillonellaceae.id.2172	rs7324328	C	T	0.094	0.020	3.79E-06	15170
family.Rhodospirillaceae.id.2717	rs11599418	T	C	0.073	0.016	3.79E-06	8500
family.Streptococcaceae.id.1850	rs12367581	T	A	-0.094	0.020	3.77E-06	15960
family.Streptococcaceae.id.1850	rs6601443	G	A	-0.062	0.014	3.76E-06	16620
family.Ruminococcaceae.id.2050	rs11690053	T	C	0.160	0.035	3.76E-06	4140
family.Erysipelotrichaceae.id.2149	rs9877119	G	A	0.049	0.011	3.74E-06	18217
family.Veillonellaceae.id.2172	rs4461038	G	A	-0.055	0.012	3.73E-06	15973
family.Verrucomicrobiaceae.id.4036	rs111862613	C	T	0.091	0.020	3.73E-06	11621
family.Bifidobacteriaceae.id.433	rs7588568	C	A	-0.061	0.013	3.73E-06	14913
family.Verrucomicrobiaceae.id.4036	rs77055143	C	T	0.067	0.014	3.73E-06	11865
family.Streptococcaceae.id.1850	rs10028567	T	C	-0.093	0.019	3.72E-06	16549
family.FamilyXIII.id.1957	rs482905	T	G	0.060	0.013	3.72E-06	16737
family.Christensenellaceae.id.1866	rs5763231	T	C	-0.068	0.015	3.72E-06	16183
family.Streptococcaceae.id.1850	rs77558518	G	A	-0.104	0.023	3.72E-06	15161
family.Bifidobacteriaceae.id.433	rs79954860	A	T	0.112	0.024	3.72E-06	12180
family.ClostridialesvadinBB60group.id.11286	rs8070466	C	T	0.128	0.027	3.71E-06	10199
family.Streptococcaceae.id.1850	rs111923753	C	T	-0.085	0.018	3.71E-06	15849
family.BacteroidalesS24.7group.id.11173	rs601978	A	T	0.083	0.018	3.71E-06	7953
family.FamilyXI.id.1936	rs3733512	G	C	0.128	0.027	3.70E-06	3156
family.Lachnospiraceae.id.1987	rs2159863	G	A	-0.059	0.013	3.70E-06	18340
family.Veillonellaceae.id.2172	rs17263892	C	A	0.099	0.021	3.69E-06	15060
family.Lachnospiraceae.id.1987	rs28578977	A	G	-0.113	0.025	3.68E-06	15866

family.Streptococcaceae.id.1850	rs9916518	C	T	-0.051	0.011	3.67E-06	16627
family.Bifidobacteriaceae.id.433	rs621341	C	T	-0.055	0.012	3.67E-06	14150
family.Enterobacteriaceae.id.3469	rs111229068	T	A	0.111	0.024	3.65E-06	12350
family.Rikenellaceae.id.967	rs2044028	C	G	-0.050	0.011	3.65E-06	17676
family.Actinomycetaceae.id.421	rs2889192	T	G	0.089	0.020	3.64E-06	7710
family.Rikenellaceae.id.967	rs67281112	C	G	0.064	0.014	3.63E-06	17199
family.Rikenellaceae.id.967	rs7994129	G	A	0.075	0.017	3.63E-06	17677
family.Erysipelotrichaceae.id.2149	rs9859260	T	C	0.049	0.011	3.63E-06	18217
family.unknownfamily.id.1000001214	rs73074665	T	A	0.165	0.036	3.62E-06	5749
family.Rikenellaceae.id.967	rs74474130	G	T	0.138	0.030	3.61E-06	11055
family.Lactobacillaceae.id.1836	rs768253	G	T	-0.079	0.017	3.61E-06	7059
family.Bifidobacteriaceae.id.433	rs7593370	C	T	0.054	0.012	3.60E-06	14915
family.Methanobacteriaceae.id.121	rs9942109	G	A	-0.197	0.042	3.60E-06	3383
family.Victivallaceae.id.2255	rs1363429	G	T	0.118	0.025	3.60E-06	3909
family.Bifidobacteriaceae.id.433	rs309120	G	C	0.072	0.016	3.59E-06	14915
family.Peptococcaceae.id.2024	rs7009013	T	C	0.088	0.019	3.59E-06	10717
family.ClostridialesvadinBB60group.id.11286	rs7226487	G	A	-0.064	0.014	3.58E-06	10505
family.Alcaligenaceae.id.2875	rs112159068	T	A	0.131	0.028	3.56E-06	11656
family.Prevothellaceae.id.960	rs2206481	C	A	-0.054	0.012	3.56E-06	14808
family.FamilyXI.id.1936	rs35293957	G	A	-0.169	0.036	3.54E-06	3155
family.Alcaligenaceae.id.2875	rs113310015	C	T	0.070	0.015	3.54E-06	15886
family.Streptococcaceae.id.1850	rs2975647	G	A	-0.058	0.013	3.53E-06	16623
family.Bifidobacteriaceae.id.433	rs3814358	A	C	0.054	0.012	3.52E-06	14915
family.Ruminococcaceae.id.2050	rs56697967	A	G	0.080	0.017	3.52E-06	18334
family.Ruminococcaceae.id.2050	rs10172096	G	A	0.160	0.035	3.51E-06	4140
family.Verrucomicrobiaceae.id.4036	rs12416161	C	T	0.076	0.017	3.51E-06	11864
family.Bifidobacteriaceae.id.433	rs309159	C	T	0.073	0.016	3.51E-06	14915
family.Ruminococcaceae.id.2050	rs10172224	C	A	0.160	0.035	3.49E-06	4140
family.Bifidobacteriaceae.id.433	rs56302516	C	T	0.062	0.013	3.49E-06	14795
family.Bifidobacteriaceae.id.433	rs4954555	T	C	0.107	0.023	3.48E-06	10039
family.Oxalobacteraceae.id.2966	rs73733956	G	A	-0.131	0.028	3.48E-06	4997

family.Verrucomicrobiaceae.id.4036	rs6832119	A	G	0.109	0.024	3.47E-06	11216
family.Porphyrimonadaceae.id.943	rs2675411	G	A	0.057	0.012	3.45E-06	18028
family.Streptococcaceae.id.1850	rs2975649	C	T	-0.058	0.013	3.44E-06	16617
family.Pasteurellaceae.id.3689	rs6092684	T	A	0.068	0.015	3.44E-06	9366
family.ClostridialesvadinBB60group.id.11286	rs118104867	T	C	0.214	0.046	3.44E-06	4095
family.Peptostreptococcaceae.id.2042	rs57768785	G	A	0.058	0.012	3.44E-06	16053
family.Enterobacteriaceae.id.3469	rs73280755	A	G	0.060	0.013	3.43E-06	13515
family.Methanobacteriaceae.id.121	rs58106718	A	T	-0.193	0.041	3.43E-06	3385
family.ClostridialesvadinBB60group.id.11286	rs8082356	G	T	0.131	0.027	3.42E-06	10099
family.Bacteroidaceae.id.917	rs495004	G	C	-0.061	0.013	3.42E-06	17707
family.Streptococcaceae.id.1850	rs7818437	T	C	-0.061	0.013	3.42E-06	16615
family.Defluviitaleaceae.id.1924	rs9725395	G	A	-0.138	0.030	3.41E-06	8031
family.Pasteurellaceae.id.3689	rs55676407	A	G	0.134	0.029	3.41E-06	8020
family.Peptococcaceae.id.2024	rs75430375	T	C	-0.148	0.032	3.41E-06	8375
family.Erysipelotrichaceae.id.2149	rs11718657	A	C	0.050	0.011	3.40E-06	18217
family.Erysipelotrichaceae.id.2149	rs11185506	C	G	0.050	0.011	3.40E-06	18217
family.Bifidobacteriaceae.id.433	rs16832205	G	A	0.076	0.016	3.40E-06	14915
family.BacteroidalesS24.7group.id.11173	rs17043487	T	G	-0.163	0.035	3.39E-06	5306
family.Peptostreptococcaceae.id.2042	rs4557228	C	T	0.058	0.012	3.39E-06	16054
family.ClostridialesvadinBB60group.id.11286	rs2215602	T	G	0.074	0.016	3.39E-06	10512
family.FamilyXI.id.1936	rs3733511	G	A	0.128	0.027	3.39E-06	3156
family.Alcaligenaceae.id.2875	rs6087811	G	T	-0.093	0.020	3.37E-06	15868
family.Pasteurellaceae.id.3689	rs72756943	A	G	0.140	0.030	3.35E-06	8020
family.Alcaligenaceae.id.2875	rs62395635	C	T	0.111	0.024	3.35E-06	14802
family.ClostridialesvadinBB60group.id.11286	rs12612757	T	C	0.074	0.016	3.34E-06	10438
family.Alcaligenaceae.id.2875	rs7302582	C	G	-0.107	0.023	3.34E-06	15113
family.Oxalobacteraceae.id.2966	rs73733958	G	T	-0.132	0.028	3.33E-06	4997
family.Christensenellaceae.id.1866	rs9608766	C	T	-0.068	0.015	3.33E-06	16185
family.Methanobacteriaceae.id.121	rs62240380	C	T	-0.193	0.041	3.32E-06	3385
family.Streptococcaceae.id.1850	rs74476543	G	A	-0.095	0.020	3.32E-06	15960
family.Bifidobacteriaceae.id.433	rs111682961	C	T	0.077	0.016	3.32E-06	14914

family.Alcaligenaceae.id.2875	rs7593823	G	A	0.061	0.013	3.31E-06	16810
family.Acidaminococcaceae.id.2166	rs3012351	C	T	-0.065	0.014	3.31E-06	12528
family.Erysipelotrichaceae.id.2149	rs3761717	C	G	0.050	0.011	3.30E-06	18217
family.Porphyromonadaceae.id.943	rs13221186	G	C	0.088	0.019	3.28E-06	18023
family.BacteroidalesS24.7group.id.11173	rs17280811	A	C	0.081	0.017	3.28E-06	7951
family.Enterobacteriaceae.id.3469	rs6092361	G	A	0.060	0.013	3.27E-06	13518
family.Acidaminococcaceae.id.2166	rs262812	C	T	-0.066	0.014	3.25E-06	12099
family.Peptostreptococcaceae.id.2042	rs76982728	C	T	0.124	0.027	3.24E-06	11185
family.Victivallaceae.id.2255	rs67832247	T	C	-0.123	0.027	3.24E-06	3555
family.Bifidobacteriaceae.id.433	rs79826902	G	A	0.077	0.016	3.24E-06	14915
family.Streptococcaceae.id.1850	rs2952262	T	A	-0.059	0.013	3.23E-06	16624
family.ClostridialesvadinBB60group.id.11286	rs17613877	G	C	0.074	0.016	3.23E-06	10438
family.Bifidobacteriaceae.id.433	rs6743537	G	A	0.075	0.016	3.22E-06	14915
family.Bifidobacteriaceae.id.433	rs6430549	A	G	0.055	0.012	3.22E-06	14915
family.Bifidobacteriaceae.id.433	rs2053726	A	G	0.055	0.012	3.21E-06	14915
family.Streptococcaceae.id.1850	rs2447443	G	C	-0.052	0.011	3.21E-06	16627
family.Peptococcaceae.id.2024	rs61870296	G	A	0.134	0.029	3.20E-06	9761
family.Peptostreptococcaceae.id.2042	rs9565296	C	T	-0.067	0.014	3.20E-06	16059
family.Methanobacteriaceae.id.121	rs3923545	G	C	0.207	0.045	3.20E-06	3498
family.FamilyXI.id.1936	rs697771	G	A	-0.118	0.025	3.19E-06	3152
family.Bifidobacteriaceae.id.433	rs7575241	C	A	0.071	0.015	3.17E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs2302201	A	T	0.128	0.026	3.17E-06	10199
family.Peptostreptococcaceae.id.2042	rs1520207	T	C	0.053	0.011	3.17E-06	16057
family.Bifidobacteriaceae.id.433	rs6430585	C	A	0.070	0.014	3.17E-06	14915
family.Desulfovibrionaceae.id.3169	rs4506934	T	C	-0.094	0.020	3.16E-06	15035
family.Verrucomicrobiaceae.id.4036	rs2169719	A	G	0.068	0.015	3.16E-06	11859
family.Streptococcaceae.id.1850	rs11110085	C	A	-0.094	0.020	3.16E-06	15960
family.Defluviitaleaceae.id.1924	rs73217031	C	T	0.170	0.036	3.15E-06	6676
family.Peptococcaceae.id.2024	rs117452796	G	A	-0.258	0.055	3.15E-06	3161
family.Streptococcaceae.id.1850	rs2952257	T	C	-0.058	0.013	3.15E-06	16623
family.Streptococcaceae.id.1850	rs10860564	T	C	-0.095	0.020	3.14E-06	15960

family.BacteroidalesS24.7group.id.11173	rs803053	T	A	0.081	0.017	3.13E-06	7778
family.Enterobacteriaceae.id.3469	rs62210023	G	A	0.061	0.013	3.13E-06	13515
family.Rhodospirillaceae.id.2717	rs4278423	C	T	0.108	0.024	3.12E-06	8501
family.ClostridialesvadinBB60group.id.11286	rs6503943	G	T	0.128	0.026	3.10E-06	10199
family.Prevothaceae.id.960	rs77380553	G	A	-0.077	0.017	3.09E-06	13954
family.Bifidobacteriaceae.id.433	rs16832243	C	T	0.077	0.016	3.09E-06	14915
family.Streptococcaceae.id.1850	rs76717940	A	T	0.151	0.033	3.09E-06	7720
family.Bifidobacteriaceae.id.433	rs10174462	C	G	0.071	0.015	3.08E-06	14915
family.Victivallaceae.id.2255	rs61702987	C	T	0.146	0.030	3.08E-06	3906
family.FamilyXI.id.1936	rs112933391	G	A	-0.175	0.037	3.08E-06	3136
family.Streptococcaceae.id.1850	rs11110096	A	G	-0.094	0.020	3.07E-06	15960
family.Methanobacteriaceae.id.121	rs62240388	A	G	-0.196	0.042	3.06E-06	3342
family.Rhodospirillaceae.id.2717	rs7098347	A	G	0.073	0.016	3.06E-06	8501
family.Erysipelotrichaceae.id.2149	rs13072608	T	C	0.050	0.011	3.05E-06	18217
family.Lachnospiraceae.id.1987	rs56077123	C	A	0.055	0.012	3.05E-06	17521
family.Oxalobacteraceae.id.2966	rs10780692	T	C	0.094	0.020	3.02E-06	5167
family.ClostridialesvadinBB60group.id.11286	rs10515176	T	C	0.128	0.026	3.02E-06	10198
family.Lachnospiraceae.id.1987	rs79086868	C	T	0.078	0.016	3.01E-06	17522
family.Streptococcaceae.id.1850	rs11110086	G	A	-0.095	0.020	3.01E-06	15960
family.Peptostreptococcaceae.id.2042	rs17747079	A	G	-0.066	0.014	3.00E-06	16054
family.FamilyXI.id.1936	rs55893383	C	T	-0.175	0.037	3.00E-06	3136
family.Streptococcaceae.id.1850	rs11110098	G	A	-0.092	0.019	2.99E-06	15956
family.Methanobacteriaceae.id.121	rs6541968	T	C	-0.111	0.024	2.96E-06	3698
family.Streptococcaceae.id.1850	rs2120255	C	A	-0.052	0.011	2.95E-06	16627
family.Verrucomicrobiaceae.id.4036	rs11252894	C	A	0.077	0.017	2.95E-06	11864
family.Victivallaceae.id.2255	rs2944279	G	A	-0.120	0.026	2.95E-06	3555
family.Bifidobacteriaceae.id.433	rs7569447	A	C	0.077	0.017	2.95E-06	14915
family.Victivallaceae.id.2255	rs58593843	G	A	-0.187	0.041	2.94E-06	3917
family.Bifidobacteriaceae.id.433	rs721765	C	A	0.077	0.016	2.94E-06	14915
family.Peptostreptococcaceae.id.2042	rs4747289	A	G	0.065	0.014	2.94E-06	16061
family.Bifidobacteriaceae.id.433	rs1446523	G	A	0.055	0.012	2.94E-06	14915

family.Streptococcaceae.id.1850	rs11110084	G	A	-0.087	0.019	2.94E-06	15850
family.Bifidobacteriaceae.id.433	rs79769806	A	G	-0.086	0.018	2.93E-06	13923
family.Verrucomicrobiaceae.id.4036	rs117107102	G	A	0.205	0.043	2.92E-06	4975
family.Porphyromonadaceae.id.943	rs1029811	G	T	0.067	0.015	2.91E-06	18026
family.Lachnospiraceae.id.1987	rs13233731	G	A	-0.049	0.011	2.91E-06	18340
family.Rikenellaceae.id.967	rs9712594	A	C	-0.084	0.018	2.90E-06	17086
family.Streptococcaceae.id.1850	rs114279530	G	A	-0.083	0.018	2.89E-06	15850
family.Peptostreptococcaceae.id.2042	rs4328317	T	G	-0.067	0.014	2.89E-06	16059
family.Bifidobacteriaceae.id.433	rs10496738	C	T	0.077	0.016	2.89E-06	14915
family.Rhodospirillaceae.id.2717	rs55876211	T	C	-0.091	0.020	2.87E-06	8494
family.Victivallaceae.id.2255	rs333893	A	G	0.123	0.026	2.86E-06	3917
family.Alcaligenaceae.id.2875	rs7270486	C	A	0.069	0.015	2.86E-06	15996
family.Rikenellaceae.id.967	rs77885767	T	C	-0.156	0.034	2.85E-06	8478
family.Methanobacteriaceae.id.121	rs62241836	C	T	-0.199	0.042	2.84E-06	3383
family.Victivallaceae.id.2255	rs7077363	A	G	0.149	0.032	2.83E-06	3912
family.Peptostreptococcaceae.id.2042	rs1963247	G	T	-0.053	0.011	2.83E-06	15505
family.Alcaligenaceae.id.2875	rs59349789	A	T	-0.059	0.013	2.82E-06	16377
family.Erysipelotrichaceae.id.2149	rs2300773	A	G	0.050	0.011	2.82E-06	18216
family.Desulfovibrionaceae.id.3169	rs112381107	T	C	0.211	0.046	2.82E-06	4455
family.ClostridialesvadinBB60group.id.11286	rs2894671	C	T	0.074	0.016	2.81E-06	10510
family.Bifidobacteriaceae.id.433	rs12469411	C	T	0.055	0.012	2.81E-06	14915
family.Bifidobacteriaceae.id.433	rs309170	C	T	0.073	0.016	2.80E-06	14915
family.Peptostreptococcaceae.id.2042	rs117644882	C	T	0.178	0.038	2.80E-06	6629
family.ClostridialesvadinBB60group.id.11286	rs13020025	A	G	0.075	0.016	2.79E-06	10438
family.Erysipelotrichaceae.id.2149	rs17530232	G	A	0.103	0.022	2.79E-06	16622
family.Preteotellaceae.id.960	rs4685827	C	T	-0.068	0.015	2.77E-06	14867
family.Preteotellaceae.id.960	rs11151195	A	G	-0.081	0.017	2.77E-06	14062
family.Rikenellaceae.id.967	rs62532512	A	C	-0.050	0.011	2.76E-06	17672
family.Rhodospirillaceae.id.2717	rs55661963	A	C	0.133	0.029	2.76E-06	8497
family.Peptococcaceae.id.2024	rs61870295	A	G	0.134	0.029	2.76E-06	9761
family.Verrucomicrobiaceae.id.4036	rs4242783	A	G	0.069	0.015	2.75E-06	11690

family.Methanobacteriaceae.id.121	rs62240373	G	A	-0.199	0.042	2.75E-06	3383
family.Defluviitaleaceae.id.1924	rs112893842	C	T	0.111	0.023	2.75E-06	8203
family.Rhodospirillaceae.id.2717	rs4531902	T	C	0.117	0.025	2.74E-06	8498
family.Oxalobacteraceae.id.2966	rs77722911	C	A	-0.133	0.028	2.74E-06	4997
family.Peptostreptococcaceae.id.2042	rs76762387	G	T	0.175	0.037	2.73E-06	6768
family.Bifidobacteriaceae.id.433	rs1374291	T	C	0.055	0.012	2.73E-06	14915
family.Bifidobacteriaceae.id.433	rs2197579	C	T	0.055	0.012	2.72E-06	14915
family.Rikenellaceae.id.967	rs34733323	G	A	-0.100	0.021	2.71E-06	17545
family.Alcaligenaceae.id.2875	rs7638039	C	T	0.060	0.013	2.70E-06	16791
family.Streptococcaceae.id.1850	rs67455183	T	G	-0.075	0.016	2.70E-06	16623
family.Erysipelotrichaceae.id.2149	rs9859401	A	C	0.050	0.011	2.70E-06	18217
family.FamilyXI.id.1936	rs11547158	G	A	-0.178	0.037	2.70E-06	3133
family.Peptostreptococcaceae.id.2042	rs59987323	T	C	-0.054	0.011	2.70E-06	15584
family.Verrucomicrobiaceae.id.4036	rs2602429	T	C	0.075	0.016	2.70E-06	11690
family.Peptococcaceae.id.2024	rs7837830	A	G	0.089	0.019	2.70E-06	10718
family.FamilyXIII.id.1957	rs13142827	C	T	-0.063	0.014	2.69E-06	16269
family.Oxalobacteraceae.id.2966	rs75858443	C	T	-0.133	0.028	2.69E-06	4995
family.Lachnospiraceae.id.1987	rs11755180	G	C	-0.049	0.010	2.69E-06	18333
family.Bacteroidaceae.id.917	rs17619981	G	T	0.088	0.019	2.69E-06	15801
family.Streptococcaceae.id.1850	rs11248956	T	C	0.060	0.013	2.68E-06	16627
family.Rhodospirillaceae.id.2717	rs11591293	T	G	0.074	0.016	2.67E-06	8500
family.Bifidobacteriaceae.id.433	rs309161	G	A	0.074	0.016	2.67E-06	14915
family.Streptococcaceae.id.1850	rs2447442	C	T	-0.052	0.011	2.65E-06	16627
family.Streptococcaceae.id.1850	rs11110252	G	A	-0.096	0.020	2.64E-06	15960
family.Streptococcaceae.id.1850	rs35344081	A	G	0.061	0.013	2.64E-06	16624
family.Acidaminococcaceae.id.2166	rs6924018	C	A	-0.079	0.017	2.63E-06	11906
family.Bifidobacteriaceae.id.433	rs2053727	C	T	0.055	0.012	2.62E-06	14915
family.Bifidobacteriaceae.id.433	rs6430555	A	C	0.055	0.012	2.62E-06	14915
family.Bifidobacteriaceae.id.433	rs112396243	C	T	0.077	0.016	2.60E-06	14915
family.Lactobacillaceae.id.1836	rs11674854	T	C	-0.083	0.018	2.60E-06	6750
family.BacteroidalesS24.7group.id.11173	rs12748533	T	G	-0.082	0.017	2.59E-06	7948

family.Prevotellaceae.id.960	rs9586501	A	G	0.059	0.013	2.59E-06	14868
family.Lachnospiraceae.id.1987	rs13230111	A	G	-0.049	0.011	2.58E-06	18340
family.Veillonellaceae.id.2172	rs12668619	G	A	0.055	0.012	2.57E-06	15971
family.Methanobacteriaceae.id.121	rs9594530	T	C	0.210	0.045	2.55E-06	3498
family.Prevotellaceae.id.960	rs11151192	G	T	-0.081	0.017	2.54E-06	14062
family.FamilyXIII.id.1957	rs1999289	T	A	-0.064	0.014	2.54E-06	16269
family.Methanobacteriaceae.id.121	rs56209241	G	A	-0.202	0.042	2.53E-06	3340
family.Verrucomicrobiaceae.id.4036	rs9349825	G	A	-0.070	0.015	2.51E-06	11858
family.Bifidobacteriaceae.id.433	rs12476127	A	G	0.076	0.016	2.51E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs2191834	T	G	0.075	0.016	2.50E-06	10511
family.Desulfovibrionaceae.id.3169	rs11599763	C	T	-0.056	0.012	2.50E-06	15142
family.Verrucomicrobiaceae.id.4036	rs1491244	A	T	0.111	0.024	2.49E-06	11216
family.Bifidobacteriaceae.id.433	rs11745923	T	G	0.058	0.012	2.49E-06	14914
family.Peptostreptococcaceae.id.2042	rs75819860	A	T	0.126	0.027	2.49E-06	11697
family.Streptococcaceae.id.1850	rs79222628	G	A	-0.087	0.019	2.49E-06	15850
family.Streptococcaceae.id.1850	rs2440137	T	C	-0.052	0.011	2.48E-06	16624
family.Bifidobacteriaceae.id.433	rs12474975	A	T	0.077	0.016	2.48E-06	14915
family.BacteroidalesS24.7group.id.11173	rs12438801	A	G	0.082	0.017	2.47E-06	7950
family.Bifidobacteriaceae.id.433	rs60902646	T	C	0.095	0.020	2.47E-06	14915
family.Victivallaceae.id.2255	rs72960932	G	A	-0.193	0.042	2.47E-06	3917
family.Victivallaceae.id.2255	rs1363428	A	G	0.122	0.026	2.47E-06	3917
family.Bifidobacteriaceae.id.433	rs41389446	G	T	-0.087	0.018	2.47E-06	13923
family.Lachnospiraceae.id.1987	rs35524804	C	T	-0.061	0.013	2.45E-06	17859
family.Methanobacteriaceae.id.121	rs62241834	G	T	-0.201	0.042	2.44E-06	3383
family.Porphyrimonadaceae.id.943	rs6953849	G	A	0.072	0.015	2.44E-06	18028
family.Coriobacteriaceae.id.811	rs10995776	C	T	0.082	0.017	2.44E-06	17691
family.Streptococcaceae.id.1850	rs7224098	A	G	-0.052	0.011	2.44E-06	16627
family.Methanobacteriaceae.id.121	rs4848258	A	T	-0.112	0.024	2.44E-06	3695
family.Bifidobacteriaceae.id.433	rs62168891	C	T	0.056	0.012	2.43E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs8082388	T	C	0.130	0.027	2.42E-06	10199
family.BacteroidalesS24.7group.id.11173	rs72791497	G	T	-0.173	0.035	2.42E-06	5208

family.Lachnospiraceae.id.1987	rs112040820	G	A	0.055	0.012	2.42E-06	17512
family.Victivallaceae.id.2255	rs1895249	G	T	0.122	0.026	2.42E-06	3916
family.FamilyXIII.id.1957	rs12643275	T	A	-0.055	0.012	2.42E-06	16269
family.Lachnospiraceae.id.1987	rs13234407	G	A	-0.049	0.011	2.41E-06	18340
family.Peptostreptococcaceae.id.2042	rs11616274	C	G	-0.068	0.014	2.41E-06	16058
family.BacteroidalesS24.7group.id.11173	rs1850003	G	A	0.084	0.018	2.41E-06	7952
family.Porphyrimonadaceae.id.943	rs17065781	T	G	-0.058	0.012	2.40E-06	18028
family.Desulfovibrionaceae.id.3169	rs16851319	C	G	-0.073	0.015	2.40E-06	15128
family.Bifidobacteriaceae.id.433	rs7604460	T	C	0.079	0.016	2.38E-06	14795
family.ClostridialesvadinBB60group.id.11286	rs8067650	T	C	0.130	0.026	2.37E-06	10199
family.Bifidobacteriaceae.id.433	rs177917	A	G	0.074	0.016	2.37E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs7538034	G	T	-0.079	0.017	2.37E-06	10420
family.Streptococcaceae.id.1850	rs2460111	G	A	-0.052	0.011	2.36E-06	16627
family.Bifidobacteriaceae.id.433	rs73958638	A	G	0.112	0.024	2.36E-06	11148
family.Erysipelotrichaceae.id.2149	rs9867473	C	A	0.050	0.011	2.36E-06	18089
family.Bifidobacteriaceae.id.433	rs4954191	C	G	0.055	0.012	2.34E-06	14915
family.Bifidobacteriaceae.id.433	rs309119	T	C	0.074	0.016	2.33E-06	14915
family.Victivallaceae.id.2255	rs2731834	G	C	0.124	0.026	2.33E-06	3916
family.Erysipelotrichaceae.id.2149	rs10781552	T	C	-0.055	0.012	2.33E-06	17789
family.Verrucomicrobiaceae.id.4036	rs56161035	C	T	0.068	0.014	2.33E-06	11865
family.Streptococcaceae.id.1850	rs11110092	C	T	-0.093	0.020	2.33E-06	15960
family.ClostridialesvadinBB60group.id.11286	rs16943991	G	A	0.130	0.027	2.33E-06	10199
family.Acidaminococcaceae.id.2166	rs6589457	G	A	0.166	0.035	2.32E-06	7386
family.Oxalobacteraceae.id.2966	rs4877289	G	A	0.093	0.020	2.31E-06	5168
family.Peptococcaceae.id.2024	rs150600492	C	A	0.136	0.029	2.31E-06	9761
family.FamilyXI.id.1936	rs11826840	A	G	-0.143	0.030	2.31E-06	3150
family.Rhodospirillaceae.id.2717	rs77497586	G	T	0.133	0.029	2.30E-06	8493
family.Bifidobacteriaceae.id.433	rs56230617	G	A	0.073	0.016	2.30E-06	14041
family.ClostridialesvadinBB60group.id.11286	rs9900396	C	T	0.130	0.027	2.29E-06	10199
family.Methanobacteriaceae.id.121	rs11147839	G	A	0.211	0.044	2.28E-06	3499
family.Bifidobacteriaceae.id.433	rs10841473	C	G	-0.061	0.013	2.28E-06	14914

family.Victivallaceae.id.2255	rs1603450	C	T	-0.144	0.030	2.28E-06	3917
family.Acidaminococcaceae.id.2166	rs2933324	G	A	-0.066	0.014	2.24E-06	12525
family.Streptococcaceae.id.1850	rs1120106	C	T	-0.052	0.011	2.22E-06	16624
family.Acidaminococcaceae.id.2166	rs6923842	C	T	-0.080	0.017	2.21E-06	11904
family.Porphyromonadaceae.id.943	rs3111851	G	C	0.058	0.012	2.19E-06	18024
family.Streptococcaceae.id.1850	rs2952172	T	C	-0.058	0.012	2.19E-06	16623
family.ClostridialesvadinBB60group.id.11286	rs7538333	T	C	-0.067	0.014	2.18E-06	10129
family.Bifidobacteriaceae.id.433	rs115553816	G	A	0.078	0.016	2.18E-06	14915
family.Verrucomicrobiaceae.id.4036	rs112769434	A	G	0.111	0.024	2.18E-06	11216
family.Oxalobacteraceae.id.2966	rs10780691	T	C	0.093	0.020	2.17E-06	5168
family.Bifidobacteriaceae.id.433	rs4954196	A	G	0.056	0.012	2.16E-06	14915
family.Ruminococcaceae.id.2050	rs4347803	G	A	0.162	0.035	2.15E-06	4518
family.Streptococcaceae.id.1850	rs11110294	A	G	-0.097	0.020	2.15E-06	15960
family.Verrucomicrobiaceae.id.4036	rs12908520	A	G	0.062	0.013	2.15E-06	11863
family.Bifidobacteriaceae.id.433	rs75667274	C	T	0.078	0.016	2.13E-06	14910
family.Streptococcaceae.id.1850	rs11110165	T	G	-0.081	0.017	2.13E-06	15421
family.Bacteroidaceae.id.917	rs9507307	T	C	0.060	0.013	2.13E-06	18184
family.FamilyXI.id.1936	rs7932399	G	C	-0.143	0.030	2.11E-06	3150
family.Victivallaceae.id.2255	rs253710	C	T	0.124	0.026	2.11E-06	3917
family.Porphyromonadaceae.id.943	rs10811672	A	T	-0.068	0.015	2.10E-06	18025
family.Desulfovibrionaceae.id.3169	rs17791387	G	A	-0.073	0.015	2.10E-06	15045
family.Prevotellaceae.id.960	rs148376875	G	T	0.085	0.018	2.08E-06	14289
family.Streptococcaceae.id.1850	rs57497665	C	T	-0.091	0.019	2.08E-06	15960
family.Oxalobacteraceae.id.2966	rs17543178	A	G	-0.134	0.028	2.07E-06	4997
family.Bifidobacteriaceae.id.433	rs4954197	G	A	0.056	0.012	2.07E-06	14915
family.Bifidobacteriaceae.id.433	rs16831899	G	A	0.085	0.018	2.06E-06	14915
family.Bifidobacteriaceae.id.433	rs6430550	C	T	0.055	0.012	2.05E-06	14915
family.Bifidobacteriaceae.id.433	rs62168872	C	T	0.056	0.012	2.05E-06	14915
family.Pasteurellaceae.id.3689	rs78909003	C	T	-0.241	0.050	2.05E-06	3638
family.ClostridialesvadinBB60group.id.11286	rs74692182	T	A	0.107	0.022	2.05E-06	9814
family.Bifidobacteriaceae.id.433	rs147616090	C	T	0.071	0.015	2.04E-06	14915

family.Bifidobacteriaceae.id.433	rs112407062	C	T	0.078	0.016	2.02E-06	14915
family.Bifidobacteriaceae.id.433	rs77985886	C	T	0.098	0.020	2.02E-06	14915
family.Peptococcaceae.id.2024	rs75898026	G	A	-0.082	0.017	2.02E-06	10444
family.Bifidobacteriaceae.id.433	rs12469941	C	T	0.056	0.012	2.02E-06	14915
family.Peptostreptococcaceae.id.2042	rs9573936	G	C	-0.068	0.014	2.02E-06	16060
family.Alcaligenaceae.id.2875	rs1575903	A	G	-0.052	0.011	2.01E-06	16808
family.Bifidobacteriaceae.id.433	rs6755391	C	T	0.085	0.018	2.00E-06	14915
family.Bifidobacteriaceae.id.433	rs12471781	G	A	0.079	0.016	2.00E-06	14795
family.Bifidobacteriaceae.id.433	rs766270	G	C	0.056	0.012	2.00E-06	14915
family.Rhodospirillaceae.id.2717	rs16855101	T	C	0.119	0.025	1.99E-06	8499
family.Streptococcaceae.id.1850	rs11110259	C	A	-0.097	0.020	1.99E-06	15960
family.Alcaligenaceae.id.2875	rs35329616	C	T	-0.052	0.011	1.99E-06	16808
family.Methanobacteriaceae.id.121	rs62240384	C	T	-0.198	0.041	1.99E-06	3385
family.Victivallaceae.id.2255	rs35004924	A	C	0.122	0.026	1.98E-06	3887
family.Methanobacteriaceae.id.121	rs12711690	G	A	-0.113	0.024	1.97E-06	3691
family.Alcaligenaceae.id.2875	rs7318351	A	T	-0.053	0.011	1.96E-06	16808
family.Oxalobacteraceae.id.2966	rs10746751	T	C	0.095	0.020	1.95E-06	5165
family.Alcaligenaceae.id.2875	rs1409517	A	G	-0.053	0.011	1.95E-06	16808
family.Porphyromonadaceae.id.943	rs1125465	C	T	-0.059	0.012	1.93E-06	18028
family.Rikenellaceae.id.967	rs9603191	G	A	0.075	0.016	1.91E-06	17678
family.Alcaligenaceae.id.2875	rs35781367	A	G	-0.053	0.011	1.90E-06	16810
family.Bifidobacteriaceae.id.433	rs55809728	G	A	0.106	0.023	1.90E-06	12282
family.Methanobacteriaceae.id.121	rs73031978	G	C	-0.203	0.042	1.90E-06	3340
family.Bifidobacteriaceae.id.433	rs6710892	G	A	0.085	0.018	1.90E-06	14915
family.Methanobacteriaceae.id.121	rs6784384	G	A	-0.198	0.041	1.90E-06	3385
family.Bifidobacteriaceae.id.433	rs16832440	G	A	0.079	0.016	1.90E-06	14915
family.Methanobacteriaceae.id.121	rs4848970	G	T	0.116	0.024	1.89E-06	3696
family.Bifidobacteriaceae.id.433	rs2166480	G	A	0.056	0.012	1.89E-06	14915
family.Methanobacteriaceae.id.121	rs894996	A	C	0.217	0.045	1.88E-06	3582
family.Erysipelotrichaceae.id.2149	rs9846149	G	C	0.051	0.011	1.87E-06	18216
family.Erysipelotrichaceae.id.2149	rs9863872	G	T	0.051	0.011	1.87E-06	18216

family.Methanobacteriaceae.id.121	rs73457427	G	A	0.213	0.045	1.86E-06	3497
family.Peptostreptococcaceae.id.2042	rs73235371	C	T	-0.068	0.014	1.86E-06	16059
family.Methanobacteriaceae.id.121	rs9942108	G	A	-0.203	0.042	1.85E-06	3342
family.ClostridialesvadinBB60group.id.11286	rs9305614	A	G	-0.067	0.014	1.85E-06	10512
family.Alcaligenaceae.id.2875	rs2367850	C	G	0.063	0.013	1.85E-06	16377
family.Erysipelotrichaceae.id.2149	rs35161940	C	T	-0.081	0.017	1.85E-06	18213
family.Bifidobacteriaceae.id.433	rs1446525	G	A	0.056	0.012	1.84E-06	14915
family.unknownfamily.id.1000001214	rs68053172	G	A	-0.088	0.019	1.84E-06	5872
family.Rikenellaceae.id.967	rs1923716	C	A	0.075	0.016	1.83E-06	17678
family.Pasteurellaceae.id.3689	rs76022354	T	C	0.243	0.050	1.83E-06	3692
family.Bifidobacteriaceae.id.433	rs520449	T	C	-0.057	0.012	1.83E-06	14150
family.Actinomycetaceae.id.421	rs35011108	G	A	0.242	0.050	1.83E-06	3630
family.Bifidobacteriaceae.id.433	rs6732236	T	G	0.072	0.015	1.82E-06	14915
family.Streptococcaceae.id.1850	rs72739637	G	A	0.093	0.019	1.82E-06	15111
family.Lachnospiraceae.id.1987	rs11979110	C	T	-0.050	0.011	1.82E-06	18339
family.Bifidobacteriaceae.id.433	rs7589297	C	A	0.056	0.012	1.81E-06	14915
family.Erysipelotrichaceae.id.2149	rs9852239	C	T	0.051	0.011	1.81E-06	18216
family.Bifidobacteriaceae.id.433	rs1374292	G	A	0.056	0.012	1.80E-06	14915
family.FamilyXIII.id.1957	rs118170811	G	A	0.152	0.032	1.80E-06	9645
family.Bifidobacteriaceae.id.433	rs12469551	G	T	0.072	0.014	1.80E-06	14915
family.Bacteroidaceae.id.917	rs11585893	G	A	-0.074	0.015	1.80E-06	17821
family.Porphyromonadaceae.id.943	rs17065783	G	A	-0.059	0.012	1.79E-06	18028
family.ClostridialesvadinBB60group.id.11286	rs6588624	A	G	-0.066	0.014	1.79E-06	10512
family.Erysipelotrichaceae.id.2149	rs2239640	T	G	0.051	0.011	1.79E-06	18216
family.Streptococcaceae.id.1850	rs11110265	G	A	-0.084	0.017	1.78E-06	15960
family.Methanobacteriaceae.id.121	rs62240385	T	G	-0.201	0.042	1.77E-06	3342
family.Peptococcaceae.id.2024	rs2720807	G	C	0.093	0.019	1.77E-06	10719
family.Streptococcaceae.id.1850	rs991041	T	A	-0.053	0.011	1.77E-06	16625
family.Bifidobacteriaceae.id.433	rs6708957	C	T	0.072	0.015	1.76E-06	14915
family.Bifidobacteriaceae.id.433	rs10176573	C	A	0.056	0.012	1.76E-06	14915
family.Victivallaceae.id.2255	rs4079618	G	C	-0.191	0.041	1.76E-06	3917

family.Streptococcaceae.id.1850	rs76734283	G	C	-0.097	0.020	1.76E-06	15960
family.Bifidobacteriaceae.id.433	rs6430554	C	T	0.056	0.012	1.76E-06	14915
family.ClostridialesvadinBB60group.id.11286	rs9895182	T	C	0.131	0.026	1.75E-06	10199
family.Bifidobacteriaceae.id.433	rs6706537	T	C	0.056	0.012	1.74E-06	14915
family.Peptococcaceae.id.2024	rs4990837	G	A	0.091	0.019	1.74E-06	10718
family.Streptococcaceae.id.1850	rs2975655	G	A	-0.060	0.013	1.74E-06	16627
family.ClostridialesvadinBB60group.id.11286	rs56827745	A	G	0.133	0.027	1.74E-06	10199
family.Peptostreptococcaceae.id.2042	rs9573934	T	C	-0.069	0.014	1.73E-06	16059
family.Veillonellaceae.id.2172	rs111810795	T	C	-0.087	0.018	1.73E-06	15605
family.Streptococcaceae.id.1850	rs11110266	C	T	-0.091	0.018	1.72E-06	15951
family.Oxalobacteraceae.id.2966	rs73733941	C	T	-0.135	0.028	1.72E-06	4997
family.Prevothaceae.id.960	rs74442976	G	A	0.091	0.019	1.72E-06	14869
family.Rhodospirillaceae.id.2717	rs3754624	T	C	0.097	0.020	1.71E-06	8496
family.Alcaligenaceae.id.2875	rs9569823	C	T	-0.054	0.011	1.71E-06	16377
family.Peptostreptococcaceae.id.2042	rs9573937	G	A	-0.069	0.014	1.71E-06	16061
family.Streptococcaceae.id.1850	rs2952228	C	T	-0.060	0.013	1.70E-06	16623
family.Bifidobacteriaceae.id.433	rs7595712	C	T	0.072	0.015	1.70E-06	14915
family.Bifidobacteriaceae.id.433	rs2289963	G	A	0.099	0.020	1.70E-06	14915
family.Defluviitaleaceae.id.1924	rs1582238	C	T	0.080	0.017	1.69E-06	8002
family.Streptococcaceae.id.1850	rs11249980	C	T	-0.060	0.013	1.68E-06	16627
family.Victivallaceae.id.2255	rs13234582	A	G	0.122	0.026	1.67E-06	3883
family.Ruminococcaceae.id.2050	rs56199908	C	T	-0.199	0.041	1.66E-06	5618
family.FamilyXI.id.1936	rs75969889	G	T	-0.145	0.030	1.65E-06	3151
family.Verrucomicrobiaceae.id.4036	rs74542928	C	T	0.112	0.024	1.65E-06	11216
family.Bifidobacteriaceae.id.433	rs309133	A	C	0.075	0.016	1.65E-06	14913
family.Bifidobacteriaceae.id.433	rs309123	C	G	0.075	0.016	1.64E-06	14914
family.Bifidobacteriaceae.id.433	rs6430551	T	C	0.056	0.012	1.64E-06	14915
family.Methanobacteriaceae.id.121	rs62241835	T	G	-0.203	0.042	1.63E-06	3383
family.Methanobacteriaceae.id.121	rs6776814	C	T	-0.200	0.041	1.63E-06	3385
family.Lactobacillaceae.id.1836	rs78414635	T	G	-0.181	0.038	1.63E-06	5385
family.Bifidobacteriaceae.id.433	rs4954193	A	G	0.056	0.012	1.62E-06	14915

family.Oxalobacteraceae.id.2966	rs76405250	T	C	-0.136	0.028	1.62E-06	4997
family.Bifidobacteriaceae.id.433	rs62168871	A	G	0.057	0.012	1.62E-06	14688
family.Erysipelotrichaceae.id.2149	rs2239641	C	T	0.051	0.011	1.62E-06	18216
family.Rhodospirillaceae.id.2717	rs75071199	C	A	0.135	0.029	1.61E-06	8498
family.Erysipelotrichaceae.id.2149	rs78782849	C	T	-0.092	0.019	1.61E-06	16874
family.Alcaligenaceae.id.2875	rs9537937	A	T	-0.053	0.011	1.60E-06	16810
family.Erysipelotrichaceae.id.2149	rs2284889	A	G	0.051	0.011	1.60E-06	18216
family.Victivallaceae.id.2255	rs907574	G	A	-0.193	0.041	1.60E-06	3917
family.Methanobacteriaceae.id.121	rs76029318	C	T	0.215	0.045	1.58E-06	3497
family.Streptococcaceae.id.1850	rs2440146	T	C	-0.053	0.011	1.58E-06	16626
family.Veillonellaceae.id.2172	rs79535861	C	A	0.101	0.021	1.58E-06	15061
family.Streptococcaceae.id.1850	rs9895557	C	T	-0.053	0.011	1.58E-06	16627
family.Bifidobacteriaceae.id.433	rs13020688	A	G	0.058	0.012	1.57E-06	14795
family.Victivallaceae.id.2255	rs17017706	G	T	-0.188	0.041	1.57E-06	3917
family.Victivallaceae.id.2255	rs2944282	C	T	-0.124	0.026	1.57E-06	3555
family.Desulfovibrionaceae.id.3169	rs2692012	G	A	0.114	0.025	1.56E-06	13080
family.unknownfamily.id.1000001214	rs4129396	A	G	0.090	0.019	1.56E-06	5877
family.Bifidobacteriaceae.id.433	rs1469995	G	A	0.072	0.015	1.55E-06	14911
family.Bifidobacteriaceae.id.433	rs60453613	G	C	0.072	0.015	1.55E-06	14915
family.Prevotellaceae.id.960	rs8095689	T	A	-0.082	0.017	1.55E-06	14061
family.Rikenellaceae.id.967	rs9594204	C	T	0.076	0.016	1.54E-06	17678
family.Oxalobacteraceae.id.2966	rs73733942	C	T	-0.136	0.028	1.54E-06	4997
family.Erysipelotrichaceae.id.2149	rs2284890	C	T	0.051	0.011	1.54E-06	18215
family.Bifidobacteriaceae.id.433	rs1469996	A	G	0.073	0.015	1.53E-06	14795
family.Streptococcaceae.id.1850	rs11610034	T	C	-0.098	0.020	1.53E-06	15960
family.Coriobacteriaceae.id.811	rs240104	C	T	-0.060	0.013	1.52E-06	17577
family.Oxalobacteraceae.id.2966	rs10465181	T	C	0.096	0.020	1.51E-06	5165
family.Porphyromonadaceae.id.943	rs10811655	C	G	-0.066	0.014	1.50E-06	18022
family.Streptococcaceae.id.1850	rs2952168	G	C	-0.061	0.013	1.50E-06	16517
family.Porphyromonadaceae.id.943	rs10811677	G	T	-0.067	0.014	1.50E-06	18026
family.Rhodospirillaceae.id.2717	rs76784716	G	A	0.136	0.029	1.49E-06	8498

family.Christensenellaceae.id.1866	rs62573205	A	G	-0.065	0.013	1.49E-06	16838
family.Bifidobacteriaceae.id.433	rs309152	T	C	0.076	0.016	1.48E-06	14915
family.Alcaligenaceae.id.2875	rs56050831	T	C	0.073	0.015	1.48E-06	15889
family.Erysipelotrichaceae.id.2149	rs76420385	G	A	-0.093	0.019	1.47E-06	16874
family.Peptococcaceae.id.2024	rs12992764	G	T	0.068	0.014	1.46E-06	10444
family.Bifidobacteriaceae.id.433	rs59869505	A	C	0.061	0.013	1.46E-06	14915
family.Streptococcaceae.id.1850	rs7306985	C	T	-0.098	0.020	1.45E-06	15960
family.Rikenellaceae.id.967	rs6837275	G	A	0.057	0.012	1.45E-06	17199
family.Pasteurellaceae.id.3689	rs10840326	G	C	-0.072	0.015	1.44E-06	9154
family.Bifidobacteriaceae.id.433	rs16833170	A	G	0.061	0.013	1.44E-06	14915
family.Victivallaceae.id.2255	rs12793955	G	T	-0.141	0.029	1.44E-06	3908
family.Streptococcaceae.id.1850	rs7970304	T	G	-0.087	0.018	1.44E-06	15849
family.Bifidobacteriaceae.id.433	rs10928522	C	A	0.057	0.012	1.43E-06	14915
family.Alcaligenaceae.id.2875	rs9537930	A	G	-0.053	0.011	1.42E-06	16809
family.Defluviitaleaceae.id.1924	rs2357084	A	T	-0.109	0.022	1.42E-06	8194
family.BacteroidalesS24.7group.id.11173	rs696267	T	C	0.083	0.017	1.42E-06	7954
family.Methanobacteriaceae.id.121	rs73457410	G	A	0.215	0.044	1.41E-06	3498
family.Bifidobacteriaceae.id.433	rs72976292	T	A	0.061	0.013	1.41E-06	14910
family.Defluviitaleaceae.id.1924	rs55658617	C	T	0.177	0.036	1.41E-06	6676
family.Bifidobacteriaceae.id.433	rs13415439	C	A	0.061	0.013	1.40E-06	14915
family.Streptococcaceae.id.1850	rs2952183	C	T	-0.073	0.015	1.40E-06	16626
family.Streptococcaceae.id.1850	rs2197262	T	A	-0.054	0.011	1.40E-06	16626
family.Erysipelotrichaceae.id.2149	rs79329601	C	T	-0.093	0.019	1.40E-06	16874
family.Peptostreptococcaceae.id.2042	rs117680446	G	A	0.183	0.038	1.39E-06	6628
family.Bifidobacteriaceae.id.433	rs1446524	A	G	0.057	0.012	1.39E-06	14915
family.Lactobacillaceae.id.1836	rs6092149	T	A	-0.083	0.017	1.38E-06	7006
family.Alcaligenaceae.id.2875	rs9569803	A	G	-0.053	0.011	1.37E-06	16809
family.Erysipelotrichaceae.id.2149	rs2300778	G	A	0.052	0.011	1.37E-06	18216
family.Streptococcaceae.id.1850	rs138049946	T	C	-0.098	0.020	1.37E-06	15960
family.Bifidobacteriaceae.id.433	rs56108664	C	T	0.075	0.016	1.37E-06	14041
family.Rikenellaceae.id.967	rs55903929	C	G	0.076	0.016	1.36E-06	17678

family.Alcaligenaceae.id.2875	rs74692987	G	A	-0.060	0.013	1.35E-06	16377
family.Rikenellaceae.id.967	rs4264350	C	T	-0.053	0.011	1.35E-06	17668
family.Oxalobacteraceae.id.2966	rs11140800	A	C	0.097	0.020	1.35E-06	5166
family.Porphyrimonadaceae.id.943	rs10757293	T	C	-0.067	0.014	1.34E-06	18027
family.Bacteroidaceae.id.917	rs195028	A	G	0.080	0.017	1.33E-06	17404
family.BacteroidalesS24.7group.id.11173	rs138088344	G	A	-0.172	0.035	1.33E-06	5208
family.Streptococcaceae.id.1850	rs395407	C	G	-0.083	0.017	1.33E-06	16088
family.Streptococcaceae.id.1850	rs1518775	G	T	-0.053	0.011	1.32E-06	16625
family.Oxalobacteraceae.id.2966	rs73733936	T	C	-0.137	0.028	1.32E-06	4997
family.Prevotellaceae.id.960	rs2206482	G	T	-0.057	0.012	1.30E-06	14808
family.ClostridialesvadinBB60group.id.11286	rs6503942	G	A	0.134	0.027	1.30E-06	10199
family.Oxalobacteraceae.id.2966	rs73733937	A	G	-0.137	0.028	1.30E-06	4997
family.Bacteroidaceae.id.917	rs28757219	A	T	0.082	0.017	1.29E-06	14833
family.Rikenellaceae.id.967	rs56098078	A	C	0.077	0.016	1.29E-06	17678
family.Alcaligenaceae.id.2875	rs9537912	A	T	-0.053	0.011	1.29E-06	16809
family.BacteroidalesS24.7group.id.11173	rs689695	A	C	0.081	0.017	1.28E-06	7954
family.Rikenellaceae.id.967	rs12787142	C	G	-0.104	0.021	1.27E-06	17547
family.unknownfamily.id.1000001214	rs16851659	C	G	-0.090	0.019	1.27E-06	5875
family.ClostridialesvadinBB60group.id.11286	rs8067909	G	A	0.134	0.027	1.27E-06	10199
family.Alcaligenaceae.id.2875	rs7323027	G	A	-0.055	0.011	1.27E-06	16810
family.Bifidobacteriaceae.id.433	rs7568884	C	T	0.061	0.013	1.26E-06	14915
family.Peptococcaceae.id.2024	rs3811732	G	A	-0.072	0.015	1.26E-06	10381
family.Bifidobacteriaceae.id.433	rs1348790	C	G	0.057	0.012	1.26E-06	14915
family.FamilyXI.id.1936	rs11021253	G	C	-0.146	0.030	1.25E-06	3155
family.Alcaligenaceae.id.2875	rs11618348	A	C	-0.053	0.011	1.25E-06	16808
family.BacteroidalesS24.7group.id.11173	rs149498972	G	A	-0.172	0.035	1.25E-06	5208
family.Bifidobacteriaceae.id.433	rs309122	A	G	0.075	0.015	1.25E-06	14914
family.Bifidobacteriaceae.id.433	rs2322251	C	T	0.057	0.012	1.24E-06	14915
family.FamilyXIII.id.1957	rs6501525	G	A	0.056	0.012	1.24E-06	16269
family.Alcaligenaceae.id.2875	rs7139988	G	T	-0.055	0.011	1.23E-06	16810
family.Bifidobacteriaceae.id.433	rs9677760	A	T	0.073	0.014	1.21E-06	14915

family.Victivallaceae.id.2255	rs72960925	C	T	-0.193	0.041	1.20E-06	3917
family.Alcaligenaceae.id.2875	rs9527764	T	A	-0.055	0.011	1.20E-06	16809
family.Enterobacteriaceae.id.3469	rs78143293	G	A	-0.085	0.017	1.20E-06	13572
family.Alcaligenaceae.id.2875	rs1887129	C	T	-0.054	0.011	1.19E-06	16809
family.Victivallaceae.id.2255	rs62481809	C	G	0.124	0.026	1.19E-06	3907
family.Streptococcaceae.id.1850	rs241077	A	T	-0.054	0.011	1.19E-06	16615
family.Erysipelotrichaceae.id.2149	rs2300777	C	A	0.052	0.011	1.18E-06	18216
family.Pasteurellaceae.id.3689	rs4132989	T	C	-0.084	0.017	1.18E-06	9408
family.Streptococcaceae.id.1850	rs111326382	A	G	-0.097	0.020	1.17E-06	15960
family.Victivallaceae.id.2255	rs34702749	A	T	-0.141	0.028	1.17E-06	3909
family.Coriobacteriaceae.id.811	rs56374305	C	G	0.100	0.021	1.17E-06	17688
family.Bifidobacteriaceae.id.433	rs1964459	C	G	0.080	0.016	1.17E-06	14912
family.Bifidobacteriaceae.id.433	rs10928523	C	T	0.057	0.012	1.16E-06	14915
family.Streptococcaceae.id.1850	rs11524043	G	A	-0.099	0.020	1.16E-06	15960
family.Streptococcaceae.id.1850	rs7308947	A	T	-0.098	0.020	1.15E-06	15958
family.Bifidobacteriaceae.id.433	rs4957061	C	T	0.057	0.012	1.15E-06	14795
family.Alcaligenaceae.id.2875	rs9563570	G	T	-0.054	0.011	1.15E-06	16809
family.Ruminococcaceae.id.2050	rs2113833	C	T	0.169	0.036	1.14E-06	4140
family.Streptococcaceae.id.1850	rs74659220	A	C	-0.089	0.018	1.14E-06	15849
family.Bifidobacteriaceae.id.433	rs1374288	C	T	0.057	0.012	1.14E-06	14915
family.Verrucomicrobiaceae.id.4036	rs4936098	G	A	0.065	0.014	1.13E-06	11858
family.Alcaligenaceae.id.2875	rs17000015	T	A	-0.061	0.013	1.13E-06	16377
family.Alcaligenaceae.id.2875	rs9537910	A	G	-0.054	0.011	1.12E-06	16809
family.Peptostreptococcaceae.id.2042	rs483392	G	A	-0.055	0.011	1.12E-06	16046
family.Bifidobacteriaceae.id.433	rs1865452	C	T	0.073	0.015	1.12E-06	14915
family.Coriobacteriaceae.id.811	rs7078773	C	T	0.076	0.016	1.12E-06	17689
family.Victivallaceae.id.2255	rs6951588	T	C	0.125	0.026	1.11E-06	3911
family.Verrucomicrobiaceae.id.4036	rs113634144	G	T	0.074	0.015	1.11E-06	11860
family.Alcaligenaceae.id.2875	rs11683769	A	T	0.064	0.013	1.10E-06	16702
family.Streptococcaceae.id.1850	rs76222580	T	A	-0.100	0.020	1.10E-06	15960
family.Alcaligenaceae.id.2875	rs980610	A	G	-0.054	0.011	1.10E-06	16810

family.Erysipelotrichaceae.id.2149	rs2300780	C	T	0.052	0.011	1.10E-06	18216
family.Defluviitaleaceae.id.1924	rs12500663	G	T	-0.116	0.023	1.09E-06	8151
family.Streptococcaceae.id.1850	rs11614784	G	A	-0.100	0.020	1.09E-06	15960
family.Erysipelotrichaceae.id.2149	rs9858727	T	A	0.052	0.011	1.08E-06	18216
family.Bifidobacteriaceae.id.433	rs60963894	T	G	0.073	0.015	1.08E-06	14915
family.Alcaligenaceae.id.2875	rs1887128	A	G	-0.054	0.011	1.08E-06	16809
family.Streptococcaceae.id.1850	rs2009619	G	A	-0.062	0.013	1.07E-06	16623
family.Alcaligenaceae.id.2875	rs7986644	A	G	-0.054	0.011	1.07E-06	16809
family.Bifidobacteriaceae.id.433	rs1374287	C	T	0.057	0.012	1.06E-06	14915
family.Prevotellaceae.id.960	rs13026139	G	A	-0.058	0.012	1.06E-06	14860
family.Victivallaceae.id.2255	rs11770843	T	C	0.124	0.026	1.06E-06	3891
family.ClostridialesvadinBB60group.id.11286	rs9979874	C	G	-0.074	0.015	1.05E-06	10506
family.Bifidobacteriaceae.id.433	rs1879087	T	C	0.105	0.024	1.05E-06	9168
family.Alcaligenaceae.id.2875	rs9537913	A	G	-0.054	0.011	1.05E-06	16809
family.Porphyromonadaceae.id.943	rs10965204	G	A	-0.064	0.013	1.04E-06	17547
family.BacteroidalesS24.7group.id.11173	rs2356673	A	G	-0.173	0.035	1.04E-06	5306
family.Alcaligenaceae.id.2875	rs67737557	G	C	0.074	0.015	1.04E-06	15876
family.Bifidobacteriaceae.id.433	rs10496737	A	G	0.073	0.015	1.04E-06	14915
family.Bifidobacteriaceae.id.433	rs76671854	G	C	-0.089	0.018	1.04E-06	13923
family.Bifidobacteriaceae.id.433	rs78793148	C	A	0.099	0.020	1.03E-06	14795
family.Alcaligenaceae.id.2875	rs4033856	T	C	0.082	0.017	1.03E-06	15623
family.Peptostreptococcaceae.id.2042	rs117020988	T	C	0.182	0.037	1.03E-06	6831
family.Victivallaceae.id.2255	rs2546105	T	A	0.127	0.026	1.03E-06	3917
family.Streptococcaceae.id.1850	rs2975662	G	C	-0.060	0.012	1.02E-06	16623
family.ClostridialesvadinBB60group.id.11286	rs8066769	G	A	0.135	0.027	1.01E-06	10199
family.Peptococcaceae.id.2024	rs12634826	G	T	-0.074	0.015	1.01E-06	10381
family.Streptococcaceae.id.1850	rs11110280	G	A	-0.100	0.020	1.01E-06	15960
family.Porphyromonadaceae.id.943	rs7851755	G	T	-0.068	0.014	9.93E-07	18025
family.unknownfamily.id.1000006161	rs17235747	A	C	0.103	0.021	9.92E-07	5107
family.Alcaligenaceae.id.2875	rs9569799	A	G	-0.054	0.011	9.88E-07	16809
family.Bifidobacteriaceae.id.433	rs4954575	G	A	0.062	0.013	9.86E-07	14915

family.Peptostreptococcaceae.id.2042	rs2883972	A	G	0.073	0.015	9.80E-07	15333
family.Alcaligenaceae.id.2875	rs7983206	T	C	-0.054	0.011	9.79E-07	16808
family.Erysipelotrichaceae.id.2149	rs2300775	C	T	0.052	0.011	9.78E-07	18216
family.Streptococcaceae.id.1850	rs17708276	G	A	-0.083	0.017	9.74E-07	16517
family.Erysipelotrichaceae.id.2149	rs79996147	A	T	-0.094	0.019	9.72E-07	16874
family.Bifidobacteriaceae.id.433	rs6733130	A	C	0.058	0.012	9.71E-07	14915
family.Alcaligenaceae.id.2875	rs9537948	G	A	-0.056	0.011	9.71E-07	16377
family.Peptostreptococcaceae.id.2042	rs34683673	G	C	0.074	0.015	9.70E-07	15332
family.Alcaligenaceae.id.2875	rs7990795	G	T	-0.054	0.011	9.68E-07	16809
family.Bifidobacteriaceae.id.433	rs309124	A	G	0.076	0.015	9.62E-07	14914
family.Bifidobacteriaceae.id.433	rs1374289	C	T	0.058	0.012	9.62E-07	14914
family.Bifidobacteriaceae.id.433	rs7560535	G	A	0.093	0.018	9.58E-07	14914
family.Alcaligenaceae.id.2875	rs7333865	C	T	-0.055	0.011	9.44E-07	16810
family.Defluviitaleaceae.id.1924	rs4677103	G	A	0.098	0.020	9.42E-07	8002
family.Alcaligenaceae.id.2875	rs1536384	T	C	-0.054	0.011	9.40E-07	16810
family.Alcaligenaceae.id.2875	rs986833	A	G	-0.054	0.011	9.31E-07	16809
family.Prevothaceae.id.960	rs912860	A	G	-0.229	0.048	9.30E-07	3479
family.Erysipelotrichaceae.id.2149	rs7234058	C	T	-0.095	0.019	9.12E-07	16874
family.Ruminococcaceae.id.2050	rs17304036	G	A	0.085	0.017	9.12E-07	18219
family.ClostridialesvadinBB60group.id.11286	rs7218114	G	A	0.136	0.027	9.08E-07	10199
family.Alcaligenaceae.id.2875	rs9537907	T	A	-0.054	0.011	9.07E-07	16807
family.Defluviitaleaceae.id.1924	rs12501518	A	G	-0.111	0.022	9.06E-07	8194
family.Alcaligenaceae.id.2875	rs9563573	C	T	-0.054	0.011	9.04E-07	16809
family.Bifidobacteriaceae.id.433	rs4954571	G	A	0.065	0.014	9.01E-07	14913
family.Alcaligenaceae.id.2875	rs7988274	A	C	-0.054	0.011	8.99E-07	16809
family.Erysipelotrichaceae.id.2149	rs2300774	A	G	0.052	0.011	8.95E-07	18216
family.Streptococcaceae.id.1850	rs4968759	G	A	-0.054	0.011	8.92E-07	16624
family.Alcaligenaceae.id.2875	rs11679161	C	T	0.065	0.013	8.91E-07	16702
family.Bacteroidaceae.id.917	rs750423	G	A	0.052	0.011	8.89E-07	18302
family.Bifidobacteriaceae.id.433	rs4567981	A	T	0.058	0.012	8.88E-07	14795
family.Alcaligenaceae.id.2875	rs9527759	T	C	-0.054	0.011	8.83E-07	16810

family.Streptococcaceae.id.1850	rs2952176	A	G	-0.061	0.012	8.79E-07	16622
family.Prevotellaceae.id.960	rs12612711	G	A	-0.058	0.012	8.75E-07	14859
family.Lactobacillaceae.id.1836	rs328312	A	T	0.083	0.017	8.69E-07	7051
family.Streptococcaceae.id.1850	rs118038800	C	T	-0.101	0.020	8.68E-07	15960
family.Prevotellaceae.id.960	rs13005458	G	A	-0.058	0.012	8.60E-07	14864
family.Alcaligenaceae.id.2875	rs9569779	A	G	-0.054	0.011	8.53E-07	16810
family.Alcaligenaceae.id.2875	rs1036451	T	C	-0.054	0.011	8.48E-07	16809
family.Defluviitaleaceae.id.1924	rs2357086	C	T	-0.112	0.022	8.47E-07	8194
family.Alcaligenaceae.id.2875	rs7322915	A	T	-0.056	0.011	8.46E-07	16810
family.Alcaligenaceae.id.2875	rs1036450	T	A	-0.054	0.011	8.44E-07	16809
family.Alcaligenaceae.id.2875	rs9563571	T	C	-0.054	0.011	8.40E-07	16810
family.Veillonellaceae.id.2172	rs66716149	T	C	-0.058	0.012	8.34E-07	15865
family.Oxalobacteraceae.id.2966	rs10868238	C	T	0.099	0.020	8.33E-07	5168
family.Alcaligenaceae.id.2875	rs9537865	C	T	-0.054	0.011	8.31E-07	16809
family.Alcaligenaceae.id.2875	rs10444649	C	T	-0.054	0.011	8.26E-07	16810
family.Streptococcaceae.id.1850	rs2975635	C	T	-0.061	0.012	8.18E-07	16622
family.Alcaligenaceae.id.2875	rs9563572	C	T	-0.054	0.011	8.10E-07	16810
family.Ruminococcaceae.id.2050	rs1572312	G	T	0.084	0.017	8.10E-07	18335
family.Alcaligenaceae.id.2875	rs9563562	T	C	-0.054	0.011	8.07E-07	16810
family.BacteroidalesS24.7group.id.11173	rs697394	A	T	0.085	0.017	8.04E-07	7952
family.Alcaligenaceae.id.2875	rs9537908	T	C	-0.054	0.011	8.02E-07	16809
family.Alcaligenaceae.id.2875	rs7997285	C	T	-0.054	0.011	7.97E-07	16810
family.Alcaligenaceae.id.2875	rs9527748	G	A	-0.054	0.011	7.96E-07	16809
family.Alcaligenaceae.id.2875	rs7996696	G	A	-0.054	0.011	7.95E-07	16809
family.Streptococcaceae.id.1850	rs11110171	G	A	-0.101	0.020	7.94E-07	15959
family.Victivallaceae.id.2255	rs34296005	A	T	0.128	0.026	7.92E-07	3915
family.Alcaligenaceae.id.2875	rs1409526	A	G	-0.054	0.011	7.78E-07	16810
family.Rikenellaceae.id.967	rs7995332	C	A	0.080	0.017	7.77E-07	17680
family.Coriobacteriaceae.id.811	rs2458655	C	A	0.078	0.016	7.77E-07	17689
family.Alcaligenaceae.id.2875	rs9537921	A	G	-0.054	0.011	7.75E-07	16810
family.Porphyromonadaceae.id.943	rs2093835	T	G	-0.068	0.014	7.71E-07	18028

family.Oxalobacteraceae.id.2966	rs4364195	A	G	0.116	0.023	7.67E-07	5167
family.Alcaligenaceae.id.2875	rs1953283	C	A	-0.055	0.011	7.66E-07	16808
family.Streptococcaceae.id.1850	rs11110206	T	C	-0.111	0.022	7.65E-07	15426
family.Streptococcaceae.id.1850	rs7316887	G	A	-0.101	0.020	7.64E-07	15850
family.Alcaligenaceae.id.2875	rs12467854	C	G	0.066	0.013	7.63E-07	16697
family.Bifidobacteriaceae.id.433	rs7592990	A	G	0.087	0.017	7.55E-07	14915
family.Victivallaceae.id.2255	rs11764871	T	G	0.127	0.026	7.49E-07	3909
family.Streptococcaceae.id.1850	rs60861038	C	T	-0.101	0.020	7.48E-07	15960
family.Alcaligenaceae.id.2875	rs9537904	G	A	-0.055	0.011	7.46E-07	16809
family.Porphyromonadaceae.id.943	rs10811676	C	T	-0.069	0.014	7.46E-07	18027
family.Bifidobacteriaceae.id.433	rs2117511	T	C	0.086	0.017	7.45E-07	14915
family.Oxalobacteraceae.id.2966	rs1569853	C	T	-0.140	0.028	7.45E-07	4997
family.Bifidobacteriaceae.id.433	rs578384	C	T	-0.059	0.012	7.43E-07	14147
family.BacteroidalesS24.7group.id.11173	rs17043468	T	C	-0.173	0.034	7.39E-07	5306
family.Oxalobacteraceae.id.2966	rs6000536	T	C	-0.118	0.024	7.39E-07	5166
family.Alcaligenaceae.id.2875	rs9537900	A	G	-0.055	0.011	7.38E-07	16810
family.Peptococcaceae.id.2024	rs9644052	T	C	0.082	0.017	7.34E-07	10444
family.Desulfovibrionaceae.id.3169	rs6060240	C	A	0.082	0.017	7.33E-07	14416
family.Ruminococcaceae.id.2050	rs17376049	C	T	0.085	0.017	7.30E-07	18333
family.Peptostreptococcaceae.id.2042	rs12377846	A	C	-0.252	0.051	7.26E-07	3736
family.Rikenellaceae.id.967	rs5010916	G	T	0.078	0.016	7.24E-07	17680
family.Oxalobacteraceae.id.2966	rs4287929	G	A	0.117	0.023	7.21E-07	5167
family.Alcaligenaceae.id.2875	rs9537940	C	A	-0.055	0.011	7.14E-07	16810
family.Peptostreptococcaceae.id.2042	rs61841447	T	C	0.075	0.015	7.14E-07	15332
family.BacteroidalesS24.7group.id.11173	rs17043770	A	G	-0.177	0.034	7.10E-07	5208
family.Alcaligenaceae.id.2875	rs9569804	G	A	-0.055	0.011	7.10E-07	16810
family.Alcaligenaceae.id.2875	rs9537922	T	C	-0.055	0.011	7.07E-07	16810
family.Streptococcaceae.id.1850	rs76118421	T	A	-0.102	0.020	7.01E-07	15850
family.ClostridialesvadinBB60group.id.11286	rs28691777	T	C	0.137	0.027	6.96E-07	10199
family.Peptostreptococcaceae.id.2042	rs61841445	G	C	0.075	0.015	6.91E-07	15332
family.Bifidobacteriaceae.id.433	rs1947112	A	G	0.059	0.012	6.85E-07	14915

family.Bifidobacteriaceae.id.433	rs4953938	G	A	0.058	0.012	6.84E-07	14915
family.Bacteroidaceae.id.917	rs66474973	T	G	0.081	0.016	6.81E-07	17405
family.Peptostreptococcaceae.id.2042	rs41289305	T	C	0.075	0.015	6.75E-07	15332
family.Verrucomicrobiaceae.id.4036	rs11729256	C	T	0.075	0.015	6.73E-07	11861
family.Prevoellaceae.id.960	rs9967134	T	A	-0.086	0.017	6.70E-07	14056
family.Alcaligenaceae.id.2875	rs1470456	A	G	-0.055	0.011	6.67E-07	16810
family.FamilyXI.id.1936	rs2155352	G	A	-0.151	0.030	6.63E-07	3150
family.Streptococcaceae.id.1850	rs11110208	T	C	-0.112	0.022	6.59E-07	15426
family.Alcaligenaceae.id.2875	rs2217928	T	C	-0.055	0.011	6.58E-07	16810
family.Rikenellaceae.id.967	rs67705352	G	T	-0.055	0.011	6.58E-07	17676
family.Bifidobacteriaceae.id.433	rs625118	C	A	0.087	0.017	6.58E-07	14915
family.Methanobacteriaceae.id.121	rs1869500	A	C	-0.118	0.024	6.57E-07	3692
family.Alcaligenaceae.id.2875	rs9537941	A	C	-0.055	0.011	6.52E-07	16810
family.Alcaligenaceae.id.2875	rs1036449	C	T	-0.055	0.011	6.51E-07	16808
family.Streptococcaceae.id.1850	rs12371224	A	T	-0.101	0.020	6.50E-07	15959
family.Streptococcaceae.id.1850	rs11110164	C	G	-0.102	0.020	6.37E-07	15850
family.Peptostreptococcaceae.id.2042	rs2644627	G	C	-0.056	0.011	6.33E-07	16059
family.Bifidobacteriaceae.id.433	rs3769023	G	A	0.059	0.012	6.29E-07	14915
family.Prevoellaceae.id.960	rs10779530	G	A	-0.075	0.015	6.23E-07	14871
family.Streptococcaceae.id.1850	rs11110191	C	T	-0.102	0.020	6.22E-07	15960
family.Streptococcaceae.id.1850	rs7308069	C	A	-0.101	0.020	6.20E-07	15960
family.Prevoellaceae.id.960	rs11102139	T	C	0.084	0.017	6.16E-07	14868
family.Alcaligenaceae.id.2875	rs9537872	A	G	-0.055	0.011	6.15E-07	16809
family.Methanobacteriaceae.id.121	rs7601415	T	A	-0.119	0.024	6.11E-07	3692
family.Lachnospiraceae.id.1987	rs28456161	G	A	-0.131	0.026	6.10E-07	13965
family.Veillonellaceae.id.2172	rs12024294	C	T	-0.058	0.012	6.02E-07	15605
family.Victivallaceae.id.2255	rs6545794	G	A	-0.198	0.041	5.97E-07	3916
family.Alcaligenaceae.id.2875	rs9527747	C	G	-0.055	0.011	5.96E-07	16810
family.Bifidobacteriaceae.id.433	rs10187990	A	G	0.059	0.012	5.95E-07	14915
family.Peptostreptococcaceae.id.2042	rs17661170	A	G	0.063	0.013	5.95E-07	16061
family.Streptococcaceae.id.1850	rs11110091	G	A	-0.102	0.020	5.93E-07	15850

family.Streptococcaceae.id.1850	rs11110212	T	C	-0.112	0.022	5.91E-07	15426
family.Streptococcaceae.id.1850	rs2029585	T	C	-0.112	0.022	5.91E-07	15426
family.Oxalobacteraceae.id.2966	rs4605578	A	G	0.118	0.023	5.89E-07	5167
family.Streptococcaceae.id.1850	rs76452890	G	C	-0.113	0.022	5.85E-07	15424
family.Streptococcaceae.id.1850	rs11110190	T	C	-0.103	0.020	5.84E-07	15960
family.Alcaligenaceae.id.2875	rs9537916	G	A	-0.056	0.011	5.82E-07	16377
family.Rikenellaceae.id.967	rs34299625	A	T	-0.105	0.021	5.80E-07	17547
family.BacteroidalesS24.7group.id.11173	rs6742712	T	C	-0.174	0.034	5.79E-07	5306
family.FamilyXI.id.1936	rs10759623	T	C	-0.162	0.032	5.78E-07	3156
family.Lactobacillaceae.id.1836	rs921925	C	A	0.100	0.020	5.77E-07	7053
family.Streptococcaceae.id.1850	rs11110125	A	G	-0.101	0.020	5.76E-07	15960
family.Rikenellaceae.id.967	rs1322804	T	G	0.079	0.016	5.67E-07	17679
family.Peptostreptococcaceae.id.2042	rs80159630	T	C	0.063	0.013	5.66E-07	16061
family.Rikenellaceae.id.967	rs1939881	A	G	-0.106	0.021	5.64E-07	17434
family.Bifidobacteriaceae.id.433	rs638382	C	T	-0.060	0.012	5.56E-07	14148
family.Bacteroidaceae.id.917	rs6810046	A	G	0.053	0.011	5.56E-07	18302
family.Streptococcaceae.id.1850	rs11110184	A	G	-0.103	0.020	5.56E-07	15960
family.Prevotellaceae.id.960	rs12118202	C	T	-0.075	0.015	5.54E-07	14869
family.Streptococcaceae.id.1850	rs11110214	A	G	-0.112	0.022	5.52E-07	15426
family.Prevotellaceae.id.960	rs3860225	G	A	0.084	0.017	5.50E-07	14871
family.Porphyromonadaceae.id.943	rs10217465	G	A	-0.071	0.015	5.48E-07	17547
family.Bifidobacteriaceae.id.433	rs56271357	C	T	0.059	0.012	5.47E-07	14915
family.Streptococcaceae.id.1850	rs113804138	C	T	-0.113	0.022	5.44E-07	15426
family.Coriobacteriaceae.id.811	rs719099	G	A	0.078	0.016	5.43E-07	17687
family.Porphyromonadaceae.id.943	rs10965294	C	G	-0.070	0.014	5.34E-07	18026
family.Alcaligenaceae.id.2875	rs7324740	A	G	-0.057	0.011	5.32E-07	16809
family.Rikenellaceae.id.967	rs3764077	A	G	0.084	0.017	5.28E-07	17680
family.Streptococcaceae.id.1850	rs11110200	A	T	-0.116	0.023	5.23E-07	15311
family.Rikenellaceae.id.967	rs9603195	G	T	0.079	0.016	5.21E-07	17679
family.Rikenellaceae.id.967	rs2224659	A	G	0.079	0.016	5.21E-07	17679
family.Bifidobacteriaceae.id.433	rs4954557	C	T	0.065	0.013	5.19E-07	14915

family.Bifidobacteriaceae.id.433	rs72847650	C	A	-0.061	0.012	5.13E-07	14030
family.BacteroidalesS24.7group.id.11173	rs17043785	C	T	-0.176	0.035	5.12E-07	5208
family.Alcaligenaceae.id.2875	rs12867878	G	A	-0.057	0.011	5.06E-07	16810
family.ClostridialesvadinBB60group.id.11286	rs55682560	T	C	-0.132	0.026	4.97E-07	9183
family.Peptococcaceae.id.2024	rs35703006	T	G	0.081	0.016	4.95E-07	10715
family.Pasteurellaceae.id.3689	rs7771624	C	A	-0.086	0.017	4.94E-07	9412
family.Streptococcaceae.id.1850	rs11495178	C	A	-0.103	0.020	4.93E-07	15960
family.Bifidobacteriaceae.id.433	rs10166142	A	G	0.059	0.012	4.86E-07	14915
family.Bifidobacteriaceae.id.433	rs3814355	C	T	0.059	0.012	4.83E-07	14915
family.Erysipelotrichaceae.id.2149	rs62504370	C	A	0.063	0.013	4.80E-07	17285
family.Streptococcaceae.id.1850	rs11110249	T	A	-0.116	0.022	4.76E-07	15426
family.Rikenellaceae.id.967	rs73180681	C	T	0.084	0.017	4.75E-07	17680
family.Rikenellaceae.id.967	rs7337526	C	T	0.084	0.017	4.72E-07	17680
family.Streptococcaceae.id.1850	rs12371009	A	G	-0.103	0.020	4.62E-07	15960
family.Lachnospiraceae.id.1987	rs8060299	T	G	-0.124	0.025	4.61E-07	15866
family.Prevoellaceae.id.960	rs6720263	A	G	-0.060	0.012	4.59E-07	14871
family.Alcaligenaceae.id.2875	rs1926544	A	C	-0.056	0.011	4.53E-07	16810
family.Bifidobacteriaceae.id.433	rs35564151	A	G	0.060	0.012	4.51E-07	14795
family.Streptococcaceae.id.1850	rs4260895	A	C	-0.063	0.013	4.50E-07	16627
family.Rikenellaceae.id.967	rs17055871	T	A	0.084	0.017	4.49E-07	17680
family.Veillonellaceae.id.2172	rs12738636	G	A	-0.059	0.012	4.46E-07	15605
family.Streptococcaceae.id.1850	rs12369165	C	T	-0.103	0.020	4.37E-07	15959
family.Bifidobacteriaceae.id.433	rs4954394	A	G	0.067	0.014	4.30E-07	14915
family.BacteroidalesS24.7group.id.11173	rs696266	G	A	0.084	0.016	4.27E-07	7778
family.Bifidobacteriaceae.id.433	rs2034261	G	T	0.060	0.012	4.26E-07	14915
family.Oxalobacteraceae.id.2966	rs6445048	A	G	0.118	0.023	4.24E-07	5167
family.Peptostreptococcaceae.id.2042	rs4692811	T	C	0.064	0.013	4.21E-07	16061
family.Streptococcaceae.id.1850	rs12366744	T	A	-0.114	0.022	4.21E-07	15424
family.Bifidobacteriaceae.id.433	rs62168897	C	T	0.060	0.012	4.15E-07	14915
family.Alcaligenaceae.id.2875	rs9537883	G	T	-0.056	0.011	4.06E-07	16810
family.Alcaligenaceae.id.2875	rs1581853	G	A	-0.057	0.011	4.03E-07	16377

family.Desulfovibrionaceae.id.3169	rs6060237	A	G	0.082	0.017	3.97E-07	15075
family.Bifidobacteriaceae.id.433	rs3814354	G	A	0.060	0.012	3.95E-07	14915
family.Bifidobacteriaceae.id.433	rs4988243	T	C	0.119	0.024	3.85E-07	12180
family.Prevotellaceae.id.960	rs7226722	C	T	-0.087	0.017	3.84E-07	14062
family.Bifidobacteriaceae.id.433	rs6716987	C	A	0.064	0.013	3.84E-07	14915
family.BacteroidalesS24.7group.id.11173	rs738193	C	T	0.085	0.017	3.82E-07	7778
family.Oxalobacteraceae.id.2966	rs4243423	A	G	0.120	0.023	3.76E-07	5167
family.Prevotellaceae.id.960	rs9953173	A	G	-0.088	0.017	3.76E-07	14061
family.Rikenellaceae.id.967	rs7140071	T	C	0.080	0.016	3.74E-07	17679
family.Streptococcaceae.id.1850	rs2952251	G	A	-0.064	0.013	3.72E-07	16612
family.Bifidobacteriaceae.id.433	rs6708336	T	A	0.060	0.012	3.72E-07	14915
family.Rikenellaceae.id.967	rs34027519	C	T	0.080	0.016	3.70E-07	17680
family.Peptostreptococcaceae.id.2042	rs61841477	C	A	0.081	0.016	3.70E-07	15333
family.Rikenellaceae.id.967	rs7324216	C	T	0.085	0.017	3.70E-07	17677
family.Rikenellaceae.id.967	rs7329262	A	G	0.080	0.016	3.66E-07	17677
family.unknownfamily.id.1000001214	rs17039205	A	G	-0.149	0.029	3.64E-07	5768
family.Peptostreptococcaceae.id.2042	rs61841471	G	T	0.072	0.014	3.61E-07	16060
family.Rikenellaceae.id.967	rs1923719	T	C	0.080	0.016	3.61E-07	17680
family.Rikenellaceae.id.967	rs9603204	C	T	0.080	0.016	3.61E-07	17680
family.Desulfovibrionaceae.id.3169	rs6060238	G	A	0.083	0.017	3.60E-07	15075
family.Rikenellaceae.id.967	rs61946576	T	C	0.085	0.017	3.60E-07	17680
family.Streptococcaceae.id.1850	rs11110130	A	T	-0.105	0.020	3.56E-07	15849
family.Oxalobacteraceae.id.2966	rs13060354	A	G	0.120	0.023	3.56E-07	5167
family.Peptostreptococcaceae.id.2042	rs41526049	C	T	0.072	0.014	3.55E-07	16060
family.unknownfamily.id.1000001214	rs1010755	C	T	-0.149	0.029	3.55E-07	5768
family.Alcaligenaceae.id.2875	rs7326330	T	C	-0.056	0.011	3.54E-07	16810
family.Oxalobacteraceae.id.2966	rs7625948	C	G	0.119	0.023	3.53E-07	5167
family.Peptostreptococcaceae.id.2042	rs7075681	G	C	0.076	0.015	3.51E-07	15333
family.Oxalobacteraceae.id.2966	rs4280664	G	A	0.120	0.023	3.47E-07	5167
family.Oxalobacteraceae.id.2966	rs35327886	A	G	0.120	0.023	3.39E-07	5167
family.Bacteroidaceae.id.917	rs6795673	T	C	0.054	0.011	3.38E-07	18301

family.Rikenellaceae.id.967	rs1590305	C	T	0.080	0.016	3.37E-07	17679
family.Rikenellaceae.id.967	rs35078720	C	G	0.080	0.016	3.37E-07	17680
family.Prevotellaceae.id.960	rs6733556	G	C	-0.060	0.012	3.37E-07	14870
family.Oxalobacteraceae.id.2966	rs4243424	C	T	0.120	0.023	3.36E-07	5167
family.Desulfovibrionaceae.id.3169	rs6060239	T	C	0.083	0.017	3.36E-07	15074
family.Bifidobacteriaceae.id.433	rs2090661	A	G	0.066	0.013	3.34E-07	14912
family.Rikenellaceae.id.967	rs17055723	C	T	0.080	0.016	3.34E-07	17680
family.Rikenellaceae.id.967	rs35308611	T	C	0.080	0.016	3.30E-07	17680
family.Rikenellaceae.id.967	rs5000542	G	A	0.080	0.016	3.28E-07	17680
family.Alcaligenaceae.id.2875	rs9537878	G	A	-0.056	0.011	3.27E-07	16810
family.Rikenellaceae.id.967	rs4436664	G	C	0.080	0.016	3.25E-07	17680
family.Rikenellaceae.id.967	rs61946592	T	C	0.085	0.017	3.24E-07	17680
family.Streptococcaceae.id.1850	rs138155218	C	G	-0.105	0.020	3.23E-07	15850
family.Streptococcaceae.id.1850	rs11110110	G	A	-0.105	0.020	3.21E-07	15850
family.Rikenellaceae.id.967	rs7334359	C	T	0.080	0.016	3.21E-07	17679
family.Rikenellaceae.id.967	rs1923717	A	T	0.080	0.016	3.19E-07	17680
family.Rikenellaceae.id.967	rs9603205	C	A	0.080	0.016	3.19E-07	17680
family.Rikenellaceae.id.967	rs4514540	C	T	0.081	0.016	3.18E-07	17680
family.Rikenellaceae.id.967	rs4578521	C	T	0.081	0.016	3.18E-07	17680
family.Peptostreptococcaceae.id.2042	rs61841472	T	C	0.072	0.014	3.18E-07	16060
family.Bifidobacteriaceae.id.433	rs4954272	A	G	0.089	0.018	3.17E-07	14915
family.BacteroidalesS24.7group.id.11173	rs941000	T	C	0.085	0.016	3.16E-07	7778
family.Streptococcaceae.id.1850	rs7298009	T	C	-0.105	0.020	3.15E-07	15849
family.Alcaligenaceae.id.2875	rs7988877	T	A	-0.058	0.011	3.15E-07	16377
family.Rikenellaceae.id.967	rs1923718	C	T	0.080	0.016	3.12E-07	17680
family.Bifidobacteriaceae.id.433	rs3820790	A	T	0.098	0.019	3.11E-07	14912
family.Rikenellaceae.id.967	rs55796046	G	T	0.081	0.016	3.11E-07	17666
family.Oxalobacteraceae.id.2966	rs6785343	C	T	0.120	0.023	3.09E-07	5167
family.Pasteurellaceae.id.3689	rs7740611	C	A	-0.088	0.017	3.08E-07	9410
family.Streptococcaceae.id.1850	rs74484094	C	T	-0.117	0.022	3.07E-07	15426
family.Bifidobacteriaceae.id.433	rs56036623	T	C	0.070	0.014	3.06E-07	14915

family.Pasteurellaceae.id.3689	rs12191680	G	C	0.102	0.020	3.05E-07	9408
family.Prevotellaceae.id.960	rs4493272	C	T	-0.060	0.012	3.02E-07	14867
family.Streptococcaceae.id.1850	rs7312868	G	A	-0.105	0.020	3.02E-07	15850
family.Rikenellaceae.id.967	rs55963355	C	T	0.081	0.016	3.02E-07	17680
family.Methanobacteriaceae.id.121	rs10202904	G	T	-0.122	0.024	3.01E-07	3695
family.Prevotellaceae.id.960	rs9952932	C	T	-0.088	0.017	3.01E-07	14061
family.Victivallaceae.id.2255	rs12575328	G	A	-0.150	0.029	2.97E-07	3915
family.Streptococcaceae.id.1850	rs12370791	T	G	-0.116	0.022	2.95E-07	15425
family.Streptococcaceae.id.1850	rs11110196	C	A	-0.105	0.020	2.95E-07	15850
family.Streptococcaceae.id.1850	rs11110198	G	A	-0.105	0.020	2.95E-07	15850
family.Rikenellaceae.id.967	rs9603202	A	G	0.081	0.016	2.94E-07	17680
family.Rikenellaceae.id.967	rs9603201	G	C	0.081	0.016	2.92E-07	17680
family.Rikenellaceae.id.967	rs2323487	A	T	0.086	0.017	2.92E-07	17680
family.Streptococcaceae.id.1850	rs11110160	A	G	-0.105	0.020	2.91E-07	15850
family.Alcaligenaceae.id.2875	rs9537885	G	A	-0.057	0.011	2.90E-07	16807
family.Bifidobacteriaceae.id.433	rs11895609	A	T	0.083	0.017	2.89E-07	14915
family.Erysipelotrichaceae.id.2149	rs62504402	C	T	0.066	0.013	2.88E-07	16874
family.Rikenellaceae.id.967	rs9603203	G	A	0.081	0.016	2.87E-07	17680
family.Rikenellaceae.id.967	rs17055728	A	G	0.081	0.016	2.85E-07	17680
family.Rikenellaceae.id.967	rs9594208	T	C	0.081	0.016	2.85E-07	17680
family.Rikenellaceae.id.967	rs1590303	C	A	0.081	0.016	2.84E-07	17679
family.Rikenellaceae.id.967	rs4435115	G	A	0.081	0.016	2.84E-07	17680
family.Lachnospiraceae.id.1987	rs9929145	A	G	-0.126	0.025	2.84E-07	15866
family.Rikenellaceae.id.967	rs6563550	C	T	0.086	0.017	2.81E-07	17680
family.Streptococcaceae.id.1850	rs2131006	A	G	-0.105	0.020	2.79E-07	15497
family.Oxalobacteraceae.id.2966	rs4622921	A	G	0.121	0.023	2.79E-07	5167
family.Peptostreptococcaceae.id.2042	rs61841467	A	G	0.076	0.015	2.78E-07	15332
family.Oxalobacteraceae.id.2966	rs6772385	C	A	0.120	0.023	2.77E-07	5167
family.Rikenellaceae.id.967	rs1575380	C	T	0.081	0.016	2.76E-07	17680
family.Alcaligenaceae.id.2875	rs62191117	G	A	0.068	0.013	2.76E-07	16688
family.Defluviitaleaceae.id.1924	rs72731813	T	C	-0.150	0.029	2.76E-07	7786

family.Rikenellaceae.id.967	rs4421867	T	C	0.081	0.016	2.75E-07	17680
family.Bifidobacteriaceae.id.433	rs62168844	A	G	0.101	0.019	2.74E-07	14912
family.Oxalobacteraceae.id.2966	rs6782568	C	A	0.121	0.023	2.73E-07	5167
family.Lactobacillaceae.id.1836	rs16861661	A	G	-0.193	0.038	2.70E-07	5385
family.Desulfovibrionaceae.id.3169	rs6058181	T	C	0.083	0.017	2.70E-07	15074
family.Victivallaceae.id.2255	rs62570196	T	C	-0.246	0.048	2.70E-07	3091
family.Streptococcaceae.id.1850	rs75007764	G	A	-0.116	0.022	2.70E-07	15426
family.Rikenellaceae.id.967	rs9594207	A	G	0.081	0.016	2.69E-07	17680
family.Rikenellaceae.id.967	rs7994056	T	C	0.081	0.016	2.69E-07	17680
family.Bifidobacteriaceae.id.433	rs4954573	T	G	0.066	0.013	2.68E-07	14915
family.Streptococcaceae.id.1850	rs10860539	C	T	-0.104	0.020	2.67E-07	15959
family.Porphyromonadaceae.id.943	rs60884758	T	C	-0.071	0.014	2.66E-07	18016
family.Oxalobacteraceae.id.2966	rs6445049	T	G	0.120	0.023	2.64E-07	5167
family.unknownfamily.id.1000001214	rs12486770	T	A	-0.153	0.029	2.64E-07	5768
family.Streptococcaceae.id.1850	rs56843411	G	A	-0.115	0.022	2.64E-07	15426
family.Rikenellaceae.id.967	rs9594209	T	C	0.081	0.016	2.62E-07	17680
family.Rikenellaceae.id.967	rs1575382	G	A	0.081	0.016	2.61E-07	17680
family.Rikenellaceae.id.967	rs7988812	C	A	0.081	0.016	2.61E-07	17680
family.Rikenellaceae.id.967	rs9805695	T	C	0.081	0.016	2.61E-07	17680
family.Rikenellaceae.id.967	rs7989845	A	G	0.081	0.016	2.61E-07	17680
family.Rikenellaceae.id.967	rs7335244	A	G	0.081	0.016	2.59E-07	17679
family.Rikenellaceae.id.967	rs9603206	T	G	0.081	0.016	2.58E-07	17680
family.Streptococcaceae.id.1850	rs11110257	C	T	-0.117	0.022	2.55E-07	15425
family.Rhodospirillaceae.id.2717	rs9813022	G	A	-0.084	0.016	2.53E-07	8498
family.Rikenellaceae.id.967	rs9594205	G	A	0.081	0.016	2.53E-07	17680
family.Rikenellaceae.id.967	rs4575409	C	T	0.081	0.016	2.53E-07	17680
family.Rikenellaceae.id.967	rs1575383	A	G	0.081	0.016	2.53E-07	17680
family.Rikenellaceae.id.967	rs9603200	G	A	0.081	0.016	2.53E-07	17680
family.Rikenellaceae.id.967	rs1575381	A	T	0.081	0.016	2.53E-07	17680
family.Oxalobacteraceae.id.2966	rs6445047	C	T	0.120	0.023	2.52E-07	5168
family.Streptococcaceae.id.1850	rs10860537	C	T	-0.106	0.020	2.52E-07	15850

family.Rikenellaceae.id.967	rs9603207	T	A	0.081	0.016	2.52E-07	17680
family.Streptococcaceae.id.1850	rs112118907	C	A	-0.118	0.022	2.50E-07	15426
family.Pasteurellaceae.id.3689	rs9382510	T	C	-0.088	0.017	2.48E-07	9410
family.Peptostreptococcaceae.id.2042	rs7913601	C	T	0.077	0.015	2.47E-07	15333
family.Peptostreptococcaceae.id.2042	rs78114045	C	T	0.077	0.015	2.47E-07	15332
family.Alcaligenaceae.id.2875	rs2321387	A	G	-0.057	0.011	2.46E-07	16808
family.Bifidobacteriaceae.id.433	rs6430601	G	T	0.085	0.017	2.46E-07	14913
family.Peptostreptococcaceae.id.2042	rs61841466	G	A	0.077	0.015	2.45E-07	15332
family.Erysipelotrichaceae.id.2149	rs11990327	G	A	0.067	0.013	2.45E-07	16981
family.Rikenellaceae.id.967	rs17055747	A	C	0.081	0.016	2.45E-07	17680
family.Streptococcaceae.id.1850	rs11832216	C	T	-0.117	0.022	2.44E-07	15426
family.Bifidobacteriaceae.id.433	rs10193587	T	C	0.066	0.013	2.40E-07	14795
family.Rikenellaceae.id.967	rs56406841	T	A	0.081	0.016	2.40E-07	17680
family.Oxalobacteraceae.id.2966	rs1317940	A	G	0.122	0.023	2.39E-07	5167
family.Bifidobacteriaceae.id.433	rs12992815	C	G	0.096	0.019	2.38E-07	14915
family.Erysipelotrichaceae.id.2149	rs11990200	G	A	0.067	0.013	2.37E-07	16874
family.Alcaligenaceae.id.2875	rs9537886	C	A	-0.057	0.011	2.35E-07	16807
family.Bifidobacteriaceae.id.433	rs10928558	T	C	0.066	0.013	2.34E-07	14915
family.Bifidobacteriaceae.id.433	rs6756200	T	C	0.062	0.012	2.33E-07	14795
family.Rikenellaceae.id.967	rs6563551	T	G	0.087	0.017	2.32E-07	17680
family.Oxalobacteraceae.id.2966	rs4894821	G	A	0.122	0.023	2.29E-07	5167
family.Streptococcaceae.id.1850	rs11110118	C	T	-0.106	0.020	2.28E-07	15850
family.Peptostreptococcaceae.id.2042	rs113922985	C	T	0.073	0.014	2.27E-07	16060
family.Bifidobacteriaceae.id.433	rs60274701	G	A	0.097	0.019	2.25E-07	14915
family.Rikenellaceae.id.967	rs9594210	C	T	0.082	0.016	2.25E-07	17680
family.Oxalobacteraceae.id.2966	rs34124854	C	T	0.122	0.023	2.24E-07	5167
family.Peptostreptococcaceae.id.2042	rs7899152	A	G	0.073	0.014	2.24E-07	16060
family.Peptostreptococcaceae.id.2042	rs61841474	A	T	0.073	0.014	2.22E-07	16060
family.Rikenellaceae.id.967	rs9603209	T	C	0.082	0.016	2.20E-07	17679
family.Streptococcaceae.id.1850	rs11110140	T	C	-0.106	0.020	2.19E-07	15849
family.Bifidobacteriaceae.id.433	rs80274970	C	T	0.108	0.021	2.18E-07	14427

family.Streptococcaceae.id.1850	rs11110211	T	G	-0.118	0.022	2.17E-07	15426
family.Rikenellaceae.id.967	rs9594206	G	A	0.082	0.016	2.13E-07	17680
family.Oxalobacteraceae.id.2966	rs13073573	C	T	0.122	0.023	2.12E-07	5167
family.Peptostreptococcaceae.id.2042	rs61841463	C	T	0.077	0.015	2.10E-07	15332
family.Bifidobacteriaceae.id.433	rs13007153	T	C	0.068	0.013	2.09E-07	14910
family.Oxalobacteraceae.id.2966	rs7428410	C	T	0.122	0.023	2.05E-07	5167
family.Peptostreptococcaceae.id.2042	rs61841473	G	A	0.073	0.014	2.04E-07	16060
family.Streptococcaceae.id.1850	rs10860540	A	C	-0.105	0.020	2.02E-07	15959
family.Peptostreptococcaceae.id.2042	rs61844360	G	A	0.078	0.015	2.00E-07	15328
family.Rikenellaceae.id.967	rs9594211	C	T	0.082	0.016	1.98E-07	17680
family.Peptostreptococcaceae.id.2042	rs11594134	T	C	0.084	0.016	1.97E-07	15333
family.Oxalobacteraceae.id.2966	rs4525896	G	A	0.123	0.023	1.97E-07	5167
family.Peptostreptococcaceae.id.2042	rs74668791	T	G	0.078	0.015	1.95E-07	15332
family.Rikenellaceae.id.967	rs1107244	A	G	0.087	0.017	1.92E-07	17680
family.Rikenellaceae.id.967	rs9603208	T	G	0.082	0.016	1.92E-07	17680
family.Oxalobacteraceae.id.2966	rs4423796	C	T	0.122	0.023	1.91E-07	5165
family.Oxalobacteraceae.id.2966	rs2132164	G	C	0.123	0.023	1.83E-07	5167
family.Streptococcaceae.id.1850	rs11110251	A	C	-0.118	0.022	1.83E-07	15426
family.Streptococcaceae.id.1850	rs150200257	G	A	-0.123	0.023	1.82E-07	15311
family.Bifidobacteriaceae.id.433	rs872151	C	T	0.096	0.019	1.81E-07	14915
family.Peptostreptococcaceae.id.2042	rs11591519	G	A	0.084	0.016	1.79E-07	15254
family.Victivallaceae.id.2255	rs56349194	G	A	-0.152	0.029	1.78E-07	3915
family.Streptococcaceae.id.1850	rs11110204	A	G	-0.120	0.022	1.76E-07	15316
family.Ruminococcaceae.id.2050	rs117677831	A	G	0.098	0.019	1.76E-07	15835
family.Streptococcaceae.id.1850	rs11110250	T	C	-0.118	0.022	1.75E-07	15426
family.Peptostreptococcaceae.id.2042	rs61841475	G	A	0.074	0.014	1.73E-07	16060
family.Bifidobacteriaceae.id.433	rs1519525	C	T	0.066	0.013	1.72E-07	14915
family.Bifidobacteriaceae.id.433	rs1961273	T	C	0.069	0.013	1.70E-07	14915
family.Bifidobacteriaceae.id.433	rs3739022	G	A	0.098	0.019	1.66E-07	14915
family.Bifidobacteriaceae.id.433	rs10928554	C	T	0.100	0.018	1.56E-07	14795
family.Oxalobacteraceae.id.2966	rs12635823	A	G	0.121	0.023	1.55E-07	5168

family.Victivallaceae.id.2255	rs4396289	T	C	-0.153	0.029	1.54E-07	3913
family.Oxalobacteraceae.id.2966	rs736744	T	C	0.106	0.020	1.49E-07	5167
family.Streptococcaceae.id.1850	rs114181124	G	A	-0.108	0.020	1.49E-07	15849
family.Bifidobacteriaceae.id.433	rs6733547	G	T	0.087	0.017	1.45E-07	14915
family.Ruminococcaceae.id.2050	rs55793120	C	T	0.138	0.027	1.44E-07	12405
family.Streptococcaceae.id.1850	rs115024257	G	A	-0.108	0.020	1.44E-07	15849
family.Bifidobacteriaceae.id.433	rs4954388	T	C	0.068	0.013	1.43E-07	14911
family.Streptococcaceae.id.1850	rs12370204	C	T	-0.108	0.020	1.41E-07	15849
family.Streptococcaceae.id.1850	rs7138882	A	G	-0.120	0.022	1.40E-07	15426
family.Bifidobacteriaceae.id.433	rs10171677	G	A	0.062	0.012	1.40E-07	14795
family.Streptococcaceae.id.1850	rs116172730	G	A	-0.120	0.022	1.39E-07	15426
family.Bifidobacteriaceae.id.433	rs62168846	G	A	0.105	0.020	1.38E-07	14912
family.Bifidobacteriaceae.id.433	rs4954578	T	C	0.067	0.013	1.37E-07	14915
family.Streptococcaceae.id.1850	rs11110129	A	G	-0.108	0.020	1.37E-07	15849
family.Peptostreptococcaceae.id.2042	rs61844361	T	C	0.079	0.015	1.36E-07	15332
family.Porphyromonadaceae.id.943	rs10119172	G	C	-0.074	0.014	1.32E-07	18022
family.Oxalobacteraceae.id.2966	rs4481179	C	G	0.121	0.023	1.32E-07	5168
family.Veillonellaceae.id.2172	rs12741784	T	C	-0.062	0.012	1.28E-07	15867
family.Peptostreptococcaceae.id.2042	rs76209010	C	A	0.078	0.015	1.21E-07	15333
family.Streptococcaceae.id.1850	rs114272490	T	C	-0.109	0.020	1.21E-07	15850
family.Bifidobacteriaceae.id.433	rs62168843	T	C	0.104	0.019	1.20E-07	14912
family.Streptococcaceae.id.1850	rs11110138	T	C	-0.109	0.020	1.18E-07	15849
family.Streptococcaceae.id.1850	rs74767263	C	G	-0.109	0.020	1.18E-07	15849
family.Streptococcaceae.id.1850	rs57062458	C	T	-0.115	0.021	1.18E-07	15425
family.Streptococcaceae.id.1850	rs78367981	G	C	-0.121	0.022	1.14E-07	15426
family.Bifidobacteriaceae.id.433	rs16833335	G	A	0.067	0.013	1.13E-07	14915
family.Erysipelotrichaceae.id.2149	rs62504403	T	C	0.068	0.013	1.12E-07	16981
family.Streptococcaceae.id.1850	rs11110241	T	C	-0.116	0.021	1.10E-07	15425
family.Bifidobacteriaceae.id.433	rs62168847	T	C	0.105	0.019	1.08E-07	14912
family.Prevothellaceae.id.960	rs9958960	A	G	-0.091	0.017	1.06E-07	14061
family.Streptococcaceae.id.1850	rs12367656	T	C	-0.122	0.022	1.03E-07	15316

family.Streptococcaceae.id.1850	rs7296331	C	T	-0.121	0.022	1.03E-07	15426
family.Streptococcaceae.id.1850	rs2559847	C	T	-0.122	0.022	9.86E-08	15426
family.Bifidobacteriaceae.id.433	rs1964776	C	T	0.067	0.013	9.83E-08	14915
family.Streptococcaceae.id.1850	rs11110235	T	C	-0.121	0.022	9.83E-08	15426
family.Peptostreptococcaceae.id.2042	rs41335345	C	T	0.086	0.016	9.59E-08	15333
family.Streptococcaceae.id.1850	rs11110288	C	T	-0.121	0.022	9.54E-08	15426
family.Oxalobacteraceae.id.2966	rs7644098	G	C	0.123	0.023	9.42E-08	5167
family.Streptococcaceae.id.1850	rs11110148	G	C	-0.109	0.020	9.40E-08	15850
family.Bifidobacteriaceae.id.433	rs4954397	A	G	0.068	0.013	9.39E-08	14915
family.Bifidobacteriaceae.id.433	rs12473760	C	A	0.067	0.013	9.33E-08	14915
family.Bifidobacteriaceae.id.433	rs4954445	T	A	0.101	0.019	9.27E-08	14915
family.Bifidobacteriaceae.id.433	rs3769011	A	T	0.101	0.019	9.05E-08	14915
family.Streptococcaceae.id.1850	rs7967270	A	C	-0.110	0.020	8.93E-08	15849
family.Bifidobacteriaceae.id.433	rs4954577	A	G	0.068	0.013	8.89E-08	14915
family.Bifidobacteriaceae.id.433	rs1123848	C	T	0.068	0.013	8.89E-08	14913
family.Oxalobacteraceae.id.2966	rs7643618	G	A	0.123	0.023	8.82E-08	5167
family.Bifidobacteriaceae.id.433	rs1942055	G	C	0.064	0.012	8.32E-08	14911
family.Bifidobacteriaceae.id.433	rs7609188	G	C	0.113	0.022	8.16E-08	12287
family.Streptococcaceae.id.1850	rs11110158	G	A	-0.126	0.023	8.06E-08	15314
family.Bifidobacteriaceae.id.433	rs61470941	T	C	0.100	0.019	8.01E-08	14915
family.Streptococcaceae.id.1850	rs12372388	G	A	-0.122	0.022	7.95E-08	15426
family.Bifidobacteriaceae.id.433	rs74697610	A	T	0.112	0.021	7.76E-08	14688
family.Streptococcaceae.id.1850	rs12368073	C	A	-0.117	0.021	7.73E-08	15425
family.Bifidobacteriaceae.id.433	rs35215526	G	A	0.107	0.020	7.28E-08	14912
family.Bifidobacteriaceae.id.433	rs2056297	G	T	0.068	0.013	7.24E-08	14915
family.Streptococcaceae.id.1850	rs117585280	T	A	-0.124	0.023	7.12E-08	15313
family.Bifidobacteriaceae.id.433	rs2322812	A	G	0.102	0.019	7.07E-08	14915
family.Streptococcaceae.id.1850	rs12370758	T	C	-0.125	0.023	6.85E-08	15313
family.Streptococcaceae.id.1850	rs4374023	G	A	-0.123	0.022	6.73E-08	15423
family.Streptococcaceae.id.1850	rs11522881	C	T	-0.124	0.022	6.67E-08	15316
family.Bifidobacteriaceae.id.433	rs58080116	A	G	0.102	0.019	6.55E-08	14915

family.Streptococcaceae.id.1850	rs11110145	A	T	-0.111	0.020	6.51E-08	15849
family.Streptococcaceae.id.1850	rs79728246	T	C	-0.123	0.022	6.48E-08	15426
family.Bifidobacteriaceae.id.433	rs16831994	T	C	0.114	0.022	6.36E-08	12287
family.Streptococcaceae.id.1850	rs12369047	T	G	-0.111	0.020	6.20E-08	15850
family.Streptococcaceae.id.1850	rs7313123	T	C	-0.110	0.020	6.13E-08	15958
family.Bifidobacteriaceae.id.433	rs13010498	G	C	-0.069	0.013	6.09E-08	14795
family.Bifidobacteriaceae.id.433	rs2102896	T	C	0.068	0.013	5.88E-08	14915
family.Peptostreptococcaceae.id.2042	rs61844362	T	C	0.081	0.015	5.78E-08	15332
family.Bifidobacteriaceae.id.433	rs953387	A	C	0.068	0.013	5.67E-08	14915
family.Streptococcaceae.id.1850	rs17030023	A	T	-0.124	0.022	5.66E-08	15426
family.Streptococcaceae.id.1850	rs116878826	T	C	-0.124	0.022	5.65E-08	15312
family.Streptococcaceae.id.1850	rs11837200	T	C	-0.123	0.022	5.49E-08	15426
family.Bifidobacteriaceae.id.433	rs74266324	G	A	0.082	0.015	5.45E-08	14795
family.Bifidobacteriaceae.id.433	rs4954572	G	T	0.069	0.013	5.44E-08	14915
family.Streptococcaceae.id.1850	rs12371930	G	A	-0.130	0.024	5.39E-08	14953
family.Bifidobacteriaceae.id.433	rs2874874	A	C	0.103	0.019	5.28E-08	14915
family.Bifidobacteriaceae.id.433	rs4954396	A	C	0.069	0.013	5.27E-08	14915
family.Bifidobacteriaceae.id.433	rs7564577	C	T	0.089	0.017	5.26E-08	14913
family.Bifidobacteriaceae.id.433	rs10803550	C	T	0.068	0.013	5.22E-08	14915
family.Streptococcaceae.id.1850	rs75132655	T	G	-0.111	0.020	5.20E-08	15958
family.Streptococcaceae.id.1850	rs17029986	T	G	-0.120	0.022	5.03E-08	15425
family.Streptococcaceae.id.1850	rs74348118	T	C	-0.124	0.022	4.96E-08	15426
family.Streptococcaceae.id.1850	rs11835118	C	T	-0.123	0.022	4.95E-08	15426
family.Oxalobacteraceae.id.2966	rs4428215	A	G	0.126	0.023	4.88E-08	5167
family.Bifidobacteriaceae.id.433	rs1807356	T	C	0.092	0.017	4.88E-08	14915
family.Streptococcaceae.id.1850	rs7959495	A	C	-0.125	0.022	4.83E-08	15426
family.Streptococcaceae.id.1850	rs7294396	C	G	-0.120	0.022	4.83E-08	15425
family.Bifidobacteriaceae.id.433	rs4954564	A	G	0.069	0.013	4.58E-08	14914
family.Streptococcaceae.id.1850	rs11110264	A	G	-0.126	0.023	4.47E-08	15313
family.Bifidobacteriaceae.id.433	rs4954566	C	T	0.069	0.013	4.15E-08	14915
family.Streptococcaceae.id.1850	rs9669453	G	A	-0.125	0.022	4.12E-08	15426

family.Bifidobacteriaceae.id.433	rs6729961	T	G	0.118	0.022	4.11E-08	12287
family.Bifidobacteriaceae.id.433	rs6707289	A	G	0.118	0.022	4.10E-08	12287
family.Bifidobacteriaceae.id.433	rs6720497	G	A	0.118	0.022	4.10E-08	12287
family.Streptococcaceae.id.1850	rs17851246	G	A	-0.126	0.022	4.10E-08	15316
family.Streptococcaceae.id.1850	rs11110276	G	T	-0.124	0.022	3.96E-08	15426
family.Bifidobacteriaceae.id.433	rs72970286	T	G	0.115	0.021	3.92E-08	12286
family.Streptococcaceae.id.1850	rs17030005	C	T	-0.126	0.022	3.84E-08	15426
family.Streptococcaceae.id.1850	rs78843973	C	T	-0.126	0.023	3.84E-08	15316
family.Bifidobacteriaceae.id.433	rs950176	A	G	0.070	0.013	3.52E-08	14914
family.Bifidobacteriaceae.id.433	rs60376570	G	A	0.104	0.019	3.46E-08	14915
family.Bifidobacteriaceae.id.433	rs12616955	C	T	0.069	0.013	3.45E-08	14915
family.Bifidobacteriaceae.id.433	rs4954392	A	G	0.070	0.013	3.21E-08	14915
family.Bifidobacteriaceae.id.433	rs56211644	T	C	0.105	0.019	3.18E-08	14915
family.Bifidobacteriaceae.id.433	rs6715785	G	A	0.070	0.013	3.00E-08	14915
family.Bifidobacteriaceae.id.433	rs4954569	C	T	0.070	0.013	2.86E-08	14915
family.Bifidobacteriaceae.id.433	rs62170081	A	G	0.119	0.022	2.78E-08	12287
family.Bifidobacteriaceae.id.433	rs10928513	C	T	0.066	0.012	2.74E-08	14914
family.Bifidobacteriaceae.id.433	rs72972104	G	A	0.116	0.022	2.73E-08	12287
family.Streptococcaceae.id.1850	rs11110268	T	C	-0.128	0.023	2.69E-08	15316
family.Bifidobacteriaceae.id.433	rs4954570	G	C	0.074	0.013	2.61E-08	14913
family.Bifidobacteriaceae.id.433	rs13008147	A	G	-0.071	0.013	2.50E-08	13923
family.Streptococcaceae.id.1850	rs117905191	G	A	-0.128	0.023	2.39E-08	15316
family.Streptococcaceae.id.1850	rs78017832	G	T	-0.128	0.023	2.37E-08	15316
family.Bifidobacteriaceae.id.433	rs57543738	T	C	0.106	0.019	2.16E-08	14915
family.Streptococcaceae.id.1850	rs80243853	A	G	-0.128	0.022	2.12E-08	15426
family.Streptococcaceae.id.1850	rs11110283	C	A	-0.129	0.023	2.04E-08	15316
family.Bifidobacteriaceae.id.433	rs6430580	A	G	0.096	0.017	1.96E-08	14915
family.Bifidobacteriaceae.id.433	rs2874834	A	G	0.077	0.013	1.94E-08	14915
family.Bifidobacteriaceae.id.433	rs584226	T	C	0.101	0.018	1.91E-08	14915
family.Bifidobacteriaceae.id.433	rs1900741	C	T	0.083	0.014	1.91E-08	14915
family.Peptostreptococcaceae.id.2042	rs11595451	C	T	0.090	0.016	1.85E-08	15252

family.Bifidobacteriaceae.id.433	rs56982689	C	T	0.118	0.022	1.78E-08	12287
family.Bifidobacteriaceae.id.433	rs78141345	G	A	0.107	0.019	1.77E-08	14915
family.Bifidobacteriaceae.id.433	rs7322849	C	T	0.111	0.020	1.74E-08	14915
family.Streptococcaceae.id.1850	rs12368593	A	C	-0.129	0.022	1.72E-08	15426
family.Bifidobacteriaceae.id.433	rs9941547	G	A	0.071	0.013	1.72E-08	14808
family.Bifidobacteriaceae.id.433	rs4954633	C	T	0.118	0.022	1.67E-08	12287
family.Bifidobacteriaceae.id.433	rs4954568	T	A	0.071	0.013	1.51E-08	14915
family.Streptococcaceae.id.1850	rs11110282	G	A	-0.128	0.022	1.44E-08	15426
family.Bifidobacteriaceae.id.433	rs16855656	A	G	0.099	0.017	1.42E-08	14915
family.Streptococcaceae.id.1850	rs11110281	C	T	-0.131	0.023	1.40E-08	15316
family.Bifidobacteriaceae.id.433	rs4954430	C	T	0.120	0.022	1.37E-08	12286
family.Bifidobacteriaceae.id.433	rs55634455	T	C	0.108	0.019	1.32E-08	14915
family.Bifidobacteriaceae.id.433	rs1401687	G	C	0.072	0.013	1.31E-08	14915
family.Bifidobacteriaceae.id.433	rs10179271	T	C	0.072	0.013	1.16E-08	14915
family.Bifidobacteriaceae.id.433	rs7565871	G	C	0.091	0.017	1.13E-08	14914
family.Bifidobacteriaceae.id.433	rs10496736	C	G	0.122	0.022	1.09E-08	12287
family.Bifidobacteriaceae.id.433	rs60433564	A	C	0.123	0.022	1.05E-08	12287
family.Bifidobacteriaceae.id.433	rs7565053	A	T	0.128	0.023	1.04E-08	12187
family.Bifidobacteriaceae.id.433	rs12478902	T	C	0.103	0.018	9.81E-09	14914
family.Peptostreptococcaceae.id.2042	rs61841503	A	G	0.092	0.016	9.80E-09	15333
family.Bifidobacteriaceae.id.433	rs4954567	G	T	0.072	0.013	9.64E-09	14915
family.Bifidobacteriaceae.id.433	rs3754692	T	C	0.079	0.013	9.24E-09	14915
family.Bifidobacteriaceae.id.433	rs12233092	G	A	0.102	0.018	8.26E-09	14912
family.Bifidobacteriaceae.id.433	rs6745996	A	G	0.099	0.017	8.06E-09	14915
family.Bifidobacteriaceae.id.433	rs3754690	C	T	0.110	0.019	8.00E-09	14915
family.Bifidobacteriaceae.id.433	rs2164331	C	T	0.106	0.018	7.53E-09	14915
family.Bifidobacteriaceae.id.433	rs998451	A	G	0.068	0.012	7.44E-09	14915
family.Bifidobacteriaceae.id.433	rs6739713	A	G	0.079	0.013	7.39E-09	14915
family.Bifidobacteriaceae.id.433	rs16832200	T	C	0.102	0.018	6.78E-09	14915
family.Bifidobacteriaceae.id.433	rs6430593	G	A	0.103	0.018	6.67E-09	14915
family.Bifidobacteriaceae.id.433	rs7371606	A	G	0.075	0.013	6.42E-09	14795

family.Bifidobacteriaceae.id.433	rs309132	C	G	0.107	0.018	5.94E-09	14915
family.Bifidobacteriaceae.id.433	rs6752519	C	T	0.107	0.018	4.92E-09	14915
family.Bifidobacteriaceae.id.433	rs6727889	C	T	0.096	0.017	4.85E-09	14915
family.Bifidobacteriaceae.id.433	rs925966	G	C	0.076	0.013	4.52E-09	14795
family.Bifidobacteriaceae.id.433	rs2322725	T	C	0.103	0.018	4.38E-09	14915
family.Bifidobacteriaceae.id.433	rs6705610	T	G	0.093	0.017	4.25E-09	14915
family.Bifidobacteriaceae.id.433	rs2322445	T	A	0.093	0.017	4.22E-09	14915
family.Bifidobacteriaceae.id.433	rs7594509	G	T	0.093	0.017	4.01E-09	14915
family.Bifidobacteriaceae.id.433	rs56067372	C	T	0.109	0.018	3.81E-09	14915
family.Bifidobacteriaceae.id.433	rs11897217	C	T	0.094	0.017	3.48E-09	14915
family.Bifidobacteriaceae.id.433	rs2278544	G	A	0.082	0.014	3.42E-09	14915
family.Bifidobacteriaceae.id.433	rs2164332	G	C	0.104	0.018	3.03E-09	14915
family.Bifidobacteriaceae.id.433	rs3806502	C	T	0.096	0.017	2.90E-09	14915
family.Bifidobacteriaceae.id.433	rs16832138	G	A	0.110	0.018	2.83E-09	14915
family.Bifidobacteriaceae.id.433	rs3820794	T	C	0.083	0.014	2.82E-09	14915
family.Bifidobacteriaceae.id.433	rs7608980	G	A	0.110	0.018	2.78E-09	14915
family.Bifidobacteriaceae.id.433	rs7605229	C	T	0.097	0.017	2.77E-09	14915
family.Bifidobacteriaceae.id.433	rs56369660	A	G	0.096	0.017	2.64E-09	14915
family.Bifidobacteriaceae.id.433	rs16832156	G	A	0.106	0.018	2.47E-09	14914
family.Bifidobacteriaceae.id.433	rs11889843	G	A	0.096	0.017	2.45E-09	14915
family.Bifidobacteriaceae.id.433	rs4954242	A	G	0.098	0.017	2.41E-09	14915
family.Bifidobacteriaceae.id.433	rs56263017	T	C	0.110	0.018	2.38E-09	14915
family.Bifidobacteriaceae.id.433	rs11900832	C	T	0.097	0.017	2.27E-09	14915
family.Bifidobacteriaceae.id.433	rs3769002	T	C	0.110	0.018	2.22E-09	14915
family.Bifidobacteriaceae.id.433	rs10928529	G	A	0.097	0.017	2.20E-09	14915
family.Bifidobacteriaceae.id.433	rs6742013	T	C	0.097	0.017	2.16E-09	14915
family.Bifidobacteriaceae.id.433	rs16832275	C	G	0.106	0.018	2.11E-09	14915
family.Bifidobacteriaceae.id.433	rs1030764	T	C	0.084	0.014	2.11E-09	14915
family.Bifidobacteriaceae.id.433	rs7563997	T	A	0.097	0.017	2.04E-09	14914
family.Bifidobacteriaceae.id.433	rs7597802	A	T	0.097	0.017	2.04E-09	14915
family.Bifidobacteriaceae.id.433	rs3213871	C	T	0.111	0.018	1.92E-09	14915

family.Bifidobacteriaceae.id.433	rs309126	T	C	0.105	0.017	1.84E-09	14915
family.Bifidobacteriaceae.id.433	rs2305248	A	G	0.096	0.017	1.82E-09	14915
family.Bifidobacteriaceae.id.433	rs17293519	A	G	0.096	0.017	1.72E-09	14915
family.Bifidobacteriaceae.id.433	rs3768998	G	T	0.109	0.018	1.71E-09	14914
family.Bifidobacteriaceae.id.433	rs6737635	G	T	0.098	0.017	1.65E-09	14915
family.Bifidobacteriaceae.id.433	rs4954213	G	T	0.097	0.017	1.58E-09	14915
family.Bifidobacteriaceae.id.433	rs6704561	C	T	0.079	0.013	1.57E-09	14795
family.Bifidobacteriaceae.id.433	rs6706466	A	G	0.096	0.017	1.54E-09	14915
family.Bifidobacteriaceae.id.433	rs4954513	G	A	0.112	0.018	1.50E-09	14915
family.Bifidobacteriaceae.id.433	rs13408096	G	T	0.098	0.017	1.37E-09	14915
family.Bifidobacteriaceae.id.433	rs6709763	C	A	0.098	0.017	1.36E-09	14915
family.Bifidobacteriaceae.id.433	rs10188066	A	G	0.084	0.014	1.35E-09	14915
family.Bifidobacteriaceae.id.433	rs12616520	T	A	0.084	0.014	1.34E-09	14915
family.Bifidobacteriaceae.id.433	rs6760329	G	A	0.085	0.014	1.21E-09	14915
family.Bifidobacteriaceae.id.433	rs4954221	G	A	0.097	0.017	1.19E-09	14915
family.Bifidobacteriaceae.id.433	rs61663334	A	G	0.096	0.017	1.18E-09	14914
family.Bifidobacteriaceae.id.433	rs4954226	T	C	0.099	0.017	1.17E-09	14915
family.Bifidobacteriaceae.id.433	rs2304599	G	C	0.085	0.014	1.12E-09	14915
family.Bifidobacteriaceae.id.433	rs6749119	C	G	0.097	0.017	1.10E-09	14915
family.Bifidobacteriaceae.id.433	rs11897204	T	C	0.097	0.017	1.10E-09	14915
family.Bifidobacteriaceae.id.433	rs9287442	G	A	0.085	0.014	1.05E-09	14915
family.Bifidobacteriaceae.id.433	rs11888521	G	C	0.097	0.017	1.02E-09	14914
family.Bifidobacteriaceae.id.433	rs6747073	T	C	0.081	0.013	9.76E-10	14913
family.Bifidobacteriaceae.id.433	rs16831264	G	C	0.099	0.017	9.62E-10	14915
family.Bifidobacteriaceae.id.433	rs62168934	A	G	0.099	0.017	9.43E-10	14915
family.Bifidobacteriaceae.id.433	rs11892750	G	A	0.100	0.017	9.41E-10	14915
family.Bifidobacteriaceae.id.433	rs16831498	G	C	0.100	0.017	9.40E-10	14915
family.Bifidobacteriaceae.id.433	rs13427494	G	A	0.100	0.017	9.35E-10	14915
family.Bifidobacteriaceae.id.433	rs13410870	G	A	0.098	0.017	8.43E-10	14915
family.Bifidobacteriaceae.id.433	rs10928545	G	A	0.086	0.014	8.21E-10	14915
family.Bifidobacteriaceae.id.433	rs60350840	A	G	0.100	0.017	8.18E-10	14915

family.Bifidobacteriaceae.id.433	rs10174944	C	T	0.099	0.017	8.15E-10	14915
family.Bifidobacteriaceae.id.433	rs6723108	G	T	0.073	0.012	7.70E-10	14915
family.Bifidobacteriaceae.id.433	rs4494812	A	G	0.098	0.017	7.34E-10	14914
family.Bifidobacteriaceae.id.433	rs10209482	A	C	0.100	0.017	7.31E-10	14915
family.Bifidobacteriaceae.id.433	rs11888951	T	C	0.100	0.017	7.06E-10	14915
family.Bifidobacteriaceae.id.433	rs7565149	T	A	0.100	0.017	6.78E-10	14915
family.Bifidobacteriaceae.id.433	rs56174523	A	C	0.100	0.017	6.61E-10	14915
family.Bifidobacteriaceae.id.433	rs13413872	G	T	0.100	0.017	6.60E-10	14915
family.Bifidobacteriaceae.id.433	rs4954212	A	G	0.100	0.017	6.59E-10	14914
family.Bifidobacteriaceae.id.433	rs6721838	A	G	0.099	0.017	6.53E-10	14915
family.Bifidobacteriaceae.id.433	rs4953946	T	G	0.100	0.017	6.49E-10	14915
family.Bifidobacteriaceae.id.433	rs57829242	A	G	0.101	0.017	6.48E-10	14915
family.Bifidobacteriaceae.id.433	rs6714750	A	G	0.084	0.013	6.28E-10	14795
family.Bifidobacteriaceae.id.433	rs7601683	C	T	0.100	0.017	6.26E-10	14915
family.Bifidobacteriaceae.id.433	rs6760553	A	G	0.100	0.017	6.22E-10	14915
family.Bifidobacteriaceae.id.433	rs2290518	G	A	0.099	0.017	6.07E-10	14915
family.Bifidobacteriaceae.id.433	rs10186594	A	G	0.100	0.017	6.00E-10	14915
family.Bifidobacteriaceae.id.433	rs11884903	T	C	0.101	0.017	5.72E-10	14915
family.Bifidobacteriaceae.id.433	rs1374329	A	G	0.085	0.013	5.57E-10	14915
family.Bifidobacteriaceae.id.433	rs13402112	A	C	0.100	0.017	5.56E-10	14915
family.Bifidobacteriaceae.id.433	rs4954214	C	T	0.100	0.017	5.48E-10	14915
family.Bifidobacteriaceae.id.433	rs11890844	A	G	0.101	0.017	5.28E-10	14915
family.Bifidobacteriaceae.id.433	rs1530559	A	G	0.074	0.012	5.23E-10	14795
family.Bifidobacteriaceae.id.433	rs13402101	T	A	0.101	0.017	5.19E-10	14915
family.Bifidobacteriaceae.id.433	rs13399376	A	G	0.101	0.017	5.19E-10	14915
family.Bifidobacteriaceae.id.433	rs7565268	T	C	0.101	0.017	5.02E-10	14915
family.Bifidobacteriaceae.id.433	rs10182750	T	C	0.101	0.017	4.99E-10	14915
family.Bifidobacteriaceae.id.433	rs13409400	A	C	0.101	0.017	4.93E-10	14915
family.Bifidobacteriaceae.id.433	rs58327215	G	C	0.099	0.017	4.92E-10	14915
family.Bifidobacteriaceae.id.433	rs2017831	C	T	0.101	0.017	4.80E-10	14915
family.Bifidobacteriaceae.id.433	rs4645053	T	A	0.099	0.017	4.77E-10	14914

family.Bifidobacteriaceae.id.433	rs6738563	G	T	0.073	0.012	4.67E-10	14911
family.Bifidobacteriaceae.id.433	rs62168941	C	T	0.101	0.017	4.64E-10	14915
family.Bifidobacteriaceae.id.433	rs7577258	G	A	0.101	0.017	4.61E-10	14915
family.Bifidobacteriaceae.id.433	rs4953947	A	C	0.101	0.017	4.52E-10	14915
family.Bifidobacteriaceae.id.433	rs7601696	C	A	0.101	0.017	4.52E-10	14915
family.Bifidobacteriaceae.id.433	rs6430561	C	T	0.100	0.017	4.49E-10	14915
family.Bifidobacteriaceae.id.433	rs6741481	A	G	0.100	0.017	4.46E-10	14915
family.Bifidobacteriaceae.id.433	rs7603805	A	G	0.100	0.017	4.43E-10	14915
family.Bifidobacteriaceae.id.433	rs4640444	T	C	0.099	0.017	4.39E-10	14914
family.Bifidobacteriaceae.id.433	rs921859	A	G	0.101	0.017	4.38E-10	14915
family.Bifidobacteriaceae.id.433	rs58426504	T	G	0.100	0.017	4.37E-10	14915
family.Bifidobacteriaceae.id.433	rs1551497	T	C	0.101	0.017	4.34E-10	14915
family.Bifidobacteriaceae.id.433	rs11898045	T	C	0.100	0.017	4.32E-10	14915
family.Bifidobacteriaceae.id.433	rs56903548	C	T	0.100	0.017	4.29E-10	14915
family.Bifidobacteriaceae.id.433	rs4954215	G	A	0.101	0.017	4.26E-10	14915
family.Bifidobacteriaceae.id.433	rs10167809	C	T	0.101	0.017	4.08E-10	14915
family.Bifidobacteriaceae.id.433	rs10167884	C	T	0.101	0.017	4.08E-10	14915
family.Bifidobacteriaceae.id.433	rs4953948	T	G	0.101	0.017	3.99E-10	14915
family.Bifidobacteriaceae.id.433	rs4954216	G	A	0.101	0.017	3.98E-10	14915
family.Bifidobacteriaceae.id.433	rs10167901	C	T	0.101	0.017	3.96E-10	14915
family.Bifidobacteriaceae.id.433	rs7422031	C	T	0.101	0.017	3.80E-10	14915
family.Bifidobacteriaceae.id.433	rs4954220	C	A	0.100	0.017	3.75E-10	14915
family.Bifidobacteriaceae.id.433	rs4954217	C	T	0.101	0.017	3.68E-10	14915
family.Bifidobacteriaceae.id.433	rs61087958	C	T	0.101	0.017	3.67E-10	14915
family.Bifidobacteriaceae.id.433	rs11903663	A	G	0.099	0.017	3.66E-10	14914
family.Bifidobacteriaceae.id.433	rs62168942	T	C	0.102	0.017	3.65E-10	14915
family.Bifidobacteriaceae.id.433	rs7573600	G	C	0.100	0.017	3.51E-10	14915
family.Bifidobacteriaceae.id.433	rs13389481	C	A	0.104	0.017	3.31E-10	14914
family.Bifidobacteriaceae.id.433	rs2016636	G	A	0.084	0.013	3.23E-10	14915
family.Bifidobacteriaceae.id.433	rs58697996	G	A	0.101	0.017	3.09E-10	14915
family.Bifidobacteriaceae.id.433	rs4953945	C	G	0.103	0.017	2.92E-10	14914

family.Bifidobacteriaceae.id.433	rs935613	C	T	0.084	0.013	2.63E-10	14915
family.Bifidobacteriaceae.id.433	rs4346445	A	C	0.102	0.017	2.30E-10	14914
family.Bifidobacteriaceae.id.433	rs10208624	C	T	0.101	0.017	2.26E-10	14915
family.Bifidobacteriaceae.id.433	rs7568525	G	A	0.102	0.017	2.11E-10	14915
family.Bifidobacteriaceae.id.433	rs2874739	C	T	0.103	0.017	1.71E-10	14915
family.Bifidobacteriaceae.id.433	rs10193348	A	G	0.103	0.017	1.70E-10	14915
family.Bifidobacteriaceae.id.433	rs1375132	A	G	0.085	0.013	1.49E-10	14913
family.Bifidobacteriaceae.id.433	rs12328663	T	C	0.103	0.017	1.19E-10	14915
family.Bifidobacteriaceae.id.433	rs1979033	G	A	0.075	0.012	1.05E-10	14911
family.Bifidobacteriaceae.id.433	rs2680880	T	A	0.080	0.012	9.86E-11	14915
family.Bifidobacteriaceae.id.433	rs10187402	C	G	0.086	0.013	9.54E-11	14910
family.Bifidobacteriaceae.id.433	rs62160860	G	C	0.116	0.018	7.86E-11	14912
family.Bifidobacteriaceae.id.433	rs1869829	A	G	0.086	0.013	6.87E-11	14915
family.Bifidobacteriaceae.id.433	rs12619365	C	T	0.088	0.013	5.99E-11	14915
family.Bifidobacteriaceae.id.433	rs13413639	C	A	0.088	0.013	5.78E-11	14915
family.Bifidobacteriaceae.id.433	rs11893318	T	C	0.115	0.018	5.47E-11	14914
family.Bifidobacteriaceae.id.433	rs2278683	A	C	0.115	0.018	5.39E-11	14914
family.Bifidobacteriaceae.id.433	rs7581382	T	C	-0.090	0.015	5.00E-11	13923
family.Bifidobacteriaceae.id.433	rs4954551	G	A	0.115	0.018	5.00E-11	14915
family.Bifidobacteriaceae.id.433	rs2322659	C	T	0.089	0.013	4.94E-11	14915
family.Bifidobacteriaceae.id.433	rs4954279	G	A	0.089	0.013	4.26E-11	14915
family.Bifidobacteriaceae.id.433	rs10192827	A	G	0.090	0.013	3.91E-11	14914
family.Bifidobacteriaceae.id.433	rs4954276	A	G	0.089	0.013	3.83E-11	14915
family.Bifidobacteriaceae.id.433	rs7608045	T	C	0.089	0.013	3.58E-11	14915
family.Bifidobacteriaceae.id.433	rs7587285	T	C	0.116	0.018	3.39E-11	14915
family.Bifidobacteriaceae.id.433	rs10928542	G	A	0.089	0.013	3.35E-11	14915
family.Bifidobacteriaceae.id.433	rs12469709	T	C	0.090	0.013	2.72E-11	14915
family.Bifidobacteriaceae.id.433	rs656326	A	C	0.090	0.013	2.34E-11	14915
family.Bifidobacteriaceae.id.433	rs6715856	T	C	0.090	0.013	2.26E-11	14915
family.Bifidobacteriaceae.id.433	rs6755383	C	T	0.090	0.013	2.25E-11	14915
family.Bifidobacteriaceae.id.433	rs11679508	T	A	0.090	0.013	2.21E-11	14915

family.Bifidobacteriaceae.id.433	rs10173394	T	C	0.091	0.013	2.21E-11	14915
family.Bifidobacteriaceae.id.433	rs12994270	A	T	0.091	0.013	2.13E-11	14915
family.Bifidobacteriaceae.id.433	rs313522	T	A	0.090	0.013	2.09E-11	14915
family.Bifidobacteriaceae.id.433	rs313523	G	A	0.090	0.013	2.08E-11	14915
family.Bifidobacteriaceae.id.433	rs932206	T	C	0.082	0.012	1.88E-11	14795
family.Bifidobacteriaceae.id.433	rs6720287	A	G	0.090	0.013	1.88E-11	14915
family.Bifidobacteriaceae.id.433	rs2034276	A	T	0.090	0.013	1.77E-11	14915
family.Bifidobacteriaceae.id.433	rs1446584	A	G	0.090	0.013	1.75E-11	14915
family.Bifidobacteriaceae.id.433	rs1470457	A	G	0.092	0.013	1.74E-11	14915
family.Bifidobacteriaceae.id.433	rs4954280	A	G	0.091	0.013	1.70E-11	14915
family.Bifidobacteriaceae.id.433	rs3213889	G	A	0.091	0.013	1.68E-11	14915
family.Bifidobacteriaceae.id.433	rs7355359	T	C	0.091	0.013	1.50E-11	14915
family.Bifidobacteriaceae.id.433	rs12998387	G	A	0.091	0.013	1.50E-11	14915
family.Bifidobacteriaceae.id.433	rs313517	A	G	0.091	0.013	1.38E-11	14915
family.Bifidobacteriaceae.id.433	rs313524	C	T	0.091	0.013	1.33E-11	14915
family.Bifidobacteriaceae.id.433	rs13412397	A	G	0.091	0.013	1.33E-11	14915
family.Bifidobacteriaceae.id.433	rs28453840	A	G	0.092	0.013	1.24E-11	14915
family.Bifidobacteriaceae.id.433	rs10195620	T	A	0.092	0.013	1.21E-11	14915
family.Bifidobacteriaceae.id.433	rs1438304	G	A	0.092	0.013	1.18E-11	14915
family.Bifidobacteriaceae.id.433	rs10928546	T	C	0.092	0.013	1.18E-11	14915
family.Bifidobacteriaceae.id.433	rs1438307	T	G	0.092	0.013	1.16E-11	14915
family.Bifidobacteriaceae.id.433	rs313526	C	T	0.091	0.013	1.09E-11	14915
family.Bifidobacteriaceae.id.433	rs12998016	T	C	0.092	0.013	1.05E-11	14915
family.Bifidobacteriaceae.id.433	rs313528	G	A	0.091	0.013	1.04E-11	14915
family.Bifidobacteriaceae.id.433	rs313518	C	T	0.092	0.013	1.03E-11	14915
family.Bifidobacteriaceae.id.433	rs11684545	T	G	0.092	0.013	1.02E-11	14915
family.Bifidobacteriaceae.id.433	rs11679933	T	G	0.087	0.013	1.00E-11	14911
family.Bifidobacteriaceae.id.433	rs10202489	A	G	0.092	0.013	9.56E-12	14915
family.Bifidobacteriaceae.id.433	rs71348714	A	G	0.092	0.013	9.53E-12	14915
family.Bifidobacteriaceae.id.433	rs1438305	G	C	0.092	0.013	9.19E-12	14915
family.Bifidobacteriaceae.id.433	rs6430589	C	G	0.092	0.013	9.08E-12	14914

family.Bifidobacteriaceae.id.433	rs71348715	T	G	0.092	0.013	8.94E-12	14915
family.Bifidobacteriaceae.id.433	rs1011361	A	G	0.092	0.013	8.86E-12	14915
family.Bifidobacteriaceae.id.433	rs313519	A	C	0.092	0.013	8.33E-12	14915
family.Bifidobacteriaceae.id.433	rs2082729	T	C	0.093	0.013	6.59E-12	14915
family.Bifidobacteriaceae.id.433	rs11693502	T	C	0.088	0.013	4.47E-12	14914
family.Bifidobacteriaceae.id.433	rs3739020	T	G	0.095	0.013	3.46E-12	14912
family.Bifidobacteriaceae.id.433	rs17261772	T	C	0.095	0.013	1.55E-12	14795
family.Bifidobacteriaceae.id.433	rs748841	T	C	0.094	0.013	1.26E-12	14915
family.Bifidobacteriaceae.id.433	rs2011946	A	C	0.090	0.013	1.21E-12	14911
family.Bifidobacteriaceae.id.433	rs2164210	C	T	0.094	0.013	1.14E-12	14915
family.Bifidobacteriaceae.id.433	rs6742283	G	A	0.095	0.013	1.13E-12	14913
family.Bifidobacteriaceae.id.433	rs2322660	T	C	0.095	0.013	9.97E-13	14915
family.Bifidobacteriaceae.id.433	rs12988076	A	C	0.095	0.013	8.81E-13	14915
family.Bifidobacteriaceae.id.433	rs749873	T	C	0.090	0.012	8.79E-13	14915
family.Bifidobacteriaceae.id.433	rs892715	C	T	0.095	0.013	7.89E-13	14915
family.Bifidobacteriaceae.id.433	rs6719488	T	G	0.096	0.013	6.53E-13	14915
family.Bifidobacteriaceae.id.433	rs745500	A	G	0.096	0.013	6.29E-13	14915
family.Bifidobacteriaceae.id.433	rs12475139	T	A	0.094	0.013	5.51E-13	14795
family.Bifidobacteriaceae.id.433	rs3769005	G	C	0.096	0.013	5.29E-13	14915
family.Bifidobacteriaceae.id.433	rs3754686	C	T	0.097	0.013	2.82E-13	14915
family.Bifidobacteriaceae.id.433	rs12620033	G	C	0.098	0.013	1.68E-13	14915
family.Bifidobacteriaceae.id.433	rs2236783	A	G	0.099	0.013	1.15E-13	14915
family.Bifidobacteriaceae.id.433	rs11681248	T	C	0.094	0.012	9.61E-14	14910
family.Bifidobacteriaceae.id.433	rs4954490	A	G	0.100	0.013	5.25E-14	14911
family.Bifidobacteriaceae.id.433	rs309137	T	C	0.099	0.013	5.22E-14	14915
family.Bifidobacteriaceae.id.433	rs4988183	T	C	0.102	0.013	5.12E-14	14915
family.Bifidobacteriaceae.id.433	rs309149	C	T	0.101	0.013	4.39E-14	14915
family.Bifidobacteriaceae.id.433	rs6716536	C	T	0.098	0.013	3.56E-14	14795
family.Bifidobacteriaceae.id.433	rs309164	T	C	0.103	0.013	1.74E-14	14915
family.Bifidobacteriaceae.id.433	rs1561277	C	A	0.100	0.013	1.28E-14	14795
family.Bifidobacteriaceae.id.433	rs309125	C	T	0.103	0.013	6.64E-15	14915

family.Bifidobacteriaceae.id.433	rs12615624	A	G	0.105	0.013	4.78E-15	14915
family.Bifidobacteriaceae.id.433	rs6759321	G	T	0.101	0.013	4.00E-15	14795
family.Bifidobacteriaceae.id.433	rs632632	T	C	0.105	0.013	2.42E-15	14915
family.Bifidobacteriaceae.id.433	rs309180	A	G	0.105	0.013	1.36E-15	14915
family.Bifidobacteriaceae.id.433	rs309134	G	A	0.107	0.013	1.35E-15	14915
family.Bifidobacteriaceae.id.433	rs218174	A	G	0.107	0.013	7.25E-16	14914
family.Bifidobacteriaceae.id.433	rs309168	C	T	0.107	0.013	5.10E-16	14915
family.Bifidobacteriaceae.id.433	rs309160	C	T	0.108	0.013	3.14E-16	14915
family.Bifidobacteriaceae.id.433	rs13023281	T	C	-0.106	0.013	1.12E-16	13923
family.Bifidobacteriaceae.id.433	rs13404551	T	C	0.110	0.013	7.02E-17	14913
family.Bifidobacteriaceae.id.433	rs687670	T	C	0.111	0.013	2.49E-17	14915
family.Bifidobacteriaceae.id.433	rs12465802	G	A	0.110	0.013	6.15E-18	14915
family.Bifidobacteriaceae.id.433	rs1446585	A	G	0.112	0.013	4.82E-18	14795
family.Bifidobacteriaceae.id.433	rs6730157	A	G	0.109	0.013	4.20E-18	14915
family.Bifidobacteriaceae.id.433	rs1375131	T	C	0.110	0.013	3.94E-18	14914
family.Bifidobacteriaceae.id.433	rs36084664	A	G	-0.113	0.014	1.45E-18	13923
family.Bifidobacteriaceae.id.433	rs6754311	T	C	0.113	0.013	8.77E-19	14914
family.Bifidobacteriaceae.id.433	rs7570971	C	A	0.113	0.013	2.53E-19	14795
family.Bifidobacteriaceae.id.433	rs4988235	A	G	0.116	0.013	1.30E-19	14915
family.Bifidobacteriaceae.id.433	rs182549	T	C	0.117	0.013	5.94E-20	14915
genus.Butyrivibrio.id.1993	rs11658561	T	C	0.118	0.027	1.00E-05	3259
genus.RuminococcaceaeUCG014.id.11371	rs162748	C	T	-0.057	0.013	1.00E-05	14398
genus.Oxalobacter.id.2978	rs16845257	C	T	0.154	0.034	1.00E-05	4655
genus.Senegalimassilia.id.11160	rs55689333	C	T	0.077	0.017	1.00E-05	6923
genus.Ruminiclostridium5.id.11355	rs10848557	G	T	-0.048	0.011	1.00E-05	17392
genus.ErysipelotrichaceaeUCG003.id.11384	rs6507884	A	G	-0.094	0.021	9.99E-06	14432
genus.ChristensenellaceaeR.7group.id.11283	rs7343112	C	T	0.049	0.011	9.99E-06	16325
genus.Odoribacter.id.952	rs76966798	A	G	-0.119	0.027	9.99E-06	11934
genus.ErysipelotrichaceaeUCG003.id.11384	rs73074432	T	C	0.072	0.016	9.99E-06	14217
genus.Roseburia.id.2012	rs55858165	C	A	0.179	0.040	9.99E-06	5447
genus..Ruminococcusgnavusgroup.id.14376	rs6863988	T	A	-0.088	0.020	9.99E-06	6401

genus.Holdemania.id.2157	rs76426015	G	T	-0.128	0.028	9.99E-06	8296
genus.Holdemania.id.2157	rs79845664	G	A	-0.128	0.028	9.99E-06	8296
genus.LachnospiraceaeUCG004.id.11324	rs984647	T	G	0.054	0.012	9.98E-06	14457
genus.Roseburia.id.2012	rs78753150	C	A	0.097	0.021	9.98E-06	16303
genus.Alistipes.id.968	rs11766494	C	T	-0.048	0.011	9.98E-06	17571
genus.RuminococcaceaeUCG002.id.11360	rs7985747	G	A	-0.076	0.017	9.98E-06	16376
genus.CandidatusSoleaferrea.id.11350	rs12681352	C	T	-0.088	0.020	9.98E-06	6140
genus.RikenellaceaeRC9gutgroup.id.11191	rs13237112	T	C	-0.117	0.027	9.97E-06	3220
genus.Howardella.id.2000	rs2154047	A	C	-0.193	0.042	9.97E-06	3623
genus.Peptococcus.id.2037	rs12147893	A	G	0.104	0.024	9.96E-06	5483
genus.RuminococcaceaeUCG014.id.11371	rs10495392	T	C	-0.082	0.019	9.96E-06	13902
genus.Ruminiclostridium9.id.11357	rs10444611	G	A	0.067	0.015	9.96E-06	16725
genus.Butyrvibrio.id.1993	rs34435489	T	C	-0.107	0.024	9.96E-06	3482
genus.Tyzzereella3.id.11335	rs80174235	G	C	-0.213	0.048	9.96E-06	3857
genus.Ruminiclostridium9.id.11357	rs7629341	G	C	-0.049	0.011	9.96E-06	16722
genus.Sutterella.id.2896	rs9537916	G	A	-0.056	0.013	9.96E-06	12843
genus.Desulfobivrio.id.3173	rs7729080	A	C	-0.070	0.016	9.96E-06	9241
genus.Terrisporobacter.id.11348	rs10982246	G	A	-0.077	0.017	9.96E-06	6637
genus.Ruminiclostridium5.id.11355	rs4955951	G	A	-0.071	0.017	9.96E-06	17397
genus.LachnospiraceaeFCS020group.id.11314	rs9290282	G	A	0.054	0.012	9.95E-06	13772
genus.Akkermansia.id.4037	rs11184340	A	G	0.063	0.014	9.95E-06	11863
genus.Coprococcus2.id.11302	rs12634070	C	T	0.074	0.016	9.95E-06	11457
genus.Allisonella.id.2174	rs3747507	G	A	0.137	0.030	9.95E-06	3212
genus.Prevotella9.id.11183	rs4821647	C	G	0.064	0.014	9.95E-06	10179
genus.RuminococcaceaeUCG002.id.11360	rs10898505	T	C	0.062	0.015	9.94E-06	17097
genus.unknowngenus.id.2755	rs11598143	T	C	0.069	0.016	9.94E-06	8456
genus.Fusicatenibacter.id.11305	rs6014982	C	T	-0.064	0.015	9.94E-06	16542
genus.Oscillibacter.id.2063	rs744426	G	A	0.094	0.021	9.94E-06	8929
genus.Parasutterella.id.2892	rs1425371	T	C	-0.059	0.013	9.94E-06	11384
genus.Lactococcus.id.1851	rs72799262	G	C	-0.167	0.039	9.94E-06	4021
genus.Turicibacter.id.2162	rs74516356	A	T	0.095	0.022	9.94E-06	8948

genus.Victivallis.id.2256	rs2546432	C	T	-0.111	0.025	9.93E-06	3266
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs62025254	C	A	-0.079	0.018	9.93E-06	17273
genus.Ruminiclostridium9.id.11357	rs4679821	G	A	-0.049	0.011	9.93E-06	16722
genus.unknowngenus.id.1000005472	rs3932485	T	C	0.063	0.014	9.93E-06	10359
genus.Sellimonas.id.14369	rs7182917	T	C	0.111	0.025	9.93E-06	3154
genus.Prevotella9.id.11183	rs138897662	G	A	-0.175	0.039	9.93E-06	5728
genus.Eggerthella.id.819	rs1711441	G	T	0.088	0.020	9.93E-06	5147
genus.Romboutsia.id.11347	rs10893902	C	T	-0.071	0.016	9.93E-06	14185
genus.unknowngenus.id.1000006162	rs72671349	C	T	0.165	0.037	9.92E-06	4887
genus.Eubacteriumbrachygroup.id.11296	rs1409397	G	C	0.101	0.023	9.92E-06	4000
genus.LachnospiraceaeUCG010.id.11330	rs2833528	T	C	-0.056	0.013	9.92E-06	13233
genus.RuminococcaceaeUCG003.id.11361	rs7839273	T	C	-0.059	0.013	9.92E-06	14412
genus.RuminococcaceaeUCG014.id.11371	rs61898819	T	A	0.061	0.014	9.92E-06	14325
genus.Anaerotruncus.id.2054	rs9594214	C	T	0.081	0.019	9.92E-06	16566
genus.Bilophila.id.3170	rs2713348	G	A	0.061	0.014	9.91E-06	12853
genus.Eubacteriumrectalegroup.id.14374	rs79970080	A	G	-0.095	0.022	9.91E-06	15610
genus.Akkermansia.id.4037	rs28613890	C	T	0.064	0.014	9.91E-06	11864
genus.Subdoligranulum.id.2070	rs6555308	T	C	-0.070	0.016	9.91E-06	17590
genus.RuminococcaceaeUCG003.id.11361	rs2287921	T	C	0.053	0.012	9.91E-06	14323
genus.Bifidobacterium.id.436	rs79769806	A	G	-0.081	0.018	9.91E-06	13806
genus.Butyricicoccus.id.2055	rs10174174	T	C	0.055	0.012	9.91E-06	17136
genus.Victivallis.id.2256	rs2104151	C	G	-0.117	0.026	9.90E-06	3267
genus.RikenellaceaeRC9gutgroup.id.11191	rs1079745	G	A	0.167	0.038	9.90E-06	3170
genus.Ruminococcus1.id.11373	rs6750529	T	C	0.057	0.013	9.90E-06	16607
genus.CandidatusSoleaferrea.id.11350	rs12197912	C	T	-0.120	0.028	9.90E-06	6145
genus.Ruminococcustorquesgroup.id.14377	rs9901465	C	T	0.047	0.011	9.90E-06	17798
genus.Turicibacter.id.2162	rs111931312	G	A	0.095	0.022	9.90E-06	8927
genus.Turicibacter.id.2162	rs113340666	G	A	0.095	0.022	9.90E-06	8927
genus.Hungatella.id.11306	rs36087611	G	A	-0.151	0.033	9.90E-06	3949
genus.Eubacteriumrectalegroup.id.14374	rs62547233	G	A	0.054	0.012	9.90E-06	17347
genus.Anaerostipes.id.1991	rs882172	A	G	0.050	0.011	9.89E-06	16926

genus.CandidatusSoleaferrea.id.11350	rs74214552	C	G	0.102	0.024	9.89E-06	5958
genus.Lactococcus.id.1851	rs10423422	C	T	0.110	0.025	9.89E-06	4057
genus.Butyrvibrio.id.1993	rs56827	T	C	-0.107	0.024	9.89E-06	3482
genus.Turicibacter.id.2162	rs112044427	G	C	-0.118	0.027	9.88E-06	8314
genus.LachnospiraceaeNK4A136group.id.11319	rs12894973	C	T	-0.052	0.012	9.88E-06	17236
genus.Bifidobacterium.id.436	rs13399952	G	A	0.053	0.012	9.88E-06	14778
genus.Sellimonas.id.14369	rs11686065	G	C	-0.131	0.030	9.88E-06	3095
genus.Parasutterella.id.2892	rs62273910	A	G	0.224	0.050	9.88E-06	3691
genus.RuminococcaceaeUCG003.id.11361	rs4481546	T	C	-0.059	0.013	9.88E-06	14409
genus.Butyrvibrio.id.1993	rs1970323	T	C	0.114	0.026	9.88E-06	3472
genus.Romboutsia.id.11347	rs1372227	G	A	-0.069	0.016	9.87E-06	14188
genus.LachnospiraceaeNK4A136group.id.11319	rs301777	T	G	-0.049	0.011	9.87E-06	16764
genus.Streptococcus.id.1853	rs12218294	A	T	0.094	0.021	9.87E-06	15293
genus.Eubacteriumnodatumgroup.id.11297	rs1304116	T	C	0.120	0.027	9.87E-06	3294
genus.Ruminiclostridium9.id.11357	rs9522726	C	A	0.067	0.015	9.87E-06	16725
genus.Butyricimonas.id.945	rs2591757	C	G	0.063	0.014	9.87E-06	10734
genus.Lactococcus.id.1851	rs2384050	A	G	0.104	0.023	9.87E-06	4054
genus.LachnospiraceaeUCG001.id.11321	rs112698185	G	A	-0.079	0.018	9.87E-06	10149
genus.RuminococcaceaeUCG013.id.11370	rs7823627	G	C	-0.049	0.011	9.87E-06	16772
genus.LachnospiraceaeNK4A136group.id.11319	rs1564382	G	A	0.048	0.011	9.86E-06	17235
genus.Enterorhabdus.id.820	rs7002267	C	A	0.131	0.030	9.86E-06	7361
genus.Enterorhabdus.id.820	rs7003110	G	A	0.131	0.030	9.86E-06	7361
genus.Lactococcus.id.1851	rs12712304	A	C	0.107	0.024	9.86E-06	4058
genus.Intestinimonas.id.2062	rs9823439	C	T	-0.058	0.013	9.86E-06	11766
genus.Ruminococcus2.id.11374	rs2997408	T	C	-0.055	0.012	9.86E-06	15336
genus.Olsenella.id.822	rs7557702	A	G	-0.103	0.023	9.86E-06	3739
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs2644213	A	G	0.054	0.012	9.86E-06	17380
genus.Erysipelatoclostridium.id.11381	rs3804326	G	A	0.141	0.034	9.85E-06	7028
genus.Howardella.id.2000	rs61771801	C	G	-0.132	0.030	9.85E-06	3612
genus.LachnospiraceaeUCG010.id.11330	rs72894979	C	G	0.217	0.049	9.85E-06	4316
genus.LachnospiraceaeUCG010.id.11330	rs72894978	C	G	0.217	0.049	9.85E-06	4316

genus.Anaerotruncus.id.2054	rs34449434	C	A	-0.050	0.011	9.85E-06	16117
genus.Prevotella7.id.11182	rs60261717	G	T	0.143	0.033	9.85E-06	3318
genus.Ruminococcus1.id.11373	rs10734537	G	C	-0.050	0.011	9.85E-06	16597
genus.RuminococcaceaeUCG014.id.11371	rs142598371	C	T	-0.057	0.013	9.85E-06	14331
genus.LachnospiraceaeUCG004.id.11324	rs62256516	A	G	0.059	0.013	9.85E-06	14026
genus.Eisenbergiella.id.11304	rs12710729	A	C	0.089	0.020	9.84E-06	5583
genus.Dorea.id.1997	rs12451419	G	A	0.048	0.011	9.84E-06	17601
genus.Butyricoccus.id.2055	rs7593240	G	A	0.055	0.012	9.84E-06	17136
genus.RuminococcaceaeUCG002.id.11360	rs73561239	C	T	-0.076	0.017	9.84E-06	16370
genus.unknowngenus.id.959	rs1480304	A	T	0.120	0.027	9.84E-06	4868
genus.LachnospiraceaeUCG004.id.11324	rs2706242	C	G	-0.090	0.020	9.84E-06	14026
genus.Alistipes.id.968	rs6964425	T	C	-0.048	0.011	9.84E-06	17571
genus.Oscillibacter.id.2063	rs4981915	C	G	-0.067	0.015	9.84E-06	8930
genus.Ruminococcusgavreuiiigroup.id.11342	rs12189268	T	C	-0.087	0.020	9.83E-06	12738
genus.Ruminiclostridium9.id.11357	rs147750803	C	A	-0.049	0.011	9.83E-06	16722
genus.LachnospiraceaeUCG008.id.11328	rs75356640	A	G	0.137	0.030	9.83E-06	6423
genus.Allisonella.id.2174	rs538601	G	A	0.112	0.025	9.83E-06	3212
genus.Anaerotruncus.id.2054	rs3915228	T	C	-0.064	0.015	9.83E-06	16117
genus.Actinomyces.id.423	rs71315246	G	A	-0.097	0.022	9.83E-06	7468
genus.FamilyXIIIAD3011group.id.11293	rs9876329	C	T	0.059	0.013	9.83E-06	14201
genus.RuminococcaceaeUCG013.id.11370	rs2565137	T	C	-0.049	0.011	9.83E-06	16771
genus.ChristensenellaceaeR.7group.id.11283	rs2188618	A	T	0.049	0.011	9.83E-06	16324
genus.Erysipelatoclostridium.id.11381	rs2362838	G	C	-0.066	0.015	9.82E-06	9783
genus.RuminococcaceaeUCG014.id.11371	rs460442	C	A	-0.057	0.013	9.82E-06	14403
genus.Faecalibacterium.id.2057	rs10519101	T	C	0.048	0.011	9.82E-06	18087
genus.ChristensenellaceaeR.7group.id.11283	rs11881855	G	A	0.055	0.012	9.82E-06	16325
genus.LachnospiraceaeNK4A136group.id.11319	rs301772	C	T	0.048	0.011	9.82E-06	17236
genus.Tyzzereella3.id.11335	rs1957839	C	T	-0.110	0.025	9.81E-06	5394
genus.RuminococcaceaeUCG002.id.11360	rs6793778	T	C	-0.056	0.013	9.81E-06	17094
genus.Anaerofilum.id.2053	rs4244069	A	G	-0.147	0.033	9.81E-06	5030
genus.RuminococcaceaeUCG014.id.11371	rs332724	C	T	-0.057	0.013	9.81E-06	14403

genus.Olsenella.id.822	rs11674257	G	C	-0.105	0.024	9.81E-06	3739
genus.RuminococcaceaeUCG009.id.11366	rs138460696	G	A	0.139	0.032	9.81E-06	6865
genus.RuminococcaceaeUCG014.id.11371	rs34402072	T	C	-0.069	0.016	9.80E-06	13863
genus.Olsenella.id.822	rs11673945	C	T	-0.105	0.024	9.80E-06	3739
genus.FamilyXIIIUCG001.id.11294	rs61809296	G	A	-0.111	0.025	9.80E-06	12257
genus.Dorea.id.1997	rs1437569	A	G	0.050	0.011	9.80E-06	17610
genus.Allisonella.id.2174	rs12378350	T	C	0.133	0.030	9.80E-06	3212
genus.RuminococcaceaeUCG004.id.11362	rs72830173	A	G	-0.078	0.018	9.79E-06	9502
genus.Ruminococcus2.id.11374	rs12406309	C	A	-0.063	0.014	9.79E-06	15339
genus.RuminococcaceaeUCG003.id.11361	rs4939837	G	A	0.054	0.012	9.79E-06	14397
genus.ChristensenellaceaeR.7group.id.11283	rs12983481	T	C	0.055	0.012	9.79E-06	16325
genus.Bifidobacterium.id.436	rs62287783	G	A	0.053	0.012	9.79E-06	14778
genus.RuminococcaceaeUCG010.id.11367	rs7661237	A	G	-0.055	0.012	9.79E-06	12875
genus.Eubacteriumventriosumgroup.id.11341	rs13409418	T	G	0.081	0.019	9.78E-06	14835
genus.Subdoligranulum.id.2070	rs72793514	A	G	-0.142	0.031	9.78E-06	8468
genus.Akkermansia.id.4037	rs12904881	G	A	0.058	0.013	9.78E-06	11864
genus.LachnospiraceaeFCS020group.id.11314	rs17522496	C	T	-0.078	0.017	9.78E-06	13717
genus.Lactobacillus.id.1837	rs11619768	G	A	-0.100	0.022	9.78E-06	6655
genus.Coprococcus1.id.11301	rs9351863	G	C	-0.049	0.011	9.78E-06	16732
genus.Butyrvibrio.id.1993	rs7222581	A	G	0.118	0.027	9.77E-06	3259
genus.Oscillibacter.id.2063	rs56246833	C	T	-0.080	0.018	9.77E-06	8528
genus.Bifidobacterium.id.436	rs4908116	C	T	-0.147	0.033	9.77E-06	8774
genus.Adlercreutzia.id.812	rs6811381	G	T	-0.079	0.018	9.77E-06	8243
genus.RuminococcaceaeUCG014.id.11371	rs10791168	G	A	-0.066	0.015	9.76E-06	14403
genus.FamilyXIIIAD3011group.id.11293	rs28594460	A	G	0.070	0.016	9.76E-06	14200
genus.RuminococcaceaeUCG014.id.11371	rs62478831	T	C	-0.057	0.013	9.76E-06	14331
genus.Bifidobacterium.id.436	rs62287778	T	C	0.053	0.012	9.76E-06	14776
genus.Parabacteroides.id.954	rs6657302	C	T	-0.105	0.023	9.76E-06	16552
genus.RuminococcaceaeUCG014.id.11371	rs853612	G	A	-0.053	0.012	9.75E-06	14403
genus.Eubacteriumrectalegroup.id.14374	rs143694765	C	T	0.087	0.020	9.75E-06	15124
genus.Eubacteriumfissicatengroup.id.14373	rs6934739	G	A	0.111	0.025	9.75E-06	3831

genus.Dorea.id.1997	rs3005514	T	G	0.050	0.011	9.75E-06	17610
genus.Streptococcus.id.1853	rs2370083	T	G	-0.082	0.019	9.75E-06	16277
genus.LachnospiraceaeNK4A136group.id.11319	rs12515958	C	T	-0.051	0.012	9.75E-06	17236
genus.Olsenella.id.822	rs1980504	A	C	0.119	0.027	9.75E-06	3705
genus.LachnospiraceaeNC2004group.id.11316	rs12208226	A	C	-0.155	0.034	9.75E-06	5620
genus.LachnospiraceaeUCG004.id.11324	rs8011680	C	G	0.056	0.013	9.75E-06	14458
genus.Veillonella.id.2198	rs11141494	A	G	-0.078	0.017	9.75E-06	9291
genus.Adlercreutzia.id.812	rs11604400	T	C	-0.103	0.023	9.74E-06	8107
genus.Butyrvibrio.id.1993	rs6702967	T	C	0.176	0.039	9.74E-06	3482
genus.Parasutterella.id.2892	rs62273912	C	T	0.224	0.050	9.74E-06	3691
genus.Parasutterella.id.2892	rs62273914	G	T	0.224	0.050	9.74E-06	3691
genus.Eubacteriumeligensgroup.id.14372	rs158115	C	G	0.092	0.019	9.74E-06	14678
genus.Ruminococcusgavreuiiigroup.id.11342	rs289416	T	C	-0.062	0.014	9.74E-06	13380
genus.Methanobrevibacter.id.123	rs4802933	G	A	-0.136	0.031	9.74E-06	3586
genus.Lachnoclostridium.id.11308	rs4814838	A	G	-0.048	0.011	9.73E-06	17842
genus.Odoribacter.id.952	rs11041014	G	A	0.067	0.015	9.73E-06	14691
genus.Coprococcus3.id.11303	rs2001666	G	C	-0.065	0.015	9.73E-06	15833
genus.Eubacteriumruminantiumgroup.id.11340	rs11684485	C	T	-0.073	0.016	9.72E-06	7739
genus.Phascolarctobacterium.id.2168	rs7982713	A	G	0.073	0.016	9.72E-06	10710
genus.RuminococcaceaeUCG003.id.11361	rs139730	C	G	-0.058	0.013	9.72E-06	14004
genus.Prevootella7.id.11182	rs9426434	C	T	-0.124	0.028	9.72E-06	3318
genus.LachnospiraceaeUCG010.id.11330	rs72894963	G	A	0.217	0.049	9.72E-06	4316
genus.FamilyXIIIAD3011group.id.11293	rs12185072	C	T	0.071	0.016	9.71E-06	14201
genus.Ruminococcusstorquesgroup.id.14377	rs13155135	A	G	0.056	0.013	9.71E-06	17797
genus.DefluviitaleaceaeUCG011.id.11287	rs35251672	G	T	0.079	0.018	9.71E-06	8182
genus.Intestinimonas.id.2062	rs1000888	G	C	-0.059	0.013	9.71E-06	12090
genus.RuminococcaceaeUCG004.id.11362	rs6545749	C	G	0.065	0.015	9.71E-06	9500
genus.unknowngenus.id.959	rs10082444	T	C	-0.114	0.026	9.71E-06	4868
genus.Parasutterella.id.2892	rs7133267	T	C	-0.072	0.016	9.71E-06	10982
genus.Dialister.id.2183	rs4725397	C	T	0.065	0.015	9.71E-06	11982
genus.Parasutterella.id.2892	rs2190569	A	G	-0.063	0.014	9.71E-06	11386

genus.Escherichia.Shigella.id.3504	rs57024273	C	T	0.063	0.014	9.70E-06	11853
genus.Sutterella.id.2896	rs10444649	C	T	-0.055	0.012	9.70E-06	13254
genus.unknowngenus.id.1000005472	rs4524269	C	T	0.088	0.020	9.70E-06	10358
genus.Olsenella.id.822	rs8066522	A	G	-0.107	0.024	9.70E-06	3739
genus.LachnospiraceaeUCG001.id.11321	rs12817350	A	G	-0.076	0.017	9.70E-06	10143
genus.Paraprevotella.id.962	rs55906120	G	A	-0.121	0.027	9.70E-06	7134
genus.Coprococcus3.id.11303	rs56112306	G	A	0.055	0.012	9.70E-06	15834
genus.RuminococcaceaeNK4A214group.id.11358	rs6045163	C	T	-0.104	0.023	9.69E-06	14009
genus.Hungatella.id.11306	rs13249325	G	T	-0.100	0.023	9.69E-06	4209
genus.Victivallis.id.2256	rs911672	A	G	-0.117	0.026	9.69E-06	3267
genus.Alistipes.id.968	rs8118820	A	T	-0.063	0.014	9.69E-06	17490
genus.CandidatusSoleaferrea.id.11350	rs12679756	G	A	-0.083	0.019	9.69E-06	5999
genus.Victivallis.id.2256	rs911673	T	C	-0.117	0.026	9.69E-06	3267
genus.Barnesiella.id.944	rs28827481	C	T	-0.091	0.021	9.69E-06	12401
genus.Eubacteriumrectalegroup.id.14374	rs58498416	T	C	-0.052	0.012	9.68E-06	17350
genus.Collinsella.id.815	rs2660968	A	G	0.067	0.015	9.68E-06	14334
genus.Butyricimonas.id.945	rs113040517	C	G	-0.070	0.016	9.68E-06	10557
genus.RuminococcaceaeUCG013.id.11370	rs652806	C	A	-0.049	0.011	9.68E-06	16768
genus.RuminococcaceaeUCG014.id.11371	rs458026	G	A	-0.057	0.013	9.68E-06	14403
genus.RuminococcaceaeUCG013.id.11370	rs523167	T	G	-0.049	0.011	9.67E-06	16766
genus.RuminococcaceaeUCG009.id.11366	rs78410648	G	A	0.121	0.028	9.67E-06	7510
genus.RuminococcaceaeUCG003.id.11361	rs4330642	T	C	-0.059	0.013	9.67E-06	14409
genus.Ruminiclostridium9.id.11357	rs7629021	T	G	-0.049	0.011	9.67E-06	16722
genus.Akkermansia.id.4037	rs76564762	C	T	0.104	0.024	9.67E-06	11215
genus.Methanobrevibacter.id.123	rs1889567	C	T	0.114	0.026	9.66E-06	3586
genus.Tyzzereella3.id.11335	rs76361865	C	T	-0.125	0.027	9.66E-06	5396
genus.LachnospiraceaeNK4A136group.id.11319	rs943881	T	C	-0.052	0.012	9.66E-06	17236
genus.Oscillospira.id.2064	rs75570604	G	C	0.137	0.031	9.66E-06	8200
genus.Eggerthella.id.819	rs1711399	T	G	0.088	0.020	9.66E-06	5147
genus.LachnospiraceaeUCG001.id.11321	rs10976175	G	A	-0.064	0.014	9.65E-06	10150
genus.Eggerthella.id.819	rs1711434	T	C	0.088	0.020	9.65E-06	5147

genus.Escherichia.Shigella.id.3504	rs117092367	T	A	0.117	0.026	9.65E-06	10304
genus..Ruminococcustorquesgroup.id.14377	rs8141465	G	A	0.048	0.011	9.65E-06	17791
genus..Eubacteriumnodatumgroup.id.11297	rs11256291	T	C	0.152	0.034	9.65E-06	3295
genus.RuminococcaceaeUCG014.id.11371	rs62354544	G	T	-0.113	0.026	9.64E-06	12674
genus.RuminococcaceaeUCG013.id.11370	rs7092659	T	C	-0.058	0.013	9.64E-06	16770
genus.Lachnoclostridium.id.11308	rs1528479	A	G	-0.050	0.011	9.64E-06	17477
genus.Alistipes.id.968	rs8188507	C	T	-0.048	0.011	9.64E-06	17570
genus.Prevotella7.id.11182	rs16937247	C	G	0.146	0.035	9.64E-06	3486
genus.Coprococcus3.id.11303	rs11077359	C	T	-0.065	0.015	9.64E-06	15378
genus.RuminococcaceaeUCG013.id.11370	rs1729063	C	G	-0.053	0.012	9.64E-06	16470
genus..Ruminococcustorquesgroup.id.14377	rs6502381	A	G	0.047	0.011	9.63E-06	17798
genus.Anaerotruncus.id.2054	rs6772640	G	A	-0.060	0.014	9.63E-06	16565
genus..Ruminococcusgnavusgroup.id.14376	rs10942121	G	A	-0.094	0.021	9.63E-06	6326
genus..Ruminococcustorquesgroup.id.14377	rs507711	C	T	-0.047	0.011	9.63E-06	17797
genus.RuminococcaceaeUCG013.id.11370	rs9565218	T	C	-0.053	0.012	9.63E-06	16772
genus.Senegalimassilia.id.11160	rs1809460	C	T	0.078	0.018	9.63E-06	6923
genus.Bifidobacterium.id.436	rs7600925	A	G	0.093	0.020	9.63E-06	14778
genus.Paraprevotella.id.962	rs4471727	T	A	-0.078	0.017	9.62E-06	7178
genus.Haemophilus.id.3698	rs12876183	A	T	0.075	0.017	9.62E-06	9110
genus.Actinomyces.id.423	rs10787984	C	G	0.094	0.021	9.62E-06	7468
genus.RuminococcaceaeUCG014.id.11371	rs332654	A	G	-0.057	0.013	9.62E-06	14403
genus.LachnospiraceaeFCS020group.id.11314	rs74515302	G	A	-0.101	0.024	9.62E-06	13237
genus.Slackia.id.825	rs75626975	C	T	-0.115	0.026	9.62E-06	6063
genus.Lachnoclostridium.id.11308	rs2179821	T	G	-0.048	0.011	9.61E-06	17842
genus.Dialister.id.2183	rs764177	A	C	-0.060	0.014	9.61E-06	11988
genus.Adlercreutzia.id.812	rs55719207	A	G	-0.070	0.016	9.61E-06	8243
genus.Flavonifractor.id.2059	rs216583	G	A	0.063	0.014	9.60E-06	10490
genus.Eggerthella.id.819	rs1615443	A	G	0.088	0.020	9.60E-06	5147
genus.RuminococcaceaeUCG004.id.11362	rs73089420	A	G	0.075	0.017	9.60E-06	9502
genus.Bacteroides.id.918	rs1340392	G	A	-0.058	0.013	9.60E-06	18302
genus.Butyricimonas.id.945	rs77723681	C	T	-0.143	0.033	9.60E-06	8207

genus.Eisenbergiella.id.11304	rs13264385	C	T	0.100	0.022	9.59E-06	5582
genus.Barnesiella.id.944	rs3816345	C	T	0.098	0.021	9.59E-06	14209
genus.Actinomyces.id.423	rs35110659	G	T	0.077	0.017	9.59E-06	7424
genus.Holdemania.id.2157	rs117042274	A	C	-0.129	0.029	9.58E-06	8432
genus.CandidatusSoleaferrea.id.11350	rs830149	G	C	0.185	0.040	9.58E-06	5065
genus.Dorea.id.1997	rs1595344	G	A	0.050	0.011	9.58E-06	17610
genus.Dialister.id.2183	rs6575890	C	T	-0.112	0.026	9.58E-06	10968
genus.Butyricococcus.id.2055	rs12034718	G	A	0.070	0.016	9.58E-06	16237
genus.Lactococcus.id.1851	rs34910182	G	A	0.103	0.023	9.58E-06	4056
genus.Lachnoclostridium.id.11308	rs6498001	T	C	0.047	0.011	9.57E-06	17922
genus.Lachnoclostridium.id.11308	rs12566975	C	T	-0.047	0.011	9.57E-06	17921
genus.Fusicatenibacter.id.11305	rs11172519	G	T	-0.059	0.013	9.57E-06	17383
genus.Coprococcus3.id.11303	rs10265310	T	A	0.059	0.013	9.57E-06	15149
genus.RuminococcaceaeUCG014.id.11371	rs10512621	A	G	-0.098	0.022	9.57E-06	13760
genus.Enterorhabdus.id.820	rs6740767	T	C	0.127	0.029	9.56E-06	7524
genus.Intestinibacter.id.11345	rs10790752	C	G	-0.132	0.030	9.56E-06	10333
genus.Streptococcus.id.1853	rs10025825	A	G	-0.091	0.019	9.56E-06	16311
genus.Eubacteriumventriosumgroup.id.11341	rs13082419	T	C	-0.072	0.016	9.56E-06	14501
genus.RuminococcaceaeUCG002.id.11360	rs1044813	G	C	-0.055	0.013	9.56E-06	17091
genus.Copro bacter.id.949	rs28402691	C	T	0.111	0.025	9.56E-06	6387
genus.LachnospiraceaeUCG008.id.11328	rs7932202	T	C	-0.086	0.019	9.55E-06	7015
genus.RuminococcaceaeUCG004.id.11362	rs12136421	C	G	0.120	0.027	9.55E-06	8938
genus.RuminococcaceaeUCG004.id.11362	rs7429237	G	A	0.075	0.017	9.55E-06	9502
genus.Subdoligranulum.id.2070	rs16861606	T	C	-0.051	0.012	9.55E-06	17590
genus.Bilophila.id.3170	rs10974873	T	C	0.066	0.015	9.55E-06	12856
genus.RuminococcaceaeUCG013.id.11370	rs9313055	C	T	0.105	0.023	9.55E-06	15764
genus.Turicibacter.id.2162	rs77854832	A	G	-0.124	0.028	9.55E-06	8316
genus.Methanobrevibacter.id.123	rs4385899	C	T	0.112	0.025	9.54E-06	3586
genus.Flavonifractor.id.2059	rs4949771	C	A	-0.067	0.015	9.54E-06	10805
genus.Paraprevotella.id.962	rs1487345	C	A	-0.100	0.023	9.54E-06	6900
genus.Terrisporobacter.id.11348	rs72944413	T	C	0.133	0.030	9.53E-06	6177

genus.Coprococcus2.id.11302	rs6894272	C	T	-0.113	0.025	9.53E-06	11001
genus.RikenellaceaeRC9gutgroup.id.11191	rs7796838	G	A	-0.117	0.027	9.53E-06	3220
genus.FamilyXIIIAD3011group.id.11293	rs61914210	A	G	-0.087	0.019	9.53E-06	13564
genus.Holdemania.id.2157	rs76084714	A	G	-0.129	0.029	9.53E-06	8432
genus.RuminococcaceaeUCG004.id.11362	rs1992963	C	T	0.076	0.017	9.53E-06	9502
genus.Oscillibacter.id.2063	rs179853	C	T	0.067	0.015	9.53E-06	8928
genus.Holdemania.id.2157	rs6762641	T	C	0.078	0.018	9.52E-06	9109
genus.Turicibacter.id.2162	rs28784121	C	T	0.095	0.021	9.52E-06	8949
genus.Oscillospira.id.2064	rs12924124	C	T	0.135	0.031	9.52E-06	8200
genus.Oxalobacter.id.2978	rs58504958	A	G	0.147	0.032	9.52E-06	4656
genus.Ruminiclostridium9.id.11357	rs17628958	G	C	-0.056	0.013	9.52E-06	16723
genus.Holdemania.id.2157	rs12701617	G	A	-0.066	0.015	9.52E-06	9106
genus.ErysipelotrichaceaeUCG003.id.11384	rs12251396	G	A	-0.071	0.016	9.52E-06	14211
genus.LachnospiraceaeNK4A136group.id.11319	rs169973	T	C	0.048	0.011	9.52E-06	17236
genus.Ruminiclostridium5.id.11355	rs2801961	A	G	0.051	0.012	9.51E-06	17388
genus.RikenellaceaeRC9gutgroup.id.11191	rs2418063	G	C	-0.134	0.030	9.50E-06	3320
genus.LachnospiraceaeUCG004.id.11324	rs12432325	A	T	0.054	0.012	9.50E-06	14466
genus.LachnospiraceaeFCS020group.id.11314	rs1440673	G	T	0.054	0.012	9.50E-06	13772
genus.Senegalimassilia.id.11160	rs2017373	T	C	0.078	0.018	9.50E-06	6923
genus.Roseburia.id.2012	rs12412854	C	G	0.047	0.011	9.50E-06	17847
genus.Eubacteriumhalliigroup.id.11338	rs10798998	C	G	0.058	0.013	9.50E-06	16567
genus.Howardella.id.2000	rs3791893	G	A	0.147	0.034	9.50E-06	3795
genus.Lachnoclostridium.id.11308	rs1006268	C	T	-0.048	0.011	9.49E-06	17840
genus.Preotella7.id.11182	rs12124567	G	A	-0.121	0.028	9.49E-06	3283
genus.Odoribacter.id.952	rs74553962	G	T	0.121	0.026	9.49E-06	11803
genus.Butyricimonas.id.945	rs56093015	T	C	0.066	0.015	9.48E-06	10736
genus.LachnospiraceaeUCG001.id.11321	rs7341608	C	T	-0.078	0.018	9.48E-06	9917
genus.Dialister.id.2183	rs7131542	G	A	0.101	0.023	9.48E-06	11989
genus.RikenellaceaeRC9gutgroup.id.11191	rs2095094	A	G	-0.134	0.030	9.47E-06	3320
genus.RuminococcaceaeUCG004.id.11362	rs58393072	A	T	-0.071	0.016	9.47E-06	9502
genus.Eubacteriumbrachygroup.id.11296	rs2559526	A	G	0.102	0.023	9.47E-06	4001

genus.Anaerofilum.id.2053	rs34258481	G	A	0.089	0.020	9.47E-06	5051
genus.ChristensenellaceaeR.7group.id.11283	rs62467076	A	G	0.109	0.025	9.47E-06	12719
genus.Lachnospira.id.2004	rs111843066	A	G	0.086	0.020	9.47E-06	15278
genus.LachnospiraceaeUCG008.id.11328	rs35561835	A	G	0.087	0.020	9.46E-06	7017
genus.Dialister.id.2183	rs75416973	G	A	0.073	0.016	9.46E-06	11402
genus.Clostridiumsensustricto1.id.1873	rs10804492	C	T	-0.061	0.014	9.46E-06	14121
genus.RuminococcaceaeUCG002.id.11360	rs15256	T	C	0.073	0.017	9.46E-06	17095
genus.Ruminococcustorquesgroup.id.14377	rs1465266	A	G	0.047	0.011	9.46E-06	17795
genus.CandidatusSoleaferrea.id.11350	rs2193878	A	T	0.228	0.051	9.46E-06	3088
genus.Gordonibacter.id.821	rs13033554	T	C	0.106	0.024	9.45E-06	3723
genus.Eubacteriumhalliigroup.id.11338	rs17474256	A	G	0.081	0.018	9.45E-06	16460
genus.Roseburia.id.2012	rs61815620	A	T	-0.077	0.018	9.45E-06	16945
genus.LachnospiraceaeNK4A136group.id.11319	rs59805249	C	T	0.094	0.021	9.45E-06	15195
genus.Terrisporobacter.id.11348	rs12462569	T	C	-0.078	0.018	9.45E-06	6630
genus.Fusicatenibacter.id.11305	rs61633745	A	G	-0.068	0.016	9.45E-06	16522
genus.RikenellaceaeRC9gutgroup.id.11191	rs2074881	C	T	-0.142	0.032	9.45E-06	3315
genus.Ruminococcustorquesgroup.id.14377	rs1558267	A	G	0.047	0.011	9.45E-06	17797
genus.Roseburia.id.2012	rs10462485	T	G	0.048	0.011	9.45E-06	17841
genus.LachnospiraceaeFCS020group.id.11314	rs9884451	A	T	0.055	0.012	9.45E-06	13542
genus.Subdoligranulum.id.2070	rs61986650	G	A	-0.049	0.011	9.44E-06	17591
genus.Faecalibacterium.id.2057	rs2835873	G	A	-0.086	0.020	9.44E-06	17567
genus.Anaerofilum.id.2053	rs7516037	A	T	0.093	0.021	9.44E-06	4935
genus.Methanobrevibacter.id.123	rs10830292	T	G	0.112	0.025	9.44E-06	3586
genus.Copro bacter.id.949	rs11073941	G	C	0.097	0.022	9.44E-06	6792
genus.LachnospiraceaeNK4A136group.id.11319	rs138322411	G	A	0.058	0.013	9.43E-06	17236
genus.Butyrlicimonas.id.945	rs72814526	A	G	0.066	0.015	9.43E-06	10736
genus.RuminococcaceaeUCG004.id.11362	rs12528102	T	C	-0.079	0.018	9.43E-06	9502
genus.Intestinibacter.id.11345	rs72703449	C	A	-0.100	0.024	9.43E-06	12303
genus.Ruminococcusgnavusgroup.id.14376	rs7710079	T	C	-0.089	0.020	9.43E-06	6401
genus.RuminococcaceaeUCG004.id.11362	rs550351	C	A	0.079	0.018	9.43E-06	9498
genus.Oxalobacter.id.2978	rs58344363	A	C	0.146	0.032	9.43E-06	4656

genus.RikenellaceaeRC9gutgroup.id.11191	rs7941564	G	A	0.111	0.025	9.43E-06	3333
genus..Ruminococcustorquesgroup.id.14377	rs2466775	C	T	0.061	0.014	9.42E-06	17787
genus.RuminococcaceaeUCG005.id.11363	rs76205969	C	A	0.077	0.018	9.42E-06	15381
genus.RuminococcaceaeUCG009.id.11366	rs11577989	C	T	-0.129	0.029	9.42E-06	6865
genus.Ruminococcus2.id.11374	rs7693984	A	G	-0.103	0.024	9.42E-06	14154
genus..Eubacteriumeligensgroup.id.14372	rs73746881	C	T	0.110	0.025	9.42E-06	12891
genus.Allisonella.id.2174	rs34609282	C	T	0.134	0.030	9.42E-06	3212
genus.ChristensenellaceaeR.7group.id.11283	rs79150079	A	C	0.122	0.027	9.42E-06	11994
genus..Ruminococcusgavreuiiigroup.id.11342	rs58833244	G	C	0.067	0.015	9.42E-06	12829
genus.Akkermansia.id.4037	rs74399905	T	A	0.103	0.023	9.41E-06	11215
genus.Allisonella.id.2174	rs594561	T	C	0.112	0.025	9.41E-06	3212
genus.LachnospiraceaeUCG010.id.11330	rs28513422	G	A	0.084	0.019	9.41E-06	13234
genus.Lactobacillus.id.1837	rs9478791	T	C	0.133	0.030	9.41E-06	6841
genus.Peptococcus.id.2037	rs12351718	G	A	0.085	0.019	9.41E-06	5656
genus.CandidatusSoleaferrea.id.11350	rs12140117	A	C	0.102	0.023	9.41E-06	6145
genus.Intestinimonas.id.2062	rs62427239	A	C	0.163	0.037	9.41E-06	6385
genus.Ruminiclostridium5.id.11355	rs17028250	G	A	0.181	0.041	9.40E-06	3761
genus.Sellimonas.id.14369	rs113144620	A	G	-0.160	0.036	9.40E-06	3154
genus.Victivallis.id.2256	rs12203075	A	G	0.110	0.025	9.40E-06	3264
genus.Odoribacter.id.952	rs150771252	C	T	-0.120	0.027	9.40E-06	11934
genus.Coprococcus3.id.11303	rs9655998	G	T	0.051	0.011	9.40E-06	15472
genus..Ruminococcusgnavusgroup.id.14376	rs16886738	G	A	-0.089	0.020	9.39E-06	6401
genus.Coprococcus2.id.11302	rs67222397	G	C	0.069	0.016	9.39E-06	11485
genus.Anaerofilum.id.2053	rs34763136	G	A	0.089	0.020	9.39E-06	5051
genus..Eubacteriumxylanophilumgroup.id.14375	rs75586835	G	A	-0.114	0.026	9.39E-06	12550
genus.Faecalibacterium.id.2057	rs71629856	G	A	0.061	0.015	9.39E-06	17525
genus.Flavonifractor.id.2059	rs7535408	A	G	-0.067	0.015	9.39E-06	10805
genus.Romboutsia.id.11347	rs9389266	G	T	0.072	0.016	9.38E-06	14187
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs11052069	C	T	0.048	0.011	9.38E-06	17380
genus.Ruminiclostridium9.id.11357	rs9522731	A	C	0.068	0.016	9.38E-06	16720
genus.Romboutsia.id.11347	rs79074610	A	C	-0.086	0.020	9.38E-06	14185

genus.Collinsella.id.815	rs11597285	T	G	-0.054	0.012	9.38E-06	14334
genus.Dialister.id.2183	rs57053627	A	G	0.065	0.015	9.37E-06	11988
genus.Desulfovibrio.id.3173	rs7580530	T	C	0.099	0.022	9.37E-06	8775
genus.Subdoligranulum.id.2070	rs2605244	C	T	-0.051	0.012	9.37E-06	17590
genus.Flavonifractor.id.2059	rs12038887	G	C	0.094	0.021	9.37E-06	10583
genus.Oxalobacter.id.2978	rs17543178	A	G	-0.132	0.030	9.37E-06	4492
genus.Lachnoclostridium.id.11308	rs7268057	T	C	-0.048	0.011	9.37E-06	17842
genus.LachnospiraceaeNK4A136group.id.11319	rs74167868	C	T	-0.092	0.021	9.37E-06	15909
genus.Ruminococcus1.id.11373	rs11776480	C	T	-0.073	0.016	9.36E-06	16515
genus.Parabacteroides.id.954	rs9580476	T	C	-0.108	0.025	9.36E-06	12081
genus.Bifidobacterium.id.436	rs73958614	A	C	0.093	0.020	9.36E-06	14778
genus.Holdemanella.id.11393	rs113076513	C	G	-0.225	0.051	9.36E-06	3817
genus.Slackia.id.825	rs347677	C	T	0.083	0.019	9.36E-06	6063
genus.Holdemania.id.2157	rs113593397	G	A	-0.129	0.028	9.36E-06	8296
genus.Eisenbergiella.id.11304	rs2133986	C	T	0.088	0.020	9.36E-06	5582
genus.Eubacteriumruminantiumgroup.id.11340	rs559682	G	A	0.081	0.018	9.35E-06	7265
genus.Oscillibacter.id.2063	rs234112	A	G	0.067	0.015	9.35E-06	8928
genus.Eubacteriumhalliigroup.id.11338	rs17074066	C	T	-0.081	0.019	9.35E-06	15804
genus.Paraprevotella.id.962	rs4398141	G	A	-0.078	0.017	9.35E-06	7178
genus.Streptococcus.id.1853	rs9919516	A	G	0.068	0.016	9.35E-06	16386
genus.Anaerostipes.id.1991	rs11197340	C	G	-0.049	0.011	9.34E-06	16925
genus.LachnospiraceaeNK4A136group.id.11319	rs28540839	C	A	0.051	0.011	9.34E-06	16764
genus.Coproccoccus2.id.11302	rs34042862	G	T	-0.065	0.015	9.34E-06	11009
genus.Roseburia.id.2012	rs59070623	T	C	-0.078	0.018	9.34E-06	16945
genus.Sellimonas.id.14369	rs12113766	C	T	-0.119	0.027	9.34E-06	3154
genus.Alistipes.id.968	rs10950094	G	C	-0.049	0.011	9.34E-06	17571
genus.Clostridiumsensustricto1.id.1873	rs484861	G	A	-0.073	0.017	9.33E-06	14121
genus.Holdemania.id.2157	rs35245389	A	T	-0.130	0.029	9.33E-06	8432
genus.LachnospiraceaeFCS020group.id.11314	rs9848936	T	G	0.054	0.012	9.33E-06	13772
genus.Prevotella9.id.11183	rs16966465	C	G	0.074	0.017	9.33E-06	10261
genus.unknowngenus.id.1000000073	rs6755871	G	C	-0.061	0.014	9.33E-06	10500

genus.Howardella.id.2000	rs17529262	C	G	-0.134	0.030	9.33E-06	3588
genus.Eubacteriumhalliigroup.id.11338	rs281379	G	A	-0.050	0.011	9.33E-06	16130
genus.Victivallis.id.2256	rs1322595	A	G	-0.110	0.025	9.33E-06	3264
genus.Intestinimonas.id.2062	rs72895940	A	G	-0.140	0.032	9.33E-06	9250
genus.Bifidobacterium.id.436	rs55912948	A	G	0.054	0.012	9.32E-06	14778
genus.Eubacteriumnodatumgroup.id.11297	rs10905594	T	C	0.153	0.034	9.32E-06	3295
genus.Turicibacter.id.2162	rs10845475	T	C	-0.093	0.021	9.32E-06	8949
genus.Lachnoclostridium.id.11308	rs825045	A	T	-0.108	0.025	9.32E-06	13476
genus.Oscillospira.id.2064	rs12925026	C	T	0.136	0.031	9.31E-06	8200
genus.unknowngenus.id.1000000073	rs740990	C	T	0.071	0.016	9.31E-06	10433
genus.Anaerostipes.id.1991	rs11197369	A	G	-0.050	0.011	9.31E-06	16914
genus.LachnospiraceaeFCS020group.id.11314	rs9290283	G	A	0.054	0.012	9.31E-06	13772
genus.Barnesiella.id.944	rs28575468	A	T	-0.081	0.019	9.30E-06	14207
genus.Ruminiclostridium6.id.11356	rs67479537	C	T	0.119	0.026	9.30E-06	11613
genus.Turicibacter.id.2162	rs2287155	G	A	-0.099	0.023	9.30E-06	8928
genus.Alistipes.id.968	rs11958296	G	A	-0.098	0.022	9.30E-06	16214
genus.CandidatusSoleaferrea.id.11350	rs7400877	C	T	-0.095	0.021	9.29E-06	6145
genus.ErysipelotrichaceaeUCG003.id.11384	rs59253454	A	G	0.118	0.027	9.29E-06	12542
genus.Alistipes.id.968	rs4717397	G	A	-0.049	0.011	9.29E-06	17570
genus.Peptococcus.id.2037	rs28384149	T	C	0.105	0.024	9.29E-06	5483
genus.Eubacteriumxylanophilumgroup.id.14375	rs13234419	C	T	0.064	0.014	9.29E-06	13309
genus.RuminococcaceaeUCG002.id.11360	rs59413630	T	C	-0.076	0.017	9.29E-06	16371
genus.Peptococcus.id.2037	rs12069354	T	C	0.168	0.038	9.28E-06	5352
genus.Methanobrevibacter.id.123	rs4779844	C	G	0.110	0.025	9.28E-06	3585
genus.Ruminococcus1.id.11373	rs3000856	A	T	-0.071	0.016	9.28E-06	16126
genus.Parasutterella.id.2892	rs10793496	A	G	-0.063	0.014	9.27E-06	11383
genus.Coproccoccus3.id.11303	rs10810043	G	A	0.052	0.012	9.27E-06	15833
genus.Akkermansia.id.4037	rs10005131	T	G	0.061	0.014	9.27E-06	11864
genus.RikenellaceaeRC9gutgroup.id.11191	rs7931333	T	C	0.111	0.025	9.27E-06	3333
genus.Akkermansia.id.4037	rs1988252	G	A	0.063	0.014	9.27E-06	11863
genus.Victivallis.id.2256	rs4570771	A	G	-0.117	0.026	9.27E-06	3267

genus.Alloprevotella.id.961	rs17380632	T	A	0.126	0.028	9.27E-06	3009
genus.Eubacteriumbrachygroup.id.11296	rs12151423	G	A	0.101	0.023	9.27E-06	3854
genus.Paraprevotella.id.962	rs1928142	G	A	-0.076	0.017	9.27E-06	7177
genus.Anaerostipes.id.1991	rs2420091	A	G	-0.049	0.011	9.27E-06	16926
genus.Intestinibacter.id.11345	rs12379709	T	A	-0.098	0.023	9.27E-06	12303
genus.Sellimonas.id.14369	rs2570252	G	T	0.112	0.025	9.27E-06	3154
genus.RuminococcaceaeUCG004.id.11362	rs79746497	A	G	-0.079	0.018	9.26E-06	9502
genus.Eubacteriumrectalegroup.id.14374	rs3862040	C	T	0.048	0.011	9.26E-06	17351
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs11720857	T	C	0.063	0.014	9.26E-06	16960
genus.Roseburia.id.2012	rs28040	C	G	0.057	0.013	9.26E-06	17854
genus.LachnospiraceaeUCG008.id.11328	rs11025182	A	G	-0.086	0.019	9.26E-06	7017
genus.Intestinibacter.id.11345	rs68093214	T	C	0.066	0.015	9.26E-06	11886
genus.Oscillibacter.id.2063	rs12880119	T	G	-0.067	0.015	9.26E-06	8930
genus.Anaerostipes.id.1991	rs11197331	A	G	-0.049	0.011	9.25E-06	16925
genus.Akkermansia.id.4037	rs10516447	A	G	0.103	0.023	9.25E-06	11215
genus.Holdemanella.id.11393	rs17527365	G	A	-0.225	0.051	9.25E-06	3817
genus.LachnospiraceaeUCG010.id.11330	rs1558001	C	T	-0.056	0.012	9.25E-06	13236
genus.LachnospiraceaeUCG008.id.11328	rs29321	C	T	0.076	0.017	9.24E-06	7017
genus.Oscillospira.id.2064	rs3846286	A	G	0.114	0.026	9.24E-06	9755
genus.Anaerofilum.id.2053	rs2487275	G	A	-0.181	0.041	9.24E-06	4856
genus.Coprobacter.id.949	rs9972482	A	T	0.097	0.022	9.24E-06	6790
genus.Tyzzereella3.id.11335	rs75684832	G	A	-0.123	0.027	9.23E-06	5394
genus.Intestinibacter.id.11345	rs12378286	G	A	-0.098	0.023	9.23E-06	12303
genus.Butyriovibrio.id.1993	rs8079738	T	C	0.119	0.027	9.23E-06	3259
genus.Eubacteriumruminantiumgroup.id.11340	rs209813	A	G	-0.103	0.024	9.23E-06	7264
genus.Alistipes.id.968	rs2150413	C	T	-0.048	0.011	9.23E-06	17571
genus.CandidatusSoleaferrea.id.11350	rs6881988	C	G	-0.082	0.018	9.23E-06	6140
genus.Hungatella.id.11306	rs35936785	T	G	-0.151	0.034	9.23E-06	3946
genus.Adlercreutzia.id.812	rs1534655	T	C	-0.078	0.018	9.23E-06	8243
genus.unknowngenus.id.2071	rs7140558	A	G	-0.062	0.014	9.22E-06	12358
genus.CandidatusSoleaferrea.id.11350	rs75263286	G	C	-0.121	0.028	9.22E-06	6104

genus.Oscillibacter.id.2063	rs10834860	A	G	0.077	0.017	9.22E-06	8928
genus.Anaerostipes.id.1991	rs11197339	G	A	-0.049	0.011	9.22E-06	16925
genus.RuminococcaceaeUCG014.id.11371	rs162747	G	A	-0.057	0.013	9.21E-06	14399
genus.Sellimonas.id.14369	rs13200972	G	A	0.114	0.025	9.21E-06	3153
genus.Ruminiclostridium9.id.11357	rs9811346	T	C	-0.050	0.011	9.21E-06	16722
genus.Sutterella.id.2896	rs27727	T	C	-0.059	0.013	9.21E-06	13254
genus.Enterorhabdus.id.820	rs6904374	C	T	-0.074	0.017	9.19E-06	7524
genus.Holdemania.id.2157	rs74518299	T	C	-0.130	0.029	9.19E-06	8432
genus.Parasutterella.id.2892	rs7077599	T	C	-0.063	0.014	9.19E-06	11385
genus.Oxalobacter.id.2978	rs3862635	T	C	-0.172	0.039	9.19E-06	4469
genus.Ruminococcustorquesgroup.id.14377	rs62451661	A	C	0.072	0.017	9.19E-06	17007
genus.LachnospiraceaeNK4A136group.id.11319	rs943880	G	C	-0.052	0.012	9.18E-06	17236
genus.Dialister.id.2183	rs2257090	C	T	0.066	0.015	9.18E-06	11989
genus.RuminococcaceaeUCG004.id.11362	rs11961899	A	G	-0.071	0.016	9.18E-06	9501
genus.Faecalibacterium.id.2057	rs61875484	G	C	0.082	0.018	9.18E-06	16718
genus.Phascolarctobacterium.id.2168	rs493998	A	G	0.061	0.014	9.18E-06	11113
genus.Butyricococcus.id.2055	rs4129082	G	C	0.055	0.012	9.18E-06	17136
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs4717831	T	A	0.079	0.017	9.18E-06	16854
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs7650657	A	G	0.050	0.011	9.18E-06	17379
genus.Anaerostipes.id.1991	rs11197346	C	A	-0.050	0.011	9.18E-06	16925
genus.RikenellaceaeRC9gutgroup.id.11191	rs2897922	A	G	0.111	0.025	9.18E-06	3333
genus.LachnospiraceaeUCG004.id.11324	rs35816772	G	C	-0.056	0.012	9.17E-06	14459
genus.Odoribacter.id.952	rs2899604	T	A	0.052	0.012	9.17E-06	14684
genus.LachnospiraceaeUCG010.id.11330	rs2153460	T	A	-0.068	0.016	9.17E-06	13236
genus.Akkermansia.id.4037	rs941682	A	G	-0.063	0.014	9.17E-06	11808
genus.Ruminiclostridium6.id.11356	rs77898140	T	C	0.106	0.024	9.17E-06	12802
genus.Lachnoclostridium.id.11308	rs62028349	C	G	0.047	0.011	9.17E-06	17922
genus.Hungatella.id.11306	rs66914762	C	T	-0.152	0.033	9.17E-06	3949
genus.Roseburia.id.2012	rs2935500	A	T	0.048	0.011	9.17E-06	17854
genus.Gordonibacter.id.821	rs117347059	C	G	-0.128	0.029	9.17E-06	3684
genus.Alistipes.id.968	rs13246203	A	G	-0.049	0.011	9.16E-06	17569

genus.CandidatusSoleaferrea.id.11350	rs12205053	T	C	-0.120	0.028	9.16E-06	6145
genus.FamilyXIIIAD3011group.id.11293	rs61914204	A	G	-0.086	0.019	9.16E-06	13564
genus.LachnospiraceaeFCS020group.id.11314	rs2024534	T	C	0.054	0.012	9.16E-06	13772
genus.Sutterella.id.2896	rs9377065	G	C	0.057	0.013	9.16E-06	13243
genus.Ruminiclostridium6.id.11356	rs116969552	G	A	-0.167	0.038	9.16E-06	6824
genus.Eubacteriumbrachygroup.id.11296	rs1409398	A	T	0.102	0.023	9.16E-06	4000
genus.Oscillibacter.id.2063	rs1150668	T	G	-0.067	0.015	9.16E-06	8930
genus.Eubacteriumhalliigroup.id.11338	rs630939	T	C	-0.051	0.011	9.16E-06	16238
genus.RuminococcaceaeUCG003.id.11361	rs3013102	G	A	-0.054	0.012	9.16E-06	14409
genus.Paraprevotella.id.962	rs11654749	G	T	-0.079	0.017	9.15E-06	7176
genus.Intestinimonas.id.2062	rs4722076	A	G	0.058	0.013	9.15E-06	11766
genus.Dorea.id.1997	rs12537781	C	T	-0.056	0.013	9.15E-06	17608
genus.Romboutsia.id.11347	rs12048003	C	A	-0.086	0.020	9.15E-06	14185
genus.Collinsella.id.815	rs59414781	G	C	0.067	0.015	9.15E-06	14334
genus.Intestinibacter.id.11345	rs4935946	G	A	-0.132	0.030	9.15E-06	10333
genus.FamilyXIIIAD3011group.id.11293	rs12821186	G	T	-0.086	0.019	9.14E-06	13564
genus.FamilyXIIIAD3011group.id.11293	rs6670314	T	C	-0.055	0.012	9.14E-06	14197
genus.Eubacteriumeligensgroup.id.14372	rs56080211	T	C	0.123	0.028	9.14E-06	10699
genus.Desulfovibrio.id.3173	rs2032031	G	A	-0.065	0.015	9.14E-06	9241
genus.Fusicatenibacter.id.11305	rs12066113	G	A	-0.051	0.012	9.14E-06	17379
genus.Copro bacter.id.949	rs8041597	T	G	0.097	0.022	9.14E-06	6785
genus.ChristensenellaceaeR.7group.id.11283	rs16870208	C	T	0.110	0.025	9.14E-06	12630
genus.Eubacteriumeligensgroup.id.14372	rs77349995	C	T	0.096	0.022	9.14E-06	13249
genus.RuminococcaceaeUCG014.id.11371	rs332730	G	A	-0.057	0.013	9.14E-06	14403
genus.Eggerthella.id.819	rs2270169	G	A	-0.089	0.020	9.14E-06	5147
genus.LachnospiraceaeNC2004group.id.11316	rs117467633	C	T	-0.170	0.038	9.13E-06	5077
genus.CandidatusSoleaferrea.id.11350	rs12141016	T	C	0.102	0.023	9.13E-06	6145
genus.Turicibacter.id.2162	rs111630045	T	C	0.096	0.022	9.13E-06	8927
genus.Marvinbryantia.id.2005	rs72948271	A	G	-0.119	0.027	9.13E-06	11561
genus.Copro bacter.id.949	rs76001613	G	C	0.216	0.049	9.13E-06	3385
genus.Streptococcus.id.1853	rs7916067	A	G	0.095	0.021	9.13E-06	15294

genus.Lactococcus.id.1851	rs3731973	G	A	-0.134	0.031	9.12E-06	4055
genus.Enterorhabdus.id.820	rs6903990	G	T	-0.074	0.017	9.12E-06	7524
genus.Coprococcus1.id.11301	rs7774681	G	T	-0.049	0.011	9.12E-06	16732
genus.Oscillospira.id.2064	rs2211563	A	C	0.082	0.018	9.12E-06	10199
genus.Turicibacter.id.2162	rs12899055	C	T	0.069	0.016	9.12E-06	8949
genus.Eggerthella.id.819	rs740821	G	C	-0.089	0.020	9.12E-06	5147
genus.Dorea.id.1997	rs3005516	G	A	0.050	0.011	9.12E-06	17610
genus..Ruminococcusgnavusgroup.id.14376	rs4388134	T	C	-0.090	0.020	9.12E-06	6399
genus.Ruminiclostridium6.id.11356	rs1871858	G	C	-0.105	0.024	9.12E-06	12818
genus.Desulfovibrio.id.3173	rs11902332	A	G	0.099	0.022	9.11E-06	8776
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12911214	T	A	-0.051	0.012	9.11E-06	17379
genus.Turicibacter.id.2162	rs2269744	A	G	0.096	0.022	9.11E-06	8927
genus.Slackia.id.825	rs13335738	T	C	0.145	0.033	9.11E-06	6063
genus.Veillonella.id.2198	rs9759067	G	A	0.086	0.019	9.11E-06	9290
genus.Ruminiclostridium5.id.11355	rs914325	C	T	0.050	0.011	9.11E-06	17394
genus.Anaerofilum.id.2053	rs10483366	C	T	-0.123	0.028	9.11E-06	5051
genus.Roseburia.id.2012	rs113661349	A	G	-0.130	0.030	9.11E-06	9674
genus.Alistipes.id.968	rs2290844	T	C	0.081	0.019	9.10E-06	17571
genus.ChristensenellaceaeR.7group.id.11283	rs62467084	T	C	0.109	0.025	9.10E-06	12719
genus.ChristensenellaceaeR.7group.id.11283	rs62467085	C	A	0.109	0.025	9.10E-06	12719
genus.Ruminiclostridium6.id.11356	rs848653	C	T	0.058	0.013	9.10E-06	13380
genus.Copro bacter.id.949	rs4932361	A	G	0.098	0.022	9.10E-06	6790
genus.Erysipelatoclostridium.id.11381	rs61806970	T	C	0.143	0.032	9.09E-06	8644
genus.Alistipes.id.968	rs10950089	C	T	-0.049	0.011	9.09E-06	17569
genus.RuminococcaceaeUCG014.id.11371	rs457452	G	A	-0.057	0.013	9.09E-06	14403
genus.Marvinbryantia.id.2005	rs72948273	G	A	-0.120	0.027	9.09E-06	11561
genus.Ruminiclostridium6.id.11356	rs10105231	T	C	0.055	0.012	9.09E-06	13380
genus.Akkermansia.id.4037	rs2865331	G	A	0.062	0.014	9.09E-06	11863
genus.Fusicatenibacter.id.11305	rs62187627	T	G	-0.068	0.016	9.08E-06	16623
genus.Lactococcus.id.1851	rs12712303	C	T	0.107	0.024	9.08E-06	4057
genus.LachnospiraceaeNK4A136group.id.11319	rs10952110	T	G	0.049	0.011	9.08E-06	16764

genus.Lachnospira.id.2004	rs2520511	T	C	0.051	0.012	9.08E-06	16500
genus.Ruminiclostridium6.id.11356	rs78755044	G	A	0.134	0.030	9.08E-06	9872
genus.DefluviitaleaceaeUCG011.id.11287	rs77041875	C	T	0.082	0.018	9.08E-06	8182
genus.LachnospiraceaeUCG008.id.11328	rs29302	C	T	0.076	0.017	9.08E-06	7017
genus.Howardella.id.2000	rs10515986	A	G	0.155	0.034	9.08E-06	3613
genus.RuminococcaceaeUCG002.id.11360	rs7249614	G	A	-0.049	0.011	9.07E-06	16651
genus.Bifidobacterium.id.436	rs4954559	A	G	0.061	0.014	9.07E-06	14666
genus.Bilophila.id.3170	rs1969927	A	G	0.056	0.013	9.07E-06	12777
genus.Eisenbergiella.id.11304	rs955734	G	A	0.100	0.023	9.07E-06	5582
genus.RuminococcaceaeUCG004.id.11362	rs12076769	T	C	0.121	0.027	9.07E-06	9020
genus.Subdoligranulum.id.2070	rs1840628	G	A	-0.051	0.012	9.07E-06	17590
genus.Bilophila.id.3170	rs9899990	G	A	-0.103	0.023	9.07E-06	12088
genus.Anaerostipes.id.1991	rs2532728	A	C	-0.050	0.011	9.07E-06	16445
genus.Intestinimonas.id.2062	rs80092034	G	A	-0.140	0.032	9.07E-06	9250
genus.Tyzzereella3.id.11335	rs75690843	T	G	-0.125	0.027	9.06E-06	5396
genus.LachnospiraceaeNC2004group.id.11316	rs12134680	A	C	0.111	0.025	9.06E-06	6226
genus.Eisenbergiella.id.11304	rs11651545	C	T	0.107	0.024	9.06E-06	5528
genus.Eubacteriumbrachygroup.id.11296	rs1778353	C	T	0.103	0.023	9.06E-06	4001
genus.Sutterella.id.2896	rs1409526	A	G	-0.055	0.012	9.06E-06	13254
genus.Ruminiclostridium9.id.11357	rs17628988	A	G	-0.056	0.013	9.06E-06	16723
genus.Ruminococcusgnavusgroup.id.14376	rs329903	G	A	-0.088	0.020	9.06E-06	6401
genus.LachnospiraceaeNC2004group.id.11316	rs35914870	T	C	0.111	0.025	9.06E-06	6225
genus.Streptococcus.id.1853	rs7957504	A	G	-0.078	0.017	9.06E-06	15740
genus.Gordonibacter.id.821	rs4596722	G	A	0.103	0.023	9.06E-06	3723
genus.Turicibacter.id.2162	rs2269746	C	A	0.132	0.030	9.06E-06	8928
genus.Olsenella.id.822	rs6046513	T	C	0.120	0.027	9.06E-06	3705
genus.LachnospiraceaeNC2004group.id.11316	rs1929743	C	T	0.084	0.019	9.06E-06	6330
genus.Alistipes.id.968	rs10434981	G	A	-0.049	0.011	9.05E-06	17571
genus.Peptococcus.id.2037	rs61995063	G	A	0.105	0.024	9.05E-06	5483
genus.Ruminiclostridium6.id.11356	rs965686	T	C	0.069	0.015	9.05E-06	13381
genus.Ruminococcus2.id.11374	rs6537938	G	A	0.069	0.016	9.05E-06	15339

genus.Methanobrevibacter.id.123	rs75597686	A	G	0.203	0.045	9.05E-06	3390
genus.RuminococcaceaeNK4A214group.id.11358	rs6681678	T	C	-0.100	0.024	9.05E-06	13031
genus.Ruminiclostridium9.id.11357	rs55842512	A	G	-0.055	0.013	9.05E-06	16724
genus.Peptococcus.id.2037	rs428521	A	C	-0.195	0.044	9.05E-06	4556
genus.Coprobacter.id.949	rs12908296	G	A	0.101	0.022	9.04E-06	6793
genus.RuminococcaceaeUCG002.id.11360	rs60613323	T	C	-0.076	0.017	9.04E-06	16375
genus.Turicibacter.id.2162	rs11868588	G	A	0.096	0.022	9.04E-06	8928
genus.Oxalobacter.id.2978	rs62342283	G	C	0.199	0.045	9.04E-06	4014
genus.LachnospiraceaeFCS020group.id.11314	rs9811284	C	A	0.054	0.012	9.03E-06	13772
genus.Bifidobacterium.id.436	rs78274583	C	T	0.073	0.016	9.03E-06	14778
genus.Ruminococcus1.id.11373	rs7584523	A	T	0.050	0.011	9.03E-06	16584
genus.Bilophila.id.3170	rs1261690	C	T	-0.070	0.016	9.03E-06	12856
genus.Eggerthella.id.819	rs2877457	A	G	-0.093	0.021	9.03E-06	5083
genus.Oscillibacter.id.2063	rs6925714	C	T	-0.067	0.015	9.03E-06	8930
genus.FamilyXIIIAD3011group.id.11293	rs11736617	A	G	-0.076	0.017	9.02E-06	13778
genus.Lachnoclostridium.id.11308	rs6035302	G	C	-0.048	0.011	9.02E-06	17842
genus.Bifidobacterium.id.436	rs60253740	G	T	0.073	0.016	9.02E-06	14666
genus.LachnospiraceaeUCG001.id.11321	rs7213933	A	T	-0.082	0.018	9.02E-06	9961
genus.Anaerotruncus.id.2054	rs12431415	G	A	0.054	0.012	9.02E-06	16549
genus.Streptococcus.id.1853	rs3847387	G	A	0.094	0.021	9.02E-06	15292
genus.Ruminococcusgnavusgroup.id.14376	rs16886734	T	C	-0.089	0.020	9.01E-06	6401
genus.ErysipelotrichaceaeUCG003.id.11384	rs73307288	T	C	0.118	0.027	9.01E-06	12542
genus.Ruminiclostridium6.id.11356	rs1452465	C	T	0.060	0.014	9.01E-06	13381
genus.RuminococcaceaeUCG009.id.11366	rs758191	G	T	0.177	0.038	9.01E-06	5829
genus.Enterorhabdus.id.820	rs7753616	G	A	-0.074	0.017	9.01E-06	7524
genus.Odoribacter.id.952	rs491296	C	A	0.052	0.012	9.01E-06	14679
genus.Catenibacterium.id.2153	rs56327358	G	A	0.126	0.029	9.00E-06	3239
genus.Anaerofilum.id.2053	rs10744894	A	G	-0.091	0.021	9.00E-06	5051
genus.Sellimonas.id.14369	rs1476517	G	A	-0.119	0.027	9.00E-06	3154
genus.ChristensenellaceaeR.7group.id.11283	rs17141339	A	G	0.109	0.025	9.00E-06	12719
genus.ChristensenellaceaeR.7group.id.11283	rs62467082	C	T	0.109	0.025	9.00E-06	12719

genus.Bifidobacterium.id.436	rs5746486	C	T	-0.054	0.012	9.00E-06	14778
genus.Sutterella.id.2896	rs6938698	G	T	-0.059	0.013	9.00E-06	13254
genus.RuminococcaceaeUCG014.id.11371	rs466005	A	T	-0.057	0.013	8.99E-06	14403
genus.Lactococcus.id.1851	rs10432674	A	G	-0.134	0.031	8.99E-06	4055
genus.Ruminiclostridium6.id.11356	rs35362464	A	C	0.072	0.017	8.99E-06	13308
genus.Methanobrevibacter.id.123	rs4753222	G	A	0.112	0.025	8.99E-06	3586
genus.Eubacteriumrectalegroup.id.14374	rs2175594	C	T	0.048	0.011	8.99E-06	17351
genus.RuminococcaceaeUCG014.id.11371	rs457444	G	A	-0.057	0.013	8.99E-06	14403
genus.Erysipelatoclostridium.id.11381	rs2114977	G	C	-0.066	0.015	8.99E-06	9725
genus.RuminococcaceaeUCG004.id.11362	rs73089465	C	A	0.090	0.020	8.99E-06	9502
genus.Anaerotruncus.id.2054	rs12584670	T	C	0.081	0.019	8.98E-06	16566
genus.Eubacteriumbrachygroup.id.11296	rs2797645	A	C	-0.112	0.025	8.98E-06	4000
genus.LachnospiraceaeFCS020group.id.11314	rs4452603	G	T	0.060	0.014	8.98E-06	13487
genus.Copro bacter.id.949	rs62025078	T	G	0.099	0.022	8.98E-06	6759
genus.Olsenella.id.822	rs1983198	T	A	0.119	0.027	8.98E-06	3705
genus.Marvinbryantia.id.2005	rs3111246	C	G	0.066	0.015	8.98E-06	11709
genus.Prevo tella9.id.11183	rs2495052	G	A	0.084	0.019	8.97E-06	9790
genus.Escherichia.Shigella.id.3504	rs9914886	T	G	-0.134	0.030	8.97E-06	9990
genus.Eisenbergiella.id.11304	rs16911971	G	A	0.126	0.029	8.97E-06	5583
genus.Paraprevotella.id.962	rs11655006	A	G	-0.078	0.017	8.97E-06	7179
genus.Alistipes.id.968	rs7995332	C	A	0.071	0.017	8.97E-06	17571
genus.Butyri vibrio.id.1993	rs36073314	A	G	0.176	0.039	8.96E-06	3482
genus.Lactobacillus.id.1837	rs12693845	T	C	-0.081	0.018	8.96E-06	6958
genus.Erysipelatoclostridium.id.11381	rs4302942	A	G	-0.064	0.014	8.96E-06	9783
genus.RuminococcaceaeUCG003.id.11361	rs2523138	A	G	-0.054	0.012	8.96E-06	14409
genus.Olsenella.id.822	rs6046515	T	C	0.120	0.027	8.96E-06	3705
genus.Fusicatenibacter.id.11305	rs206581	G	A	-0.057	0.013	8.96E-06	17384
genus.RuminococcaceaeUCG003.id.11361	rs3013098	A	G	-0.054	0.012	8.96E-06	14409
genus.Bacteroides.id.918	rs78280928	G	A	0.057	0.013	8.95E-06	18184
genus.Coprococcus1.id.11301	rs1519491	C	T	0.050	0.011	8.95E-06	16733
genus.unknowngenus.id.2001	rs455041	A	T	0.086	0.020	8.95E-06	9531

genus.Coprococcus1.id.11301	rs7795435	C	G	-0.053	0.012	8.95E-06	16732
genus.Terrisporobacter.id.11348	rs2569953	C	A	-0.078	0.017	8.95E-06	6637
genus.Sellimonas.id.14369	rs12108049	A	G	-0.160	0.036	8.95E-06	3140
genus.RuminococcaceaeUCG003.id.11361	rs3124989	T	C	-0.054	0.012	8.95E-06	14409
genus.Adlercreutzia.id.812	rs4557646	C	T	0.137	0.031	8.95E-06	8107
genus.Eubacteriumruminantiumgroup.id.11340	rs12117793	T	A	0.072	0.016	8.95E-06	7738
genus.Collinsella.id.815	rs11600657	G	T	-0.053	0.012	8.95E-06	14334
genus.Desulfovibrio.id.3173	rs6758756	C	T	0.101	0.023	8.94E-06	8776
genus.Eggerthella.id.819	rs67490567	C	T	0.108	0.025	8.94E-06	5083
genus.Ruminiclostridium9.id.11357	rs2377294	G	T	-0.088	0.020	8.94E-06	16716
genus.Lactococcus.id.1851	rs12621783	C	T	-0.184	0.043	8.94E-06	3787
genus.Intestinimonas.id.2062	rs6784625	C	T	-0.059	0.013	8.94E-06	11766
genus.Prevootella9.id.11183	rs7237249	T	C	-0.082	0.018	8.93E-06	10271
genus.Roseburia.id.2012	rs147990086	G	A	-0.058	0.013	8.93E-06	17840
genus.Ruminococcustorquesgroup.id.14377	rs1972694	A	T	-0.061	0.014	8.93E-06	17353
genus.unknowngenus.id.2001	rs428200	G	A	0.086	0.019	8.93E-06	9531
genus.FamilyXIIIAD3011group.id.11293	rs9276029	G	A	-0.081	0.019	8.93E-06	13566
genus.Clostridiuminnocuumgroup.id.14397	rs10506058	G	A	0.100	0.022	8.92E-06	4163
genus.Eubacteriumruminantiumgroup.id.11340	rs482376	C	T	0.081	0.018	8.92E-06	7265
genus.RikenellaceaeRC9gutgroup.id.11191	rs2408405	G	A	0.111	0.025	8.92E-06	3333
genus.Barnesiella.id.944	rs11155559	C	T	0.096	0.021	8.92E-06	13383
genus.Ruminococcustorquesgroup.id.14377	rs34273234	C	T	0.087	0.020	8.92E-06	17011
genus.Dorea.id.1997	rs1370438	C	A	0.050	0.011	8.91E-06	17610
genus.Terrisporobacter.id.11348	rs773921	C	A	-0.083	0.019	8.91E-06	6637
genus.Tyzzereella3.id.11335	rs73291115	A	G	-0.213	0.048	8.91E-06	3857
genus.Eubacteriumnodatumgroup.id.11297	rs10263623	T	C	0.193	0.044	8.91E-06	3080
genus.Senegalimassilia.id.11160	rs1990708	C	A	-0.110	0.025	8.91E-06	6923
genus.Peptococcus.id.2037	rs62003651	A	G	0.105	0.023	8.90E-06	5482
genus.RuminococcaceaeUCG005.id.11363	rs6674919	G	A	0.057	0.013	8.90E-06	16103
genus.ErysipelotrichaceaeUCG003.id.11384	rs9963666	T	G	-0.093	0.021	8.90E-06	14432
genus.RuminococcaceaeUCG005.id.11363	rs4900222	A	T	0.063	0.014	8.90E-06	16098

genus.Enterorhabdus.id.820	rs2051957	T	C	0.084	0.019	8.90E-06	7524
genus.Copro bacter.id.949	rs12231438	G	T	-0.102	0.023	8.90E-06	6364
genus.RuminococcaceaeUCG014.id.11371	rs332731	A	G	-0.057	0.013	8.90E-06	14403
genus.Peptococcus.id.2037	rs441637	T	C	-0.098	0.022	8.90E-06	5656
genus.RikenellaceaeRC9gutgroup.id.11191	rs13223944	C	T	-0.117	0.027	8.89E-06	3220
genus.RuminococcaceaeUCG014.id.11371	rs420342	T	G	-0.057	0.013	8.89E-06	14403
genus.Paraprevotella.id.962	rs2923900	C	T	0.103	0.023	8.89E-06	7173
genus.LachnospiraceaeFCS020group.id.11314	rs7684654	G	C	0.054	0.012	8.89E-06	13768
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs1020520	G	T	-0.059	0.013	8.89E-06	17371
genus..Ruminococcusgnavusgroup.id.14376	rs10043038	G	A	-0.090	0.020	8.89E-06	6397
genus.Coproccoccus2.id.11302	rs7266126	C	T	0.107	0.024	8.89E-06	10932
genus.Phascolarctobacterium.id.2168	rs11929846	C	T	-0.070	0.016	8.88E-06	11114
genus.LachnospiraceaeFCS020group.id.11314	rs7684645	G	A	0.054	0.012	8.88E-06	13767
genus..Eubacteriumhalliigroup.id.11338	rs76557701	G	A	0.152	0.035	8.88E-06	7712
genus.Erysipelatoclostridium.id.11381	rs11744565	T	C	-0.064	0.014	8.88E-06	9725
genus.Veillonella.id.2198	rs9615062	T	G	-0.067	0.015	8.88E-06	9278
genus.Alistipes.id.968	rs67853823	C	T	-0.048	0.011	8.88E-06	17570
genus.LachnospiraceaeFCS020group.id.11314	rs9809054	C	G	0.057	0.013	8.88E-06	13772
genus.Streptococcus.id.1853	rs4260895	A	C	-0.056	0.013	8.87E-06	16387
genus.Ruminococcus1.id.11373	rs11686947	G	A	0.050	0.011	8.87E-06	16586
genus.Allisonella.id.2174	rs7898615	G	T	0.168	0.037	8.87E-06	3212
genus..Eubacteriumruminantiumgroup.id.11340	rs10521010	T	C	-0.163	0.039	8.87E-06	4753
genus.RuminococcaceaeUCG014.id.11371	rs455616	G	C	-0.057	0.013	8.87E-06	14403
genus.Parabacteroides.id.954	rs11965579	C	G	0.163	0.038	8.87E-06	3890
genus.Adlercreutzia.id.812	rs1468569	G	A	0.072	0.016	8.86E-06	8243
genus..Eubacteriumxylanophilumgroup.id.14375	rs10987693	C	T	-0.103	0.023	8.86E-06	12930
genus.Butyrvibrio.id.1993	rs16934069	C	T	-0.134	0.030	8.86E-06	3482
genus.Tyzzereella3.id.11335	rs10898797	T	C	0.122	0.027	8.85E-06	5387
genus.Coproccoccus2.id.11302	rs6819699	C	T	-0.062	0.014	8.85E-06	11009
genus.ErysipelotrichaceaeUCG003.id.11384	rs7009613	G	C	0.119	0.027	8.85E-06	12542
genus.Eisenbergiella.id.11304	rs12257723	C	A	-0.095	0.021	8.85E-06	5582

genus.Subdoligranulum.id.2070	rs28590759	C	A	-0.051	0.012	8.85E-06	17591
genus.Odoribacter.id.952	rs16918425	T	A	0.100	0.022	8.85E-06	13689
genus.Clostridiumsensustricto1.id.1873	rs11586026	T	A	0.111	0.025	8.85E-06	13095
genus.Butyricimonas.id.945	rs1485997	A	G	0.062	0.014	8.85E-06	10737
genus.RuminococcaceaeUCG003.id.11361	rs11778780	G	C	-0.059	0.013	8.85E-06	14412
genus.LachnospiraceaeUCG008.id.11328	rs13089098	G	A	-0.110	0.025	8.85E-06	6577
genus.Barnesiella.id.944	rs28483632	T	C	-0.081	0.019	8.84E-06	14207
genus.Alloprevotella.id.961	rs34619204	A	G	-0.156	0.034	8.84E-06	3003
genus.Blautia.id.1992	rs117001700	C	T	0.196	0.044	8.84E-06	4965
genus.Sellimonas.id.14369	rs73077365	T	C	-0.161	0.036	8.84E-06	3140
genus.Parabacteroides.id.954	rs72893646	T	A	-0.072	0.016	8.83E-06	16508
genus.ChristensenellaceaeR.7group.id.11283	rs10425605	T	C	0.049	0.011	8.83E-06	16324
genus.Akkermansia.id.4037	rs28858161	T	C	0.063	0.014	8.83E-06	11863
genus.Ruminococcus1.id.11373	rs4849717	A	T	0.133	0.030	8.83E-06	10484
genus.Olsenella.id.822	rs2152319	A	C	-0.105	0.023	8.82E-06	3739
genus.Ruminiclostridium5.id.11355	rs73002572	C	G	0.182	0.041	8.82E-06	3761
genus.Ruminiclostridium5.id.11355	rs1556409	G	C	0.050	0.011	8.82E-06	17396
genus.Blautia.id.1992	rs16892041	C	T	-0.062	0.014	8.82E-06	18276
genus.ErysipelotrichaceaeUCG003.id.11384	rs11082735	T	C	-0.094	0.021	8.82E-06	14432
genus.RuminococcaceaeUCG005.id.11363	rs7586445	A	G	0.078	0.018	8.81E-06	15099
genus.CandidatusSoleaferrea.id.11350	rs12205061	T	C	-0.120	0.028	8.81E-06	6145
genus.Butyricimonas.id.945	rs2591801	A	G	0.063	0.014	8.81E-06	10737
genus.Faecalibacterium.id.2057	rs12753492	C	A	0.064	0.015	8.80E-06	17525
genus.Dorea.id.1997	rs345219	G	T	-0.050	0.011	8.80E-06	17215
genus.LachnospiraceaeUCG004.id.11324	rs868697	C	A	0.100	0.023	8.80E-06	14014
genus.Eubacteriumventriosumgroup.id.11341	rs8020950	G	C	-0.053	0.012	8.80E-06	15289
genus.Peptococcus.id.2037	rs2346471	A	G	0.105	0.024	8.80E-06	5483
genus.Lachnoclostridium.id.11308	rs7005978	G	A	-0.050	0.011	8.79E-06	17920
genus.Erysipelatoclostridium.id.11381	rs2901723	A	C	0.064	0.014	8.79E-06	9662
genus.Sellimonas.id.14369	rs10229799	C	T	-0.119	0.027	8.79E-06	3154
genus.unknowngenus.id.959	rs66473610	G	T	0.181	0.040	8.79E-06	4059

genus..Eubacteriumxylanophilumgroup.id.14375	rs76813986	T	C	-0.090	0.020	8.79E-06	13256
genus.Parasutterella.id.2892	rs7170170	T	C	0.059	0.013	8.79E-06	11383
genus.Desulfovibrio.id.3173	rs35710712	T	C	0.099	0.022	8.79E-06	8776
genus.Butyrivibrio.id.1993	rs6429094	A	G	0.171	0.038	8.79E-06	3482
genus.RuminococcaceaeUCG009.id.11366	rs6952633	A	G	0.073	0.017	8.79E-06	7511
genus.Ruminococcus2.id.11374	rs61791567	G	A	-0.052	0.012	8.78E-06	14924
genus.Prevotella9.id.11183	rs72815774	C	T	-0.176	0.039	8.78E-06	5728
genus.Ruminiclostridium9.id.11357	rs1435643	C	T	-0.051	0.011	8.78E-06	16725
genus.LachnospiraceaeFCS020group.id.11314	rs13108212	T	C	0.055	0.012	8.78E-06	13542
genus.Peptococcus.id.2037	rs3759673	A	T	0.105	0.024	8.78E-06	5483
genus.Ruminiclostridium9.id.11357	rs73154329	G	A	-0.056	0.013	8.78E-06	16723
genus.Alistipes.id.968	rs2875322	C	T	-0.058	0.013	8.78E-06	17459
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs73109677	G	A	-0.077	0.017	8.77E-06	17378
genus.Ruminococcus2.id.11374	rs77214829	T	C	0.192	0.044	8.77E-06	3026
genus.Butyrivibrio.id.1993	rs9907578	A	C	0.115	0.026	8.77E-06	3471
genus.Tyzzereella3.id.11335	rs113019116	A	G	-0.214	0.048	8.77E-06	3857
genus..Ruminococcustorquesgroup.id.14377	rs571689	C	T	-0.047	0.011	8.77E-06	17798
genus.FamilyXIIIAD3011group.id.11293	rs11835648	T	C	-0.077	0.017	8.76E-06	13635
genus.Parasutterella.id.2892	rs13129739	C	T	-0.064	0.014	8.76E-06	11383
genus.unknowngenus.id.1000001215	rs11806158	C	A	-0.082	0.019	8.76E-06	5878
genus.Bifidobacterium.id.436	rs2164918	T	G	0.090	0.020	8.76E-06	14778
genus.CandidatusSoleaferrea.id.11350	rs11755471	T	C	-0.121	0.028	8.76E-06	6145
genus.Anaerotruncus.id.2054	rs1920392	C	T	-0.063	0.014	8.76E-06	16566
genus.LachnospiraceaeNK4A136group.id.11319	rs301769	T	C	0.048	0.011	8.76E-06	17234
genus.Escherichia.Shigella.id.3504	rs2803250	G	C	-0.101	0.022	8.76E-06	11296
genus.Paraprevotella.id.962	rs2367261	G	A	-0.079	0.017	8.76E-06	7178
genus.Bilophila.id.3170	rs1241179	G	A	-0.071	0.016	8.75E-06	12856
genus.Bifidobacterium.id.436	rs3769018	T	C	0.094	0.020	8.75E-06	14778
genus.Akkermansia.id.4037	rs28811282	G	A	0.063	0.014	8.75E-06	11863
genus.Lachnoclostridium.id.11308	rs13263105	G	C	-0.050	0.011	8.75E-06	17922
genus.Anaerofilum.id.2053	rs1098567	G	A	-0.180	0.041	8.74E-06	4856

genus.Anaerofilum.id.2053	rs1098566	G	A	-0.180	0.041	8.74E-06	4856
genus.Streptococcus.id.1853	rs78621406	A	G	-0.083	0.019	8.74E-06	15740
genus.RuminococcaceaeUCG014.id.11371	rs11902666	G	A	0.055	0.012	8.74E-06	14403
genus.Ruminococcus1.id.11373	rs3819978	T	C	-0.115	0.026	8.74E-06	12769
genus.Prevotella9.id.11183	rs2768367	C	T	0.105	0.024	8.74E-06	9270
genus.ChristensenellaceaeR.7group.id.11283	rs62190261	C	A	0.096	0.021	8.74E-06	15274
genus.RuminococcaceaeUCG014.id.11371	rs79640386	A	T	-0.111	0.025	8.74E-06	13692
genus.Prevotella9.id.11183	rs10029966	T	G	0.078	0.018	8.74E-06	9790
genus..Ruminococcustorquesgroup.id.14377	rs887350	G	A	0.047	0.011	8.74E-06	17798
genus.ChristensenellaceaeR.7group.id.11283	rs62467090	A	G	0.109	0.025	8.74E-06	12719
genus.LachnospiraceaeFCS020group.id.11314	rs986977	T	A	0.054	0.012	8.73E-06	13772
genus.LachnospiraceaeFCS020group.id.11314	rs6771920	T	A	0.054	0.012	8.73E-06	13772
genus.Victivallis.id.2256	rs1882775	G	A	-0.138	0.031	8.73E-06	3258
genus.Prevotella7.id.11182	rs12195431	C	T	0.197	0.044	8.73E-06	3489
genus.Odoribacter.id.952	rs2287756	C	G	0.054	0.012	8.73E-06	14218
genus.RuminococcaceaeUCG014.id.11371	rs425758	T	C	-0.057	0.013	8.73E-06	14403
genus.LachnospiraceaeUCG010.id.11330	rs72894975	C	G	0.218	0.049	8.73E-06	4316
genus.RuminococcaceaeUCG013.id.11370	rs9565219	A	T	-0.052	0.012	8.73E-06	16772
genus..Eubacteriumfissicatenagroup.id.14373	rs2190161	C	T	-0.101	0.023	8.72E-06	3828
genus.Veillonella.id.2198	rs2831939	T	C	-0.073	0.016	8.72E-06	9290
genus.Ruminiclostridium9.id.11357	rs13086348	C	A	-0.050	0.011	8.72E-06	16725
genus.FamilyXIIIAD3011group.id.11293	rs12829962	C	T	-0.092	0.021	8.72E-06	13563
genus.Butyrvibrio.id.1993	rs12087848	C	T	0.176	0.039	8.72E-06	3482
genus.Ruminiclostridium9.id.11357	rs9809789	T	C	-0.072	0.016	8.72E-06	16025
genus.LachnospiraceaeND3007group.id.11317	rs72776675	C	T	-0.065	0.015	8.72E-06	15302
genus.Oxalobacter.id.2978	rs73027389	A	C	0.147	0.032	8.71E-06	4656
genus.Oscillospira.id.2064	rs11541674	C	A	-0.078	0.017	8.71E-06	9683
genus.LachnospiraceaeUCG004.id.11324	rs2444827	G	A	-0.053	0.012	8.71E-06	14466
genus.Peptococcus.id.2037	rs450933	G	A	0.105	0.024	8.71E-06	5483
genus.FamilyXIIIAD3011group.id.11293	rs9837139	G	A	0.108	0.024	8.71E-06	13527
genus.Anaerotruncus.id.2054	rs7637290	C	A	-0.066	0.015	8.71E-06	16117

genus.RuminococcaceaeUCG014.id.11371	rs74060145	G	C	-0.116	0.025	8.71E-06	13011
genus.Eubacteriumxylanophilumgroup.id.14375	rs699512	A	G	0.065	0.015	8.70E-06	13309
genus.Bifidobacterium.id.436	rs7560412	C	T	0.096	0.021	8.70E-06	14773
genus.FamilyXIIIAD3011group.id.11293	rs12831190	G	T	-0.092	0.021	8.70E-06	13563
genus.Sellimonas.id.14369	rs2554332	G	C	0.112	0.025	8.70E-06	3154
genus.LachnospiraceaeNK4A136group.id.11319	rs74953423	A	T	0.059	0.013	8.70E-06	17233
genus.Eubacteriumfissicatenagroup.id.14373	rs1768152	C	T	0.139	0.032	8.70E-06	3590
genus.Lactococcus.id.1851	rs3972333	C	T	0.111	0.025	8.70E-06	4057
genus.FamilyXIIIAD3011group.id.11293	rs34559641	A	G	-0.087	0.020	8.70E-06	13635
genus.Oxalobacter.id.2978	rs13108339	T	A	0.199	0.045	8.70E-06	4014
genus.RuminococcaceaeNK4A214group.id.11358	rs13087692	G	T	0.057	0.013	8.69E-06	15288
genus.Holdemanella.id.11393	rs62113418	G	A	-0.103	0.023	8.69E-06	7309
genus.RuminococcaceaeUCG014.id.11371	rs332064	A	G	-0.057	0.013	8.69E-06	14403
genus.Oscillospira.id.2064	rs35749994	C	A	0.082	0.018	8.69E-06	10199
genus.Peptococcus.id.2037	rs9458385	C	A	0.094	0.021	8.69E-06	5657
genus.Copro bacter.id.949	rs7163000	C	T	0.098	0.022	8.68E-06	6790
genus.Methanobrevibacter.id.123	rs3912664	G	T	0.112	0.025	8.68E-06	3586
genus.RuminococcaceaeUCG009.id.11366	rs960892	A	G	0.078	0.017	8.68E-06	7509
genus.Allisonella.id.2174	rs7848439	G	A	0.138	0.031	8.68E-06	3212
genus.Sutterella.id.2896	rs4716289	G	A	-0.059	0.013	8.67E-06	13254
genus.Senegalimassilia.id.11160	rs4606909	G	A	0.076	0.017	8.67E-06	6923
genus.Ruminococcustorquesgroup.id.14377	rs2323450	G	T	0.047	0.011	8.67E-06	17798
genus.Ruminococcustorquesgroup.id.14377	rs2058238	T	C	0.048	0.011	8.67E-06	17797
genus.Bilophila.id.3170	rs3862170	A	G	0.074	0.017	8.67E-06	12777
genus.LachnospiraceaeFCS020group.id.11314	rs2061129	A	G	-0.101	0.024	8.67E-06	13238
genus.Ruminiclostridium6.id.11356	rs848651	C	T	0.058	0.013	8.67E-06	13380
genus.unknowngenus.id.1868	rs9817428	C	A	-0.070	0.016	8.67E-06	10301
genus.Allisonella.id.2174	rs12550862	A	C	0.139	0.031	8.67E-06	3212
genus.Sutterella.id.2896	rs7638039	C	T	0.065	0.014	8.66E-06	13236
genus.Anaerofilum.id.2053	rs13417431	A	G	0.110	0.025	8.66E-06	5051
genus.unknowngenus.id.1000005479	rs28545668	G	C	0.078	0.017	8.66E-06	7950

genus.Barnesiella.id.944	rs28380027	C	T	-0.081	0.019	8.66E-06	14207
genus.DefluviitaleaceaeUCG011.id.11287	rs6952956	C	T	-0.108	0.024	8.66E-06	8011
genus.Anaerofilum.id.2053	rs10802455	A	G	0.093	0.021	8.66E-06	4935
genus.Coprococcus3.id.11303	rs38665	T	C	-0.051	0.011	8.66E-06	15472
genus.Oscillibacter.id.2063	rs9885928	G	A	-0.067	0.015	8.66E-06	8930
genus.Blautia.id.1992	rs67402703	G	A	0.054	0.012	8.66E-06	18275
genus.Sutterella.id.2896	rs2142955	C	T	-0.059	0.013	8.66E-06	13254
genus.ErysipelotrichaceaeUCG003.id.11384	rs16905331	T	C	0.119	0.027	8.65E-06	12542
genus.Butyricococcus.id.2055	rs2390280	G	A	0.080	0.018	8.65E-06	17135
genus.LachnospiraceaeNK4A136group.id.11319	rs34513148	A	G	-0.052	0.011	8.65E-06	17233
genus.RikenellaceaeRC9gutgroup.id.11191	rs7945830	G	A	0.111	0.025	8.65E-06	3333
genus.ErysipelotrichaceaeUCG003.id.11384	rs74988980	A	G	-0.133	0.035	8.64E-06	5944
genus.Prevotella9.id.11183	rs10204077	G	A	-0.133	0.030	8.64E-06	8341
genus.ErysipelotrichaceaeUCG003.id.11384	rs79396538	G	C	0.085	0.019	8.63E-06	13750
genus.LachnospiraceaeFCS020group.id.11314	rs6770438	T	C	0.057	0.013	8.63E-06	13772
genus.Bilophila.id.3170	rs2713349	T	A	0.062	0.014	8.63E-06	12853
genus.Anaerotruncus.id.2054	rs9603210	A	G	0.083	0.019	8.63E-06	16566
genus.Butyrivibrio.id.1993	rs68014746	G	A	0.114	0.026	8.63E-06	3476
genus.RuminococcaceaeUCG005.id.11363	rs7150192	C	T	0.063	0.014	8.63E-06	16098
genus.Bifidobacterium.id.436	rs6728095	A	T	0.053	0.012	8.62E-06	14778
genus.Eubacteriumruminantiumgroup.id.11340	rs17459885	T	C	0.105	0.023	8.62E-06	7710
genus.FamilyXIIIUCG001.id.11294	rs4907093	A	G	-0.058	0.013	8.62E-06	12751
genus.Coprococcus1.id.11301	rs946513	T	C	0.206	0.046	8.62E-06	4310
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs79895140	C	T	-0.064	0.014	8.62E-06	16139
genus.RuminococcaceaeUCG005.id.11363	rs17541562	G	C	0.144	0.032	8.62E-06	9342
genus.Marvinbryantia.id.2005	rs2768426	T	C	-0.072	0.016	8.62E-06	11608
genus.Dialister.id.2183	rs10132469	G	A	-0.113	0.026	8.62E-06	10968
genus.Lactobacillus.id.1837	rs1529819	G	A	-0.077	0.017	8.62E-06	6957
genus.Clostridiuminnocuumgroup.id.14397	rs40656	T	C	0.143	0.031	8.62E-06	4048
genus.RuminococcaceaeUCG003.id.11361	rs6985148	A	T	-0.060	0.013	8.61E-06	14412
genus.Gordonibacter.id.821	rs13412653	C	A	0.108	0.024	8.61E-06	3723

genus.Ruminococcus2.id.11374	rs6537942	A	G	0.070	0.016	8.61E-06	15339
genus.Intestinibacter.id.11345	rs2039380	C	G	-0.108	0.024	8.60E-06	11886
genus.Paraprevotella.id.962	rs3008584	T	C	0.101	0.022	8.60E-06	7179
genus.RuminococcaceaeUCG013.id.11370	rs12336782	C	T	-0.086	0.019	8.60E-06	16772
genus.Holdemania.id.2157	rs10885477	C	T	-0.135	0.030	8.60E-06	8690
genus.Coprococcus2.id.11302	rs11099043	T	A	0.064	0.014	8.60E-06	11484
genus.Olsenella.id.822	rs6035499	A	G	0.120	0.027	8.59E-06	3705
genus.Subdoligranulum.id.2070	rs875423	G	A	0.048	0.011	8.59E-06	17591
genus..Ruminococcusgnavusgroup.id.14376	rs13166543	T	C	-0.089	0.020	8.59E-06	6401
genus.Lactococcus.id.1851	rs12623273	G	A	-0.168	0.039	8.59E-06	4021
genus..Eubacteriumrectalegroup.id.14374	rs763963	A	G	-0.094	0.022	8.59E-06	15614
genus.Collinsella.id.815	rs2831291	G	A	0.074	0.017	8.59E-06	14334
genus.LachnospiraceaeUCG004.id.11324	rs1020709	G	A	-0.056	0.013	8.59E-06	14465
genus.LachnospiraceaeFCS020group.id.11314	rs249938	C	T	0.116	0.025	8.59E-06	12731
genus.Howardella.id.2000	rs10048062	T	C	-0.147	0.034	8.59E-06	3800
genus.Butyricicoccus.id.2055	rs10084203	G	A	0.055	0.012	8.59E-06	17135
genus.Preotella9.id.11183	rs4968431	T	G	0.064	0.014	8.58E-06	10271
genus.Enterorhabdus.id.820	rs7774871	G	T	-0.074	0.017	8.58E-06	7524
genus.Alloprevotella.id.961	rs4364940	G	A	0.126	0.028	8.58E-06	3008
genus.Collinsella.id.815	rs73068166	T	G	-0.103	0.024	8.58E-06	13473
genus.Lactococcus.id.1851	rs10416229	C	G	0.109	0.025	8.58E-06	4057
genus.Ruminiclostridium6.id.11356	rs792058	A	G	0.055	0.013	8.58E-06	12933
genus..Ruminococcusgnavusgroup.id.14376	rs6868279	T	G	-0.081	0.018	8.58E-06	6401
genus.Bacteroides.id.918	rs79325005	A	G	0.057	0.013	8.58E-06	18187
genus.Lactobacillus.id.1837	rs7832262	G	A	-0.077	0.017	8.58E-06	6958
genus.Peptococcus.id.2037	rs317070	A	C	-0.099	0.022	8.57E-06	5656
genus.ChristensenellaceaeR.7group.id.11283	rs2188617	T	C	0.049	0.011	8.57E-06	16324
genus.Intestinimonas.id.2062	rs6934519	T	C	0.069	0.015	8.57E-06	12089
genus..Eubacteriumoxidoreducensgroup.id.11339	rs1999981	T	G	0.088	0.020	8.57E-06	5378
genus.Coprococcus1.id.11301	rs73167075	C	T	0.057	0.013	8.57E-06	16733
genus.Parasutterella.id.2892	rs7962688	T	A	0.059	0.014	8.57E-06	11386

genus.Subdoligranulum.id.2070	rs1954128	G	A	-0.054	0.012	8.57E-06	17165
genus.Anaerostipes.id.1991	rs2149112	A	G	-0.049	0.011	8.57E-06	16926
genus.RuminococcaceaeUCG014.id.11371	rs332065	G	A	-0.057	0.013	8.56E-06	14403
genus.Victivallis.id.2256	rs2093420	C	T	-0.118	0.026	8.56E-06	3267
genus.Akkermansia.id.4037	rs36010840	C	T	0.063	0.014	8.56E-06	11863
genus.Butyrvibrio.id.1993	rs17163231	A	G	0.138	0.031	8.56E-06	3482
genus.Eggerthella.id.819	rs1559479	G	A	-0.105	0.023	8.56E-06	5147
genus.Eubacteriumbrachygroup.id.11296	rs17107539	C	T	-0.162	0.036	8.55E-06	3989
genus.Peptococcus.id.2037	rs74592222	A	G	0.138	0.030	8.55E-06	5329
genus.LachnospiraceaeNC2004group.id.11316	rs12137822	G	T	0.111	0.025	8.55E-06	6226
genus.Alistipes.id.968	rs4498432	G	C	-0.048	0.011	8.55E-06	17570
genus.FamilyXIIIAD3011group.id.11293	rs12820574	A	G	-0.087	0.019	8.55E-06	13632
genus.Ruminococcus1.id.11373	rs1466068	C	T	-0.050	0.011	8.55E-06	16596
genus.Lachnospira.id.2004	rs41526047	A	C	-0.057	0.013	8.55E-06	16490
genus.ChristensenellaceaeR.7group.id.11283	rs62467072	C	T	0.110	0.025	8.55E-06	12630
genus.Olsenella.id.822	rs6046512	T	C	0.120	0.027	8.54E-06	3705
genus.Oscillibacter.id.2063	rs12432377	A	G	-0.068	0.015	8.54E-06	8930
genus.Allisonella.id.2174	rs34754033	A	G	0.136	0.030	8.54E-06	3212
genus.CandidatusSoleaferrea.id.11350	rs7759014	A	G	-0.121	0.028	8.54E-06	6145
genus.Parabacteroides.id.954	rs7298818	T	C	0.089	0.020	8.54E-06	16510
genus.Coprococcus1.id.11301	rs7795598	A	G	-0.054	0.012	8.53E-06	16732
genus.Oxalobacter.id.2978	rs6065016	A	G	-0.095	0.021	8.53E-06	4634
genus.RuminococcaceaeUCG002.id.11360	rs73561254	C	T	-0.076	0.017	8.53E-06	16372
genus.Streptococcus.id.1853	rs2440146	T	C	-0.050	0.011	8.53E-06	16386
genus.Romboutsia.id.11347	rs28603357	C	T	-0.215	0.047	8.52E-06	3693
genus.Ruminococcustorquesgroup.id.14377	rs11667321	G	A	-0.047	0.011	8.52E-06	17798
genus.Lactococcus.id.1851	rs7245626	G	A	0.107	0.024	8.51E-06	4026
genus.Sellimonas.id.14369	rs73073226	T	C	-0.160	0.036	8.51E-06	3154
genus.Veillonella.id.2198	rs35668111	C	T	0.086	0.019	8.51E-06	9289
genus.RuminococcaceaeUCG014.id.11371	rs375561	C	A	-0.057	0.013	8.51E-06	14403
genus.ChristensenellaceaeR.7group.id.11283	rs12374987	C	T	0.110	0.025	8.51E-06	12719

genus.Bifidobacterium.id.436	rs842356	A	G	0.073	0.016	8.51E-06	14666
genus.Coprococcus1.id.11301	rs9360500	C	A	-0.049	0.011	8.51E-06	16732
genus.Butyriovibrio.id.1993	rs3844555	C	T	0.137	0.031	8.51E-06	3482
genus.ErysipelotrichaceaeUCG003.id.11384	rs214586	C	T	-0.106	0.024	8.50E-06	13505
genus.Akkermansia.id.4037	rs72663802	C	T	0.065	0.015	8.50E-06	11864
genus.Anaerostipes.id.1991	rs1590735	G	T	-0.049	0.011	8.50E-06	16925
genus.Fusicatenibacter.id.11305	rs792108	C	T	-0.051	0.011	8.50E-06	16978
genus.Lachnoclostridium.id.11308	rs9901268	G	A	0.091	0.021	8.49E-06	17199
genus.Eubacteriumnodatumgroup.id.11297	rs10826311	G	A	-0.110	0.025	8.49E-06	3295
genus.Lachnoclostridium.id.11308	rs983812	T	C	-0.051	0.011	8.49E-06	17922
genus.LachnospiraceaeFCS020group.id.11314	rs7989718	G	T	-0.058	0.013	8.49E-06	13772
genus.Hungatella.id.11306	rs13126978	A	G	-0.151	0.033	8.49E-06	3948
genus.Paraprevotella.id.962	rs76018378	G	A	-0.131	0.029	8.48E-06	7177
genus.Eubacteriumruminantiumgroup.id.11340	rs11988117	T	G	0.072	0.016	8.48E-06	7739
genus.Terrisporobacter.id.11348	rs7184125	C	T	0.091	0.021	8.48E-06	6232
genus.Lactococcus.id.1851	rs8105739	C	G	0.111	0.025	8.48E-06	4052
genus.Oxalobacter.id.2978	rs7616207	G	A	0.103	0.023	8.48E-06	4654
genus.Oscillibacter.id.2063	rs1007025	A	G	0.094	0.021	8.48E-06	8930
genus.Senegalimassilia.id.11160	rs11869966	A	G	-0.079	0.018	8.47E-06	6923
genus.LachnospiraceaeNK4A136group.id.11319	rs17770545	C	T	-0.051	0.012	8.47E-06	17236
genus.LachnospiraceaeND3007group.id.11317	rs8048165	A	G	-0.052	0.012	8.47E-06	15218
genus.Fusicatenibacter.id.11305	rs9727334	G	A	-0.051	0.012	8.47E-06	17379
genus.Blautia.id.1992	rs2917871	C	G	0.049	0.011	8.47E-06	18276
genus.Bacteroides.id.918	rs17788984	A	G	0.075	0.017	8.47E-06	17291
genus.RikenellaceaeRC9gutgroup.id.11191	rs1819327	A	G	-0.125	0.028	8.46E-06	3334
genus.Preotella9.id.11183	rs1967513	C	A	-0.065	0.015	8.46E-06	10271
genus.Blautia.id.1992	rs12668576	C	A	0.055	0.012	8.46E-06	18158
genus.Anaerotruncus.id.2054	rs17096167	A	G	0.056	0.013	8.46E-06	16117
genus.Ruminococcusgavreuiiigroup.id.11342	rs6807798	G	T	0.060	0.014	8.46E-06	13382
genus.Lachnospira.id.2004	rs7102091	C	T	-0.057	0.013	8.46E-06	16495
genus.ChristensenellaceaeR.7group.id.11283	rs73952017	T	C	-0.086	0.019	8.46E-06	15274

genus.Parasutterella.id.2892	rs7910184	T	C	-0.064	0.014	8.46E-06	11385
genus.Eubacteriumruminantiumgroup.id.11340	rs7858063	G	C	0.081	0.018	8.45E-06	7264
genus.Hungatella.id.11306	rs66548753	G	T	-0.151	0.033	8.45E-06	3950
genus.Eubacteriumventriosumgroup.id.11341	rs397124	C	T	-0.056	0.013	8.45E-06	15287
genus.LachnospiraceaeUCG001.id.11321	rs897	C	T	-0.065	0.014	8.45E-06	9961
genus.Odoribacter.id.952	rs80245222	G	T	-0.120	0.027	8.44E-06	11935
genus.RuminococcaceaeUCG013.id.11370	rs9324861	C	T	0.064	0.015	8.44E-06	16378
genus.Copro bacter.id.949	rs6496711	T	C	0.098	0.022	8.44E-06	6783
genus.RuminococcaceaeUCG013.id.11370	rs2730183	A	G	-0.049	0.011	8.44E-06	16772
genus.FamilyXIIIAD3011group.id.11293	rs12303886	G	A	-0.087	0.019	8.44E-06	13635
genus.Ruminiclostridium5.id.11355	rs2801958	C	T	0.051	0.012	8.44E-06	17386
genus.Anaerostipes.id.1991	rs1927482	T	C	-0.049	0.011	8.44E-06	16925
genus.LachnospiraceaeFCS020group.id.11314	rs10923439	A	T	-0.054	0.012	8.43E-06	13766
genus.LachnospiraceaeUCG001.id.11321	rs77867174	G	C	0.106	0.024	8.43E-06	10097
genus.Ruminiclostridium9.id.11357	rs62287934	C	G	-0.051	0.011	8.43E-06	16725
genus.LachnospiraceaeUCG001.id.11321	rs9376841	A	G	0.104	0.023	8.43E-06	10097
genus.Tyzz erella3.id.11335	rs112715294	A	C	-0.214	0.048	8.42E-06	3857
genus.Tyzz erella3.id.11335	rs73291121	A	G	-0.214	0.048	8.42E-06	3857
genus.Tyzz erella3.id.11335	rs111287803	T	C	-0.214	0.048	8.42E-06	3857
genus.Tyzz erella3.id.11335	rs113312668	A	G	-0.214	0.048	8.42E-06	3857
genus.LachnospiraceaeUCG008.id.11328	rs7110926	A	G	-0.087	0.019	8.42E-06	7017
genus.Fusicatenibacter.id.11305	rs2095811	G	A	-0.051	0.012	8.42E-06	17376
genus.Butyricimonas.id.945	rs2924725	C	T	0.068	0.015	8.42E-06	10733
genus.Eubacteriumventriosumgroup.id.11341	rs11157826	C	T	-0.062	0.014	8.42E-06	15288
genus.Akkermansia.id.4037	rs12024893	A	G	0.063	0.014	8.42E-06	11863
genus.Ruminococcusgavreauigroup.id.11342	rs36120874	A	G	0.071	0.016	8.42E-06	12839
genus.RikenellaceaeRC9gutgroup.id.11191	rs61860639	G	A	0.112	0.025	8.41E-06	3318
genus.Oxalobacter.id.2978	rs62281792	A	G	0.147	0.032	8.41E-06	4656
genus.RuminococcaceaeUCG002.id.11360	rs62371738	T	C	-0.055	0.012	8.41E-06	17094
genus.Lactococcus.id.1851	rs12712302	A	G	0.108	0.024	8.41E-06	4057
genus.Clostridiuminnocuumgroup.id.14397	rs77845139	G	A	-0.115	0.026	8.41E-06	4048

genus..Clostridiuminnocuumgroup.id.14397	rs6577484	A	G	0.160	0.036	8.41E-06	3858
genus.LachnospiraceaeUCG001.id.11321	rs6956068	A	C	-0.074	0.017	8.41E-06	10150
genus.Subdoligranulum.id.2070	rs1599742	G	A	0.048	0.011	8.40E-06	17587
genus.Bifidobacterium.id.436	rs10193171	G	A	0.053	0.012	8.40E-06	14778
genus.Ruminiclostridium5.id.11355	rs78912587	A	G	0.081	0.018	8.40E-06	16570
genus.Sutterella.id.2896	rs1033434	G	T	-0.059	0.013	8.40E-06	13254
genus.Collinsella.id.815	rs548708	C	T	0.054	0.012	8.40E-06	14334
genus..Eubacteriumeligensgroup.id.14372	rs182318	A	G	-0.082	0.020	8.40E-06	14777
genus.Blautia.id.1992	rs17147246	C	G	0.054	0.012	8.40E-06	18273
genus..Eubacteriumruminantiumgroup.id.11340	rs951265	G	A	-0.074	0.017	8.40E-06	7314
genus.Sellimonas.id.14369	rs41816	G	A	0.132	0.029	8.39E-06	3154
genus.RuminococcaceaeNK4A214group.id.11358	rs4663856	C	A	-0.051	0.012	8.39E-06	15288
genus.Parasutterella.id.2892	rs62273920	C	T	0.226	0.050	8.39E-06	3691
genus.Phascolarctobacterium.id.2168	rs10168874	A	G	0.062	0.014	8.39E-06	11114
genus.Parasutterella.id.2892	rs6593368	G	A	-0.064	0.014	8.39E-06	11385
genus.LachnospiraceaeND3007group.id.11317	rs28552479	A	G	-0.052	0.012	8.39E-06	15301
genus.FamilyXIIIAD3011group.id.11293	rs35087346	T	A	-0.087	0.019	8.39E-06	13631
genus.Paraprevotella.id.962	rs2058083	C	T	-0.078	0.017	8.38E-06	7179
genus.Ruminococcus1.id.11373	rs10995816	G	C	-0.076	0.017	8.38E-06	16597
genus.Holdmania.id.2157	rs967319	C	T	0.079	0.018	8.38E-06	9108
genus..Eubacteriumruminantiumgroup.id.11340	rs829969	G	A	0.081	0.018	8.38E-06	7263
genus.Subdoligranulum.id.2070	rs10497836	T	C	-0.052	0.012	8.38E-06	17579
genus.Oscillibacter.id.2063	rs16866373	A	T	0.095	0.021	8.38E-06	8930
genus.CandidatusSoleaferrea.id.11350	rs62203853	C	A	0.100	0.022	8.38E-06	6050
genus.RuminococcaceaeUCG013.id.11370	rs2428106	G	C	-0.049	0.011	8.38E-06	16768
genus..Ruminococcustorquesgroup.id.14377	rs2109479	A	G	0.056	0.013	8.37E-06	17798
genus.Ruminiclostridium6.id.11356	rs10837369	C	T	0.060	0.014	8.37E-06	13380
genus.Eggerthella.id.819	rs6430926	T	C	0.088	0.020	8.37E-06	5147
genus.RuminococcaceaeUCG003.id.11361	rs11778761	C	A	-0.060	0.013	8.37E-06	14412
genus..Ruminococcustorquesgroup.id.14377	rs10967781	A	C	0.051	0.011	8.37E-06	17791
genus.Alloprevotella.id.961	rs2154444	G	T	0.138	0.031	8.37E-06	3009

genus.Turicibacter.id.2162	rs3734632	C	T	-0.119	0.027	8.37E-06	8626
genus.Slackia.id.825	rs79393841	G	A	-0.117	0.026	8.37E-06	6063
genus..Eubacteriumnodatumgroup.id.11297	rs10458299	C	T	-0.188	0.042	8.37E-06	3271
genus.Gordonibacter.id.821	rs61934597	T	C	-0.172	0.039	8.37E-06	3684
genus.ErysipelotrichaceaeUCG003.id.11384	rs73311068	A	G	0.119	0.027	8.37E-06	12542
genus.ErysipelotrichaceaeUCG003.id.11384	rs73311066	G	C	0.119	0.027	8.37E-06	12542
genus..Ruminococcustorquesgroup.id.14377	rs6502380	A	G	0.047	0.011	8.37E-06	17798
genus.Copro bacter.id.949	rs10852138	A	C	0.098	0.022	8.36E-06	6790
genus.Fusicatenibacter.id.11305	rs9727359	G	T	-0.051	0.012	8.36E-06	17379
genus..Eubacteriumventriosumgroup.id.11341	rs35298140	C	T	0.075	0.017	8.35E-06	14835
genus.unknowngenus.id.959	rs11691923	A	G	-0.092	0.021	8.35E-06	4862
genus.Ruminiclostridium9.id.11357	rs6780477	G	T	-0.051	0.011	8.35E-06	16725
genus..Ruminococcusgnavusgroup.id.14376	rs329894	A	G	-0.081	0.018	8.35E-06	6398
genus.Butyrivibrio.id.1993	rs465782	G	A	-0.118	0.026	8.35E-06	3482
genus.FamilyXIIIUCG001.id.11294	rs62414804	C	T	-0.060	0.013	8.35E-06	12750
genus.Dorea.id.1997	rs3005519	A	G	0.050	0.011	8.35E-06	17610
genus.LachnospiraceaeND3007group.id.11317	rs2549191	C	G	-0.052	0.012	8.34E-06	15218
genus.Catenibacterium.id.2153	rs7795142	G	T	0.127	0.028	8.34E-06	3239
genus.Ruminiclostridium6.id.11356	rs74930322	C	T	0.112	0.025	8.34E-06	11950
genus.RuminococcaceaeUCG002.id.11360	rs73561259	A	T	-0.076	0.017	8.34E-06	16371
genus.RuminococcaceaeUCG003.id.11361	rs13262757	A	T	-0.060	0.013	8.34E-06	14412
genus.Paraprevotella.id.962	rs9547347	A	G	-0.098	0.022	8.33E-06	6647
genus.CandidatusSoleaferrea.id.11350	rs386526	G	C	0.082	0.018	8.33E-06	6144
genus.Enterorhabdus.id.820	rs10113034	T	G	0.131	0.029	8.33E-06	7361
genus.Barnesiella.id.944	rs6466817	C	T	-0.054	0.012	8.33E-06	13945
genus.Ruminiclostridium6.id.11356	rs648798	C	T	-0.140	0.033	8.33E-06	6881
genus.ChristensenellaceaeR.7group.id.11283	rs62467071	C	T	0.111	0.025	8.33E-06	12630
genus.RuminococcaceaeNK4A214group.id.11358	rs113462046	C	A	0.061	0.014	8.33E-06	14822
genus.Catenibacterium.id.2153	rs73117447	G	T	0.126	0.028	8.32E-06	3239
genus.Romboutsia.id.11347	rs12046777	A	T	-0.086	0.020	8.32E-06	14186
genus.RuminococcaceaeNK4A214group.id.11358	rs6844250	T	G	-0.055	0.012	8.32E-06	15269

genus.Akkermansia.id.4037	rs4595371	A	G	0.063	0.014	8.32E-06	11863
genus.Ruminococcus2.id.11374	rs12000599	C	A	0.070	0.016	8.32E-06	15339
genus.Akkermansia.id.4037	rs4294419	G	A	0.063	0.014	8.32E-06	11863
genus.Coprococcus2.id.11302	rs10121347	G	C	0.093	0.022	8.31E-06	11457
genus.Erysipelatoclostridium.id.11381	rs2003163	G	A	-0.066	0.015	8.31E-06	9783
genus.Butyrvibrio.id.1993	rs34115873	G	A	0.114	0.026	8.31E-06	3477
genus.Victivallis.id.2256	rs2093422	T	A	-0.118	0.026	8.31E-06	3267
genus.Copro bacter.id.949	rs6496712	T	G	0.088	0.020	8.31E-06	6791
genus.Collinsella.id.815	rs62102630	G	A	-0.070	0.015	8.31E-06	14334
genus.Sellimonas.id.14369	rs74947509	T	C	-0.161	0.036	8.30E-06	3154
genus.Roseburia.id.2012	rs57466170	T	C	0.074	0.017	8.30E-06	17333
genus.LachnospiraceaeUCG008.id.11328	rs9823432	T	G	-0.110	0.025	8.30E-06	6577
genus..Ruminococcustorquesgroup.id.14377	rs11171713	G	A	0.087	0.020	8.30E-06	17011
genus.Desulfovibrio.id.3173	rs72647089	G	T	-0.107	0.024	8.30E-06	8985
genus.Holdemania.id.2157	rs75763390	A	G	-0.130	0.029	8.30E-06	8432
genus.Lachnospira.id.2004	rs35418758	C	A	0.086	0.019	8.30E-06	16042
genus.Fusicatenibacter.id.11305	rs73103914	G	A	-0.060	0.013	8.30E-06	17384
genus.RuminococcaceaeUCG002.id.11360	rs10927426	G	T	-0.069	0.016	8.30E-06	16984
genus.Erysipelatoclostridium.id.11381	rs2114978	T	C	-0.066	0.015	8.29E-06	9783
genus.Akkermansia.id.4037	rs736124	T	A	-0.074	0.017	8.29E-06	11592
genus.Howardella.id.2000	rs6855681	A	C	-0.107	0.024	8.29E-06	3800
genus.Ruminiclostridium9.id.11357	rs10444612	C	T	0.068	0.015	8.29E-06	16725
genus.Ruminococcus2.id.11374	rs78786052	T	A	0.070	0.016	8.29E-06	15339
genus.Tyzzere lla3.id.11335	rs10414675	A	G	0.096	0.021	8.29E-06	4948
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs58433508	A	G	-0.074	0.017	8.29E-06	17371
genus..Eubacteriumhalliigroup.id.11338	rs78056098	T	G	-0.051	0.011	8.29E-06	16568
genus.Anaerofilum.id.2053	rs2486027	G	T	-0.182	0.041	8.29E-06	4855
genus.Parasutterella.id.2892	rs12500587	T	G	-0.063	0.014	8.28E-06	11386
genus.Escherichia.Shigella.id.3504	rs590488	C	T	-0.058	0.013	8.28E-06	11995
genus.Ruminiclostridium9.id.11357	rs12856365	A	T	0.068	0.015	8.28E-06	16725
genus.Haemophilus.id.3698	rs40513	T	G	0.118	0.026	8.28E-06	8539

genus.Parasutterella.id.2892	rs6778417	A	C	-0.066	0.015	8.28E-06	11386
genus.Allisonella.id.2174	rs4743082	T	G	0.134	0.030	8.28E-06	3212
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs62025228	G	T	-0.080	0.018	8.27E-06	17271
genus.LachnospiraceaeUCG001.id.11321	rs79476906	A	T	-0.087	0.020	8.27E-06	9917
genus.Parasutterella.id.2892	rs56259060	C	A	-0.066	0.015	8.27E-06	11385
genus.Alistipes.id.968	rs1115881	G	A	-0.048	0.011	8.27E-06	17570
genus.Intestinibacter.id.11345	rs10811563	A	T	-0.101	0.024	8.27E-06	12303
genus..Eubacteriumfissicatenaingroup.id.14373	rs10147907	G	T	0.172	0.040	8.27E-06	3833
genus.RuminococcaceaeUCG013.id.11370	rs10225502	A	C	-0.050	0.011	8.27E-06	16770
genus.ChristensenellaceaeR.7group.id.11283	rs4805124	G	C	0.049	0.011	8.27E-06	16325
genus.Subdoligranulum.id.2070	rs4552435	T	C	-0.051	0.012	8.27E-06	17590
genus.Sellimonas.id.14369	rs55953604	A	G	-0.161	0.036	8.27E-06	3154
genus.LachnospiraceaeUCG008.id.11328	rs9836360	G	A	-0.110	0.025	8.26E-06	6577
genus.Blautia.id.1992	rs2017197	C	G	0.115	0.025	8.26E-06	14708
genus.Coprococcus2.id.11302	rs35890118	G	A	-0.067	0.015	8.26E-06	11478
genus.Slackia.id.825	rs72606680	T	C	-0.116	0.026	8.26E-06	6063
genus.Marvinbryantia.id.2005	rs6768572	C	T	0.061	0.014	8.26E-06	11948
genus..Clostridiuminnocuumgroup.id.14397	rs57004694	T	C	0.144	0.032	8.26E-06	4166
genus.LachnospiraceaeUCG008.id.11328	rs11025186	G	A	-0.116	0.026	8.25E-06	7017
genus.Ruminiclostridium9.id.11357	rs9846988	A	G	-0.050	0.011	8.25E-06	16722
genus.Olsenella.id.822	rs6035500	A	G	0.121	0.027	8.25E-06	3705
genus.Streptococcus.id.1853	rs57441879	G	A	0.096	0.021	8.25E-06	15292
genus.Sellimonas.id.14369	rs17657328	T	C	0.115	0.025	8.25E-06	3154
genus.CandidatusSoleaferrea.id.11350	rs12206634	G	A	-0.122	0.028	8.25E-06	6104
genus.Blautia.id.1992	rs3005519	A	G	0.049	0.011	8.25E-06	18276
genus.Holdmania.id.2157	rs9542254	T	C	0.073	0.016	8.25E-06	9109
genus.Slackia.id.825	rs77641019	A	T	-0.116	0.026	8.25E-06	6063
genus.Butyricimonas.id.945	rs72814525	G	A	0.066	0.015	8.25E-06	10736
genus.Escherichia.Shigella.id.3504	rs2798105	G	A	-0.101	0.022	8.25E-06	11296
genus.Coprococcus3.id.11303	rs6995587	T	A	0.055	0.012	8.24E-06	15834
genus.RikenellaceaeRC9gutgroup.id.11191	rs11597199	C	T	0.112	0.025	8.24E-06	3320

genus.unknowngenus.id.1000005479	rs1398206	G	A	0.078	0.017	8.24E-06	7949
genus.Lactobacillus.id.1837	rs57326358	A	G	-0.122	0.027	8.24E-06	6613
genus.Butyricimonas.id.945	rs605188	C	T	0.062	0.014	8.24E-06	10737
genus.RuminococcaceaeUCG003.id.11361	rs11778766	C	A	-0.060	0.013	8.23E-06	14412
genus..Eubacteriumhalliigroup.id.11338	rs368871882	T	C	0.232	0.052	8.23E-06	3039
genus.LachnospiraceaeFCS020group.id.11314	rs9818658	T	G	0.055	0.012	8.23E-06	13772
genus.Sellimonas.id.14369	rs77979921	T	A	-0.120	0.027	8.23E-06	3154
genus.Sutterella.id.2896	rs9350083	G	T	-0.059	0.013	8.23E-06	13254
genus.Eggerthella.id.819	rs2075012	A	T	-0.089	0.020	8.23E-06	5147
genus.Phascolarctobacterium.id.2168	rs28525131	A	G	-0.119	0.027	8.23E-06	10457
genus.LachnospiraceaeFCS020group.id.11314	rs9851122	G	A	0.055	0.012	8.23E-06	13772
genus.Collinsella.id.815	rs12921100	T	A	0.056	0.013	8.23E-06	14334
genus.Bifidobacterium.id.436	rs41389446	G	T	-0.082	0.018	8.22E-06	13806
genus.FamilyXIIIUCG001.id.11294	rs62414824	T	C	-0.060	0.013	8.22E-06	12748
genus..Ruminococcustorquesgroup.id.14377	rs1689512	A	G	0.072	0.016	8.22E-06	17011
genus.Eisenbergiella.id.11304	rs11938607	C	T	0.098	0.022	8.22E-06	5583
genus.Lachnospira.id.2004	rs213581	C	T	0.079	0.018	8.22E-06	16487
genus.Adlercreutzia.id.812	rs9915817	C	T	0.075	0.017	8.22E-06	8243
genus.Peptococcus.id.2037	rs117854205	C	G	-0.132	0.030	8.21E-06	5627
genus.Adlercreutzia.id.812	rs9966313	C	T	-0.095	0.021	8.21E-06	8243
genus..Eubacteriumventriosumgroup.id.11341	rs10130880	C	G	-0.053	0.012	8.21E-06	15288
genus.Butyricimonas.id.945	rs1900181	T	A	0.064	0.014	8.21E-06	10737
genus.Victivallis.id.2256	rs7651518	T	G	0.112	0.025	8.21E-06	3266
genus.Alistipes.id.968	rs2297256	G	A	-0.048	0.011	8.21E-06	17571
genus.Alistipes.id.968	rs12990744	T	C	-0.078	0.017	8.21E-06	16694
genus.Peptococcus.id.2037	rs437943	T	C	-0.089	0.020	8.21E-06	5657
genus.Escherichia.Shigella.id.3504	rs112767262	C	T	0.073	0.016	8.21E-06	11771
genus.Allisonella.id.2174	rs3747511	C	G	0.134	0.030	8.20E-06	3212
genus.Eggerthella.id.819	rs1738091	A	T	0.099	0.022	8.20E-06	5147
genus.RuminococcaceaeUCG011.id.11368	rs6966809	G	A	0.110	0.024	8.20E-06	3632
genus.RuminococcaceaeUCG014.id.11371	rs46066	G	C	-0.057	0.013	8.20E-06	14403

genus..Eubacteriumfissicatenagroup.id.14373	rs11818408	A	G	0.106	0.024	8.20E-06	3590
genus.RuminococcaceaeUCG004.id.11362	rs2248146	C	T	0.069	0.015	8.20E-06	9502
genus.Olsenella.id.822	rs2235894	C	T	0.120	0.027	8.20E-06	3705
genus.Slackia.id.825	rs10853973	C	T	0.101	0.023	8.20E-06	5941
genus.Intestinibacter.id.11345	rs12210583	G	T	0.155	0.035	8.20E-06	7660
genus.Ruminiclostridium6.id.11356	rs11584262	G	A	0.113	0.025	8.20E-06	12602
genus.LachnospiraceaeNC2004group.id.11316	rs6478407	T	C	0.093	0.021	8.20E-06	6329
genus.Dialister.id.2183	rs76680460	A	G	-0.161	0.036	8.19E-06	7176
genus.Bifidobacterium.id.436	rs12986776	G	C	0.055	0.012	8.19E-06	14778
genus.Butyrvibrio.id.1993	rs7527753	C	T	0.169	0.037	8.19E-06	3482
genus.Butyricimonas.id.945	rs326049	G	C	0.076	0.017	8.19E-06	10557
genus.Butyrvibrio.id.1993	rs4928024	G	A	-0.175	0.039	8.19E-06	3481
genus.Butyrvibrio.id.1993	rs2310984	A	G	0.114	0.026	8.19E-06	3479
genus.ErysipelotrichaceaeUCG003.id.11384	rs73311093	C	T	0.120	0.027	8.18E-06	12542
genus.LachnospiraceaeUCG001.id.11321	rs9390195	G	T	0.106	0.024	8.18E-06	10097
genus.RuminococcaceaeUCG005.id.11363	rs10937802	A	G	0.076	0.017	8.17E-06	15821
genus.RuminococcaceaeUCG002.id.11360	rs4413527	C	T	-0.054	0.012	8.17E-06	16651
genus.Parasutterella.id.2892	rs11720748	C	A	-0.065	0.015	8.17E-06	11385
genus.Ruminiclostridium9.id.11357	rs959654	A	T	-0.051	0.011	8.17E-06	16725
genus.Dorea.id.1997	rs1469588	C	A	0.054	0.012	8.17E-06	17599
genus.Slackia.id.825	rs59106370	C	A	-0.100	0.023	8.17E-06	6063
genus.Fusicatenibacter.id.11305	rs9728894	C	A	-0.051	0.011	8.17E-06	17379
genus.RuminococcaceaeUCG004.id.11362	rs9405542	C	T	-0.078	0.017	8.16E-06	9502
genus.RuminococcaceaeUCG013.id.11370	rs7784330	A	G	-0.050	0.011	8.16E-06	16770
genus.LachnospiraceaeNC2004group.id.11316	rs147584039	C	T	-0.154	0.035	8.16E-06	5516
genus.Ruminiclostridium5.id.11355	rs1223978	C	T	0.048	0.011	8.16E-06	17381
genus.Oscillibacter.id.2063	rs12879432	C	T	-0.068	0.015	8.16E-06	8930
genus.Victivallis.id.2256	rs342302	G	A	-0.153	0.035	8.16E-06	3265
genus..Eubacteriumhalliigroup.id.11338	rs6437918	C	T	-0.052	0.012	8.16E-06	16568
genus..Eubacteriumbrachygroup.id.11296	rs73199919	C	T	-0.237	0.053	8.16E-06	3008
genus.Parasutterella.id.2892	rs62273908	A	G	0.226	0.050	8.15E-06	3691

genus.Parasutterella.id.2892	rs62273909	T	C	0.226	0.050	8.15E-06	3691
genus.Clostridiumsensustricto1.id.1873	rs118086821	C	T	0.107	0.025	8.15E-06	12908
genus.Bifidobacterium.id.436	rs17241561	G	T	-0.059	0.013	8.14E-06	14778
genus.Faecalibacterium.id.2057	rs79656633	C	T	0.146	0.032	8.14E-06	9080
genus.RuminococcaceaeUCG002.id.11360	rs58591149	T	A	-0.076	0.017	8.13E-06	16373
genus..Ruminococcustorquesgroup.id.14377	rs1475330	C	T	0.052	0.012	8.13E-06	17353
genus.Parasutterella.id.2892	rs575475	G	A	0.059	0.014	8.13E-06	11386
genus.LachnospiraceaeFCS020group.id.11314	rs4680693	A	T	0.057	0.013	8.13E-06	13772
genus.Parasutterella.id.2892	rs6809952	A	G	-0.068	0.015	8.13E-06	11077
genus.RuminococcaceaeUCG009.id.11366	rs6952765	A	G	0.073	0.017	8.13E-06	7511
genus.Prevotella9.id.11183	rs2104588	C	T	0.106	0.024	8.13E-06	9268
genus.Parasutterella.id.2892	rs62278066	G	A	0.226	0.050	8.13E-06	3647
genus.RikenellaceaeRC9gutgroup.id.11191	rs7103176	G	A	0.112	0.025	8.13E-06	3334
genus.Roseburia.id.2012	rs302266	C	T	-0.078	0.017	8.13E-06	17056
genus.Ruminiclostridium6.id.11356	rs16934480	A	G	0.069	0.015	8.12E-06	13381
genus.LachnospiraceaeUCG001.id.11321	rs7616374	T	C	0.065	0.014	8.12E-06	10148
genus.RuminococcaceaeUCG004.id.11362	rs7569771	G	A	-0.076	0.017	8.12E-06	9502
genus..Eubacteriumbrachygroup.id.11296	rs11818152	C	T	-0.113	0.025	8.12E-06	4001
genus.Blautia.id.1992	rs1529992	T	G	0.049	0.011	8.12E-06	18276
genus.Odoribacter.id.952	rs17781675	G	A	-0.123	0.028	8.12E-06	11471
genus.Adlercreutzia.id.812	rs36008107	A	C	-0.128	0.028	8.11E-06	8121
genus..Ruminococcusgnavusgroup.id.14376	rs2132502	T	G	-0.082	0.018	8.11E-06	6401
genus.Eggerthella.id.819	rs1784438	C	T	0.089	0.020	8.11E-06	5147
genus..Eubacteriumhalliigroup.id.11338	rs4682182	C	T	-0.052	0.012	8.11E-06	16567
genus.Anaerostipes.id.1991	rs10961808	C	T	0.052	0.012	8.11E-06	16924
genus.Flavonifractor.id.2059	rs6761463	C	G	-0.083	0.018	8.11E-06	10805
genus..Ruminococcusgavreuiigroup.id.11342	rs11940874	G	A	0.073	0.017	8.11E-06	13382
genus.Gordonibacter.id.821	rs35042269	A	C	-0.180	0.040	8.11E-06	3595
genus.Coprobacter.id.949	rs1927591	T	A	0.078	0.017	8.11E-06	6795
genus.Prevotella9.id.11183	rs13385890	C	G	-0.133	0.030	8.10E-06	8343
genus.Lactobacillus.id.1837	rs1434765	C	A	-0.077	0.017	8.10E-06	6957

genus.Allisonella.id.2174	rs12552101	T	C	0.136	0.030	8.10E-06	3212
genus.RuminococcaceaeNK4A214group.id.11358	rs35829475	C	T	-0.054	0.012	8.10E-06	15277
genus.Butyrivibrio.id.1993	rs4627235	G	A	-0.126	0.028	8.10E-06	3477
genus.Bifidobacterium.id.436	rs35596805	A	G	0.070	0.016	8.10E-06	14778
genus.Streptococcus.id.1853	rs8191642	A	G	-0.060	0.014	8.09E-06	16384
genus.Fusicatenibacter.id.11305	rs12478647	T	C	-0.069	0.016	8.09E-06	16522
genus.Ruminococcus1.id.11373	rs10167839	G	A	0.052	0.012	8.09E-06	16605
genus.RuminococcaceaeUCG004.id.11362	rs9839906	A	C	0.075	0.017	8.09E-06	9502
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973289	G	A	0.087	0.020	8.09E-06	5378
genus.Enterorhabdus.id.820	rs6431383	C	T	0.128	0.029	8.09E-06	7524
genus.Bifidobacterium.id.436	rs10928507	G	A	0.053	0.012	8.08E-06	14778
genus..Eubacteriumbrachygroup.id.11296	rs965716	A	G	0.107	0.024	8.08E-06	4001
genus.Parasutterella.id.2892	rs6551867	C	A	0.059	0.013	8.08E-06	11385
genus.Intestinibacter.id.11345	rs2614596	T	C	0.059	0.013	8.08E-06	12296
genus.Intestinibacter.id.11345	rs9644855	C	G	-0.103	0.024	8.08E-06	12303
genus.Dialister.id.2183	rs2314294	C	T	0.087	0.019	8.08E-06	11339
genus.RuminococcaceaeUCG003.id.11361	rs16908643	G	A	-0.060	0.013	8.08E-06	14412
genus.Copro bacter.id.949	rs12996055	C	A	0.092	0.021	8.08E-06	6570
genus.Anaerostipes.id.1991	rs11197337	C	T	-0.049	0.011	8.07E-06	16925
genus.Holdemanella.id.11393	rs12414567	G	A	0.084	0.019	8.07E-06	7662
genus.Butyrivibrio.id.1993	rs9370258	G	T	0.119	0.027	8.07E-06	3259
genus.Hungatella.id.11306	rs10044993	A	C	0.140	0.032	8.07E-06	4209
genus..Ruminococcusgnavusgroup.id.14376	rs6861651	T	C	-0.090	0.020	8.07E-06	6399
genus.CandidatusSoleaferrea.id.11350	rs74188131	T	G	0.102	0.024	8.06E-06	5958
genus.Fusicatenibacter.id.11305	rs8028026	G	A	-0.079	0.018	8.06E-06	16522
genus.Sellimonas.id.14369	rs10229922	C	G	-0.120	0.027	8.06E-06	3154
genus.Lachnoclostridium.id.11308	rs13277801	T	C	-0.051	0.011	8.06E-06	17922
genus.Slackia.id.825	rs35156985	C	T	-0.156	0.035	8.06E-06	5965
genus.Bifidobacterium.id.436	rs11896918	A	G	0.093	0.020	8.06E-06	14778
genus.ChristensenellaceaeR.7group.id.11283	rs10487398	T	C	0.111	0.025	8.06E-06	12630
genus.Parasutterella.id.2892	rs4948777	T	C	-0.064	0.014	8.06E-06	11385

genus.Anaerofilum.id.2053	rs12057312	C	T	0.093	0.021	8.06E-06	4935
genus.Bilophila.id.3170	rs60178956	A	G	-0.062	0.014	8.06E-06	12777
genus.LachnospiraceaeNC2004group.id.11316	rs1929518	T	C	0.093	0.021	8.06E-06	6325
genus.Senegalimassilia.id.11160	rs10036909	T	C	0.186	0.040	8.05E-06	4996
genus.Oscillibacter.id.2063	rs4514587	G	T	-0.068	0.015	8.05E-06	8930
genus.CandidatusSoleaferrea.id.11350	rs10457187	G	A	-0.121	0.028	8.05E-06	6145
genus.LachnospiraceaeUCG010.id.11330	rs1408275	T	A	-0.062	0.014	8.05E-06	12816
genus.Methanobrevibacter.id.123	rs6776814	C	T	-0.189	0.042	8.05E-06	3283
genus.Peptococcus.id.2037	rs76697713	A	C	0.146	0.032	8.05E-06	5481
genus.Ruminococcusgnavusgroup.id.14376	rs13161892	T	C	-0.089	0.020	8.05E-06	6401
genus.RikenellaceaeRC9gutgroup.id.11191	rs10759383	C	G	-0.126	0.028	8.05E-06	3334
genus.Bifidobacterium.id.436	rs2491158	A	G	0.071	0.016	8.05E-06	14021
genus.Alistipes.id.968	rs4818001	T	C	-0.048	0.011	8.05E-06	17571
genus.Peptococcus.id.2037	rs4458693	G	A	0.124	0.029	8.05E-06	5657
genus.Eggerthella.id.819	rs1784444	T	C	0.089	0.020	8.04E-06	5147
genus.Anaerofilum.id.2053	rs9299345	C	T	-0.136	0.030	8.04E-06	5051
genus.LachnospiraceaeUCG001.id.11321	rs8104225	G	A	0.089	0.020	8.04E-06	9908
genus.Olsenella.id.822	rs6035503	A	T	0.121	0.027	8.04E-06	3705
genus.Parasutterella.id.2892	rs62278065	G	A	0.227	0.050	8.04E-06	3647
genus.Eubacteriumxylanophilumgroup.id.14375	rs3124075	C	T	0.055	0.012	8.04E-06	13309
genus.Holdemania.id.2157	rs12877506	A	G	-0.125	0.029	8.03E-06	8780
genus.Oxalobacter.id.2978	rs9812512	C	T	0.156	0.034	8.03E-06	4656
genus.Butyrivibrio.id.1993	rs7537	T	A	0.179	0.040	8.03E-06	3482
genus.Eubacteriumbrachygroup.id.11296	rs1935864	G	A	-0.159	0.036	8.03E-06	3999
genus.Ruminiclostridium6.id.11356	rs12781529	C	T	-0.094	0.022	8.03E-06	12802
genus.Dorea.id.1997	rs2917871	C	G	0.051	0.011	8.02E-06	17610
genus.Coprococcus1.id.11301	rs12192614	A	T	-0.049	0.011	8.02E-06	16732
genus.Sellimonas.id.14369	rs114478966	T	C	-0.162	0.036	8.02E-06	3154
genus.FamilyXIIIUCG001.id.11294	rs8076666	G	A	0.089	0.020	8.02E-06	12265
genus.LachnospiraceaeUCG004.id.11324	rs6429189	T	C	-0.058	0.013	8.02E-06	14466
genus.Ruminococcus1.id.11373	rs372099	G	C	-0.072	0.016	8.02E-06	16605

genus..Ruminococcustorquesgroup.id.14377	rs570794	T	C	-0.048	0.011	8.02E-06	17798
genus.Coprococcus1.id.11301	rs1762123	T	C	-0.089	0.020	8.01E-06	16724
genus.Ruminococcus2.id.11374	rs2997410	T	C	-0.055	0.012	8.01E-06	15336
genus..Eubacteriumhalliigroup.id.11338	rs10753292	A	C	0.057	0.013	8.01E-06	16566
genus.Coprococcus1.id.11301	rs12886051	C	G	-0.052	0.012	8.01E-06	16633
genus.Ruminococcus2.id.11374	rs55707116	A	C	0.087	0.019	8.01E-06	15336
genus.Sellimonas.id.14369	rs56201224	A	C	-0.162	0.036	8.00E-06	3154
genus.Bifidobacterium.id.436	rs6894830	C	T	-0.094	0.021	8.00E-06	14666
genus.LachnospiraceaeUCG004.id.11324	rs4134425	C	T	0.056	0.013	8.00E-06	14466
genus.Bifidobacterium.id.436	rs12022129	A	G	0.062	0.014	8.00E-06	14776
genus..Eubacteriumxylanophilumgroup.id.14375	rs849162	G	A	0.065	0.015	8.00E-06	13309
genus.Escherichia.Shigella.id.3504	rs118526	A	C	-0.059	0.014	8.00E-06	11853
genus.Lactococcus.id.1851	rs12973469	T	A	0.111	0.025	7.99E-06	4056
genus.Parasutterella.id.2892	rs12254433	G	C	-0.061	0.014	7.99E-06	11386
genus.Butyricococcus.id.2055	rs7320057	A	G	0.080	0.018	7.99E-06	17135
genus..Eubacteriumnodatumgroup.id.11297	rs11006576	G	A	-0.110	0.025	7.99E-06	3295
genus.Slackia.id.825	rs7840789	A	G	-0.116	0.026	7.99E-06	6063
genus..Clostridiuminnocuumgroup.id.14397	rs67260757	T	C	0.145	0.032	7.99E-06	4166
genus.Howardella.id.2000	rs61774465	A	C	-0.149	0.033	7.98E-06	3299
genus.Parasutterella.id.2892	rs79164092	G	A	0.226	0.050	7.98E-06	3691
genus.Gordonibacter.id.821	rs72939513	G	A	-0.214	0.049	7.98E-06	3435
genus.RuminococcaceaeUCG002.id.11360	rs73531566	G	A	-0.076	0.016	7.98E-06	16370
genus..Clostridiuminnocuumgroup.id.14397	rs11662417	C	G	0.145	0.032	7.98E-06	4166
genus.Roseburia.id.2012	rs1416695	A	G	0.048	0.011	7.98E-06	17849
genus.Bilophila.id.3170	rs1763359	T	C	-0.071	0.016	7.98E-06	12856
genus.Parasutterella.id.2892	rs72979695	C	T	0.086	0.019	7.98E-06	11298
genus.RuminococcaceaeUCG009.id.11366	rs113006825	C	T	-0.093	0.021	7.98E-06	7165
genus.Erysipelatoclostridium.id.11381	rs72671259	T	G	0.086	0.019	7.98E-06	9430
genus.Erysipelatoclostridium.id.11381	rs113403148	G	A	-0.105	0.024	7.98E-06	9368
genus.Anaerofilum.id.2053	rs59929070	A	G	0.111	0.025	7.97E-06	5051
genus.LachnospiraceaeFCS020group.id.11314	rs249932	C	T	0.120	0.026	7.97E-06	12465

genus.Tyzzarella3.id.11335	rs60791882	C	T	-0.214	0.048	7.97E-06	3857
genus.LachnospiraceaeUCG010.id.11330	rs72894970	G	A	0.218	0.049	7.97E-06	4316
genus.RikenellaceaeRC9gutgroup.id.11191	rs7712231	G	A	0.156	0.035	7.97E-06	3334
genus.Oscillibacter.id.2063	rs55633183	C	T	-0.126	0.028	7.97E-06	8492
genus.Sutterella.id.2896	rs2050185	A	G	0.058	0.013	7.97E-06	13243
genus.Adlercreutzia.id.812	rs1881618	T	C	-0.076	0.017	7.97E-06	8243
genus.Subdoligranulum.id.2070	rs1455937	G	A	-0.051	0.012	7.97E-06	17590
genus.Anaerostipes.id.1991	rs11197323	C	T	-0.049	0.011	7.97E-06	16925
genus.Eubacteriumbrachygroup.id.11296	rs13139592	C	T	-0.146	0.033	7.97E-06	3842
genus.Sellimonas.id.14369	rs487637	A	C	0.127	0.028	7.96E-06	3154
genus.Ruminococcusgnavusgroup.id.14376	rs13174809	G	C	-0.089	0.020	7.96E-06	6401
genus.Romboutsia.id.11347	rs114398731	C	G	-0.131	0.029	7.96E-06	10326
genus.Eubacteriumxylanophilumgroup.id.14375	rs78828165	C	T	-0.091	0.020	7.96E-06	13251
genus.FamilyXIIIAD3011group.id.11293	rs11043753	T	G	-0.078	0.017	7.95E-06	13635
genus.Ruminococcus2.id.11374	rs7032489	C	G	0.070	0.016	7.95E-06	15339
genus.Senegalimassilia.id.11160	rs17350373	G	A	0.077	0.017	7.95E-06	6923
genus.Eggerthella.id.819	rs1784432	C	G	0.089	0.020	7.95E-06	5147
genus.Actinomyces.id.423	rs4073240	A	G	0.075	0.017	7.94E-06	7468
genus.Ruminiclostridium6.id.11356	rs633372	G	A	0.055	0.012	7.94E-06	13381
genus.Ruminococcusgavreuiiigroup.id.11342	rs289379	A	G	-0.063	0.014	7.94E-06	13381
genus.Terrisporobacter.id.11348	rs58405430	T	G	0.135	0.030	7.94E-06	6176
genus.Alloprevotella.id.961	rs58212166	G	A	-0.162	0.036	7.94E-06	3005
genus.Sutterella.id.2896	rs10786607	A	G	-0.068	0.015	7.94E-06	12604
genus.Anaerostipes.id.1991	rs10502061	G	A	0.084	0.019	7.94E-06	16825
genus.Enterorhabdus.id.820	rs10097987	A	G	0.131	0.029	7.93E-06	7361
genus.Barnesiella.id.944	rs28479800	T	A	-0.092	0.021	7.93E-06	12399
genus.Eggerthella.id.819	rs2459479	T	C	0.089	0.020	7.93E-06	5147
genus.Lachnoclostridium.id.11308	rs1030431	G	A	-0.051	0.011	7.93E-06	17915
genus.Eisenbergiella.id.11304	rs12417319	T	C	-0.113	0.025	7.93E-06	5582
genus.Oscillibacter.id.2063	rs35650602	C	A	-0.068	0.015	7.92E-06	8930
genus.Coproccoccus3.id.11303	rs58719470	A	G	-0.063	0.014	7.92E-06	15378

genus.Butyrivibrio.id.1993	rs1007475	T	G	0.118	0.026	7.92E-06	3482
genus.RuminococcaceaeUCG014.id.11371	rs6430495	T	A	0.055	0.012	7.92E-06	14403
genus.Veillonella.id.2198	rs34395919	G	T	0.074	0.017	7.92E-06	8411
genus.RuminococcaceaeUCG002.id.11360	rs73561250	C	T	-0.076	0.017	7.92E-06	16373
genus.Coprobacter.id.949	rs11073942	C	T	0.098	0.022	7.92E-06	6790
genus.Clostridiuminnocuumgroup.id.14397	rs7235290	G	A	0.147	0.033	7.92E-06	4163
genus.Holdemania.id.2157	rs9542258	C	T	0.075	0.016	7.92E-06	8907
genus.Ruminiclostridium9.id.11357	rs74303178	C	T	0.053	0.012	7.92E-06	16706
genus.RuminococcaceaeUCG004.id.11362	rs1003084	G	T	0.108	0.024	7.91E-06	9116
genus.Clostridiuminnocuumgroup.id.14397	rs66960257	T	C	0.145	0.032	7.91E-06	4166
genus.Turicibacter.id.2162	rs111885820	G	A	0.096	0.022	7.91E-06	8927
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs758995	G	A	0.076	0.017	7.91E-06	16245
genus.Tyzzzerella3.id.11335	rs1232220	T	G	-0.144	0.032	7.91E-06	5000
genus.Parasutterella.id.2892	rs737483	A	G	0.060	0.013	7.91E-06	11384
genus.Ruminiclostridium9.id.11357	rs7622451	C	T	-0.051	0.011	7.91E-06	16725
genus.Eubacteriumruminantiumgroup.id.11340	rs4656007	T	C	0.072	0.016	7.90E-06	7739
genus.ErysipelotrichaceaeUCG003.id.11384	rs11666127	G	A	-0.072	0.016	7.90E-06	13813
genus.Ruminococcustorquesgroup.id.14377	rs2640569	C	T	0.073	0.016	7.90E-06	17011
genus.Veillonella.id.2198	rs35309151	T	C	0.086	0.019	7.90E-06	9289
genus.RuminococcaceaeUCG014.id.11371	rs456678	A	C	-0.057	0.013	7.90E-06	14403
genus.RuminococcaceaeUCG014.id.11371	rs62356877	T	C	-0.116	0.026	7.90E-06	12615
genus.Allisonella.id.2174	rs7041222	A	C	0.135	0.030	7.90E-06	3212
genus.RuminococcaceaeUCG004.id.11362	rs80234555	C	T	0.123	0.028	7.89E-06	8801
genus.Ruminococcusgnavusgroup.id.14376	rs10054585	A	C	-0.090	0.020	7.89E-06	6401
genus.Ruminococcusgnavusgroup.id.14376	rs10054604	A	C	-0.090	0.020	7.89E-06	6401
genus.LachnospiraceaeUCG008.id.11328	rs34194030	C	A	0.088	0.020	7.89E-06	7017
genus.Ruminococcustorquesgroup.id.14377	rs2323448	A	T	0.048	0.011	7.89E-06	17796
genus.CandidatusSoleaferrea.id.11350	rs6489992	G	A	-0.084	0.019	7.89E-06	6142
genus.Allisonella.id.2174	rs34954690	A	G	0.134	0.030	7.89E-06	3212
genus.Oscillibacter.id.2063	rs34876895	G	A	-0.068	0.015	7.88E-06	8930
genus.Dialister.id.2183	rs10138457	C	T	-0.113	0.026	7.88E-06	10968

genus.Holdemanella.id.11393	rs12415649	C	G	0.084	0.019	7.88E-06	7662
genus.FamilyXIIIAD3011group.id.11293	rs739451	T	C	0.065	0.015	7.88E-06	14197
genus.FamilyXIIIUCG001.id.11294	rs112362903	G	A	-0.149	0.033	7.88E-06	8579
genus.Prevotella7.id.11182	rs11035469	G	A	-0.144	0.031	7.88E-06	3488
genus.Ruminiclostridium6.id.11356	rs11035745	G	T	0.069	0.015	7.87E-06	13381
genus..Ruminococcustorquesgroup.id.14377	rs2229046	T	C	0.090	0.020	7.87E-06	17011
genus.FamilyXIIIUCG001.id.11294	rs17192279	G	A	-0.060	0.013	7.87E-06	12749
genus..Eubacteriumruminantiumgroup.id.11340	rs2817174	T	C	-0.073	0.016	7.87E-06	7710
genus..Ruminococcusgavreuiiigroup.id.11342	rs289417	A	G	-0.063	0.014	7.87E-06	13380
genus.Coprococcus1.id.11301	rs1590791	T	C	-0.049	0.011	7.87E-06	16732
genus.Butyriivibrio.id.1993	rs28846706	G	A	0.176	0.039	7.87E-06	3481
genus.RuminococcaceaeUCG005.id.11363	rs56163386	C	T	-0.066	0.015	7.86E-06	16091
genus.RuminococcaceaeUCG002.id.11360	rs6542556	G	A	0.051	0.011	7.86E-06	17094
genus.Ruminococcus1.id.11373	rs10169634	C	T	0.050	0.011	7.86E-06	16585
genus..Eubacteriumhalliigroup.id.11338	rs117748144	C	T	-0.127	0.029	7.86E-06	10861
genus.Bilophila.id.3170	rs1676510	G	A	-0.071	0.016	7.86E-06	12856
genus.Turicibacter.id.2162	rs41467648	C	A	0.096	0.022	7.86E-06	8927
genus.Roseburia.id.2012	rs9554877	C	T	-0.058	0.013	7.86E-06	17848
genus.Ruminiclostridium5.id.11355	rs2482032	G	A	0.050	0.011	7.86E-06	17394
genus.Prevotella7.id.11182	rs118038478	G	A	0.206	0.047	7.85E-06	3295
genus.Intestinibacter.id.11345	rs893394	A	G	0.058	0.013	7.85E-06	11886
genus.Bifidobacterium.id.436	rs4988145	A	C	0.072	0.016	7.85E-06	14777
genus.Streptococcus.id.1853	rs2952176	A	G	-0.056	0.013	7.85E-06	16382
genus.LachnospiraceaeUCG004.id.11324	rs59151896	T	A	0.054	0.012	7.85E-06	14446
genus.LachnospiraceaeUCG010.id.11330	rs17730011	A	G	-0.070	0.016	7.85E-06	13226
genus.Intestinibacter.id.11345	rs10811562	T	C	-0.101	0.023	7.84E-06	12303
genus.Intestinimonas.id.2062	rs2276760	G	A	-0.069	0.015	7.84E-06	12081
genus.Sellimonas.id.14369	rs10226023	G	A	-0.120	0.027	7.84E-06	3154
genus.LachnospiraceaeNC2004group.id.11316	rs12138162	G	A	0.111	0.025	7.84E-06	6226
genus.Coprococcus3.id.11303	rs6994742	T	C	0.055	0.012	7.84E-06	15834
genus.Lactobacillus.id.1837	rs9986520	T	C	0.133	0.030	7.84E-06	6883

genus..Eubacteriumventriosumgroup.id.11341	rs9316536	G	T	-0.082	0.018	7.84E-06	15289
genus.Turicibacter.id.2162	rs2834975	A	T	-0.084	0.019	7.84E-06	8949
genus.LachnospiraceaeUCG008.id.11328	rs10793102	G	T	0.096	0.021	7.83E-06	7016
genus.CandidatusSoleaferrea.id.11350	rs11071652	G	C	-0.096	0.021	7.83E-06	6144
genus..Eubacteriumnodatumgroup.id.11297	rs6818880	G	A	-0.110	0.025	7.83E-06	3291
genus.Anaerostipes.id.1991	rs11197321	T	C	-0.049	0.011	7.82E-06	16925
genus.Parasutterella.id.2892	rs1357416	G	A	-0.072	0.016	7.82E-06	11386
genus.RuminococcaceaeUCG010.id.11367	rs2773827	G	A	-0.056	0.012	7.82E-06	12859
genus.ErysipelotrichaceaeUCG003.id.11384	rs60664481	C	T	0.120	0.027	7.82E-06	12542
genus.Lachnoclostridium.id.11308	rs2016886	C	T	-0.051	0.011	7.82E-06	17922
genus.Erysipelatoclostridium.id.11381	rs401869	C	A	0.076	0.017	7.82E-06	9489
genus.RuminococcaceaeUCG010.id.11367	rs3088274	C	T	0.061	0.014	7.82E-06	12856
genus.RuminococcaceaeUCG014.id.11371	rs16845608	A	G	-0.093	0.021	7.82E-06	14403
genus..Eubacteriumbrachygroup.id.11296	rs55737168	A	T	-0.162	0.036	7.82E-06	3988
genus.Escherichia.Shigella.id.3504	rs62043827	C	T	0.101	0.022	7.81E-06	11999
genus.Veillonella.id.2198	rs1815011	G	A	0.086	0.019	7.81E-06	9290
genus.Ruminococcus1.id.11373	rs7570714	C	T	0.050	0.011	7.81E-06	16587
genus.Enterorhabdus.id.820	rs7765821	G	A	-0.074	0.017	7.81E-06	7524
genus.Oxalobacter.id.2978	rs1977135	A	G	-0.104	0.023	7.80E-06	4631
genus..Eubacteriumbrachygroup.id.11296	rs78928087	C	A	-0.162	0.036	7.80E-06	4001
genus.Anaerostipes.id.1991	rs11197345	A	C	-0.050	0.011	7.80E-06	16925
genus.Sutterella.id.2896	rs7988877	T	A	-0.057	0.013	7.80E-06	12843
genus.Marvinbryantia.id.2005	rs11620597	C	T	0.119	0.027	7.80E-06	11031
genus..Clostridiuminnocuumgroup.id.14397	rs71564433	A	T	-0.127	0.027	7.80E-06	4164
genus.RuminococcaceaeUCG002.id.11360	rs362417	C	G	-0.055	0.012	7.80E-06	17097
genus.Akkermansia.id.4037	rs12411321	T	C	0.073	0.017	7.80E-06	11864
genus.Ruminococcus2.id.11374	rs7032486	C	T	0.070	0.016	7.80E-06	15339
genus.Oscillibacter.id.2063	rs73205327	C	A	-0.081	0.018	7.80E-06	8528
genus.Eisenbergiella.id.11304	rs4523231	C	T	0.114	0.025	7.80E-06	5583
genus.LachnospiraceaeFCS020group.id.11314	rs1542072	A	G	0.055	0.012	7.80E-06	13772
genus.Sutterella.id.2896	rs27172	C	T	-0.057	0.013	7.80E-06	13247

genus.Ruminiclostridium5.id.11355	rs4750263	A	T	0.049	0.011	7.79E-06	17396
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs57593136	C	T	0.079	0.018	7.79E-06	16245
genus.Oxalobacter.id.2978	rs73733941	C	T	-0.133	0.030	7.79E-06	4492
genus.Senegalimassilia.id.11160	rs7584117	G	T	0.077	0.017	7.79E-06	6923
genus.Turicibacter.id.2162	rs1040364	C	T	-0.084	0.019	7.79E-06	8949
genus.Ruminiclostridium5.id.11355	rs2493767	G	A	0.050	0.011	7.78E-06	17397
genus.Allisonella.id.2174	rs12554887	C	G	0.142	0.032	7.78E-06	3212
genus.Ruminococcusgnavusgroup.id.14376	rs12652689	G	A	-0.105	0.023	7.78E-06	6327
genus.RuminococcaceaeUCG003.id.11361	rs454715	G	T	0.055	0.012	7.78E-06	14323
genus.Marvinbryantia.id.2005	rs12289963	G	C	0.103	0.023	7.78E-06	11613
genus.Fusicatenibacter.id.11305	rs56037552	T	C	-0.054	0.012	7.78E-06	17376
genus.Desulfovibrio.id.3173	rs1294544	C	A	0.069	0.015	7.78E-06	9241
genus.LachnospiraceaeNK4A136group.id.11319	rs36112081	A	G	-0.052	0.012	7.78E-06	17236
genus.Eubacteriumruminantiumgroup.id.11340	rs61920452	G	A	0.106	0.023	7.77E-06	7707
genus.Romboutsia.id.11347	rs7120903	T	G	-0.070	0.016	7.77E-06	14188
genus.RikenellaceaeRC9gutgroup.id.11191	rs4754048	G	T	0.112	0.025	7.77E-06	3334
genus.Holdemania.id.2157	rs73139538	A	G	-0.149	0.033	7.77E-06	8095
genus.Roseburia.id.2012	rs10508087	G	C	-0.058	0.013	7.77E-06	17854
genus.Paraprevotella.id.962	rs3008585	T	C	0.102	0.022	7.77E-06	7179
genus.Subdoligranulum.id.2070	rs4695415	G	A	-0.051	0.012	7.77E-06	17591
genus.LachnospiraceaeUCG001.id.11321	rs9390194	G	A	0.106	0.024	7.76E-06	10097
genus.Ruminococcustorquesgroup.id.14377	rs8106205	C	T	-0.047	0.011	7.76E-06	17798
genus.Eubacteriumruminantiumgroup.id.11340	rs7857522	C	T	0.081	0.018	7.76E-06	7265
genus.Lachnospira.id.2004	rs10834854	G	C	-0.059	0.013	7.76E-06	16490
genus.Akkermansia.id.4037	rs4600885	A	C	0.063	0.014	7.76E-06	11863
genus.Lachnoclostridium.id.11308	rs6982486	A	G	-0.051	0.011	7.76E-06	17922
genus.Gordonibacter.id.821	rs768830	A	G	0.150	0.033	7.76E-06	3723
genus.Clostridiumsensustricto1.id.1873	rs11264403	A	G	-0.139	0.033	7.76E-06	7285
genus.Ruminococcusgnavusgroup.id.14376	rs6895524	G	A	-0.082	0.018	7.76E-06	6401
genus.CandidatusSoleaferrea.id.11350	rs12198088	C	T	-0.121	0.028	7.75E-06	6145
genus.Olsenella.id.822	rs12649679	G	A	-0.104	0.023	7.75E-06	3739

genus.Oxalobacter.id.2978	rs6101123	T	C	-0.096	0.021	7.75E-06	4634
genus.Eisenbergiella.id.11304	rs13258851	G	A	0.137	0.030	7.75E-06	5583
genus.RuminococcaceaeUCG011.id.11368	rs4490371	C	T	-0.112	0.025	7.75E-06	3610
genus.Adlercreutzia.id.812	rs306577	T	C	-0.105	0.023	7.75E-06	8243
genus.FamilyXIIIAD3011group.id.11293	rs12311123	T	C	-0.087	0.019	7.74E-06	13635
genus.Eubacteriumeligensgroup.id.14372	rs4888188	G	T	-0.053	0.012	7.74E-06	14771
genus.Bilophila.id.3170	rs59441360	A	C	0.074	0.017	7.74E-06	12777
genus.Streptococcus.id.1853	rs10860565	G	A	-0.078	0.017	7.74E-06	15743
genus.Lachnoclostridium.id.11308	rs6045950	A	G	-0.049	0.011	7.74E-06	17823
genus.Ruminococcus1.id.11373	rs7115106	A	G	-0.050	0.011	7.74E-06	16596
genus.Ruminococcustorquesgroup.id.14377	rs12434634	G	A	0.071	0.015	7.73E-06	17353
genus.RuminococcaceaeUCG014.id.11371	rs6754184	A	G	0.057	0.013	7.73E-06	14403
genus.Intestinibacter.id.11345	rs72703450	C	A	-0.101	0.024	7.73E-06	12303
genus.RuminococcaceaeNK4A214group.id.11358	rs10178772	T	G	0.071	0.016	7.72E-06	15268
genus.Anaerostipes.id.1991	rs13376554	T	A	0.197	0.046	7.72E-06	3101
genus.Holdemanella.id.11393	rs17586763	C	T	-0.227	0.051	7.72E-06	3817
genus.Ruminococcusgavreuiiigroup.id.11342	rs11740807	A	T	0.071	0.016	7.72E-06	12838
genus.FamilyXIIIUCG001.id.11294	rs3798434	C	T	-0.060	0.013	7.72E-06	12749
genus.Parasutterella.id.2892	rs11058438	G	T	-0.072	0.016	7.72E-06	11385
genus.Bilophila.id.3170	rs11069458	C	T	-0.068	0.016	7.72E-06	12856
genus.Subdoligranulum.id.2070	rs2572343	T	C	-0.051	0.012	7.71E-06	17590
genus.Parasutterella.id.2892	rs35884570	T	C	0.105	0.023	7.71E-06	9970
genus.Alistipes.id.968	rs10950056	G	C	-0.049	0.011	7.71E-06	17570
genus.Coprococcus3.id.11303	rs34731438	G	T	-0.063	0.014	7.71E-06	15829
genus.Anaerostipes.id.1991	rs1590734	G	C	-0.049	0.011	7.71E-06	16925
genus.Turicibacter.id.2162	rs117207382	G	A	0.099	0.022	7.71E-06	8927
genus.Coprococcus2.id.11302	rs67539765	G	A	0.069	0.016	7.71E-06	11485
genus.Paraprevotella.id.962	rs17178062	A	G	-0.079	0.017	7.71E-06	7178
genus.Intestinibacter.id.11345	rs1608222	A	G	-0.132	0.029	7.70E-06	10812
genus.LachnospiraceaeFCS020group.id.11314	rs12221149	T	G	-0.055	0.012	7.70E-06	13771
genus.Eubacteriumnodatumgroup.id.11297	rs11256282	A	G	0.155	0.034	7.70E-06	3295

genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs1377730	C	T	-0.048	0.011	7.70E-06	17365
genus..Eubacteriumruminantiumgroup.id.11340	rs139748	A	G	-0.089	0.020	7.70E-06	7314
genus..Eubacteriumbrachygroup.id.11296	rs833380	C	T	-0.113	0.025	7.70E-06	4000
genus.Butyricimonas.id.945	rs67694451	G	A	-0.086	0.020	7.70E-06	10659
genus.Subdoligranulum.id.2070	rs4695414	G	A	-0.051	0.012	7.70E-06	17591
genus.Slackia.id.825	rs10409783	G	A	0.095	0.021	7.70E-06	5941
genus.Tyzzarella3.id.11335	rs73291122	G	C	-0.214	0.048	7.69E-06	3857
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2939752	G	A	0.088	0.020	7.69E-06	5378
genus.Subdoligranulum.id.2070	rs17122499	T	C	-0.050	0.011	7.69E-06	17591
genus.RuminococcaceaeUCG002.id.11360	rs113147300	G	A	-0.076	0.016	7.69E-06	16370
genus.Fusicatenibacter.id.11305	rs10439674	G	A	-0.057	0.013	7.68E-06	17381
genus.Parasutterella.id.2892	rs7956291	C	T	-0.073	0.016	7.68E-06	10976
genus.RuminococcaceaeUCG009.id.11366	rs7960210	G	T	0.078	0.017	7.68E-06	7511
genus.Prevotella7.id.11182	rs55795557	G	A	0.163	0.037	7.68E-06	3283
genus.Dorea.id.1997	rs3752849	A	G	0.164	0.037	7.68E-06	5322
genus.Butyricimonas.id.945	rs1701950	C	G	-0.105	0.024	7.68E-06	9875
genus.Ruminiclostridium5.id.11355	rs2996011	C	T	0.052	0.012	7.68E-06	17383
genus.Streptococcus.id.1853	rs11006995	C	T	0.096	0.021	7.68E-06	15294
genus.Lactococcus.id.1851	rs8109234	T	C	0.110	0.025	7.68E-06	4057
genus.CandidatusSoleaferrea.id.11350	rs12500231	T	A	0.081	0.018	7.68E-06	6145
genus.RikenellaceaeRC9gutgroup.id.11191	rs6912851	A	G	0.171	0.038	7.68E-06	3184
genus.FamilyXIIIAD3011group.id.11293	rs71461085	T	G	-0.087	0.019	7.67E-06	13636
genus.Roseburia.id.2012	rs2972974	C	G	0.048	0.011	7.67E-06	17854
genus.CandidatusSoleaferrea.id.11350	rs13269653	A	G	-0.090	0.020	7.67E-06	5999
genus.Parasutterella.id.2892	rs4948778	T	C	-0.064	0.014	7.67E-06	11385
genus.Eggerthella.id.819	rs2459480	G	T	0.089	0.020	7.66E-06	5147
genus.Adlercreutzia.id.812	rs4692824	G	A	-0.076	0.017	7.66E-06	8243
genus.Erysipelatoclostridium.id.11381	rs45480394	G	T	-0.069	0.015	7.66E-06	9604
genus.Anaerotruncus.id.2054	rs9355485	C	G	0.049	0.011	7.65E-06	16564
genus.Coprococcus1.id.11301	rs2907920	G	A	0.056	0.013	7.65E-06	16040
genus.Victivallis.id.2256	rs173120	C	T	0.134	0.029	7.65E-06	3263

genus.Victivallis.id.2256	rs911666	C	T	-0.119	0.026	7.65E-06	3267
genus.Bifidobacterium.id.436	rs2686789	C	A	0.071	0.016	7.65E-06	14778
genus.Bacteroides.id.918	rs2366421	A	T	-0.053	0.012	7.65E-06	18299
genus.Coprococcus2.id.11302	rs10070053	G	A	0.059	0.014	7.65E-06	11473
genus.Oscillibacter.id.2063	rs11996437	C	T	-0.081	0.018	7.65E-06	8520
genus.Allisonella.id.2174	rs35623544	C	G	0.135	0.030	7.65E-06	3212
genus.Alistipes.id.968	rs35909684	C	A	-0.085	0.019	7.65E-06	17457
genus.Subdoligranulum.id.2070	rs16962433	T	A	0.086	0.019	7.65E-06	15857
genus.Oscillibacter.id.2063	rs1837782	C	A	0.074	0.017	7.64E-06	8927
genus.Veillonella.id.2198	rs12815816	A	T	0.074	0.017	7.64E-06	8411
genus.Anaerostipes.id.1991	rs11197341	G	A	-0.049	0.011	7.64E-06	16925
genus.RuminococcaceaeUCG014.id.11371	rs461159	C	T	-0.057	0.013	7.64E-06	14403
genus.Holdemanella.id.11393	rs777392	A	T	0.089	0.020	7.64E-06	7698
genus.Faecalibacterium.id.2057	rs2175572	G	A	0.049	0.011	7.63E-06	18087
genus.LachnospiraceaeUCG010.id.11330	rs4576377	C	A	-0.057	0.013	7.63E-06	13225
genus.Intestinibacter.id.11345	rs12379721	T	C	-0.099	0.023	7.63E-06	12303
genus.Bilophila.id.3170	rs11081071	T	C	0.075	0.017	7.63E-06	12777
genus.Lachnoclostridium.id.11308	rs1993453	G	A	-0.051	0.011	7.62E-06	17922
genus.Lachnoclostridium.id.11308	rs10957054	T	C	-0.051	0.011	7.62E-06	17922
genus.Eggerthella.id.819	rs13070736	C	A	-0.121	0.027	7.62E-06	5147
genus.Anaerostipes.id.1991	rs2769412	A	G	-0.049	0.011	7.61E-06	16926
genus.Roseburia.id.2012	rs1897835	C	T	0.048	0.011	7.61E-06	17851
genus.Methanobrevibacter.id.123	rs1334944	C	T	0.115	0.026	7.61E-06	3586
genus.Eubacteriumruminantiumgroup.id.11340	rs9627308	G	C	0.141	0.029	7.61E-06	7118
genus.Collinsella.id.815	rs7102347	A	C	-0.053	0.012	7.61E-06	14334
genus.Eubacteriumbrachygroup.id.11296	rs833386	A	G	-0.113	0.025	7.61E-06	4000
genus.Eubacteriumhalliigroup.id.11338	rs79860578	T	C	0.150	0.035	7.61E-06	7709
genus.Anaerofilum.id.2053	rs1767111	C	A	-0.177	0.040	7.61E-06	4877
genus.Senegalimassilia.id.11160	rs10199944	C	A	0.077	0.017	7.60E-06	6923
genus.RuminococcaceaeUCG011.id.11368	rs6784050	C	T	0.131	0.029	7.60E-06	3632
genus.LachnospiraceaeFCS020group.id.11314	rs10030408	G	A	0.055	0.012	7.60E-06	13767

genus.Anaerofilum.id.2053	rs12466058	T	C	0.091	0.020	7.60E-06	5051
genus.Eubacteriumruminantiumgroup.id.11340	rs10931918	G	A	-0.073	0.016	7.60E-06	7738
genus.Fusicatenibacter.id.11305	rs7476505	C	A	-0.088	0.020	7.60E-06	15627
genus.Streptococcus.id.1853	rs3842931	C	T	0.096	0.021	7.59E-06	15294
genus.RuminococcaceaeUCG003.id.11361	rs78720113	G	A	-0.115	0.025	7.59E-06	13078
genus.Ruminococcus1.id.11373	rs10769165	T	C	-0.050	0.011	7.59E-06	16607
genus.Ruminococcus2.id.11374	rs2846589	T	G	0.052	0.012	7.59E-06	14924
genus.unknowngenus.id.2755	rs11591293	T	G	0.071	0.016	7.58E-06	8456
genus.Ruminiclostridium5.id.11355	rs12813694	C	T	0.051	0.012	7.58E-06	17016
genus.Ruminiclostridium9.id.11357	rs78191726	C	T	0.094	0.021	7.58E-06	16039
genus.RuminococcaceaeUCG003.id.11361	rs12979891	C	T	0.054	0.012	7.58E-06	14319
genus.Oxalobacter.id.2978	rs6093023	C	T	-0.096	0.021	7.58E-06	4634
genus.ChristensenellaceaeR.7group.id.11283	rs17141346	C	T	0.110	0.025	7.58E-06	12719
genus.Sellimonas.id.14369	rs2554345	G	A	0.113	0.025	7.58E-06	3154
genus.Lachnoclostridium.id.11308	rs11996829	G	T	-0.051	0.011	7.58E-06	17922
genus.Akkermansia.id.4037	rs7538356	A	C	0.064	0.014	7.58E-06	11863
genus.Clostridiuminnocuumgroup.id.14397	rs75448022	G	A	0.149	0.033	7.57E-06	4164
genus.Ruminococcus2.id.11374	rs6537939	C	T	0.070	0.016	7.57E-06	15339
genus.Anaerostipes.id.1991	rs11492805	A	G	-0.050	0.011	7.57E-06	16925
genus.Erysipelatoclostridium.id.11381	rs72671257	C	A	0.085	0.019	7.57E-06	9430
genus.Coprococcus1.id.11301	rs1932315	A	G	-0.049	0.011	7.57E-06	16732
genus.Bifidobacterium.id.436	rs112084119	C	T	0.071	0.016	7.57E-06	14777
genus.Anaerofilum.id.2053	rs56342910	G	T	0.112	0.025	7.56E-06	5051
genus.Streptococcus.id.1853	rs55950941	T	C	-0.061	0.013	7.56E-06	16368
genus.LachnospiraceaeUCG001.id.11321	rs2371284	C	T	-0.076	0.017	7.56E-06	9961
genus.Anaerostipes.id.1991	rs1590733	T	C	-0.049	0.011	7.56E-06	16925
genus.Peptococcus.id.2037	rs401957	T	G	-0.089	0.020	7.56E-06	5656
genus.CandidatusSoleaferrea.id.11350	rs79465564	C	T	-0.121	0.028	7.56E-06	6104
genus.Ruminiclostridium5.id.11355	rs928338	C	T	0.050	0.011	7.56E-06	17397
genus.Ruminiclostridium6.id.11356	rs7986731	G	C	-0.061	0.014	7.55E-06	13375
genus.Veillonella.id.2198	rs35949599	G	A	0.087	0.019	7.55E-06	9290

genus.Enterorhabdus.id.820	rs10101882	A	G	0.129	0.029	7.55E-06	7361
genus.Anaerotruncus.id.2054	rs7155595	A	C	0.054	0.012	7.55E-06	16553
genus.Paraprevotella.id.962	rs72810878	A	G	-0.121	0.027	7.55E-06	7137
genus.Subdoligranulum.id.2070	rs2605243	A	G	-0.051	0.012	7.55E-06	17587
genus.Akkermansia.id.4037	rs72663751	G	A	0.065	0.015	7.55E-06	11859
genus.Ruminiclostridium5.id.11355	rs7974422	G	A	0.048	0.011	7.54E-06	17395
genus.Faecalibacterium.id.2057	rs2835874	C	T	-0.087	0.020	7.54E-06	17567
genus.LachnospiraceaeFCS020group.id.11314	rs9829194	T	G	0.058	0.013	7.54E-06	13772
genus.Allisonella.id.2174	rs10981784	C	T	0.135	0.030	7.54E-06	3212
genus.Sellimonas.id.14369	rs2006772	A	G	0.113	0.025	7.54E-06	3154
genus.Oscillibacter.id.2063	rs7101988	T	A	0.077	0.017	7.54E-06	8928
genus.Subdoligranulum.id.2070	rs13124375	G	T	-0.052	0.012	7.54E-06	17590
genus.RuminococcaceaeUCG005.id.11363	rs4545506	C	T	-0.068	0.015	7.54E-06	16099
genus.Anaerofilum.id.2053	rs12030055	T	C	0.094	0.021	7.53E-06	4935
genus.Lactobacillus.id.1837	rs1978760	T	C	-0.077	0.017	7.53E-06	6958
genus.Parasutterella.id.2892	rs7910172	T	C	-0.064	0.014	7.53E-06	11385
genus.Eubacteriumhalliigroup.id.11338	rs13073982	T	C	-0.052	0.012	7.52E-06	16568
genus.Anaerostipes.id.1991	rs11197357	C	A	-0.050	0.011	7.52E-06	16920
genus.Parasutterella.id.2892	rs10899916	C	T	-0.061	0.014	7.52E-06	11386
genus.Subdoligranulum.id.2070	rs75158211	C	T	-0.072	0.016	7.52E-06	17165
genus.Ruminococcustorquesgroup.id.14377	rs158487	G	A	0.053	0.012	7.52E-06	17798
genus.Prevotella7.id.11182	rs79263163	C	A	-0.144	0.032	7.51E-06	3489
genus.Roseburia.id.2012	rs11169462	T	C	0.049	0.011	7.51E-06	17851
genus.Alistipes.id.968	rs62576416	C	T	0.049	0.011	7.50E-06	17564
genus.Lactococcus.id.1851	rs12619377	T	G	0.108	0.024	7.50E-06	4058
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs62024432	T	C	-0.077	0.017	7.50E-06	17271
genus.Roseburia.id.2012	rs75326254	T	C	-0.105	0.023	7.50E-06	15893
genus.Anaerostipes.id.1991	rs11197322	C	T	-0.049	0.011	7.50E-06	16925
genus.Holdemanella.id.11393	rs1926302	A	G	-0.108	0.023	7.50E-06	7702
genus.LachnospiraceaeFCS020group.id.11314	rs7813903	A	C	-0.055	0.012	7.50E-06	13772
genus.Lactococcus.id.1851	rs4806172	T	C	0.110	0.025	7.50E-06	4057

genus.Coprococcus3.id.11303	rs13390956	A	G	-0.070	0.015	7.50E-06	15830
genus.Intestinibacter.id.11345	rs72703447	A	T	-0.101	0.024	7.50E-06	12303
genus.Oxalobacter.id.2978	rs6071432	T	C	-0.096	0.021	7.50E-06	4634
genus.Bifidobacterium.id.436	rs2686790	C	T	0.071	0.016	7.50E-06	14778
genus.Alistipes.id.968	rs4810359	G	A	-0.065	0.015	7.50E-06	17380
genus.Clostridiumsensustricto1.id.1873	rs12490337	G	C	-0.062	0.014	7.49E-06	14121
genus.Subdoligranulum.id.2070	rs8015389	G	T	-0.050	0.011	7.49E-06	17589
genus.Oscillibacter.id.2063	rs6926221	A	G	-0.068	0.015	7.49E-06	8929
genus.Faecalibacterium.id.2057	rs11638158	C	G	0.049	0.011	7.49E-06	18087
genus.Subdoligranulum.id.2070	rs17638405	C	G	-0.060	0.013	7.49E-06	17576
genus.Bacteroides.id.918	rs13207588	G	A	-0.059	0.013	7.49E-06	17707
genus.LachnospiraceaeUCG010.id.11330	rs336138	T	G	0.078	0.017	7.48E-06	13236
genus.RuminococcaceaeUCG002.id.11360	rs12405445	C	T	-0.065	0.015	7.48E-06	17097
genus.FamilyXIIIAD3011group.id.11293	rs149302	C	T	-0.065	0.014	7.48E-06	14192
genus..Ruminococcusgavreuiiigroup.id.11342	rs73802842	A	C	0.074	0.017	7.48E-06	13382
genus.Streptococcus.id.1853	rs991041	T	A	-0.050	0.011	7.48E-06	16385
genus.Anaerofilum.id.2053	rs12030877	T	C	0.094	0.021	7.47E-06	4935
genus.Phascolarctobacterium.id.2168	rs1264471	G	T	0.074	0.016	7.47E-06	11114
genus.Escherichia.Shigella.id.3504	rs4731451	A	G	-0.061	0.014	7.47E-06	12001
genus.LachnospiraceaeFCS020group.id.11314	rs9308097	G	A	0.055	0.012	7.47E-06	13542
genus.Akkermansia.id.4037	rs4107636	G	C	0.063	0.014	7.47E-06	11863
genus.Intestinibacter.id.11345	rs488340	C	T	-0.132	0.029	7.46E-06	10812
genus.RuminococcaceaeUCG005.id.11363	rs898577	C	T	-0.123	0.029	7.46E-06	9991
genus.Ruminococcus2.id.11374	rs6537941	C	A	0.070	0.016	7.46E-06	15339
genus.Gordonibacter.id.821	rs72714790	T	C	0.169	0.038	7.46E-06	3723
genus.Blautia.id.1992	rs683119	G	T	-0.058	0.013	7.46E-06	18276
genus.LachnospiraceaeNK4A136group.id.11319	rs35683282	A	T	-0.053	0.012	7.46E-06	17236
genus.Allisonella.id.2174	rs1564050	A	G	0.135	0.030	7.45E-06	3212
genus.Victivallis.id.2256	rs2104209	G	T	-0.111	0.025	7.45E-06	3267
genus.RuminococcaceaeUCG002.id.11360	rs10964441	A	G	-0.149	0.034	7.45E-06	5346
genus.Intestinimonas.id.2062	rs2099538	A	G	-0.164	0.038	7.45E-06	3527

genus.Ruminococcus2.id.11374	rs3823652	T	A	0.054	0.012	7.45E-06	15334
genus.Parasutterella.id.2892	rs6551865	G	A	0.060	0.013	7.45E-06	11385
genus.Copro bacter.id.949	rs7679813	C	A	-0.183	0.040	7.45E-06	5383
genus.Lactococcus.id.1851	rs6508728	G	A	0.110	0.025	7.45E-06	4057
genus.Anaerostipes.id.1991	rs34596478	A	G	-0.049	0.011	7.44E-06	16925
genus.FamilyXIIIAD3011group.id.11293	rs1848458	G	A	0.069	0.015	7.44E-06	14195
genus.Streptococcus.id.1853	rs11110057	G	A	-0.084	0.019	7.44E-06	15631
genus.Eubacteriumxylanophilumgroup.id.14375	rs1181573	A	G	0.065	0.015	7.44E-06	13309
genus.Copro bacter.id.949	rs5011651	A	G	0.089	0.020	7.43E-06	6783
genus.Eubacteriumruminantiumgroup.id.11340	rs6991627	A	C	0.073	0.016	7.43E-06	7739
genus.Anaerotruncus.id.2054	rs17734739	C	T	0.066	0.015	7.43E-06	15927
genus.Holdemanella.id.11393	rs11735091	C	T	0.086	0.019	7.43E-06	7704
genus.Ruminococcus1.id.11373	rs4756009	G	C	-0.052	0.012	7.43E-06	16603
genus.RuminococcaceaeUCG014.id.11371	rs77627087	G	C	0.068	0.015	7.43E-06	14390
genus.Butyrvibrio.id.1993	rs1989574	C	T	-0.108	0.024	7.42E-06	3482
genus.Slackia.id.825	rs13339230	G	C	0.147	0.033	7.42E-06	6063
genus.Eubacteriumxylanophilumgroup.id.14375	rs699510	T	C	0.065	0.015	7.42E-06	13308
genus.Lachnospira.id.2004	rs2520509	G	A	0.052	0.012	7.42E-06	16500
genus.RuminococcaceaeUCG004.id.11362	rs9378319	T	C	-0.078	0.017	7.42E-06	9502
genus.Intestinimonas.id.2062	rs4113676	C	A	-0.219	0.049	7.42E-06	3170
genus.Subdoligranulum.id.2070	rs76528319	T	G	-0.143	0.031	7.41E-06	8468
genus.LachnospiraceaeUCG001.id.11321	rs9390193	A	G	0.104	0.023	7.41E-06	10097
genus.Streptococcus.id.1853	rs2197262	T	A	-0.050	0.011	7.41E-06	16386
genus.Eubacteriumfissicatenagroup.id.14373	rs6570197	C	T	0.163	0.036	7.41E-06	3598
genus.Sellimonas.id.14369	rs2554334	T	C	0.113	0.025	7.40E-06	3154
genus.Ruminococcusgavreaiiigroup.id.11342	rs11750752	T	C	0.071	0.016	7.40E-06	12837
genus.Anaerostipes.id.1991	rs10885753	T	G	-0.049	0.011	7.40E-06	16925
genus.Veillonella.id.2198	rs7359080	A	C	-0.135	0.030	7.40E-06	6189
genus.LachnospiraceaeUCG001.id.11321	rs12131224	T	C	0.117	0.026	7.40E-06	9676
genus.Lactococcus.id.1851	rs10190578	C	G	-0.139	0.032	7.40E-06	4058
genus.Anaerofilum.id.2053	rs17507421	A	G	0.091	0.020	7.40E-06	5051

genus.Hungatella.id.11306	rs35931379	G	A	-0.153	0.034	7.40E-06	3946
genus.LachnospiraceaeNC2004group.id.11316	rs6673202	G	T	0.111	0.025	7.40E-06	6226
genus.Eggerthella.id.819	rs1784436	A	T	0.090	0.020	7.39E-06	5147
genus.Eggerthella.id.819	rs2509015	G	A	0.089	0.020	7.39E-06	5147
genus.Prevotella9.id.11183	rs12648235	C	T	0.079	0.018	7.39E-06	10271
genus.Butyrvibrio.id.1993	rs1970324	A	G	0.115	0.026	7.39E-06	3472
genus.Alistipes.id.968	rs1822113	G	T	-0.049	0.011	7.39E-06	17570
genus.Peptococcus.id.2037	rs6573149	A	G	0.106	0.024	7.39E-06	5483
genus.Butyricoccus.id.2055	rs4962426	T	G	0.061	0.014	7.38E-06	16889
genus.Alistipes.id.968	rs8132424	A	T	-0.048	0.011	7.38E-06	17571
genus.Ruminiclostridium6.id.11356	rs56212330	G	A	0.059	0.013	7.38E-06	13378
genus.RuminococcaceaeUCG002.id.11360	rs3848208	A	G	-0.057	0.013	7.38E-06	17097
genus.Hungatella.id.11306	rs17092615	A	G	0.152	0.034	7.38E-06	4009
genus.Turicibacter.id.2162	rs11666533	T	C	-0.112	0.025	7.37E-06	8256
genus.Dialister.id.2183	rs10938938	A	G	-0.077	0.017	7.37E-06	11401
genus.RuminococcaceaeUCG005.id.11363	rs55793120	C	T	0.122	0.028	7.37E-06	11224
genus.Romboutsia.id.11347	rs77702691	G	A	-0.094	0.021	7.37E-06	12487
genus.Bilophila.id.3170	rs1917709	T	A	0.119	0.027	7.37E-06	10886
genus.LachnospiraceaeND3007group.id.11317	rs2861203	A	G	0.057	0.013	7.37E-06	15305
genus.Coprococcus2.id.11302	rs9783625	C	A	-0.065	0.014	7.37E-06	11462
genus.Subdoligranulum.id.2070	rs17122484	C	T	-0.050	0.011	7.37E-06	17589
genus.Lachnoclostridium.id.11308	rs7617141	T	C	-0.078	0.018	7.37E-06	17398
genus.Haemophilus.id.3698	rs10840326	G	C	-0.068	0.015	7.37E-06	8888
genus.Allisonella.id.2174	rs16919671	T	C	0.135	0.030	7.36E-06	3212
genus.Eubacteriumruminantiumgroup.id.11340	rs2348119	T	C	-0.074	0.016	7.36E-06	7738
genus.Eubacteriumxylanophilumgroup.id.14375	rs28420252	A	G	-0.105	0.023	7.36E-06	12930
genus.Anaerotruncus.id.2054	rs1431492	T	C	-0.065	0.015	7.36E-06	16560
genus.Erysipelatoclostridium.id.11381	rs9595383	G	A	0.066	0.015	7.35E-06	9782
genus.Lactococcus.id.1851	rs10404086	A	T	0.110	0.025	7.35E-06	4057
genus.Lactococcus.id.1851	rs10402087	G	C	0.110	0.025	7.35E-06	4057
genus.Eisenbergiella.id.11304	rs11079158	C	T	0.101	0.023	7.35E-06	5582

genus.LachnospiraceaeNC2004group.id.11316	rs34421765	G	A	0.112	0.025	7.35E-06	6225
genus.Marvinbryantia.id.2005	rs9817187	C	T	0.061	0.014	7.35E-06	11948
genus.Alistipes.id.968	rs4718714	A	G	-0.049	0.011	7.35E-06	17568
genus..Eubacteriumbrachygroup.id.11296	rs6591893	A	G	0.108	0.024	7.34E-06	3999
genus.Roseburia.id.2012	rs12740451	C	T	0.070	0.015	7.34E-06	17837
genus.Bifidobacterium.id.436	rs16832417	C	T	0.074	0.016	7.34E-06	14778
genus.ChristensenellaceaeR.7group.id.11283	rs62467070	T	C	0.111	0.025	7.34E-06	12630
genus.RuminococcaceaeUCG014.id.11371	rs17296933	G	C	-0.083	0.019	7.34E-06	13177
genus.RuminococcaceaeUCG004.id.11362	rs9378684	C	T	-0.079	0.018	7.34E-06	9406
genus.Eisenbergiella.id.11304	rs12440724	A	G	0.101	0.022	7.34E-06	5583
genus..Ruminococcusgavreuiiigroup.id.11342	rs17326496	C	T	0.071	0.016	7.34E-06	12838
genus.Desulfovibrio.id.3173	rs746985	C	T	-0.067	0.015	7.33E-06	8949
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs58327496	T	G	-0.063	0.014	7.33E-06	17380
genus.CandidatusSoleaferrea.id.11350	rs12374658	T	C	-0.121	0.028	7.33E-06	6145
genus.Eggerthella.id.819	rs7222311	G	A	0.112	0.026	7.33E-06	4906
genus.Lactobacillus.id.1837	rs77478751	G	A	-0.220	0.048	7.33E-06	3669
genus.Coprococcus3.id.11303	rs13247359	A	G	0.051	0.011	7.33E-06	15833
genus.Akkermansia.id.4037	rs72663785	C	G	0.066	0.015	7.33E-06	11863
genus.Copro bacter.id.949	rs182453737	A	T	0.124	0.028	7.32E-06	6798
genus..Eubacteriumoxidoreducensgroup.id.11339	rs1425962	C	G	0.091	0.020	7.32E-06	5321
genus.RuminococcaceaeUCG013.id.11370	rs10219135	C	T	0.060	0.013	7.32E-06	16772
genus..Ruminococcusgnavusgroup.id.14376	rs329889	C	A	-0.081	0.018	7.32E-06	6397
genus.Anaerotruncus.id.2054	rs7338422	A	G	0.082	0.019	7.32E-06	16566
genus.Anaerostipes.id.1991	rs11197343	G	A	-0.049	0.011	7.31E-06	16925
genus.Anaerostipes.id.1991	rs11197342	C	T	-0.049	0.011	7.31E-06	16925
genus.Barnesiella.id.944	rs113258194	G	A	0.099	0.021	7.31E-06	13945
genus.Fusicatenibacter.id.11305	rs9905659	A	G	-0.062	0.014	7.31E-06	17384
genus.ErysipelotrichaceaeUCG003.id.11384	rs8085780	C	T	-0.094	0.021	7.31E-06	14431
genus.Anaerotruncus.id.2054	rs875082	T	A	0.082	0.019	7.31E-06	16566
genus.LachnospiraceaeUCG008.id.11328	rs7652397	A	C	-0.099	0.022	7.31E-06	7016
genus.Intestinimonas.id.2062	rs994794	C	G	-0.142	0.032	7.31E-06	9250

genus.Streptococcus.id.1853	rs10028567	T	C	-0.092	0.019	7.30E-06	16311
genus.Oxalobacter.id.2978	rs111966731	C	T	0.213	0.047	7.30E-06	3931
genus.Holdemanella.id.11393	rs35228298	A	G	0.093	0.020	7.30E-06	7456
genus.Butyrivibrio.id.1993	rs8068101	T	C	0.114	0.026	7.30E-06	3478
genus.Ruminiclostridium6.id.11356	rs73176030	C	T	0.059	0.013	7.29E-06	13378
genus..Ruminococcusgnavusgroup.id.14376	rs13180887	C	T	-0.090	0.020	7.29E-06	6401
genus.Fusicatenibacter.id.11305	rs6515626	A	G	0.142	0.031	7.29E-06	7796
genus.Olsenella.id.822	rs9460691	A	C	0.120	0.027	7.28E-06	3739
genus.Prevotella9.id.11183	rs7976209	C	T	-0.087	0.020	7.28E-06	10263
genus.Anaerostipes.id.1991	rs10885746	A	C	-0.050	0.011	7.28E-06	16925
genus.Ruminococcus1.id.11373	rs4755332	C	T	-0.052	0.012	7.28E-06	16603
genus..Ruminococcusgavreuiiigroup.id.11342	rs13188803	A	T	0.071	0.016	7.28E-06	12834
genus.Parabacteroides.id.954	rs17141986	C	G	0.050	0.011	7.27E-06	16825
genus.Anaerofilum.id.2053	rs7555643	G	A	0.094	0.021	7.27E-06	4935
genus.RuminococcaceaeUCG004.id.11362	rs114565663	G	A	0.131	0.029	7.27E-06	8801
genus.LachnospiraceaeND3007group.id.11317	rs11647528	T	G	-0.052	0.012	7.27E-06	15218
genus.RuminococcaceaeUCG003.id.11361	rs16908667	G	A	-0.060	0.013	7.27E-06	14412
genus.Roseburia.id.2012	rs2943024	C	G	0.048	0.011	7.27E-06	17854
genus.Marvinbryantia.id.2005	rs2815663	G	C	-0.071	0.016	7.27E-06	11607
genus.Sellimonas.id.14369	rs1133878	G	A	-0.116	0.026	7.26E-06	3154
genus.Lactococcus.id.1851	rs4805130	T	A	0.110	0.025	7.26E-06	4050
genus.Butyrivibrio.id.1993	rs6587085	C	G	0.115	0.026	7.26E-06	3476
genus.Lactococcus.id.1851	rs4806166	T	C	0.111	0.025	7.25E-06	4057
genus.Prevotella9.id.11183	rs2244976	C	T	-0.067	0.015	7.25E-06	10267
genus.Copro bacter.id.949	rs56691857	A	C	-0.183	0.040	7.25E-06	5383
genus.Haemophilus.id.3698	rs77529231	T	C	-0.228	0.050	7.25E-06	3559
genus.ErysipelotrichaceaeUCG003.id.11384	rs2044550	C	T	-0.061	0.014	7.25E-06	14899
genus.Anaerostipes.id.1991	rs72708371	G	A	-0.105	0.024	7.25E-06	14693
genus.LachnospiraceaeNK4A136group.id.11319	rs34315028	C	A	-0.053	0.012	7.25E-06	17236
genus.Lactococcus.id.1851	rs10402279	G	C	0.111	0.025	7.25E-06	4057
genus..Clostridiuminnocuumgroup.id.14397	rs4869133	A	G	-0.181	0.041	7.24E-06	3735

genus.Hungatella.id.11306	rs34284687	G	A	-0.153	0.033	7.24E-06	3950
genus.Akkermansia.id.4037	rs2199602	G	T	0.066	0.015	7.24E-06	11863
genus.RuminococcaceaeUCG014.id.11371	rs461493	C	T	-0.057	0.013	7.24E-06	14403
genus.Anaerofilum.id.2053	rs17012738	G	T	0.090	0.020	7.24E-06	5051
genus.Dorea.id.1997	rs34459983	C	T	-0.065	0.014	7.24E-06	17609
genus.Eubacteriumfissicatenagroup.id.14373	rs7844020	C	G	-0.102	0.023	7.23E-06	3830
genus.Haemophilus.id.3698	rs56310940	C	G	-0.108	0.025	7.23E-06	9119
genus.Parasutterella.id.2892	rs77329569	T	C	0.226	0.050	7.23E-06	3691
genus.Ruminococcustorquesgroup.id.14377	rs11171745	C	A	0.073	0.016	7.23E-06	17011
genus.Holdemania.id.2157	rs4146507	T	C	0.079	0.018	7.23E-06	9108
genus.Eggerthella.id.819	rs1327257	A	G	-0.189	0.041	7.23E-06	5036
genus.Anaerofilum.id.2053	rs10754535	G	C	0.094	0.021	7.23E-06	4935
genus.Victivallis.id.2256	rs7374366	A	G	-0.182	0.041	7.23E-06	3235
genus.Actinomyces.id.423	rs36009731	G	A	0.080	0.018	7.23E-06	7424
genus.Flavonifractor.id.2059	rs7524151	G	A	-0.067	0.015	7.22E-06	10805
genus.RuminococcaceaeUCG003.id.11361	rs4593487	T	C	-0.060	0.013	7.22E-06	14408
genus.RuminococcaceaeUCG002.id.11360	rs57079348	G	T	-0.077	0.017	7.22E-06	16372
genus.RuminococcaceaeUCG003.id.11361	rs4642592	T	G	-0.060	0.013	7.21E-06	14408
genus.Intestinibacter.id.11345	rs543165	C	T	-0.132	0.029	7.21E-06	10812
genus.Butyrivibrio.id.1993	rs240993	C	T	-0.119	0.026	7.21E-06	3482
genus.Subdoligranulum.id.2070	rs11410065	T	G	-0.052	0.012	7.21E-06	17591
genus.Clostridiuminnocuumgroup.id.14397	rs11875989	C	A	0.145	0.032	7.21E-06	4166
genus.Sellimonas.id.14369	rs113379006	C	T	-0.163	0.036	7.21E-06	3154
genus.Eubacteriumnodatumgroup.id.11297	rs9425984	C	T	-0.130	0.029	7.21E-06	3294
genus.Bifidobacterium.id.436	rs7570283	T	C	0.091	0.020	7.21E-06	14778
genus.Sutterella.id.2896	rs2613606	T	C	-0.056	0.012	7.20E-06	13249
genus.Sutterella.id.2896	rs1145877	G	A	-0.074	0.016	7.20E-06	13251
genus.Eubacteriumxylanophilumgroup.id.14375	rs79618182	G	A	-0.091	0.020	7.20E-06	13256
genus.Eubacteriumxylanophilumgroup.id.14375	rs4654122	G	C	0.055	0.012	7.20E-06	13309
genus.LachnospiraceaeNK4A136group.id.11319	rs11030127	G	A	0.054	0.012	7.19E-06	17235
genus.ErysipelotrichaceaeUCG003.id.11384	rs357893	C	T	-0.060	0.014	7.19E-06	14899

genus.RuminococcaceaeUCG002.id.11360	rs11607472	G	A	-0.078	0.018	7.19E-06	16282
genus.unknowngenus.id.1868	rs11978666	G	C	-0.129	0.029	7.19E-06	9748
genus.Lactococcus.id.1851	rs3960411	T	C	0.111	0.025	7.19E-06	4057
genus.Lachnoclostridium.id.11308	rs7007181	C	T	-0.051	0.011	7.18E-06	17918
genus.unknowngenus.id.1000005472	rs483881	A	G	-0.087	0.019	7.18E-06	10359
genus.Ruminiclostridium9.id.11357	rs73154304	T	G	-0.058	0.013	7.18E-06	16724
genus.Parasutterella.id.2892	rs7670098	C	T	0.060	0.013	7.18E-06	11385
genus.unknowngenus.id.2041	rs2290442	A	G	0.072	0.016	7.17E-06	7941
genus..Eubacteriumnodatumgroup.id.11297	rs7827125	T	C	0.122	0.027	7.17E-06	3294
genus.Ruminiclostridium5.id.11355	rs10848560	C	T	-0.049	0.011	7.17E-06	17397
genus.Blautia.id.1992	rs67645219	T	C	0.056	0.012	7.17E-06	18274
genus.Gordonibacter.id.821	rs3765837	G	T	-0.191	0.043	7.17E-06	3556
genus.Sellimonas.id.14369	rs2570251	T	C	0.113	0.025	7.17E-06	3154
genus.Peptococcus.id.2037	rs6573152	G	A	0.106	0.024	7.17E-06	5483
genus.Lactococcus.id.1851	rs10424823	G	A	0.111	0.025	7.17E-06	4057
genus.Subdoligranulum.id.2070	rs2022769	T	C	-0.050	0.011	7.16E-06	17584
genus.Blautia.id.1992	rs2788271	G	T	-0.058	0.013	7.16E-06	18276
genus.Dorea.id.1997	rs1529992	T	G	0.051	0.011	7.16E-06	17610
genus..Ruminococcustorquesgroup.id.14377	rs13154778	A	T	0.056	0.013	7.16E-06	17795
genus..Eubacteriumruminantiumgroup.id.11340	rs7164992	G	C	-0.074	0.017	7.15E-06	7314
genus.Ruminiclostridium5.id.11355	rs2801956	A	G	0.052	0.012	7.15E-06	17382
genus.Bilophila.id.3170	rs4798126	A	G	0.073	0.017	7.15E-06	12777
genus.Parasutterella.id.2892	rs11058430	A	T	-0.072	0.016	7.15E-06	11386
genus.LachnospiraceaeUCG010.id.11330	rs72894980	A	C	0.220	0.049	7.14E-06	4316
genus.Erysipelatoclostridium.id.11381	rs16936674	G	T	-0.097	0.022	7.14E-06	9489
genus.Lachnoclostridium.id.11308	rs2385421	G	A	0.075	0.018	7.14E-06	17903
genus.Slackia.id.825	rs77333555	G	C	-0.117	0.026	7.13E-06	6063
genus.ChristensenellaceaeR.7group.id.11283	rs60954665	G	T	0.050	0.011	7.13E-06	16324
genus.Ruminococcus1.id.11373	rs4756008	A	C	-0.052	0.012	7.13E-06	16603
genus.Oxalobacter.id.2978	rs6993398	A	G	0.127	0.028	7.13E-06	4656
genus.Veillonella.id.2198	rs11614532	C	G	0.074	0.017	7.13E-06	8411

genus.Sellimonas.id.14369	rs2606130	C	T	-0.116	0.026	7.13E-06	3154
genus.Lachnoclostridium.id.11308	rs73232901	C	A	-0.086	0.019	7.13E-06	17920
genus.Flavonifractor.id.2059	rs114873521	T	C	-0.130	0.029	7.13E-06	9156
genus.Butyrivibrio.id.1993	rs8073494	A	G	0.115	0.026	7.12E-06	3476
genus.LachnospiraceaeUCG004.id.11324	rs9638636	T	A	0.053	0.012	7.12E-06	14463
genus.unknowngenus.id.959	rs474008	A	T	-0.102	0.023	7.12E-06	4565
genus.Ruminococcus1.id.11373	rs7584526	A	G	0.050	0.011	7.12E-06	16584
genus.Oxalobacter.id.2978	rs2207331	T	C	-0.096	0.021	7.12E-06	4635
genus.Alistipes.id.968	rs2450745	C	A	-0.081	0.018	7.12E-06	17571
genus.Ruminococcusgnavusgroup.id.14376	rs12989336	A	G	-0.085	0.019	7.12E-06	6401
genus.Eubacteriumeligensgroup.id.14372	rs12719051	G	A	0.092	0.021	7.12E-06	12799
genus.Paraprevotella.id.962	rs11036239	T	C	-0.136	0.029	7.12E-06	7137
genus.LachnospiraceaeNK4A136group.id.11319	rs77192568	A	C	0.059	0.013	7.12E-06	17236
genus.unknowngenus.id.2071	rs11160752	C	G	-0.062	0.014	7.11E-06	12618
genus.RuminococcaceaeUCG004.id.11362	rs12055694	G	A	-0.078	0.017	7.11E-06	9502
genus.LachnospiraceaeUCG008.id.11328	rs11025181	C	T	-0.087	0.019	7.11E-06	7017
genus.LachnospiraceaeUCG008.id.11328	rs7931824	G	A	-0.116	0.026	7.11E-06	7017
genus.Olsenella.id.822	rs6553736	A	G	-0.104	0.023	7.11E-06	3739
genus.Peptococcus.id.2037	rs9299350	A	G	0.087	0.019	7.11E-06	5657
genus.Ruminiclostridium6.id.11356	rs9555756	C	A	-0.080	0.018	7.10E-06	13369
genus.CandidatusSoleaferrea.id.11350	rs75942063	G	A	-0.122	0.028	7.10E-06	6104
genus.Collinsella.id.815	rs149807560	A	C	-0.104	0.024	7.10E-06	13473
genus.RuminococcaceaeUCG010.id.11367	rs8056635	T	C	0.065	0.014	7.09E-06	12415
genus.Marvinbryantia.id.2005	rs649360	T	C	0.061	0.014	7.09E-06	11950
genus.RuminococcaceaeUCG004.id.11362	rs7123615	G	C	-0.079	0.018	7.09E-06	9502
genus.ChristensenellaceaeR.7group.id.11283	rs62467083	C	T	0.111	0.025	7.09E-06	12630
genus.Marvinbryantia.id.2005	rs3991048	T	G	0.059	0.013	7.09E-06	11939
genus.FamilyXIIIUCG001.id.11294	rs62414803	A	G	-0.060	0.013	7.09E-06	12747
genus.Dialister.id.2183	rs12334717	C	G	0.059	0.013	7.08E-06	11720
genus.Streptococcus.id.1853	rs11006959	C	G	0.069	0.016	7.08E-06	16383
genus.RuminococcaceaeUCG011.id.11368	rs55701287	C	T	0.169	0.037	7.08E-06	3632

genus.Peptococcus.id.2037	rs34419559	C	T	0.182	0.040	7.08E-06	5230
genus.Ruminiclostridium9.id.11357	rs73172134	A	G	-0.058	0.013	7.08E-06	16725
genus.Parasutterella.id.2892	rs72981403	C	G	0.087	0.019	7.07E-06	11294
genus.LachnospiraceaeUCG004.id.11324	rs12072562	C	T	0.133	0.030	7.07E-06	9176
genus.Ruminiclostridium9.id.11357	rs7137760	T	C	0.051	0.011	7.07E-06	16722
genus.Oxalobacter.id.2978	rs2426956	A	C	-0.097	0.022	7.07E-06	4635
genus.Dorea.id.1997	rs4831351	C	T	-0.095	0.021	7.07E-06	15817
genus.Oxalobacter.id.2978	rs13117955	G	T	0.193	0.043	7.06E-06	4210
genus.Dorea.id.1997	rs11150408	G	T	0.049	0.011	7.06E-06	17215
genus..Ruminococcusgnavusgroup.id.14376	rs34867396	T	C	-0.105	0.023	7.06E-06	6327
genus.Ruminococcus1.id.11373	rs11038614	G	T	-0.051	0.011	7.06E-06	16598
genus.Dialister.id.2183	rs1601589	C	T	0.101	0.023	7.06E-06	11934
genus.Paraprevotella.id.962	rs12226824	T	A	-0.135	0.029	7.06E-06	7136
genus.Allisonella.id.2174	rs487355	G	A	-0.173	0.040	7.06E-06	3212
genus.LachnospiraceaeNK4A136group.id.11319	rs4955932	C	T	-0.049	0.011	7.05E-06	17236
genus.RikenellaceaeRC9gutgroup.id.11191	rs7130972	G	A	0.112	0.025	7.05E-06	3334
genus.Anaerostipes.id.1991	rs11197330	T	C	-0.049	0.011	7.05E-06	16925
genus.Ruminiclostridium5.id.11355	rs2482037	A	G	0.050	0.011	7.05E-06	17396
genus.Anaerostipes.id.1991	rs1927481	C	T	-0.049	0.011	7.05E-06	16925
genus.RuminococcaceaeUCG004.id.11362	rs10976229	G	T	0.096	0.021	7.04E-06	9116
genus.LachnospiraceaeUCG010.id.11330	rs75252958	G	A	0.080	0.018	7.04E-06	13121
genus.Eggerthella.id.819	rs1784437	C	T	0.090	0.020	7.04E-06	5147
genus.Ruminiclostridium9.id.11357	rs1609523	G	A	-0.050	0.011	7.04E-06	16721
genus.Coprococcus3.id.11303	rs4575475	A	G	0.062	0.014	7.04E-06	15154
genus.RuminococcaceaeUCG014.id.11371	rs439810	C	G	-0.058	0.013	7.04E-06	14403
genus.Alistipes.id.968	rs8132143	A	T	-0.048	0.011	7.04E-06	17571
genus.Phascolarctobacterium.id.2168	rs1405230	A	C	0.064	0.014	7.04E-06	11100
genus.Gordonibacter.id.821	rs71545975	G	A	-0.154	0.034	7.04E-06	3556
genus.Streptococcus.id.1853	rs2975635	C	T	-0.056	0.013	7.04E-06	16382
genus.Parasutterella.id.2892	rs7955812	G	C	-0.073	0.016	7.04E-06	11385
genus.Akkermansia.id.4037	rs72663769	T	C	0.066	0.015	7.03E-06	11860

genus.RuminococcaceaeUCG004.id.11362	rs3800178	T	C	-0.080	0.018	7.03E-06	9502
genus.Methanobrevibacter.id.123	rs11018665	T	A	0.113	0.025	7.03E-06	3586
genus.Collinsella.id.815	rs4753793	T	A	-0.054	0.012	7.03E-06	14334
genus.LachnospiraceaeUCG004.id.11324	rs12202257	A	G	-0.055	0.012	7.03E-06	14448
genus..Eubacteriumbrachygroup.id.11296	rs720439	G	A	-0.112	0.025	7.03E-06	4001
genus.Anaerostipes.id.1991	rs2249799	G	A	-0.050	0.011	7.03E-06	16926
genus..Ruminococcusgnavusgroup.id.14376	rs11128172	A	G	-0.081	0.018	7.03E-06	6401
genus..Eubacteriumruminantiumgroup.id.11340	rs606082	G	A	0.082	0.018	7.02E-06	7263
genus.Flavonifractor.id.2059	rs798674	C	G	0.064	0.014	7.02E-06	10583
genus.Erysipelatoclostridium.id.11381	rs9652192	A	C	0.066	0.015	7.02E-06	9782
genus.LachnospiraceaeFCS020group.id.11314	rs9851162	A	T	0.058	0.013	7.02E-06	13772
genus.Coproccoccus3.id.11303	rs4368354	G	A	-0.070	0.015	7.02E-06	15833
genus.Faecalibacterium.id.2057	rs10927394	T	G	-0.232	0.051	7.02E-06	3495
genus.Tyzzereella3.id.11335	rs76319841	C	A	-0.127	0.028	7.02E-06	5395
genus.Turicibacter.id.2162	rs59138429	T	G	0.100	0.022	7.02E-06	8949
genus.Butyrivibrio.id.1993	rs10457240	A	G	-0.109	0.024	7.02E-06	3482
genus.RuminococcaceaeUCG003.id.11361	rs281379	G	A	0.055	0.012	7.02E-06	13915
genus.Ruminiclostridium9.id.11357	rs11571293	G	T	0.051	0.011	7.02E-06	16717
genus.Howardella.id.2000	rs12673422	T	C	-0.155	0.034	7.01E-06	3770
genus.Peptococcus.id.2037	rs72850167	C	T	-0.133	0.030	7.01E-06	5627
genus.Lachnoclostridium.id.11308	rs6035269	T	C	-0.050	0.011	7.01E-06	17826
genus.RuminococcaceaeUCG009.id.11366	rs9558661	C	T	-0.090	0.020	7.01E-06	7480
genus.Alistipes.id.968	rs34417064	G	A	-0.048	0.011	7.01E-06	17570
genus.Hungatella.id.11306	rs13112952	C	T	-0.153	0.034	7.01E-06	3948
genus..Clostridiuminnocuumgroup.id.14397	rs59596655	G	T	0.147	0.033	7.00E-06	4165
genus.Prevotella9.id.11183	rs11199734	T	A	0.077	0.017	7.00E-06	10263
genus.Bifidobacterium.id.436	rs6705916	T	C	0.054	0.012	7.00E-06	14778
genus..Clostridiuminnocuumgroup.id.14397	rs10074000	C	T	-0.103	0.023	7.00E-06	4048
genus..Clostridiuminnocuumgroup.id.14397	rs67307009	A	G	0.146	0.032	7.00E-06	4165
genus.LachnospiraceaeNK4A136group.id.11319	rs57090479	T	C	-0.053	0.011	7.00E-06	17236
genus.Eggerthella.id.819	rs1784435	C	T	0.090	0.020	7.00E-06	5147

genus..Eubacteriumbrachygroup.id.11296	rs1384962	G	A	0.121	0.027	6.99E-06	4001
genus.FamilyXIIIUCG001.id.11294	rs12606	C	T	-0.060	0.013	6.99E-06	12748
genus.Enterorhabdus.id.820	rs7121381	A	G	0.095	0.021	6.99E-06	7524
genus.Peptococcus.id.2037	rs36121075	G	A	-0.141	0.031	6.99E-06	5301
genus.Ruminococcus2.id.11374	rs4663243	G	A	0.064	0.014	6.98E-06	14715
genus.Romboutsia.id.11347	rs7109293	G	A	0.092	0.021	6.98E-06	14141
genus..Ruminococcusgavreuiiigroup.id.11342	rs289408	A	G	-0.063	0.014	6.98E-06	13380
genus..Eubacteriumhalliigroup.id.11338	rs11717425	C	T	-0.052	0.012	6.98E-06	16567
genus.RuminococcaceaeUCG003.id.11361	rs11878908	C	T	0.054	0.012	6.98E-06	14320
genus.Adlercreutzia.id.812	rs10279572	G	C	0.139	0.031	6.98E-06	8107
genus.Marvinbryantia.id.2005	rs4336070	G	A	0.061	0.014	6.97E-06	11950
genus.Lactococcus.id.1851	rs12712305	A	G	0.108	0.024	6.97E-06	4058
genus..Eubacteriumruminantiumgroup.id.11340	rs13025464	C	T	-0.074	0.016	6.97E-06	7738
genus.Akkermansia.id.4037	rs12026127	G	A	0.064	0.014	6.97E-06	11860
genus.LachnospiraceaeFCS020group.id.11314	rs12862721	C	A	-0.059	0.013	6.97E-06	13772
genus..Ruminococcusgavreuiiigroup.id.11342	rs61838419	G	A	-0.059	0.013	6.97E-06	13379
genus.Dorea.id.1997	rs2125444	T	A	0.053	0.012	6.97E-06	16645
genus.Parasutterella.id.2892	rs8028823	A	C	0.060	0.013	6.96E-06	11383
genus.Victivallis.id.2256	rs34702749	A	T	-0.143	0.031	6.96E-06	3260
genus.Akkermansia.id.4037	rs79837054	T	C	0.106	0.024	6.96E-06	11215
genus.Intestinibacter.id.11345	rs506687	C	T	-0.132	0.029	6.95E-06	10812
genus..Ruminococcusgnavusgroup.id.14376	rs11597105	G	A	0.115	0.025	6.95E-06	6328
genus..Eubacteriumhalliigroup.id.11338	rs4682185	A	G	-0.052	0.012	6.95E-06	16561
genus.ErysipelotrichaceaeUCG003.id.11384	rs62102329	T	C	-0.098	0.022	6.94E-06	13748
genus.Lactococcus.id.1851	rs72799268	T	C	-0.169	0.039	6.94E-06	4023
genus.Sutterella.id.2896	rs1859743	C	T	-0.056	0.012	6.93E-06	13173
genus.Coproacter.id.949	rs6496714	T	C	0.099	0.022	6.93E-06	6790
genus.Bifidobacterium.id.436	rs3769001	A	G	0.073	0.016	6.92E-06	14778
genus.LachnospiraceaeUCG008.id.11328	rs57254474	A	G	0.089	0.020	6.92E-06	7017
genus..Eubacteriumruminantiumgroup.id.11340	rs605239	G	A	0.082	0.018	6.92E-06	7264
genus.Fusicatenibacter.id.11305	rs8071840	A	G	-0.049	0.011	6.92E-06	17384

genus.Anaerotruncus.id.2054	rs7675045	T	A	-0.050	0.011	6.92E-06	16566
genus.Desulfovibrio.id.3173	rs1119400	T	C	-0.066	0.015	6.91E-06	9231
genus.Allisonella.id.2174	rs35241252	G	T	0.139	0.031	6.91E-06	3212
genus.FamilyXIIIAD3011group.id.11293	rs12911842	T	A	-0.081	0.018	6.91E-06	14125
genus.Lachnoclostridium.id.11308	rs6035306	G	T	-0.049	0.011	6.90E-06	17842
genus.Oxalobacter.id.2978	rs2144154	G	A	-0.096	0.021	6.90E-06	4634
genus.RuminococcaceaeUCG003.id.11361	rs72674078	C	T	-0.060	0.013	6.90E-06	14412
genus.Eubacteriumruminantiumgroup.id.11340	rs139737	C	A	-0.085	0.019	6.90E-06	7728
genus.Butyricimonas.id.945	rs9981005	G	A	-0.117	0.026	6.90E-06	9944
genus.Collinsella.id.815	rs62448870	A	G	-0.054	0.012	6.90E-06	14334
genus.Bifidobacterium.id.436	rs56100046	T	A	0.074	0.016	6.89E-06	14778
genus.Parasutterella.id.2892	rs1425386	C	G	0.060	0.013	6.89E-06	11301
genus.Fusicatenibacter.id.11305	rs4477213	C	T	-0.052	0.012	6.89E-06	17381
genus.Turicibacter.id.2162	rs113203503	C	T	0.097	0.022	6.89E-06	8928
genus.Butyrivibrio.id.1993	rs9579032	A	G	-0.117	0.026	6.89E-06	3480
genus.Ruminococcusgnavusgroup.id.14376	rs12515623	T	G	-0.096	0.021	6.89E-06	6327
genus.FamilyXIIIAD3011group.id.11293	rs61914226	A	G	-0.088	0.020	6.89E-06	13567
genus.Tyzzereella3.id.11335	rs112730207	A	C	-0.216	0.048	6.88E-06	3857
genus.Prevotella9.id.11183	rs13261970	G	C	-0.068	0.015	6.88E-06	10271
genus.Lachnoclostridium.id.11308	rs4814842	A	T	-0.049	0.011	6.88E-06	17842
genus.RuminococcaceaeUCG004.id.11362	rs138868222	T	C	0.124	0.028	6.88E-06	8801
genus.Parasutterella.id.2892	rs472307	C	T	0.060	0.014	6.88E-06	11386
genus.Butyricimonas.id.945	rs2114713	T	G	0.063	0.014	6.88E-06	10734
genus.Oxalobacter.id.2978	rs73733942	C	T	-0.134	0.030	6.88E-06	4492
genus.Victivallis.id.2256	rs1407533	T	G	0.111	0.025	6.87E-06	3266
genus.Clostridiuminnocuumgroup.id.14397	rs11661723	A	T	0.147	0.033	6.87E-06	4161
genus.Subdoligranulum.id.2070	rs17122514	G	A	-0.050	0.011	6.87E-06	17591
genus.Ruminiclostridium5.id.11355	rs12316367	G	A	-0.049	0.011	6.87E-06	17397
genus.Eubacteriumventriosumgroup.id.11341	rs66830358	A	T	0.053	0.012	6.87E-06	14913
genus.Allisonella.id.2174	rs12554363	G	T	0.135	0.030	6.87E-06	3212
genus.Marvinbryantia.id.2005	rs146541147	A	G	0.119	0.027	6.86E-06	10778

genus..Eubacteriumventriosumgroup.id.11341	rs2152497	T	C	-0.053	0.012	6.86E-06	15289
genus.Ruminiclostridium5.id.11355	rs10773989	T	C	-0.049	0.011	6.86E-06	17016
genus.Anaerostipes.id.1991	rs11197336	T	C	-0.050	0.011	6.86E-06	16925
genus.Lactococcus.id.1851	rs143307941	C	A	-0.170	0.039	6.86E-06	4022
genus.Olsenella.id.822	rs13004145	C	T	-0.106	0.024	6.86E-06	3739
genus.Anaerostipes.id.1991	rs2025912	G	T	-0.050	0.011	6.86E-06	16925
genus.Butyrvibrio.id.1993	rs142855850	G	A	0.205	0.046	6.86E-06	3234
genus..Eubacteriumrectalegroup.id.14374	rs3980709	T	A	-0.062	0.014	6.86E-06	17340
genus.Anaerostipes.id.1991	rs10787584	C	T	-0.050	0.011	6.85E-06	16925
genus.Blautia.id.1992	rs113271346	T	C	0.078	0.017	6.85E-06	17465
genus.Erysipelatoclostridium.id.11381	rs1434153	A	G	-0.068	0.015	6.85E-06	9662
genus.Barnesiella.id.944	rs4387569	A	T	-0.054	0.012	6.85E-06	14205
genus.RuminococcaceaeUCG004.id.11362	rs3800155	A	G	-0.079	0.018	6.85E-06	9406
genus.Oscillospira.id.2064	rs751183	C	T	-0.077	0.017	6.85E-06	9841
genus.LachnospiraceaeFCS020group.id.11314	rs12489401	T	G	0.055	0.012	6.85E-06	13772
genus..Eubacteriumrectalegroup.id.14374	rs11216331	A	G	-0.063	0.014	6.85E-06	17351
genus.Intestinibacter.id.11345	rs10491567	C	A	-0.104	0.023	6.85E-06	12302
genus.Lactococcus.id.1851	rs72799248	T	A	-0.183	0.042	6.84E-06	4008
genus.Alistipes.id.968	rs2150411	G	T	-0.048	0.011	6.84E-06	17571
genus.Intestinibacter.id.11345	rs62430350	C	T	0.151	0.035	6.84E-06	7650
genus.Roseburia.id.2012	rs11253733	G	A	0.048	0.011	6.84E-06	17849
genus..Eubacteriumnodatumgroup.id.11297	rs7880204	C	T	-0.125	0.028	6.84E-06	3294
genus.Holdemanella.id.11393	rs62113417	T	A	-0.104	0.023	6.84E-06	7310
genus.Sellimonas.id.14369	rs919059	G	A	0.113	0.025	6.84E-06	3154
genus.RuminococcaceaeUCG003.id.11361	rs10504733	A	G	-0.060	0.013	6.84E-06	14412
genus.Anaerotruncus.id.2054	rs115414803	C	A	-0.144	0.032	6.83E-06	9273
genus.Bilophila.id.3170	rs10230993	T	C	0.063	0.014	6.83E-06	12856
genus.Lactobacillus.id.1837	rs75127669	A	C	0.140	0.031	6.83E-06	6840
genus.DefluviitaleaceaeUCG011.id.11287	rs2892880	A	G	0.082	0.018	6.83E-06	8182
genus.Oscillibacter.id.2063	rs80144401	C	T	-0.127	0.028	6.83E-06	8528
genus.Ruminococcus1.id.11373	rs729646	C	A	-0.062	0.014	6.83E-06	16527

genus..Eubacteriumrectalegroup.id.14374	rs12361923	T	C	-0.063	0.014	6.82E-06	17351
genus.Bifidobacterium.id.436	rs139939202	G	A	0.075	0.016	6.82E-06	14777
genus.RuminococcaceaeUCG004.id.11362	rs2889331	G	A	0.118	0.027	6.82E-06	9020
genus.LachnospiraceaeUCG008.id.11328	rs72900057	G	T	-0.107	0.024	6.82E-06	6950
genus.Collinsella.id.815	rs62448869	A	T	-0.054	0.012	6.82E-06	14334
genus.FamilyXIIIAD3011group.id.11293	rs34930668	G	C	-0.088	0.019	6.82E-06	13564
genus.Ruminiclostridium5.id.11355	rs2833828	A	G	0.049	0.011	6.82E-06	17397
genus.RuminococcaceaeUCG010.id.11367	rs73218806	C	T	-0.166	0.037	6.81E-06	6714
genus.Peptococcus.id.2037	rs12640791	A	G	-0.089	0.020	6.81E-06	5657
genus.RuminococcaceaeUCG002.id.11360	rs12971317	G	A	-0.052	0.012	6.81E-06	16997
genus.RuminococcaceaeUCG010.id.11367	rs7441445	T	C	-0.057	0.013	6.80E-06	12852
genus.Coprococcus2.id.11302	rs7685943	G	A	0.072	0.016	6.80E-06	11470
genus.RuminococcaceaeNK4A214group.id.11358	rs2121404	A	G	-0.052	0.012	6.80E-06	15288
genus.Butyricicoccus.id.2055	rs75238760	A	T	0.062	0.014	6.80E-06	17022
genus..Eubacteriumruminantiumgroup.id.11340	rs10923018	A	G	0.073	0.016	6.80E-06	7739
genus.Phascolarctobacterium.id.2168	rs130483	G	A	0.066	0.014	6.79E-06	11096
genus.Coprococcus1.id.11301	rs4519976	C	T	-0.049	0.011	6.79E-06	16732
genus.Ruminococcus2.id.11374	rs61791565	C	T	-0.052	0.012	6.79E-06	15319
genus.Intestinibacter.id.11345	rs2098844	T	C	-0.058	0.013	6.79E-06	12291
genus.Phascolarctobacterium.id.2168	rs987268	G	C	0.062	0.014	6.79E-06	11110
genus.Flavonifractor.id.2059	rs7538430	A	G	-0.068	0.015	6.79E-06	10805
genus.Collinsella.id.815	rs62448871	A	C	-0.054	0.012	6.78E-06	14334
genus.Collinsella.id.815	rs1496626	C	T	-0.072	0.016	6.78E-06	14334
genus.Coprococcus1.id.11301	rs9342888	A	T	-0.049	0.011	6.78E-06	16732
genus.Barnesiella.id.944	rs76181748	T	C	-0.078	0.017	6.78E-06	14201
genus.Marvinbryantia.id.2005	rs9877395	C	G	0.061	0.014	6.78E-06	11948
genus..Ruminococcusgavreuiiigroup.id.11342	rs188296	C	T	-0.063	0.014	6.77E-06	13380
genus.Peptococcus.id.2037	rs2346470	G	A	0.107	0.024	6.77E-06	5483
genus..Eubacteriumrectalegroup.id.14374	rs4297429	T	C	-0.063	0.014	6.77E-06	17351
genus.Romboutsia.id.11347	rs10261799	C	A	0.055	0.012	6.77E-06	14187
genus..Eubacteriumbrachygroup.id.11296	rs142445524	G	C	-0.163	0.036	6.77E-06	3988

genus.Roseburia.id.2012	rs2935503	T	C	0.048	0.011	6.77E-06	17854
genus.Ruminiclostridium5.id.11355	rs9739162	G	T	-0.048	0.011	6.76E-06	17397
genus.Collinsella.id.815	rs11212094	C	T	-0.054	0.012	6.76E-06	14334
genus.Tyzzereella3.id.11335	rs191093	A	G	0.159	0.035	6.76E-06	4621
genus.Oxalobacter.id.2978	rs75151797	G	C	0.149	0.032	6.76E-06	4656
genus.Barnesiella.id.944	rs72684847	C	T	-0.114	0.025	6.76E-06	12984
genus.Lactococcus.id.1851	rs72799259	C	T	-0.170	0.039	6.76E-06	4022
genus.Marvinbryantia.id.2005	rs9813109	G	A	0.061	0.014	6.76E-06	11950
genus.Marvinbryantia.id.2005	rs5019680	G	T	0.062	0.014	6.76E-06	11709
genus.Paraprevotella.id.962	rs17109926	G	A	-0.099	0.022	6.75E-06	7179
genus.Eisenbergiella.id.11304	rs2139516	C	T	0.127	0.029	6.75E-06	5583
genus.Eggerthella.id.819	rs12701617	G	A	-0.090	0.020	6.75E-06	5147
genus.Streptococcus.id.1853	rs11006989	A	G	0.097	0.021	6.75E-06	15294
genus.Romboutsia.id.11347	rs7930091	A	G	-0.071	0.016	6.75E-06	14188
genus.Copro bacter.id.949	rs6496717	T	C	0.089	0.020	6.75E-06	6791
genus.Olsenella.id.822	rs2424252	G	A	0.113	0.025	6.75E-06	3705
genus.Anaerostipes.id.1991	rs6474958	G	A	-0.050	0.011	6.74E-06	16918
genus.Butyricimonas.id.945	rs1466576	T	C	0.063	0.014	6.74E-06	10737
genus.Parasutterella.id.2892	rs225533	A	G	-0.064	0.014	6.74E-06	11386
genus.Alistipes.id.968	rs62476322	G	A	-0.049	0.011	6.74E-06	17570
genus.Butyrivibrio.id.1993	rs10070855	G	C	0.140	0.031	6.74E-06	3482
genus.Oscillibacter.id.2063	rs9295777	T	G	-0.069	0.015	6.74E-06	8658
genus..Ruminococcusgavreuiigroup.id.11342	rs289414	C	T	-0.063	0.014	6.74E-06	13380
genus.Sellimonas.id.14369	rs67895020	A	G	0.114	0.025	6.74E-06	3154
genus.Akkermansia.id.4037	rs12045978	G	A	0.064	0.014	6.73E-06	11864
genus.LachnospiraceaeUCG008.id.11328	rs10899032	C	T	0.083	0.018	6.73E-06	6930
genus.Anaerostipes.id.1991	rs2769413	C	A	-0.050	0.011	6.73E-06	16926
genus.Anaerostipes.id.1991	rs35875963	A	G	-0.050	0.011	6.73E-06	16925
genus.Butyricimonas.id.945	rs4747116	T	C	0.064	0.014	6.73E-06	10737
genus.Bacteroides.id.918	rs1340391	C	T	-0.059	0.013	6.73E-06	18302
genus.LachnospiraceaeFCS020group.id.11314	rs10936478	T	A	0.055	0.012	6.73E-06	13772

genus.LachnospiraceaeUCG001.id.11321	rs9386077	A	G	0.107	0.024	6.73E-06	10097
genus.Peptococcus.id.2037	rs17795775	C	T	0.108	0.024	6.73E-06	5483
genus.Clostridiuminnocuumgroup.id.14397	rs61277346	T	C	0.146	0.032	6.73E-06	4165
genus.Oscillospira.id.2064	rs9712594	A	C	-0.106	0.023	6.73E-06	9769
genus.Fusicatenibacter.id.11305	rs9730041	C	A	-0.055	0.012	6.72E-06	17381
genus.Anaerostipes.id.1991	rs2804247	A	G	-0.050	0.011	6.72E-06	16926
genus.Subdoligranulum.id.2070	rs1667315	A	G	0.049	0.011	6.72E-06	17586
genus.Lachnoclostridium.id.11308	rs3821998	A	C	-0.086	0.019	6.72E-06	17920
genus.Oscillibacter.id.2063	rs7156445	G	A	-0.069	0.015	6.72E-06	8930
genus.Escherichia.Shigella.id.3504	rs76027895	T	C	0.100	0.022	6.72E-06	12000
genus.Eggerthella.id.819	rs1784434	A	G	0.090	0.020	6.72E-06	5147
genus.Allisonella.id.2174	rs10981801	C	A	0.136	0.030	6.72E-06	3212
genus.RuminococcaceaeUCG014.id.11371	rs73186226	A	G	-0.099	0.022	6.72E-06	13760
genus.Peptococcus.id.2037	rs13112950	C	G	-0.089	0.020	6.71E-06	5657
genus.Turicibacter.id.2162	rs10845477	G	A	-0.095	0.021	6.71E-06	8949
genus.RuminococcaceaeUCG011.id.11368	rs10513800	C	A	0.128	0.028	6.71E-06	3632
genus.Coprococcus1.id.11301	rs4330511	G	A	-0.049	0.011	6.71E-06	16732
genus.Romboutsia.id.11347	rs75987356	A	G	-0.130	0.028	6.71E-06	10466
genus.FamilyXIIIUCG001.id.11294	rs17192223	C	T	-0.060	0.013	6.71E-06	12750
genus.Adlercreutzia.id.812	rs6537600	T	C	0.112	0.026	6.71E-06	8051
genus.Holdemania.id.2157	rs4636956	G	A	-0.067	0.015	6.71E-06	9103
genus.Victivallis.id.2256	rs7744734	A	C	0.112	0.025	6.70E-06	3265
genus.Erysipelatoclostridium.id.11381	rs62060367	C	T	-0.080	0.018	6.70E-06	9662
genus.Olsenella.id.822	rs34694585	T	C	-0.105	0.023	6.70E-06	3739
genus.Intestinibacter.id.11345	rs10811556	C	A	-0.104	0.023	6.70E-06	12302
genus.Butyrlicimonas.id.945	rs12304031	A	G	-0.086	0.020	6.70E-06	10658
genus.Actinomyces.id.423	rs4962491	T	C	0.169	0.037	6.70E-06	6347
genus.Butyrivibrio.id.1993	rs240991	G	C	-0.119	0.026	6.70E-06	3482
genus.Subdoligranulum.id.2070	rs8015544	G	A	-0.050	0.011	6.70E-06	17589
genus.ErysipelotrichaceaeUCG003.id.11384	rs6875357	T	C	0.166	0.035	6.70E-06	7034
genus.Oscillibacter.id.2063	rs6988470	C	T	-0.069	0.015	6.70E-06	8694

genus.Ruminiclostridium6.id.11356	rs12360242	C	T	-0.095	0.022	6.69E-06	12802
genus.Catenibacterium.id.2153	rs212395	G	T	-0.133	0.029	6.69E-06	3239
genus.Ruminococcus2.id.11374	rs7854299	A	G	0.071	0.016	6.69E-06	15338
genus.Alistipes.id.968	rs2836934	A	C	-0.048	0.011	6.69E-06	17571
genus.Subdoligranulum.id.2070	rs7651544	C	A	-0.049	0.011	6.69E-06	17580
genus.Marvinbryantia.id.2005	rs72948275	T	G	-0.121	0.027	6.68E-06	11561
genus.Coprococcus2.id.11302	rs61823518	C	A	-0.096	0.022	6.68E-06	10980
genus.Intestinibacter.id.11345	rs6062862	G	A	0.092	0.020	6.68E-06	12189
genus.ChristensenellaceaeR.7group.id.11283	rs10487399	T	C	0.111	0.025	6.68E-06	12719
genus.Anaerotruncus.id.2054	rs10150232	G	A	0.057	0.012	6.68E-06	16117
genus.Lachnospira.id.2004	rs159484	A	G	0.079	0.018	6.68E-06	16487
genus.Peptococcus.id.2037	rs6573151	A	C	0.106	0.024	6.67E-06	5483
genus.Butyricococcus.id.2055	rs141519424	A	G	0.075	0.017	6.67E-06	17133
genus.Bifidobacterium.id.436	rs55888705	G	A	0.055	0.012	6.67E-06	14777
genus.Holdemania.id.2157	rs11080063	A	G	-0.067	0.015	6.67E-06	9103
genus.Paraprevotella.id.962	rs79933388	A	T	-0.135	0.029	6.67E-06	7136
genus.Paraprevotella.id.962	rs9915190	C	A	-0.079	0.017	6.67E-06	7178
genus.Butyrivibrio.id.1993	rs77356209	C	T	0.217	0.048	6.66E-06	3379
genus.Butyrivibrio.id.1993	rs1002475	C	T	-0.109	0.024	6.66E-06	3482
genus.Parasutterella.id.2892	rs62273906	A	G	0.228	0.050	6.66E-06	3691
genus.Olsenella.id.822	rs2208893	G	T	0.134	0.030	6.66E-06	3648
genus.Desulfovibrio.id.3173	rs2590913	A	G	0.154	0.034	6.65E-06	7225
genus.LachnospiraceaeUCG004.id.11324	rs996183	A	G	0.057	0.013	6.65E-06	14466
genus.RuminococcaceaeUCG010.id.11367	rs886017	G	A	-0.056	0.013	6.65E-06	12852
genus.Flavonifractor.id.2059	rs11642826	C	G	0.147	0.033	6.65E-06	8151
genus.Anaerostipes.id.1991	rs7915314	T	C	-0.050	0.011	6.65E-06	16925
genus.Lachnoclostridium.id.11308	rs7269490	C	T	-0.052	0.012	6.65E-06	17397
genus.Adlercreutzia.id.812	rs6971594	A	G	0.139	0.031	6.65E-06	8107
genus.Eubacteriumventriosumgroup.id.11341	rs1959391	A	C	-0.053	0.012	6.64E-06	15289
genus.Turicibacter.id.2162	rs111439215	A	C	0.097	0.022	6.64E-06	8927
genus.RuminococcaceaeUCG002.id.11360	rs2073705	C	T	-0.056	0.013	6.64E-06	17090

genus.LachnospiraceaeUCG001.id.11321	rs4982387	T	C	-0.068	0.015	6.64E-06	9961
genus.Eubacteriumrectalegroup.id.14374	rs11044927	G	T	-0.096	0.022	6.63E-06	15612
genus.Bifidobacterium.id.436	rs3739030	G	A	0.053	0.012	6.63E-06	14777
genus.ErysipelotrichaceaeUCG003.id.11384	rs8083334	T	C	-0.098	0.022	6.63E-06	13751
genus.Eubacteriumruminantiumgroup.id.11340	rs139759	G	A	-0.077	0.017	6.63E-06	7314
genus.Sutterella.id.2896	rs607327	T	C	0.058	0.013	6.63E-06	13251
genus.LachnospiraceaeUCG010.id.11330	rs74375131	T	C	0.084	0.019	6.63E-06	13128
genus.Ruminococcusgnavusgroup.id.14376	rs78399089	C	T	0.144	0.033	6.63E-06	5944
genus.Turicibacter.id.2162	rs7197190	C	A	-0.073	0.016	6.63E-06	8948
genus.DefluviitaleaceaeUCG011.id.11287	rs28696126	T	A	-0.107	0.024	6.63E-06	7811
genus.Anaerotruncus.id.2054	rs6494922	G	A	0.090	0.020	6.62E-06	16067
genus.Eubacteriumventriosumgroup.id.11341	rs6704822	G	A	0.074	0.017	6.62E-06	15289
genus.Adlercreutzia.id.812	rs7706425	G	C	-0.071	0.016	6.62E-06	8243
genus.Escherichia.Shigella.id.3504	rs9850931	T	A	-0.070	0.016	6.62E-06	11915
genus.Romboutsia.id.11347	rs10091895	C	T	-0.065	0.015	6.62E-06	14188
genus.Senegalimassilia.id.11160	rs6706152	G	C	0.077	0.017	6.62E-06	6923
genus.LachnospiraceaeUCG001.id.11321	rs10815582	T	C	-0.065	0.014	6.61E-06	10150
genus.Ruminiclostridium9.id.11357	rs55999561	A	G	-0.052	0.011	6.61E-06	16725
genus.Butyrivibrio.id.1993	rs486484	G	A	-0.108	0.024	6.61E-06	3456
genus.LachnospiraceaeUCG001.id.11321	rs11790086	G	A	-0.065	0.014	6.61E-06	10150
genus.RikenellaceaeRC9gutgroup.id.11191	rs17032291	C	T	-0.170	0.037	6.61E-06	3206
genus.Collinsella.id.815	rs2094864	G	T	0.074	0.017	6.61E-06	14334
genus.Ruminiclostridium9.id.11357	rs28431969	A	C	-0.056	0.013	6.61E-06	16724
genus.Alistipes.id.968	rs3764077	A	G	0.074	0.017	6.61E-06	17571
genus.Lactococcus.id.1851	rs12621813	A	G	0.108	0.024	6.61E-06	4057
genus.FamilyXIIIUCG001.id.11294	rs2295936	C	T	-0.060	0.013	6.61E-06	12750
genus.Marvinbryantia.id.2005	rs12963345	C	G	-0.060	0.013	6.60E-06	11709
genus.Oscillibacter.id.2063	rs3829748	G	A	0.095	0.021	6.60E-06	8930
genus.Ruminiclostridium9.id.11357	rs9515631	T	C	0.069	0.015	6.60E-06	16725
genus.Sutterella.id.2896	rs7192289	A	C	0.059	0.013	6.60E-06	13253
genus.Adlercreutzia.id.812	rs12650418	C	T	-0.084	0.019	6.60E-06	8243

genus.Oscillibacter.id.2063	rs62206502	A	C	-0.068	0.015	6.60E-06	8883
genus.Subdoligranulum.id.2070	rs17122489	C	G	-0.050	0.011	6.60E-06	17589
genus.Paraprevotella.id.962	rs10842464	C	T	-0.076	0.017	6.60E-06	7178
genus.CandidatusSoleaferrea.id.11350	rs11752532	C	G	-0.122	0.028	6.60E-06	6145
genus.RuminococcaceaeNK4A214group.id.11358	rs11241747	T	C	0.053	0.012	6.59E-06	14822
genus.RuminococcaceaeNK4A214group.id.11358	rs62027366	C	T	0.062	0.014	6.58E-06	14822
genus.Coproccoccus1.id.11301	rs9342887	T	G	-0.049	0.011	6.58E-06	16732
genus.Ruminococcusgavreuiiigroup.id.11342	rs61838421	T	C	-0.059	0.013	6.58E-06	13380
genus.FamilyXIIIUCG001.id.11294	rs10498904	C	A	-0.060	0.013	6.58E-06	12749
genus.Marvinbryantia.id.2005	rs8006832	T	G	-0.095	0.022	6.58E-06	11412
genus.Odoribacter.id.952	rs10423795	T	C	0.055	0.012	6.58E-06	14135
genus.Ruminococcusgavreuiiigroup.id.11342	rs289409	T	C	-0.063	0.014	6.58E-06	13380
genus.ChristensenellaceaeR.7group.id.11283	rs62467069	T	C	0.112	0.025	6.57E-06	12630
genus.RuminococcaceaeUCG004.id.11362	rs7653648	C	G	0.070	0.016	6.57E-06	9502
genus.Lactococcus.id.1851	rs4806170	A	G	0.111	0.025	6.56E-06	4057
genus.Oscillibacter.id.2063	rs11990306	C	G	-0.081	0.018	6.56E-06	8528
genus.LachnospiraceaeNC2004group.id.11316	rs12855868	C	T	-0.156	0.035	6.56E-06	5516
genus.LachnospiraceaeFCS020group.id.11314	rs1542073	G	A	0.055	0.012	6.56E-06	13772
genus.Anaerofilum.id.2053	rs356049	A	G	0.133	0.029	6.56E-06	4994
genus.Marvinbryantia.id.2005	rs9854860	T	G	0.061	0.014	6.56E-06	11948
genus.Oxalobacter.id.2978	rs7617946	T	C	0.104	0.023	6.56E-06	4655
genus.Eisenbergiella.id.11304	rs28716358	C	T	0.101	0.023	6.55E-06	5582
genus.LachnospiraceaeUCG004.id.11324	rs4567981	A	T	-0.055	0.012	6.55E-06	14026
genus.RuminococcaceaeUCG011.id.11368	rs4568515	T	C	0.111	0.025	6.55E-06	3632
genus.Butyricimonas.id.945	rs11228830	G	A	0.135	0.030	6.55E-06	8974
genus.LachnospiraceaeFCS020group.id.11314	rs3999074	T	G	-0.055	0.012	6.55E-06	13772
genus.ErysipelotrichaceaeUCG003.id.11384	rs4758231	T	G	-0.055	0.012	6.55E-06	14890
genus.Desulfovibrio.id.3173	rs12031543	C	T	-0.127	0.028	6.55E-06	8855
genus.Eubacteriumventriosumgroup.id.11341	rs72783037	A	C	0.066	0.014	6.55E-06	15286
genus.Marvinbryantia.id.2005	rs3125831	T	C	0.067	0.015	6.55E-06	11709
genus.Allisonella.id.2174	rs4014782	G	T	0.140	0.031	6.55E-06	3212

genus.Streptococcus.id.1853	rs60486012	A	G	-0.091	0.020	6.55E-06	15940
genus.Intestinibacter.id.11345	rs7032680	C	T	-0.104	0.023	6.54E-06	12302
genus.RuminococcaceaeUCG003.id.11361	rs4629039	A	T	0.055	0.012	6.54E-06	14404
genus.Anaerofilum.id.2053	rs12048664	C	T	0.094	0.021	6.54E-06	4935
genus.FamilyXIIIUCG001.id.11294	rs56006932	C	G	-0.060	0.013	6.53E-06	12750
genus.Eubacteriumrectalegroup.id.14374	rs17132308	T	C	-0.063	0.014	6.53E-06	17351
genus.Bilophila.id.3170	rs1263061	G	A	-0.072	0.016	6.53E-06	12856
genus.Eisenbergiella.id.11304	rs7946438	C	G	0.127	0.029	6.53E-06	5583
genus.Ruminococcus1.id.11373	rs7114779	C	A	-0.051	0.011	6.53E-06	16596
genus.Peptococcus.id.2037	rs12358717	G	A	-0.226	0.048	6.53E-06	3930
genus.FamilyXIIIUCG001.id.11294	rs11755704	G	A	-0.060	0.013	6.53E-06	12749
genus.Anaerostipes.id.1991	rs4498893	A	G	-0.050	0.011	6.53E-06	16925
genus.Ruminococcus1.id.11373	rs10769163	A	G	-0.051	0.011	6.53E-06	16597
genus.Roseburia.id.2012	rs12220334	C	T	0.048	0.011	6.53E-06	17850
genus.Eubacteriumxylanophilumgroup.id.14375	rs2012708	G	A	0.057	0.013	6.53E-06	13306
genus.Bifidobacterium.id.436	rs79954860	A	T	0.110	0.025	6.52E-06	12052
genus.Collinsella.id.815	rs10890671	C	T	-0.054	0.012	6.52E-06	14334
genus.Allisonella.id.2174	rs35788892	A	G	0.136	0.030	6.52E-06	3212
genus.Streptococcus.id.1853	rs71481756	G	T	0.093	0.021	6.51E-06	14526
genus.Olsenella.id.822	rs11676178	T	A	-0.107	0.024	6.51E-06	3739
genus.Anaerostipes.id.1991	rs12620003	C	T	-0.085	0.019	6.51E-06	16925
genus.ChristensenellaceaeR.7group.id.11283	rs10461257	G	A	-0.055	0.012	6.51E-06	15987
genus.Olsenella.id.822	rs4622972	A	G	-0.105	0.023	6.51E-06	3739
genus.Oscillibacter.id.2063	rs72681793	C	G	-0.127	0.028	6.50E-06	8528
genus.Clostridiuminnocuumgroup.id.14397	rs56367012	A	G	0.146	0.032	6.50E-06	4165
genus.Methanobrevibacter.id.123	rs9532770	T	C	0.128	0.028	6.50E-06	3276
genus.Sellimonas.id.14369	rs2652597	A	G	-0.117	0.026	6.50E-06	3154
genus.Sutterella.id.2896	rs11591622	G	T	-0.069	0.015	6.50E-06	12604
genus.Parasutterella.id.2892	rs1403397	T	A	-0.073	0.016	6.50E-06	11385
genus.Ruminococcusgnavusgroup.id.14376	rs329892	A	G	-0.081	0.018	6.50E-06	6398
genus.Ruminiclostridium5.id.11355	rs4934686	C	T	-0.052	0.012	6.50E-06	17395

genus.RuminococcaceaeUCG011.id.11368	rs10274562	T	C	0.111	0.024	6.50E-06	3632
genus.RuminococcaceaeUCG005.id.11363	rs12273363	T	C	0.065	0.014	6.50E-06	15474
genus..Ruminococcusgnavusgroup.id.14376	rs13179441	G	A	-0.091	0.020	6.49E-06	6401
genus.Allisonella.id.2174	rs1123379	T	C	0.136	0.030	6.49E-06	3212
genus..Ruminococcusgnavusgroup.id.14376	rs11102814	C	T	0.086	0.020	6.49E-06	6328
genus.Oxalobacter.id.2978	rs76405250	T	C	-0.135	0.030	6.49E-06	4492
genus.Romboutsia.id.11347	rs11221428	C	T	-0.073	0.016	6.49E-06	14187
genus.Anaerostipes.id.1991	rs10787583	G	A	-0.050	0.011	6.48E-06	16925
genus..Clostridiuminnocuumgroup.id.14397	rs8096953	T	C	0.146	0.032	6.48E-06	4166
genus.Parasutterella.id.2892	rs747286	C	T	0.060	0.013	6.48E-06	11383
genus.Lactococcus.id.1851	rs10422691	A	G	0.111	0.025	6.48E-06	4057
genus.Butyrivibrio.id.1993	rs12745648	A	G	0.170	0.037	6.48E-06	3482
genus.Barnesiella.id.944	rs28418786	G	C	-0.079	0.017	6.48E-06	13698
genus.LachnospiraceaeUCG008.id.11328	rs7677909	G	A	-0.078	0.017	6.47E-06	7016
genus.Turicibacter.id.2162	rs10845476	C	A	-0.095	0.021	6.47E-06	8949
genus.Ruminiclostridium9.id.11357	rs79082720	G	C	0.093	0.020	6.47E-06	16094
genus.Erysipelatoclostridium.id.11381	rs1346565	C	G	-0.066	0.015	6.47E-06	9662
genus..Eubacteriumhalliigroup.id.11338	rs61302912	C	T	-0.052	0.012	6.47E-06	16563
genus.Eggerthella.id.819	rs1711432	C	G	0.090	0.020	6.47E-06	5147
genus.Oscillospira.id.2064	rs62422654	T	C	0.090	0.020	6.47E-06	9769
genus.RuminococcaceaeUCG013.id.11370	rs4385846	T	G	0.060	0.013	6.46E-06	16772
genus.Anaerostipes.id.1991	rs1576146	G	A	-0.050	0.011	6.46E-06	16926
genus..Eubacteriumruminantiumgroup.id.11340	rs139758	T	C	-0.077	0.017	6.46E-06	7314
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973297	G	A	0.088	0.020	6.46E-06	5378
genus.Holdemania.id.2157	rs80134932	C	G	-0.132	0.029	6.46E-06	8432
genus..Eubacteriumxylanophilumgroup.id.14375	rs7867296	G	T	-0.093	0.020	6.46E-06	13305
genus.Marvinbryantia.id.2005	rs1320151	T	C	0.061	0.014	6.45E-06	11949
genus.Allisonella.id.2174	rs4742688	G	T	0.136	0.030	6.45E-06	3212
genus.Lachnoclostridium.id.11308	rs6106056	T	C	-0.050	0.011	6.45E-06	17842
genus.LachnospiraceaeNK4A136group.id.11319	rs159898	A	G	0.049	0.011	6.45E-06	17232
genus..Eubacteriumrectalegroup.id.14374	rs2884897	G	A	-0.129	0.029	6.44E-06	10813

genus.Bifidobacterium.id.436	rs10197646	G	A	0.073	0.015	6.44E-06	14778
genus.Olsenella.id.822	rs61090148	G	A	-0.105	0.023	6.44E-06	3739
genus.Butyrvibrio.id.1993	rs8064233	T	C	0.115	0.026	6.43E-06	3477
genus.Oxalobacter.id.2978	rs6445050	A	G	0.104	0.023	6.43E-06	4654
genus.LachnospiraceaeUCG010.id.11330	rs72894960	G	A	0.221	0.049	6.43E-06	4316
genus.Anaerostipes.id.1991	rs2769378	C	T	-0.050	0.011	6.43E-06	16926
genus..Ruminococcustorquesgroup.id.14377	rs2013977	T	C	0.048	0.011	6.43E-06	17798
genus.RuminococcaceaeUCG010.id.11367	rs73218807	A	G	-0.166	0.037	6.43E-06	6714
genus.Odoribacter.id.952	rs492325	T	C	0.053	0.012	6.43E-06	14683
genus..Ruminococcusnavusgroup.id.14376	rs10070691	C	T	-0.091	0.020	6.43E-06	6401
genus.Lachnospira.id.2004	rs12467938	G	A	0.050	0.011	6.43E-06	16486
genus.Alistipes.id.968	rs10950081	C	T	-0.049	0.011	6.43E-06	17571
genus.Subdoligranulum.id.2070	rs4695413	T	C	-0.052	0.012	6.42E-06	17591
genus.Prevotella7.id.11182	rs2918132	T	C	-0.115	0.025	6.42E-06	3318
genus.Allisonella.id.2174	rs898869	C	T	0.136	0.030	6.42E-06	3212
genus.Ruminococcus2.id.11374	rs58811417	G	T	0.071	0.016	6.42E-06	15338
genus.Bilophila.id.3170	rs10954637	T	G	0.063	0.014	6.42E-06	12856
genus.Intestinibacter.id.11345	rs7691215	G	T	0.067	0.015	6.42E-06	12292
genus.RikenellaceaeRC9gutgroup.id.11191	rs6590972	C	T	0.113	0.025	6.42E-06	3333
genus..Clostridiuminnocuumgroup.id.14397	rs9831905	C	T	-0.106	0.023	6.41E-06	4166
genus.Akkermansia.id.4037	rs4497215	C	T	0.064	0.014	6.41E-06	11864
genus..Eubacteriumbrachygroup.id.11296	rs1778331	T	C	0.104	0.023	6.41E-06	4000
genus.LachnospiraceaeFCS020group.id.11314	rs2902485	C	T	0.058	0.013	6.41E-06	13772
genus.LachnospiraceaeNK4A136group.id.11319	rs7831577	G	A	-0.070	0.015	6.41E-06	17219
genus.Enterorhabdus.id.820	rs10098492	C	T	0.132	0.029	6.41E-06	7361
genus.Anaerostipes.id.1991	rs1590736	A	G	-0.050	0.011	6.40E-06	16925
genus.Bifidobacterium.id.436	rs56302516	C	T	0.061	0.014	6.40E-06	14666
genus.Ruminiclostridium6.id.11356	rs2548459	T	C	0.055	0.012	6.40E-06	13377
genus.CandidatusSoleaferrea.id.11350	rs117412830	A	G	-0.122	0.028	6.40E-06	6104
genus.Faecalibacterium.id.2057	rs11776390	C	T	-0.078	0.017	6.40E-06	16718
genus.unknowngenus.id.2071	rs2065016	T	A	-0.060	0.013	6.39E-06	12619

genus.Enterorhabdus.id.820	rs73331717	T	C	0.258	0.055	6.39E-06	3109
genus.Erysipelatoclostridium.id.11381	rs9590927	A	G	-0.065	0.014	6.39E-06	9782
genus..Eubacteriumruminantiumgroup.id.11340	rs6676699	T	G	-0.089	0.020	6.38E-06	7708
genus.Turicibacter.id.2162	rs8073198	G	T	0.099	0.022	6.38E-06	8949
genus.Butyrvibrio.id.1993	rs11768123	T	C	0.162	0.035	6.38E-06	3479
genus.Intestinimonas.id.2062	rs17067892	T	C	0.107	0.025	6.38E-06	11544
genus.Parasutterella.id.2892	rs11058428	C	T	-0.073	0.016	6.38E-06	11386
genus.Streptococcus.id.1853	rs1518775	G	T	-0.050	0.011	6.38E-06	16385
genus.Intestinibacter.id.11345	rs472722	T	C	-0.133	0.029	6.37E-06	10812
genus.Intestinibacter.id.11345	rs513164	A	G	-0.133	0.029	6.37E-06	10812
genus.Turicibacter.id.2162	rs10852603	T	C	-0.073	0.016	6.37E-06	8947
genus.Gordonibacter.id.821	rs16955299	A	G	-0.196	0.043	6.37E-06	3572
genus.Lactococcus.id.1851	rs4806169	C	T	0.111	0.025	6.37E-06	4057
genus.RuminococcaceaeUCG003.id.11361	rs16908686	C	T	-0.060	0.013	6.37E-06	14411
genus..Ruminococcusgnavusgroup.id.14376	rs11587400	C	T	0.086	0.019	6.37E-06	6401
genus.Parasutterella.id.2892	rs11718634	C	T	-0.067	0.015	6.37E-06	11385
genus.Butyricimonas.id.945	rs12458763	C	A	0.122	0.027	6.37E-06	10383
genus.Streptococcus.id.1853	rs9858426	A	G	0.105	0.023	6.36E-06	15220
genus.Allisonella.id.2174	rs62557462	T	C	0.136	0.030	6.36E-06	3212
genus.Adlercreutzia.id.812	rs1046175	G	C	0.113	0.026	6.36E-06	8051
genus.unknowngenus.id.2071	rs12881583	T	C	-0.060	0.013	6.35E-06	12619
genus.Eggerthella.id.819	rs2292733	T	A	0.095	0.021	6.35E-06	5147
genus..Eubacteriumoxidoreducensgroup.id.11339	rs12117558	G	A	0.089	0.020	6.35E-06	5378
genus.CandidatusSoleaferrea.id.11350	rs7767882	C	A	-0.122	0.028	6.35E-06	6145
genus.Butyrvibrio.id.1993	rs240954	A	G	-0.110	0.024	6.35E-06	3482
genus.FamilyXIIIUCG001.id.11294	rs62414798	T	G	-0.060	0.013	6.35E-06	12749
genus..Eubacteriumxylanophilumgroup.id.14375	rs6426744	A	G	0.059	0.013	6.34E-06	12930
genus.Intestinibacter.id.11345	rs7041183	G	A	-0.102	0.023	6.34E-06	12303
genus..Ruminococcusgavreuiiigroup.id.11342	rs12463876	T	C	0.059	0.013	6.34E-06	13372
genus.LachnospiraceaeUCG008.id.11328	rs61944774	G	A	0.180	0.039	6.34E-06	6000
genus..Eubacteriumrectalegroup.id.14374	rs7523423	C	T	0.049	0.011	6.34E-06	17351

genus..Clostridiuminnocuumgroup.id.14397	rs11878088	T	C	0.146	0.032	6.34E-06	4166
genus.Actinomyces.id.423	rs35011108	G	A	0.233	0.051	6.34E-06	3515
genus.Ruminiclostridium9.id.11357	rs10936145	A	G	-0.059	0.013	6.34E-06	16725
genus.Bilophila.id.3170	rs2728491	T	G	-0.063	0.014	6.33E-06	12856
genus..Eubacteriumrectalegroup.id.14374	rs2175593	G	A	0.049	0.011	6.33E-06	17351
genus.Eggerthella.id.819	rs2509017	C	T	0.090	0.020	6.32E-06	5147
genus..Eubacteriumoxidoreducensgroup.id.11339	rs62051905	G	A	0.208	0.046	6.32E-06	4186
genus.LachnospiraceaeNK4A136group.id.11319	rs61076771	T	G	-0.053	0.011	6.32E-06	17236
genus.Akkermansia.id.4037	rs61779207	A	G	-0.076	0.017	6.32E-06	11590
genus..Eubacteriumeligensgroup.id.14372	rs16868806	C	G	0.102	0.023	6.32E-06	12891
genus.Subdoligranulum.id.2070	rs17122480	C	T	-0.050	0.011	6.32E-06	17589
genus.LachnospiraceaeFCS020group.id.11314	rs9829411	T	C	0.055	0.012	6.32E-06	13772
genus.Lachnoclostridium.id.11308	rs1031599	T	G	-0.079	0.018	6.31E-06	17398
genus.Ruminiclostridium5.id.11355	rs4934687	T	A	-0.052	0.012	6.31E-06	17389
genus.Eisenbergiella.id.11304	rs113812270	C	T	0.131	0.030	6.31E-06	5460
genus.Sellimonas.id.14369	rs2570253	G	C	0.114	0.025	6.31E-06	3154
genus.Coprococcus2.id.11302	rs9426473	G	A	0.073	0.016	6.31E-06	11486
genus.Eggerthella.id.819	rs1784433	C	T	0.090	0.020	6.31E-06	5147
genus.LachnospiraceaeUCG004.id.11324	rs2726805	G	A	0.055	0.012	6.30E-06	14466
genus.RuminococcaceaeUCG002.id.11360	rs56030423	A	G	-0.098	0.022	6.30E-06	14937
genus.Allisonella.id.2174	rs10817504	A	G	0.137	0.030	6.30E-06	3212
genus.LachnospiraceaeNK4A136group.id.11319	rs160108	C	T	0.049	0.011	6.30E-06	17232
genus.RuminococcaceaeUCG013.id.11370	rs17524593	G	T	0.068	0.015	6.30E-06	16470
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2939706	T	A	0.088	0.020	6.30E-06	5378
genus.Intestinibacter.id.11345	rs9313841	T	C	0.087	0.020	6.29E-06	12300
genus.RikenellaceaeRC9gutgroup.id.11191	rs12501673	G	A	0.116	0.026	6.29E-06	3334
genus.Oscillibacter.id.2063	rs2748935	T	C	0.068	0.015	6.29E-06	8928
genus.Senegalimassilia.id.11160	rs80175780	C	T	0.078	0.017	6.29E-06	6923
genus.Lactococcus.id.1851	rs17168302	A	G	0.192	0.042	6.29E-06	4023
genus.Alistipes.id.968	rs62476323	C	A	-0.049	0.011	6.29E-06	17569
genus.Oscillibacter.id.2063	rs73205330	T	A	-0.082	0.018	6.29E-06	8528

genus.Oscillospira.id.2064	rs8082421	G	A	0.071	0.016	6.29E-06	10183
genus.Alistipes.id.968	rs12539972	G	C	-0.049	0.011	6.29E-06	17552
genus.LachnospiraceaeUCG004.id.11324	rs233486	G	A	-0.080	0.018	6.28E-06	13710
genus.Anaerostipes.id.1991	rs10787582	C	T	-0.050	0.011	6.28E-06	16925
genus.LachnospiraceaeUCG004.id.11324	rs11621041	C	A	0.057	0.013	6.28E-06	14463
genus.Adlercreutzia.id.812	rs11663349	A	G	-0.131	0.029	6.27E-06	7929
genus.Allisonella.id.2174	rs13301045	A	G	0.136	0.030	6.27E-06	3212
genus.Lactobacillus.id.1837	rs12547259	A	G	-0.078	0.017	6.27E-06	6957
genus.Actinomyces.id.423	rs2715439	T	C	0.075	0.016	6.27E-06	7468
genus.Bifidobacterium.id.436	rs7574366	G	A	0.095	0.020	6.27E-06	14778
genus.Oscillibacter.id.2063	rs4981910	T	G	-0.069	0.015	6.27E-06	8926
genus.Bifidobacterium.id.436	rs12465599	G	A	0.054	0.012	6.27E-06	14778
genus.Turicibacter.id.2162	rs11054677	T	C	-0.101	0.023	6.27E-06	8928
genus.CandidatusSoleaferrea.id.11350	rs6426133	G	A	0.104	0.023	6.27E-06	6145
genus.RuminococcaceaeUCG002.id.11360	rs28620610	A	G	-0.051	0.011	6.26E-06	16988
genus.Turicibacter.id.2162	rs4984326	G	A	0.071	0.016	6.26E-06	8949
genus.Copro bacter.id.949	rs189356	A	G	0.078	0.017	6.26E-06	6763
genus.Butyri vibrio.id.1993	rs9899333	T	C	0.116	0.026	6.26E-06	3472
genus.Anaerostipes.id.1991	rs10885752	A	C	-0.050	0.011	6.26E-06	16925
genus.Intestinibacter.id.11345	rs9348442	T	C	0.099	0.022	6.26E-06	12303
genus.Copro coccus3.id.11303	rs13393804	T	C	-0.069	0.015	6.26E-06	15834
genus.Oscillospira.id.2064	rs2323504	G	A	0.071	0.016	6.26E-06	10193
genus.Victivallis.id.2256	rs1358962	C	G	0.112	0.025	6.26E-06	3264
genus.Peptococcus.id.2037	rs61995091	T	G	0.108	0.024	6.26E-06	5482
genus.FamilyXIIIAD3011group.id.11293	rs3012196	G	C	-0.055	0.012	6.25E-06	14191
genus.Ruminococcusgnavusgroup.id.14376	rs16886724	C	A	-0.091	0.020	6.25E-06	6401
genus.Ruminococcusgnavusgroup.id.14376	rs67308382	A	G	-0.091	0.020	6.25E-06	6401
genus.ChristensenellaceaeR.7group.id.11283	rs1971264	G	A	0.124	0.027	6.25E-06	12605
genus.Oscillibacter.id.2063	rs9295776	C	T	-0.068	0.015	6.25E-06	8887
genus.unknowngenus.id.2001	rs7334707	G	T	0.119	0.027	6.25E-06	9782
genus.Anaerostipes.id.1991	rs11197301	A	G	-0.050	0.011	6.25E-06	16926

genus.Parasutterella.id.2892	rs740356	A	G	-0.073	0.016	6.25E-06	11386
genus.Fusicatenibacter.id.11305	rs11248242	G	C	0.051	0.011	6.25E-06	17384
genus.Sellimonas.id.14369	rs2570260	A	G	0.114	0.025	6.24E-06	3153
genus.LachnospiraceaeFCS020group.id.11314	rs9828890	T	C	0.055	0.012	6.24E-06	13772
genus.RuminococcaceaeUCG004.id.11362	rs2045819	C	T	0.082	0.018	6.23E-06	9116
genus.FamilyXIIIUCG001.id.11294	rs17800625	C	G	-0.060	0.013	6.23E-06	12750
genus.Blautia.id.1992	rs67597570	T	C	0.055	0.012	6.23E-06	18276
genus.Parasutterella.id.2892	rs11715853	A	G	-0.066	0.015	6.23E-06	11386
genus.Oscillibacter.id.2063	rs2857265	G	A	0.095	0.021	6.23E-06	8930
genus.Ruminiclostridium9.id.11357	rs11718554	A	G	-0.053	0.012	6.23E-06	16725
genus..Eubacteriumeligensgroup.id.14372	rs7195470	A	G	0.058	0.013	6.22E-06	14327
genus.Senegalimassilia.id.11160	rs62556649	A	C	0.078	0.017	6.22E-06	6923
genus.Anaerostipes.id.1991	rs10509992	A	G	-0.050	0.011	6.22E-06	16925
genus..Eubacteriumrectalegroup.id.14374	rs10892089	G	C	-0.064	0.014	6.22E-06	17351
genus.Lactococcus.id.1851	rs12623380	T	C	-0.170	0.039	6.22E-06	4017
genus.Ruminiclostridium9.id.11357	rs1017203	T	A	-0.090	0.020	6.21E-06	16723
genus.FamilyXIIIUCG001.id.11294	rs62414800	C	A	-0.060	0.013	6.21E-06	12749
genus.FamilyXIIIUCG001.id.11294	rs13050307	A	G	-0.075	0.017	6.21E-06	12751
genus.Oscillibacter.id.2063	rs6901560	G	C	0.086	0.019	6.21E-06	8525
genus.Ruminiclostridium5.id.11355	rs2801960	G	C	0.052	0.012	6.21E-06	17387
genus.Erysipelatoclostridium.id.11381	rs10868677	C	T	-0.065	0.014	6.21E-06	9783
genus..Ruminococcustorquesgroup.id.14377	rs4792526	T	C	0.048	0.011	6.21E-06	17796
genus.Tyzzzerella3.id.11335	rs1527620	C	T	0.123	0.029	6.21E-06	5396
genus.Peptococcus.id.2037	rs113946406	A	G	0.109	0.024	6.20E-06	5482
genus.Ruminiclostridium9.id.11357	rs1369560	T	A	-0.053	0.012	6.20E-06	16725
genus.Bifidobacterium.id.436	rs6746633	G	A	0.096	0.020	6.19E-06	14778
genus.RuminococcaceaeNK4A214group.id.11358	rs669271	A	C	-0.055	0.012	6.19E-06	14822
genus.Blautia.id.1992	rs3005511	G	A	0.050	0.011	6.19E-06	18276
genus.RikenellaceaeRC9gutgroup.id.11191	rs7193937	C	G	0.124	0.028	6.19E-06	3220
genus.Dorea.id.1997	rs1437568	G	T	0.051	0.011	6.19E-06	17610
genus.Terrisporobacter.id.11348	rs11086039	T	C	-0.080	0.018	6.19E-06	6637

genus.Senegalimassilia.id.11160	rs11788122	C	T	0.078	0.017	6.19E-06	6923
genus.unknowngenus.id.1868	rs73170163	G	A	0.076	0.016	6.19E-06	10292
genus.Tyzzereella3.id.11335	rs2326673	C	A	-0.126	0.028	6.18E-06	5384
genus.Erysipelatoclostridium.id.11381	rs153017	A	G	-0.072	0.016	6.18E-06	9781
genus.Lactococcus.id.1851	rs6674304	T	C	0.201	0.044	6.18E-06	3869
genus.Marvinbryantia.id.2005	rs7202978	C	T	-0.060	0.013	6.18E-06	11950
genus.Allisonella.id.2174	rs593213	A	G	-0.173	0.040	6.18E-06	3212
genus.Tyzzereella3.id.11335	rs112102233	G	A	-0.216	0.048	6.18E-06	3857
genus.Anaerostipes.id.1991	rs11197324	G	A	-0.050	0.011	6.18E-06	16925
genus.Lachnoclostridium.id.11308	rs6035276	T	C	-0.050	0.011	6.17E-06	17832
genus.RuminococcaceaeUCG004.id.11362	rs7615599	C	G	0.092	0.020	6.17E-06	9502
genus.Peptococcus.id.2037	rs1383810	T	C	0.127	0.029	6.17E-06	5657
genus.Eubacteriumruminantiumgroup.id.11340	rs2418654	T	C	-0.075	0.017	6.17E-06	7314
genus.LachnospiraceaeNC2004group.id.11316	rs1928659	C	T	0.103	0.023	6.17E-06	5516
genus.Eggerthella.id.819	rs2509016	A	T	0.090	0.020	6.17E-06	5147
genus.Ruminococcustorquesgroup.id.14377	rs12432441	T	A	0.072	0.015	6.17E-06	17353
genus.Marvinbryantia.id.2005	rs4346511	T	G	0.061	0.014	6.16E-06	11949
genus.Marvinbryantia.id.2005	rs2863373	G	T	0.061	0.014	6.16E-06	11949
genus.Marvinbryantia.id.2005	rs2863374	G	A	0.061	0.014	6.16E-06	11949
genus.CandidatusSoleaferrea.id.11350	rs6568555	A	G	-0.123	0.028	6.16E-06	6145
genus.Bacteroides.id.918	rs480694	T	A	-0.059	0.013	6.16E-06	17707
genus.Eisenbergiella.id.11304	rs8025430	C	T	0.089	0.020	6.16E-06	5583
genus.Butyricimonas.id.945	rs929839	G	T	0.112	0.025	6.16E-06	10123
genus.LachnospiraceaeFCS020group.id.11314	rs9821978	T	C	0.055	0.012	6.16E-06	13772
genus.Eubacteriumhalliigroup.id.11338	rs76496924	T	A	0.154	0.035	6.15E-06	7712
genus.Methanobrevibacter.id.123	rs41288287	C	T	0.207	0.045	6.15E-06	3390
genus.Ruminiclostridium6.id.11356	rs1452471	T	C	0.061	0.014	6.15E-06	13380
genus.Eggerthella.id.819	rs4985718	G	A	0.114	0.026	6.14E-06	4906
genus.Alistipes.id.968	rs1822115	T	G	-0.049	0.011	6.14E-06	17571
genus.RikenellaceaeRC9gutgroup.id.11191	rs386756927	C	T	0.113	0.025	6.14E-06	3333
genus.Parasutterella.id.2892	rs7959030	T	C	-0.073	0.016	6.14E-06	11385

genus.Anaerotruncus.id.2054	rs11018566	G	A	-0.156	0.037	6.14E-06	6278
genus.Collinsella.id.815	rs75672793	G	A	-0.109	0.024	6.14E-06	12601
genus.LachnospiraceaeNK4A136group.id.11319	rs34212776	A	G	-0.053	0.011	6.13E-06	17233
genus.Eubacteriumhalliigroup.id.11338	rs1321623	A	G	0.060	0.013	6.13E-06	16568
genus.Coprococcus3.id.11303	rs13385714	C	T	-0.069	0.015	6.13E-06	15835
genus.Intestinibacter.id.11345	rs500668	A	G	-0.133	0.029	6.13E-06	10812
genus.Eisenbergiella.id.11304	rs969736	C	A	0.102	0.022	6.13E-06	5583
genus.Sellimonas.id.14369	rs553697	C	T	-0.154	0.034	6.13E-06	3047
genus.Erysipelatoclostridium.id.11381	rs34528142	G	C	-0.088	0.020	6.13E-06	9604
genus.Anaerotruncus.id.2054	rs12056802	G	C	0.077	0.018	6.13E-06	16010
genus.Sellimonas.id.14369	rs2623262	T	C	0.114	0.025	6.13E-06	3154
genus.RuminococcaceaeUCG004.id.11362	rs3800154	C	A	-0.080	0.018	6.12E-06	9406
genus.LachnospiraceaeUCG008.id.11328	rs113533446	T	C	-0.110	0.024	6.11E-06	7017
genus.Subdoligranulum.id.2070	rs7723123	C	T	-0.080	0.017	6.11E-06	17591
genus.Eubacteriumventriosumgroup.id.11341	rs66746423	T	C	0.075	0.016	6.11E-06	14578
genus.Sellimonas.id.14369	rs1867984	T	G	0.114	0.025	6.11E-06	3154
genus.Anaerostipes.id.1991	rs2804224	G	C	-0.050	0.011	6.11E-06	16926
genus.Ruminiclostridium9.id.11357	rs4289260	C	A	0.058	0.013	6.11E-06	16650
genus.Coprococcus1.id.11301	rs7761439	T	C	-0.050	0.011	6.11E-06	16732
genus.RuminococcaceaeUCG003.id.11361	rs11666792	G	A	0.054	0.012	6.11E-06	14320
genus.Prevootella9.id.11183	rs9613013	A	G	0.092	0.020	6.10E-06	9790
genus.Copro bacter.id.949	rs12684609	C	T	0.101	0.022	6.10E-06	6364
genus.Senegalimassilia.id.11160	rs10221578	A	G	0.078	0.017	6.10E-06	6923
genus.Blautia.id.1992	rs112309597	A	T	0.056	0.012	6.10E-06	18162
genus.Tyzzere lla3.id.11335	rs1405818	A	G	0.129	0.030	6.10E-06	5396
genus.Anaerotruncus.id.2054	rs12528051	T	A	0.050	0.011	6.10E-06	16564
genus.Methanobrevibacter.id.123	rs9594528	A	G	0.207	0.045	6.09E-06	3390
genus.Marvinbryantia.id.2005	rs9851939	C	G	0.062	0.014	6.09E-06	11950
genus.Subdoligranulum.id.2070	rs2572356	A	G	-0.053	0.012	6.09E-06	17165
genus.Allisonella.id.2174	rs76904847	A	G	0.149	0.033	6.09E-06	3182
genus.Parabacteroides.id.954	rs2093835	T	G	-0.064	0.014	6.09E-06	17305

genus.LachnospiraceaeUCG001.id.11321	rs4981345	C	T	-0.068	0.015	6.09E-06	9961
genus.Parasutterella.id.2892	rs62273900	G	C	0.228	0.050	6.08E-06	3691
genus.RuminococcaceaeNK4A214group.id.11358	rs1374387	T	G	-0.052	0.012	6.08E-06	15288
genus.Allisonella.id.2174	rs35737497	G	A	0.136	0.030	6.08E-06	3212
genus.Parasutterella.id.2892	rs6811436	T	C	0.060	0.013	6.07E-06	11385
genus..Ruminococcustorquesgroup.id.14377	rs77034621	G	T	-0.152	0.034	6.07E-06	8567
genus..Ruminococcustorquesgroup.id.14377	rs2323451	C	G	0.048	0.011	6.07E-06	17798
genus.Blautia.id.1992	rs67313756	G	C	0.053	0.012	6.07E-06	18274
genus.Allisonella.id.2174	rs16919506	C	T	0.136	0.030	6.07E-06	3212
genus.Parasutterella.id.2892	rs3860462	C	T	0.060	0.013	6.06E-06	11383
genus.Ruminococcus2.id.11374	rs4386032	C	T	-0.056	0.012	6.06E-06	15337
genus.Parasutterella.id.2892	rs7691912	T	C	0.060	0.013	6.06E-06	11384
genus.Lactococcus.id.1851	rs3960410	A	G	0.111	0.025	6.06E-06	4057
genus.Odoribacter.id.952	rs6856150	A	G	0.088	0.019	6.06E-06	14597
genus.Veillonella.id.2198	rs34085484	T	C	0.088	0.019	6.06E-06	9290
genus.Methanobrevibacter.id.123	rs1869500	A	C	-0.110	0.024	6.05E-06	3581
genus.Allisonella.id.2174	rs35534888	C	T	0.136	0.030	6.05E-06	3212
genus.RuminococcaceaeUCG004.id.11362	rs12126530	C	T	0.125	0.027	6.05E-06	8938
genus.Lachnospira.id.2004	rs1441493	C	A	-0.058	0.013	6.05E-06	16490
genus.RuminococcaceaeUCG014.id.11371	rs62478832	A	T	-0.058	0.013	6.04E-06	14331
genus.Erysipelatoclostridium.id.11381	rs16936671	T	C	-0.097	0.022	6.04E-06	9488
genus.Holdemania.id.2157	rs80149660	T	C	-0.233	0.052	6.04E-06	3283
genus.LachnospiraceaeNC2004group.id.11316	rs12863463	A	G	-0.156	0.035	6.04E-06	5516
genus.Slackia.id.825	rs180884	A	C	0.084	0.019	6.04E-06	6063
genus.Senegalimassilia.id.11160	rs13383270	C	G	0.077	0.017	6.04E-06	6923
genus.Eggerthella.id.819	rs7791112	A	G	-0.091	0.020	6.04E-06	5147
genus.Coprococcus1.id.11301	rs12193787	T	C	-0.050	0.011	6.03E-06	16732
genus.Intestinibacter.id.11345	rs509873	G	A	-0.133	0.029	6.03E-06	10812
genus.Preotella9.id.11183	rs1915406	C	T	-0.069	0.015	6.03E-06	10271
genus.Anaerostipes.id.1991	rs7095798	C	T	-0.050	0.011	6.03E-06	16925
genus.Odoribacter.id.952	rs4793970	G	A	-0.058	0.013	6.03E-06	14687

genus.Oscillibacter.id.2063	rs12417956	G	C	0.079	0.017	6.03E-06	8928
genus.Marvinbryantia.id.2005	rs2815603	T	C	-0.073	0.016	6.03E-06	11612
genus.Parasutterella.id.2892	rs11058441	C	T	-0.074	0.016	6.02E-06	11385
genus..Ruminococcusgnavusgroup.id.14376	rs67084241	G	A	-0.091	0.020	6.02E-06	6399
genus.Intestinibacter.id.11345	rs10965050	G	T	-0.103	0.023	6.02E-06	12303
genus.Bifidobacterium.id.436	rs150183636	C	T	0.096	0.020	6.02E-06	14778
genus.LachnospiraceaeUCG008.id.11328	rs73861213	G	T	-0.112	0.025	6.02E-06	6577
genus.Sellimonas.id.14369	rs1863429	C	T	-0.115	0.025	6.02E-06	3154
genus.Allisonella.id.2174	rs34905303	T	C	0.137	0.030	6.01E-06	3212
genus.Allisonella.id.2174	rs35778718	A	C	0.137	0.030	6.01E-06	3212
genus.Subdoligranulum.id.2070	rs17122503	G	A	-0.050	0.011	6.01E-06	17591
genus.Anaerotruncus.id.2054	rs8019932	T	G	0.053	0.012	6.01E-06	16548
genus.Intestinibacter.id.11345	rs499573	T	C	-0.133	0.029	6.01E-06	10812
genus.Intestinibacter.id.11345	rs472889	G	A	-0.133	0.029	6.01E-06	10812
genus.Ruminiclostridium9.id.11357	rs7624184	A	G	-0.053	0.012	6.01E-06	16724
genus.LachnospiraceaeFCS020group.id.11314	rs425629	A	C	0.121	0.026	6.00E-06	12465
genus.Dorea.id.1997	rs56310278	C	T	0.057	0.012	6.00E-06	17603
genus.RuminococcaceaeUCG004.id.11362	rs114399077	C	G	0.127	0.028	6.00E-06	8801
genus.FamilyXIIIAD3011group.id.11293	rs113394511	A	T	-0.132	0.029	5.99E-06	10963
genus.Turicibacter.id.2162	rs147551457	A	G	0.098	0.022	5.99E-06	8928
genus..Ruminococcustorquesgroup.id.14377	rs7212494	G	C	0.048	0.011	5.99E-06	17798
genus.Prevotella7.id.11182	rs62115051	G	A	0.139	0.032	5.99E-06	3489
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs10444197	G	A	-0.051	0.011	5.98E-06	17380
genus.Olsenella.id.822	rs11736534	G	A	-0.105	0.023	5.98E-06	3739
genus.Lactobacillus.id.1837	rs1434764	G	T	-0.078	0.017	5.98E-06	6957
genus.Paraprevotella.id.962	rs10501247	C	G	-0.136	0.029	5.98E-06	7179
genus.Eggerthella.id.819	rs9898995	G	A	0.114	0.026	5.98E-06	4906
genus.Holdemania.id.2157	rs12855084	T	A	-0.131	0.029	5.98E-06	8432
genus.unknowngenus.id.2755	rs72714477	A	T	0.115	0.026	5.97E-06	8457
genus.Lachnoclostridium.id.11308	rs1997204	C	T	-0.108	0.024	5.97E-06	14138
genus.LachnospiraceaeUCG001.id.11321	rs11790553	G	T	-0.065	0.014	5.97E-06	10148

genus.Clostridiumsensustricto1.id.1873	rs531166	C	T	-0.074	0.017	5.97E-06	14121
genus.Holdmania.id.2157	rs9529719	C	T	0.074	0.016	5.97E-06	9107
genus.LachnospiraceaeNK4A136group.id.11319	rs307182	T	A	0.049	0.011	5.97E-06	17229
genus.Lachnospira.id.2004	rs5030014	G	C	0.051	0.011	5.96E-06	16499
genus.Clostridiuminnocuumgroup.id.14397	rs72864816	G	T	0.150	0.033	5.96E-06	4164
genus.Ruminococcus1.id.11373	rs2012019	T	C	-0.050	0.011	5.96E-06	16607
genus.Coprobacter.id.949	rs77575394	C	T	0.246	0.054	5.96E-06	3083
genus.Paraprevotella.id.962	rs7240324	G	T	-0.102	0.023	5.96E-06	6900
genus.Senegalimassilia.id.11160	rs60364969	C	T	-0.080	0.018	5.96E-06	6923
genus.Anaerostipes.id.1991	rs2804207	C	T	-0.050	0.011	5.95E-06	16926
genus.Paraprevotella.id.962	rs7221230	T	C	-0.080	0.017	5.95E-06	7178
genus.CandidatusSoleaferrea.id.11350	rs9973954	G	A	0.089	0.020	5.95E-06	6145
genus.Turicibacter.id.2162	rs41408545	G	A	0.100	0.022	5.95E-06	8927
genus.Butyricimonas.id.945	rs7093802	G	C	0.063	0.014	5.94E-06	10737
genus.Butyrivibrio.id.1993	rs17539197	G	C	-0.109	0.024	5.94E-06	3482
genus.Butyricoccus.id.2055	rs62478070	G	T	0.224	0.049	5.94E-06	4007
genus.Roseburia.id.2012	rs2943023	C	T	0.049	0.011	5.93E-06	17851
genus.Dialister.id.2183	rs2435610	C	A	0.065	0.014	5.93E-06	11984
genus.RuminococcaceaeUCG004.id.11362	rs10127706	T	C	0.082	0.018	5.93E-06	9116
genus.Slackia.id.825	rs71815	T	C	0.084	0.019	5.93E-06	6063
genus.RikenellaceaeRC9gutgroup.id.11191	rs2292730	G	A	0.113	0.025	5.92E-06	3334
genus.Ruminiclostridium9.id.11357	rs726404	C	T	0.058	0.013	5.92E-06	16650
genus.LachnospiraceaeNK4A136group.id.11319	rs35965011	T	C	-0.053	0.011	5.92E-06	17233
genus.Ruminiclostridium9.id.11357	rs6047486	G	A	0.058	0.013	5.92E-06	16650
genus.Streptococcus.id.1853	rs6538957	T	C	-0.084	0.018	5.92E-06	15743
genus.Parasutterella.id.2892	rs7311004	C	T	-0.062	0.014	5.92E-06	11384
genus.Actinomyces.id.423	rs7915461	C	T	0.188	0.040	5.92E-06	5282
genus.Ruminiclostridium6.id.11356	rs594106	C	G	-0.146	0.033	5.92E-06	6879
genus.Anaerostipes.id.1991	rs11197344	A	C	-0.050	0.011	5.92E-06	16925
genus.Butyricimonas.id.945	rs1872571	C	T	0.064	0.014	5.92E-06	10737
genus.LachnospiraceaeFCS020group.id.11314	rs6775964	A	G	0.055	0.012	5.91E-06	13772

genus.Dialister.id.2183	rs11071887	C	T	0.066	0.015	5.91E-06	11989
genus.RuminococcaceaeUCG011.id.11368	rs12724778	C	G	-0.114	0.025	5.91E-06	3632
genus.FamilyXIIIAD3011group.id.11293	rs61914199	A	T	-0.084	0.019	5.91E-06	13631
genus.FamilyXIIIAD3011group.id.11293	rs11126423	T	C	0.090	0.020	5.91E-06	13735
genus.Prevotella9.id.11183	rs2672264	G	A	-0.068	0.015	5.91E-06	10264
genus.Escherichia.Shigella.id.3504	rs7502686	C	G	-0.136	0.030	5.90E-06	9990
genus.Ruminococcus1.id.11373	rs7584151	A	G	0.051	0.011	5.90E-06	16588
genus.Roseburia.id.2012	rs329182	C	T	0.069	0.015	5.90E-06	17854
genus.Olsenella.id.822	rs12564117	T	C	0.108	0.024	5.90E-06	3739
genus.Butyricimonas.id.945	rs2924726	G	A	0.067	0.015	5.90E-06	10634
genus.Ruminiclostridium5.id.11355	rs8053158	G	A	-0.074	0.016	5.90E-06	17397
genus.LachnospiraceaeFCS020group.id.11314	rs12489461	A	G	0.055	0.012	5.90E-06	13772
genus.Holdemania.id.2157	rs55888180	G	C	0.129	0.028	5.89E-06	8464
genus.Sutterella.id.2896	rs1581853	G	A	-0.058	0.013	5.89E-06	12843
genus.RuminococcaceaeUCG003.id.11361	rs78048325	A	G	-0.061	0.013	5.89E-06	14412
genus.Erysipelatoclostridium.id.11381	rs66862016	G	A	-0.106	0.024	5.89E-06	9368
genus.Catenibacterium.id.2153	rs212388	T	C	-0.116	0.025	5.89E-06	3239
genus.Anaerostipes.id.1991	rs6823685	A	C	-0.049	0.011	5.88E-06	16921
genus.Parasutterella.id.2892	rs7958917	T	C	-0.073	0.016	5.88E-06	11385
genus.Parasutterella.id.2892	rs62273907	G	A	0.229	0.050	5.88E-06	3691
genus.Streptococcus.id.1853	rs2952251	G	A	-0.058	0.013	5.88E-06	16372
genus.Enterorhabdus.id.820	rs77655283	A	G	0.133	0.030	5.88E-06	7494
genus.Allisonella.id.2174	rs4743083	A	C	0.137	0.030	5.88E-06	3212
genus.Streptococcus.id.1853	rs6949835	C	T	-0.065	0.014	5.88E-06	16386
genus.Romboutsia.id.11347	rs34302036	G	A	0.055	0.012	5.88E-06	14185
genus.LachnospiraceaeUCG001.id.11321	rs62496417	G	T	-0.075	0.017	5.88E-06	10150
genus.Escherichia.Shigella.id.3504	rs11706043	A	T	0.076	0.016	5.87E-06	12001
genus.Ruminococcustorquesgroup.id.14377	rs60603763	G	C	0.124	0.028	5.87E-06	11700
genus.CandidatusSoleaferrea.id.11350	rs12374597	A	G	-0.122	0.028	5.87E-06	6145
genus.Fusicatenibacter.id.11305	rs167879	T	C	-0.066	0.015	5.87E-06	16542
genus.RuminococcaceaeUCG004.id.11362	rs151198757	T	C	0.127	0.028	5.87E-06	8801

genus..Ruminococcusgavreuiiigroup.id.11342	rs2097532	T	C	0.058	0.013	5.87E-06	13382
genus..Eubacteriumbrachygroup.id.11296	rs7904900	G	T	-0.168	0.037	5.87E-06	3987
genus.Butyrivibrio.id.1993	rs240974	T	C	-0.110	0.024	5.87E-06	3481
genus.Bacteroides.id.918	rs66710942	T	C	0.049	0.011	5.86E-06	17821
genus.Intestinibacter.id.11345	rs4698729	C	T	0.066	0.014	5.86E-06	12303
genus.Allisonella.id.2174	rs12553259	A	C	0.136	0.030	5.86E-06	3212
genus.Alistipes.id.968	rs1837664	A	C	-0.049	0.011	5.85E-06	17570
genus.Blautia.id.1992	rs12669850	C	A	0.055	0.012	5.85E-06	18269
genus.Lachnoclostridium.id.11308	rs6112331	T	A	-0.048	0.011	5.85E-06	17841
genus.LachnospiraceaeUCG008.id.11328	rs10741778	A	G	-0.088	0.019	5.85E-06	7017
genus.Bifidobacterium.id.436	rs309113	C	A	0.071	0.016	5.85E-06	14777
genus.Sellimonas.id.14369	rs1811326	T	C	0.114	0.025	5.85E-06	3154
genus.Parasutterella.id.2892	rs898888	A	G	0.060	0.013	5.85E-06	11383
genus.Victivallis.id.2256	rs7761587	A	G	0.112	0.025	5.85E-06	3267
genus.Blautia.id.1992	rs55821618	G	A	0.055	0.012	5.85E-06	18274
genus.Lactobacillus.id.1837	rs78414635	T	G	-0.172	0.038	5.85E-06	5325
genus.RuminococcaceaeUCG010.id.11367	rs592858	C	A	-0.058	0.013	5.85E-06	12415
genus.LachnospiraceaeNC2004group.id.11316	rs12732301	A	G	0.112	0.025	5.84E-06	6226
genus.RuminococcaceaeUCG011.id.11368	rs6789741	G	T	0.132	0.029	5.84E-06	3632
genus.Anaerostipes.id.1991	rs7823228	C	G	-0.062	0.014	5.84E-06	16445
genus.Parasutterella.id.2892	rs6825923	C	G	0.060	0.013	5.84E-06	11385
genus.LachnospiraceaeFCS020group.id.11314	rs9837621	A	G	0.055	0.012	5.84E-06	13772
genus.Dialister.id.2183	rs4747450	A	C	0.067	0.015	5.84E-06	11987
genus..Clostridiuminnocuumgroup.id.14397	rs57676887	T	C	0.147	0.032	5.84E-06	4166
genus.Sellimonas.id.14369	rs2436661	G	A	0.114	0.025	5.84E-06	3154
genus.LachnospiraceaeUCG008.id.11328	rs10766573	A	C	-0.109	0.024	5.84E-06	7017
genus.Coproccoccus3.id.11303	rs78686130	C	T	-0.056	0.012	5.84E-06	15472
genus.Coproccoccus2.id.11302	rs4376165	T	C	-0.062	0.014	5.83E-06	11009
genus.ErysipelotrichaceaeUCG003.id.11384	rs8053479	G	A	-0.084	0.019	5.83E-06	13813
genus.RuminococcaceaeUCG004.id.11362	rs78968459	G	A	0.103	0.023	5.83E-06	9116
genus.Bacteroides.id.918	rs7322219	T	C	0.052	0.012	5.83E-06	17821

genus.Ruminiclostridium6.id.11356	rs10495466	G	A	0.110	0.024	5.83E-06	12802
genus.Alistipes.id.968	rs7337526	C	T	0.074	0.017	5.83E-06	17571
genus.Ruminiclostridium9.id.11357	rs58891024	A	G	-0.053	0.012	5.83E-06	16725
genus.Prevotella9.id.11183	rs35790419	G	A	-0.137	0.030	5.83E-06	8341
genus.Lachnoclostridium.id.11308	rs1529368	G	A	-0.052	0.011	5.83E-06	17922
genus.Eubacteriumruminantiumgroup.id.11340	rs606120	G	A	0.083	0.018	5.83E-06	7263
genus.LachnospiraceaeNK4A136group.id.11319	rs12611395	G	A	-0.090	0.020	5.83E-06	16486
genus.Anaerostipes.id.1991	rs3858323	G	A	-0.051	0.011	5.83E-06	16925
genus.Clostridiumsensustricto1.id.1873	rs876740	C	T	0.055	0.012	5.83E-06	14085
genus.Victivallis.id.2256	rs9492886	T	C	0.112	0.025	5.83E-06	3265
genus.Lactococcus.id.1851	rs10425616	T	C	0.112	0.025	5.82E-06	4057
genus.Eubacteriumruminantiumgroup.id.11340	rs112375806	A	T	0.143	0.029	5.82E-06	7123
genus.Streptococcus.id.1853	rs6563952	C	G	0.083	0.018	5.82E-06	16387
genus.Allisonella.id.2174	rs62557463	G	C	0.136	0.030	5.82E-06	3212
genus.LachnospiraceaeNK4A136group.id.11319	rs3783321	T	G	-0.053	0.011	5.82E-06	17233
genus.Allisonella.id.2174	rs3747504	C	T	0.139	0.030	5.82E-06	3212
genus.LachnospiraceaeUCG008.id.11328	rs6808242	G	T	-0.101	0.022	5.81E-06	7017
genus.RuminococcaceaeUCG004.id.11362	rs1992964	A	G	0.077	0.017	5.81E-06	9502
genus.Subdoligranulum.id.2070	rs72695075	A	G	-0.051	0.011	5.81E-06	17573
genus.Victivallis.id.2256	rs12793955	G	T	-0.145	0.032	5.81E-06	3258
genus.RuminococcaceaeUCG004.id.11362	rs872501	A	G	0.116	0.026	5.81E-06	8473
genus.Ruminococcusgavreuiiigroup.id.11342	rs7620601	C	T	0.057	0.012	5.81E-06	13382
genus.Eubacteriumhalliigroup.id.11338	rs142387626	C	T	0.153	0.035	5.81E-06	7710
genus.Paraprevotella.id.962	rs55811511	A	C	-0.098	0.021	5.81E-06	7177
genus.Senegalimassilia.id.11160	rs61944227	T	C	0.079	0.017	5.80E-06	6923
genus.Allisonella.id.2174	rs10981800	C	G	0.137	0.030	5.80E-06	3212
genus.CandidatusSoleiferrea.id.11350	rs6494306	G	A	-0.097	0.021	5.80E-06	6145
genus.Butyrvibrio.id.1993	rs11584386	A	G	0.172	0.037	5.80E-06	3479
genus.Intestinibacter.id.11345	rs7026731	T	C	-0.102	0.023	5.80E-06	12303
genus.Ruminococcus2.id.11374	rs4400279	G	A	0.055	0.012	5.80E-06	15333
genus.Anaerostipes.id.1991	rs11812371	C	G	-0.051	0.011	5.80E-06	16924

genus..Eubacteriumoxidoreducensgroup.id.11339	rs12129908	A	C	0.089	0.020	5.80E-06	5377
genus.Streptococcus.id.1853	rs7973815	A	G	-0.084	0.018	5.79E-06	15743
genus.Butyricoccus.id.2055	rs12585793	C	T	-0.262	0.056	5.79E-06	3135
genus.Streptococcus.id.1853	rs7316765	G	A	-0.057	0.012	5.79E-06	16387
genus.RuminococcaceaeUCG011.id.11368	rs6799330	T	G	0.132	0.029	5.79E-06	3632
genus.Eggerthella.id.819	rs1784447	G	A	0.090	0.020	5.79E-06	5147
genus.Ruminiclostridium9.id.11357	rs9515633	T	C	0.069	0.015	5.79E-06	16725
genus.Ruminiclostridium5.id.11355	rs11061971	A	T	0.049	0.011	5.79E-06	17394
genus.Paraprevotella.id.962	rs12226783	T	G	-0.135	0.029	5.79E-06	7136
genus.RuminococcaceaeUCG003.id.11361	rs2523124	C	T	-0.055	0.012	5.78E-06	14409
genus.Victivallis.id.2256	rs3777494	G	A	0.112	0.025	5.78E-06	3265
genus.Alistipes.id.968	rs73180681	C	T	0.074	0.017	5.78E-06	17571
genus.Peptococcus.id.2037	rs8019363	T	C	0.107	0.024	5.78E-06	5483
genus.Peptococcus.id.2037	rs8019181	T	C	0.107	0.024	5.78E-06	5483
genus.Bifidobacterium.id.436	rs4957061	C	T	0.053	0.012	5.78E-06	14666
genus.Parasutterella.id.2892	rs225465	G	A	-0.065	0.014	5.78E-06	11385
genus.Dorea.id.1997	rs62583469	A	T	-0.063	0.014	5.78E-06	16819
genus.Sellimonas.id.14369	rs2554336	T	C	0.114	0.025	5.77E-06	3154
genus.LachnospiraceaeUCG004.id.11324	rs7629954	G	A	0.108	0.024	5.77E-06	12568
genus.Parasutterella.id.2892	rs7692363	T	C	0.061	0.013	5.77E-06	11384
genus.Butyrivibrio.id.1993	rs12529158	G	A	-0.110	0.024	5.77E-06	3481
genus.RuminococcaceaeUCG003.id.11361	rs485073	A	G	0.054	0.012	5.77E-06	14412
genus.Turicibacter.id.2162	rs7199484	A	G	-0.073	0.016	5.77E-06	8948
genus.Lachnospira.id.2004	rs13430519	T	C	0.050	0.011	5.77E-06	16486
genus.LachnospiraceaeFCS020group.id.11314	rs4085481	T	C	0.121	0.026	5.77E-06	12465
genus.Lactococcus.id.1851	rs3731972	T	C	-0.171	0.039	5.76E-06	4023
genus.Coprobacter.id.949	rs74919520	A	G	0.126	0.028	5.76E-06	6387
genus.Hungatella.id.11306	rs71618441	G	A	-0.155	0.033	5.76E-06	3947
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973296	A	G	0.089	0.020	5.76E-06	5378
genus.Ruminiclostridium9.id.11357	rs45471897	C	G	-0.052	0.011	5.76E-06	16725
genus..Eubacteriumventriosumgroup.id.11341	rs35179274	T	C	-0.063	0.014	5.76E-06	15287

genus..Eubacteriumnodatumgroup.id.11297	rs113893692	T	C	-0.185	0.040	5.76E-06	3195
genus.Romboutsia.id.11347	rs9567264	T	C	0.058	0.013	5.76E-06	14180
genus.Ruminiclostridium9.id.11357	rs12496662	A	G	-0.052	0.011	5.76E-06	16725
genus.Paraprevotella.id.962	rs1928132	G	T	-0.091	0.020	5.75E-06	7178
genus.LachnospiraceaeUCG008.id.11328	rs7931514	C	T	-0.118	0.026	5.75E-06	7017
genus.Lactococcus.id.1851	rs7259929	C	A	0.112	0.025	5.74E-06	4057
genus.Peptococcus.id.2037	rs72850165	C	T	-0.134	0.030	5.74E-06	5627
genus.Senegalimassilia.id.11160	rs10972033	G	T	0.078	0.017	5.74E-06	6923
genus.RuminococcaceaeUCG011.id.11368	rs12730642	C	T	-0.114	0.025	5.74E-06	3632
genus.Turicibacter.id.2162	rs12601652	G	A	0.098	0.022	5.74E-06	8926
genus.Lachnoclostridium.id.11308	rs6985620	C	T	-0.051	0.011	5.74E-06	17919
genus.LachnospiraceaeFCS020group.id.11314	rs1530209	T	C	0.056	0.012	5.73E-06	13772
genus.Phascolarctobacterium.id.2168	rs74847270	G	A	-0.105	0.023	5.73E-06	11098
genus.LachnospiraceaeFCS020group.id.11314	rs9858926	T	A	0.056	0.012	5.73E-06	13772
genus.Methanobrevibacter.id.123	rs7601415	T	A	-0.110	0.024	5.73E-06	3581
genus.CandidatusSoleaferrea.id.11350	rs36160691	A	G	0.104	0.024	5.73E-06	5958
genus.FamilyXIIIUCG001.id.11294	rs12488120	T	G	-0.063	0.014	5.72E-06	12445
genus.Lactococcus.id.1851	rs4806168	A	C	0.112	0.025	5.72E-06	4057
genus.Allisonella.id.2174	rs35110698	C	T	-0.146	0.032	5.72E-06	3212
genus.LachnospiraceaeUCG004.id.11324	rs2503728	C	T	-0.054	0.012	5.72E-06	14465
genus.Eggerthella.id.819	rs4985746	A	G	0.111	0.025	5.71E-06	4906
genus.Copro bacter.id.949	rs11532348	T	C	-0.104	0.023	5.71E-06	6364
genus.LachnospiraceaeUCG001.id.11321	rs80219526	G	T	0.185	0.042	5.71E-06	5265
genus.RuminococcaceaeUCG010.id.11367	rs34668774	A	G	-0.068	0.015	5.71E-06	12793
genus.Sellimonas.id.14369	rs2593167	T	G	0.114	0.025	5.71E-06	3154
genus.FamilyXIIIAD3011group.id.11293	rs34171133	T	G	-0.091	0.020	5.70E-06	13622
genus..Ruminococcustorquesgroup.id.14377	rs4791587	C	T	0.048	0.011	5.70E-06	17798
genus.Enterorhabdus.id.820	rs9470637	T	A	-0.076	0.017	5.70E-06	7524
genus.Faecalibacterium.id.2057	rs114946999	T	C	-0.086	0.019	5.70E-06	15673
genus.Victivallis.id.2256	rs9311659	T	C	0.113	0.025	5.69E-06	3267
genus..Ruminococcusgnavusgroup.id.14376	rs6861096	T	A	-0.091	0.020	5.69E-06	6400

genus.Sellimonas.id.14369	rs2570233	A	G	0.114	0.025	5.69E-06	3154
genus.RuminococcaceaeUCG003.id.11361	rs34154358	T	C	-0.061	0.013	5.69E-06	14412
genus.RuminococcaceaeUCG003.id.11361	rs507711	C	T	0.054	0.012	5.69E-06	14411
genus.unknowngenus.id.1868	rs34914033	G	A	-0.071	0.016	5.68E-06	10301
genus.LachnospiraceaeUCG010.id.11330	rs72894957	A	G	0.222	0.049	5.68E-06	4316
genus.LachnospiraceaeUCG010.id.11330	rs72894958	T	C	0.222	0.049	5.68E-06	4316
genus.Peptococcus.id.2037	rs77614201	C	T	-0.176	0.039	5.68E-06	5329
genus.Tyzzereella3.id.11335	rs820796	T	G	0.123	0.029	5.68E-06	5396
genus.Ruminiclostridium9.id.11357	rs13033315	A	T	0.051	0.011	5.68E-06	16724
genus.Eubacteriumventriosumgroup.id.11341	rs28820968	G	A	-0.054	0.012	5.68E-06	15287
genus.Allisonella.id.2174	rs2401384	A	C	0.137	0.030	5.68E-06	3212
genus.Streptococcus.id.1853	rs10993693	A	G	-0.051	0.011	5.67E-06	16387
genus.LachnospiraceaeFCS020group.id.11314	rs1530208	A	G	0.056	0.012	5.67E-06	13772
genus.Sutterella.id.2896	rs9292197	T	C	-0.060	0.013	5.67E-06	13251
genus.ChristensenellaceaeR.7group.id.11283	rs62132810	G	A	-0.083	0.018	5.67E-06	15066
genus.Butyrivibrio.id.1993	rs6661508	G	A	0.171	0.037	5.66E-06	3480
genus.Anaerostipes.id.1991	rs2804197	T	C	-0.050	0.011	5.66E-06	16926
genus.RuminococcaceaeUCG002.id.11360	rs7342369	A	C	-0.053	0.012	5.66E-06	16651
genus.Odoribacter.id.952	rs78962466	T	C	-0.122	0.027	5.66E-06	11935
genus.Phascolarctobacterium.id.2168	rs1264461	G	T	0.076	0.017	5.66E-06	11114
genus.Odoribacter.id.952	rs145109900	A	G	-0.122	0.027	5.66E-06	11935
genus.Eggerthella.id.819	rs1784407	C	T	0.091	0.020	5.66E-06	5147
genus.Parabacteroides.id.954	rs114567323	C	T	0.186	0.041	5.65E-06	5859
genus.RuminococcaceaeUCG003.id.11361	rs2359534	C	T	-0.055	0.012	5.65E-06	14409
genus.Lactococcus.id.1851	rs10408170	G	A	0.111	0.025	5.65E-06	4058
genus.Bacteroides.id.918	rs68118234	T	C	-0.077	0.017	5.65E-06	17484
genus.Anaerostipes.id.1991	rs1581903	T	C	-0.050	0.011	5.65E-06	16926
genus.Butyrivibrio.id.1993	rs8074123	G	T	0.116	0.026	5.65E-06	3479
genus.Paraprevotella.id.962	rs2367260	T	C	-0.080	0.017	5.65E-06	7178
genus.Lactococcus.id.1851	rs10424088	T	C	0.111	0.025	5.65E-06	4057
genus.Desulfovibrio.id.3173	rs9851810	A	G	0.117	0.025	5.64E-06	9241

genus.Hungatella.id.11306	rs67230009	T	G	-0.154	0.033	5.64E-06	3950
genus.Ruminiclostridium9.id.11357	rs7556466	G	A	0.056	0.012	5.64E-06	16725
genus.Desulfovibrio.id.3173	rs4797774	A	G	0.213	0.047	5.64E-06	3476
genus.RuminococcaceaeUCG003.id.11361	rs11780331	G	A	-0.061	0.013	5.64E-06	14412
genus.Eubacteriumnodatumgroup.id.11297	rs1158959	C	T	0.158	0.034	5.64E-06	3295
genus.LachnospiraceaeUCG001.id.11321	rs75206442	T	C	0.106	0.023	5.64E-06	10097
genus.Intestinibacter.id.11345	rs447950	G	A	0.063	0.014	5.64E-06	12303
genus.RuminococcaceaeUCG011.id.11368	rs12746001	G	A	-0.115	0.025	5.64E-06	3632
genus.Lactobacillus.id.1837	rs12542112	T	C	-0.078	0.017	5.64E-06	6958
genus.Lactococcus.id.1851	rs3213775	A	G	-0.170	0.039	5.63E-06	4021
genus.Turicibacter.id.2162	rs2952020	A	G	-0.076	0.017	5.63E-06	8949
genus.RikenellaceaeRC9gutgroup.id.11191	rs11597218	C	T	0.114	0.025	5.63E-06	3320
genus.RikenellaceaeRC9gutgroup.id.11191	rs10895318	A	G	0.113	0.025	5.63E-06	3333
genus.Oscillospira.id.2064	rs72866977	C	A	-0.131	0.028	5.63E-06	9098
genus.CandidatusSoleaferrea.id.11350	rs256867	G	C	0.100	0.022	5.63E-06	6102
genus.Clostridiumsensustricto1.id.1873	rs146962933	G	A	0.109	0.025	5.63E-06	12911
genus.Bilophila.id.3170	rs72676854	C	T	0.123	0.027	5.62E-06	11616
genus.Ruminococcus2.id.11374	rs7042369	T	G	0.071	0.016	5.62E-06	15339
genus.Methanobrevibacter.id.123	rs9594529	A	G	0.207	0.045	5.62E-06	3390
genus.Howardella.id.2000	rs17529367	G	A	-0.136	0.030	5.62E-06	3612
genus.LachnospiraceaeUCG001.id.11321	rs11788340	A	G	-0.065	0.014	5.62E-06	10148
genus.LachnospiraceaeNK4A136group.id.11319	rs2880566	C	T	0.060	0.013	5.61E-06	17232
genus.Parasutterella.id.2892	rs10847029	G	A	-0.073	0.016	5.61E-06	11386
genus.Oscillospira.id.2064	rs8076323	G	A	0.072	0.016	5.61E-06	10193
genus.LachnospiraceaeNC2004group.id.11316	rs17067076	A	G	-0.155	0.035	5.61E-06	4449
genus.Eubacteriumbrachygroup.id.11296	rs12251446	A	G	-0.165	0.036	5.61E-06	4000
genus.Senegalimassilia.id.11160	rs61944230	A	G	0.079	0.017	5.61E-06	6923
genus.unknowngenus.id.959	rs10042033	C	G	-0.112	0.024	5.61E-06	4293
genus.Catenibacterium.id.2153	rs7742829	T	C	0.114	0.025	5.61E-06	3239
genus.Bifidobacterium.id.436	rs6711997	T	C	0.062	0.014	5.61E-06	14778
genus.ChristensenellaceaeR.7group.id.11283	rs78521377	T	C	0.125	0.027	5.61E-06	12605

genus.LachnospiraceaeUCG001.id.11321	rs11788322	A	T	-0.065	0.014	5.61E-06	10150
genus.LachnospiraceaeFCS020group.id.11314	rs10936480	G	A	0.056	0.012	5.60E-06	13772
genus.Coprococcus3.id.11303	rs9941669	C	T	-0.067	0.015	5.60E-06	15833
genus.Lactococcus.id.1851	rs3972335	A	G	0.111	0.025	5.60E-06	4058
genus.LachnospiraceaeFCS020group.id.11314	rs1254846	A	G	0.106	0.023	5.60E-06	13172
genus.unknowngenus.id.2001	rs605678	G	T	0.087	0.020	5.60E-06	9530
genus.Parasutterella.id.2892	rs7162222	C	G	0.061	0.013	5.59E-06	11383
genus.RuminococcaceaeUCG002.id.11360	rs4806679	C	T	-0.053	0.012	5.59E-06	16996
genus.RuminococcaceaeUCG003.id.11361	rs3795750	G	A	-0.056	0.012	5.59E-06	14412
genus.Eubacteriumventriosumgroup.id.11341	rs78869071	T	C	0.098	0.023	5.59E-06	14577
genus.Subdoligranulum.id.2070	rs6555307	T	A	-0.072	0.016	5.59E-06	17591
genus.Anaerostipes.id.1991	rs2804202	T	A	-0.050	0.011	5.59E-06	16926
genus.Howardella.id.2000	rs11871699	A	T	-0.104	0.023	5.59E-06	3796
genus.Clostridiuminnocuumgroup.id.14397	rs61267978	C	T	0.147	0.032	5.59E-06	4165
genus.Paraprevotella.id.962	rs2058084	C	T	-0.080	0.017	5.58E-06	7179
genus.Ruminococcus1.id.11373	rs1447569	A	C	-0.053	0.012	5.58E-06	16605
genus.Bifidobacterium.id.436	rs6713776	C	G	0.073	0.015	5.58E-06	14778
genus.Peptococcus.id.2037	rs1596026	A	G	-0.104	0.023	5.58E-06	5526
genus.Parasutterella.id.2892	rs56189010	A	G	-0.072	0.016	5.58E-06	11077
genus.Anaerostipes.id.1991	rs1581906	T	A	-0.050	0.011	5.58E-06	16926
genus.Parasutterella.id.2892	rs7302674	G	T	-0.073	0.016	5.58E-06	11385
genus.Lachnoclostridium.id.11308	rs72829893	T	G	0.117	0.027	5.58E-06	12404
genus.LachnospiraceaeFCS020group.id.11314	rs9881026	A	G	0.056	0.012	5.58E-06	13772
genus.Turicibacter.id.2162	rs12602256	C	T	0.098	0.022	5.58E-06	8926
genus.LachnospiraceaeUCG004.id.11324	rs6656451	T	C	-0.054	0.012	5.57E-06	14458
genus.Sellimonas.id.14369	rs7968030	T	A	-0.127	0.028	5.56E-06	3095
genus.Ruminiclostridium5.id.11355	rs7703519	C	A	0.082	0.018	5.56E-06	16680
genus.Allisonella.id.2174	rs16919661	T	C	0.137	0.030	5.56E-06	3212
genus.Phascolarctobacterium.id.2168	rs1264463	T	C	0.076	0.017	5.56E-06	11104
genus.Parasutterella.id.2892	rs1403391	C	T	-0.073	0.016	5.56E-06	11385
genus.Anaerostipes.id.1991	rs2225166	C	T	-0.050	0.011	5.56E-06	16925

genus.LachnospiraceaeUCG008.id.11328	rs6813622	G	T	0.077	0.017	5.56E-06	7016
genus.Eubacteriumventriosumgroup.id.11341	rs10137837	T	C	-0.054	0.012	5.56E-06	15287
genus.LachnospiraceaeUCG008.id.11328	rs11025183	T	C	-0.090	0.020	5.55E-06	7015
genus.Butyrivibrio.id.1993	rs9349693	G	A	0.118	0.026	5.55E-06	3482
genus.Ruminococcustorquesgroup.id.14377	rs11764254	A	C	0.076	0.017	5.55E-06	17011
genus.Ruminiclostridium5.id.11355	rs1929387	A	T	0.049	0.011	5.55E-06	17380
genus.Subdoligranulum.id.2070	rs936135	A	G	-0.052	0.012	5.54E-06	17591
genus.Allisonella.id.2174	rs1564048	C	T	0.137	0.030	5.54E-06	3212
genus.RuminococcaceaeUCG011.id.11368	rs2523007	C	T	-0.106	0.023	5.54E-06	3632
genus.Ruminiclostridium5.id.11355	rs2791343	C	T	0.052	0.011	5.54E-06	17392
genus.Akkermansia.id.4037	rs7693865	C	T	0.107	0.024	5.54E-06	11215
genus.Holdemanella.id.11393	rs62113381	C	T	-0.105	0.023	5.54E-06	7310
genus.Anaerofilum.id.2053	rs1563175	C	A	0.092	0.020	5.54E-06	5051
genus.Victivallis.id.2256	rs9483237	G	A	0.113	0.025	5.54E-06	3267
genus.Ruminococcusgavreuiiigroup.id.11342	rs431418	G	A	-0.095	0.021	5.54E-06	13289
genus.CandidatusSoleaferrea.id.11350	rs4678258	C	T	0.099	0.022	5.53E-06	6101
genus.Intestinimonas.id.2062	rs66542626	G	A	0.060	0.013	5.52E-06	11766
genus.Sellimonas.id.14369	rs2570258	T	G	0.114	0.025	5.52E-06	3154
genus.Alistipes.id.968	rs2323487	A	T	0.074	0.017	5.52E-06	17571
genus.RuminococcaceaeUCG011.id.11368	rs9404559	C	G	-0.134	0.030	5.52E-06	3632
genus.unknowngenus.id.2001	rs510060	C	T	0.088	0.019	5.52E-06	9530
genus.RuminococcaceaeUCG004.id.11362	rs4522018	G	C	0.082	0.018	5.52E-06	9116
genus.Alistipes.id.968	rs12534925	T	G	-0.049	0.011	5.52E-06	17570
genus.LachnospiraceaeUCG008.id.11328	rs7932624	A	G	-0.089	0.019	5.52E-06	7017
genus.Sutterella.id.2896	rs62501473	A	G	0.069	0.015	5.52E-06	12762
genus.Bifidobacterium.id.436	rs6430594	A	G	0.073	0.016	5.52E-06	14778
genus.Butyrivicoccus.id.2055	rs7322368	C	T	0.082	0.018	5.52E-06	17134
genus.LachnospiraceaeUCG001.id.11321	rs501463	C	T	-0.106	0.023	5.52E-06	10150
genus.Ruminococcusgnavusgroup.id.14376	rs1908700	T	C	-0.106	0.023	5.52E-06	6327
genus.unknowngenus.id.959	rs6835787	T	C	0.123	0.027	5.51E-06	4867
genus.Veillonella.id.2198	rs55807413	G	A	0.107	0.024	5.51E-06	8610

genus.Adlercreutzia.id.812	rs10233106	T	C	0.140	0.031	5.51E-06	8107
genus.Butyrvibrio.id.1993	rs17163238	A	G	0.141	0.031	5.51E-06	3482
genus.Copro bacter.id.949	rs5011652	C	G	0.090	0.020	5.51E-06	6783
genus.Eubacteriumbrachygroup.id.11296	rs77700046	C	T	-0.165	0.036	5.51E-06	3988
genus.Bifidobacterium.id.436	rs72974159	C	T	0.064	0.014	5.50E-06	14666
genus.Anaerostipes.id.1991	rs11197319	T	G	-0.050	0.011	5.50E-06	16926
genus.Copro coccus2.id.11302	rs1022078	T	C	0.065	0.014	5.50E-06	11478
genus.Ruminococcus1.id.11373	rs7929114	G	A	-0.050	0.011	5.50E-06	16607
genus.RuminococcaceaeUCG004.id.11362	rs12128743	C	T	0.125	0.027	5.50E-06	8938
genus.Oscillibacter.id.2063	rs3731749	C	T	0.096	0.021	5.50E-06	8930
genus.Veillonella.id.2198	rs6656807	G	A	0.070	0.015	5.50E-06	8999
genus.Alistipes.id.968	rs1960663	T	C	-0.050	0.011	5.50E-06	17571
genus.Intestinibacter.id.11345	rs11109097	T	C	0.062	0.014	5.49E-06	11886
genus.Ruminococcustorquesgroup.id.14377	rs504963	G	A	-0.048	0.011	5.49E-06	17798
genus.Ruminiclostridium9.id.11357	rs9522719	G	A	0.069	0.015	5.49E-06	16725
genus.FamilyXIIIAD3011group.id.11293	rs2999599	C	T	-0.055	0.012	5.48E-06	14191
genus.Victivallis.id.2256	rs9483239	T	C	0.113	0.025	5.48E-06	3267
genus.Alistipes.id.968	rs148278255	A	G	-0.049	0.011	5.48E-06	17565
genus.CandidatusSoleaferrea.id.11350	rs113393759	C	T	-0.123	0.028	5.48E-06	6145
genus.Hungatella.id.11306	rs55683737	T	C	-0.155	0.033	5.48E-06	3949
genus.Streptococcus.id.1853	rs57646748	A	G	-0.091	0.020	5.48E-06	15939
genus.Bilophila.id.3170	rs8013541	T	A	-0.057	0.013	5.48E-06	12856
genus.Veillonella.id.2198	rs2831938	A	G	-0.075	0.016	5.47E-06	9291
genus.CandidatusSoleaferrea.id.11350	rs10809135	C	T	0.083	0.018	5.47E-06	5999
genus.Parasutterella.id.2892	rs11058437	A	T	-0.073	0.016	5.47E-06	11385
genus.Eubacteriumnodatumgroup.id.11297	rs2357118	G	T	-0.155	0.034	5.47E-06	3271
genus.Oscillibacter.id.2063	rs9368568	T	G	-0.069	0.015	5.47E-06	8929
genus.Fusicatenibacter.id.11305	rs60254196	G	A	-0.049	0.011	5.47E-06	16978
genus.Veillonella.id.2198	rs1454956	C	T	-0.075	0.016	5.47E-06	9290
genus.ChristensenellaceaeR.7group.id.11283	rs62468811	G	A	0.130	0.029	5.47E-06	10237
genus.Bifidobacterium.id.436	rs7582173	G	A	0.074	0.015	5.46E-06	14778

genus.Turicibacter.id.2162	rs4247078	G	C	0.071	0.016	5.46E-06	8948
genus.RikenellaceaeRC9gutgroup.id.11191	rs4270579	A	G	-0.118	0.027	5.46E-06	3331
genus.Ruminococcus1.id.11373	rs11038597	C	T	-0.053	0.012	5.45E-06	16604
genus.RuminococcaceaeUCG002.id.11360	rs882348	G	A	-0.080	0.018	5.45E-06	17097
genus.Catenibacterium.id.2153	rs629326	T	G	-0.117	0.025	5.45E-06	3239
genus.RuminococcaceaeUCG002.id.11360	rs12513663	C	T	-0.055	0.012	5.45E-06	17087
genus.Bifidobacterium.id.436	rs2278682	G	C	0.072	0.016	5.45E-06	14777
genus.Ruminiclostridium9.id.11357	rs60295840	T	A	-0.053	0.012	5.44E-06	16725
genus..Ruminococcustorquesgroup.id.14377	rs485186	A	G	-0.048	0.011	5.44E-06	17798
genus.LachnospiraceaeNK4A136group.id.11319	rs1951575	T	C	-0.053	0.011	5.44E-06	17236
genus.Coprococcus2.id.11302	rs35916879	G	C	0.068	0.015	5.44E-06	11484
genus..Eubacteriumruminantiumgroup.id.11340	rs11637981	T	G	-0.073	0.016	5.44E-06	7718
genus.Lactococcus.id.1851	rs10425847	T	C	0.112	0.025	5.44E-06	4057
genus.Lachnoclostridium.id.11308	rs1529367	C	A	-0.052	0.011	5.43E-06	17922
genus.Prevotella9.id.11183	rs2943422	G	A	-0.068	0.015	5.43E-06	10260
genus.Subdoligranulum.id.2070	rs12590822	C	G	-0.050	0.011	5.43E-06	17591
genus..Eubacteriumhalliigroup.id.11338	rs138531890	G	A	0.153	0.035	5.43E-06	7710
genus.Parasutterella.id.2892	rs7133089	T	C	-0.073	0.016	5.43E-06	11385
genus.Butyricimonas.id.945	rs11738176	C	A	0.065	0.015	5.43E-06	10732
genus.Erysipelatoclostridium.id.11381	rs972352	A	C	0.086	0.019	5.42E-06	9430
genus.Allisonella.id.2174	rs34870571	G	A	0.137	0.030	5.42E-06	3212
genus..Eubacteriumhalliigroup.id.11338	rs10501370	T	C	-0.116	0.025	5.42E-06	13824
genus.Anaerotruncus.id.2054	rs2704155	A	T	-0.106	0.023	5.42E-06	12419
genus.Fusicatenibacter.id.11305	rs7069626	C	T	0.051	0.011	5.42E-06	17384
genus.Bifidobacterium.id.436	rs4988274	T	A	0.075	0.016	5.42E-06	14666
genus..Ruminococcusgnavusgroup.id.14376	rs12653463	A	G	-0.091	0.020	5.41E-06	6401
genus.CandidatusSoleiferrea.id.11350	rs36155147	T	C	0.105	0.024	5.41E-06	5958
genus.Lachnoclostridium.id.11308	rs6045989	G	A	-0.050	0.011	5.41E-06	17842
genus.Hungatella.id.11306	rs35815424	A	G	-0.155	0.033	5.41E-06	3950
genus.Romboutsia.id.11347	rs16843588	T	G	-0.088	0.020	5.40E-06	14184
genus..Eubacteriumventriosumgroup.id.11341	rs17009692	A	C	0.098	0.023	5.40E-06	14578

genus.Ruminococcus2.id.11374	rs4799823	T	C	0.084	0.018	5.40E-06	14650
genus.Lactococcus.id.1851	rs4805128	C	T	0.112	0.025	5.40E-06	4057
genus.Intestinibacter.id.11345	rs940025	C	T	-0.136	0.030	5.39E-06	10333
genus.Oscillibacter.id.2063	rs16866397	T	G	0.096	0.021	5.39E-06	8930
genus.Sellimonas.id.14369	rs2623259	C	A	0.115	0.025	5.39E-06	3154
genus.RuminococcaceaeUCG004.id.11362	rs9818949	T	G	0.086	0.019	5.39E-06	9116
genus.RuminococcaceaeUCG003.id.11361	rs485186	A	G	0.054	0.012	5.39E-06	14412
genus.Prevotella9.id.11183	rs146399833	A	G	-0.087	0.019	5.39E-06	9384
genus.Butyricimonas.id.945	rs270727	C	G	-0.069	0.015	5.38E-06	10634
genus.Eubacteriumventriosumgroup.id.11341	rs10138634	A	G	-0.054	0.012	5.38E-06	15287
genus.Sellimonas.id.14369	rs72553859	C	G	-0.150	0.033	5.38E-06	3154
genus.Blautia.id.1992	rs13330279	A	G	0.118	0.025	5.38E-06	14708
genus.LachnospiraceaeUCG008.id.11328	rs72900010	A	G	-0.108	0.024	5.37E-06	6950
genus.Coprococcus2.id.11302	rs13111161	G	C	-0.063	0.014	5.37E-06	11009
genus.Ruminococcustorquesgroup.id.14377	rs506897	G	C	-0.049	0.011	5.37E-06	17798
genus.Allisonella.id.2174	rs898870	G	A	0.137	0.030	5.37E-06	3212
genus.Eubacteriumrectalegroup.id.14374	rs59427698	G	A	-0.058	0.013	5.37E-06	16613
genus.Eubacteriumbrachygroup.id.11296	rs12651215	G	C	0.103	0.023	5.37E-06	4000
genus.RuminococcaceaeUCG003.id.11361	rs8112983	T	C	0.055	0.012	5.36E-06	14322
genus.Eubacteriumruminantiumgroup.id.11340	rs73139629	C	A	-0.115	0.025	5.36E-06	7314
genus.Clostridiumsensustricto1.id.1873	rs11181871	T	C	0.109	0.025	5.36E-06	12910
genus.LachnospiraceaeFCS020group.id.11314	rs6764789	G	A	0.056	0.012	5.36E-06	13772
genus.RuminococcaceaeUCG005.id.11363	rs72776570	A	C	0.087	0.020	5.36E-06	15376
genus.FamilyXIIIUCG001.id.11294	rs2276529	G	C	-0.076	0.017	5.36E-06	12748
genus.Turicibacter.id.2162	rs114145484	C	G	-0.122	0.027	5.35E-06	8626
genus.Anaerostipes.id.1991	rs2769424	C	T	-0.050	0.011	5.35E-06	16926
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs59168137	C	T	0.077	0.017	5.35E-06	16660
genus.Ruminococcusgnavusgroup.id.14376	rs10858049	A	G	0.088	0.020	5.35E-06	6401
genus.LachnospiraceaeFCS020group.id.11314	rs10936479	G	T	0.056	0.012	5.35E-06	13772
genus.Oscillibacter.id.2063	rs75453768	T	G	0.122	0.027	5.35E-06	8256
genus.Holdemanella.id.11393	rs1830029	G	C	-0.095	0.021	5.35E-06	7456

genus.Lactococcus.id.1851	rs10425058	T	G	0.112	0.025	5.35E-06	4057
genus.Lachnospira.id.2004	rs11887924	G	A	0.053	0.011	5.35E-06	16042
genus.Subdoligranulum.id.2070	rs7737642	A	C	-0.080	0.017	5.34E-06	17591
genus.Allisonella.id.2174	rs13287095	T	C	0.139	0.030	5.34E-06	3212
genus.LachnospiraceaeNC2004group.id.11316	rs1331592	G	C	0.095	0.021	5.34E-06	6328
genus.Ruminiclostridium9.id.11357	rs12634971	A	T	-0.053	0.012	5.34E-06	16725
genus.unknowngenus.id.959	rs4766410	T	C	0.097	0.021	5.34E-06	4565
genus.Paraprevotella.id.962	rs2159036	A	C	-0.081	0.017	5.34E-06	7177
genus.Lachnoclostridium.id.11308	rs6075501	T	C	-0.049	0.011	5.34E-06	17842
genus.Anaerostipes.id.1991	rs78735375	C	A	-0.137	0.031	5.33E-06	10360
genus.Holdemania.id.2157	rs35409370	T	G	-0.133	0.029	5.33E-06	8432
genus.Faecalibacterium.id.2057	rs9536330	C	T	-0.048	0.011	5.33E-06	18082
genus.Oxalobacter.id.2978	rs73733936	T	C	-0.136	0.030	5.33E-06	4492
genus.Dorea.id.1997	rs12216169	A	T	0.088	0.019	5.33E-06	16086
genus.Roseburia.id.2012	rs28849840	G	A	0.052	0.011	5.33E-06	17444
genus.Eubacteriumventriosumgroup.id.11341	rs61534193	G	A	-0.054	0.012	5.33E-06	15289
genus.Parasutterella.id.2892	rs764553	G	A	-0.073	0.016	5.33E-06	11386
genus.Bifidobacterium.id.436	rs309157	G	A	0.075	0.016	5.33E-06	14778
genus.Slackia.id.825	rs347676	G	A	0.085	0.019	5.32E-06	6063
genus.Olsenella.id.822	rs7540303	T	C	0.108	0.024	5.32E-06	3739
genus.Turicibacter.id.2162	rs3734633	A	G	-0.121	0.027	5.32E-06	8626
genus.Adlercreutzia.id.812	rs34899151	A	G	-0.130	0.028	5.32E-06	7929
genus.Eubacteriumventriosumgroup.id.11341	rs28803480	C	G	-0.054	0.012	5.32E-06	15287
genus.Phascolarctobacterium.id.2168	rs1264475	G	T	0.076	0.017	5.32E-06	11104
genus.Lachnospira.id.2004	rs10767477	A	T	-0.060	0.013	5.31E-06	16492
genus.Ruminiclostridium5.id.11355	rs4934685	G	C	-0.052	0.011	5.31E-06	17388
genus.Butyrvibrio.id.1993	rs12937276	C	T	0.117	0.026	5.31E-06	3473
genus.Anaerostipes.id.1991	rs2784812	G	A	-0.050	0.011	5.30E-06	16926
genus.Ruminiclostridium9.id.11357	rs62287897	A	G	-0.053	0.012	5.30E-06	16725
genus.Eubacteriumventriosumgroup.id.11341	rs8022000	C	T	-0.054	0.012	5.30E-06	15287
genus.Eubacteriumeligensgroup.id.14372	rs2200429	G	A	-0.089	0.020	5.30E-06	14761

genus.Subdoligranulum.id.2070	rs9813294	G	A	-0.049	0.011	5.30E-06	17579
genus.LachnospiraceaeFCS020group.id.11314	rs9816355	T	C	0.056	0.012	5.30E-06	13772
genus..Ruminococcustorquesgroup.id.14377	rs4262735	G	A	0.065	0.014	5.29E-06	17796
genus.Adlercreutzia.id.812	rs255373	T	A	-0.071	0.016	5.29E-06	8243
genus.Lactococcus.id.1851	rs4806175	A	G	0.112	0.025	5.29E-06	4057
genus.Prevotella9.id.11183	rs1304512	A	G	0.076	0.017	5.29E-06	9790
genus.Dorea.id.1997	rs3005511	G	A	0.052	0.011	5.29E-06	17610
genus.Eisenbergiella.id.11304	rs11027644	C	T	0.128	0.028	5.29E-06	5583
genus.Ruminococcus2.id.11374	rs1819812	T	G	0.084	0.018	5.28E-06	14868
genus.Peptococcus.id.2037	rs6573150	G	A	0.108	0.024	5.28E-06	5483
genus.LachnospiraceaeNK4A136group.id.11319	rs1951576	A	G	-0.053	0.012	5.28E-06	17236
genus..Eubacteriumrectalegroup.id.14374	rs11044925	T	C	-0.097	0.022	5.28E-06	15612
genus.LachnospiraceaeUCG008.id.11328	rs29325	T	C	0.078	0.017	5.28E-06	7016
genus..Eubacteriumventriosumgroup.id.11341	rs62011174	A	C	-0.054	0.012	5.28E-06	15287
genus.Butyricimonas.id.945	rs10823645	G	T	0.064	0.014	5.28E-06	10737
genus..Ruminococcusgavreuiiigroup.id.11342	rs2166943	C	A	0.057	0.012	5.28E-06	13377
genus.Escherichia.Shigella.id.3504	rs113513883	G	A	0.172	0.038	5.28E-06	6280
genus.Coprococcus2.id.11302	rs13110934	G	A	-0.063	0.014	5.28E-06	11009
genus.Alistipes.id.968	rs1689282	C	A	-0.052	0.011	5.28E-06	17090
genus.Turicibacter.id.2162	rs77243960	C	T	0.095	0.021	5.28E-06	8945
genus.Marvinbryantia.id.2005	rs514566	T	G	0.062	0.014	5.28E-06	11950
genus.Ruminiclostridium5.id.11355	rs1929386	C	G	0.049	0.011	5.27E-06	17380
genus.Prevotella9.id.11183	rs1193308	G	A	-0.069	0.015	5.27E-06	10268
genus.LachnospiraceaeNK4A136group.id.11319	rs7073658	G	T	-0.050	0.011	5.27E-06	17236
genus.Eisenbergiella.id.11304	rs1553971	G	T	0.121	0.026	5.27E-06	5583
genus..Eubacteriumeligensgroup.id.14372	rs73747128	T	C	0.103	0.023	5.27E-06	12891
genus.Eggerthella.id.819	rs1784445	G	C	0.091	0.020	5.27E-06	5147
genus.RikenellaceaeRC9gutgroup.id.11191	rs7113155	C	G	0.114	0.025	5.26E-06	3334
genus.Veillonella.id.2198	rs13073802	C	T	0.084	0.018	5.26E-06	8999
genus.Anaerostipes.id.1991	rs1576147	G	A	-0.050	0.011	5.26E-06	16926
genus.Intestinibacter.id.11345	rs12449107	C	T	-0.147	0.032	5.26E-06	8900

genus.Turicibacter.id.2162	rs9746981	A	G	0.101	0.022	5.26E-06	8949
genus.Enterorhabdus.id.820	rs11839306	T	G	0.086	0.019	5.26E-06	7524
genus.Paraprevotella.id.962	rs76403863	C	T	-0.155	0.035	5.26E-06	6187
genus.Lachnoclostridium.id.11308	rs4405817	A	G	-0.049	0.011	5.26E-06	17842
genus.Butyrvibrio.id.1993	rs10457241	G	A	-0.110	0.024	5.26E-06	3482
genus.LachnospiraceaeNC2004group.id.11316	rs36062763	C	T	0.112	0.025	5.25E-06	6226
genus.Allisonella.id.2174	rs16919675	T	C	0.137	0.030	5.25E-06	3212
genus.Ruminococcustorquesgroup.id.14377	rs2271192	T	C	0.075	0.017	5.25E-06	17011
genus.Adlercreutzia.id.812	rs2717139	A	G	-0.114	0.025	5.25E-06	8243
genus.Bifidobacterium.id.436	rs3098104	T	A	0.075	0.016	5.25E-06	14778
genus.Eggerthella.id.819	rs1784405	G	T	0.091	0.020	5.25E-06	5147
genus.Akkermansia.id.4037	rs72663782	G	C	0.066	0.014	5.25E-06	11864
genus.Eubacteriumxylanophilumgroup.id.14375	rs75091271	T	C	-0.092	0.020	5.25E-06	13256
genus.Anaerostipes.id.1991	rs2250483	C	A	-0.050	0.011	5.25E-06	16926
genus.RuminococcaceaeUCG010.id.11367	rs686246	G	A	-0.057	0.012	5.25E-06	12862
genus.Anaerostipes.id.1991	rs176091	A	T	0.074	0.017	5.25E-06	16132
genus.Anaerostipes.id.1991	rs1576144	C	T	-0.050	0.011	5.24E-06	16926
genus.RuminococcaceaeUCG003.id.11361	rs3013105	T	C	-0.055	0.012	5.24E-06	14412
genus.Bacteroides.id.918	rs79471440	G	T	0.058	0.013	5.24E-06	18182
genus.Adlercreutzia.id.812	rs6664405	C	T	-0.095	0.021	5.23E-06	8051
genus.RikenellaceaeRC9gutgroup.id.11191	rs4978853	T	G	-0.170	0.038	5.23E-06	3334
genus.Turicibacter.id.2162	rs113629870	C	T	0.089	0.020	5.23E-06	8949
genus.Eggerthella.id.819	rs1784446	A	G	0.091	0.020	5.23E-06	5147
genus.Senegalimassilia.id.11160	rs59250595	T	C	0.079	0.017	5.23E-06	6923
genus.Ruminococcus1.id.11373	rs78572139	A	G	0.125	0.028	5.23E-06	11667
genus.Fusicatenibacter.id.11305	rs16866708	A	G	-0.070	0.016	5.23E-06	16626
genus.Oxalobacter.id.2978	rs6071441	C	T	-0.106	0.023	5.23E-06	4628
genus.Eubacteriumventriosumgroup.id.11341	rs10144298	T	G	-0.054	0.012	5.23E-06	15287
genus.RuminococcaceaeUCG013.id.11370	rs12639557	A	G	-0.059	0.013	5.22E-06	16769
genus.FamilyXIIIAD3011group.id.11293	rs12096170	G	A	-0.055	0.012	5.22E-06	14200
genus.Eubacteriumnodatumgroup.id.11297	rs11256279	T	C	0.158	0.034	5.22E-06	3295

genus.RuminococcaceaeUCG003.id.11361	rs78907377	G	A	-0.061	0.013	5.22E-06	14407
genus.Akkermansia.id.4037	rs3995795	T	C	0.064	0.014	5.22E-06	11689
genus.Bacteroides.id.918	rs6015624	A	G	0.075	0.017	5.21E-06	17411
genus.Lactococcus.id.1851	rs12984590	T	C	0.112	0.025	5.21E-06	4057
genus..Eubacteriumventriosumgroup.id.11341	rs73849225	C	T	0.098	0.022	5.21E-06	14573
genus.LachnospiraceaeFCS020group.id.11314	rs2322265	T	C	-0.067	0.014	5.21E-06	13772
genus..Eubacteriumbrachygroup.id.11296	rs77352868	G	A	-0.166	0.036	5.21E-06	3989
genus.Ruminococcus1.id.11373	rs4755336	A	G	-0.051	0.011	5.21E-06	16595
genus.Turicibacter.id.2162	rs116953690	C	T	0.101	0.022	5.20E-06	8928
genus.Oxalobacter.id.2978	rs7622134	G	T	0.151	0.032	5.20E-06	4656
genus..Ruminococcusgnavusgroup.id.14376	rs329887	A	G	-0.082	0.018	5.20E-06	6397
genus.Paraprevotella.id.962	rs7216323	C	G	-0.080	0.017	5.20E-06	7178
genus.Paraprevotella.id.962	rs3801748	A	G	0.078	0.017	5.20E-06	7179
genus.Tyzzereella3.id.11335	rs2311730	C	A	0.127	0.029	5.20E-06	5396
genus.FamilyXIIIUCG001.id.11294	rs3842897	A	G	-0.113	0.024	5.20E-06	12407
genus.Paraprevotella.id.962	rs9907587	C	T	-0.080	0.017	5.20E-06	7178
genus.Bifidobacterium.id.436	rs540489	G	T	-0.064	0.014	5.19E-06	14561
genus.Subdoligranulum.id.2070	rs73289253	A	C	-0.061	0.014	5.19E-06	17589
genus..Eubacteriumhalliigroup.id.11338	rs36021113	G	A	-0.054	0.012	5.19E-06	16238
genus.Alistipes.id.968	rs17055871	T	A	0.074	0.017	5.19E-06	17571
genus.Hungatella.id.11306	rs35106888	T	G	-0.156	0.033	5.19E-06	3950
genus.Ruminiclostridium9.id.11357	rs59979723	C	A	0.070	0.015	5.19E-06	16725
genus.Blautia.id.1992	rs115043014	A	G	-0.207	0.044	5.19E-06	4902
genus.Roseburia.id.2012	rs2366612	C	T	0.049	0.011	5.19E-06	17849
genus..Eubacteriumnodatumgroup.id.11297	rs35778972	C	T	0.165	0.036	5.18E-06	3295
genus.Prevotella9.id.11183	rs71439047	G	C	-0.136	0.030	5.18E-06	8343
genus.Lachnospira.id.2004	rs13414210	T	C	0.051	0.011	5.18E-06	16485
genus.LachnospiraceaeFCS020group.id.11314	rs12330379	A	G	0.056	0.012	5.17E-06	13772
genus.LachnospiraceaeUCG001.id.11321	rs1546749	A	G	0.086	0.019	5.17E-06	9918
genus.RuminococcaceaeUCG002.id.11360	rs76847269	G	A	0.164	0.036	5.17E-06	7654
genus..Ruminococcustorquesgroup.id.14377	rs62449702	G	A	0.076	0.017	5.17E-06	17011

genus.Intestinibacter.id.11345	rs572034	A	G	-0.134	0.029	5.17E-06	10812
genus.LachnospiraceaeFCS020group.id.11314	rs811892	C	G	0.133	0.028	5.17E-06	10391
genus.Parasutterella.id.2892	rs7601728	C	G	0.061	0.013	5.16E-06	11384
genus.Ruminiclostridium5.id.11355	rs1929389	A	G	0.049	0.011	5.16E-06	17392
genus.Eubacteriumnodatumgroup.id.11297	rs34008056	G	C	0.165	0.036	5.16E-06	3295
genus.Anaerostipes.id.1991	rs2804206	T	G	-0.050	0.011	5.16E-06	16926
genus.Intestinibacter.id.11345	rs11722055	C	G	0.060	0.013	5.15E-06	12302
genus.RuminococcaceaeUCG005.id.11363	rs2893870	A	G	-0.073	0.016	5.15E-06	16101
genus.Prevothella9.id.11183	rs1193305	G	A	-0.069	0.015	5.14E-06	10267
genus.Anaerostipes.id.1991	rs2804198	T	C	-0.050	0.011	5.14E-06	16926
genus.RuminococcaceaeUCG011.id.11368	rs4945699	C	T	-0.136	0.030	5.14E-06	3632
genus.Dialister.id.2183	rs517089	A	T	0.076	0.017	5.14E-06	11988
genus.RuminococcaceaeUCG003.id.11361	rs3013095	T	G	-0.055	0.012	5.14E-06	14409
genus.Holdemanella.id.11393	rs34187114	A	C	-0.105	0.023	5.13E-06	7704
genus.Ruminiclostridium5.id.11355	rs10848563	T	C	-0.049	0.011	5.13E-06	17397
genus.Eubacteriumeligensgroup.id.14372	rs73747127	A	T	0.103	0.023	5.13E-06	12891
genus.Parasutterella.id.2892	rs2346210	A	G	-0.073	0.016	5.13E-06	11385
genus.Alistipes.id.968	rs4718473	C	T	-0.050	0.011	5.13E-06	17571
genus.RuminococcaceaeUCG003.id.11361	rs7595179	T	C	0.073	0.016	5.13E-06	14406
genus.LachnospiraceaeND3007group.id.11317	rs9932436	A	C	-0.053	0.012	5.13E-06	15301
genus.LachnospiraceaeUCG010.id.11330	rs12555625	T	G	0.086	0.019	5.12E-06	13234
genus.Ruminococcus1.id.11373	rs4148904	C	G	-0.053	0.012	5.12E-06	16605
genus.Eggerthella.id.819	rs67968595	G	A	-0.091	0.020	5.12E-06	5147
genus.Oxalobacter.id.2978	rs725475	T	C	-0.096	0.021	5.12E-06	4634
genus.Odoribacter.id.952	rs78179984	T	C	-0.123	0.027	5.12E-06	11935
genus.Butyrvibrio.id.1993	rs12094865	G	A	0.171	0.037	5.12E-06	3480
genus.Ruminococcus1.id.11373	rs78613526	A	G	0.167	0.037	5.11E-06	7266
genus.RuminococcaceaeUCG004.id.11362	rs11801437	A	G	0.083	0.018	5.11E-06	9116
genus.RuminococcaceaeUCG004.id.11362	rs10127873	C	T	0.083	0.018	5.11E-06	9116
genus.Turicibacter.id.2162	rs8066252	G	A	0.101	0.022	5.11E-06	8928
genus.Lachnospira.id.2004	rs13422545	T	C	0.051	0.011	5.10E-06	16486

genus..Ruminococcusgavreuiiigroup.id.11342	rs2105937	G	A	0.058	0.013	5.10E-06	13364
genus.Blautia.id.1992	rs4926264	C	T	0.083	0.018	5.10E-06	18276
genus.Dialister.id.2183	rs7816464	C	T	0.060	0.013	5.10E-06	11989
genus.CandidatusSoleaferrea.id.11350	rs7765732	A	C	-0.123	0.028	5.10E-06	6145
genus.Anaerostipes.id.1991	rs1927480	G	A	-0.050	0.011	5.10E-06	16926
genus.Prevotella7.id.11182	rs62115052	G	T	0.138	0.031	5.10E-06	3489
genus.Hungatella.id.11306	rs68191502	C	T	-0.156	0.033	5.09E-06	3950
genus.Marvinbryantia.id.2005	rs2768442	C	T	-0.072	0.016	5.09E-06	11612
genus.Lactobacillus.id.1837	rs768252	G	T	-0.079	0.017	5.09E-06	6958
genus.LachnospiraceaeFCS020group.id.11314	rs9831105	G	T	0.056	0.012	5.09E-06	13772
genus..Eubacteriumventriosumgroup.id.11341	rs1959383	G	C	-0.054	0.012	5.09E-06	15287
genus.Anaerostipes.id.1991	rs10885747	C	T	-0.051	0.011	5.09E-06	16921
genus.Romboutsia.id.11347	rs16843578	T	C	-0.088	0.020	5.08E-06	14186
genus.Oxalobacter.id.2978	rs73733937	A	G	-0.136	0.030	5.08E-06	4492
genus.Eisenbergiella.id.11304	rs12421677	G	C	-0.115	0.025	5.08E-06	5582
genus.CandidatusSoleaferrea.id.11350	rs7766248	C	T	-0.123	0.028	5.07E-06	6145
genus.unknowngenus.id.2755	rs11892008	C	T	0.115	0.025	5.07E-06	8452
genus..Ruminococcusgnavusgroup.id.14376	rs28374963	T	C	0.088	0.020	5.07E-06	6327
genus.Anaerostipes.id.1991	rs1977454	G	A	-0.050	0.011	5.07E-06	16926
genus.LachnospiraceaeUCG004.id.11324	rs11849978	C	A	0.058	0.013	5.07E-06	14466
genus.Turicibacter.id.2162	rs112809819	A	C	0.098	0.022	5.07E-06	8927
genus.Sellimonas.id.14369	rs2303443	G	A	0.115	0.025	5.07E-06	3154
genus.Oxalobacter.id.2978	rs7614504	T	G	0.151	0.032	5.07E-06	4656
genus..Eubacteriumruminantiumgroup.id.11340	rs62352462	A	G	-0.164	0.038	5.07E-06	4790
genus.Romboutsia.id.11347	rs75200530	G	T	-0.191	0.042	5.07E-06	5246
genus.LachnospiraceaeNK4A136group.id.11319	rs11263806	G	A	-0.052	0.012	5.07E-06	17236
genus.Subdoligranulum.id.2070	rs9683541	C	A	-0.052	0.012	5.06E-06	17591
genus.Peptococcus.id.2037	rs6816211	G	A	-0.104	0.023	5.06E-06	5526
genus..Eubacteriumventriosumgroup.id.11341	rs10141800	C	T	-0.054	0.012	5.06E-06	15287
genus.RuminococcaceaeUCG003.id.11361	rs72674077	G	A	-0.061	0.013	5.06E-06	14412
genus.Ruminococcus1.id.11373	rs6105066	C	T	-0.061	0.013	5.06E-06	16049

genus.Bifidobacterium.id.436	rs17789633	C	A	0.055	0.012	5.06E-06	14776
genus.Marvinbryantia.id.2005	rs61884470	A	T	0.117	0.025	5.05E-06	11560
genus.LachnospiraceaeFCS020group.id.11314	rs168737	A	G	0.122	0.026	5.05E-06	12465
genus.RuminococcaceaeUCG003.id.11361	rs6757232	A	T	-0.067	0.014	5.05E-06	14004
genus.LachnospiraceaeUCG008.id.11328	rs9877951	C	T	-0.113	0.025	5.05E-06	6577
genus.Turicibacter.id.2162	rs12453630	G	A	0.098	0.022	5.05E-06	8927
genus.Sellimonas.id.14369	rs2570228	T	C	0.115	0.025	5.05E-06	3154
genus.Turicibacter.id.2162	rs113170866	A	G	0.101	0.022	5.04E-06	8949
genus.FamilyXIIIAD3011group.id.11293	rs12809959	C	T	-0.090	0.020	5.04E-06	13566
genus.Eisenbergiella.id.11304	rs11027643	A	G	0.129	0.028	5.04E-06	5583
genus.Anaerostipes.id.1991	rs2804201	T	A	-0.050	0.011	5.04E-06	16926
genus.Lactococcus.id.1851	rs1943431	G	A	0.104	0.023	5.04E-06	4054
genus..Ruminococcusgavreuiiigroup.id.11342	rs12079579	G	A	0.096	0.021	5.04E-06	12986
genus..Ruminococcusgnavusgroup.id.14376	rs2102146	A	G	-0.082	0.018	5.04E-06	6401
genus.Hungatella.id.11306	rs66516986	G	A	-0.156	0.033	5.04E-06	3950
genus.LachnospiraceaeUCG004.id.11324	rs2444826	T	C	-0.054	0.012	5.04E-06	14463
genus.RuminococcaceaeUCG004.id.11362	rs6703720	C	A	0.126	0.028	5.04E-06	8801
genus.Intestinibacter.id.11345	rs4937051	T	C	-0.136	0.030	5.03E-06	10333
genus.Coprococcus1.id.11301	rs62341982	C	G	-0.085	0.019	5.03E-06	16379
genus.RuminococcaceaeUCG004.id.11362	rs1963969	T	A	0.103	0.023	5.03E-06	9116
genus.Butyrivibrio.id.1993	rs72759722	C	T	0.172	0.037	5.03E-06	3481
genus.Marvinbryantia.id.2005	rs3125832	C	A	0.068	0.015	5.03E-06	11709
genus.RuminococcaceaeUCG004.id.11362	rs2376261	A	C	0.083	0.018	5.03E-06	9116
genus.Butyrivibrio.id.1993	rs6704046	G	A	0.172	0.037	5.02E-06	3482
genus..Eubacteriumxylanophilumgroup.id.14375	rs12980122	G	C	-0.108	0.024	5.02E-06	12039
genus.LachnospiraceaeUCG004.id.11324	rs10926163	C	G	-0.058	0.013	5.02E-06	14464
genus.Bacteroides.id.918	rs2023437	C	T	-0.078	0.017	5.02E-06	17484
genus.FamilyXIIIAD3011group.id.11293	rs6037920	T	C	-0.133	0.029	5.02E-06	10963
genus.Ruminiclostridium9.id.11357	rs9515627	G	A	0.070	0.015	5.02E-06	16725
genus.Allisonella.id.2174	rs4532668	C	A	0.119	0.026	5.01E-06	3212
genus.RuminococcaceaeUCG004.id.11362	rs73089428	A	G	0.093	0.020	5.01E-06	9502

genus..Ruminococcusgnavusgroup.id.14376	rs11864644	C	T	-0.140	0.032	5.01E-06	6241
genus.Subdoligranulum.id.2070	rs12436998	T	C	-0.051	0.011	5.01E-06	17583
genus.Phascolarctobacterium.id.2168	rs1148491	A	G	0.077	0.017	5.01E-06	11106
genus.Hungatella.id.11306	rs67484468	C	T	-0.156	0.033	5.00E-06	3950
genus.Prevotella9.id.11183	rs1193287	G	A	-0.069	0.015	5.00E-06	10270
genus.Alistipes.id.968	rs7324216	C	T	0.075	0.017	5.00E-06	17568
genus.Allisonella.id.2174	rs2306090	T	C	0.138	0.030	5.00E-06	3212
genus.Allisonella.id.2174	rs2306092	A	G	0.138	0.030	5.00E-06	3212
genus.Sutterella.id.2896	rs27641	A	C	-0.058	0.013	5.00E-06	13254
genus.Anaerostipes.id.1991	rs2769401	A	G	-0.050	0.011	5.00E-06	16926
genus.Anaerostipes.id.1991	rs2769402	C	T	-0.050	0.011	5.00E-06	16926
genus.Anaerostipes.id.1991	rs2804200	G	C	-0.050	0.011	5.00E-06	16926
genus.Alistipes.id.968	rs11088466	T	A	-0.049	0.011	4.99E-06	17571
genus.RuminococcaceaeUCG010.id.11367	rs7935775	T	A	-0.063	0.014	4.99E-06	12864
genus.Ruminiclostridium5.id.11355	rs3759374	T	C	0.049	0.011	4.99E-06	17395
genus.Eisenbergiella.id.11304	rs9652495	A	T	0.102	0.022	4.99E-06	5582
genus.Hungatella.id.11306	rs13126727	A	G	-0.156	0.033	4.99E-06	3950
genus.Alloprevotella.id.961	rs4680035	G	A	-0.120	0.026	4.99E-06	3007
genus..Eubacteriumbrachygroup.id.11296	rs9613196	A	T	-0.239	0.053	4.99E-06	3004
genus.Allisonella.id.2174	rs4743085	T	C	0.138	0.030	4.99E-06	3212
genus.Allisonella.id.2174	rs1531440	T	C	0.138	0.030	4.99E-06	3212
genus.Akkermansia.id.4037	rs6668273	G	A	0.065	0.014	4.99E-06	11863
genus.Butyrvibrio.id.1993	rs8070756	T	C	0.121	0.027	4.98E-06	3259
genus.RuminococcaceaeUCG014.id.11371	rs13382580	T	C	0.056	0.012	4.98E-06	14403
genus.Coprococcus1.id.11301	rs62341981	A	G	-0.085	0.019	4.98E-06	16379
genus..Eubacteriumventriosumgroup.id.11341	rs55939577	A	G	-0.054	0.012	4.98E-06	15289
genus.FamilyXIIIAD3011group.id.11293	rs8179997	G	A	0.060	0.013	4.98E-06	14197
genus.Parasutterella.id.2892	rs4405788	C	T	0.061	0.013	4.97E-06	11386
genus.Coprococcus3.id.11303	rs10206264	G	A	-0.070	0.015	4.97E-06	15835
genus..Eubacteriumbrachygroup.id.11296	rs2765994	T	C	0.105	0.023	4.97E-06	4001
genus.Alistipes.id.968	rs1899238	C	T	-0.050	0.011	4.96E-06	17571

genus.Fusicatenibacter.id.11305	rs1864685	C	A	-0.049	0.011	4.96E-06	17374
genus.Eubacteriumxylanophilumgroup.id.14375	rs10140184	C	A	0.058	0.013	4.96E-06	12930
genus.Parasutterella.id.2892	rs13103630	C	G	0.061	0.013	4.96E-06	11383
genus.Lactococcus.id.1851	rs17045435	A	G	-0.174	0.039	4.96E-06	4023
genus.Bifidobacterium.id.436	rs1893396	G	T	0.054	0.012	4.95E-06	14777
genus.Ruminiclostridium6.id.11356	rs72991535	G	T	0.136	0.030	4.95E-06	9642
genus.Oscillibacter.id.2063	rs9295772	A	G	-0.069	0.015	4.95E-06	8928
genus.Parasutterella.id.2892	rs823424	A	G	-0.071	0.016	4.95E-06	11386
genus.Ruminococcus1.id.11373	rs7115047	T	C	-0.051	0.011	4.95E-06	16597
genus.Holdemanella.id.11393	rs45441892	G	C	0.079	0.017	4.95E-06	7456
genus.Parasutterella.id.2892	rs10773222	T	C	-0.073	0.016	4.95E-06	11386
genus.RuminococcaceaeUCG003.id.11361	rs7581860	G	A	0.094	0.020	4.95E-06	14412
genus.Sellimonas.id.14369	rs4600608	G	A	-0.137	0.030	4.95E-06	3095
genus.Barnesiella.id.944	rs12909713	T	C	-0.055	0.012	4.95E-06	14205
genus.Bifidobacterium.id.436	rs117761464	G	A	0.231	0.050	4.94E-06	3856
genus.Ruminiclostridium6.id.11356	rs11035758	A	G	0.071	0.015	4.94E-06	13380
genus.Oscillibacter.id.2063	rs11990279	C	T	-0.082	0.018	4.94E-06	8528
genus.RuminococcaceaeUCG011.id.11368	rs12729775	C	T	-0.115	0.025	4.94E-06	3632
genus.Streptococcus.id.1853	rs6806351	C	T	-0.063	0.014	4.94E-06	15973
genus.Desulfovibrio.id.3173	rs6580353	C	T	0.077	0.017	4.94E-06	9241
genus.RuminococcaceaeUCG002.id.11360	rs10927427	C	A	-0.066	0.015	4.94E-06	17082
genus.Butyrvibrio.id.1993	rs11577669	T	A	0.172	0.037	4.94E-06	3482
genus.Butyrvibrio.id.1993	rs10925630	A	T	0.172	0.037	4.94E-06	3482
genus.Prevotella7.id.11182	rs6733012	G	A	0.146	0.032	4.93E-06	3489
genus.Eubacteriumruminantiumgroup.id.11340	rs57340348	C	T	-0.098	0.021	4.93E-06	7314
genus.Anaerostipes.id.1991	rs3932552	C	T	-0.050	0.011	4.93E-06	16925
genus.Allisonella.id.2174	rs13289813	T	C	0.138	0.030	4.93E-06	3212
genus.Lactobacillus.id.1837	rs1530559	A	G	0.080	0.018	4.93E-06	6655
genus.Fusicatenibacter.id.11305	rs8063430	C	T	-0.104	0.022	4.93E-06	15552
genus.Ruminiclostridium6.id.11356	rs677700	G	A	-0.134	0.031	4.93E-06	7876
genus.Oxalobacter.id.2978	rs6128962	A	G	-0.096	0.021	4.93E-06	4635

genus.Ruminiclostridium6.id.11356	rs72640885	T	A	0.071	0.015	4.93E-06	13381
genus.Lachnoclostridium.id.11308	rs62282803	G	A	0.083	0.018	4.93E-06	16988
genus.Lactococcus.id.1851	rs72799257	T	A	-0.156	0.035	4.93E-06	4015
genus.Escherichia.Shigella.id.3504	rs35555519	G	C	0.102	0.022	4.92E-06	12002
genus.Parasutterella.id.2892	rs1403393	A	G	-0.074	0.016	4.92E-06	11386
genus.Peptococcus.id.2037	rs10115097	G	A	0.087	0.019	4.92E-06	5656
genus.Eisenbergiella.id.11304	rs11027642	T	C	0.129	0.028	4.92E-06	5583
genus.Coprococcus1.id.11301	rs12794898	T	G	0.090	0.020	4.92E-06	15186
genus.Allisonella.id.2174	rs3747492	C	T	0.138	0.030	4.91E-06	3212
genus.FamilyXIIIAD3011group.id.11293	rs2999600	C	G	-0.055	0.012	4.91E-06	14191
genus.Intestinimonas.id.2062	rs72982915	T	C	0.183	0.040	4.91E-06	5591
genus.DefluviitaleaceaeUCG011.id.11287	rs73217031	C	T	0.166	0.036	4.91E-06	6663
genus.Anaerostipes.id.1991	rs2769409	A	G	-0.050	0.011	4.91E-06	16926
genus.Eisenbergiella.id.11304	rs1486258	T	C	0.104	0.022	4.91E-06	5583
genus.LachnospiraceaeFCS020group.id.11314	rs9919338	C	G	-0.055	0.012	4.91E-06	13768
genus.Ruminococcustorquesgroup.id.14377	rs76214837	G	T	0.076	0.017	4.91E-06	17011
genus.Bifidobacterium.id.436	rs4594504	A	C	0.074	0.016	4.91E-06	14778
genus.Parasutterella.id.2892	rs2881999	A	G	0.061	0.013	4.90E-06	11384
genus.Alistipes.id.968	rs11763175	G	A	-0.050	0.011	4.90E-06	17571
genus.Hungatella.id.11306	rs35171672	G	A	-0.156	0.033	4.90E-06	3949
genus.Turicibacter.id.2162	rs73313230	G	A	0.101	0.022	4.90E-06	8949
genus.Ruminiclostridium6.id.11356	rs7930568	C	T	0.071	0.016	4.90E-06	13367
genus.RuminococcaceaeUCG009.id.11366	rs7314333	C	G	0.080	0.017	4.90E-06	7510
genus.Actinomyces.id.423	rs61937253	C	T	0.081	0.018	4.90E-06	7424
genus.Akkermansia.id.4037	rs72663787	G	A	0.066	0.015	4.90E-06	11864
genus.Prevotella9.id.11183	rs2947262	G	C	-0.069	0.015	4.89E-06	10271
genus.Butyrvibrio.id.1993	rs11153290	C	T	-0.110	0.024	4.89E-06	3482
genus.Anaerostipes.id.1991	rs11197299	T	G	-0.051	0.011	4.89E-06	16922
genus.Akkermansia.id.4037	rs11724791	G	A	0.066	0.014	4.89E-06	11864
genus.RuminococcaceaeNK4A214group.id.11358	rs35559912	C	T	-0.093	0.020	4.89E-06	13976
genus.Sellimonas.id.14369	rs1972689	G	A	0.115	0.025	4.89E-06	3154

genus.Allisonella.id.2174	rs685403	C	G	-0.175	0.040	4.88E-06	3212
genus.Bifidobacterium.id.436	rs309154	C	T	0.075	0.016	4.88E-06	14778
genus.LachnospiraceaeNK4A136group.id.11319	rs8011015	T	G	-0.053	0.011	4.88E-06	17233
genus.RikenellaceaeRC9gutgroup.id.11191	rs9299179	G	C	-0.170	0.038	4.88E-06	3334
genus.FamilyXIIIUCG001.id.11294	rs11753849	T	C	-0.061	0.013	4.88E-06	12750
genus.RuminococcaceaeUCG009.id.11366	rs2192926	G	A	-0.089	0.019	4.88E-06	7511
genus.Tyzzzeria3.id.11335	rs7333521	C	T	-0.207	0.045	4.88E-06	4335
genus.Eubacteriumeligensgroup.id.14372	rs6923695	G	T	0.103	0.023	4.87E-06	12891
genus.unknowngenus.id.2755	rs2086613	G	A	-0.089	0.020	4.87E-06	8450
genus.Subdoligranulum.id.2070	rs76664262	A	T	0.083	0.019	4.87E-06	16712
genus.RuminococcaceaeUCG010.id.11367	rs12597105	A	G	0.067	0.014	4.87E-06	12415
genus.RuminococcaceaeNK4A214group.id.11358	rs12731	G	A	-0.053	0.012	4.87E-06	15288
genus.RuminococcaceaeUCG003.id.11361	rs76377264	A	G	-0.061	0.013	4.87E-06	14408
genus.Lactococcus.id.1851	rs10407387	A	T	0.112	0.025	4.87E-06	4058
genus.Bifidobacterium.id.436	rs861392	T	C	0.055	0.012	4.87E-06	14777
genus.Anaerostipes.id.1991	rs2769408	A	G	-0.050	0.011	4.87E-06	16926
genus.Ruminiclostridium9.id.11357	rs6082461	C	A	0.059	0.013	4.87E-06	16650
genus.LachnospiraceaeUCG004.id.11324	rs35182105	G	A	-0.110	0.024	4.87E-06	13170
genus.Bifidobacterium.id.436	rs75344046	T	C	0.232	0.051	4.86E-06	3856
genus.Holdmania.id.2157	rs34600553	G	T	-0.134	0.029	4.86E-06	8432
genus.Dialister.id.2183	rs4753063	A	G	-0.060	0.013	4.86E-06	11989
genus.Turcibacter.id.2162	rs111598486	C	T	0.099	0.022	4.86E-06	8927
genus.Sellimonas.id.14369	rs2570224	G	A	0.115	0.025	4.86E-06	3154
genus.Ruminococcus2.id.11374	rs7318991	T	A	-0.056	0.012	4.86E-06	15333
genus.Olsenella.id.822	rs1035588	G	A	-0.108	0.024	4.86E-06	3739
genus.Coprococcus1.id.11301	rs6084702	A	G	0.052	0.011	4.85E-06	16652
genus.Subdoligranulum.id.2070	rs7674928	C	G	-0.052	0.012	4.85E-06	17591
genus.Enterorhabdus.id.820	rs73331712	C	T	0.262	0.055	4.85E-06	3109
genus.Romboutsia.id.11347	rs2883972	A	G	0.073	0.016	4.85E-06	13568
genus.RuminococcaceaeUCG003.id.11361	rs4452677	A	G	0.077	0.017	4.85E-06	14412
genus.Subdoligranulum.id.2070	rs2572344	A	G	-0.052	0.012	4.84E-06	17591

genus.Anaerostipes.id.1991	rs2804209	T	C	-0.050	0.011	4.84E-06	16926
genus.Prevotella7.id.11182	rs2240542	T	C	0.121	0.026	4.84E-06	3489
genus.Alistipes.id.968	rs8130320	G	A	-0.049	0.011	4.84E-06	17571
genus.DefluviitaleaceaeUCG011.id.11287	rs4344384	T	G	0.072	0.016	4.83E-06	8180
genus.Victivallis.id.2256	rs10484765	A	G	0.113	0.025	4.83E-06	3258
genus.Flavonifractor.id.2059	rs4949766	C	T	-0.069	0.015	4.83E-06	10805
genus.Parasutterella.id.2892	rs12472351	C	A	0.061	0.013	4.83E-06	11384
genus.Escherichia.Shigella.id.3504	rs512624	G	A	-0.059	0.013	4.83E-06	11853
genus.DefluviitaleaceaeUCG011.id.11287	rs12122999	T	G	-0.083	0.018	4.83E-06	7811
genus.Eggerthella.id.819	rs76663501	T	C	0.175	0.038	4.83E-06	4814
genus.Eubacteriumhalliigroup.id.11338	rs6550770	C	T	-0.198	0.044	4.82E-06	4279
genus.Clostridiumsensustricto1.id.1873	rs12341505	A	G	0.081	0.018	4.82E-06	14118
genus.RuminococcaceaeUCG003.id.11361	rs4532474	A	G	0.077	0.017	4.82E-06	14412
genus.Coprococcus2.id.11302	rs73314336	A	G	-0.065	0.014	4.82E-06	11484
genus.Marvinbryantia.id.2005	rs1893909	G	A	-0.124	0.027	4.82E-06	11561
genus.unknowngenus.id.2001	rs2252876	T	A	0.126	0.027	4.82E-06	9310
genus.Eubacteriumruminantiumgroup.id.11340	rs606117	G	A	0.083	0.018	4.82E-06	7263
genus.Ruminiclostridium9.id.11357	rs1017205	C	T	-0.092	0.020	4.82E-06	16725
genus.RuminococcaceaeUCG003.id.11361	rs3013093	T	C	-0.055	0.012	4.81E-06	14407
genus.Adlercreutzia.id.812	rs13231526	A	C	0.143	0.031	4.81E-06	8051
genus.RikenellaceaeRC9gutgroup.id.11191	rs9887954	A	G	-0.115	0.025	4.81E-06	3330
genus.RuminococcaceaeUCG005.id.11363	rs7449320	A	C	0.060	0.013	4.81E-06	16095
genus.LachnospiraceaeUCG004.id.11324	rs9638635	T	C	0.054	0.012	4.81E-06	14463
genus.Butyricimonas.id.945	rs71428626	T	G	-0.133	0.029	4.80E-06	9776
genus.LachnospiraceaeUCG001.id.11321	rs2639368	C	T	0.087	0.019	4.80E-06	9918
genus.Akkermansia.id.4037	rs72663756	C	T	0.067	0.015	4.80E-06	11859
genus.Anaerotruncus.id.2054	rs11894866	A	G	0.056	0.012	4.80E-06	16549
genus.Allisonella.id.2174	rs13285567	A	C	0.138	0.030	4.80E-06	3212
genus.Allisonella.id.2174	rs3747490	T	G	0.138	0.030	4.80E-06	3212
genus.Allisonella.id.2174	rs3747491	A	G	0.138	0.030	4.80E-06	3212
genus.Parasutterella.id.2892	rs7440410	A	T	-0.061	0.013	4.80E-06	11378

genus.Victivallis.id.2256	rs1407532	G	A	0.114	0.025	4.79E-06	3258
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs76898927	A	G	0.123	0.027	4.79E-06	12197
genus.Coproccoccus3.id.11303	rs11080344	T	C	0.052	0.011	4.79E-06	15835
genus.Howardella.id.2000	rs58552303	A	C	-0.112	0.024	4.79E-06	3798
genus.RuminococcaceaeUCG004.id.11362	rs1597584	C	A	0.126	0.028	4.78E-06	8801
genus.Butyrvibrio.id.1993	rs28375463	C	T	0.122	0.027	4.78E-06	3259
genus.Howardella.id.2000	rs17648393	T	C	-0.106	0.023	4.78E-06	3795
genus.Anaerostipes.id.1991	rs2804205	G	C	-0.050	0.011	4.78E-06	16926
genus.Alistipes.id.968	rs7805099	G	T	-0.050	0.011	4.78E-06	17570
genus.Methanobrevibacter.id.123	rs73475126	T	G	0.208	0.045	4.77E-06	3390
genus.Turicibacter.id.2162	rs117846333	C	A	0.101	0.022	4.77E-06	8928
genus.RuminococcaceaeUCG004.id.11362	rs12127710	A	G	0.121	0.027	4.77E-06	9020
genus.RuminococcaceaeUCG004.id.11362	rs11164643	C	T	0.089	0.019	4.77E-06	9116
genus.RuminococcaceaeUCG004.id.11362	rs516741	G	T	-0.076	0.016	4.77E-06	9502
genus.LachnospiraceaeUCG004.id.11324	rs2444793	T	C	-0.054	0.012	4.77E-06	14463
genus.Butyrvibrio.id.1993	rs12726892	C	T	0.179	0.039	4.77E-06	3480
genus.Escherichia.Shigella.id.3504	rs592299	C	T	-0.059	0.013	4.77E-06	11995
genus.Butyricimonas.id.945	rs1862649	A	G	0.113	0.025	4.76E-06	10123
genus.Eubacteriumventriosumgroup.id.11341	rs10134680	T	C	-0.054	0.012	4.76E-06	15287
genus.Oscillibacter.id.2063	rs3731751	T	C	0.097	0.021	4.76E-06	8930
genus.RuminococcaceaeUCG002.id.11360	rs56266601	C	T	-0.053	0.012	4.76E-06	16997
genus.Ruminococcus1.id.11373	rs7115214	A	G	-0.052	0.011	4.76E-06	16597
genus.Coproccoccus3.id.11303	rs72821405	C	T	-0.147	0.032	4.76E-06	6177
genus.RuminococcaceaeUCG005.id.11363	rs1956453	A	G	0.065	0.014	4.76E-06	16098
genus.Ruminiclostridium9.id.11357	rs4805062	T	A	-0.092	0.020	4.76E-06	16725
genus.RuminococcaceaeUCG009.id.11366	rs12508214	T	C	-0.077	0.017	4.75E-06	7511
genus.RuminococcaceaeUCG005.id.11363	rs10873448	C	T	0.065	0.014	4.75E-06	16098
genus.Lactococcus.id.1851	rs11672300	G	C	0.112	0.025	4.75E-06	4058
genus.Anaerostipes.id.1991	rs2769405	G	A	-0.050	0.011	4.75E-06	16926
genus.Lactococcus.id.1851	rs10425269	A	G	0.112	0.025	4.75E-06	4058
genus.Roseburia.id.2012	rs9300744	T	C	-0.059	0.013	4.75E-06	17854

genus.Lactococcus.id.1851	rs17045386	C	G	-0.173	0.039	4.75E-06	4022
genus.RuminococcaceaeUCG003.id.11361	rs507855	A	G	0.054	0.012	4.75E-06	14411
genus.Butyricoccus.id.2055	rs16831418	G	T	0.077	0.017	4.75E-06	17136
genus.Adlercreutzia.id.812	rs9637706	T	C	-0.082	0.018	4.74E-06	8243
genus.Bifidobacterium.id.436	rs1435577	C	G	0.074	0.016	4.74E-06	14778
genus.RuminococcaceaeUCG003.id.11361	rs632111	A	G	0.055	0.012	4.74E-06	14412
genus.Anaerostipes.id.1991	rs2769375	T	C	-0.050	0.011	4.74E-06	16926
genus.Eubacteriumruminantiumgroup.id.11340	rs1593084	G	A	-0.141	0.031	4.74E-06	7238
genus.LachnospiraceaeUCG008.id.11328	rs29328	C	T	0.078	0.017	4.74E-06	7016
genus.Subdoligranulum.id.2070	rs17122478	G	C	-0.050	0.011	4.74E-06	17589
genus.RuminococcaceaeUCG002.id.11360	rs4836088	G	A	-0.056	0.012	4.74E-06	17084
genus.RuminococcaceaeUCG004.id.11362	rs945749	A	G	0.117	0.025	4.73E-06	9116
genus.Adlercreutzia.id.812	rs1919502	A	G	-0.082	0.018	4.73E-06	8243
genus.Anaerostipes.id.1991	rs1854243	G	C	-0.050	0.011	4.73E-06	16926
genus.RuminococcaceaeUCG011.id.11368	rs9322807	A	C	-0.136	0.030	4.73E-06	3632
genus.Allisonella.id.2174	rs12551818	T	C	0.138	0.030	4.73E-06	3212
genus.Ruminococcus1.id.11373	rs11783695	T	G	-0.073	0.016	4.73E-06	16606
genus.Bifidobacterium.id.436	rs3099429	T	A	0.073	0.016	4.73E-06	14778
genus.RuminococcaceaeUCG013.id.11370	rs11581881	T	C	0.066	0.014	4.73E-06	15730
genus.RuminococcaceaeNK4A214group.id.11358	rs147475196	G	A	-0.134	0.030	4.72E-06	9917
genus.RuminococcaceaeUCG002.id.11360	rs12985584	C	T	-0.053	0.012	4.72E-06	16995
genus.Coprococcus2.id.11302	rs2482516	T	C	0.075	0.016	4.72E-06	11483
genus.Anaerofilum.id.2053	rs1552229	G	A	-0.093	0.021	4.72E-06	5051
genus.unknowngenus.id.2071	rs2765041	A	T	-0.063	0.014	4.72E-06	12618
genus.LachnospiraceaeUCG004.id.11324	rs11157095	T	G	0.058	0.013	4.72E-06	14463
genus.FamilyXIIIAD3011group.id.11293	rs2999594	A	G	-0.055	0.012	4.72E-06	14191
genus.RikenellaceaeRC9gutgroup.id.11191	rs4717843	T	G	-0.119	0.026	4.72E-06	3220
genus.RuminococcaceaeNK4A214group.id.11358	rs34576931	C	G	-0.087	0.019	4.72E-06	14678
genus.FamilyXIIIAD3011group.id.11293	rs35202042	G	T	-0.090	0.020	4.72E-06	13565
genus.Fusicatenibacter.id.11305	rs2001236	G	C	-0.063	0.014	4.71E-06	17382
genus.unknowngenus.id.2755	rs72714475	G	C	0.118	0.026	4.71E-06	8457

genus.Bilophila.id.3170	rs542415	C	T	-0.061	0.013	4.71E-06	12777
genus.Streptococcus.id.1853	rs77558518	G	A	-0.104	0.023	4.71E-06	14949
genus.Intestinibacter.id.11345	rs490097	T	G	-0.135	0.029	4.71E-06	10812
genus.Intestinibacter.id.11345	rs540962	A	G	-0.135	0.029	4.71E-06	10812
genus.RuminococcaceaeUCG005.id.11363	rs17309930	C	A	0.065	0.014	4.71E-06	15473
genus.Holdemanella.id.11393	rs4802175	A	G	0.079	0.017	4.70E-06	7456
genus..Eubacteriumruminantiumgroup.id.11340	rs17519472	T	C	0.108	0.023	4.70E-06	7710
genus.Oscillibacter.id.2063	rs3829747	C	T	0.097	0.021	4.70E-06	8930
genus.Howardella.id.2000	rs36081916	C	T	-0.181	0.040	4.70E-06	3216
genus.Anaerostipes.id.1991	rs2769403	G	A	-0.050	0.011	4.70E-06	16926
genus.LachnospiraceaeND3007group.id.11317	rs9926643	G	A	-0.053	0.012	4.69E-06	15297
genus.Streptococcus.id.1853	rs11110077	C	G	-0.080	0.018	4.69E-06	15743
genus.Anaerostipes.id.1991	rs2769397	G	T	-0.050	0.011	4.69E-06	16924
genus.Anaerostipes.id.1991	rs2769396	G	A	-0.050	0.011	4.69E-06	16924
genus.Phascolarctobacterium.id.2168	rs1264474	C	T	0.076	0.017	4.69E-06	11105
genus..Ruminococcustorquesgroup.id.14377	rs35106244	C	T	-0.052	0.011	4.68E-06	16321
genus.Peptococcus.id.2037	rs56252928	T	C	0.126	0.029	4.68E-06	5655
genus.Anaerostipes.id.1991	rs2014785	C	T	0.052	0.011	4.68E-06	16445
genus.Anaerostipes.id.1991	rs7894126	C	T	-0.050	0.011	4.68E-06	16926
genus..Eubacteriumventriosumgroup.id.11341	rs10150913	T	A	-0.054	0.012	4.68E-06	15287
genus.Lachnoclostridium.id.11308	rs6046009	C	T	-0.049	0.011	4.67E-06	17842
genus.Parasutterella.id.2892	rs6852253	T	G	0.061	0.013	4.67E-06	11385
genus.Roseburia.id.2012	rs4748237	C	G	0.049	0.011	4.67E-06	17851
genus.Odoribacter.id.952	rs75779223	A	G	-0.123	0.027	4.67E-06	11935
genus.Ruminiclostridium6.id.11356	rs72848191	C	T	-0.096	0.022	4.67E-06	12802
genus.Anaerostipes.id.1991	rs1410304	G	A	-0.050	0.011	4.67E-06	16926
genus..Eubacteriumfissicatengroup.id.14373	rs145236068	C	T	0.204	0.045	4.66E-06	3594
genus.Eggerthella.id.819	rs28609731	C	G	-0.091	0.020	4.66E-06	5147
genus.Lachnoclostridium.id.11308	rs2876527	T	C	-0.049	0.011	4.66E-06	17842
genus.Ruminiclostridium9.id.11357	rs9522712	C	T	0.070	0.015	4.66E-06	16725
genus.Parasutterella.id.2892	rs8038877	G	A	0.061	0.013	4.66E-06	11383

genus.Romboutsia.id.11347	rs62504452	G	A	-0.071	0.016	4.66E-06	14178
genus.Veillonella.id.2198	rs742016	G	A	-0.069	0.015	4.66E-06	9279
genus.LachnospiraceaeNK4A136group.id.11319	rs34891372	G	A	-0.053	0.011	4.66E-06	17226
genus.Ruminococcus1.id.11373	rs4148894	A	G	-0.052	0.011	4.66E-06	16606
genus.RuminococcaceaeUCG003.id.11361	rs507766	T	C	0.054	0.012	4.66E-06	14411
genus.Holdemanella.id.11393	rs12513188	A	G	0.090	0.020	4.65E-06	7700
genus.RuminococcaceaeUCG002.id.11360	rs11241746	C	G	-0.055	0.012	4.65E-06	16997
genus.Eubacteriumventriosumgroup.id.11341	rs28552670	G	T	-0.054	0.012	4.65E-06	15287
genus.Ruminiclostridium6.id.11356	rs11992182	C	A	0.063	0.014	4.65E-06	13381
genus.Anaerostipes.id.1991	rs2804208	T	C	-0.050	0.011	4.65E-06	16926
genus.Eggerthella.id.819	rs12155081	C	T	-0.091	0.020	4.65E-06	5147
genus.Eubacteriumventriosumgroup.id.11341	rs12889086	A	G	0.053	0.012	4.64E-06	15289
genus.Alistipes.id.968	rs2311507	C	T	-0.050	0.011	4.64E-06	17571
genus.Hungatella.id.11306	rs35309983	A	G	-0.157	0.033	4.64E-06	3950
genus.Eubacteriumoxidoreducensgroup.id.11339	rs2973295	G	A	0.090	0.020	4.64E-06	5377
genus.Ruminiclostridium5.id.11355	rs10773980	C	T	-0.050	0.011	4.64E-06	17389
genus.FamilyXIIIAD3011group.id.11293	rs12316111	G	A	-0.090	0.020	4.64E-06	13568
genus.Prevotella7.id.11182	rs2716642	C	T	0.146	0.032	4.63E-06	3489
genus.Eubacteriumventriosumgroup.id.11341	rs390352	T	G	-0.054	0.012	4.63E-06	15284
genus.unknowngenus.id.1868	rs1388705	G	C	0.076	0.016	4.63E-06	10296
genus.Bifidobacterium.id.436	rs10171371	T	C	0.055	0.012	4.63E-06	14777
genus.Ruminococcustorquesgroup.id.14377	rs10747761	A	G	0.074	0.016	4.63E-06	17011
genus.Lactobacillus.id.1837	rs59849860	A	G	-0.104	0.022	4.62E-06	6613
genus.Holdemanella.id.11393	rs8113760	A	G	0.079	0.017	4.62E-06	7456
genus.RuminococcaceaeUCG004.id.11362	rs11164621	C	T	0.121	0.027	4.62E-06	9020
genus.Senegalimassilia.id.11160	rs13293442	T	G	0.079	0.017	4.62E-06	6923
genus.Oscillibacter.id.2063	rs137917150	A	T	-0.175	0.039	4.62E-06	5733
genus.Holdemania.id.2157	rs35979242	G	T	-0.135	0.029	4.62E-06	8432
genus.LachnospiraceaeFCS020group.id.11314	rs9848122	G	A	0.056	0.012	4.62E-06	13772
genus.Prevotella9.id.11183	rs9428102	G	A	-0.078	0.018	4.62E-06	10264
genus.Veillonella.id.2198	rs11993500	G	A	-0.077	0.016	4.62E-06	9290

genus.Ruminococcus1.id.11373	rs10929659	G	A	0.051	0.011	4.62E-06	16585
genus.Erysipelatoclostridium.id.11381	rs349421	G	T	0.086	0.019	4.61E-06	9489
genus.Turicibacter.id.2162	rs75622696	C	G	0.096	0.021	4.61E-06	8945
genus.RuminococcaceaeUCG004.id.11362	rs6679803	G	A	0.079	0.017	4.61E-06	9116
genus.Anaerostipes.id.1991	rs2769400	A	G	-0.050	0.011	4.60E-06	16926
genus.Anaerostipes.id.1991	rs2769398	A	C	-0.050	0.011	4.60E-06	16926
genus.Anaerostipes.id.1991	rs2769399	A	T	-0.050	0.011	4.60E-06	16926
genus.Slackia.id.825	rs58767323	C	G	-0.103	0.023	4.60E-06	6063
genus.Ruminiclostridium9.id.11357	rs11710813	C	T	-0.059	0.013	4.60E-06	16725
genus.Lachnospira.id.2004	rs2326833	G	C	-0.078	0.017	4.60E-06	15632
genus.LachnospiraceaeNC2004group.id.11316	rs35598946	T	G	0.097	0.021	4.59E-06	6278
genus.RuminococcaceaeUCG011.id.11368	rs12725414	G	A	-0.116	0.025	4.59E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12746253	A	G	-0.116	0.025	4.59E-06	3632
genus.Eubacteriumruminantiumgroup.id.11340	rs35482477	C	G	0.085	0.019	4.59E-06	7314
genus.Erysipelatoclostridium.id.11381	rs17804233	C	T	-0.066	0.014	4.59E-06	9783
genus.Ruminiclostridium6.id.11356	rs589368	A	G	-0.147	0.033	4.59E-06	6880
genus.Ruminococcusgnavusgroup.id.14376	rs34575570	T	G	0.082	0.018	4.58E-06	6400
genus.Anaerostipes.id.1991	rs1854244	T	C	-0.050	0.011	4.58E-06	16926
genus.Clostridiumsensustricto1.id.1873	rs116847295	T	C	0.110	0.025	4.58E-06	12910
genus.LachnospiraceaeNC2004group.id.11316	rs12734575	C	T	0.113	0.025	4.58E-06	6226
genus.Alistipes.id.968	rs12536478	A	C	-0.050	0.011	4.58E-06	17571
genus.Turicibacter.id.2162	rs59351397	T	C	-0.113	0.024	4.58E-06	8941
genus.Oscillibacter.id.2063	rs2288325	A	T	0.097	0.021	4.58E-06	8930
genus.Adlercreutzia.id.812	rs2717136	T	C	-0.130	0.028	4.58E-06	8121
genus.Parasutterella.id.2892	rs4340107	C	T	-0.074	0.016	4.57E-06	11385
genus.Ruminococcusgnavusgroup.id.14376	rs2962235	T	C	-0.083	0.018	4.57E-06	6400
genus.Paraprevotella.id.962	rs11655964	T	C	-0.081	0.017	4.57E-06	7179
genus.Dorea.id.1997	rs1899291	T	C	0.070	0.015	4.57E-06	17609
genus.Bifidobacterium.id.436	rs6707326	A	G	0.055	0.012	4.56E-06	14776
genus.Butyrivibrio.id.1993	rs406774	C	T	-0.121	0.026	4.56E-06	3482
genus.ErysipelotrichaceaeUCG003.id.11384	rs62403468	C	G	-0.072	0.016	4.56E-06	14899

genus..Eubacteriumbrachygroup.id.11296	rs2913110	T	C	0.105	0.023	4.56E-06	4001
genus.Anaerostipes.id.1991	rs2769406	A	G	-0.050	0.011	4.56E-06	16926
genus.RikenellaceaeRC9gutgroup.id.11191	rs80309088	A	G	0.174	0.038	4.56E-06	3170
genus.RuminococcaceaeUCG011.id.11368	rs10913762	T	C	-0.115	0.025	4.56E-06	3632
genus.Ruminiclostridium9.id.11357	rs12634907	A	G	-0.054	0.012	4.56E-06	16725
genus.Coprococcus1.id.11301	rs7784490	G	C	-0.052	0.011	4.55E-06	16733
genus.RuminococcaceaeNK4A214group.id.11358	rs4814689	T	C	-0.108	0.023	4.55E-06	14009
genus.Tyzzereella3.id.11335	rs3752240	A	G	0.093	0.020	4.55E-06	5325
genus.RuminococcaceaeUCG004.id.11362	rs77877730	T	G	0.126	0.028	4.55E-06	8801
genus.Sellimonas.id.14369	rs2570235	G	A	0.115	0.025	4.55E-06	3154
genus..Ruminococcusgnavusgroup.id.14376	rs12513491	C	G	-0.092	0.020	4.55E-06	6401
genus.Fusicatenibacter.id.11305	rs62187631	C	T	-0.071	0.016	4.55E-06	16522
genus.Barnesiella.id.944	rs73216113	T	A	-0.061	0.013	4.54E-06	13945
genus.Ruminiclostridium9.id.11357	rs2885862	G	C	-0.052	0.011	4.54E-06	16725
genus.Streptococcus.id.1853	rs11006999	C	T	0.100	0.022	4.54E-06	15294
genus.Adlercreutzia.id.812	rs1406514	G	A	-0.081	0.018	4.54E-06	8243
genus.Terrisporobacter.id.11348	rs7034891	C	G	-0.080	0.017	4.54E-06	6629
genus.Intestinibacter.id.11345	rs10811551	A	T	-0.112	0.024	4.54E-06	11886
genus.Bilophila.id.3170	rs4506138	C	T	0.064	0.014	4.54E-06	12856
genus.LachnospiraceaeFCS020group.id.11314	rs6469903	T	C	-0.056	0.012	4.54E-06	13772
genus.Parasutterella.id.2892	rs6551841	T	C	0.061	0.013	4.53E-06	11384
genus.Parasutterella.id.2892	rs1105118	C	A	0.061	0.013	4.53E-06	11384
genus.Ruminococcus1.id.11373	rs10769164	T	A	-0.052	0.011	4.53E-06	16595
genus.Ruminiclostridium6.id.11356	rs1433523	C	A	-0.097	0.022	4.53E-06	12802
genus.Bifidobacterium.id.436	rs10180515	T	A	0.063	0.014	4.53E-06	14778
genus.RuminococcaceaeUCG011.id.11368	rs12724525	C	A	-0.115	0.025	4.53E-06	3632
genus.Ruminiclostridium9.id.11357	rs2117764	A	G	-0.054	0.012	4.53E-06	16725
genus.Sutterella.id.2896	rs9563573	C	T	-0.057	0.012	4.52E-06	13253
genus..Ruminococcusgavreuiiigroup.id.11342	rs7611898	A	G	0.059	0.013	4.52E-06	13377
genus.RuminococcaceaeUCG004.id.11362	rs511258	A	G	-0.076	0.016	4.52E-06	9500
genus..Ruminococcusstorquesgroup.id.14377	rs17172374	C	A	0.076	0.017	4.52E-06	17011

genus.LachnospiraceaeUCG004.id.11324	rs11128180	G	A	0.065	0.014	4.52E-06	14466
genus.Anaerostipes.id.1991	rs2804195	A	C	-0.051	0.011	4.51E-06	16926
genus.Anaerostipes.id.1991	rs2769415	A	G	-0.051	0.011	4.51E-06	16926
genus.Hungatella.id.11306	rs79291467	T	C	-0.121	0.027	4.51E-06	3910
genus.Butyrvibrio.id.1993	rs75299367	T	C	-0.203	0.044	4.51E-06	3479
genus.Oscillibacter.id.2063	rs3731748	G	A	0.097	0.021	4.51E-06	8930
genus.Akkermansia.id.4037	rs59317921	C	T	0.063	0.014	4.51E-06	11792
genus.Subdoligranulum.id.2070	rs2171249	T	C	0.107	0.023	4.51E-06	14679
genus.RuminococcaceaeUCG011.id.11368	rs12751949	A	G	-0.116	0.025	4.50E-06	3632
genus.Butyricimonas.id.945	rs9657374	T	C	0.068	0.015	4.50E-06	10737
genus.Lactococcus.id.1851	rs17045370	C	T	-0.174	0.039	4.50E-06	4024
genus.Actinomyces.id.423	rs4146653	A	G	0.099	0.021	4.50E-06	7468
genus.unknowngenus.id.2001	rs429836	A	T	0.089	0.019	4.50E-06	9531
genus.Bifidobacterium.id.436	rs11684458	A	G	0.063	0.014	4.50E-06	14778
genus.Akkermansia.id.4037	rs1605923	T	G	0.066	0.014	4.49E-06	11864
genus.Sellimonas.id.14369	rs2622765	C	T	-0.120	0.026	4.49E-06	3154
genus.Howardella.id.2000	rs113046682	G	A	-0.159	0.034	4.49E-06	3770
genus.Ruminococcusgavreuiiigroup.id.11342	rs12539819	T	C	0.111	0.024	4.49E-06	11860
genus.Blautia.id.1992	rs682885	G	A	-0.049	0.011	4.49E-06	18274
genus.RuminococcaceaeUCG004.id.11362	rs73000234	T	C	0.121	0.027	4.49E-06	9020
genus.Intestinibacter.id.11345	rs12508754	G	C	0.067	0.014	4.49E-06	12300
genus.Anaerostipes.id.1991	rs1336117	C	G	-0.050	0.011	4.49E-06	16926
genus.LachnospiraceaeUCG008.id.11328	rs34065175	G	A	-0.078	0.017	4.49E-06	7016
genus.LachnospiraceaeND3007group.id.11317	rs9921691	C	T	-0.053	0.012	4.49E-06	15301
genus.Actinomyces.id.423	rs34583783	T	G	0.127	0.027	4.49E-06	7468
genus.Olsenella.id.822	rs6046522	T	C	0.123	0.027	4.48E-06	3705
genus.Phascolarctobacterium.id.2168	rs12468366	C	T	0.063	0.014	4.48E-06	11110
genus.LachnospiraceaeUCG004.id.11324	rs6665422	T	A	-0.058	0.013	4.48E-06	14464
genus.Paraprevotella.id.962	rs2058085	A	C	-0.081	0.017	4.48E-06	7179
genus.ErysipelotrichaceaeUCG003.id.11384	rs59104037	G	A	-0.095	0.020	4.48E-06	14848
genus.Collinsella.id.815	rs7283749	C	T	0.076	0.017	4.48E-06	14334

genus.LachnospiraceaeND3007group.id.11317	rs13110238	G	C	-0.064	0.014	4.48E-06	15019
genus.Allisonella.id.2174	rs7874652	A	G	0.138	0.030	4.48E-06	3212
genus.Bifidobacterium.id.436	rs842359	G	C	0.055	0.012	4.48E-06	14775
genus.Anaerostipes.id.1991	rs10165968	G	A	-0.087	0.019	4.47E-06	16925
genus.Lactococcus.id.1851	rs6508726	G	A	0.113	0.025	4.47E-06	4057
genus.Lactococcus.id.1851	rs12162342	G	C	-0.174	0.039	4.47E-06	4024
genus.Sellimonas.id.14369	rs2014638	A	G	0.116	0.025	4.47E-06	3154
genus.LachnospiraceaeFCS020group.id.11314	rs10425927	A	G	0.063	0.014	4.47E-06	13542
genus..Eubacteriumbrachygroup.id.11296	rs76251755	C	G	-0.166	0.036	4.47E-06	3988
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2939708	T	A	0.090	0.020	4.46E-06	5378
genus.Lachnospira.id.2004	rs66713776	G	A	0.051	0.011	4.45E-06	16486
genus.Prevotella9.id.11183	rs1193289	T	C	-0.069	0.015	4.45E-06	10269
genus.Tyzzarella3.id.11335	rs77183374	C	T	-0.130	0.027	4.45E-06	5396
genus.Turicibacter.id.2162	rs76225419	G	C	0.102	0.022	4.45E-06	8928
genus.Lactococcus.id.1851	rs7992246	C	T	0.104	0.023	4.45E-06	4057
genus.Coprococcus2.id.11302	rs4904315	A	C	-0.066	0.014	4.44E-06	11466
genus.Paraprevotella.id.962	rs73011275	C	T	-0.123	0.026	4.44E-06	6859
genus.Anaerofilum.id.2053	rs2054677	C	T	-0.093	0.021	4.44E-06	5051
genus..Eubacteriumventriosumgroup.id.11341	rs10144730	C	T	-0.054	0.012	4.44E-06	15287
genus.RuminococcaceaeUCG003.id.11361	rs679574	C	G	0.055	0.012	4.43E-06	14412
genus..Eubacteriumhalliigroup.id.11338	rs28584818	G	A	0.126	0.027	4.43E-06	11095
genus.Subdoligranulum.id.2070	rs11167777	A	C	-0.049	0.011	4.43E-06	17591
genus.Marvinbryantia.id.2005	rs3848386	G	A	-0.061	0.013	4.43E-06	11948
genus..Eubacteriumhalliigroup.id.11338	rs10808115	C	A	-0.050	0.011	4.42E-06	16566
genus.Intestinibacter.id.11345	rs4937048	G	A	-0.137	0.030	4.42E-06	10333
genus.RikenellaceaeRC9gutgroup.id.11191	rs2998141	C	T	-0.136	0.029	4.42E-06	3330
genus.Anaerostipes.id.1991	rs60983350	A	G	-0.054	0.012	4.42E-06	16344
genus.LachnospiraceaeUCG001.id.11321	rs7034160	A	G	-0.066	0.014	4.42E-06	10150
genus.Lachnoclostridium.id.11308	rs4738679	A	G	-0.052	0.011	4.42E-06	17921
genus.CandidatusSoleaferrea.id.11350	rs11153159	C	G	-0.128	0.029	4.42E-06	6101
genus.Allisonella.id.2174	rs4743062	C	A	0.141	0.031	4.41E-06	3212

genus.Adlercreutzia.id.812	rs12522517	T	A	-0.105	0.023	4.41E-06	8187
genus.Enterorhabdus.id.820	rs424715	C	T	0.082	0.017	4.41E-06	7524
genus.Lactococcus.id.1851	rs6508727	T	C	0.113	0.025	4.41E-06	4057
genus.Tyzzereella3.id.11335	rs7158359	A	G	-0.114	0.025	4.40E-06	5396
genus.LachnospiraceaeUCG008.id.11328	rs29330	G	A	-0.079	0.017	4.40E-06	7016
genus.Intestinibacter.id.11345	rs6845847	C	T	0.068	0.015	4.40E-06	12301
genus.Peptococcus.id.2037	rs13139304	A	T	-0.091	0.020	4.40E-06	5657
genus.Slackia.id.825	rs87097	T	C	0.086	0.019	4.40E-06	6063
genus.Anaerostipes.id.1991	rs2804204	G	T	-0.051	0.011	4.40E-06	16926
genus.Odoribacter.id.952	rs113592971	G	A	-0.124	0.027	4.40E-06	11935
genus.Howardella.id.2000	rs73165663	T	C	-0.170	0.037	4.40E-06	3436
genus.ChristensenellaceaeR.7group.id.11283	rs78024454	A	T	0.112	0.025	4.39E-06	12719
genus.LachnospiraceaeUCG001.id.11321	rs11790569	G	C	-0.066	0.014	4.39E-06	10148
genus.Butyrivibrio.id.1993	rs11579933	C	A	0.179	0.039	4.39E-06	3480
genus.LachnospiraceaeUCG004.id.11324	rs2899901	A	G	0.056	0.012	4.38E-06	14451
genus.Anaerostipes.id.1991	rs2769416	A	G	-0.051	0.011	4.38E-06	16926
genus.Adlercreutzia.id.812	rs255375	T	G	-0.072	0.016	4.38E-06	8243
genus.Bifidobacterium.id.436	rs73797465	G	T	-0.095	0.021	4.38E-06	14666
genus.RuminococcaceaeUCG003.id.11361	rs3013089	A	G	-0.055	0.012	4.38E-06	14408
genus.Butyrivicoccus.id.2055	rs60131947	C	T	0.077	0.017	4.38E-06	17135
genus.Oscillibacter.id.2063	rs16934185	G	A	-0.130	0.028	4.38E-06	8492
genus.Odoribacter.id.952	rs77506928	T	C	-0.124	0.027	4.38E-06	11935
genus.Holdemania.id.2157	rs17073765	A	G	-0.136	0.029	4.37E-06	8432
genus.Butyrivibrio.id.1993	rs12079328	A	T	0.174	0.037	4.37E-06	3482
genus.Streptococcus.id.1853	rs395407	C	G	-0.079	0.017	4.37E-06	15864
genus.Ruminiclostridium9.id.11357	rs56276432	A	T	-0.054	0.012	4.36E-06	16725
genus.Paraprevotella.id.962	rs3008582	C	T	0.106	0.023	4.36E-06	7175
genus.Butyrivibrio.id.1993	rs12190634	G	A	-0.111	0.024	4.36E-06	3482
genus.Bifidobacterium.id.436	rs2176716	C	T	0.063	0.014	4.36E-06	14778
genus.Paraprevotella.id.962	rs17064682	C	T	-0.124	0.027	4.35E-06	7138
genus.Butyrivibrio.id.1993	rs463860	C	T	-0.111	0.024	4.35E-06	3482

genus.LachnospiraceaeNK4A136group.id.11319	rs12895121	C	G	-0.054	0.012	4.35E-06	17236
genus.RuminococcaceaeUCG004.id.11362	rs9882299	C	T	0.078	0.017	4.35E-06	9502
genus..Eubacteriumhalliigroup.id.11338	rs34877286	G	T	-0.053	0.012	4.35E-06	16567
genus.Odoribacter.id.952	rs76951684	A	G	-0.124	0.027	4.35E-06	11935
genus..Eubacteriumventriosumgroup.id.11341	rs398277	C	A	-0.054	0.012	4.35E-06	15282
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12906958	T	C	-0.053	0.012	4.35E-06	17380
genus.Peptococcus.id.2037	rs9409342	C	T	0.088	0.019	4.35E-06	5656
genus.RuminococcaceaeUCG002.id.11360	rs12434503	A	G	0.053	0.012	4.35E-06	17089
genus.Erysipelatoclostridium.id.11381	rs349424	T	C	0.086	0.019	4.34E-06	9489
genus.Butyrvibrio.id.1993	rs3851225	G	A	-0.111	0.024	4.34E-06	3481
genus.LachnospiraceaeUCG004.id.11324	rs12894272	G	A	0.058	0.013	4.34E-06	14463
genus.Streptococcus.id.1853	rs76717940	A	T	0.150	0.034	4.34E-06	7607
genus.RuminococcaceaeUCG011.id.11368	rs12744949	T	G	-0.116	0.025	4.34E-06	3632
genus.RuminococcaceaeUCG004.id.11362	rs9882285	C	G	0.078	0.017	4.34E-06	9502
genus.Ruminococcus1.id.11373	rs7582930	T	G	0.052	0.011	4.33E-06	16587
genus.Ruminococcus1.id.11373	rs10742764	A	T	-0.052	0.011	4.33E-06	16595
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs17169428	A	T	-0.066	0.015	4.33E-06	17380
genus.Butyrvibrio.id.1993	rs11153291	C	T	-0.111	0.024	4.32E-06	3482
genus.Marvinbryantia.id.2005	rs117634921	G	T	0.117	0.025	4.32E-06	11560
genus.Haemophilus.id.3698	rs10781340	A	G	0.095	0.020	4.32E-06	9037
genus.Coprococcus3.id.11303	rs7521171	A	G	-0.060	0.013	4.32E-06	15472
genus.unknowngenus.id.1000006162	rs55921101	T	A	-0.109	0.024	4.32E-06	5105
genus.Bifidobacterium.id.436	rs111837148	G	A	0.074	0.016	4.32E-06	14778
genus.Clostridiumsensustricto1.id.1873	rs115807074	G	A	-0.227	0.049	4.32E-06	4229
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs77919058	T	C	0.076	0.017	4.32E-06	16554
genus.Parasutterella.id.2892	rs737482	G	A	0.061	0.013	4.32E-06	11385
genus.Intestinibacter.id.11345	rs543221	G	A	-0.135	0.029	4.32E-06	10812
genus.Intestinibacter.id.11345	rs573844	G	A	-0.135	0.029	4.32E-06	10812
genus.Intestinibacter.id.11345	rs519297	C	G	-0.135	0.029	4.32E-06	10812
genus.Intestinibacter.id.11345	rs485463	T	C	-0.135	0.029	4.32E-06	10812
genus.Intestinibacter.id.11345	rs520082	G	T	-0.135	0.029	4.32E-06	10812

genus.Alistipes.id.968	rs61946576	T	C	0.075	0.017	4.32E-06	17571
genus.Peptococcus.id.2037	rs7856024	G	A	0.088	0.019	4.31E-06	5657
genus..Eubacteriumruminantiumgroup.id.11340	rs58535382	C	T	-0.171	0.039	4.31E-06	4753
genus.RuminococcaceaeUCG011.id.11368	rs4946639	T	C	-0.125	0.027	4.31E-06	3632
genus..Eubacteriumventriosumgroup.id.11341	rs28650295	G	C	-0.054	0.012	4.31E-06	15287
genus.Butyrivibrio.id.1993	rs8074459	A	G	0.118	0.026	4.30E-06	3478
genus.Parasutterella.id.2892	rs2863760	A	G	-0.062	0.014	4.30E-06	11385
genus.Phascolarctobacterium.id.2168	rs1264476	G	T	0.077	0.017	4.30E-06	11104
genus.Anaerostipes.id.1991	rs7068521	C	T	-0.051	0.011	4.30E-06	16926
genus.RuminococcaceaeUCG002.id.11360	rs11084307	T	C	-0.053	0.012	4.29E-06	17003
genus.Catenibacterium.id.2153	rs73128290	G	A	0.130	0.028	4.29E-06	3239
genus.Tyzzereella3.id.11335	rs12713341	A	G	0.125	0.028	4.29E-06	5396
genus.LachnospiraceaeNK4A136group.id.11319	rs34832190	A	G	-0.054	0.011	4.29E-06	17236
genus.Butyrivibrio.id.1993	rs240994	C	T	-0.112	0.024	4.29E-06	3482
genus.LachnospiraceaeUCG004.id.11324	rs7531340	G	T	-0.061	0.013	4.29E-06	14466
genus.FamilyXIIIUCG001.id.11294	rs62414802	T	C	-0.061	0.013	4.29E-06	12750
genus.LachnospiraceaeUCG008.id.11328	rs29329	G	A	0.078	0.017	4.29E-06	7016
genus.RuminococcaceaeUCG011.id.11368	rs11582255	C	T	-0.116	0.025	4.29E-06	3632
genus..Eubacteriumruminantiumgroup.id.11340	rs139757	C	A	-0.079	0.017	4.29E-06	7314
genus.Holdemania.id.2157	rs956437	G	A	0.074	0.016	4.28E-06	9107
genus.Anaerotruncus.id.2054	rs1272208	T	G	-0.061	0.013	4.28E-06	16117
genus.RuminococcaceaeUCG003.id.11361	rs504963	G	A	0.055	0.012	4.28E-06	14412
genus.Allisonella.id.2174	rs10817491	G	A	0.139	0.030	4.27E-06	3212
genus.Butyrivibrio.id.1993	rs11153288	A	T	-0.111	0.024	4.27E-06	3482
genus.Akkermansia.id.4037	rs113653192	C	T	0.108	0.024	4.27E-06	11215
genus.Bifidobacterium.id.436	rs75524146	C	T	0.076	0.016	4.26E-06	14778
genus.Sutterella.id.2896	rs154222	T	C	-0.058	0.013	4.26E-06	13254
genus.Butyrivibrio.id.1993	rs11653345	A	G	0.119	0.026	4.26E-06	3473
genus.RikenellaceaeRC9gutgroup.id.11191	rs10980105	C	T	-0.130	0.028	4.26E-06	3334
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs6762473	A	C	0.052	0.011	4.26E-06	17377
genus.Intestinibacter.id.11345	rs2702387	G	A	0.061	0.013	4.26E-06	12291

genus.Butyricococcus.id.2055	rs4380522	T	C	-0.050	0.011	4.26E-06	17136
genus.Allisonella.id.2174	rs2045731	G	A	0.139	0.030	4.26E-06	3212
genus.Allisonella.id.2174	rs2045730	A	G	0.139	0.030	4.26E-06	3212
genus.Allisonella.id.2174	rs35066943	T	C	0.139	0.030	4.26E-06	3212
genus.Butyrivibrio.id.1993	rs455726	A	G	-0.111	0.024	4.26E-06	3482
genus.Bifidobacterium.id.436	rs13387501	C	T	0.063	0.014	4.25E-06	14778
genus.RuminococcaceaeUCG004.id.11362	rs12084902	G	A	0.090	0.019	4.25E-06	9116
genus.FamilyXIIIAD3011group.id.11293	rs2999592	T	A	-0.056	0.012	4.25E-06	14192
genus.Bilophila.id.3170	rs45577639	G	A	0.069	0.015	4.25E-06	12628
genus.Lactobacillus.id.1837	rs768253	G	T	-0.079	0.017	4.25E-06	6958
genus.LachnospiraceaeUCG004.id.11324	rs7804470	A	G	0.055	0.012	4.25E-06	14462
genus.Sellimonas.id.14369	rs2606133	G	A	-0.119	0.026	4.25E-06	3154
genus.RuminococcaceaeUCG011.id.11368	rs12746578	A	G	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12760534	C	T	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12752452	A	G	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11583817	T	A	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12751260	T	C	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12726506	G	T	-0.116	0.025	4.25E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12732167	C	T	-0.116	0.025	4.25E-06	3632
genus.LachnospiraceaeNC2004group.id.11316	rs12131508	G	A	0.113	0.025	4.25E-06	6226
genus.Butyrivibrio.id.1993	rs11204311	T	C	0.119	0.026	4.25E-06	3473
genus.Eubacteriumeligensgroup.id.14372	rs74606150	G	C	-0.196	0.043	4.25E-06	5381
genus.Peptococcus.id.2037	rs17829549	T	C	0.128	0.029	4.24E-06	5655
genus.Bifidobacterium.id.436	rs6430545	T	A	0.054	0.012	4.24E-06	14778
genus.Barnesiella.id.944	rs62251337	G	A	-0.069	0.015	4.24E-06	13945
genus.Bilophila.id.3170	rs1241171	A	G	-0.069	0.015	4.24E-06	12856
genus.LachnospiraceaeUCG010.id.11330	rs10414815	C	T	0.105	0.023	4.24E-06	11564
genus.Bifidobacterium.id.436	rs4954558	A	G	0.063	0.014	4.24E-06	14666
genus.Hungatella.id.11306	rs13110539	G	A	-0.157	0.033	4.23E-06	3950
genus.Hungatella.id.11306	rs13137292	T	C	-0.157	0.033	4.23E-06	3950
genus.Hungatella.id.11306	rs35614407	C	T	-0.157	0.033	4.23E-06	3950

genus.Hungatella.id.11306	rs34311511	T	G	-0.157	0.033	4.23E-06	3950
genus.Hungatella.id.11306	rs68011503	G	C	-0.157	0.033	4.23E-06	3950
genus.Hungatella.id.11306	rs35201973	T	C	-0.157	0.033	4.23E-06	3950
genus.LachnospiraceaeNK4A136group.id.11319	rs35110752	C	A	-0.054	0.012	4.23E-06	17226
genus.Barnesiella.id.944	rs79795328	G	A	-0.082	0.018	4.23E-06	13657
genus.Prevotella9.id.11183	rs11686282	G	A	-0.137	0.030	4.23E-06	8343
genus.LachnospiraceaeFCS020group.id.11314	rs9603634	A	G	-0.060	0.013	4.23E-06	13772
genus.Butyrivibrio.id.1993	rs458486	C	T	-0.111	0.024	4.23E-06	3482
genus.Parasutterella.id.2892	rs7974471	C	A	0.062	0.013	4.22E-06	11381
genus.Anaerotruncus.id.2054	rs9347879	C	T	0.051	0.011	4.22E-06	16566
genus.Ruminococcus2.id.11374	rs2997412	G	A	-0.057	0.012	4.22E-06	15336
genus.Hungatella.id.11306	rs7851088	A	C	-0.129	0.029	4.22E-06	4209
genus.Subdoligranulum.id.2070	rs35940633	A	G	-0.051	0.011	4.22E-06	17582
genus.Anaerostipes.id.1991	rs11197326	A	G	-0.051	0.011	4.22E-06	16926
genus.Eubacteriumxylanophilumgroup.id.14375	rs2213117	G	T	0.088	0.019	4.21E-06	12878
genus.Anaerostipes.id.1991	rs2804192	G	A	-0.051	0.011	4.21E-06	16926
genus.LachnospiraceaeUCG010.id.11330	rs12553325	C	T	0.087	0.019	4.21E-06	13232
genus.Eubacteriumrectalegroup.id.14374	rs10248854	A	C	-0.053	0.011	4.21E-06	17348
genus.Intestinimonas.id.2062	rs11928843	A	G	-0.061	0.013	4.21E-06	11766
genus.Peptococcus.id.2037	rs1530243	A	C	-0.105	0.023	4.21E-06	5526
genus.Coprococcus1.id.11301	rs10455249	G	A	-0.051	0.011	4.20E-06	16731
genus.Parasutterella.id.2892	rs6845899	A	G	0.061	0.013	4.20E-06	11385
genus.RuminococcaceaeUCG011.id.11368	rs7524128	G	C	-0.116	0.025	4.19E-06	3632
genus.Actinomyces.id.423	rs114313061	A	C	0.082	0.018	4.19E-06	7424
genus.RuminococcaceaeUCG013.id.11370	rs12485353	A	G	-0.061	0.013	4.19E-06	16771
genus.FamilyXIIIAD3011group.id.11293	rs17156849	A	G	-0.113	0.025	4.19E-06	13352
genus.RuminococcaceaeUCG011.id.11368	rs12743585	T	A	-0.116	0.025	4.19E-06	3632
genus.Anaerostipes.id.1991	rs3900777	A	G	-0.108	0.024	4.19E-06	14693
genus.LachnospiraceaeUCG001.id.11321	rs12079242	T	G	0.070	0.015	4.19E-06	10150
genus.Allisonella.id.2174	rs3827484	G	A	0.138	0.030	4.18E-06	3212
genus.Parasutterella.id.2892	rs6570145	C	T	0.086	0.018	4.18E-06	11077

genus.Ruminiclostridium5.id.11355	rs10848565	C	G	-0.050	0.011	4.18E-06	17397
genus.Ruminococcus2.id.11374	rs58681734	G	A	0.072	0.016	4.18E-06	15338
genus.Anaerostipes.id.1991	rs2769395	T	A	-0.051	0.011	4.18E-06	16926
genus.Hungatella.id.11306	rs7656134	G	A	-0.157	0.033	4.18E-06	3949
genus.Senegalimassilia.id.11160	rs7225245	A	G	0.079	0.017	4.18E-06	6923
genus.Streptococcus.id.1853	rs9903102	A	C	-0.071	0.016	4.18E-06	16384
genus.LachnospiraceaeUCG010.id.11330	rs12552025	C	G	0.087	0.019	4.18E-06	13123
genus.Paraprevotella.id.962	rs11654896	A	G	-0.081	0.017	4.18E-06	7179
genus.Eggerthella.id.819	rs3851328	G	T	-0.108	0.024	4.18E-06	5147
genus.RuminococcaceaeUCG011.id.11368	rs2434357	G	A	-0.108	0.023	4.17E-06	3632
genus.Butyrvibrio.id.1993	rs455732	T	C	-0.111	0.024	4.17E-06	3482
genus.Eubacteriumnodatumgroup.id.11297	rs34195214	C	G	0.167	0.036	4.17E-06	3295
genus.CandidatusSoleaferrea.id.11350	rs10090365	G	A	-0.083	0.018	4.17E-06	6145
genus.Oxalobacter.id.2978	rs10868229	G	A	0.098	0.021	4.17E-06	4491
genus.Eubacteriumxylanophilumgroup.id.14375	rs55654754	A	G	0.061	0.013	4.17E-06	12930
genus.LachnospiraceaeUCG001.id.11321	rs3790905	A	C	0.069	0.015	4.16E-06	10149
genus.RuminococcaceaeUCG003.id.11361	rs503279	T	C	0.055	0.012	4.16E-06	14412
genus.Eisenbergiella.id.11304	rs4462860	A	G	0.094	0.020	4.16E-06	5460
genus.Odoribacter.id.952	rs116416219	C	A	-0.124	0.027	4.16E-06	11935
genus.Peptococcus.id.2037	rs4839724	T	C	0.127	0.029	4.16E-06	5656
genus.RuminococcaceaeUCG004.id.11362	rs75388354	A	C	0.129	0.028	4.16E-06	8801
genus.RuminococcaceaeUCG003.id.11361	rs10490280	T	C	-0.067	0.014	4.16E-06	14004
genus.RuminococcaceaeUCG013.id.11370	rs16918863	C	A	0.111	0.024	4.16E-06	12643
genus.Tyzzereella3.id.11335	rs6920448	T	C	-0.141	0.031	4.15E-06	5010
genus.Sutterella.id.2896	rs9537941	A	C	-0.057	0.012	4.15E-06	13254
genus.LachnospiraceaeFCS020group.id.11314	rs6779101	A	C	0.059	0.013	4.15E-06	13772
genus.RuminococcaceaeUCG011.id.11368	rs12760048	C	G	-0.116	0.025	4.15E-06	3632
genus.Intestinibacter.id.11345	rs2109677	G	A	0.069	0.015	4.15E-06	12301
genus.FamilyXIIIAD3011group.id.11293	rs2999596	C	A	-0.056	0.012	4.15E-06	14191
genus.Prevotella9.id.11183	rs2943430	C	T	-0.069	0.015	4.15E-06	10264
genus.LachnospiraceaeUCG008.id.11328	rs10741779	A	G	-0.089	0.019	4.15E-06	7016

genus.Marvinbryantia.id.2005	rs11645029	C	G	-0.061	0.013	4.15E-06	11709
genus.LachnospiraceaeNK4A136group.id.11319	rs11628089	C	T	-0.054	0.012	4.15E-06	17223
genus.Ruminiclostridium5.id.11355	rs11010061	T	C	-0.053	0.011	4.15E-06	17387
genus.Butyrivibrio.id.1993	rs7211005	T	C	0.123	0.027	4.14E-06	3259
genus.RuminococcaceaeUCG005.id.11363	rs62504976	C	T	-0.068	0.015	4.14E-06	16092
genus.Lachnoclostridium.id.11308	rs4814844	G	T	-0.049	0.011	4.14E-06	17842
genus.Eubacteriumbrachygroup.id.11296	rs74323458	C	T	-0.164	0.036	4.14E-06	3999
genus.Eubacteriumbrachygroup.id.11296	rs11186828	G	A	-0.164	0.036	4.14E-06	3999
genus.Butyrivibrio.id.1993	rs10872068	C	G	-0.111	0.024	4.14E-06	3481
genus.Erysipelatoclostridium.id.11381	rs67730850	A	G	0.086	0.019	4.14E-06	9484
genus.Lachnoclostridium.id.11308	rs6075502	T	C	-0.050	0.011	4.14E-06	17842
genus.Turicibacter.id.2162	rs61265175	C	G	-0.086	0.019	4.14E-06	8941
genus.Howardella.id.2000	rs13241441	G	T	-0.182	0.040	4.13E-06	3216
genus.Intestinibacter.id.11345	rs7034161	A	T	-0.104	0.023	4.13E-06	12298
genus.Anaerostipes.id.1991	rs2804212	G	C	-0.051	0.011	4.13E-06	16926
genus.Bifidobacterium.id.436	rs2090660	C	T	0.064	0.014	4.13E-06	14666
genus.LachnospiraceaeFCS020group.id.11314	rs366924	A	T	0.123	0.026	4.13E-06	12465
genus.Anaerostipes.id.1991	rs2784811	C	T	-0.051	0.011	4.12E-06	16926
genus.unknowngenus.id.1868	rs2881479	A	T	-0.086	0.019	4.12E-06	10294
genus.Anaerostipes.id.1991	rs1410306	G	A	-0.051	0.011	4.12E-06	16926
genus.Intestinimonas.id.2062	rs1859797	A	G	0.060	0.013	4.12E-06	11766
genus.Fusicatenibacter.id.11305	rs12727625	G	A	-0.057	0.012	4.12E-06	17382
genus.Coprococcus2.id.11302	rs9323788	T	C	-0.066	0.014	4.12E-06	11486
genus.Hungatella.id.11306	rs67776571	A	G	-0.157	0.033	4.12E-06	3950
genus.Roseburia.id.2012	rs2943022	C	T	0.049	0.011	4.11E-06	17854
genus.RuminococcaceaeUCG003.id.11361	rs603985	T	C	0.055	0.012	4.11E-06	14412
genus.Ruminiclostridium5.id.11355	rs11010060	A	G	-0.053	0.011	4.11E-06	17387
genus.RuminococcaceaeUCG005.id.11363	rs10873449	C	T	0.065	0.014	4.11E-06	16098
genus.Akkermansia.id.4037	rs12501826	G	C	0.067	0.014	4.11E-06	11864
genus.Sutterella.id.2896	rs1536384	T	C	-0.057	0.012	4.11E-06	13254
genus.Anaerofilum.id.2053	rs10802456	A	G	0.098	0.021	4.11E-06	4933

genus.Butyricimonas.id.945	rs868015	G	A	0.066	0.014	4.11E-06	10737
genus.Veillonella.id.2198	rs7845890	A	T	-0.077	0.016	4.10E-06	9290
genus.ErysipelotrichaceaeUCG003.id.11384	rs28394575	T	A	0.104	0.023	4.10E-06	13863
genus.Ruminiclostridium9.id.11357	rs113048721	G	C	0.060	0.013	4.10E-06	16719
genus.Olsenella.id.822	rs1555528	T	A	-0.110	0.024	4.10E-06	3739
genus.Eubacteriumrectalegroup.id.14374	rs16960159	G	C	-0.157	0.034	4.10E-06	8334
genus.Odoribacter.id.952	rs17103688	A	G	-0.124	0.027	4.10E-06	11935
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs7795339	C	T	0.083	0.018	4.10E-06	16139
genus.Parasutterella.id.2892	rs10773221	A	G	-0.074	0.016	4.10E-06	11385
genus.Coprococcus3.id.11303	rs11681779	C	T	-0.069	0.015	4.10E-06	15833
genus.Alistipes.id.968	rs6563551	T	G	0.075	0.017	4.10E-06	17571
genus.RuminococcaceaeUCG003.id.11361	rs601338	G	A	0.055	0.012	4.10E-06	14410
genus.Eubacteriumbrachygroup.id.11296	rs1581240	A	G	-0.172	0.037	4.10E-06	3989
genus.Adlercreutzia.id.812	rs1528956	T	C	-0.081	0.018	4.09E-06	8243
genus.Bilophila.id.3170	rs10954636	C	G	0.064	0.014	4.09E-06	12856
genus.Oscillibacter.id.2063	rs12649930	G	T	0.122	0.026	4.09E-06	8794
genus.Eubacteriumventriosumgroup.id.11341	rs423478	C	T	-0.054	0.012	4.09E-06	15286
genus.Parasutterella.id.2892	rs1403394	T	C	-0.074	0.016	4.09E-06	11386
genus.Ruminiclostridium9.id.11357	rs6441175	G	A	-0.051	0.011	4.09E-06	16722
genus.Blautia.id.1992	rs7860714	G	A	-0.050	0.011	4.09E-06	18162
genus.RuminococcaceaeUCG014.id.11371	rs13382668	A	G	0.057	0.012	4.09E-06	14402
genus.Bifidobacterium.id.436	rs7561565	T	G	0.074	0.016	4.09E-06	14778
genus.Parasutterella.id.2892	rs10899913	A	G	-0.063	0.014	4.08E-06	11385
genus.Anaerostipes.id.1991	rs4506550	G	C	-0.051	0.011	4.08E-06	16926
genus.Ruminiclostridium5.id.11355	rs928336	A	G	0.050	0.011	4.08E-06	17397
genus.Coprococcus2.id.11302	rs11734574	T	C	-0.063	0.014	4.07E-06	11009
genus.Eubacteriumoxidoreducensgroup.id.11339	rs2939709	A	G	0.090	0.020	4.07E-06	5378
genus.Bifidobacterium.id.436	rs13020688	A	G	0.056	0.012	4.07E-06	14666
genus.Oxalobacter.id.2978	rs73027387	A	G	0.152	0.032	4.07E-06	4656
genus.Eubacteriumruminantiumgroup.id.11340	rs7000472	G	A	-0.076	0.017	4.07E-06	7739
genus.FamilyXIIIAD3011group.id.11293	rs12321489	T	C	-0.091	0.020	4.07E-06	13568

genus.Akkermansia.id.4037	rs11184341	C	G	0.066	0.014	4.06E-06	11863
genus.Clostridiuminnocuumgroup.id.14397	rs1942371	A	G	-0.158	0.034	4.06E-06	3971
genus.Eggerthella.id.819	rs2240832	T	C	-0.101	0.022	4.06E-06	5147
genus.Intestinimonas.id.2062	rs10475099	A	T	0.117	0.026	4.06E-06	11079
genus.Parasutterella.id.2892	rs6844247	T	C	0.061	0.013	4.06E-06	11385
genus.Ruminococcustorquesgroup.id.14377	rs62449732	C	T	0.076	0.017	4.06E-06	17011
genus.Butyricimonas.id.945	rs78453362	G	A	-0.149	0.033	4.06E-06	8207
genus.RuminococcaceaeUCG004.id.11362	rs1918882	T	C	0.114	0.025	4.06E-06	9020
genus.Anaerostipes.id.1991	rs11197294	C	T	-0.052	0.011	4.06E-06	16926
genus.Allisonella.id.2174	rs7859665	A	G	0.125	0.027	4.05E-06	3212
genus.Prevotella9.id.11183	rs2683314	A	G	-0.069	0.015	4.05E-06	10261
genus.Ruminococcustorquesgroup.id.14377	rs4073731	C	T	0.065	0.014	4.05E-06	17793
genus.Hungatella.id.11306	rs4691167	A	G	-0.157	0.033	4.05E-06	3950
genus.Anaerotruncus.id.2054	rs9603191	G	A	0.074	0.017	4.05E-06	16564
genus.Blautia.id.1992	rs73219072	T	C	0.057	0.012	4.05E-06	18160
genus.LachnospiraceaeFCS020group.id.11314	rs34515898	G	A	-0.192	0.043	4.04E-06	5338
genus.Hungatella.id.11306	rs12498886	T	C	-0.157	0.033	4.04E-06	3949
genus.Hungatella.id.11306	rs12510196	G	A	-0.157	0.033	4.04E-06	3949
genus.Eubacteriumoxidoreducensgroup.id.11339	rs2939707	A	C	0.090	0.020	4.03E-06	5378
genus.Parasutterella.id.2892	rs57938605	A	G	0.062	0.013	4.03E-06	11385
genus.Anaerostipes.id.1991	rs1576148	G	A	-0.051	0.011	4.03E-06	16926
genus.Paraprevotella.id.962	rs145020347	G	A	-0.125	0.026	4.03E-06	6859
genus.Butyricimonas.id.945	rs12769722	C	T	0.065	0.014	4.03E-06	10737
genus.Howardella.id.2000	rs61771805	T	A	-0.137	0.030	4.03E-06	3612
genus.Lachnospira.id.2004	rs12151435	G	A	0.051	0.011	4.03E-06	16486
genus.Gordonibacter.id.821	rs322296	A	G	0.179	0.038	4.02E-06	3595
genus.RuminococcaceaeUCG003.id.11361	rs35866622	C	T	0.057	0.012	4.02E-06	13915
genus.LachnospiraceaeUCG001.id.11321	rs8052586	C	T	0.176	0.040	4.02E-06	6004
genus.Parasutterella.id.2892	rs12439987	G	A	0.062	0.013	4.02E-06	11383
genus.LachnospiraceaeFCS020group.id.11314	rs2862810	C	A	0.056	0.012	4.02E-06	13772
genus.Ruminococcus2.id.11374	rs4073386	C	A	0.065	0.014	4.02E-06	14717

genus.LachnospiraceaeUCG010.id.11330	rs77212921	T	G	0.082	0.018	4.02E-06	13122
genus.Anaerostipes.id.1991	rs10885738	A	T	-0.051	0.011	4.01E-06	16926
genus.Butyricimonas.id.945	rs2591802	C	A	0.066	0.015	4.01E-06	10737
genus.Alloprevotella.id.961	rs1896135	A	G	0.138	0.029	4.01E-06	3009
genus.Streptococcus.id.1853	rs11925530	A	C	0.106	0.023	4.01E-06	15220
genus.Eubacteriumnodatumgroup.id.11297	rs66522207	A	C	-0.160	0.034	4.01E-06	3271
genus.Peptococcus.id.2037	rs10117790	A	G	0.088	0.019	4.01E-06	5656
genus.LachnospiraceaeFCS020group.id.11314	rs7017267	T	C	-0.056	0.012	4.01E-06	13772
genus.Lactobacillus.id.1837	rs1590596	G	C	-0.105	0.022	4.01E-06	6655
genus.Dorea.id.1997	rs4793307	T	C	0.057	0.012	4.01E-06	17600
genus.RuminococcaceaeUCG003.id.11361	rs516316	G	C	0.055	0.012	4.00E-06	14412
genus.Anaerostipes.id.1991	rs2804186	T	C	-0.051	0.011	4.00E-06	16926
genus.Sellimonas.id.14369	rs2570236	G	A	0.116	0.025	4.00E-06	3154
genus.Akkermansia.id.4037	rs12498518	C	T	0.067	0.014	3.99E-06	11864
genus.Ruminiclostridium5.id.11355	rs113753996	C	T	0.082	0.017	3.99E-06	16680
genus.Anaerofilum.id.2053	rs4971306	A	G	0.099	0.021	3.99E-06	4935
genus.Streptococcus.id.1853	rs7966796	A	G	-0.084	0.018	3.99E-06	15743
genus.RuminococcaceaeUCG010.id.11367	rs591790	C	T	-0.057	0.012	3.98E-06	12875
genus.Anaerostipes.id.1991	rs28414370	G	C	-0.052	0.011	3.98E-06	16926
genus.Prevotella9.id.11183	rs2672227	A	G	-0.069	0.015	3.98E-06	10259
genus.Anaerostipes.id.1991	rs11197320	C	T	-0.051	0.011	3.98E-06	16926
genus.Sellimonas.id.14369	rs2187447	C	A	0.243	0.053	3.98E-06	3028
genus.Sellimonas.id.14369	rs6433790	T	C	-0.139	0.030	3.98E-06	3095
genus.Veillonella.id.2198	rs11928782	T	C	0.075	0.016	3.98E-06	9287
genus.Butyrivibrio.id.1993	rs12744713	A	G	0.174	0.037	3.97E-06	3482
genus.Allisonella.id.2174	rs4463540	G	A	0.140	0.030	3.97E-06	3212
genus.Lactococcus.id.1851	rs3850347	C	T	-0.175	0.039	3.97E-06	4023
genus.FamilyXIIIAD3011group.id.11293	rs17469314	C	T	-0.091	0.020	3.97E-06	13563
genus.Terrisporobacter.id.11348	rs2872237	A	C	-0.081	0.018	3.97E-06	6632
genus.ChristensenellaceaeR.7group.id.11283	rs892686	G	A	0.051	0.011	3.97E-06	16325
genus.Alistipes.id.968	rs6563550	C	T	0.075	0.017	3.97E-06	17571

genus.Paraprevotella.id.962	rs58506674	T	G	-0.081	0.017	3.97E-06	7179
genus.RuminococcaceaeUCG003.id.11361	rs67401159	A	G	-0.106	0.022	3.97E-06	13329
genus.RuminococcaceaeUCG011.id.11368	rs11582754	C	G	-0.116	0.025	3.96E-06	3632
genus.Bifidobacterium.id.436	rs76671854	G	C	-0.085	0.018	3.96E-06	13806
genus..Eubacteriumrectalegroup.id.14374	rs10910426	A	G	0.050	0.011	3.96E-06	17350
genus.Anaerostipes.id.1991	rs2769394	C	A	-0.051	0.011	3.96E-06	16926
genus.Turicibacter.id.2162	rs2834977	C	T	-0.096	0.021	3.96E-06	8946
genus.RuminococcaceaeUCG011.id.11368	rs12409903	A	G	-0.116	0.025	3.95E-06	3632
genus.Paraprevotella.id.962	rs10044793	A	C	-0.099	0.021	3.95E-06	7175
genus.Ruminococcus2.id.11374	rs75140805	G	T	0.084	0.018	3.95E-06	14249
genus.Ruminococcus1.id.11373	rs4148893	C	G	-0.052	0.011	3.95E-06	16607
genus.Alistipes.id.968	rs2119444	G	A	-0.051	0.011	3.95E-06	17571
genus.Peptococcus.id.2037	rs1530244	C	T	-0.106	0.023	3.94E-06	5526
genus.Anaerostipes.id.1991	rs1576149	G	T	-0.051	0.011	3.94E-06	16926
genus.Fusicatenibacter.id.11305	rs2039204	A	T	-0.050	0.011	3.94E-06	17383
genus.Fusicatenibacter.id.11305	rs3303	C	T	-0.095	0.020	3.94E-06	16877
genus.Holdemania.id.2157	rs12865390	T	C	-0.134	0.029	3.94E-06	8432
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2939711	T	A	0.090	0.020	3.94E-06	5377
genus..Ruminococcustorquesgroup.id.14377	rs516246	C	T	-0.049	0.011	3.94E-06	17798
genus.RuminococcaceaeUCG011.id.11368	rs4418554	T	A	-0.116	0.025	3.93E-06	3632
genus.Lachnospira.id.2004	rs11029029	G	C	-0.061	0.013	3.93E-06	16492
genus.Slackia.id.825	rs874123	G	A	-0.122	0.026	3.93E-06	6063
genus.Butyrvibrio.id.1993	rs11153294	C	T	-0.111	0.024	3.92E-06	3482
genus.Ruminiclostridium5.id.11355	rs4007287	G	A	-0.053	0.012	3.92E-06	17397
genus.RuminococcaceaeUCG011.id.11368	rs11582995	A	G	-0.116	0.025	3.92E-06	3632
genus.Allisonella.id.2174	rs3747510	T	C	0.139	0.030	3.92E-06	3212
genus.LachnospiraceaeFCS020group.id.11314	rs2862811	C	T	0.056	0.012	3.92E-06	13772
genus.Ruminiclostridium6.id.11356	rs7930449	C	A	0.071	0.015	3.92E-06	13381
genus.Peptococcus.id.2037	rs17762161	G	C	0.129	0.029	3.92E-06	5656
genus.Streptococcus.id.1853	rs9895557	C	T	-0.051	0.011	3.92E-06	16387
genus.Alistipes.id.968	rs67281112	C	G	0.063	0.014	3.92E-06	17090

genus..Eubacteriumventriosumgroup.id.11341	rs11872789	C	T	0.057	0.012	3.91E-06	15286
genus.Alistipes.id.968	rs1583863	G	A	-0.051	0.011	3.91E-06	17570
genus.Allisonella.id.2174	rs1057419	G	A	0.121	0.026	3.91E-06	3212
genus.Lachnoclostridium.id.11308	rs6075505	A	G	-0.049	0.011	3.91E-06	17842
genus.Bifidobacterium.id.436	rs503227	T	C	0.074	0.016	3.91E-06	14777
genus.Hungatella.id.11306	rs35742826	C	T	-0.158	0.033	3.91E-06	3950
genus.FamilyXIIIAD3011group.id.11293	rs16940167	T	C	0.073	0.016	3.91E-06	14201
genus..Eubacteriumfissicatenagroup.id.14373	rs7587617	G	A	0.129	0.029	3.91E-06	3550
genus.Ruminiclostridium9.id.11357	rs1105489	G	A	0.057	0.012	3.90E-06	16725
genus.Peptococcus.id.2037	rs2417299	C	T	0.088	0.019	3.90E-06	5656
genus.Marvinbryantia.id.2005	rs2724814	G	A	-0.077	0.016	3.90E-06	11612
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2380733	G	T	0.090	0.020	3.90E-06	5378
genus.Butyricimonas.id.945	rs62130338	A	G	-0.073	0.016	3.90E-06	10557
genus.Howardella.id.2000	rs609894	G	C	-0.111	0.024	3.90E-06	3798
genus.Oxalobacter.id.2978	rs13264905	C	T	0.140	0.030	3.89E-06	4649
genus.Eisenbergiella.id.11304	rs1603648	A	T	0.104	0.022	3.89E-06	5582
genus.Eggerthella.id.819	rs6967524	C	T	-0.092	0.020	3.89E-06	5147
genus.Dialister.id.2183	rs7829832	A	C	0.061	0.013	3.89E-06	11989
genus.FamilyXIIIAD3011group.id.11293	rs62029761	G	A	0.129	0.028	3.89E-06	9655
genus.Ruminiclostridium9.id.11357	rs62289792	C	T	-0.052	0.011	3.89E-06	16725
genus.Ruminiclostridium9.id.11357	rs1589526	A	C	-0.052	0.011	3.89E-06	16711
genus.Eggerthella.id.819	rs2223081	A	G	0.103	0.022	3.89E-06	5147
genus.Bifidobacterium.id.436	rs61253125	T	C	0.074	0.016	3.89E-06	14778
genus.RuminococcaceaeUCG010.id.11367	rs10281901	T	C	-0.058	0.012	3.89E-06	12871
genus.Ruminiclostridium5.id.11355	rs7974924	T	A	0.050	0.011	3.89E-06	17395
genus.LachnospiraceaeFCS020group.id.11314	rs1010830	T	G	-0.056	0.012	3.88E-06	13772
genus.Sellimonas.id.14369	rs10249740	T	A	-0.124	0.027	3.88E-06	3154
genus.Alistipes.id.968	rs4424138	T	A	-0.050	0.011	3.87E-06	17570
genus.Butyricococcus.id.2055	rs2017189	T	G	-0.051	0.011	3.87E-06	17133
genus.Anaerostipes.id.1991	rs2804187	A	T	-0.051	0.011	3.87E-06	16926
genus.Anaerostipes.id.1991	rs1328008	A	G	-0.051	0.011	3.87E-06	16926

genus.Peptococcus.id.2037	rs2013601	A	C	0.088	0.019	3.87E-06	5656
genus.Olsenella.id.822	rs35225860	G	A	-0.224	0.048	3.87E-06	3630
genus.RuminococcaceaeUCG011.id.11368	rs2211033	C	T	-0.137	0.030	3.87E-06	3632
genus.Subdoligranulum.id.2070	rs3761728	G	T	-0.054	0.012	3.87E-06	17570
genus.RuminococcaceaeUCG011.id.11368	rs12753310	G	A	-0.117	0.025	3.86E-06	3632
genus.Hungatella.id.11306	rs72759041	T	G	-0.126	0.028	3.86E-06	3910
genus.LachnospiraceaeNC2004group.id.11316	rs34514761	T	C	0.114	0.025	3.86E-06	6226
genus.Bifidobacterium.id.436	rs55809728	G	A	0.104	0.023	3.86E-06	12152
genus.RuminococcaceaeUCG011.id.11368	rs12749461	A	G	-0.116	0.025	3.86E-06	3632
genus.Streptococcus.id.1853	rs1863906	A	C	-0.085	0.018	3.86E-06	15743
genus.Alistipes.id.968	rs61946592	T	C	0.076	0.017	3.86E-06	17571
genus.Akkermansia.id.4037	rs6832927	C	A	0.109	0.024	3.85E-06	11215
genus.Bifidobacterium.id.436	rs4954556	G	A	0.117	0.026	3.85E-06	8637
genus.RuminococcaceaeUCG003.id.11361	rs57120461	C	G	0.095	0.020	3.85E-06	14410
genus.LachnospiraceaeUCG008.id.11328	rs12058175	T	C	-0.112	0.024	3.85E-06	7017
genus.RuminococcaceaeUCG011.id.11368	rs10913771	T	C	-0.116	0.025	3.85E-06	3632
genus.Faecalibacterium.id.2057	rs28425620	C	A	0.050	0.011	3.85E-06	18087
genus.Odoribacter.id.952	rs116117929	T	C	-0.125	0.027	3.84E-06	11935
genus.Parasutterella.id.2892	rs10847032	A	T	-0.074	0.016	3.84E-06	11385
genus.Butyrivibrio.id.1993	rs12757197	G	A	0.180	0.039	3.84E-06	3480
genus.Peptococcus.id.2037	rs62424017	T	G	0.128	0.029	3.84E-06	5655
genus.Butyrivibrio.id.945	rs1338636	C	T	0.065	0.014	3.83E-06	10737
genus.Odoribacter.id.952	rs75755928	A	G	-0.124	0.027	3.83E-06	11935
genus.Barnesiella.id.944	rs2057922	C	G	0.092	0.019	3.83E-06	14208
genus.Hungatella.id.11306	rs67304281	C	G	-0.158	0.033	3.83E-06	3950
genus.Paraprevotella.id.962	rs868220	A	G	-0.082	0.018	3.83E-06	7178
genus.Ruminiclostridium6.id.11356	rs11554764	T	C	0.151	0.032	3.82E-06	8955
genus.Bifidobacterium.id.436	rs4988163	G	T	0.075	0.016	3.82E-06	14778
genus.Ruminiclostridium5.id.11355	rs4765843	C	T	-0.050	0.011	3.82E-06	17397
genus.Streptococcus.id.1853	rs1333637	C	T	-0.051	0.011	3.82E-06	16386
genus.Tyzzellerella3.id.11335	rs4904511	T	A	-0.116	0.025	3.82E-06	5396

genus.Paraprevotella.id.962	rs4756632	T	G	-0.139	0.029	3.82E-06	7179
genus.Methanobrevibacter.id.123	rs894996	A	C	0.214	0.046	3.82E-06	3479
genus.Turicibacter.id.2162	rs11871873	G	C	0.101	0.022	3.82E-06	8948
genus.Oscillibacter.id.2063	rs9650608	A	G	0.071	0.015	3.81E-06	8694
genus.Phascolarctobacterium.id.2168	rs6701725	G	A	-0.063	0.014	3.81E-06	11114
genus.Erysipelatoclostridium.id.11381	rs72671245	G	A	0.088	0.019	3.81E-06	9431
genus.Howardella.id.2000	rs12452946	G	A	-0.106	0.023	3.80E-06	3800
genus.Parasutterella.id.2892	rs10012139	T	C	0.062	0.013	3.80E-06	11384
genus.Peptococcus.id.2037	rs2013563	C	T	0.088	0.019	3.80E-06	5657
genus.RuminococcaceaeUCG011.id.11368	rs10913768	T	G	-0.116	0.025	3.79E-06	3632
genus.Desulfovibrio.id.3173	rs13066142	A	G	0.119	0.025	3.79E-06	9241
genus.Anaerostipes.id.1991	rs2804214	G	C	-0.051	0.011	3.78E-06	16926
genus.Parasutterella.id.2892	rs7967869	G	A	-0.075	0.016	3.78E-06	11380
genus.Eubacteriumbrachygroup.id.11296	rs62348779	C	T	-0.201	0.043	3.78E-06	3827
genus.Streptococcus.id.1853	rs4968759	G	A	-0.052	0.011	3.78E-06	16384
genus.Eisenbergiella.id.11304	rs1603647	T	C	0.104	0.022	3.78E-06	5582
genus.FamilyXIIIUCG001.id.11294	rs76463770	G	A	0.193	0.042	3.77E-06	5651
genus.Ruminiclostridium5.id.11355	rs7474632	T	C	-0.053	0.011	3.77E-06	17388
genus.RuminococcaceaeUCG011.id.11368	rs4495640	T	C	-0.117	0.025	3.77E-06	3632
genus.RuminococcaceaeUCG003.id.11361	rs506897	G	C	0.055	0.012	3.77E-06	14412
genus.Butyrivibrio.id.1993	rs11153292	A	G	-0.112	0.024	3.77E-06	3482
genus.Allisonella.id.2174	rs10980890	T	C	0.143	0.031	3.76E-06	3212
genus.Preotella9.id.11183	rs7232121	C	G	0.067	0.014	3.76E-06	9790
genus.Lachnoclostridium.id.11308	rs6046010	T	G	-0.050	0.011	3.76E-06	17842
genus.Ruminiclostridium5.id.11355	rs2248896	T	A	0.052	0.011	3.76E-06	17396
genus.Eubacteriumxylanophilumgroup.id.14375	rs1999224	T	G	-0.095	0.020	3.75E-06	13309
genus.RuminococcaceaeUCG005.id.11363	rs35166120	G	C	-0.069	0.015	3.75E-06	16092
genus.Lachnoclostridium.id.11308	rs789029	T	C	-0.064	0.014	3.75E-06	17922
genus.Parasutterella.id.2892	rs62005974	C	T	0.062	0.013	3.75E-06	11383
genus.Bifidobacterium.id.436	rs4954189	G	A	0.055	0.012	3.75E-06	14778
genus.Lachnoclostridium.id.11308	rs575175	A	T	-0.050	0.011	3.75E-06	17910

genus.Erysipelatoclostridium.id.11381	rs340991	G	A	-0.074	0.016	3.75E-06	9781
genus.Eubacteriumbrachygroup.id.11296	rs11598383	A	C	-0.169	0.036	3.75E-06	4001
genus.Senegalimassilia.id.11160	rs11788425	A	G	0.080	0.017	3.75E-06	6923
genus.Intestinibacter.id.11345	rs4698730	A	G	0.067	0.014	3.74E-06	12302
genus.Oxalobacter.id.2978	rs11108500	G	A	-0.199	0.043	3.74E-06	4303
genus.Intestinibacter.id.11345	rs552646	G	A	-0.138	0.030	3.74E-06	10333
genus.Streptococcus.id.1853	rs80003643	T	C	-0.085	0.018	3.74E-06	15743
genus.Marvinbryantia.id.2005	rs2492951	A	G	-0.074	0.016	3.73E-06	11606
genus.Eisenbergiella.id.11304	rs12421743	C	G	-0.117	0.025	3.73E-06	5581
genus.Eubacteriumbrachygroup.id.11296	rs4862235	A	G	0.105	0.023	3.73E-06	4000
genus.FamilyXIIIAD3011group.id.11293	rs35280517	A	G	-0.084	0.018	3.73E-06	13621
genus.Akkermansia.id.4037	rs12416161	C	T	0.076	0.017	3.73E-06	11863
genus.Allisonella.id.2174	rs12555277	C	G	0.140	0.030	3.73E-06	3212
genus.Allisonella.id.2174	rs6896529	G	A	0.116	0.025	3.73E-06	3212
genus.Ruminococcustorquesgroup.id.14377	rs2251034	G	A	-0.049	0.011	3.72E-06	17798
genus.RuminococcaceaeUCG011.id.11368	rs12730909	C	T	-0.117	0.025	3.72E-06	3632
genus.Sellimonas.id.14369	rs56203279	C	T	-0.124	0.027	3.72E-06	3154
genus.RuminococcaceaeUCG004.id.11362	rs2061707	A	G	0.122	0.027	3.72E-06	9020
genus.Peptococcus.id.2037	rs991583	T	C	0.128	0.029	3.71E-06	5655
genus.Holdemania.id.2157	rs111745969	G	A	0.121	0.027	3.71E-06	8233
genus.Ruminococcustorquesgroup.id.14377	rs73130967	T	A	0.077	0.017	3.71E-06	17011
genus.Intestinibacter.id.11345	rs76991165	G	A	-0.103	0.023	3.71E-06	12303
genus.Akkermansia.id.4037	rs77055143	C	T	0.067	0.014	3.71E-06	11864
genus.Eubacteriumhalliigroup.id.11338	rs74018587	T	C	0.209	0.044	3.70E-06	3039
genus.RuminococcaceaeUCG004.id.11362	rs11711662	A	G	0.072	0.016	3.70E-06	9502
genus.RuminococcaceaeUCG011.id.11368	rs10913753	A	G	-0.117	0.025	3.70E-06	3632
genus.Anaerostipes.id.1991	rs1410305	G	A	-0.051	0.011	3.70E-06	16926
genus.FamilyXIIIAD3011group.id.11293	rs1997157	C	T	-0.090	0.019	3.70E-06	13566
genus.RuminococcaceaeUCG011.id.11368	rs7553154	T	C	-0.117	0.025	3.69E-06	3632
genus.Ruminococcustorquesgroup.id.14377	rs503279	T	C	-0.049	0.011	3.69E-06	17798
genus.RuminococcaceaeUCG002.id.11360	rs59880871	G	A	-0.056	0.012	3.69E-06	17085

genus.Slackia.id.825	rs2164672	T	A	-0.121	0.026	3.69E-06	6063
genus.ErysipelotrichaceaeUCG003.id.11384	rs35470500	T	C	-0.100	0.022	3.69E-06	13750
genus.Ruminiclostridium5.id.11355	rs2286383	C	T	0.050	0.011	3.69E-06	17395
genus.Erysipelatoclostridium.id.11381	rs622418	G	A	-0.067	0.014	3.68E-06	9783
genus..Eubacteriumbrachygroup.id.11296	rs11598977	A	T	-0.171	0.037	3.68E-06	4000
genus.Odoribacter.id.952	rs28417404	G	A	-0.073	0.016	3.68E-06	14698
genus.Bifidobacterium.id.436	rs56230617	G	A	0.071	0.016	3.68E-06	13916
genus.Anaerostipes.id.1991	rs12765024	G	A	-0.051	0.011	3.67E-06	16925
genus.Odoribacter.id.952	rs10093869	G	A	-0.058	0.013	3.67E-06	14218
genus.Lactobacillus.id.1837	rs7399816	G	A	-0.107	0.022	3.67E-06	6613
genus.Eggerthella.id.819	rs2893553	G	A	-0.092	0.020	3.67E-06	5147
genus.Parasutterella.id.2892	rs6551864	C	G	0.062	0.013	3.67E-06	11385
genus.RuminococcaceaeUCG005.id.11363	rs68105234	G	T	0.149	0.032	3.67E-06	9342
genus..Eubacteriumventriosumgroup.id.11341	rs62013253	A	G	-0.055	0.012	3.67E-06	15284
genus.Veillonella.id.2198	rs2947666	C	T	0.077	0.017	3.67E-06	8999
genus.Ruminiclostridium6.id.11356	rs144085351	C	G	-0.097	0.022	3.67E-06	12802
genus.Lachnoclostridium.id.11308	rs78068103	G	A	0.089	0.019	3.67E-06	17477
genus.Faecalibacterium.id.2057	rs28376661	G	C	0.050	0.011	3.66E-06	18087
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs73109678	A	G	-0.080	0.017	3.66E-06	17379
genus.Oxalobacter.id.2978	rs62281780	T	C	0.161	0.034	3.66E-06	4654
genus.Lachnoclostridium.id.11308	rs2024615	G	A	-0.050	0.011	3.66E-06	17842
genus.Veillonella.id.2198	rs62376424	T	C	-0.076	0.016	3.65E-06	8999
genus.Turicibacter.id.2162	rs11868511	G	A	0.102	0.022	3.65E-06	8927
genus.LachnospiraceaeUCG004.id.11324	rs2867517	T	C	0.055	0.012	3.65E-06	14464
genus.LachnospiraceaeUCG008.id.11328	rs10833132	C	G	-0.090	0.019	3.65E-06	7014
genus.RuminococcaceaeUCG004.id.11362	rs17127270	G	A	0.090	0.019	3.65E-06	9116
genus.Oxalobacter.id.2978	rs1569853	C	T	-0.138	0.030	3.65E-06	4492
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973291	A	G	0.091	0.020	3.64E-06	5378
genus.LachnospiraceaeUCG008.id.11328	rs29367	C	T	0.079	0.017	3.64E-06	7016
genus.Victivallis.id.2256	rs7624585	T	C	0.116	0.025	3.64E-06	3267
genus.CandidatusSoleaferrea.id.11350	rs10108780	G	A	-0.093	0.020	3.64E-06	5999

genus.LachnospiraceaeUCG001.id.11321	rs3790911	G	T	0.070	0.015	3.64E-06	10149
genus.Hungatella.id.11306	rs4691168	T	C	-0.158	0.033	3.64E-06	3950
genus.Bilophila.id.3170	rs3818204	G	A	0.078	0.017	3.64E-06	12628
genus.LachnospiraceaeNK4A136group.id.11319	rs58648175	A	C	-0.054	0.011	3.64E-06	17227
genus.Bifidobacterium.id.436	rs4988201	A	G	0.075	0.016	3.63E-06	14778
genus.Ruminococcus2.id.11374	rs2368224	G	T	0.200	0.044	3.63E-06	3026
genus.Catenibacterium.id.2153	rs77285108	A	G	-0.162	0.035	3.63E-06	3210
genus.Catenibacterium.id.2153	rs212393	A	G	-0.135	0.029	3.62E-06	3239
genus.Flavonifractor.id.2059	rs12794291	A	G	0.073	0.016	3.62E-06	10706
genus.Haemophilus.id.3698	rs35508	A	G	0.126	0.027	3.62E-06	8430
genus.Prevotella9.id.11183	rs2943426	C	G	-0.070	0.015	3.62E-06	10271
genus.Peptococcus.id.2037	rs9409346	A	T	0.088	0.019	3.62E-06	5655
genus.Parasutterella.id.2892	rs8039785	G	T	0.062	0.013	3.62E-06	11383
genus.Bifidobacterium.id.436	rs79176913	C	A	0.074	0.016	3.62E-06	14778
genus.Anaerostipes.id.1991	rs9420197	G	A	-0.051	0.011	3.61E-06	16926
genus.Anaerostipes.id.1991	rs1336116	A	C	-0.052	0.011	3.61E-06	16926
genus.Peptococcus.id.2037	rs6837958	C	G	-0.106	0.023	3.61E-06	5526
genus.Peptococcus.id.2037	rs2786718	A	T	0.088	0.019	3.61E-06	5656
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973292	G	A	0.091	0.020	3.60E-06	5378
genus.Prevotella9.id.11183	rs1193309	G	A	-0.070	0.015	3.60E-06	10266
genus.Phascolarctobacterium.id.2168	rs74540770	A	G	-0.121	0.026	3.60E-06	9403
genus.Sutterella.id.2896	rs9537940	C	A	-0.058	0.012	3.60E-06	13254
genus.Streptococcus.id.1853	rs11720390	A	G	0.107	0.023	3.59E-06	15220
genus.Marvinbryantia.id.2005	rs17138958	C	T	-0.126	0.027	3.59E-06	11561
genus.Paraprevotella.id.962	rs2041113	C	T	-0.082	0.017	3.59E-06	7177
genus.Bifidobacterium.id.436	rs7581814	C	G	0.074	0.016	3.59E-06	14778
genus..Ruminococcusgnavusgroup.id.14376	rs12124711	T	C	0.089	0.020	3.59E-06	6401
genus.RuminococcaceaeNK4A214group.id.11358	rs114244418	G	C	-0.175	0.037	3.59E-06	7123
genus.Alistipes.id.968	rs1107244	A	G	0.076	0.017	3.59E-06	17571
genus..Eubacteriumnodatumgroup.id.11297	rs12881844	C	T	-0.158	0.034	3.59E-06	3271
genus.Allisonella.id.2174	rs1901739	G	T	0.116	0.025	3.59E-06	3212

genus.Lactococcus.id.1851	rs9309252	A	G	-0.141	0.031	3.59E-06	4055
genus.RuminococcaceaeUCG011.id.11368	rs12731823	A	G	-0.117	0.025	3.58E-06	3632
genus.Olsenella.id.822	rs4658950	A	G	-0.111	0.024	3.58E-06	3739
genus.LachnospiraceaeND3007group.id.11317	rs28491092	A	G	-0.054	0.012	3.58E-06	15301
genus.Peptococcus.id.2037	rs9995986	G	A	-0.094	0.020	3.58E-06	5526
genus.ErysipelotrichaceaeUCG003.id.11384	rs75949021	C	T	-0.170	0.037	3.58E-06	6721
genus.Senegalimassilia.id.11160	rs12453608	C	T	-0.081	0.018	3.57E-06	6923
genus.LachnospiraceaeNK4A136group.id.11319	rs73044693	G	A	-0.108	0.023	3.57E-06	12773
genus.Bifidobacterium.id.436	rs857444	T	C	0.056	0.012	3.57E-06	14777
genus.LachnospiraceaeNK4A136group.id.11319	rs7832116	G	A	-0.071	0.015	3.57E-06	17219
genus.Hungatella.id.11306	rs67786105	C	T	-0.158	0.033	3.57E-06	3950
genus.LachnospiraceaeUCG004.id.11324	rs10226380	G	A	0.055	0.012	3.57E-06	14466
genus.FamilyXIIIAD3011group.id.11293	rs2999591	G	A	-0.056	0.012	3.57E-06	14191
genus.Barnesiella.id.944	rs12674064	T	A	-0.059	0.013	3.56E-06	14205
genus.LachnospiraceaeUCG004.id.11324	rs1593706	C	G	-0.055	0.012	3.56E-06	14461
genus.RuminococcaceaeUCG011.id.11368	rs7532155	T	C	-0.116	0.025	3.56E-06	3632
genus.Anaerotruncus.id.2054	rs5010916	G	T	0.074	0.017	3.56E-06	16566
genus.Gordonibacter.id.821	rs2889871	C	T	-0.213	0.046	3.56E-06	3483
genus.Eubacteriumnodatumgroup.id.11297	rs61841040	T	G	0.161	0.034	3.56E-06	3295
genus.Bifidobacterium.id.436	rs13410301	T	C	0.056	0.012	3.56E-06	14776
genus.RikenellaceaeRC9gutgroup.id.11191	rs17582787	G	A	-0.158	0.034	3.55E-06	3320
genus.Eubacteriumventriosumgroup.id.11341	rs3809430	C	T	-0.055	0.012	3.55E-06	15287
genus.Lachnoclostridium.id.11308	rs6112328	G	A	-0.049	0.011	3.55E-06	17840
genus.LachnospiraceaeND3007group.id.11317	rs9931821	T	C	-0.054	0.012	3.55E-06	15302
genus.Marvinbryantia.id.2005	rs11823366	A	G	0.106	0.023	3.55E-06	11614
genus.ErysipelotrichaceaeUCG003.id.11384	rs10502864	C	A	-0.083	0.018	3.55E-06	14899
genus.Lachnospira.id.2004	rs4923325	T	C	-0.061	0.013	3.55E-06	16493
genus.RuminococcaceaeUCG011.id.11368	rs11808460	C	T	-0.117	0.025	3.54E-06	3632
genus.Intestinibacter.id.11345	rs1476854	A	G	0.067	0.014	3.54E-06	12300
genus.Parasutterella.id.2892	rs7669627	T	A	0.062	0.013	3.54E-06	11385
genus.RuminococcaceaeUCG005.id.11363	rs2893871	A	G	-0.074	0.016	3.54E-06	16103

genus.unknowngenus.id.1000001215	rs79790072	C	T	0.226	0.049	3.54E-06	4104
genus.Eubacteriumrectalegroup.id.14374	rs10797540	G	A	0.050	0.011	3.53E-06	17350
genus.Peptococcus.id.2037	rs12110504	C	T	0.129	0.029	3.53E-06	5655
genus.Anaerostipes.id.1991	rs2804190	T	G	-0.051	0.011	3.53E-06	16925
genus.Roseburia.id.2012	rs6445851	A	G	-0.050	0.011	3.53E-06	17851
genus.Hungatella.id.11306	rs35397148	A	T	-0.158	0.033	3.53E-06	3950
genus.RuminococcaceaeUCG011.id.11368	rs11751952	T	A	-0.138	0.030	3.53E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11753518	G	A	-0.138	0.030	3.53E-06	3632
genus.Anaerostipes.id.1991	rs2250761	C	T	-0.051	0.011	3.53E-06	16926
genus.Ruminiclostridium5.id.11355	rs1492620	C	T	-0.083	0.018	3.53E-06	17397
genus.Marvinbryantia.id.2005	rs2815602	C	G	-0.074	0.016	3.53E-06	11612
genus.FamilyXIIIUCG001.id.11294	rs7119679	A	G	-0.081	0.017	3.52E-06	12445
genus.Howardella.id.2000	rs672217	A	G	0.164	0.035	3.52E-06	3611
genus.Oscillibacter.id.2063	rs9380083	A	G	-0.070	0.015	3.52E-06	8930
genus.DefluviitaleaceaeUCG011.id.11287	rs9725395	G	A	-0.138	0.030	3.52E-06	8011
genus.Anaerostipes.id.1991	rs2769371	G	T	-0.051	0.011	3.52E-06	16926
genus.Olsenella.id.822	rs73440467	G	A	-0.240	0.051	3.51E-06	3096
genus.Eubacteriumbrachygroup.id.11296	rs12261262	G	C	-0.163	0.036	3.51E-06	4001
genus.Butyricimonas.id.945	rs1338635	G	A	0.066	0.014	3.51E-06	10737
genus.Anaerotruncus.id.2054	rs7147473	A	G	0.054	0.012	3.51E-06	16545
genus.Roseburia.id.2012	rs2034590	C	T	0.058	0.012	3.51E-06	17843
genus.Bifidobacterium.id.436	rs6755391	C	T	0.084	0.018	3.51E-06	14778
genus.Peptococcus.id.2037	rs7766680	C	G	0.098	0.021	3.51E-06	5655
genus.RuminococcaceaeUCG011.id.11368	rs10913760	G	A	-0.117	0.025	3.51E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs10913761	A	G	-0.117	0.025	3.51E-06	3632
genus.Allisonella.id.2174	rs7020530	G	A	0.141	0.030	3.51E-06	3212
genus.Adlercreutzia.id.812	rs4869118	T	C	-0.073	0.016	3.51E-06	8243
genus.Parasutterella.id.2892	rs883311	G	A	0.062	0.013	3.50E-06	11383
genus.Eubacteriumbrachygroup.id.11296	rs11592691	A	G	-0.168	0.036	3.50E-06	3989
genus.Ruminiclostridium9.id.11357	rs62287884	G	A	-0.054	0.012	3.50E-06	16725
genus.Ruminococcusgnavusgroup.id.14376	rs62167033	C	T	0.185	0.040	3.50E-06	5194

genus..Ruminococcustorquesgroup.id.14377	rs8080469	A	G	0.049	0.011	3.50E-06	17798
genus.LachnospiraceaeNK4A136group.id.11319	rs36018216	G	A	-0.054	0.011	3.50E-06	17233
genus..Clostridiuminnocuumgroup.id.14397	rs1948423	A	T	-0.109	0.023	3.49E-06	4165
genus.Prevotella9.id.11183	rs11678834	C	A	-0.138	0.030	3.49E-06	8342
genus.Bifidobacterium.id.436	rs309150	T	A	0.074	0.016	3.49E-06	14778
genus.LachnospiraceaeUCG008.id.11328	rs11098190	C	T	0.079	0.017	3.49E-06	7016
genus.Peptococcus.id.2037	rs10824475	T	G	-0.190	0.039	3.49E-06	5607
genus.Ruminiclostridium9.id.11357	rs7613528	C	T	-0.060	0.013	3.49E-06	16725
genus.Ruminococcus2.id.11374	rs4078064	T	C	0.065	0.014	3.48E-06	14716
genus.RuminococcaceaeUCG011.id.11368	rs11582293	C	G	-0.117	0.025	3.48E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11578241	G	C	-0.117	0.025	3.48E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12729895	G	A	-0.117	0.025	3.48E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs61821011	A	G	-0.117	0.025	3.48E-06	3632
genus.Subdoligranulum.id.2070	rs4347803	G	A	0.163	0.036	3.48E-06	4312
genus.Haemophilus.id.3698	rs4822728	C	T	0.071	0.015	3.48E-06	9119
genus.Peptococcus.id.2037	rs991582	C	T	0.129	0.029	3.48E-06	5655
genus.Paraprevotella.id.962	rs9547256	G	T	-0.081	0.017	3.48E-06	7177
genus.Butyricimonas.id.945	rs11595369	C	T	0.066	0.014	3.48E-06	10737
genus.Butyrivibrio.id.1993	rs9899961	C	T	0.119	0.026	3.48E-06	3482
genus.RuminococcaceaeUCG011.id.11368	rs11802624	G	A	-0.117	0.025	3.47E-06	3632
genus.RuminococcaceaeUCG002.id.11360	rs62374284	C	T	-0.057	0.012	3.47E-06	17096
genus.Ruminiclostridium6.id.11356	rs10829821	C	T	-0.098	0.022	3.47E-06	12802
genus.Veillonella.id.2198	rs2831941	A	G	-0.076	0.016	3.47E-06	9290
genus..Ruminococcustorquesgroup.id.14377	rs602662	G	A	-0.049	0.011	3.47E-06	17798
genus.LachnospiraceaeUCG001.id.11321	rs9403580	T	C	0.108	0.023	3.47E-06	10095
genus.Hungatella.id.11306	rs13122587	T	C	-0.159	0.033	3.47E-06	3950
genus.RuminococcaceaeUCG003.id.11361	rs633372	G	A	0.055	0.012	3.47E-06	14412
genus.RuminococcaceaeUCG002.id.11360	rs72874194	C	G	-0.077	0.017	3.47E-06	16651
genus..Eubacteriumnodatumgroup.id.11297	rs35598171	T	G	0.169	0.037	3.47E-06	3270
genus.Streptococcus.id.1853	rs10826445	G	A	0.102	0.022	3.46E-06	15294
genus.Bifidobacterium.id.436	rs16831899	G	A	0.084	0.018	3.46E-06	14778

genus.Anaerostipes.id.1991	rs10509991	A	G	-0.052	0.011	3.46E-06	16925
genus.Parasutterella.id.2892	rs61021642	A	G	-0.065	0.014	3.46E-06	11386
genus.RuminococcaceaeUCG011.id.11368	rs10913744	C	G	-0.117	0.025	3.46E-06	3632
genus.Parasutterella.id.2892	rs4860163	T	C	0.062	0.013	3.46E-06	11384
genus.ChristensenellaceaeR.7group.id.11283	rs8100274	T	C	0.054	0.012	3.46E-06	16325
genus.Turicibacter.id.2162	rs2221441	C	G	0.071	0.015	3.46E-06	8720
genus.Parasutterella.id.2892	rs883312	C	T	0.062	0.013	3.46E-06	11383
genus.Paraprevotella.id.962	rs883629	T	C	-0.083	0.018	3.45E-06	7178
genus.LachnospiraceaeUCG001.id.11321	rs7858764	T	C	-0.066	0.014	3.45E-06	10148
genus.RuminococcaceaeUCG011.id.11368	rs4454499	C	G	-0.117	0.025	3.45E-06	3632
genus.ChristensenellaceaeR.7group.id.11283	rs8110494	C	A	0.054	0.012	3.45E-06	16325
genus.LachnospiraceaeUCG008.id.11328	rs7943800	T	C	-0.090	0.019	3.45E-06	7015
genus.Tyzzzeria3.id.11335	rs74583271	C	T	-0.132	0.028	3.45E-06	5377
genus.Allisonella.id.2174	rs4743069	A	C	0.141	0.030	3.45E-06	3212
genus.RuminococcaceaeUCG004.id.11362	rs11164623	G	T	0.122	0.027	3.44E-06	9020
genus.ChristensenellaceaeR.7group.id.11283	rs10401160	C	T	0.054	0.012	3.44E-06	16325
genus.ErysipelotrichaceaeUCG003.id.11384	rs62403464	C	T	-0.073	0.016	3.44E-06	14899
genus.Alistipes.id.968	rs2311504	G	A	-0.051	0.011	3.43E-06	17571
genus.Streptococcus.id.1853	rs7916740	C	T	0.102	0.022	3.43E-06	15294
genus.Oscillibacter.id.2063	rs2303539	G	A	0.098	0.021	3.43E-06	8894
genus.Intestinibacter.id.11345	rs10790751	G	A	-0.138	0.030	3.43E-06	10333
genus.Olsenella.id.822	rs2759329	A	G	-0.111	0.024	3.43E-06	3739
genus.RuminococcaceaeUCG011.id.11368	rs12744251	G	A	-0.117	0.025	3.43E-06	3632
genus.Ruminococcus1.id.11373	rs10769158	T	C	-0.051	0.011	3.43E-06	16607
genus.Oscillibacter.id.2063	rs1430431	C	G	-0.072	0.016	3.43E-06	8926
genus.RuminococcaceaeNK4A214group.id.11358	rs12642039	C	T	-0.055	0.012	3.43E-06	15276
genus.Streptococcus.id.1853	rs7901835	T	C	0.102	0.022	3.43E-06	15294
genus.Anaerostipes.id.1991	rs11197325	T	C	-0.051	0.011	3.43E-06	16925
genus.ChristensenellaceaeR.7group.id.11283	rs7250370	C	A	0.054	0.012	3.42E-06	16325
genus.Howardella.id.2000	rs525833	A	G	-0.112	0.024	3.42E-06	3798
genus.unknowngenus.id.1000000073	rs8082356	G	T	0.131	0.027	3.42E-06	10099

genus.Butyrivibrio.id.1993	rs7780509	G	T	0.150	0.032	3.42E-06	3482
genus.Veillonella.id.2198	rs2013594	C	T	-0.072	0.016	3.42E-06	9283
genus.Bacteroides.id.918	rs495004	G	C	-0.061	0.013	3.42E-06	17707
genus.Peptococcus.id.2037	rs6839387	T	C	-0.106	0.023	3.42E-06	5526
genus..Eubacteriumnodatumgroup.id.11297	rs4542578	C	G	-0.160	0.034	3.42E-06	3295
genus.Veillonella.id.2198	rs4679195	G	T	0.076	0.016	3.42E-06	9287
genus.RuminococcaceaeUCG011.id.11368	rs12758415	T	C	-0.117	0.025	3.41E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7515710	G	A	-0.117	0.025	3.41E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7538909	C	T	-0.117	0.025	3.41E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7539388	C	T	-0.117	0.025	3.41E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7515896	G	C	-0.117	0.025	3.41E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs34409173	A	G	-0.138	0.030	3.41E-06	3632
genus.Odoribacter.id.952	rs75953891	C	T	-0.125	0.027	3.41E-06	11935
genus.Anaerostipes.id.1991	rs2769391	G	A	-0.051	0.011	3.41E-06	16926
genus..Ruminococcustorquesgroup.id.14377	rs11171752	T	C	0.076	0.017	3.41E-06	17011
genus.LachnospiraceaeUCG008.id.11328	rs29374	G	A	0.082	0.018	3.41E-06	7016
genus.LachnospiraceaeUCG008.id.11328	rs36053744	C	G	0.099	0.021	3.40E-06	7016
genus.Anaerostipes.id.1991	rs2769388	C	T	-0.051	0.011	3.40E-06	16926
genus.Eggerthella.id.819	rs1860519	G	C	-0.093	0.020	3.40E-06	5147
genus.ChristensenellaceaeR.7group.id.11283	rs8103090	T	G	0.054	0.012	3.40E-06	16325
genus.Intestinibacter.id.11345	rs6590163	A	G	-0.139	0.030	3.40E-06	10333
genus.Slackia.id.825	rs112764253	A	T	0.195	0.041	3.40E-06	5634
genus.Hungatella.id.11306	rs13146247	A	G	-0.159	0.033	3.40E-06	3950
genus.Ruminiclostridium6.id.11356	rs663262	C	T	-0.135	0.031	3.39E-06	7876
genus.Akkermansia.id.4037	rs111862613	C	T	0.091	0.020	3.39E-06	11620
genus.Peptococcus.id.2037	rs1441210	T	C	-0.106	0.023	3.39E-06	5526
genus.Oscillibacter.id.2063	rs61883564	G	A	-0.101	0.022	3.39E-06	8930
genus.Streptococcus.id.1853	rs12533001	G	T	-0.067	0.014	3.39E-06	16387
genus.Coprococcus2.id.11302	rs35327820	C	A	-0.064	0.014	3.39E-06	11009
genus.LachnospiraceaeNK4A136group.id.11319	rs12885960	A	C	-0.054	0.012	3.38E-06	17232
genus.Holdemania.id.2157	rs34061796	G	T	-0.134	0.029	3.38E-06	8432

genus.Ruminococcus1.id.11373	rs6493760	T	C	0.054	0.012	3.38E-06	16126
genus..Ruminococcusgavreuiiigroup.id.11342	rs10931481	A	G	0.061	0.013	3.38E-06	13382
genus.LachnospiraceaeUCG001.id.11321	rs78848836	G	A	-0.119	0.026	3.38E-06	9506
genus.LachnospiraceaeFCS020group.id.11314	rs62140926	A	T	0.061	0.013	3.38E-06	13769
genus.Alistipes.id.968	rs17675579	A	G	-0.051	0.011	3.38E-06	17571
genus.Dorea.id.1997	rs78772518	C	A	0.138	0.028	3.38E-06	10858
genus.RuminococcaceaeUCG011.id.11368	rs10913739	C	G	-0.117	0.025	3.38E-06	3632
genus.Marvinbryantia.id.2005	rs2768428	C	T	-0.075	0.016	3.38E-06	11609
genus.Ruminiclostridium5.id.11355	rs35980734	A	G	-0.053	0.011	3.38E-06	17385
genus.Phascolarctobacterium.id.2168	rs12618201	G	A	0.064	0.014	3.38E-06	11113
genus.FamilyXIIIAD3011group.id.11293	rs1997158	C	A	-0.090	0.019	3.38E-06	13566
genus.Ruminiclostridium9.id.11357	rs1105488	C	T	0.057	0.012	3.38E-06	16725
genus.Prevotella9.id.11183	rs73127833	G	A	-0.090	0.019	3.37E-06	9385
genus.Anaerostipes.id.1991	rs10885750	C	G	-0.051	0.011	3.37E-06	16926
genus.Enterorhabdus.id.820	rs3110504	C	T	0.097	0.021	3.37E-06	7524
genus.Bifidobacterium.id.436	rs3099428	C	G	0.073	0.016	3.37E-06	14778
genus.Bifidobacterium.id.436	rs4954187	C	T	0.055	0.012	3.37E-06	14778
genus.Oxalobacter.id.2978	rs7270247	A	C	-0.108	0.023	3.37E-06	4628
genus.Oscillospira.id.2064	rs28889936	C	A	0.114	0.025	3.37E-06	9758
genus.ChristensenellaceaeR.7group.id.11283	rs7250563	T	C	0.054	0.012	3.36E-06	16324
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2939710	T	C	0.091	0.020	3.36E-06	5378
genus..Eubacteriumruminantiumgroup.id.11340	rs72836423	G	T	-0.140	0.031	3.36E-06	7285
genus..Eubacteriumventriosumgroup.id.11341	rs78250280	A	G	0.075	0.016	3.36E-06	14835
genus.Coprococcus2.id.11302	rs11159771	A	C	-0.067	0.014	3.36E-06	11483
genus.Intestinibacter.id.11345	rs7952361	T	C	-0.139	0.030	3.36E-06	10333
genus.Butyrivibrio.id.1993	rs9903225	A	G	0.119	0.026	3.35E-06	3476
genus.Anaerotruncus.id.2054	rs9594204	C	T	0.074	0.017	3.35E-06	16564
genus.Prevotella9.id.11183	rs2683316	G	A	-0.069	0.015	3.35E-06	10263
genus.RuminococcaceaeUCG013.id.11370	rs76973485	T	G	0.195	0.042	3.35E-06	5299
genus.Allisonella.id.2174	rs7034449	A	G	0.141	0.030	3.35E-06	3212
genus.Parasutterella.id.2892	rs35055552	C	T	0.110	0.024	3.35E-06	9970

genus.FamilyXIIIAD3011group.id.11293	rs13089490	T	G	0.057	0.012	3.35E-06	14199
genus.Eggerthella.id.819	rs112205261	C	T	-0.189	0.040	3.35E-06	5036
genus.LachnospiraceaeUCG008.id.11328	rs57846754	G	A	-0.110	0.024	3.35E-06	6950
genus.RuminococcaceaeUCG013.id.11370	rs7730740	T	C	0.066	0.015	3.35E-06	16470
genus.Allisonella.id.2174	rs6742198	A	G	0.149	0.032	3.35E-06	3182
genus.Howardella.id.2000	rs609430	G	T	-0.112	0.024	3.34E-06	3798
genus.RuminococcaceaeUCG011.id.11368	rs11802625	G	A	-0.117	0.025	3.34E-06	3632
genus.ChristensenellaceaeR.7group.id.11283	rs17081797	G	A	-0.090	0.020	3.34E-06	16324
genus.Bifidobacterium.id.436	rs60902646	T	C	0.095	0.020	3.34E-06	14778
genus.Tyzzarella3.id.11335	rs111752463	G	A	-0.131	0.028	3.34E-06	5396
genus.unknowngenus.id.1868	rs11128596	A	C	-0.073	0.016	3.33E-06	10301
genus.LachnospiraceaeUCG001.id.11321	rs74034332	A	G	0.168	0.038	3.33E-06	6004
genus.Escherichia.Shigella.id.3504	rs113127095	G	A	0.151	0.032	3.33E-06	8433
genus.Anaerofilum.id.2053	rs784716	G	A	0.096	0.021	3.33E-06	5051
genus.Coprococcus1.id.11301	rs1576241	G	A	-0.051	0.011	3.33E-06	16729
genus.Eubacteriumxylanophilumgroup.id.14375	rs112176119	T	C	-0.113	0.025	3.33E-06	12199
genus.Ruminococcusgnavusgroup.id.14376	rs10940770	A	C	-0.093	0.020	3.33E-06	6401
genus.LachnospiraceaeNC2004group.id.11316	rs3756315	G	A	-0.088	0.019	3.33E-06	6328
genus.Anaerofilum.id.2053	rs526159	G	A	-0.095	0.021	3.32E-06	5050
genus.Fusicatenibacter.id.11305	rs704421	G	C	0.071	0.015	3.32E-06	16119
genus.RuminococcaceaeUCG011.id.11368	rs4233177	C	T	-0.117	0.025	3.32E-06	3632
genus.LachnospiraceaeUCG001.id.11321	rs7874144	A	T	-0.066	0.014	3.32E-06	10148
genus.Anaerostipes.id.1991	rs6726833	A	C	-0.088	0.019	3.32E-06	16924
genus.Bifidobacterium.id.436	rs3099427	A	G	0.073	0.016	3.32E-06	14778
genus.ChristensenellaceaeR.7group.id.11283	rs8111067	A	G	0.054	0.012	3.32E-06	16325
genus.Butyrivibrio.id.1993	rs28552674	C	T	0.182	0.039	3.31E-06	3480
genus.Butyrivibrio.id.1993	rs12758637	G	A	0.182	0.039	3.31E-06	3480
genus.Streptococcus.id.1853	rs10448310	G	A	-0.052	0.011	3.31E-06	16384
genus.LachnospiraceaeUCG001.id.11321	rs7618566	C	T	0.086	0.018	3.31E-06	9918
genus.RuminococcaceaeUCG011.id.11368	rs4536002	G	A	0.182	0.039	3.30E-06	3632
genus.Peptococcus.id.2037	rs413827	A	G	0.110	0.024	3.30E-06	5482

genus.Bifidobacterium.id.436	rs60241067	A	T	0.063	0.013	3.30E-06	14778
genus.Oxalobacter.id.2978	rs10464997	A	G	0.138	0.029	3.30E-06	4650
genus.RuminococcaceaeUCG003.id.11361	rs4452755	C	A	-0.063	0.013	3.29E-06	14406
genus.FamilyXIIIUCG001.id.11294	rs34768213	T	C	-0.063	0.013	3.29E-06	12743
genus.Lachnospira.id.2004	rs820968	T	C	0.051	0.011	3.29E-06	16500
genus.Lactobacillus.id.1837	rs6092149	T	A	-0.080	0.017	3.29E-06	6906
genus..Eubacteriumhalliigroup.id.11338	rs949971	G	T	-0.054	0.012	3.29E-06	16566
genus.Ruminiclostridium9.id.11357	rs60745172	A	C	-0.055	0.012	3.29E-06	16725
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs78401243	A	G	0.078	0.017	3.29E-06	16554
genus.RuminococcaceaeUCG011.id.11368	rs12722736	G	T	-0.117	0.025	3.29E-06	3632
genus.RuminococcaceaeUCG009.id.11366	rs4079028	T	C	0.092	0.020	3.28E-06	7480
genus.Parasutterella.id.2892	rs6822428	C	T	0.062	0.013	3.28E-06	11385
genus.Sutterella.id.2896	rs143438747	C	T	-0.146	0.031	3.28E-06	9368
genus.LachnospiraceaeFCS020group.id.11314	rs4871050	C	G	-0.057	0.012	3.28E-06	13772
genus.Intestinibacter.id.11345	rs530007	C	G	-0.139	0.030	3.28E-06	10323
genus.Bifidobacterium.id.436	rs309162	T	A	0.074	0.016	3.28E-06	14778
genus.Streptococcus.id.1853	rs7970539	T	C	-0.086	0.018	3.28E-06	15741
genus.LachnospiraceaeFCS020group.id.11314	rs398357	A	C	0.125	0.026	3.28E-06	12465
genus.Parasutterella.id.2892	rs11736175	A	G	0.062	0.013	3.28E-06	11385
genus.Prevotella9.id.11183	rs6586820	G	A	-0.069	0.015	3.28E-06	10265
genus.RuminococcaceaeUCG010.id.11367	rs686403	T	G	-0.058	0.012	3.27E-06	12864
genus.Ruminococcus2.id.11374	rs4073396	A	C	0.065	0.014	3.27E-06	14720
genus.Turicibacter.id.2162	rs11649454	C	G	0.095	0.020	3.27E-06	8943
genus.Allisonella.id.2174	rs10981444	A	C	0.141	0.030	3.26E-06	3212
genus.Marvinbryantia.id.2005	rs72948274	C	A	-0.126	0.027	3.26E-06	11561
genus.FamilyXIIIUCG001.id.11294	rs60069152	C	G	-0.074	0.016	3.26E-06	12738
genus..Ruminococcustorquesgroup.id.14377	rs679574	C	G	-0.050	0.011	3.26E-06	17798
genus.Parasutterella.id.2892	rs6826533	A	G	0.062	0.013	3.26E-06	11384
genus.ChristensenellaceaeR.7group.id.11283	rs62467127	T	C	0.114	0.025	3.25E-06	12719
genus.RuminococcaceaeUCG011.id.11368	rs12737345	G	A	-0.118	0.025	3.25E-06	3632
genus.LachnospiraceaeUCG008.id.11328	rs971257	A	T	-0.079	0.017	3.25E-06	7016

genus.Adlercreutzia.id.812	rs1528942	G	T	-0.083	0.018	3.25E-06	8243
genus.Allisonella.id.2174	rs3827485	G	A	0.140	0.030	3.24E-06	3212
genus.Streptococcus.id.1853	rs10826446	T	C	0.102	0.022	3.24E-06	15294
genus.RuminococcaceaeUCG003.id.11361	rs2000751	A	C	0.056	0.012	3.24E-06	13915
genus.RuminococcaceaeUCG011.id.11368	rs1416002	A	G	0.182	0.039	3.24E-06	3632
genus.ErysipelotrichaceaeUCG003.id.11384	rs17798136	A	G	0.159	0.035	3.24E-06	7421
genus.Bifidobacterium.id.436	rs309172	A	G	0.072	0.016	3.23E-06	14778
genus.Parasutterella.id.2892	rs1425366	A	G	0.062	0.013	3.23E-06	11384
genus.RuminococcaceaeNK4A214group.id.11358	rs7573569	C	T	0.108	0.023	3.23E-06	14822
genus.Eisenbergiella.id.11304	rs1508033	C	A	0.092	0.020	3.23E-06	5580
genus.Anaerofilum.id.2053	rs784717	G	A	0.096	0.021	3.23E-06	5051
genus.Clostridiumsensustricto1.id.1873	rs941434	C	A	-0.183	0.039	3.22E-06	6366
genus.CandidatusSoleaferrea.id.11350	rs712066	C	T	0.107	0.023	3.22E-06	6145
genus.Intestinibacter.id.11345	rs4937042	T	C	-0.139	0.030	3.22E-06	10333
genus.Intestinibacter.id.11345	rs4937044	C	T	-0.139	0.030	3.22E-06	10333
genus.RuminococcaceaeUCG011.id.11368	rs4130266	T	G	-0.117	0.025	3.22E-06	3632
genus.Peptococcus.id.2037	rs5770862	C	T	0.162	0.036	3.22E-06	5431
genus.Streptococcus.id.1853	rs7971435	T	G	-0.086	0.018	3.22E-06	15740
genus.RuminococcaceaeUCG005.id.11363	rs114279581	G	A	-0.147	0.032	3.22E-06	8465
genus.Hungatella.id.11306	rs34316562	C	T	-0.159	0.034	3.22E-06	3947
genus.Anaerotruncus.id.2054	rs56098078	A	C	0.074	0.017	3.22E-06	16564
genus.LachnospiraceaeUCG001.id.11321	rs770063	T	C	0.089	0.019	3.22E-06	9918
genus.Sellimonas.id.14369	rs2124587	T	C	-0.121	0.026	3.21E-06	3154
genus.Bifidobacterium.id.436	rs6710892	G	A	0.084	0.018	3.21E-06	14778
genus.Ruminococcustorquesgroup.id.14377	rs28400014	G	C	-0.049	0.011	3.21E-06	17797
genus.LachnospiraceaeNK4A136group.id.11319	rs301776	T	G	0.050	0.011	3.21E-06	17234
genus.Lachnoclostridium.id.11308	rs2024618	A	G	-0.051	0.011	3.21E-06	17841
genus.RuminococcaceaeUCG010.id.11367	rs35506912	C	G	-0.069	0.015	3.21E-06	12793
genus.Flavonifractor.id.2059	rs12795080	C	G	0.074	0.016	3.21E-06	10704
genus.Streptococcus.id.1853	rs11110079	C	A	-0.083	0.018	3.21E-06	15634
genus.Oscillibacter.id.2063	rs4506202	G	A	-0.071	0.015	3.21E-06	8694

genus.Lachnoclostridium.id.11308	rs512541	G	A	0.050	0.011	3.21E-06	17913
genus.Sellimonas.id.14369	rs2570237	T	C	0.117	0.025	3.21E-06	3154
genus.Clostridiumsensustricto1.id.1873	rs6934446	G	A	-0.076	0.017	3.21E-06	14105
genus.Turicibacter.id.2162	rs11868071	G	A	0.105	0.023	3.20E-06	8928
genus.Eubacteriumnodatumgroup.id.11297	rs10130434	G	T	-0.161	0.034	3.20E-06	3295
genus.ChristensenellaceaeR.7group.id.11283	rs10412719	C	T	0.054	0.012	3.20E-06	16325
genus.Parasutterella.id.2892	rs1991220	C	T	0.062	0.013	3.20E-06	11384
genus.Anaerostipes.id.1991	rs6854026	C	T	-0.051	0.011	3.20E-06	16921
genus.Anaerostipes.id.1991	rs2804213	T	C	-0.051	0.011	3.19E-06	16926
genus.Prevotella9.id.11183	rs10512344	G	C	0.247	0.054	3.19E-06	3063
genus.Anaerostipes.id.1991	rs2769392	G	A	-0.051	0.011	3.19E-06	16926
genus.RuminococcaceaeUCG011.id.11368	rs12738262	G	A	-0.117	0.025	3.19E-06	3632
genus.Butyrvibrio.id.1993	rs462432	A	G	-0.112	0.024	3.19E-06	3482
genus.LachnospiraceaeUCG010.id.11330	rs74315802	T	G	0.087	0.018	3.19E-06	12715
genus.RuminococcaceaeUCG011.id.11368	rs2729556	T	C	-0.109	0.023	3.19E-06	3632
genus.Intestinibacter.id.11345	rs4698733	T	C	0.065	0.014	3.18E-06	12301
genus.Ruminiclostridium9.id.11357	rs12419854	A	T	-0.073	0.016	3.18E-06	16027
genus.Lachnoclostridium.id.11308	rs61915982	C	T	0.081	0.017	3.18E-06	16773
genus.RuminococcaceaeUCG011.id.11368	rs11586744	T	C	-0.117	0.025	3.18E-06	3632
genus.RuminococcaceaeUCG003.id.11361	rs2548459	T	C	0.055	0.012	3.18E-06	14409
genus.FamilyXIIIUCG001.id.11294	rs12239541	G	C	-0.062	0.013	3.18E-06	12750
genus.LachnospiraceaeUCG008.id.11328	rs10751237	C	A	-0.082	0.017	3.17E-06	6930
genus.Ruminococcusgnavusgroup.id.14376	rs12402335	T	A	0.089	0.020	3.17E-06	6327
genus.Peptococcus.id.2037	rs317069	G	A	-0.104	0.022	3.17E-06	5656
genus.Veillonella.id.2198	rs2979933	T	A	0.076	0.016	3.17E-06	9286
genus.Dorea.id.1997	rs73729431	T	C	-0.137	0.030	3.17E-06	9596
genus.Lachnoclostridium.id.11308	rs6046012	T	C	-0.050	0.011	3.17E-06	17842
genus.Alistipes.id.968	rs11773263	C	T	-0.051	0.011	3.17E-06	17571
genus.Barnesiella.id.944	rs77455852	G	T	-0.089	0.020	3.16E-06	13394
genus.RuminococcaceaeUCG011.id.11368	rs7550736	C	T	-0.117	0.025	3.16E-06	3632
genus.Oscillibacter.id.2063	rs2288569	C	T	0.099	0.021	3.16E-06	8929

genus.RuminococcaceaeUCG004.id.11362	rs7520435	G	T	0.106	0.023	3.16E-06	9116
genus.Ruminiclostridium5.id.11355	rs2108642	A	C	-0.050	0.011	3.16E-06	17397
genus.Akkermansia.id.4037	rs11252894	C	A	0.077	0.017	3.15E-06	11863
genus.Peptococcus.id.2037	rs9409013	G	C	0.089	0.019	3.15E-06	5656
genus.Blautia.id.1992	rs66498553	A	G	0.057	0.012	3.15E-06	18160
genus.Eubacteriumxylanophilumgroup.id.14375	rs10917203	C	A	0.061	0.013	3.15E-06	12930
genus.Ruminiclostridium5.id.11355	rs7296521	C	T	-0.050	0.011	3.15E-06	17390
genus.Ruminiclostridium9.id.11357	rs12040548	T	G	0.057	0.012	3.15E-06	16721
genus.LachnospiraceaeFCS020group.id.11314	rs369444	G	C	0.125	0.026	3.15E-06	12465
genus.Eisenbergiella.id.11304	rs7179235	T	G	0.105	0.022	3.14E-06	5582
genus.RuminococcaceaeUCG011.id.11368	rs12728680	C	T	-0.118	0.025	3.14E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12753971	C	T	-0.118	0.025	3.14E-06	3632
genus.Ruminococcustorquesgroup.id.14377	rs632111	A	G	-0.050	0.011	3.14E-06	17798
genus.LachnospiraceaeFCS020group.id.11314	rs4871049	G	A	-0.057	0.012	3.14E-06	13772
genus.Eubacteriumeligensgroup.id.14372	rs72839198	G	C	0.156	0.038	3.14E-06	4926
genus.Ruminiclostridium9.id.11357	rs62289791	A	G	-0.053	0.011	3.13E-06	16725
genus.Peptococcus.id.2037	rs6857791	C	A	-0.107	0.023	3.13E-06	5526
genus.Anaerostipes.id.1991	rs1581904	C	A	-0.051	0.011	3.13E-06	16926
genus.Peptococcus.id.2037	rs11030569	T	A	-0.174	0.037	3.13E-06	5329
genus.Anaerostipes.id.1991	rs2769393	A	G	-0.051	0.011	3.13E-06	16926
genus.Akkermansia.id.4037	rs6832119	A	G	0.110	0.024	3.13E-06	11215
genus.Peptococcus.id.2037	rs12331409	C	A	-0.107	0.023	3.13E-06	5526
genus.Ruminiclostridium5.id.11355	rs7978783	A	G	-0.050	0.011	3.13E-06	17392
genus.RuminococcaceaeUCG009.id.11366	rs2058609	G	A	0.082	0.017	3.12E-06	7510
genus.RuminococcaceaeUCG011.id.11368	rs12742172	G	A	-0.116	0.025	3.12E-06	3632
genus.Streptococcus.id.1853	rs12537178	G	A	-0.067	0.014	3.12E-06	16382
genus.Lactobacillus.id.1837	rs7399658	A	G	-0.107	0.022	3.12E-06	6613
genus.LachnospiraceaeFCS020group.id.11314	rs11992238	T	C	-0.057	0.012	3.12E-06	13772
genus.Veillonella.id.2198	rs7645873	T	A	0.076	0.016	3.12E-06	9286
genus.ErysipelotrichaceaeUCG003.id.11384	rs59068084	G	T	0.056	0.012	3.12E-06	14544
genus.Ruminiclostridium5.id.11355	rs10848571	G	T	0.050	0.011	3.12E-06	17395

genus.Bilophila.id.3170	rs6793291	A	C	0.113	0.024	3.11E-06	11051
genus.Marvinbryantia.id.2005	rs2863363	G	A	0.063	0.014	3.11E-06	11950
genus.Peptococcus.id.2037	rs6857366	G	A	-0.107	0.023	3.11E-06	5526
genus.Butyricimonas.id.945	rs11748099	C	T	0.067	0.015	3.11E-06	10737
genus.RuminococcaceaeUCG011.id.11368	rs4652375	A	G	-0.117	0.025	3.11E-06	3632
genus.Peptococcus.id.2037	rs2889084	A	G	-0.107	0.023	3.11E-06	5526
genus..Eubacteriumruminantiumgroup.id.11340	rs139755	G	A	-0.080	0.017	3.11E-06	7314
genus.Bifidobacterium.id.436	rs6712127	A	G	0.071	0.015	3.11E-06	14778
genus.LachnospiraceaeUCG008.id.11328	rs9846590	G	A	-0.115	0.025	3.11E-06	6577
genus.Odoribacter.id.952	rs76840762	C	T	-0.126	0.027	3.11E-06	11935
genus.Butyrivibrio.id.1993	rs7763512	A	G	0.120	0.025	3.11E-06	3259
genus.Lachnoclostridium.id.11308	rs1033549	G	T	-0.051	0.011	3.11E-06	17836
genus.LachnospiraceaeNC2004group.id.11316	rs12127733	A	G	0.115	0.025	3.11E-06	6226
genus.RuminococcaceaeUCG011.id.11368	rs12727075	A	G	-0.117	0.025	3.11E-06	3632
genus.LachnospiraceaeUCG001.id.11321	rs573933	C	T	-0.108	0.023	3.11E-06	10150
genus.RuminococcaceaeUCG005.id.11363	rs12288512	G	A	0.067	0.014	3.10E-06	15473
genus.Lachnoclostridium.id.11308	rs2024619	G	A	-0.050	0.011	3.10E-06	17842
genus..Eubacteriumfissicatengroup.id.14373	rs151257695	G	A	0.210	0.045	3.10E-06	3587
genus..Ruminococcusgnavusgroup.id.14376	rs12136548	T	C	0.090	0.020	3.10E-06	6401
genus.Parasutterella.id.2892	rs7687560	C	T	0.062	0.013	3.10E-06	11384
genus.Adlercreutzia.id.812	rs2850883	A	G	-0.117	0.025	3.09E-06	8243
genus.Sutterella.id.2896	rs4270166	T	C	0.061	0.013	3.09E-06	13254
genus.Tyzzereella3.id.11335	rs4904512	C	T	-0.117	0.025	3.09E-06	5396
genus.Akkermansia.id.4037	rs2169719	A	G	0.068	0.015	3.09E-06	11858
genus..Eubacteriumrectalegroup.id.14374	rs117175461	C	T	-0.111	0.024	3.09E-06	13910
genus.Methanobrevibacter.id.123	rs10202904	G	T	-0.113	0.024	3.09E-06	3583
genus.Intestinibacter.id.11345	rs519372	G	A	-0.140	0.030	3.08E-06	10333
genus..Eubacteriumfissicatengroup.id.14373	rs4875590	T	A	-0.106	0.023	3.08E-06	3830
genus.LachnospiraceaeFCS020group.id.11314	rs1010831	A	C	-0.057	0.012	3.08E-06	13772
genus.Oscillibacter.id.2063	rs16866406	G	A	0.099	0.021	3.08E-06	8930
genus.Ruminiclostridium5.id.11355	rs11010058	C	T	-0.053	0.011	3.08E-06	17385

genus.LachnospiraceaeFCS020group.id.11314	rs12866856	T	C	-0.061	0.013	3.07E-06	13772
genus.Copro bacter.id.949	rs143662916	T	C	0.253	0.054	3.07E-06	3083
genus.Ruminiclostridium5.id.11355	rs10735003	C	T	-0.050	0.011	3.07E-06	17397
genus..Ruminococcusgnavusgroup.id.14376	rs6861985	T	C	-0.107	0.023	3.07E-06	6326
genus.Alloprevotella.id.961	rs909327	T	C	0.139	0.029	3.07E-06	3009
genus.ErysipelotrichaceaeUCG003.id.11384	rs7235864	A	G	-0.100	0.021	3.06E-06	14431
genus.Victivallis.id.2256	rs2885255	C	G	0.117	0.025	3.06E-06	3267
genus.RuminococcaceaeUCG011.id.11368	rs11802637	G	A	-0.117	0.025	3.06E-06	3632
genus.Anaerofilum.id.2053	rs1710914	C	T	-0.177	0.038	3.06E-06	4935
genus.Holdmania.id.2157	rs7941067	T	G	0.075	0.016	3.06E-06	9109
genus.Bifidobacterium.id.436	rs78364332	T	C	0.075	0.016	3.06E-06	14778
genus.Intestinibacter.id.11345	rs6875660	T	C	0.089	0.019	3.06E-06	12293
genus.Prevotella9.id.11183	rs2672225	A	G	-0.070	0.015	3.06E-06	10262
genus.LachnospiraceaeFCS020group.id.11314	rs10093861	A	G	-0.057	0.012	3.06E-06	13772
genus.Odoribacter.id.952	rs11836317	G	A	-0.126	0.027	3.05E-06	11935
genus.LachnospiraceaeND3007group.id.11317	rs2006002	G	C	-0.054	0.012	3.05E-06	15215
genus.Bifidobacterium.id.436	rs614193	A	T	0.074	0.016	3.05E-06	14777
genus.Anaerofilum.id.2053	rs62265649	G	A	0.097	0.021	3.05E-06	5051
genus.Dialister.id.2183	rs10105942	G	A	0.061	0.013	3.05E-06	11989
genus.FamilyXIIIUCG001.id.11294	rs116979587	A	T	-0.122	0.026	3.05E-06	11989
genus.Peptococcus.id.2037	rs6856308	G	A	-0.107	0.023	3.04E-06	5526
genus.Butyrvibrio.id.1993	rs61269242	C	T	-0.113	0.024	3.04E-06	3475
genus.Fusicatenibacter.id.11305	rs12742343	C	T	-0.057	0.012	3.04E-06	17382
genus.Streptococcus.id.1853	rs17708276	G	A	-0.079	0.017	3.04E-06	16278
genus.Allisonella.id.2174	rs12553213	G	T	0.141	0.030	3.04E-06	3212
genus.Intestinibacter.id.11345	rs10965008	A	G	-0.108	0.023	3.04E-06	11886
genus.ErysipelotrichaceaeUCG003.id.11384	rs57486902	C	T	-0.092	0.019	3.04E-06	14895
genus.Escherichia.Shigella.id.3504	rs1154904	G	A	-0.061	0.013	3.04E-06	12002
genus.Parasutterella.id.2892	rs11131566	T	A	0.062	0.013	3.04E-06	11385
genus.RuminococcaceaeUCG002.id.11360	rs62374285	G	A	-0.057	0.012	3.03E-06	17095
genus..Ruminococcus torquesgroup.id.14377	rs281395	C	G	0.051	0.011	3.03E-06	17790

genus.RuminococcaceaeUCG011.id.11368	rs10913769	G	T	-0.117	0.025	3.03E-06	3632
genus.LachnospiraceaeUCG001.id.11321	rs2201163	G	A	0.071	0.015	3.03E-06	10150
genus.Parabacteroides.id.954	rs12486680	C	A	0.102	0.022	3.03E-06	16399
genus.Subdoligranulum.id.2070	rs2114678	A	G	-0.104	0.023	3.03E-06	15566
genus..Eubacteriumxylanophilumgroup.id.14375	rs35278384	A	G	0.067	0.014	3.03E-06	13307
genus.Butyricimonas.id.945	rs2591754	A	T	0.067	0.015	3.02E-06	10737
genus.Alloprevotella.id.961	rs12675570	T	C	0.155	0.032	3.02E-06	3009
genus.Prevotella9.id.11183	rs74569930	C	T	0.207	0.044	3.02E-06	4878
genus.Butyrivibrio.id.1993	rs12745118	G	A	0.176	0.037	3.02E-06	3482
genus.Parasutterella.id.2892	rs10175844	T	C	0.062	0.013	3.02E-06	11383
genus.Intestinibacter.id.11345	rs479954	C	T	-0.140	0.030	3.02E-06	10333
genus.Butyrivibrio.id.1993	rs12938033	T	C	0.119	0.026	3.02E-06	3479
genus.RuminococcaceaeUCG011.id.11368	rs12753162	T	C	-0.118	0.025	3.02E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12729623	C	G	-0.118	0.025	3.02E-06	3632
genus.Paraprevotella.id.962	rs883630	G	C	-0.083	0.018	3.02E-06	7178
genus.Bifidobacterium.id.436	rs3112496	C	T	0.073	0.016	3.02E-06	14778
genus.Oscillibacter.id.2063	rs11624178	G	A	-0.072	0.016	3.02E-06	8927
genus.Erysipelatoclostridium.id.11381	rs6474512	C	A	0.067	0.014	3.02E-06	9783
genus..Ruminococcustorquesgroup.id.14377	rs681343	C	T	-0.050	0.011	3.01E-06	17797
genus.Flavonifractor.id.2059	rs12789936	C	T	0.074	0.016	3.01E-06	10708
genus.Holdemania.id.2157	rs79436239	A	G	-0.136	0.029	3.01E-06	8432
genus.Akkermansia.id.4037	rs117107102	G	A	0.204	0.043	3.01E-06	4974
genus.LachnospiraceaeUCG008.id.11328	rs998759	C	A	-0.110	0.024	3.01E-06	6950
genus.RuminococcaceaeUCG011.id.11368	rs11803781	A	G	-0.118	0.025	3.01E-06	3632
genus.Parabacteroides.id.954	rs10811655	C	G	-0.066	0.014	3.01E-06	17299
genus.Hungatella.id.11306	rs34718907	C	T	-0.159	0.033	3.01E-06	3950
genus.Senegalimassilia.id.11160	rs34653493	C	T	0.081	0.017	3.01E-06	6923
genus.Barnesiella.id.944	rs199035	A	G	0.056	0.012	3.00E-06	13945
genus.Marvinbryantia.id.2005	rs61884469	G	A	0.119	0.025	3.00E-06	11560
genus.Oscillibacter.id.2063	rs436827	T	A	-0.071	0.015	3.00E-06	8930
genus.Paraprevotella.id.962	rs1928141	A	G	-0.080	0.017	3.00E-06	7179

genus.Lactococcus.id.1851	rs7580916	C	T	-0.192	0.043	3.00E-06	3786
genus.Bifidobacterium.id.436	rs3087343	T	G	0.075	0.016	3.00E-06	14778
genus.Akkermansia.id.4037	rs4242783	A	G	0.069	0.015	3.00E-06	11689
genus.Paraprevotella.id.962	rs7981920	T	C	-0.080	0.017	2.99E-06	7179
genus.RuminococcaceaeUCG011.id.11368	rs11804154	T	G	-0.118	0.025	2.99E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11805235	G	C	-0.118	0.025	2.99E-06	3632
genus.RuminococcaceaeUCG002.id.11360	rs2265670	G	C	-0.051	0.011	2.99E-06	17096
genus.LachnospiraceaeUCG008.id.11328	rs10793104	A	G	0.092	0.020	2.99E-06	7017
genus.Peptococcus.id.2037	rs6836511	A	G	-0.107	0.023	2.99E-06	5526
genus.RuminococcaceaeUCG003.id.11361	rs516246	C	T	0.056	0.012	2.99E-06	14412
genus.Fusicatenibacter.id.11305	rs2025938	A	G	-0.097	0.021	2.99E-06	15626
genus.Peptococcus.id.2037	rs9409014	C	G	0.089	0.019	2.99E-06	5656
genus.LachnospiraceaeUCG008.id.11328	rs29301	A	G	0.080	0.017	2.99E-06	7017
genus.RuminococcaceaeUCG004.id.11362	rs11164636	C	A	0.080	0.017	2.99E-06	9116
genus.Intestinimonas.id.2062	rs7170984	C	T	-0.066	0.014	2.98E-06	12090
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs73306417	T	C	-0.074	0.016	2.98E-06	17377
genus.Oscillibacter.id.2063	rs11156709	A	G	-0.072	0.016	2.98E-06	8926
genus.Veillonella.id.2198	rs1882878	G	A	-0.077	0.016	2.98E-06	9282
genus.LachnospiraceaeUCG004.id.11324	rs12673420	A	G	0.055	0.012	2.98E-06	14463
genus.ErysipelotrichaceaeUCG003.id.11384	rs357853	T	C	-0.099	0.021	2.98E-06	14420
genus.Ruminococcus1.id.11373	rs4755335	C	A	-0.054	0.011	2.98E-06	16607
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs11808093	C	T	0.079	0.017	2.97E-06	16660
genus.Ruminiclostridium9.id.11357	rs62287861	G	A	-0.055	0.012	2.97E-06	16725
genus.Gordonibacter.id.821	rs111579754	G	C	0.176	0.038	2.97E-06	3723
genus.RuminococcaceaeUCG011.id.11368	rs12757708	T	G	-0.118	0.025	2.97E-06	3632
genus.Parasutterella.id.2892	rs2797668	T	C	0.083	0.018	2.97E-06	11385
genus.RuminococcaceaeUCG011.id.11368	rs2153008	A	G	0.183	0.039	2.96E-06	3632
genus.Ruminococcusgnavusgroup.id.14376	rs12653275	G	A	-0.109	0.023	2.96E-06	6327
genus.Victivallis.id.2256	rs6445926	C	G	0.117	0.025	2.96E-06	3267
genus.LachnospiraceaeUCG008.id.11328	rs29327	C	T	0.080	0.017	2.96E-06	7017
genus.RuminococcaceaeUCG002.id.11360	rs12463378	G	A	-0.052	0.011	2.96E-06	16994

genus.RuminococcaceaeUCG011.id.11368	rs10913754	C	T	-0.118	0.025	2.95E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs10913752	G	A	-0.118	0.025	2.95E-06	3632
genus.Olsenella.id.822	rs72691585	A	C	-0.249	0.052	2.95E-06	3078
genus.Barnesiella.id.944	rs36119320	G	A	0.092	0.019	2.95E-06	13002
genus.Barnesiella.id.944	rs35177866	G	A	0.092	0.019	2.95E-06	13394
genus.Bifidobacterium.id.436	rs3098102	C	T	0.074	0.016	2.95E-06	14778
genus.ErysipelotrichaceaeUCG003.id.11384	rs9304371	T	C	-0.099	0.021	2.94E-06	14431
genus.Odoribacter.id.952	rs78878135	T	G	-0.126	0.027	2.94E-06	11935
genus.Enterorhabdus.id.820	rs3017103	G	A	0.098	0.021	2.94E-06	7524
genus.Bifidobacterium.id.436	rs6750549	A	G	0.076	0.016	2.94E-06	14666
genus.Sellimonas.id.14369	rs691738	T	C	-0.120	0.026	2.94E-06	3154
genus.Ruminiclostridium5.id.11355	rs9805049	C	A	0.050	0.011	2.93E-06	17395
genus.Parasutterella.id.2892	rs1543164	G	C	0.063	0.013	2.93E-06	11385
genus.Allisonella.id.2174	rs1048451	A	G	0.142	0.030	2.93E-06	3212
genus.LachnospiraceaeNK4A136group.id.11319	rs76193507	G	A	-0.230	0.050	2.93E-06	3578
genus.Anaerotruncus.id.2054	rs55903929	C	G	0.075	0.017	2.93E-06	16564
genus.Lachnospira.id.2004	rs56791201	C	T	0.052	0.011	2.93E-06	16486
genus.Ruminiclostridium5.id.11355	rs4648667	A	G	0.088	0.020	2.92E-06	14914
genus.Eubacteriumxylanophilumgroup.id.14375	rs34157616	C	T	0.067	0.014	2.92E-06	13307
genus.LachnospiraceaeNC2004group.id.11316	rs6116753	A	G	0.099	0.021	2.92E-06	6278
genus.Tyzzera3.id.11335	rs2695600	G	A	0.125	0.029	2.92E-06	5396
genus.Hungatella.id.11306	rs34258309	C	A	-0.160	0.033	2.92E-06	3950
genus.Prevotella7.id.11182	rs385483	G	A	0.137	0.029	2.92E-06	3318
genus.Parasutterella.id.2892	rs62313293	G	A	0.062	0.013	2.92E-06	11385
genus.RuminococcaceaeUCG014.id.11371	rs56105232	A	G	0.139	0.030	2.91E-06	9190
genus.Roseburia.id.2012	rs16910295	C	T	-0.098	0.021	2.91E-06	16648
genus.Anaerostipes.id.1991	rs2396460	C	T	-0.051	0.011	2.91E-06	16912
genus.Allisonella.id.2174	rs4743061	T	C	0.144	0.031	2.91E-06	3212
genus.CandidatusSoleiferrea.id.11350	rs712065	T	C	0.109	0.023	2.91E-06	6145
genus.Butyrivimonas.id.945	rs1982775	C	T	0.066	0.014	2.91E-06	10737
genus.RuminococcaceaeUCG011.id.11368	rs12747626	T	C	-0.118	0.025	2.91E-06	3632

genus.RuminococcaceaeUCG011.id.11368	rs36046838	T	A	-0.118	0.025	2.90E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs6666939	G	T	-0.118	0.025	2.90E-06	3632
genus.Parasutterella.id.2892	rs2090816	C	A	0.084	0.018	2.90E-06	11385
genus.Anaerotruncus.id.2054	rs9594206	G	A	0.075	0.017	2.90E-06	16566
genus.Allisonella.id.2174	rs60681062	T	C	0.142	0.030	2.89E-06	3212
genus.Parasutterella.id.2892	rs62313331	A	G	0.062	0.013	2.89E-06	11386
genus.Copro bacter.id.949	rs3828477	T	G	-0.091	0.020	2.89E-06	6798
genus.LachnospiraceaeND3007group.id.11317	rs11861453	G	A	-0.054	0.012	2.89E-06	15218
genus.Eubacteriumventriosumgroup.id.11341	rs876734	T	C	-0.062	0.013	2.89E-06	14913
genus.Butyri vibrio.id.1993	rs11657793	G	T	0.120	0.026	2.88E-06	3471
genus.Anaerotruncus.id.2054	rs7335244	A	G	0.075	0.017	2.88E-06	16565
genus.RuminococcaceaeUCG002.id.11360	rs10916131	T	C	-0.069	0.015	2.87E-06	17097
genus.RuminococcaceaeUCG011.id.11368	rs10913755	A	C	-0.118	0.025	2.87E-06	3632
genus.Ruminococcusgnavusgroup.id.14376	rs3011257	G	T	-0.116	0.025	2.87E-06	6401
genus.RuminococcaceaeUCG011.id.11368	rs12407502	T	C	-0.118	0.025	2.87E-06	3632
genus.Lachnoclostridium.id.11308	rs6046013	A	G	-0.050	0.011	2.87E-06	17842
genus.Parasutterella.id.2892	rs55877868	C	A	-0.104	0.023	2.87E-06	10588
genus.RuminococcaceaeUCG011.id.11368	rs12727704	A	T	-0.118	0.025	2.87E-06	3632
genus.Prevo tella7.id.11182	rs430270	C	A	0.139	0.030	2.87E-06	3318
genus.Butyricimonas.id.945	rs4747117	G	T	0.066	0.014	2.86E-06	10737
genus.Butyricimonas.id.945	rs2591756	A	T	0.067	0.015	2.86E-06	10735
genus.Flavonifractor.id.2059	rs4755898	G	A	0.074	0.016	2.86E-06	10708
genus.Eubacteriumnodatumgroup.id.11297	rs34029790	C	T	-0.162	0.034	2.86E-06	3271
genus.FamilyXIIIAD3011group.id.11293	rs12314465	G	A	-0.092	0.020	2.86E-06	13568
genus.Anaerofilum.id.2053	rs17096874	T	C	-0.126	0.027	2.86E-06	5051
genus.LachnospiraceaeUCG008.id.11328	rs57091572	G	A	-0.110	0.024	2.86E-06	6950
genus.RuminococcaceaeUCG010.id.11367	rs2820282	C	A	-0.059	0.013	2.85E-06	12865
genus.Marvinbryantia.id.2005	rs113508927	C	T	-0.073	0.016	2.85E-06	11610
genus.Tyzz erella3.id.11335	rs2612307	C	A	0.127	0.029	2.85E-06	5396
genus.Bifidobacterium.id.436	rs16832624	T	C	0.064	0.014	2.85E-06	14666
genus.RuminococcaceaeUCG004.id.11362	rs11164635	A	T	0.080	0.017	2.85E-06	9116

genus.RuminococcaceaeUCG011.id.11368	rs113805683	T	C	0.137	0.029	2.84E-06	3632
genus.RuminococcaceaeUCG010.id.11367	rs6958419	T	C	-0.059	0.012	2.84E-06	12870
genus.RuminococcaceaeUCG011.id.11368	rs4651028	A	G	-0.118	0.025	2.84E-06	3632
genus.Ruminiclostridium9.id.11357	rs62289789	C	T	-0.053	0.011	2.84E-06	16725
genus.RuminococcaceaeUCG003.id.11361	rs1917270	C	T	-0.153	0.031	2.83E-06	7696
genus.RuminococcaceaeUCG011.id.11368	rs58836785	T	C	-0.118	0.025	2.83E-06	3632
genus.Turicibacter.id.2162	rs75286509	A	T	0.101	0.022	2.83E-06	8927
genus.LachnospiraceaeUCG008.id.11328	rs7928986	C	G	-0.091	0.019	2.83E-06	7015
genus.Butyrivibrio.id.1993	rs8075758	C	A	0.121	0.026	2.83E-06	3471
genus.Sellimonas.id.14369	rs2470619	A	G	0.118	0.025	2.83E-06	3154
genus.Sellimonas.id.14369	rs2623258	A	T	-0.121	0.026	2.83E-06	3154
genus.Bifidobacterium.id.436	rs1057031	G	A	0.075	0.016	2.83E-06	14778
genus.RuminococcaceaeUCG011.id.11368	rs12748264	T	C	-0.118	0.025	2.82E-06	3632
genus.Streptococcus.id.1853	rs7316693	A	G	-0.058	0.012	2.82E-06	15743
genus.Prevotella9.id.11183	rs117271932	G	A	0.208	0.044	2.82E-06	4878
genus.Desulfovibrio.id.3173	rs10129801	C	T	-0.069	0.015	2.82E-06	9234
genus.RuminococcaceaeUCG011.id.11368	rs12750591	C	G	-0.118	0.025	2.82E-06	3632
genus.Parasutterella.id.2892	rs908612	A	G	0.063	0.013	2.81E-06	11382
genus.Bifidobacterium.id.436	rs75128007	A	G	0.065	0.014	2.81E-06	14666
genus.RuminococcaceaeUCG011.id.11368	rs12636310	A	G	0.133	0.028	2.81E-06	3632
genus.Eisenbergiella.id.11304	rs1580775	A	G	0.105	0.022	2.81E-06	5582
genus.Ruminiclostridium9.id.11357	rs9857678	T	C	-0.053	0.011	2.81E-06	16725
genus.RuminococcaceaeUCG005.id.11363	rs7555878	G	A	0.059	0.013	2.81E-06	16100
genus.Romboutsia.id.11347	rs61841445	G	C	0.075	0.016	2.81E-06	13567
genus.ChristensenellaceaeR.7group.id.11283	rs10412550	C	T	0.054	0.012	2.81E-06	16325
genus.Subdoligranulum.id.2070	rs6555306	C	T	-0.074	0.016	2.81E-06	17591
genus.Turicibacter.id.2162	rs55756211	C	T	-0.115	0.024	2.81E-06	8941
genus.Butyrivibrio.id.1993	rs7451051	A	G	-0.113	0.024	2.80E-06	3482
genus.Catenibacterium.id.2153	rs12404911	T	C	0.141	0.030	2.80E-06	3239
genus.Coprococcus2.id.11302	rs2391605	G	A	-0.064	0.014	2.80E-06	11009
genus.Odoribacter.id.952	rs17103644	A	G	-0.126	0.027	2.80E-06	11935

genus.Anaerotruncus.id.2054	rs1575380	C	T	0.075	0.017	2.79E-06	16566
genus.Parasutterella.id.2892	rs11615654	G	A	0.063	0.013	2.79E-06	11382
genus.Bifidobacterium.id.436	rs16832162	T	A	0.075	0.016	2.79E-06	14778
genus.Butyrivibrio.id.1993	rs4276544	G	A	-0.113	0.024	2.79E-06	3482
genus.Prevotella9.id.11183	rs2672262	C	T	-0.070	0.015	2.79E-06	10267
genus.Ruminiclostridium9.id.11357	rs62286616	A	C	-0.053	0.011	2.79E-06	16725
genus.Anaerotruncus.id.2054	rs7334359	C	T	0.075	0.017	2.79E-06	16565
genus.Ruminiclostridium6.id.11356	rs11035753	C	T	0.073	0.015	2.78E-06	13381
genus.Prevotella9.id.11183	rs1193288	A	G	-0.071	0.015	2.78E-06	10271
genus.LachnospiraceaeUCG008.id.11328	rs10741776	G	A	-0.093	0.020	2.78E-06	7014
genus.RuminococcaceaeUCG011.id.11368	rs12751244	C	T	-0.118	0.025	2.78E-06	3632
genus.FamilyXIIIUCG001.id.11294	rs745349	G	C	-0.062	0.013	2.78E-06	12712
genus.Oxalobacter.id.2978	rs36018452	A	G	0.201	0.042	2.78E-06	4245
genus.LachnospiraceaeUCG001.id.11321	rs168207	A	G	0.067	0.014	2.77E-06	10145
genus.LachnospiraceaeNK4A136group.id.11319	rs7616165	T	G	-0.231	0.048	2.77E-06	4094
genus.Ruminiclostridium9.id.11357	rs62286618	G	A	-0.053	0.011	2.77E-06	16725
genus..Ruminococcustorquesgroup.id.14377	rs12434631	G	A	0.075	0.015	2.77E-06	17353
genus.RuminococcaceaeUCG011.id.11368	rs7551894	C	G	-0.118	0.025	2.77E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7513973	T	A	-0.118	0.025	2.77E-06	3632
genus.Romboutsia.id.11347	rs41289305	T	C	0.075	0.016	2.77E-06	13567
genus..Ruminococcustorquesgroup.id.14377	rs601338	G	A	-0.050	0.011	2.77E-06	17796
genus.Victivallis.id.2256	rs11899949	A	G	0.131	0.028	2.77E-06	3258
genus.Clostridiumsensustricto1.id.1873	rs2817172	T	C	0.058	0.012	2.77E-06	13658
genus.Bifidobacterium.id.436	rs309171	G	C	0.075	0.016	2.76E-06	14778
genus.Holdemania.id.2157	rs150765194	G	T	0.161	0.033	2.76E-06	6906
genus.Odoribacter.id.952	rs3850600	G	A	-0.128	0.027	2.76E-06	11471
genus.Odoribacter.id.952	rs17184182	A	G	-0.128	0.027	2.76E-06	11554
genus.Parasutterella.id.2892	rs1403396	T	A	-0.076	0.016	2.76E-06	11378
genus.RuminococcaceaeUCG011.id.11368	rs11803247	G	C	-0.118	0.025	2.75E-06	3632
genus.Victivallis.id.2256	rs4895919	C	T	-0.117	0.025	2.75E-06	3254
genus.Peptococcus.id.2037	rs3781148	C	T	-0.198	0.040	2.75E-06	5329

genus.Anaerostipes.id.1991	rs3900776	A	G	-0.110	0.024	2.75E-06	14694
genus.Peptococcus.id.2037	rs9409341	G	A	0.089	0.019	2.74E-06	5657
genus.Ruminococcus1.id.11373	rs11038608	G	A	-0.055	0.012	2.74E-06	16607
genus.Anaerofilum.id.2053	rs62265650	G	A	0.097	0.021	2.74E-06	5051
genus.LachnospiraceaeUCG001.id.11321	rs7018735	T	C	-0.067	0.014	2.74E-06	10148
genus..Ruminococcusgnavusgroup.id.14376	rs13166733	T	A	-0.108	0.023	2.74E-06	6328
genus.Lachnospira.id.2004	rs4686798	C	T	0.053	0.011	2.74E-06	16497
genus.LachnospiraceaeUCG001.id.11321	rs7029467	G	A	-0.067	0.014	2.74E-06	10148
genus..Ruminococcusgnavusgroup.id.14376	rs934940	C	A	-0.105	0.023	2.74E-06	6309
genus.Copro bacter.id.949	rs55672356	A	T	-0.193	0.041	2.74E-06	4903
genus..Eubacteriumfissicatenagroup.id.14373	rs7104872	A	G	0.139	0.029	2.73E-06	3829
genus.RuminococcaceaeUCG011.id.11368	rs34362270	T	C	-0.139	0.030	2.73E-06	3632
genus.Alistipes.id.968	rs4717372	C	G	-0.051	0.011	2.73E-06	17571
genus.Sutterella.id.2896	rs13173038	G	A	-0.072	0.015	2.73E-06	13245
genus.Ruminiclostridium6.id.11356	rs17590101	T	C	0.153	0.032	2.73E-06	8955
genus.RuminococcaceaeUCG003.id.11361	rs2061406	G	A	0.071	0.016	2.73E-06	14310
genus..Eubacteriumnodatumgroup.id.11297	rs4502131	T	C	-0.162	0.034	2.72E-06	3271
genus.Allisonella.id.2174	rs13300328	G	C	0.142	0.030	2.72E-06	3212
genus.Parasutterella.id.2892	rs7305839	C	T	0.062	0.014	2.72E-06	11378
genus.Clostridiumsensustricto1.id.1873	rs2795528	A	G	-0.184	0.039	2.72E-06	6366
genus..Eubacteriumnodatumgroup.id.11297	rs7146815	G	A	-0.162	0.034	2.72E-06	3295
genus.Oxalobacter.id.2978	rs761575	T	C	-0.100	0.021	2.72E-06	4635
genus.Bifidobacterium.id.436	rs4954218	T	G	-0.061	0.014	2.72E-06	13806
genus.Subdoligranulum.id.2070	rs2114677	T	C	-0.104	0.023	2.72E-06	15566
genus.Streptococcus.id.1853	rs7916711	G	A	0.103	0.022	2.72E-06	15294
genus.Eisenbergiella.id.11304	rs3812426	A	G	0.106	0.022	2.72E-06	5583
genus.Peptococcus.id.2037	rs7660438	C	G	-0.107	0.023	2.72E-06	5526
genus.Akkermansia.id.4037	rs2602429	T	C	0.075	0.016	2.72E-06	11689
genus.Paraprevotella.id.962	rs11653132	G	T	-0.082	0.017	2.71E-06	7176
genus.Slackia.id.825	rs16894137	T	C	-0.123	0.026	2.71E-06	6063
genus.Fusicatenibacter.id.11305	rs9727026	A	G	-0.058	0.012	2.71E-06	17381

genus.RuminococcaceaeUCG011.id.11368	rs11577579	A	C	-0.118	0.025	2.71E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12401957	A	C	-0.118	0.025	2.71E-06	3632
genus..Eubacteriumhalliigroup.id.11338	rs6425850	T	G	0.063	0.013	2.71E-06	16563
genus.Bifidobacterium.id.436	rs309167	C	T	0.077	0.016	2.70E-06	14778
genus.RuminococcaceaeUCG011.id.11368	rs4233179	G	T	-0.118	0.025	2.70E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs4233178	T	C	-0.118	0.025	2.70E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12744438	G	A	-0.118	0.025	2.70E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12726875	A	G	-0.118	0.025	2.70E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11807559	C	G	-0.118	0.025	2.70E-06	3632
genus.Peptococcus.id.2037	rs1964138	G	A	0.089	0.019	2.70E-06	5656
genus.LachnospiraceaeUCG010.id.11330	rs12346653	T	C	0.066	0.014	2.70E-06	12816
genus.Desulfovibrio.id.3173	rs11160353	A	T	-0.069	0.015	2.70E-06	9234
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs61391935	G	A	-0.074	0.016	2.70E-06	17377
genus..Ruminococcustorquesgroup.id.14377	rs516316	G	C	-0.050	0.011	2.70E-06	17798
genus.Bifidobacterium.id.436	rs2839740	G	T	0.077	0.016	2.70E-06	14777
genus..Eubacteriumhalliigroup.id.11338	rs60254196	G	A	-0.052	0.011	2.70E-06	16238
genus.Bifidobacterium.id.436	rs586964	G	A	0.077	0.016	2.69E-06	14777
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12666960	T	C	-0.079	0.017	2.69E-06	17274
genus.Parasutterella.id.2892	rs4852276	T	C	0.063	0.013	2.69E-06	11384
genus.FamilyXIIIAD3011group.id.11293	rs2999588	A	G	-0.057	0.012	2.69E-06	14191
genus.Odoribacter.id.952	rs17103691	A	G	-0.127	0.027	2.69E-06	11935
genus..Ruminococcustorquesgroup.id.14377	rs10904297	G	A	-0.168	0.039	2.69E-06	3143
genus.Bacteroides.id.918	rs17619981	G	T	0.088	0.019	2.69E-06	15801
genus.Bifidobacterium.id.436	rs77985886	C	T	0.098	0.020	2.68E-06	14778
genus.Ruminiclostridium9.id.11357	rs7612250	G	T	-0.053	0.011	2.68E-06	16725
genus.Odoribacter.id.952	rs495772	T	G	0.056	0.012	2.68E-06	14218
genus.LachnospiraceaeFCS020group.id.11314	rs10418670	A	G	0.063	0.013	2.68E-06	13537
genus.RuminococcaceaeUCG011.id.11368	rs4652370	G	A	-0.118	0.025	2.68E-06	3632
genus.Ruminiclostridium6.id.11356	rs1377105	T	C	0.073	0.015	2.68E-06	13381
genus.Bifidobacterium.id.436	rs309166	C	T	0.074	0.016	2.67E-06	14778
genus.Intestinibacter.id.11345	rs118030283	A	G	-0.152	0.032	2.67E-06	8830

genus.Lachnoclostridium.id.11308	rs61915992	T	A	0.080	0.017	2.67E-06	16773
genus.Alloprevotella.id.961	rs7004821	G	A	0.139	0.029	2.67E-06	3009
genus.Phascolarctobacterium.id.2168	rs76124218	G	C	-0.159	0.034	2.67E-06	7314
genus.Ruminiclostridium5.id.11355	rs4007288	G	A	-0.054	0.011	2.67E-06	17390
genus.Blautia.id.1992	rs67619974	A	G	0.058	0.012	2.67E-06	18159
genus.Anaerostipes.id.1991	rs12259535	A	G	-0.052	0.011	2.67E-06	16926
genus.Eubacteriumfissicatengroup.id.14373	rs11876297	C	T	0.131	0.028	2.67E-06	3396
genus.Ruminococcusgnavusgroup.id.14376	rs3124783	G	A	-0.116	0.025	2.67E-06	6401
genus.RuminococcaceaeUCG011.id.11368	rs12744976	C	T	-0.118	0.025	2.66E-06	3632
genus.Allisonella.id.2174	rs13286510	T	A	0.142	0.030	2.66E-06	3212
genus.RuminococcaceaeUCG011.id.11368	rs12409337	G	A	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12408443	T	C	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12755534	G	T	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7554103	A	G	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs7513782	T	C	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs9662026	G	T	-0.118	0.025	2.66E-06	3632
genus.Bifidobacterium.id.436	rs80261410	T	C	0.065	0.014	2.66E-06	14666
genus.Ruminiclostridium9.id.11357	rs62286610	G	T	-0.053	0.011	2.66E-06	16725
genus.RuminococcaceaeUCG011.id.11368	rs11801919	A	T	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11803484	G	T	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12757910	T	A	-0.118	0.025	2.66E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs11803938	G	A	-0.118	0.025	2.66E-06	3632
genus.Blautia.id.1992	rs28609389	T	C	0.056	0.012	2.65E-06	18273
genus.RuminococcaceaeUCG011.id.11368	rs12729491	C	A	-0.118	0.025	2.65E-06	3632
genus.Anaerostipes.id.1991	rs12259533	C	G	-0.052	0.011	2.65E-06	16926
genus.Parasutterella.id.2892	rs5005433	T	C	0.063	0.013	2.65E-06	11378
genus.Bifidobacterium.id.436	rs895285	A	G	0.077	0.016	2.65E-06	14778
genus.Ruminiclostridium5.id.11355	rs6121460	A	G	0.093	0.020	2.64E-06	17318
genus.Anaerotruncus.id.2054	rs1575382	G	A	0.075	0.017	2.64E-06	16566
genus.CandidatusSoleaferrea.id.11350	rs791504	T	A	0.108	0.023	2.64E-06	6145
genus.Peptococcus.id.2037	rs12110494	C	T	0.130	0.029	2.64E-06	5655

genus.Hungatella.id.11306	rs72699558	C	T	-0.160	0.033	2.64E-06	3950
genus.Senegalimassilia.id.11160	rs11787826	A	C	0.081	0.017	2.63E-06	6923
genus.LachnospiraceaeUCG008.id.11328	rs29326	C	T	0.080	0.017	2.63E-06	7017
genus.Eubacteriumoxidoreducensgroup.id.11339	rs12423772	T	G	0.141	0.030	2.63E-06	5321
genus.Slackia.id.825	rs12440440	G	A	0.090	0.019	2.63E-06	6063
genus.Ruminiclostridium6.id.11356	rs77968078	A	G	0.119	0.025	2.63E-06	12602
genus.Hungatella.id.11306	rs66832370	C	G	-0.160	0.033	2.62E-06	3950
genus.Hungatella.id.11306	rs35704070	C	T	-0.160	0.033	2.62E-06	3950
genus.Gordonibacter.id.821	rs111233479	A	G	0.177	0.038	2.62E-06	3723
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs115325767	C	G	0.078	0.017	2.62E-06	16555
genus.Peptococcus.id.2037	rs9299351	C	T	0.090	0.019	2.62E-06	5656
genus.Eubacteriumruminantiumgroup.id.11340	rs72836424	T	C	-0.140	0.030	2.62E-06	7314
genus.LachnospiraceaeFCS020group.id.11314	rs35035870	C	T	-0.191	0.041	2.62E-06	5642
genus.RuminococcaceaeUCG003.id.11361	rs602662	G	A	0.056	0.012	2.62E-06	14412
genus.Parabacteroides.id.954	rs10119172	G	C	-0.068	0.015	2.62E-06	17299
genus.Marvinbryantia.id.2005	rs2768445	A	G	-0.075	0.016	2.62E-06	11608
genus.Bifidobacterium.id.436	rs12472293	T	C	0.075	0.016	2.62E-06	14778
genus.RuminococcaceaeUCG011.id.11368	rs4345774	G	A	-0.118	0.025	2.62E-06	3632
genus.Anaerotruncus.id.2054	rs7140071	T	C	0.075	0.017	2.62E-06	16565
genus.Hungatella.id.11306	rs72699560	G	A	-0.160	0.033	2.62E-06	3949
genus.ChristensenellaceaeR.7group.id.11283	rs4419165	C	T	0.054	0.012	2.61E-06	16325
genus.RuminococcaceaeUCG011.id.11368	rs4651027	A	G	-0.118	0.025	2.61E-06	3632
genus.Romboutsia.id.11347	rs61841447	T	C	0.075	0.016	2.61E-06	13567
genus.Veillonella.id.2198	rs11203482	A	G	-0.078	0.016	2.61E-06	9290
genus.RuminococcaceaeUCG004.id.11362	rs12129927	G	A	0.091	0.019	2.61E-06	9115
genus.Eubacteriumhalliigroup.id.11338	rs10798999	T	C	0.060	0.013	2.61E-06	16561
genus.Victivallis.id.2256	rs592514	A	T	-0.181	0.039	2.60E-06	3241
genus.ChristensenellaceaeR.7group.id.11283	rs1812306	C	A	0.054	0.012	2.60E-06	16325
genus.Ruminiclostridium5.id.11355	rs4765844	A	G	-0.051	0.011	2.60E-06	17387
genus.ChristensenellaceaeR.7group.id.11283	rs4413087	G	A	0.054	0.012	2.60E-06	16325
genus.Butyrvibrio.id.1993	rs6696235	C	T	0.187	0.039	2.60E-06	3482

genus.Lachnoclostridium.id.11308	rs12481174	T	C	-0.052	0.011	2.60E-06	17839
genus.RuminococcaceaeUCG005.id.11363	rs394449	T	A	0.069	0.015	2.60E-06	15728
genus.Akkermansia.id.4037	rs9349825	G	A	-0.070	0.015	2.60E-06	11857
genus.RuminococcaceaeUCG011.id.11368	rs9377649	G	A	-0.138	0.029	2.60E-06	3632
genus..Eubacteriumruminantiumgroup.id.11340	rs7154654	G	T	-0.200	0.042	2.59E-06	5071
genus.Prevotella7.id.11182	rs17088300	T	A	0.131	0.028	2.59E-06	3488
genus..Eubacteriumbrachygroup.id.11296	rs142794441	T	A	-0.171	0.037	2.59E-06	3988
genus.RuminococcaceaeUCG011.id.11368	rs4652379	T	C	-0.118	0.025	2.59E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs4651026	A	G	-0.118	0.025	2.59E-06	3632
genus..Eubacteriumbrachygroup.id.11296	rs12257053	T	C	-0.167	0.036	2.59E-06	4001
genus.RuminococcaceaeUCG011.id.11368	rs10913770	C	T	-0.118	0.025	2.59E-06	3632
genus.Parasutterella.id.2892	rs55658595	A	T	0.063	0.013	2.59E-06	11385
genus.Peptococcus.id.2037	rs13133889	A	T	-0.108	0.023	2.59E-06	5526
genus.Ruminococcus1.id.11373	rs895729	G	A	-0.053	0.011	2.59E-06	16607
genus.Anaerotruncus.id.2054	rs4421867	T	C	0.075	0.017	2.59E-06	16566
genus.Hungatella.id.11306	rs35209497	G	C	-0.160	0.033	2.59E-06	3950
genus.Parasutterella.id.2892	rs5005431	T	C	0.063	0.013	2.59E-06	11383
genus.Bifidobacterium.id.436	rs1942051	A	G	0.055	0.012	2.59E-06	14778
genus.Anaerotruncus.id.2054	rs17055723	C	T	0.075	0.017	2.58E-06	16566
genus.RuminococcaceaeUCG003.id.11361	rs11831525	C	A	0.071	0.015	2.58E-06	14397
genus.Alistipes.id.968	rs10950070	G	A	-0.052	0.011	2.58E-06	17571
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973293	C	G	0.092	0.020	2.58E-06	5378
genus.LachnospiraceaeUCG010.id.11330	rs72761829	T	A	0.112	0.024	2.58E-06	11488
genus.RuminococcaceaeUCG002.id.11360	rs11746143	G	A	-0.058	0.012	2.57E-06	16651
genus.Butyrivibrio.id.1993	rs459403	C	T	-0.113	0.024	2.57E-06	3482
genus.Prevotella7.id.11182	rs62115054	C	T	0.150	0.032	2.57E-06	3489
genus.ChristensenellaceaeR.7group.id.11283	rs10426071	G	A	0.054	0.012	2.57E-06	16325
genus.RuminococcaceaeUCG011.id.11368	rs12744535	A	G	-0.118	0.025	2.57E-06	3632
genus.Flavonifractor.id.2059	rs4755897	C	A	0.075	0.016	2.57E-06	10708
genus.Lachnoclostridium.id.11308	rs6112319	G	A	-0.053	0.011	2.57E-06	17823
genus.Sutterella.id.2896	rs1470456	A	G	-0.059	0.012	2.57E-06	13254

genus.Peptococcus.id.2037	rs62424011	C	T	0.132	0.029	2.56E-06	5657
genus.Ruminococcus2.id.11374	rs7570274	C	G	0.066	0.014	2.56E-06	14714
genus.RuminococcaceaeUCG011.id.11368	rs11811198	T	C	-0.118	0.025	2.56E-06	3632
genus.Ruminiclostridium9.id.11357	rs918449	G	A	-0.095	0.020	2.56E-06	16725
genus.Howardella.id.2000	rs1484873	G	A	-0.228	0.046	2.56E-06	3608
genus.unknowngenus.id.2071	rs76532867	C	T	0.112	0.024	2.56E-06	11387
genus.FamilyXIIIAD3011group.id.11293	rs12812672	C	T	-0.096	0.021	2.56E-06	13565
genus.RuminococcaceaeUCG005.id.11363	rs112014411	T	G	0.152	0.032	2.56E-06	9342
genus.Ruminococcus1.id.11373	rs7583465	T	C	0.053	0.011	2.56E-06	16588
genus.Oxalobacter.id.2978	rs10780690	G	T	0.100	0.021	2.56E-06	4491
genus.LachnospiraceaeFCS020group.id.11314	rs113859143	C	G	-0.109	0.024	2.55E-06	13238
genus.RuminococcaceaeUCG011.id.11368	rs12757695	C	T	-0.118	0.025	2.55E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12756900	G	A	-0.118	0.025	2.55E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12738920	T	G	-0.118	0.025	2.55E-06	3632
genus.RuminococcaceaeUCG013.id.11370	rs75088940	C	T	-0.094	0.020	2.55E-06	15638
genus.Lachnoclostridium.id.11308	rs6045980	C	T	-0.051	0.011	2.55E-06	17841
genus.Turicibacter.id.2162	rs4869133	A	G	0.131	0.027	2.55E-06	8256
genus.Lactococcus.id.1851	rs66638090	C	T	0.112	0.024	2.55E-06	3792
genus.Butyrvibrio.id.1993	rs11153293	T	A	-0.113	0.024	2.55E-06	3481
genus.Butyrvibrio.id.1993	rs11756643	T	C	-0.113	0.024	2.55E-06	3481
genus.Oxalobacter.id.2978	rs6071442	C	T	-0.099	0.021	2.55E-06	4634
genus.Peptococcus.id.2037	rs6814531	T	A	-0.108	0.023	2.55E-06	5526
genus.Alistipes.id.968	rs4068841	C	G	-0.052	0.011	2.55E-06	17571
genus.Bifidobacterium.id.436	rs113974791	T	G	0.075	0.016	2.54E-06	14778
genus.Adlercreutzia.id.812	rs9490822	T	C	-0.073	0.016	2.54E-06	8243
genus.Sellimonas.id.14369	rs2371573	G	A	0.119	0.025	2.54E-06	3153
genus.Victivallis.id.2256	rs12512543	C	A	-0.178	0.037	2.54E-06	3239
genus.Butyrvibrio.id.1993	rs8072835	A	G	0.120	0.026	2.54E-06	3478
genus.RuminococcaceaeUCG002.id.11360	rs117226190	C	G	-0.134	0.028	2.54E-06	10610
genus.LachnospiraceaeUCG008.id.11328	rs1992107	C	T	-0.103	0.022	2.54E-06	7016
genus.Parasutterella.id.2892	rs12498849	A	G	0.063	0.013	2.54E-06	11385

genus. <i>Butyrivibrio</i> .id.1993	rs12451977	C	G	0.121	0.026	2.54E-06	3471
genus. <i>Christensenellaceae</i> R.7group.id.11283	rs8182625	G	A	0.054	0.012	2.54E-06	16325
genus. <i>Ruminococcus</i> gnavusgroup.id.14376	rs329899	T	C	-0.085	0.018	2.54E-06	6398
genus.unknowngenus.id.2755	rs4531902	T	C	0.118	0.025	2.53E-06	8454
genus. <i>Ruminiclostridium</i> 9.id.11357	rs4318510	C	T	-0.052	0.011	2.53E-06	16722
genus. <i>Alistipes</i> .id.968	rs1595991	T	C	-0.051	0.011	2.53E-06	17568
genus. <i>Peptococcus</i> .id.2037	rs2756907	C	T	0.090	0.019	2.53E-06	5656
genus. <i>Ruminococcaceae</i> UCG004.id.11362	rs10874701	C	T	0.116	0.025	2.52E-06	9116
genus. <i>Lachnospiraceae</i> UCG001.id.11321	rs1492259	A	G	0.073	0.015	2.52E-06	10150
genus. <i>Defluviitaleaceae</i> UCG011.id.11287	rs9608282	G	T	0.143	0.030	2.52E-06	7716
genus. <i>Bifidobacterium</i> .id.436	rs766271	C	T	0.056	0.012	2.52E-06	14778
genus. <i>Anaerotruncus</i> .id.2054	rs1923716	C	A	0.075	0.017	2.52E-06	16564
genus. <i>Eubacterium</i> oxidoreducensgroup.id.11339	rs34561138	A	G	0.216	0.046	2.51E-06	4186
genus. <i>Ruminiclostridium</i> 9.id.11357	rs6776225	G	A	-0.053	0.011	2.50E-06	16725
genus. <i>Ruminococcaceae</i> UCG002.id.11360	rs11749444	T	C	-0.057	0.012	2.50E-06	17095
genus. <i>Parasutterella</i> .id.2892	rs35306122	T	G	0.063	0.013	2.50E-06	11386
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs12410988	C	T	-0.119	0.025	2.50E-06	3632
genus. <i>Intestinibacter</i> .id.11345	rs4937041	T	C	-0.140	0.030	2.49E-06	10333
genus. <i>Ruminococcus</i> gnavusgroup.id.14376	rs12659207	C	G	-0.109	0.023	2.49E-06	6327
genus. <i>Parasutterella</i> .id.2892	rs62313332	C	G	0.063	0.013	2.49E-06	11386
genus. <i>Parasutterella</i> .id.2892	rs6846697	A	G	0.063	0.013	2.49E-06	11385
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs11802862	C	A	-0.119	0.025	2.48E-06	3632
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs34592589	T	A	-0.163	0.035	2.48E-06	3632
genus. <i>Roseburia</i> .id.2012	rs6930661	T	C	-0.096	0.020	2.48E-06	16945
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs12746452	G	A	-0.119	0.025	2.48E-06	3632
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs12741747	C	G	-0.119	0.025	2.48E-06	3632
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs12723024	A	G	-0.119	0.025	2.48E-06	3632
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs4626840	C	T	-0.119	0.025	2.48E-06	3632
genus. <i>Ruminococcaceae</i> UCG011.id.11368	rs12746612	C	T	-0.119	0.025	2.48E-06	3632
genus. <i>Desulfovibrio</i> .id.3173	rs2853180	T	A	0.092	0.020	2.48E-06	8949
genus. <i>Lachnoclostridium</i> .id.11308	rs4813353	C	T	-0.051	0.011	2.48E-06	17842

genus.Ruminiclostridium6.id.11356	rs2045348	T	A	0.113	0.024	2.48E-06	13121
genus.Peptococcus.id.2037	rs1530245	A	G	-0.108	0.023	2.47E-06	5526
genus.Butyricimonas.id.945	rs1416263	G	T	0.067	0.014	2.47E-06	10737
genus.RuminococcaceaeUCG011.id.11368	rs10913767	A	G	-0.119	0.025	2.47E-06	3632
genus.Peptococcus.id.2037	rs6813111	G	T	-0.108	0.023	2.46E-06	5526
genus.Anaerotruncus.id.2054	rs4435115	G	A	0.075	0.017	2.46E-06	16566
genus.RuminococcaceaeUCG003.id.11361	rs11637418	T	C	-0.062	0.013	2.46E-06	14409
genus.RuminococcaceaeUCG011.id.11368	rs4625244	A	C	-0.119	0.025	2.46E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs4562582	C	A	-0.119	0.025	2.46E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs12749810	T	G	-0.119	0.025	2.46E-06	3632
genus.Alistipes.id.968	rs10950069	C	T	-0.052	0.011	2.46E-06	17571
genus.RuminococcaceaeUCG014.id.11371	rs13062677	G	A	0.057	0.012	2.46E-06	14403
genus.Ruminiclostridium9.id.11357	rs56089505	T	A	-0.053	0.011	2.46E-06	16725
genus.Butyrivibrio.id.1993	rs74622183	G	A	-0.201	0.043	2.46E-06	3478
genus.CandidatusSoleaferrea.id.11350	rs12566578	T	A	0.108	0.023	2.46E-06	6145
genus.Ruminiclostridium9.id.11357	rs17630086	C	T	-0.053	0.011	2.46E-06	16725
genus.Ruminococcus1.id.11373	rs4148897	T	C	-0.055	0.012	2.45E-06	16607
genus.Anaerotruncus.id.2054	rs11841382	T	G	0.084	0.019	2.45E-06	16566
genus.Oscillibacter.id.2063	rs4981912	C	G	-0.073	0.016	2.45E-06	8926
genus.RuminococcaceaeUCG005.id.11363	rs12604884	T	G	0.068	0.014	2.45E-06	16099
genus.Ruminococcus2.id.11374	rs10199274	C	G	0.066	0.014	2.45E-06	14716
genus.Anaerotruncus.id.2054	rs4575409	C	T	0.075	0.017	2.45E-06	16566
genus.Anaerotruncus.id.2054	rs1575383	A	G	0.075	0.017	2.45E-06	16566
genus.Anaerotruncus.id.2054	rs7989845	A	G	0.075	0.017	2.45E-06	16566
genus.Anaerotruncus.id.2054	rs9603200	G	A	0.075	0.017	2.45E-06	16566
genus.Holdemania.id.2157	rs41438744	G	C	-0.125	0.027	2.44E-06	8839
genus.Streptococcus.id.1853	rs1918540	A	G	0.060	0.013	2.44E-06	16373
genus.Bifidobacterium.id.436	rs56108664	C	T	0.073	0.016	2.44E-06	13916
genus.Butyricimonas.id.945	rs1038524	G	A	0.067	0.014	2.44E-06	10736
genus.Lachnospira.id.2004	rs4923324	A	G	-0.062	0.013	2.44E-06	16490
genus.RuminococcaceaeUCG014.id.11371	rs1476123	C	G	0.057	0.012	2.44E-06	14403

genus.RuminococcaceaeUCG011.id.11368	rs12757935	A	C	-0.119	0.025	2.44E-06	3632
genus.Adlercreutzia.id.812	rs7656076	G	C	-0.084	0.018	2.43E-06	8243
genus.Prevotella9.id.11183	rs2672226	A	T	-0.070	0.015	2.43E-06	10262
genus.RuminococcaceaeUCG011.id.11368	rs12723027	G	A	-0.119	0.025	2.43E-06	3632
genus.Veillonella.id.2198	rs9792152	A	G	-0.078	0.016	2.43E-06	9290
genus.Lachnoclostridium.id.11308	rs6045996	T	C	-0.051	0.011	2.43E-06	17842
genus.Lactococcus.id.1851	rs12620383	A	T	-0.193	0.043	2.43E-06	3787
genus.Ruminiclostridium5.id.11355	rs9300298	A	T	-0.051	0.011	2.43E-06	17397
genus.Collinsella.id.815	rs2103510	A	G	0.079	0.017	2.42E-06	14334
genus.Desulfovibrio.id.3173	rs2853179	T	C	0.081	0.017	2.42E-06	8949
genus.Alistipes.id.968	rs11773813	C	A	-0.052	0.011	2.42E-06	17570
genus.Anaerotruncus.id.2054	rs4669806	T	G	0.058	0.012	2.42E-06	16566
genus.Bifidobacterium.id.436	rs10928519	C	T	0.056	0.012	2.42E-06	14778
genus.Bifidobacterium.id.436	rs77096272	C	A	0.078	0.016	2.42E-06	14777
genus.Butyrvibrio.id.1993	rs8075922	G	A	0.120	0.026	2.42E-06	3478
genus.RuminococcaceaeUCG011.id.11368	rs12724634	T	C	-0.119	0.025	2.42E-06	3632
genus.Ruminiclostridium9.id.11357	rs7612520	T	G	-0.054	0.011	2.42E-06	16725
genus.Senegalimassilia.id.11160	rs72887800	A	T	-0.082	0.018	2.42E-06	6923
genus.Bifidobacterium.id.436	rs309142	T	C	0.073	0.015	2.42E-06	14778
genus.Eubacteriumfissicatengroup.id.14373	rs6722245	G	A	0.124	0.026	2.41E-06	3790
genus.Sellimonas.id.14369	rs2448945	A	G	-0.123	0.026	2.41E-06	3153
genus.Parasutterella.id.2892	rs4342214	G	C	0.063	0.013	2.41E-06	11386
genus.RuminococcaceaeUCG014.id.11371	rs72809222	C	T	0.067	0.014	2.41E-06	13922
genus.RuminococcaceaeUCG005.id.11363	rs12458218	C	T	0.068	0.014	2.41E-06	16099
genus.Veillonella.id.2198	rs4831426	A	G	-0.078	0.016	2.41E-06	9290
genus.Eubacteriumxylanophilumgroup.id.14375	rs79582700	G	C	-0.095	0.020	2.41E-06	13256
genus.Slackia.id.825	rs4492265	G	A	-0.091	0.019	2.41E-06	6063
genus.ErysipelotrichaceaeUCG003.id.11384	rs2052371	T	C	-0.085	0.018	2.41E-06	14899
genus.Eubacteriumbrachygroup.id.11296	rs55716278	A	G	-0.170	0.036	2.41E-06	4000
genus.FamilyXIIIAD3011group.id.11293	rs2999589	T	G	-0.057	0.012	2.40E-06	14191
genus.RuminococcaceaeUCG014.id.11371	rs10941294	T	C	-0.122	0.026	2.40E-06	12615

genus.CandidatusSoleaferrea.id.11350	rs6665956	T	A	0.110	0.023	2.40E-06	6144
genus.Ruminiclostridium5.id.11355	rs10773991	C	T	-0.051	0.011	2.39E-06	17397
genus.Ruminiclostridium9.id.11357	rs62286615	G	A	-0.053	0.011	2.39E-06	16725
genus.Flavonifractor.id.2059	rs12790444	G	A	0.075	0.016	2.39E-06	10708
genus..Eubacteriumbrachygroup.id.11296	rs55932844	G	A	-0.171	0.036	2.39E-06	3999
genus.Lachnoclostridium.id.11308	rs6106066	G	A	-0.050	0.011	2.39E-06	17841
genus.Alloprevotella.id.961	rs17695059	G	C	0.140	0.029	2.39E-06	3009
genus.Anaerotruncus.id.2054	rs7994056	T	C	0.075	0.017	2.39E-06	16566
genus.Anaerotruncus.id.2054	rs9594205	G	A	0.075	0.017	2.39E-06	16566
genus.Anaerotruncus.id.2054	rs9805695	T	C	0.075	0.017	2.39E-06	16566
genus.Anaerotruncus.id.2054	rs1575381	A	T	0.075	0.017	2.39E-06	16566
genus..Eubacteriumoxidoreducensgroup.id.11339	rs2973294	T	G	0.092	0.020	2.39E-06	5378
genus..Eubacteriumruminantiumgroup.id.11340	rs10131724	C	A	-0.200	0.041	2.39E-06	5071
genus.ErysipelotrichaceaeUCG003.id.11384	rs73437837	G	A	-0.085	0.018	2.39E-06	14898
genus.Ruminiclostridium9.id.11357	rs6771341	A	G	-0.054	0.011	2.39E-06	16725
genus..Eubacteriumruminantiumgroup.id.11340	rs16891896	A	G	-0.175	0.039	2.38E-06	4753
genus.Bifidobacterium.id.436	rs309120	G	C	0.074	0.016	2.38E-06	14778
genus..Eubacteriumbrachygroup.id.11296	rs112617308	C	T	-0.171	0.036	2.38E-06	4001
genus.LachnospiraceaeFCS020group.id.11314	rs62140927	T	C	0.061	0.013	2.38E-06	13771
genus.Ruminiclostridium9.id.11357	rs7647356	G	A	-0.054	0.011	2.38E-06	16725
genus.Intestinibacter.id.11345	rs6823047	A	C	0.068	0.014	2.38E-06	12299
genus.Streptococcus.id.1853	rs7134384	T	C	-0.083	0.018	2.38E-06	15743
genus.Ruminiclostridium9.id.11357	rs6808527	A	G	-0.053	0.011	2.38E-06	16725
genus.Holdemania.id.2157	rs150096134	A	T	0.162	0.033	2.38E-06	6906
genus.LachnospiraceaeUCG001.id.11321	rs10815579	C	A	-0.068	0.014	2.38E-06	10148
genus.Ruminiclostridium9.id.11357	rs115044523	A	G	-0.098	0.020	2.37E-06	16107
genus.ChristensenellaceaeR.7group.id.11283	rs8107807	T	C	0.055	0.012	2.37E-06	16325
genus.Akkermansia.id.4037	rs56161035	C	T	0.068	0.014	2.37E-06	11864
genus.LachnospiraceaeUCG001.id.11321	rs3920359	C	A	0.090	0.019	2.37E-06	9918
genus.LachnospiraceaeNK4A136group.id.11319	rs68104925	C	T	-0.055	0.012	2.37E-06	17227
genus.RuminococcaceaeUCG011.id.11368	rs9729514	G	A	0.185	0.039	2.37E-06	3632

genus.Peptococcus.id.2037	rs406155	G	A	-0.109	0.023	2.37E-06	5526
genus.RuminococcaceaeUCG010.id.11367	rs682403	G	A	-0.059	0.012	2.37E-06	12864
genus.Parasutterella.id.2892	rs11931587	T	C	0.063	0.013	2.36E-06	11385
genus.Lactococcus.id.1851	rs55910161	T	C	0.146	0.031	2.36E-06	3836
genus.Bifidobacterium.id.436	rs12464050	G	T	0.078	0.016	2.36E-06	14777
genus.Bifidobacterium.id.436	rs75753154	T	C	0.076	0.016	2.36E-06	14778
genus.Sutterella.id.2896	rs7499539	G	A	0.062	0.013	2.36E-06	13254
genus.Anaerofilum.id.2053	rs503294	G	A	-0.096	0.021	2.35E-06	5050
genus.Lachnoclostridium.id.11308	rs721489	T	C	-0.051	0.011	2.35E-06	17842
genus.Peptococcus.id.2037	rs9401968	C	T	0.129	0.029	2.35E-06	5655
genus.Ruminococcus1.id.11373	rs1026078	T	C	-0.052	0.011	2.35E-06	16607
genus.LachnospiraceaeUCG008.id.11328	rs11236216	C	T	0.084	0.018	2.35E-06	6930
genus.Parasutterella.id.2892	rs13113077	A	T	0.063	0.013	2.35E-06	11385
genus.Copro bacter.id.949	rs213863	T	C	-0.089	0.019	2.35E-06	6798
genus.RuminococcaceaeUCG011.id.11368	rs12739116	C	G	-0.119	0.025	2.35E-06	3632
genus.Holdmania.id.2157	rs116500994	T	G	-0.138	0.029	2.34E-06	8432
genus.Ruminiclostridium9.id.11357	rs62289788	T	C	-0.054	0.011	2.34E-06	16725
genus.Paraprevotella.id.962	rs58117850	A	C	-0.150	0.032	2.34E-06	6838
genus.Adlercreutzia.id.812	rs34181676	T	G	-0.135	0.028	2.34E-06	7929
genus.Allisonella.id.2174	rs4743086	T	G	0.142	0.030	2.34E-06	3212
genus.Ruminiclostridium5.id.11355	rs7294668	T	C	-0.051	0.011	2.34E-06	17397
genus.Erysipelatoclostridium.id.11381	rs587790	A	G	0.083	0.017	2.34E-06	9487
genus.RuminococcaceaeUCG002.id.11360	rs79016051	T	C	-0.089	0.019	2.34E-06	16937
genus.Ruminiclostridium9.id.11357	rs10936144	C	T	-0.061	0.013	2.33E-06	16725
genus.Anaerotruncus.id.2054	rs35078720	C	G	0.076	0.017	2.33E-06	16566
genus.Anaerotruncus.id.2054	rs5000542	G	A	0.076	0.017	2.33E-06	16566
genus.ChristensenellaceaeR.7group.id.11283	rs1812308	T	C	0.055	0.012	2.33E-06	16325
genus.Butyrivibrio.id.1993	rs445349	G	A	-0.114	0.024	2.33E-06	3482
genus.RuminococcaceaeUCG003.id.11361	rs681343	C	T	0.056	0.012	2.33E-06	14411
genus.Bifidobacterium.id.436	rs499483	G	A	0.078	0.016	2.33E-06	14777
genus.Anaerotruncus.id.2054	rs7329262	A	G	0.076	0.017	2.33E-06	16563

genus.Anaerotruncus.id.2054	rs7988812	C	A	0.076	0.017	2.32E-06	16566
genus.Hungatella.id.11306	rs35934050	C	T	-0.161	0.034	2.32E-06	3949
genus.Bifidobacterium.id.436	rs7588568	C	A	-0.062	0.013	2.32E-06	14776
genus.Butyrivibrio.id.1993	rs62492398	G	T	0.154	0.032	2.31E-06	3480
genus.Turicibacter.id.2162	rs11054680	C	T	-0.105	0.023	2.31E-06	8928
genus..Ruminococcusgnavusgroup.id.14376	rs1496279	T	A	-0.088	0.018	2.31E-06	6236
genus.Butyricimonas.id.945	rs1466575	C	T	0.066	0.014	2.31E-06	10737
genus.Parasutterella.id.2892	rs7695721	C	G	0.063	0.013	2.30E-06	11386
genus.Ruminiclostridium5.id.11355	rs10827478	G	T	-0.055	0.012	2.30E-06	17390
genus.ChristensenellaceaeR.7group.id.11283	rs4805044	G	A	0.055	0.012	2.30E-06	16325
genus.Lachnoclostridium.id.11308	rs6045976	G	C	-0.051	0.011	2.29E-06	17842
genus.RuminococcaceaeUCG011.id.11368	rs4233180	A	G	-0.119	0.025	2.29E-06	3632
genus.LachnospiraceaeUCG008.id.11328	rs13024781	C	T	-0.080	0.017	2.29E-06	7016
genus.FamilyXIIIUCG001.id.11294	rs2059580	C	A	-0.064	0.013	2.29E-06	12751
genus.Barnesiella.id.944	rs13242616	C	T	-0.058	0.012	2.29E-06	13945
genus.Alistipes.id.968	rs11771117	G	C	-0.052	0.011	2.29E-06	17571
genus.RuminococcaceaeUCG011.id.11368	rs12758573	A	C	-0.119	0.025	2.29E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs10913766	A	G	-0.119	0.025	2.29E-06	3632
genus.Anaerotruncus.id.2054	rs8005030	T	C	0.055	0.012	2.28E-06	16548
genus.Anaerotruncus.id.2054	rs4514540	C	T	0.076	0.017	2.28E-06	16566
genus.Anaerotruncus.id.2054	rs4578521	C	T	0.076	0.017	2.28E-06	16566
genus.Bifidobacterium.id.436	rs3098103	T	C	0.078	0.016	2.28E-06	14778
genus.Flavonifractor.id.2059	rs12795061	C	A	0.075	0.016	2.28E-06	10704
genus.Oscillibacter.id.2063	rs4981911	A	G	-0.073	0.016	2.28E-06	8926
genus.LachnospiraceaeUCG001.id.11321	rs417387	C	T	0.067	0.014	2.28E-06	10142
genus.Butyrivibrio.id.1993	rs12943847	A	C	0.126	0.027	2.28E-06	3259
genus..Ruminococcusgavreuiiigroup.id.11342	rs289410	A	G	-0.065	0.014	2.27E-06	13380
genus.Parasutterella.id.2892	rs11945744	G	A	0.063	0.013	2.27E-06	11385
genus.RuminococcaceaeUCG011.id.11368	rs4484557	C	T	-0.141	0.030	2.27E-06	3632
genus.Coprococcus2.id.11302	rs72680320	C	T	-0.065	0.014	2.27E-06	11009
genus..Eubacteriumruminantiumgroup.id.11340	rs139746	G	A	0.077	0.016	2.27E-06	7739

genus.Oscillospira.id.2064	rs1954532	C	T	-0.083	0.018	2.27E-06	9841
genus.Eubacteriumeligensgroup.id.14372	rs265534	G	T	-0.056	0.012	2.27E-06	14776
genus.Akkermansia.id.4037	rs12908520	A	G	0.062	0.013	2.26E-06	11862
genus.Sutterella.id.2896	rs9527759	T	C	-0.059	0.012	2.26E-06	13254
genus.Parasutterella.id.2892	rs6837522	G	A	0.063	0.013	2.26E-06	11385
genus.Bifidobacterium.id.436	rs112758679	A	C	0.076	0.016	2.25E-06	14778
genus.Dorea.id.1997	rs13279148	A	G	0.072	0.015	2.25E-06	17605
genus.Butyrivibrio.id.1993	rs462493	C	T	-0.114	0.024	2.25E-06	3482
genus.Paraprevotella.id.962	rs1156275	T	G	-0.084	0.018	2.25E-06	7178
genus.RuminococcaceaeUCG003.id.11361	rs1704773	A	G	0.056	0.012	2.25E-06	14398
genus.RuminococcaceaeUCG011.id.11368	rs7521106	G	A	-0.119	0.025	2.25E-06	3632
genus.Marvinbryantia.id.2005	rs75360912	C	G	-0.074	0.016	2.25E-06	11613
genus.Bifidobacterium.id.436	rs7575241	C	A	0.072	0.015	2.25E-06	14778
genus.Anaerotruncus.id.2054	rs1923719	T	C	0.076	0.017	2.25E-06	16566
genus.Anaerotruncus.id.2054	rs9603204	C	T	0.076	0.017	2.25E-06	16566
genus.Paraprevotella.id.962	rs9531805	T	C	-0.081	0.017	2.25E-06	7179
genus.Akkermansia.id.4037	rs1491244	A	T	0.111	0.024	2.25E-06	11215
genus.Lactobacillus.id.1837	rs62314653	A	C	0.188	0.039	2.24E-06	5944
genus.Intestinibacter.id.11345	rs6590169	T	C	-0.141	0.030	2.24E-06	10333
genus.Eisenbergiella.id.11304	rs2683098	T	C	0.107	0.023	2.24E-06	5582
genus.Allisonella.id.2174	rs16919656	G	T	0.142	0.030	2.24E-06	3212
genus.Anaerofilum.id.2053	rs10794359	C	T	-0.095	0.020	2.23E-06	4994
genus.Butyrificimonas.id.945	rs782080	A	T	0.065	0.014	2.23E-06	10733
genus.Ruminococcustorquesgroup.id.14377	rs17118317	T	C	0.076	0.016	2.23E-06	17011
genus.Bilophila.id.3170	rs10758666	G	T	0.082	0.017	2.22E-06	12855
genus.Collinsella.id.815	rs2671662	G	C	-0.057	0.012	2.22E-06	14334
genus.Peptococcus.id.2037	rs7033353	G	T	0.090	0.019	2.22E-06	5657
genus.Parabacteroides.id.954	rs114875383	C	T	0.102	0.022	2.22E-06	16394
genus.Peptococcus.id.2037	rs6814734	C	T	-0.108	0.023	2.22E-06	5526
genus.RuminococcaceaeUCG003.id.11361	rs16959793	C	A	-0.063	0.013	2.22E-06	14412
genus.Anaerotruncus.id.2054	rs1590305	C	T	0.076	0.017	2.22E-06	16565

genus.Streptococcus.id.1853	rs1601915	C	T	-0.086	0.018	2.21E-06	15329
genus.Parasutterella.id.2892	rs4860617	A	G	0.063	0.013	2.21E-06	11385
genus.Bifidobacterium.id.436	rs13424016	G	A	0.057	0.012	2.21E-06	14777
genus.LachnospiraceaeUCG008.id.11328	rs10833133	A	C	-0.091	0.019	2.21E-06	7016
genus.Anaerotruncus.id.2054	rs1590303	C	A	0.076	0.017	2.21E-06	16565
genus.RuminococcaceaeUCG005.id.11363	rs6958972	T	G	0.054	0.011	2.21E-06	15821
genus.Ruminiclostridium6.id.11356	rs10495465	A	G	0.115	0.024	2.21E-06	12802
genus.Ruminococcustorquesgroup.id.14377	rs492602	A	G	-0.051	0.011	2.21E-06	17798
genus.Ruminiclostridium5.id.11355	rs10430574	T	C	-0.054	0.011	2.21E-06	17387
genus.ChristensenellaceaeR.7group.id.11283	rs8106037	C	G	0.055	0.012	2.21E-06	16236
genus.Hungatella.id.11306	rs4691170	G	A	-0.161	0.033	2.21E-06	3950
genus.RuminococcaceaeUCG011.id.11368	rs4652383	T	A	-0.119	0.025	2.21E-06	3632
genus.Holdemania.id.2157	rs3799996	T	C	0.087	0.018	2.21E-06	9105
genus.Allisonella.id.2174	rs12115448	A	G	0.143	0.030	2.20E-06	3212
genus.Coprococcus3.id.11303	rs13394391	T	C	-0.071	0.015	2.20E-06	15834
genus.Intestinimonas.id.2062	rs62240188	A	G	0.130	0.027	2.20E-06	10252
genus.Haemophilus.id.3698	rs35510	G	A	0.128	0.027	2.20E-06	8430
genus.Butyrivibrio.id.1993	rs11761679	C	T	0.155	0.032	2.20E-06	3482
genus.RuminococcaceaeUCG002.id.11360	rs10927425	T	C	-0.069	0.015	2.20E-06	17096
genus.Olsenella.id.822	rs17148768	A	G	0.140	0.030	2.20E-06	3648
genus.RuminococcaceaeNK4A214group.id.11358	rs73158814	G	C	-0.109	0.023	2.20E-06	13077
genus.Escherichia.Shigella.id.3504	rs73208162	G	A	-0.119	0.025	2.19E-06	11073
genus.Ruminiclostridium9.id.11357	rs6784019	G	A	-0.054	0.011	2.19E-06	16725
genus.Hungatella.id.11306	rs34409952	G	A	-0.161	0.034	2.19E-06	3949
genus.Ruminiclostridium5.id.11355	rs10827477	G	A	-0.055	0.012	2.19E-06	17391
genus.Intestinimonas.id.2062	rs12566247	A	T	0.064	0.014	2.19E-06	12076
genus.Hungatella.id.11306	rs34045034	A	G	-0.161	0.034	2.19E-06	3949
genus.Ruminococcus2.id.11374	rs7638158	T	A	0.062	0.013	2.19E-06	14924
genus.Bifidobacterium.id.436	rs7606267	T	C	0.076	0.016	2.19E-06	14778
genus.Oscillibacter.id.2063	rs9393921	G	T	-0.072	0.015	2.19E-06	8930
genus.Subdoligranulum.id.2070	rs4347804	G	A	0.166	0.036	2.18E-06	4312

genus.Haemophilus.id.3698	rs9574096	T	A	-0.074	0.016	2.18E-06	9118
genus.Desulfovibrio.id.3173	rs6750821	T	C	0.106	0.022	2.18E-06	8776
genus.Bifidobacterium.id.436	rs7573555	T	C	0.076	0.016	2.18E-06	14778
genus.Enterorhabdus.id.820	rs114731706	G	T	0.182	0.038	2.17E-06	5956
genus.Bifidobacterium.id.436	rs62181700	A	G	-0.062	0.013	2.17E-06	14774
genus.Dialister.id.2183	rs10106300	C	A	0.062	0.013	2.17E-06	11989
genus.RuminococcaceaeUCG003.id.11361	rs4386305	T	G	0.096	0.020	2.17E-06	14409
genus.Hungatella.id.11306	rs34995648	A	C	-0.162	0.034	2.17E-06	3949
genus.RuminococcaceaeUCG011.id.11368	rs12758559	A	G	-0.119	0.025	2.17E-06	3632
genus.Odoribacter.id.952	rs3850601	A	T	-0.130	0.027	2.17E-06	11471
genus.Ruminiclostridium9.id.11357	rs1845140	G	A	-0.054	0.011	2.16E-06	16725
genus.Odoribacter.id.952	rs77155862	G	T	-0.129	0.027	2.16E-06	11554
genus.RuminococcaceaeUCG011.id.11368	rs12738929	C	G	-0.119	0.025	2.16E-06	3632
genus.Erysipelatoclostridium.id.11381	rs58236560	T	G	-0.111	0.023	2.16E-06	9368
genus.DefluviitaleaceaeUCG011.id.11287	rs2357084	A	T	-0.108	0.022	2.16E-06	8174
genus.Butyrvibrio.id.1993	rs62420437	C	T	-0.114	0.024	2.16E-06	3482
genus.Eubacteriumruminantiumgroup.id.11340	rs2229917	G	A	0.154	0.032	2.16E-06	7050
genus.Coprococcus2.id.11302	rs2426193	G	C	0.113	0.023	2.16E-06	10932
genus.unknowngenus.id.1000005472	rs17235252	C	T	-0.122	0.026	2.16E-06	9531
genus.Prevotella9.id.11183	rs113200445	C	A	-0.091	0.019	2.16E-06	9384
genus.Odoribacter.id.952	rs598729	C	T	0.055	0.012	2.16E-06	14694
genus.LachnospiraceaeFCS020group.id.11314	rs12078956	G	C	0.106	0.022	2.15E-06	13101
genus.DefluviitaleaceaeUCG011.id.11287	rs55658617	C	T	0.174	0.036	2.15E-06	6663
genus.RuminococcaceaeUCG003.id.11361	rs2251034	G	A	0.056	0.012	2.15E-06	14412
genus.Allisonella.id.2174	rs7872669	C	G	0.144	0.030	2.15E-06	3212
genus.Oscillibacter.id.2063	rs9380079	C	T	-0.072	0.015	2.15E-06	8930
genus.Bifidobacterium.id.436	rs309159	C	T	0.076	0.016	2.15E-06	14778
genus.RuminococcaceaeUCG002.id.11360	rs62374287	T	C	-0.058	0.012	2.14E-06	17096
genus.Paraprevotella.id.962	rs4767113	T	C	0.088	0.018	2.14E-06	6900
genus.Ruminococcus2.id.11374	rs12986628	T	C	0.067	0.014	2.14E-06	14714
genus.Peptococcus.id.2037	rs2054133	A	G	0.090	0.019	2.14E-06	5657

genus.Haemophilus.id.3698	rs9895850	C	T	-0.193	0.042	2.14E-06	4592
genus.Alloprevotella.id.961	rs6472439	A	C	0.141	0.029	2.14E-06	3009
genus.Anaerotruncus.id.2054	rs4436664	G	C	0.076	0.017	2.14E-06	16566
genus.Ruminiclostridium9.id.11357	rs73592673	T	A	-0.082	0.017	2.14E-06	15493
genus.LachnospiraceaeUCG008.id.11328	rs10766569	T	C	-0.090	0.019	2.14E-06	7017
genus.Parasutterella.id.2892	rs4272050	A	G	0.063	0.013	2.13E-06	11385
genus.Alistipes.id.968	rs34890041	C	A	-0.052	0.011	2.13E-06	17571
genus.Intestinibacter.id.11345	rs7949903	T	C	-0.142	0.030	2.13E-06	10333
genus.Intestinibacter.id.11345	rs7950155	T	C	-0.142	0.030	2.13E-06	10333
genus.Hungatella.id.11306	rs35350084	T	C	-0.162	0.033	2.13E-06	3950
genus.LachnospiraceaeUCG008.id.11328	rs29305	C	T	-0.081	0.017	2.13E-06	7017
genus.LachnospiraceaeFCS020group.id.11314	rs4807301	C	T	0.064	0.013	2.13E-06	13541
genus.Bacteroides.id.918	rs9507307	T	C	0.060	0.013	2.13E-06	18184
genus.Bifidobacterium.id.436	rs6728946	C	G	0.076	0.016	2.13E-06	14778
genus.Bifidobacterium.id.436	rs59213715	A	C	0.078	0.016	2.12E-06	14778
genus.Parasutterella.id.2892	rs11942422	T	A	0.063	0.013	2.12E-06	11385
genus.Bifidobacterium.id.436	rs73958638	A	G	0.114	0.024	2.12E-06	11022
genus.Butyrvibrio.id.1993	rs71640701	G	A	0.187	0.039	2.12E-06	3482
genus.LachnospiraceaeNK4A136group.id.11319	rs160061	G	A	0.051	0.011	2.12E-06	17234
genus.LachnospiraceaeUCG008.id.11328	rs11025180	C	A	-0.094	0.020	2.12E-06	7015
genus.Eubacteriumnodatumgroup.id.11297	rs35883366	C	A	-0.165	0.034	2.12E-06	3271
genus.RuminococcaceaeUCG014.id.11371	rs4586787	C	T	0.057	0.012	2.12E-06	14403
genus.RuminococcaceaeUCG003.id.11361	rs570794	T	C	0.056	0.012	2.12E-06	14412
genus.Paraprevotella.id.962	rs9575904	A	G	-0.084	0.018	2.12E-06	7179
genus.Butyrvibrio.id.1993	rs9581730	T	C	-0.124	0.026	2.12E-06	3479
genus.Anaerotruncus.id.2054	rs1923717	A	T	0.076	0.017	2.12E-06	16566
genus.Bifidobacterium.id.436	rs72976292	T	A	0.060	0.013	2.11E-06	14774
genus.RuminococcaceaeUCG011.id.11368	rs56837493	C	T	-0.120	0.025	2.11E-06	3632
genus.Ruminococcus1.id.11373	rs1348965	C	T	-0.055	0.012	2.11E-06	16607
genus.Paraprevotella.id.962	rs140997932	C	T	-0.162	0.035	2.11E-06	6187
genus.LachnospiraceaeUCG008.id.11328	rs12047903	T	G	-0.115	0.024	2.11E-06	7017

genus.Anaerotruncus.id.2054	rs9594208	T	C	0.076	0.017	2.11E-06	16566
genus.Butyriovibrio.id.1993	rs9581732	G	A	-0.124	0.026	2.10E-06	3480
genus.Subdoligranulum.id.2070	rs10065321	C	T	-0.051	0.011	2.10E-06	17589
genus.Holdemannaella.id.11393	rs4541991	C	T	-0.093	0.019	2.10E-06	7657
genus.Anaerotruncus.id.2054	rs56406841	T	A	0.076	0.017	2.10E-06	16566
genus.Parasutterella.id.2892	rs4599442	T	C	0.063	0.013	2.10E-06	11385
genus.Butyricimonas.id.945	rs11908936	A	G	-0.126	0.026	2.09E-06	9948
genus.Bifidobacterium.id.436	rs10174462	C	G	0.073	0.015	2.09E-06	14778
genus.Anaerotruncus.id.2054	rs2224659	A	G	0.076	0.017	2.09E-06	16565
genus.Anaerotruncus.id.2054	rs34027519	C	T	0.076	0.017	2.09E-06	16566
genus.Eubacteriumnodatumgroup.id.11297	rs61969852	A	T	-0.160	0.034	2.09E-06	3270
genus.RuminococcaceaeUCG011.id.11368	rs12525814	A	G	-0.140	0.030	2.09E-06	3632
genus.Phascolarctobacterium.id.2168	rs6427992	C	G	-0.065	0.014	2.09E-06	11113
genus.Hungatella.id.11306	rs41530947	C	T	-0.162	0.033	2.08E-06	3950
genus.Blautia.id.1992	rs66932009	G	A	0.059	0.012	2.08E-06	18162
genus.Intestinibacter.id.11345	rs7936728	G	T	-0.142	0.030	2.08E-06	10333
genus.LachnospiraceaeUCG001.id.11321	rs6699460	G	A	0.073	0.015	2.08E-06	10150
genus.LachnospiraceaeUCG008.id.11328	rs7108105	G	C	0.087	0.018	2.08E-06	7015
genus.Eubacteriumventriosumgroup.id.11341	rs12964517	A	G	0.059	0.012	2.07E-06	15289
genus.Bifidobacterium.id.436	rs10432371	G	A	0.056	0.012	2.07E-06	14778
genus.Flavonifractor.id.2059	rs11811696	C	T	-0.116	0.024	2.07E-06	10221
genus.Paraprevotella.id.962	rs9547270	C	T	-0.082	0.017	2.07E-06	7177
genus.Ruminiclostridium9.id.11357	rs9852745	G	A	-0.053	0.011	2.07E-06	16722
genus.Preotella7.id.11182	rs9608249	G	A	-0.158	0.034	2.07E-06	3482
genus.Hungatella.id.11306	rs56197253	G	A	-0.162	0.033	2.07E-06	3950
genus.Ruminiclostridium9.id.11357	rs15967	C	A	-0.054	0.011	2.07E-06	16725
genus.Lactococcus.id.1851	rs4766997	T	C	0.115	0.024	2.06E-06	4053
genus.Butyriovibrio.id.1993	rs110732	T	G	-0.114	0.024	2.06E-06	3482
genus.RuminococcaceaeUCG011.id.11368	rs79113084	T	C	-0.152	0.032	2.06E-06	3610
genus.Intestinimonas.id.2062	rs10262702	C	T	0.092	0.019	2.06E-06	11766
genus.Dialister.id.2183	rs10086225	G	A	0.062	0.013	2.06E-06	11989

genus.FamilyXIIIAD3011group.id.11293	rs3012191	T	C	-0.057	0.012	2.06E-06	14191
genus.Eubacteriumruminantiumgroup.id.11340	rs139756	A	G	-0.082	0.017	2.06E-06	7314
genus.Marvinbryantia.id.2005	rs2815664	T	C	-0.074	0.015	2.05E-06	11944
genus.RuminococcaceaeUCG014.id.11371	rs10936708	C	G	0.057	0.012	2.05E-06	14403
genus.Clostridiumsensustricto1.id.1873	rs550843	C	T	-0.078	0.017	2.05E-06	14102
genus.Romboutsia.id.11347	rs34683673	G	C	0.076	0.016	2.05E-06	13567
genus.Adlercreutzia.id.812	rs2717140	T	C	-0.119	0.025	2.05E-06	8243
genus.Ruminiclostridium5.id.11355	rs1044471	C	T	-0.051	0.011	2.05E-06	17397
genus.RuminococcaceaeUCG005.id.11363	rs146613210	C	T	0.153	0.032	2.05E-06	9342
genus.Anaerotruncus.id.2054	rs1923718	C	T	0.076	0.017	2.04E-06	16566
genus.Parasutterella.id.2892	rs4355422	C	T	0.063	0.013	2.04E-06	11386
genus.Anaerostipes.id.1991	rs2804244	G	A	-0.053	0.011	2.04E-06	16926
genus.Prevootella9.id.11183	rs746764	C	T	-0.092	0.019	2.04E-06	9385
genus.Bifidobacterium.id.436	rs660002	C	T	0.074	0.015	2.04E-06	14778
genus.Oscillibacter.id.2063	rs761240	G	T	-0.177	0.039	2.04E-06	5185
genus.ChristensenellaceaeR.7group.id.11283	rs1107331	A	G	0.055	0.012	2.04E-06	16324
genus.Intestinibacter.id.11345	rs2204169	C	A	-0.142	0.030	2.04E-06	10333
genus.Lachnoclostridium.id.11308	rs6035283	G	T	-0.052	0.011	2.04E-06	17840
genus.Oxalobacter.id.2978	rs10868235	T	C	0.099	0.021	2.03E-06	4654
genus.Butyrivibrio.id.1993	rs7992720	C	G	-0.124	0.026	2.03E-06	3482
genus.Butyrivibrio.id.1993	rs10456875	G	A	-0.115	0.024	2.03E-06	3482
genus.RuminococcaceaeUCG003.id.11361	rs492602	A	G	0.057	0.012	2.03E-06	14412
genus.Senegalimassilia.id.11160	rs57512504	A	T	0.082	0.017	2.03E-06	6923
genus.Butyrivibrio.id.1993	rs9581731	T	C	-0.124	0.026	2.03E-06	3480
genus.Lachnoclostridium.id.11308	rs615997	C	T	0.051	0.011	2.03E-06	17911
genus.Parasutterella.id.2892	rs11131561	G	A	0.063	0.013	2.03E-06	11385
genus.Prevootella9.id.11183	rs11685699	T	C	-0.141	0.030	2.03E-06	8342
genus.RuminococcaceaeUCG002.id.11360	rs116974815	A	C	-0.190	0.040	2.03E-06	5819
genus.Marvinbryantia.id.2005	rs1187983	T	C	-0.094	0.019	2.02E-06	11896
genus.Butyrivibrio.id.1993	rs456871	T	C	-0.114	0.024	2.02E-06	3482
genus.Streptococcus.id.1853	rs75088533	C	T	-0.089	0.019	2.02E-06	15634

genus.LachnospiraceaeUCG008.id.11328	rs34527770	G	A	0.101	0.021	2.02E-06	7016
genus.Parasutterella.id.2892	rs4304006	T	C	0.063	0.013	2.02E-06	11385
genus.Butyrvibrio.id.1993	rs465795	T	C	-0.115	0.024	2.01E-06	3482
genus.Subdoligranulum.id.2070	rs4688291	C	T	0.051	0.011	2.01E-06	17165
genus.Anaerotruncus.id.2054	rs17055728	A	G	0.076	0.017	2.01E-06	16566
genus.RuminococcaceaeUCG002.id.11360	rs12026045	G	A	-0.069	0.015	2.01E-06	17093
genus.LachnospiraceaeND3007group.id.11317	rs761052	A	G	-0.055	0.012	2.01E-06	15217
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs191030074	G	A	-0.087	0.018	2.01E-06	17272
genus.Butyrvibrio.id.1993	rs7992015	C	T	-0.124	0.026	2.01E-06	3482
genus.Butyrvibrio.id.1993	rs7990675	G	T	-0.124	0.026	2.01E-06	3482
genus.Eubacteriumxylanophilumgroup.id.14375	rs34085021	G	A	0.069	0.014	2.01E-06	13304
genus.Haemophilus.id.3698	rs35509	A	G	0.128	0.027	2.01E-06	8430
genus.Methanobrevibacter.id.123	rs3923545	G	C	0.217	0.045	2.01E-06	3387
genus.Marvinbryantia.id.2005	rs78451158	A	C	-0.074	0.016	2.01E-06	11613
genus.Parasutterella.id.2892	rs4860618	A	G	0.063	0.013	2.01E-06	11385
genus.Anaerotruncus.id.2054	rs55963355	C	T	0.076	0.017	2.00E-06	16566
genus.Dialister.id.2183	rs10086221	T	A	0.062	0.013	2.00E-06	11989
genus.Anaerotruncus.id.2054	rs9603203	G	A	0.076	0.017	2.00E-06	16566
genus.Alistipes.id.968	rs7783848	C	G	-0.052	0.011	2.00E-06	17571
genus.LachnospiraceaeUCG001.id.11321	rs4234364	T	C	0.088	0.018	2.00E-06	9918
genus.Butyrvibrio.id.1993	rs9579031	A	G	-0.124	0.026	2.00E-06	3482
genus.Butyrvibrio.id.1993	rs9581728	C	T	-0.124	0.026	2.00E-06	3482
genus.Anaerostipes.id.1991	rs282969	T	C	0.077	0.017	2.00E-06	16132
genus.Butyricimonas.id.945	rs1466574	G	T	0.067	0.014	2.00E-06	10735
genus.Flavonifractor.id.2059	rs12790857	G	A	0.076	0.016	1.99E-06	10708
genus.Butyrvibrio.id.1993	rs9581727	C	T	-0.124	0.026	1.99E-06	3482
genus.Ruminiclostridium9.id.11357	rs55643438	T	C	-0.054	0.011	1.99E-06	16725
genus.Ruminococcustorquesgroup.id.14377	rs380743	G	A	-0.051	0.011	1.99E-06	17676
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs4076415	G	T	0.052	0.011	1.99E-06	16960
genus.RuminococcaceaeUCG003.id.11361	rs10181077	C	T	0.098	0.020	1.98E-06	14410
genus.Peptococcus.id.2037	rs4035124	T	A	0.153	0.032	1.98E-06	5483

genus.RuminococcaceaeUCG003.id.11361	rs4297864	T	C	0.096	0.020	1.98E-06	14408
genus.LachnospiraceaeUCG008.id.11328	rs72958924	A	G	-0.115	0.024	1.98E-06	7017
genus.Anaerotruncus.id.2054	rs1322804	T	G	0.076	0.017	1.98E-06	16565
genus.Anaerotruncus.id.2054	rs35308611	T	C	0.076	0.017	1.98E-06	16566
genus.Ruminococcus2.id.11374	rs7635831	A	G	0.062	0.013	1.98E-06	14924
genus.Bifidobacterium.id.436	rs4245838	C	T	0.110	0.024	1.98E-06	9918
genus.Coprococcus1.id.11301	rs73031725	C	T	0.168	0.036	1.98E-06	7206
genus.Anaerostipes.id.1991	rs62215703	A	G	0.064	0.014	1.98E-06	15550
genus.Intestinimonas.id.2062	rs9989886	A	G	0.079	0.017	1.98E-06	12090
genus.Bifidobacterium.id.436	rs7556781	A	G	0.071	0.014	1.98E-06	14778
genus.Butyrvibrio.id.1993	rs1374010	C	T	-0.124	0.026	1.97E-06	3480
genus.Erysipelatoclostridium.id.11381	rs2492603	C	T	0.084	0.017	1.97E-06	9489
genus.Lachnoclostridium.id.11308	rs2024617	C	T	-0.052	0.011	1.97E-06	17841
genus.Anaerotruncus.id.2054	rs55796046	G	T	0.076	0.017	1.97E-06	16553
genus.RuminococcaceaeUCG002.id.11360	rs7120052	C	A	0.062	0.014	1.97E-06	17097
genus.Eubacteriumfissicatenaingroup.id.14373	rs13013342	T	C	0.126	0.027	1.97E-06	3793
genus.Oscillibacter.id.2063	rs9348810	T	C	-0.072	0.015	1.97E-06	8929
genus.Anaerotruncus.id.2054	rs9603202	A	G	0.076	0.017	1.97E-06	16566
genus.Anaerotruncus.id.2054	rs9603201	G	C	0.076	0.017	1.97E-06	16566
genus.RuminococcaceaeUCG011.id.11368	rs12406974	A	G	-0.120	0.025	1.96E-06	3632
genus.Ruminococcus1.id.11373	rs17781867	T	C	0.100	0.021	1.96E-06	14349
genus.Bifidobacterium.id.436	rs1592	A	C	0.057	0.012	1.96E-06	14778
genus.Butyricimonas.id.945	rs867047	G	T	0.067	0.014	1.96E-06	10735
genus.Bifidobacterium.id.436	rs512375	T	G	-0.058	0.012	1.96E-06	14776
genus.Akkermansia.id.4037	rs112769434	A	G	0.112	0.024	1.96E-06	11215
genus.Coprococcus1.id.11301	rs1010560	A	C	0.058	0.012	1.96E-06	16723
genus.Peptococcus.id.2037	rs11001948	A	C	-0.191	0.038	1.96E-06	5607
genus.Sellimonas.id.14369	rs2448810	C	T	-0.123	0.026	1.96E-06	3154
genus.Allisonella.id.2174	rs12115447	A	G	0.144	0.030	1.96E-06	3212
genus.Sellimonas.id.14369	rs2606147	G	A	-0.123	0.026	1.96E-06	3154
genus.ChristensenellaceaeR.7group.id.11283	rs10420576	T	C	0.055	0.012	1.96E-06	16325

genus.Lachnoclostridium.id.11308	rs3790181	T	G	-0.052	0.011	1.95E-06	17842
genus.unknowngenus.id.2041	rs10875969	G	A	0.076	0.016	1.95E-06	7944
genus.LachnospiraceaeUCG001.id.11321	rs1608294	C	T	0.090	0.019	1.95E-06	9918
genus.Butyrvibrio.id.1993	rs9581729	T	C	-0.124	0.026	1.95E-06	3482
genus.Ruminiclostridium9.id.11357	rs56410505	G	A	-0.054	0.011	1.95E-06	16725
genus.Ruminiclostridium9.id.11357	rs6797225	T	C	-0.054	0.011	1.95E-06	16725
genus.Butyrvibrio.id.1993	rs467042	T	C	-0.115	0.024	1.94E-06	3482
genus.Holdemanella.id.11393	rs75764681	C	T	-0.283	0.060	1.94E-06	3003
genus.RuminococcaceaeUCG011.id.11368	rs12724496	T	C	-0.120	0.025	1.94E-06	3632
genus.RuminococcaceaeUCG009.id.11366	rs61779334	C	G	-0.138	0.029	1.94E-06	6865
genus.Ruminococcus1.id.11373	rs11214882	C	T	0.079	0.017	1.94E-06	16605
genus.Anaerotruncus.id.2054	rs9594209	T	C	0.076	0.017	1.94E-06	16566
genus.Anaerotruncus.id.2054	rs9603195	G	T	0.076	0.017	1.94E-06	16565
genus.Eubacteriumfissicatenagroup.id.14373	rs7586455	G	A	0.126	0.027	1.94E-06	3792
genus.Hungatella.id.11306	rs34900903	C	T	-0.162	0.034	1.93E-06	3949
genus.Butyrvibrio.id.1993	rs466923	C	T	-0.115	0.024	1.93E-06	3482
genus.Parabacteroides.id.954	rs4236095	A	G	0.076	0.016	1.93E-06	16383
genus.Parabacteroides.id.954	rs115602804	A	G	0.103	0.022	1.93E-06	16394
genus.LachnospiraceaeUCG001.id.11321	rs7514224	A	C	0.078	0.016	1.93E-06	10147
genus.Bifidobacterium.id.436	rs4567981	A	T	0.056	0.012	1.93E-06	14666
genus.Paraprevotella.id.962	rs1414012	T	G	-0.084	0.018	1.93E-06	7177
genus.Paraprevotella.id.962	rs17785622	G	A	0.248	0.052	1.93E-06	3288
genus.Lachnoclostridium.id.11308	rs4814843	T	C	-0.051	0.011	1.92E-06	17842
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs3919476	G	A	-0.077	0.016	1.92E-06	17272
genus.Intestinimonas.id.2062	rs2731794	T	C	0.121	0.026	1.92E-06	11079
genus.Blautia.id.1992	rs66876068	A	G	0.059	0.012	1.92E-06	18151
genus.LachnospiraceaeUCG001.id.11321	rs2320002	T	C	0.090	0.019	1.91E-06	9918
genus.Ruminiclostridium9.id.11357	rs7628293	A	G	-0.054	0.011	1.91E-06	16725
genus.Butyrvibrio.id.1993	rs12214380	C	T	-0.115	0.024	1.91E-06	3476
genus.RuminococcaceaeUCG002.id.11360	rs58365817	G	A	-0.058	0.012	1.90E-06	17094
genus.RuminococcaceaeUCG011.id.11368	rs11759449	G	A	-0.141	0.030	1.90E-06	3632

genus.Bilophila.id.3170	rs1327489	T	C	0.081	0.017	1.90E-06	12856
genus.RuminococcaceaeUCG014.id.11371	rs995642	T	C	0.060	0.013	1.90E-06	14402
genus.LachnospiraceaeUCG001.id.11321	rs17429360	G	C	0.073	0.015	1.90E-06	10148
genus.Bifidobacterium.id.436	rs1992764	C	T	0.057	0.012	1.90E-06	14778
genus.Peptococcus.id.2037	rs56981635	C	T	0.155	0.032	1.90E-06	5482
genus.Prevotella7.id.11182	rs9959718	A	G	0.133	0.028	1.90E-06	3489
genus.Bifidobacterium.id.436	rs59869505	A	C	0.061	0.013	1.90E-06	14778
genus.Parasutterella.id.2892	rs7673335	A	G	0.063	0.013	1.90E-06	11386
genus.Hungatella.id.11306	rs34051109	G	A	-0.163	0.033	1.89E-06	3950
genus.Eubacteriumnodatumgroup.id.11297	rs34860830	G	A	-0.166	0.034	1.89E-06	3271
genus.RuminococcaceaeUCG003.id.11361	rs571689	C	T	0.057	0.012	1.89E-06	14412
genus.Ruminococcustorquesgroup.id.14377	rs646327	A	G	-0.051	0.011	1.89E-06	17792
genus.RuminococcaceaeUCG002.id.11360	rs4457071	T	C	-0.058	0.012	1.89E-06	17097
genus.Streptococcus.id.1853	rs77628647	G	A	-0.089	0.019	1.89E-06	15634
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs12533801	G	A	-0.076	0.016	1.89E-06	17379
genus.Bifidobacterium.id.436	rs309165	T	C	0.074	0.015	1.88E-06	14778
genus.Intestinimonas.id.2062	rs9989754	G	A	0.079	0.017	1.88E-06	12090
genus.Sellimonas.id.14369	rs6754674	G	T	0.121	0.025	1.88E-06	3154
genus.Paraprevotella.id.962	rs9547280	G	A	-0.104	0.022	1.88E-06	6900
genus.Lachnoclostridium.id.11308	rs10854245	C	T	-0.052	0.011	1.88E-06	17841
genus.Peptococcus.id.2037	rs10499019	A	C	0.134	0.029	1.88E-06	5655
genus.Parasutterella.id.2892	rs7675533	C	A	0.064	0.013	1.88E-06	11385
genus.Butyrivibrio.id.1993	rs7997900	T	C	-0.124	0.026	1.87E-06	3482
genus.Phascolarctobacterium.id.2168	rs56069061	A	G	-0.111	0.023	1.87E-06	11007
genus.Bifidobacterium.id.436	rs1960171	C	T	0.063	0.013	1.87E-06	14666
genus.Sutterella.id.2896	rs2321387	A	G	-0.059	0.012	1.87E-06	13252
genus.Bifidobacterium.id.436	rs13415439	C	A	0.061	0.013	1.86E-06	14778
genus.Blautia.id.1992	rs72607721	C	A	0.059	0.012	1.86E-06	18162
genus.Butyrivibrio.id.1993	rs455335	G	A	-0.115	0.024	1.86E-06	3482
genus.Bifidobacterium.id.436	rs6743537	G	A	0.078	0.016	1.86E-06	14778
genus.Ruminococcusgavreuiiigroup.id.11342	rs1391597	T	C	0.059	0.012	1.86E-06	13382

genus.Ruminiclostridium9.id.11357	rs62286617	C	T	-0.054	0.011	1.86E-06	16725
genus.LachnospiraceaeUCG008.id.11328	rs4833423	G	A	-0.081	0.017	1.85E-06	7016
genus.Flavonifractor.id.2059	rs12790684	G	A	0.076	0.016	1.85E-06	10708
genus.Bifidobacterium.id.436	rs2289963	G	A	0.100	0.020	1.85E-06	14778
genus.RuminococcaceaeUCG003.id.11361	rs692854	C	A	0.057	0.012	1.85E-06	14405
genus.LachnospiraceaeUCG001.id.11321	rs2148629	A	G	0.073	0.015	1.85E-06	10148
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs72506102	T	G	-0.077	0.016	1.85E-06	17271
genus.Butyrivibrio.id.1993	rs7992159	C	T	-0.124	0.026	1.85E-06	3482
genus..Eubacteriumrectalegroup.id.14374	rs117151453	C	G	-0.113	0.024	1.84E-06	13908
genus.RuminococcaceaeUCG002.id.11360	rs12031559	C	T	-0.070	0.015	1.84E-06	17092
genus.LachnospiraceaeUCG008.id.11328	rs13433770	A	G	-0.105	0.022	1.84E-06	7017
genus.Ruminiclostridium9.id.11357	rs1845139	C	T	-0.054	0.011	1.84E-06	16725
genus.Ruminiclostridium9.id.11357	rs1845138	C	T	-0.054	0.011	1.84E-06	16725
genus.Parasutterella.id.2892	rs6851752	G	A	0.064	0.013	1.84E-06	11385
genus.Peptococcus.id.2037	rs34282744	C	G	0.192	0.040	1.84E-06	5257
genus.Peptococcus.id.2037	rs9398847	A	G	0.133	0.029	1.83E-06	5526
genus.LachnospiraceaeUCG010.id.11330	rs72825440	G	A	0.120	0.024	1.83E-06	12693
genus.Haemophilus.id.3698	rs76022354	T	C	0.245	0.051	1.83E-06	3618
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs61416816	C	T	0.079	0.017	1.83E-06	16854
genus.Allisonella.id.2174	rs6478039	C	T	0.145	0.030	1.83E-06	3212
genus.Allisonella.id.2174	rs6478038	C	A	0.145	0.030	1.83E-06	3212
genus.unknowngenus.id.2001	rs13276467	C	T	0.073	0.015	1.83E-06	10129
genus.Intestinibacter.id.11345	rs478972	C	T	-0.143	0.030	1.82E-06	10333
genus.Intestinibacter.id.11345	rs1589606	A	G	-0.143	0.030	1.82E-06	10333
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs1921839	T	A	-0.076	0.016	1.82E-06	17377
genus..Eubacteriumxylanophilumgroup.id.14375	rs13239072	A	G	0.069	0.014	1.82E-06	13307
genus.Ruminiclostridium5.id.11355	rs4766415	T	A	-0.052	0.011	1.82E-06	17390
genus..Eubacteriumfissicatenaingroup.id.14373	rs3771391	C	T	0.126	0.027	1.82E-06	3793
genus.Anaerotruncus.id.2054	rs17055747	A	C	0.076	0.017	1.81E-06	16566
genus.Parasutterella.id.2892	rs11731112	A	T	0.064	0.013	1.81E-06	11385
genus.Anaerotruncus.id.2054	rs9594207	A	G	0.076	0.017	1.81E-06	16566

genus.LachnospiraceaeUCG008.id.11328	rs955844	C	A	0.112	0.023	1.81E-06	6863
genus.Intestinimonas.id.2062	rs7568340	T	G	0.079	0.017	1.81E-06	12090
genus.FamilyXIIIAD3011group.id.11293	rs9813981	A	G	0.062	0.013	1.81E-06	14197
genus.Intestinimonas.id.2062	rs13422601	A	G	0.079	0.017	1.80E-06	12090
genus.Butyrvibrio.id.1993	rs4537857	C	T	-0.125	0.026	1.80E-06	3482
genus.Streptococcus.id.1853	rs111923753	C	T	-0.088	0.018	1.80E-06	15633
genus.Intestinibacter.id.11345	rs16938435	C	T	-0.112	0.024	1.80E-06	12303
genus.Eubacteriumruminantiumgroup.id.11340	rs139735	A	C	-0.083	0.017	1.80E-06	7739
genus.Peptococcus.id.2037	rs17829375	G	A	0.134	0.029	1.80E-06	5656
genus.RuminococcaceaeUCG002.id.11360	rs62374283	C	T	-0.058	0.012	1.80E-06	17094
genus.Bacteroides.id.918	rs11585893	G	A	-0.074	0.015	1.80E-06	17821
genus.LachnospiraceaeND3007group.id.11317	rs11248851	C	T	-0.055	0.012	1.80E-06	15220
genus.Desulfovibrio.id.3173	rs16863365	G	A	0.109	0.023	1.79E-06	8776
genus.Ruminococcus1.id.11373	rs12293744	C	T	0.079	0.017	1.79E-06	16607
genus.Anaerotruncus.id.2054	rs9603205	C	A	0.077	0.017	1.79E-06	16566
genus.Intestinimonas.id.2062	rs56186705	T	A	0.064	0.013	1.79E-06	11766
genus.Bilophila.id.3170	rs3827020	T	C	0.077	0.016	1.79E-06	12628
genus.LachnospiraceaeFCS020group.id.11314	rs35781607	T	C	-0.062	0.013	1.79E-06	13772
genus.Subdoligranulum.id.2070	rs9842934	C	T	0.052	0.011	1.79E-06	17165
genus.LachnospiraceaeUCG008.id.11328	rs29304	A	G	-0.081	0.017	1.79E-06	7016
genus.Alistipes.id.968	rs7129639	A	C	-0.052	0.011	1.78E-06	17571
genus.Parasutterella.id.2892	rs6828768	T	C	0.064	0.013	1.78E-06	11386
genus.Butyrvibrio.id.1993	rs9901771	C	T	0.123	0.026	1.78E-06	3471
genus.LachnospiraceaeNK4A136group.id.11319	rs954878	G	A	-0.052	0.011	1.78E-06	17227
genus.Eubacteriumruminantiumgroup.id.11340	rs139745	T	C	-0.082	0.017	1.78E-06	7314
genus.LachnospiraceaeUCG008.id.11328	rs7684377	G	A	-0.081	0.017	1.78E-06	7016
genus.Veillonella.id.2198	rs12679709	G	C	-0.079	0.016	1.78E-06	9290
genus.Eubacteriumnodatumgroup.id.11297	rs12889944	A	T	-0.165	0.034	1.77E-06	3271
genus.Holdemania.id.2157	rs77293403	G	A	0.165	0.034	1.77E-06	7585
genus.Bilophila.id.3170	rs7802841	A	C	0.067	0.014	1.77E-06	12856
genus.Hungatella.id.11306	rs13104209	T	C	-0.150	0.031	1.77E-06	3999

genus.Paraprevotella.id.962	rs1855665	C	A	-0.084	0.018	1.77E-06	7179
genus.RuminococcaceaeUCG004.id.11362	rs6445657	G	A	0.076	0.016	1.77E-06	9502
genus.Tyzzereella3.id.11335	rs11133845	A	G	-0.103	0.022	1.76E-06	5396
genus.Faecalibacterium.id.2057	rs75499067	T	C	0.228	0.047	1.76E-06	4526
genus.RuminococcaceaeUCG003.id.11361	rs11611374	T	A	0.073	0.016	1.76E-06	14309
genus.RuminococcaceaeUCG002.id.11360	rs11750293	T	G	-0.058	0.012	1.76E-06	17094
genus.Tyzzereella3.id.11335	rs7019909	C	T	0.144	0.030	1.76E-06	5396
genus.Butyrivibrio.id.1993	rs455247	A	G	-0.115	0.024	1.76E-06	3482
genus.Hungatella.id.11306	rs34471047	G	A	-0.163	0.033	1.76E-06	3950
genus.Intestinimonas.id.2062	rs7568334	T	A	0.079	0.017	1.76E-06	12090
genus.Bifidobacterium.id.436	rs7560535	G	A	0.091	0.019	1.76E-06	14777
genus.Blautia.id.1992	rs66908300	C	T	0.058	0.012	1.76E-06	18274
genus.Hungatella.id.11306	rs13128780	C	T	-0.150	0.031	1.75E-06	3999
genus.Butyrificimonas.id.945	rs251174	C	T	0.069	0.015	1.75E-06	10736
genus.Ruminiclostridium9.id.11357	rs2615052	G	T	0.058	0.012	1.75E-06	16717
genus.Peptococcus.id.2037	rs55962838	G	A	0.135	0.029	1.74E-06	5655
genus.Roseburia.id.2012	rs9925892	C	A	0.060	0.012	1.74E-06	17841
genus.Eubacteriumventriosumgroup.id.11341	rs16884680	T	G	-0.091	0.019	1.74E-06	15289
genus.Blautia.id.1992	rs72973581	G	A	0.125	0.027	1.74E-06	12764
genus.RuminococcaceaeUCG011.id.11368	rs1416039	C	A	-0.142	0.030	1.74E-06	3632
genus.RuminococcaceaeUCG011.id.11368	rs9404561	C	G	-0.142	0.030	1.74E-06	3632
genus.Anaerotruncus.id.2054	rs9603209	T	C	0.077	0.017	1.74E-06	16565
genus.RuminococcaceaeUCG005.id.11363	rs149070170	C	T	0.154	0.032	1.73E-06	9342
genus.Blautia.id.1992	rs66699833	G	A	0.059	0.012	1.73E-06	18162
genus.LachnospiraceaeUCG001.id.11321	rs2639374	G	A	0.091	0.019	1.72E-06	9918
genus.LachnospiraceaeNK4A136group.id.11319	rs10767692	G	A	0.056	0.012	1.72E-06	16764
genus.Terrisporobacter.id.11348	rs11042141	C	T	0.208	0.044	1.72E-06	4788
genus.Collinsella.id.815	rs73052258	A	G	0.093	0.020	1.72E-06	14334
genus.CandidatusSoleiferrea.id.11350	rs1891244	A	T	0.111	0.023	1.72E-06	6145
genus.LachnospiraceaeUCG001.id.11321	rs10815577	G	C	-0.068	0.014	1.72E-06	10149
genus.Parabacteroides.id.954	rs3860755	C	G	0.056	0.012	1.71E-06	17294

genus..Eubacteriumfissicatenagroup.id.14373	rs7556718	T	C	0.126	0.027	1.71E-06	3793
genus.ChristensenellaceaeR.7group.id.11283	rs4805045	T	C	0.055	0.012	1.71E-06	16325
genus.LachnospiraceaeUCG008.id.11328	rs29362	A	G	0.085	0.018	1.71E-06	7017
genus.Oxalobacter.id.2978	rs62341594	C	T	0.203	0.042	1.71E-06	4245
genus.Butyrivibrio.id.1993	rs456569	G	T	-0.115	0.024	1.71E-06	3482
genus.Tyzzarella3.id.11335	rs75091807	T	G	-0.185	0.038	1.71E-06	4621
genus.Butyrivibrio.id.1993	rs7412979	G	C	0.187	0.039	1.71E-06	3480
genus.Ruminiclostridium5.id.11355	rs2482038	A	C	0.052	0.011	1.70E-06	17396
genus.Bifidobacterium.id.436	rs309170	C	T	0.076	0.016	1.70E-06	14778
genus.Bifidobacterium.id.436	rs79826902	G	A	0.079	0.016	1.70E-06	14778
genus..Eubacteriumruminantiumgroup.id.11340	rs7720502	A	G	0.089	0.019	1.70E-06	7314
genus.Bifidobacterium.id.436	rs11688414	A	G	0.057	0.012	1.70E-06	14777
genus.LachnospiraceaeUCG001.id.11321	rs7621964	T	G	0.091	0.019	1.69E-06	9918
genus.Ruminiclostridium6.id.11356	rs1377112	C	T	0.063	0.013	1.69E-06	13380
genus.Prevotella9.id.11183	rs2683313	G	A	-0.072	0.015	1.69E-06	10260
genus.RuminococcaceaeUCG004.id.11362	rs12123966	A	G	0.124	0.026	1.69E-06	8938
genus.RuminococcaceaeUCG003.id.11361	rs2638282	G	A	0.057	0.012	1.69E-06	14392
genus.Marvinbryantia.id.2005	rs1543595	T	C	-0.080	0.016	1.68E-06	11614
genus.Butyrivibrio.id.1993	rs1623806	C	T	-0.115	0.024	1.68E-06	3482
genus.Methanobrevibacter.id.123	rs9594530	T	C	0.219	0.045	1.68E-06	3387
genus.RuminococcaceaeUCG013.id.11370	rs12189346	A	G	0.068	0.015	1.68E-06	16470
genus.Alistipes.id.968	rs2871785	G	T	-0.053	0.011	1.68E-06	17571
genus.Bifidobacterium.id.436	rs16832205	G	A	0.079	0.016	1.68E-06	14778
genus.RuminococcaceaeUCG004.id.11362	rs7630070	G	A	0.076	0.016	1.68E-06	9501
genus.RuminococcaceaeUCG003.id.11361	rs11243416	C	T	-0.093	0.019	1.67E-06	14004
genus.Haemophilus.id.3698	rs78909003	C	T	-0.246	0.050	1.67E-06	3559
genus.Anaerotruncus.id.2054	rs9594211	C	T	0.077	0.017	1.67E-06	16566
genus.Ruminococcus1.id.11373	rs10769157	T	A	-0.056	0.012	1.66E-06	16606
genus.Bifidobacterium.id.436	rs4954555	T	C	0.111	0.024	1.66E-06	9918
genus.CandidatusSoleaferrea.id.11350	rs4653589	A	G	0.110	0.023	1.66E-06	6145
genus.Ruminiclostridium6.id.11356	rs79968172	A	G	0.116	0.024	1.66E-06	12802

genus..Ruminococcusgnavusgroup.id.14376	rs9872758	C	T	0.085	0.018	1.66E-06	6398
genus.Eggerthella.id.819	rs1860517	A	G	-0.096	0.020	1.66E-06	5147
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs78208790	A	G	-0.076	0.016	1.66E-06	17271
genus..Eubacteriumoxidoreducensgroup.id.11339	rs440215	T	C	0.093	0.020	1.65E-06	5377
genus.FamilyXIIIUCG001.id.11294	rs17604797	G	A	-0.066	0.014	1.65E-06	12736
genus.Alistipes.id.968	rs67705352	G	T	-0.053	0.011	1.65E-06	17567
genus.Ruminococcus1.id.11373	rs11214881	T	C	0.080	0.017	1.65E-06	16607
genus.Eisenbergiella.id.11304	rs12278566	A	T	-0.121	0.025	1.65E-06	5582
genus.Dialister.id.2183	rs4355808	C	T	0.063	0.013	1.65E-06	11989
genus.Bifidobacterium.id.436	rs10841473	C	G	-0.062	0.013	1.65E-06	14777
genus..Eubacteriumruminantiumgroup.id.11340	rs139742	C	T	-0.082	0.017	1.64E-06	7314
genus.Dorea.id.1997	rs4831772	G	A	-0.094	0.019	1.64E-06	16201
genus.Odoribacter.id.952	rs552702	G	T	0.056	0.012	1.64E-06	14698
genus.Ruminiclostridium9.id.11357	rs73168795	G	C	-0.056	0.012	1.64E-06	16725
genus.LachnospiraceaeFCS020group.id.11314	rs72793667	G	A	-0.117	0.025	1.63E-06	12396
genus.Bifidobacterium.id.436	rs309118	G	C	0.075	0.015	1.63E-06	14777
genus..Ruminococcusgavreuiiigroup.id.11342	rs6438086	G	A	0.063	0.013	1.63E-06	13382
genus.Coprococcus2.id.11302	rs6012988	G	C	0.111	0.023	1.63E-06	10931
genus.Dialister.id.2183	rs4909362	C	T	0.063	0.013	1.63E-06	11989
genus.RuminococcaceaeUCG002.id.11360	rs12431415	G	A	0.056	0.012	1.63E-06	17080
genus.Lactococcus.id.1851	rs72799250	T	C	-0.197	0.043	1.63E-06	3787
genus.RuminococcaceaeUCG003.id.11361	rs11613919	T	G	0.073	0.016	1.63E-06	14309
genus.Paraprevotella.id.962	rs9531809	A	C	-0.083	0.017	1.62E-06	7177
genus.Streptococcus.id.1853	rs11110165	T	G	-0.083	0.017	1.62E-06	15220
genus.LachnospiraceaeUCG001.id.11321	rs1851551	C	T	0.091	0.019	1.62E-06	9918
genus.Odoribacter.id.952	rs17781591	G	A	-0.131	0.027	1.62E-06	11471
genus..Ruminococcustorquesgroup.id.14377	rs633372	G	A	-0.051	0.011	1.62E-06	17798
genus.Bifidobacterium.id.436	rs177917	A	G	0.075	0.016	1.62E-06	14778
genus.Methanobrevibacter.id.123	rs11147839	G	A	0.219	0.045	1.62E-06	3388
genus.Bifidobacterium.id.436	rs7568884	C	T	0.061	0.013	1.62E-06	14778
genus.Butyrivibrio.id.1993	rs463242	A	G	-0.116	0.024	1.61E-06	3482

genus.Bifidobacterium.id.436	rs7592990	A	G	0.085	0.018	1.61E-06	14778
genus.Ruminococcus1.id.11373	rs1348964	A	G	-0.056	0.012	1.61E-06	16606
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12155021	A	T	-0.077	0.016	1.61E-06	17271
genus.RuminococcaceaeUCG014.id.11371	rs9290441	T	G	-0.057	0.012	1.61E-06	14403
genus.Bifidobacterium.id.436	rs16833170	A	G	0.061	0.013	1.60E-06	14778
genus.Bifidobacterium.id.436	rs41269821	A	G	0.077	0.016	1.60E-06	14773
genus.Ruminiclostridium9.id.11357	rs55875763	C	G	-0.055	0.011	1.60E-06	16725
genus.Intestinibacter.id.11345	rs6823063	T	C	0.069	0.014	1.60E-06	12300
genus.Ruminiclostridium6.id.11356	rs1377110	G	A	0.063	0.013	1.60E-06	13380
genus.Allisonella.id.2174	rs10521029	T	G	0.146	0.030	1.59E-06	3212
genus.Peptococcus.id.2037	rs13121056	C	G	-0.110	0.023	1.59E-06	5526
genus.Lactobacillus.id.1837	rs11674854	T	C	-0.085	0.018	1.59E-06	6655
genus.RuminococcaceaeUCG004.id.11362	rs1337197	G	A	0.124	0.026	1.59E-06	8938
genus.Ruminiclostridium9.id.11357	rs73172119	G	A	-0.063	0.013	1.59E-06	16725
genus..Ruminococcustorquesgroup.id.14377	rs773123	A	T	0.082	0.017	1.59E-06	17011
genus.LachnospiraceaeUCG008.id.11328	rs62277846	T	C	0.102	0.021	1.59E-06	7016
genus..Ruminococcustorquesgroup.id.14377	rs676388	T	C	-0.051	0.011	1.59E-06	17778
genus.Bifidobacterium.id.436	rs4954571	G	A	0.064	0.014	1.58E-06	14776
genus.Peptococcus.id.2037	rs56272717	C	G	0.155	0.032	1.58E-06	5476
genus..Ruminococcusgnavusgroup.id.14376	rs36058922	T	A	-0.112	0.023	1.58E-06	6328
genus.Lachnoclostridium.id.11308	rs62285313	G	A	0.086	0.018	1.58E-06	16991
genus.Streptococcus.id.1853	rs11110266	C	T	-0.091	0.019	1.58E-06	15734
genus.LachnospiraceaeFCS020group.id.11314	rs1363769	C	T	-0.201	0.045	1.58E-06	3555
genus.LachnospiraceaeUCG001.id.11321	rs6780017	C	A	0.091	0.019	1.58E-06	9918
genus.Bifidobacterium.id.436	rs309161	G	A	0.076	0.016	1.58E-06	14778
genus.Butyrivimonas.id.945	rs2205439	A	G	-0.132	0.027	1.58E-06	10459
genus.Coprococcus2.id.11302	rs1958519	A	T	0.067	0.014	1.58E-06	11009
genus.Anaerotruncus.id.2054	rs9603208	T	G	0.078	0.017	1.57E-06	16566
genus.Parasutterella.id.2892	rs78383039	C	T	-0.146	0.030	1.57E-06	9174
genus.Adlercreutzia.id.812	rs80078995	T	A	-0.113	0.023	1.57E-06	8243
genus.LachnospiraceaeUCG001.id.11321	rs770061	A	G	0.092	0.019	1.57E-06	9912

genus.Coprococcus1.id.11301	rs56405618	G	A	-0.090	0.019	1.57E-06	16379
genus..Ruminococcustorquesgroup.id.14377	rs692854	C	A	-0.051	0.011	1.57E-06	17791
genus..Eubacteriumventriosumgroup.id.11341	rs6036147	A	G	-0.055	0.012	1.57E-06	15215
genus.Anaerofilum.id.2053	rs17105491	C	G	-0.193	0.041	1.57E-06	4856
genus.DefluviitaleaceaeUCG011.id.11287	rs1582238	C	T	0.081	0.017	1.57E-06	7983
genus.Fusicatenibacter.id.11305	rs62353480	G	A	-0.070	0.015	1.57E-06	16119
genus.Blautia.id.1992	rs72607722	G	A	0.060	0.012	1.56E-06	18162
genus.RuminococcaceaeUCG009.id.11366	rs4708333	G	T	-0.084	0.017	1.56E-06	7511
genus.Lachnoclostridium.id.11308	rs6112308	C	T	-0.054	0.011	1.56E-06	17842
genus.Butyriovibrio.id.1993	rs463853	G	C	-0.116	0.024	1.56E-06	3482
genus.Ruminiclostridium6.id.11356	rs17666271	G	A	0.157	0.032	1.55E-06	8955
genus..Ruminococcusgnavusgroup.id.14376	rs1472609	C	T	-0.087	0.018	1.55E-06	6399
genus.Bifidobacterium.id.436	rs2117511	T	C	0.085	0.017	1.54E-06	14778
genus.Tyzzereella3.id.11335	rs17809157	T	A	-0.164	0.034	1.54E-06	4621
genus.Lactococcus.id.1851	rs1547980	G	A	-0.196	0.043	1.54E-06	3787
genus.Bifidobacterium.id.436	rs111682961	C	T	0.080	0.016	1.54E-06	14777
genus.Ruminococcus1.id.11373	rs7101995	C	T	0.054	0.011	1.54E-06	16126
genus.Butyriovibrio.id.1993	rs16941336	T	C	0.127	0.027	1.53E-06	3482
genus.Allisonella.id.2174	rs4743068	C	T	0.130	0.027	1.53E-06	3212
genus.Peptococcus.id.2037	rs1481445	C	G	0.132	0.029	1.53E-06	5655
genus.Tyzzereella3.id.11335	rs4807499	C	T	0.097	0.020	1.53E-06	5320
genus.RuminococcaceaeUCG011.id.11368	rs4330884	A	C	-0.121	0.025	1.53E-06	3632
genus.Ruminiclostridium6.id.11356	rs12362316	G	A	0.074	0.015	1.52E-06	13381
genus.Flavonifractor.id.2059	rs4949654	A	G	-0.066	0.014	1.52E-06	10802
genus.Flavonifractor.id.2059	rs34066017	G	A	0.076	0.016	1.52E-06	10705
genus..Ruminococcustorquesgroup.id.14377	rs427248	C	T	-0.052	0.011	1.52E-06	17676
genus.RuminococcaceaeUCG011.id.11368	rs12724320	T	C	-0.121	0.025	1.52E-06	3632
genus.Paraprevotella.id.962	rs9547278	G	A	-0.103	0.022	1.52E-06	7179
genus.Tyzzereella3.id.11335	rs7561370	C	T	0.131	0.029	1.52E-06	5396
genus.Coprococcus1.id.11301	rs489284	T	A	-0.053	0.011	1.51E-06	16651
genus.RuminococcaceaeUCG002.id.11360	rs12033343	C	G	-0.070	0.015	1.51E-06	17093

genus.Parasutterella.id.2892	rs35414597	A	T	-0.068	0.014	1.51E-06	11386
genus.Victivallis.id.2256	rs7957782	G	A	0.119	0.025	1.51E-06	3263
genus.DefluviitaleaceaeUCG011.id.11287	rs12500663	G	T	-0.115	0.023	1.51E-06	8132
genus.Butyrivibrio.id.1993	rs464401	A	G	-0.116	0.024	1.50E-06	3482
genus.Bifidobacterium.id.436	rs7589832	A	C	0.073	0.015	1.50E-06	14778
genus.Blautia.id.1992	rs12670293	G	A	0.060	0.012	1.50E-06	18162
genus.RuminococcaceaeUCG004.id.11362	rs1449332	T	C	0.077	0.016	1.50E-06	9502
genus.Fusicatenibacter.id.11305	rs41268773	G	C	-0.060	0.012	1.50E-06	17383
genus.Prevotella7.id.11182	rs55821055	G	T	0.156	0.033	1.49E-06	3489
genus.Eubacteriumfissicatenagroup.id.14373	rs2733072	A	G	0.110	0.023	1.49E-06	3833
genus.LachnospiraceaeUCG008.id.11328	rs10734276	T	C	-0.095	0.020	1.49E-06	7014
genus.Bifidobacterium.id.436	rs309119	T	C	0.076	0.016	1.49E-06	14778
genus.Anaerofilum.id.2053	rs4506496	A	G	0.103	0.021	1.49E-06	4935
genus.Akkermansia.id.4037	rs74542928	C	T	0.113	0.024	1.48E-06	11215
genus.Paraprevotella.id.962	rs34103441	G	A	-0.104	0.022	1.48E-06	7179
genus.Gordonibacter.id.821	rs112842944	A	C	0.181	0.038	1.48E-06	3723
genus.Blautia.id.1992	rs55798850	A	G	0.060	0.012	1.47E-06	18162
genus.Methanobrevibacter.id.123	rs73457410	G	A	0.218	0.044	1.47E-06	3387
genus.Intestinimonas.id.2062	rs57647068	A	G	0.080	0.017	1.47E-06	12090
genus.Ruminiclostridium9.id.11357	rs6806967	C	T	-0.063	0.013	1.47E-06	16725
genus.RuminococcaceaeUCG011.id.11368	rs9377652	G	T	-0.143	0.030	1.47E-06	3632
genus.LachnospiraceaeUCG001.id.11321	rs1342129	A	G	0.074	0.015	1.46E-06	10149
genus.Intestinimonas.id.2062	rs11679012	G	A	0.080	0.017	1.46E-06	12090
genus.Sellimonas.id.14369	rs2570230	C	G	-0.124	0.026	1.46E-06	3154
genus.Bifidobacterium.id.436	rs1879087	T	C	0.105	0.024	1.45E-06	9066
genus.Anaerotruncus.id.2054	rs9603207	T	A	0.078	0.017	1.45E-06	16566
genus.Alistipes.id.968	rs11769002	A	G	-0.053	0.011	1.45E-06	17571
genus.Anaerostipes.id.1991	rs62157625	C	T	0.089	0.019	1.45E-06	15215
genus.Bifidobacterium.id.436	rs112396243	C	T	0.080	0.016	1.45E-06	14778
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs10950616	T	C	-0.077	0.016	1.45E-06	17380
genus.DefluviitaleaceaeUCG011.id.11287	rs112893842	C	T	0.114	0.023	1.45E-06	8183

genus.Clostridiuminnocuumgroup.id.14397	rs6884406	G	A	0.112	0.023	1.44E-06	4166
genus.Ruminiclostridium5.id.11355	rs2286384	C	G	-0.052	0.011	1.44E-06	17394
genus.unknowngenus.id.1868	rs12495364	T	C	-0.076	0.016	1.44E-06	10293
genus.Erysipelatoclostridium.id.11381	rs393441	A	T	0.085	0.017	1.43E-06	9489
genus.Intestinimonas.id.2062	rs11258179	G	A	0.065	0.013	1.43E-06	11766
genus.Dialister.id.2183	rs11166707	G	C	0.063	0.013	1.43E-06	11984
genus.Gordonibacter.id.821	rs72714787	A	C	0.181	0.038	1.43E-06	3723
genus.Bifidobacterium.id.436	rs73958618	A	G	0.072	0.015	1.43E-06	14778
genus.RuminococcaceaeUCG004.id.11362	rs9884005	A	G	0.077	0.016	1.43E-06	9502
genus.Escherichia.Shigella.id.3504	rs2267739	C	G	0.116	0.024	1.42E-06	11853
genus.RuminococcaceaeUCG003.id.11361	rs10204449	A	G	0.099	0.020	1.42E-06	14410
genus.Haemophilus.id.3698	rs9328464	C	T	0.072	0.015	1.42E-06	9119
genus.RuminococcaceaeUCG003.id.11361	rs569970	T	C	0.057	0.012	1.42E-06	14323
genus.Lachnoclostridium.id.11308	rs3950143	C	T	-0.052	0.011	1.42E-06	17842
genus.Butyrvibrio.id.1993	rs463854	G	C	-0.116	0.024	1.42E-06	3482
genus.Lactococcus.id.1851	rs12614854	C	T	-0.197	0.043	1.42E-06	3787
genus.Oxalobacter.id.2978	rs12002250	C	A	0.217	0.047	1.42E-06	4297
genus.Oxalobacter.id.2978	rs12004269	T	G	0.217	0.047	1.42E-06	4297
genus.Erysipelatoclostridium.id.11381	rs438876	G	C	0.085	0.017	1.41E-06	9487
genus.Allisonella.id.2174	rs62559861	G	C	0.147	0.030	1.41E-06	3212
genus.LachnospiraceaeUCG008.id.11328	rs7113653	A	C	-0.094	0.019	1.41E-06	7017
genus.Lactobacillus.id.1837	rs328312	A	T	0.082	0.017	1.41E-06	6950
genus.Butyrvibrio.id.1993	rs9689727	C	T	-0.116	0.024	1.41E-06	3481
genus.Ruminococcusgavreuiiigroup.id.11342	rs2039977	T	C	-0.064	0.014	1.40E-06	13379
genus.DefluviitaleaceaeUCG011.id.11287	rs12501518	A	G	-0.110	0.022	1.40E-06	8174
genus.Bifidobacterium.id.436	rs6711493	A	G	0.075	0.015	1.40E-06	14778
genus.Peptococcus.id.2037	rs6531351	A	G	-0.110	0.023	1.40E-06	5526
genus.LachnospiraceaeUCG008.id.11328	rs10801803	A	G	-0.117	0.024	1.40E-06	7017
genus.Intestinimonas.id.2062	rs6716504	T	C	0.080	0.017	1.40E-06	12090
genus.Bifidobacterium.id.436	rs16832243	C	T	0.080	0.016	1.40E-06	14778
genus.Adlercreutzia.id.812	rs2147798	G	C	0.092	0.019	1.40E-06	8243

genus.Intestinimonas.id.2062	rs7581071	G	C	0.080	0.017	1.40E-06	12089
genus.Sellimonas.id.14369	rs2554358	C	T	-0.125	0.026	1.40E-06	3154
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs61227640	T	C	-0.076	0.016	1.40E-06	17377
genus.Oscillibacter.id.2063	rs36095275	T	C	-0.075	0.016	1.40E-06	8694
genus.Lactococcus.id.1851	rs2293361	T	C	-0.199	0.043	1.40E-06	3787
genus.LachnospiraceaeUCG001.id.11321	rs10493703	A	T	0.074	0.015	1.40E-06	10148
genus.Streptococcus.id.1853	rs114279530	G	A	-0.087	0.018	1.39E-06	15634
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs10241138	T	C	0.078	0.016	1.39E-06	17380
genus.LachnospiraceaeUCG008.id.11328	rs11600957	T	C	-0.094	0.019	1.39E-06	7016
genus..Eubacteriumnodatumgroup.id.11297	rs4609756	G	T	-0.169	0.034	1.39E-06	3295
genus..Eubacteriumnodatumgroup.id.11297	rs4432189	A	T	-0.169	0.034	1.39E-06	3295
genus..Eubacteriumnodatumgroup.id.11297	rs4255714	T	A	-0.164	0.034	1.39E-06	3271
genus.ErysipelotrichaceaeUCG003.id.11384	rs11877693	G	C	-0.095	0.019	1.39E-06	14895
genus.Streptococcus.id.1853	rs11769597	T	C	-0.070	0.014	1.39E-06	16384
genus.LachnospiraceaeFCS020group.id.11314	rs9788306	T	C	-0.063	0.013	1.39E-06	13772
genus.Odoribacter.id.952	rs17103634	G	T	-0.129	0.027	1.39E-06	11935
genus.Lachnoclostridium.id.11308	rs6081576	C	T	-0.054	0.011	1.38E-06	17842
genus.RuminococcaceaeUCG004.id.11362	rs6777368	C	G	0.077	0.016	1.38E-06	9502
genus..Ruminococcusgnavusgroup.id.14376	rs1472354	A	G	-0.112	0.023	1.38E-06	6327
genus.Bifidobacterium.id.436	rs7593370	C	T	0.057	0.012	1.38E-06	14778
genus..Eubacteriumrectalegroup.id.14374	rs314726	C	T	0.053	0.011	1.38E-06	16966
genus.Faecalibacterium.id.2057	rs6910935	G	A	0.135	0.028	1.38E-06	12640
genus.LachnospiraceaeND3007group.id.11317	rs761051	C	T	-0.056	0.012	1.38E-06	15220
genus.CandidatusSoleaferrea.id.11350	rs61825792	C	T	0.112	0.023	1.37E-06	6145
genus.Bifidobacterium.id.436	rs4988243	T	C	0.114	0.024	1.37E-06	12052
genus.ChristensenellaceaeR.7group.id.11283	rs9304850	C	G	0.056	0.012	1.37E-06	16325
genus.CandidatusSoleaferrea.id.11350	rs4294381	C	T	0.112	0.023	1.37E-06	6145
genus.Streptococcus.id.1853	rs957755	G	T	-0.070	0.014	1.37E-06	16387
genus..Eubacteriumruminantiumgroup.id.11340	rs139750	G	A	-0.083	0.017	1.36E-06	7314
genus.Holdemanella.id.11393	rs73011279	C	T	-0.096	0.020	1.36E-06	7456
genus.RuminococcaceaeUCG004.id.11362	rs35483270	C	T	0.124	0.026	1.36E-06	8938

genus.RuminococcaceaeUCG004.id.11362	rs6804196	G	A	0.077	0.016	1.35E-06	9502
genus.Bifidobacterium.id.436	rs309158	A	G	0.075	0.015	1.35E-06	14778
genus..Ruminococcustorquesgroup.id.14377	rs838144	T	C	-0.052	0.011	1.35E-06	17682
genus.RuminococcaceaeUCG002.id.11360	rs10927424	T	G	-0.070	0.015	1.35E-06	17096
genus.LachnospiraceaeUCG008.id.11328	rs10766568	C	G	-0.093	0.019	1.35E-06	7017
genus.Intestinimonas.id.2062	rs2930225	T	G	0.073	0.015	1.35E-06	12003
genus.Sellimonas.id.14369	rs1505357	C	T	0.122	0.025	1.34E-06	3154
genus.Bifidobacterium.id.436	rs57243841	A	G	0.068	0.014	1.34E-06	14666
genus.Tyzzereella3.id.11335	rs55799124	G	A	-0.114	0.024	1.34E-06	5362
genus.Ruminiclostridium9.id.11357	rs10936143	T	C	-0.064	0.013	1.34E-06	16725
genus.Bacteroides.id.918	rs195028	A	G	0.080	0.017	1.33E-06	17404
genus.Tyzzereella3.id.11335	rs34606911	T	C	0.098	0.020	1.33E-06	5316
genus.Peptococcus.id.2037	rs11001941	A	G	-0.196	0.039	1.33E-06	5607
genus.Parasutterella.id.2892	rs7303158	T	C	0.065	0.013	1.33E-06	11386
genus.Dialister.id.2183	rs4263802	A	G	0.063	0.013	1.33E-06	11989
genus.Ruminiclostridium5.id.11355	rs243585	G	C	-0.059	0.012	1.33E-06	16906
genus.DefluviitaleaceaeUCG011.id.11287	rs2357086	C	T	-0.110	0.022	1.33E-06	8174
genus.ErysipelotrichaceaeUCG003.id.11384	rs11994308	T	C	0.115	0.024	1.33E-06	13558
genus.Actinomyces.id.423	rs17072071	A	C	-0.120	0.025	1.33E-06	7109
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs11508469	G	A	-0.076	0.016	1.33E-06	17377
genus.Marvinbryantia.id.2005	rs41336744	G	A	-0.076	0.016	1.32E-06	11613
genus.Gordonibacter.id.821	rs77754772	C	T	-0.226	0.047	1.32E-06	3444
genus.Lactococcus.id.1851	rs34189344	G	A	0.115	0.024	1.32E-06	3792
genus.Anaerotruncus.id.2054	rs9594210	C	T	0.078	0.017	1.32E-06	16566
genus.RikenellaceaeRC9gutgroup.id.11191	rs2479314	T	C	-0.180	0.038	1.32E-06	3334
genus.Intestinimonas.id.2062	rs11689582	A	T	0.080	0.017	1.31E-06	12090
genus..Ruminococcusgavreuiiigroup.id.11342	rs6772337	G	A	0.061	0.013	1.31E-06	13373
genus.Marvinbryantia.id.2005	rs61193268	A	G	0.123	0.025	1.31E-06	11613
genus.Intestinimonas.id.2062	rs60282801	T	C	0.080	0.017	1.30E-06	12089
genus.Faecalibacterium.id.2057	rs1271565	T	C	-0.058	0.012	1.30E-06	17638
genus.Ruminiclostridium9.id.11357	rs11719388	G	T	-0.056	0.012	1.30E-06	16725

genus.Ruminiclostridium6.id.11356	rs77193512	G	A	0.074	0.015	1.30E-06	13380
genus.Bacteroides.id.918	rs28757219	A	T	0.082	0.017	1.29E-06	14833
genus.ErysipelotrichaceaeUCG003.id.11384	rs2302840	C	T	-0.087	0.018	1.29E-06	14897
genus.Ruminiclostridium9.id.11357	rs12631704	A	G	-0.063	0.013	1.29E-06	16725
genus.Bifidobacterium.id.436	rs606101	G	A	-0.060	0.012	1.29E-06	14020
genus.Odoribacter.id.952	rs17103646	A	G	-0.130	0.027	1.29E-06	11935
genus.Lactococcus.id.1851	rs10417872	G	T	0.118	0.025	1.29E-06	4056
genus.Streptococcus.id.1853	rs11764382	G	A	-0.070	0.014	1.29E-06	16387
genus..Ruminococcustorquesgroup.id.14377	rs8103840	T	C	-0.052	0.011	1.28E-06	17353
genus.Lactobacillus.id.1837	rs16861661	A	G	-0.183	0.038	1.28E-06	5325
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs10950613	G	A	-0.077	0.016	1.28E-06	17377
genus.Intestinimonas.id.2062	rs62109973	T	C	0.080	0.017	1.28E-06	12090
genus.Haemophilus.id.3698	rs111582866	A	G	-0.124	0.026	1.27E-06	8370
genus.RuminococcaceaeUCG004.id.11362	rs9817603	T	C	0.077	0.016	1.27E-06	9502
genus.Holdemania.id.2157	rs11024781	A	T	0.078	0.016	1.27E-06	9108
genus.Prevothella7.id.11182	rs62115045	G	A	0.152	0.032	1.27E-06	3487
genus.Lactococcus.id.1851	rs123059	C	T	-0.137	0.027	1.27E-06	3760
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs10950614	C	G	-0.077	0.016	1.26E-06	17373
genus.RuminococcaceaeUCG004.id.11362	rs12034204	T	A	0.126	0.026	1.26E-06	8938
genus.Intestinimonas.id.2062	rs60896692	T	C	0.080	0.017	1.26E-06	12090
genus.Lachnoclostridium.id.11308	rs6106063	C	T	-0.053	0.011	1.26E-06	17842
genus.Blautia.id.1992	rs12453000	T	C	0.063	0.013	1.26E-06	17815
genus.Tyzzzeria3.id.11335	rs8102732	G	C	0.098	0.020	1.26E-06	4948
genus.LachnospiraceaeUCG001.id.11321	rs16810	T	C	0.068	0.014	1.25E-06	10150
genus.Paraprevotella.id.962	rs9547275	G	A	-0.104	0.022	1.25E-06	7179
genus.Lachnoclostridium.id.11308	rs3827978	C	T	-0.055	0.011	1.25E-06	17842
genus.Peptococcus.id.2037	rs1978932	G	T	-0.111	0.023	1.25E-06	5526
genus.Odoribacter.id.952	rs17103637	C	T	-0.130	0.027	1.25E-06	11935
genus.Romboutsia.id.11347	rs61841477	C	A	0.082	0.017	1.25E-06	13568
genus.FamilyXIIIUCG001.id.11294	rs1426266	C	T	-0.067	0.014	1.25E-06	12751
genus.LachnospiraceaeND3007group.id.11317	rs9932954	G	A	-0.056	0.012	1.25E-06	15222

genus.Peptococcus.id.2037	rs13143446	T	G	-0.111	0.023	1.25E-06	5526
genus.RuminococcaceaeUCG003.id.11361	rs584768	G	A	0.058	0.012	1.24E-06	14392
genus.Intestinimonas.id.2062	rs28704834	T	C	0.081	0.017	1.24E-06	12090
genus.Eubacteriumnodatumgroup.id.11297	rs12890135	A	G	-0.165	0.034	1.24E-06	3270
genus.Prevotella9.id.11183	rs111509883	C	T	0.171	0.035	1.24E-06	6960
genus.Victivallis.id.2256	rs12575328	G	A	-0.154	0.032	1.24E-06	3266
genus.RuminococcaceaeUCG004.id.11362	rs1992962	C	T	0.077	0.016	1.24E-06	9502
genus.RuminococcaceaeUCG004.id.11362	rs7373223	T	G	0.077	0.016	1.24E-06	9501
genus.Gordonibacter.id.821	rs34967912	G	A	-0.226	0.047	1.24E-06	3444
genus.Ruminiclostridium9.id.11357	rs11707696	T	G	-0.056	0.012	1.23E-06	16725
genus.Intestinimonas.id.2062	rs1381514	C	T	0.080	0.017	1.23E-06	12090
genus.Intestinimonas.id.2062	rs62109974	T	C	0.080	0.017	1.23E-06	12090
genus.Lachnoclostridium.id.11308	rs6035303	G	A	-0.054	0.011	1.23E-06	17841
genus.Methanobrevibacter.id.123	rs73457427	G	A	0.221	0.045	1.22E-06	3387
genus.Bifidobacterium.id.436	rs10496738	C	T	0.081	0.016	1.22E-06	14778
genus.Intestinimonas.id.2062	rs4287737	G	C	0.081	0.017	1.22E-06	12089
genus.Peptococcus.id.2037	rs1348140	A	G	-0.111	0.023	1.22E-06	5526
genus.Enterorhabdus.id.820	rs10764181	A	C	0.083	0.017	1.21E-06	7524
genus.Odoribacter.id.952	rs115320778	G	A	-0.130	0.027	1.21E-06	11935
genus.Ruminiclostridium9.id.11357	rs73172114	A	G	-0.064	0.013	1.21E-06	16725
genus.Bifidobacterium.id.436	rs2053726	A	G	0.057	0.012	1.21E-06	14778
genus.RuminococcaceaeUCG014.id.11371	rs12638134	G	T	0.058	0.012	1.21E-06	14403
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs57026722	A	G	-0.078	0.016	1.21E-06	17271
genus.LachnospiraceaeUCG004.id.11324	rs2882478	A	G	-0.058	0.012	1.21E-06	14466
genus.LachnospiraceaeUCG008.id.11328	rs1487192	G	A	-0.096	0.020	1.21E-06	7015
genus.Ruminococcus1.id.11373	rs7102941	T	C	0.081	0.017	1.21E-06	16607
genus.Bifidobacterium.id.436	rs7604460	T	C	0.081	0.016	1.21E-06	14666
genus.RuminococcaceaeUCG004.id.11362	rs7426795	C	T	0.077	0.016	1.21E-06	9501
genus.Allisonella.id.2174	rs35778461	T	C	0.147	0.030	1.21E-06	3212
genus.Peptococcus.id.2037	rs1978933	C	T	-0.111	0.023	1.21E-06	5526
genus.Dialister.id.2183	rs6982344	A	G	0.064	0.013	1.21E-06	11985

genus.RuminococcaceaeUCG004.id.11362	rs9880860	G	T	0.077	0.016	1.20E-06	9501
genus.Sellimonas.id.14369	rs10804205	C	T	0.123	0.025	1.20E-06	3153
genus.Lachnoclostridium.id.11308	rs2143856	T	C	-0.053	0.011	1.20E-06	17842
genus.Roseburia.id.2012	rs116270582	A	T	-0.154	0.033	1.20E-06	9099
genus.Butyricimonas.id.945	rs4746071	C	T	0.068	0.014	1.19E-06	10736
genus.Barnesiella.id.944	rs60316894	T	C	-0.121	0.025	1.19E-06	12717
genus.Olsenella.id.822	rs62112538	T	C	-0.199	0.041	1.19E-06	3630
genus.Tyzzereella3.id.11335	rs4147931	G	C	0.098	0.020	1.19E-06	5319
genus.Coprococcus2.id.11302	rs6677933	T	C	-0.080	0.016	1.19E-06	11483
genus.LachnospiraceaeUCG001.id.11321	rs6769749	G	A	0.090	0.018	1.18E-06	9918
genus.Flavonifractor.id.2059	rs806808	C	T	0.067	0.014	1.18E-06	10801
genus.Ruminiclostridium9.id.11357	rs7617666	A	C	-0.056	0.012	1.18E-06	16725
genus.ChristensenellaceaeR.7group.id.11283	rs1812307	G	A	0.057	0.012	1.17E-06	16325
genus.Anaerotruncus.id.2054	rs9603206	T	G	0.078	0.017	1.17E-06	16566
genus.FamilyXIIIUCG001.id.11294	rs12049454	C	T	-0.065	0.013	1.17E-06	12748
genus.Bifidobacterium.id.436	rs12469411	C	T	0.057	0.012	1.17E-06	14778
genus.Oscillibacter.id.2063	rs380914	C	T	-0.074	0.015	1.17E-06	8930
genus.RuminococcaceaeUCG013.id.11370	rs11251085	G	A	-0.055	0.011	1.17E-06	16766
genus.Romboutsia.id.11347	rs10279978	G	A	-0.062	0.013	1.17E-06	14143
genus.Peptococcus.id.2037	rs1441208	C	A	-0.111	0.023	1.17E-06	5526
genus.RuminococcaceaeUCG005.id.11363	rs60317497	G	T	0.157	0.032	1.17E-06	9342
genus.Bifidobacterium.id.436	rs721765	C	A	0.081	0.016	1.16E-06	14778
genus.RuminococcaceaeUCG003.id.11361	rs62177720	C	T	0.099	0.020	1.16E-06	14410
genus.Ruminococcusgnavusgroup.id.14376	rs13176281	C	T	-0.112	0.023	1.16E-06	6328
genus.Intestinimonas.id.2062	rs28615759	C	T	0.081	0.017	1.16E-06	12090
genus.Peptococcus.id.2037	rs62424012	A	G	0.137	0.029	1.15E-06	5656
genus.Parasutterella.id.2892	rs10899911	G	A	-0.072	0.015	1.15E-06	11386
genus.Bifidobacterium.id.436	rs12474975	A	T	0.080	0.016	1.15E-06	14778
genus.RuminococcaceaeUCG002.id.11360	rs7155595	A	C	0.057	0.012	1.15E-06	17084
genus.Peptococcus.id.2037	rs6918730	A	G	0.135	0.029	1.15E-06	5656
genus.Oscillibacter.id.2063	rs133832	C	A	-0.080	0.016	1.15E-06	8926

genus.Bifidobacterium.id.436	rs6430585	C	A	0.073	0.015	1.15E-06	14778
genus.Ruminiclostridium5.id.11355	rs79968837	G	A	-0.095	0.019	1.15E-06	16602
genus.Intestinimonas.id.2062	rs11258177	T	C	0.065	0.013	1.14E-06	11766
genus.Intestinimonas.id.2062	rs1037943	A	G	0.081	0.017	1.14E-06	12090
genus.Paraprevotella.id.962	rs9900242	G	A	-0.085	0.018	1.14E-06	6900
genus.Bifidobacterium.id.436	rs4954575	G	A	0.062	0.013	1.14E-06	14778
genus.Intestinimonas.id.2062	rs72774198	G	A	0.081	0.017	1.14E-06	12090
genus.FamilyXIIIAD3011group.id.11293	rs9876298	C	T	0.063	0.013	1.13E-06	14201
genus.RuminococcaceaeUCG009.id.11366	rs1550196	A	G	0.131	0.026	1.13E-06	7389
genus.Bifidobacterium.id.436	rs3814358	A	C	0.057	0.012	1.13E-06	14778
genus.ErysipelotrichaceaeUCG003.id.11384	rs10164067	G	T	-0.103	0.021	1.13E-06	14427
genus.Oscillibacter.id.2063	rs9501180	C	T	-0.074	0.015	1.13E-06	8930
genus.Bifidobacterium.id.436	rs1374291	T	C	0.058	0.012	1.13E-06	14778
genus.Dialister.id.2183	rs7814375	A	C	0.064	0.013	1.13E-06	11988
genus..Ruminococcustorquesgroup.id.14377	rs2548459	T	C	-0.052	0.011	1.12E-06	17794
genus.Howardella.id.2000	rs17167098	A	G	-0.169	0.035	1.12E-06	3586
genus.Bilophila.id.3170	rs1571225	T	C	0.083	0.017	1.12E-06	12854
genus..Clostridiuminnocuumgroup.id.14397	rs6890185	C	T	0.113	0.023	1.12E-06	4166
genus.Bifidobacterium.id.436	rs62168891	C	T	0.058	0.012	1.12E-06	14778
genus.Streptococcus.id.1853	rs11110070	G	A	-0.088	0.018	1.12E-06	15741
genus.Bifidobacterium.id.436	rs75667274	C	T	0.081	0.016	1.11E-06	14773
genus.Butyrivibrio.id.1993	rs10872067	C	T	-0.117	0.024	1.11E-06	3481
genus.Ruminiclostridium9.id.11357	rs9845388	C	T	-0.057	0.012	1.11E-06	16720
genus.LachnospiraceaeUCG001.id.11321	rs2050911	A	G	0.075	0.015	1.11E-06	10148
genus.Oxalobacter.id.2978	rs4287929	G	A	0.120	0.025	1.10E-06	4655
genus.Akkermansia.id.4037	rs4936098	G	A	0.065	0.014	1.10E-06	11857
genus.RuminococcaceaeUCG004.id.11362	rs9880873	G	T	0.078	0.016	1.10E-06	9501
genus.RuminococcaceaeUCG004.id.11362	rs11164698	G	A	0.126	0.026	1.10E-06	8938
genus.Bifidobacterium.id.436	rs6430601	G	T	0.080	0.017	1.09E-06	14776
genus.Oscillospira.id.2064	rs73038677	A	T	-0.083	0.017	1.09E-06	10195
genus.Intestinimonas.id.2062	rs67857937	C	A	0.081	0.017	1.09E-06	12090

genus.Intestinimonas.id.2062	rs62109976	G	A	0.081	0.017	1.09E-06	12090
genus.Bifidobacterium.id.436	rs625118	C	A	0.086	0.018	1.09E-06	14778
genus.RuminococcaceaeUCG003.id.11361	rs676388	T	C	0.058	0.012	1.09E-06	14393
genus.Sellimonas.id.14369	rs62016462	C	T	0.234	0.048	1.09E-06	3153
genus.Intestinimonas.id.2062	rs62109972	T	C	0.081	0.017	1.09E-06	12090
genus.Ruminiclostridium6.id.11356	rs61060922	G	T	0.159	0.032	1.09E-06	8955
genus.Lachnoclostridium.id.11308	rs6081565	G	A	-0.055	0.011	1.09E-06	17839
genus.Phascolarctobacterium.id.2168	rs56157888	C	A	0.095	0.019	1.09E-06	10031
genus.Bifidobacterium.id.436	rs6430549	A	G	0.057	0.012	1.08E-06	14778
genus.Peptococcus.id.2037	rs1441209	T	C	-0.112	0.023	1.08E-06	5526
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs17169417	T	C	-0.078	0.016	1.08E-06	17274
genus.LachnospiraceaeUCG008.id.11328	rs2158198	G	A	-0.083	0.017	1.08E-06	7016
genus.Ruminiclostridium6.id.11356	rs71414120	G	T	0.201	0.041	1.08E-06	5567
genus.Fusicatenibacter.id.11305	rs2132128	A	G	-0.077	0.016	1.08E-06	17370
genus.Methanobrevibacter.id.123	rs76029318	C	T	0.223	0.045	1.08E-06	3387
genus.Peptococcus.id.2037	rs1978930	G	T	-0.112	0.023	1.07E-06	5526
genus.Oxalobacter.id.2978	rs6071435	A	T	-0.106	0.021	1.07E-06	4635
genus.Intestinibacter.id.11345	rs9999821	C	G	0.070	0.014	1.07E-06	12300
genus.Streptococcus.id.1853	rs11110084	G	A	-0.091	0.019	1.07E-06	15634
genus.Anaerofilum.id.2053	rs1965460	C	T	-0.099	0.021	1.06E-06	5051
genus.Butyrvibrio.id.1993	rs6913769	A	G	-0.118	0.024	1.06E-06	3481
genus.Eubacteriumnodatumgroup.id.11297	rs12897317	C	T	-0.169	0.034	1.06E-06	3294
genus.RuminococcaceaeUCG011.id.11368	rs7746459	T	A	-0.165	0.034	1.06E-06	3632
genus.RuminococcaceaeUCG004.id.11362	rs6445655	T	A	0.078	0.016	1.05E-06	9502
genus.Bifidobacterium.id.436	rs147616090	C	T	0.074	0.015	1.05E-06	14778
genus.RuminococcaceaeUCG011.id.11368	rs12524558	A	C	-0.147	0.030	1.05E-06	3632
genus.Bifidobacterium.id.436	rs4954191	C	G	0.057	0.012	1.05E-06	14778
genus.Bifidobacterium.id.436	rs115553816	G	A	0.081	0.016	1.05E-06	14778
genus.RuminococcaceaeUCG002.id.11360	rs12023531	T	C	-0.071	0.015	1.05E-06	17096
genus.Intestinibacter.id.11345	rs78948008	A	T	0.144	0.029	1.04E-06	9986
genus.Oscillospira.id.2064	rs12206468	A	G	-0.133	0.027	1.04E-06	9554

genus.ChristensenellaceaeR.7group.id.11283	rs6510389	C	A	0.057	0.012	1.04E-06	16323
genus.Intestinimonas.id.2062	rs1381515	C	T	0.081	0.017	1.04E-06	12090
genus.Blautia.id.1992	rs11149971	T	C	0.118	0.023	1.04E-06	16255
genus.Streptococcus.id.1853	rs12367581	T	A	-0.100	0.020	1.04E-06	15743
genus.Intestinimonas.id.2062	rs62109975	G	C	0.081	0.017	1.04E-06	12090
genus.Paraprevotella.id.962	rs9547279	A	T	-0.105	0.022	1.04E-06	7179
genus..Ruminococcustorquesgroup.id.14377	rs1704773	A	G	-0.052	0.011	1.03E-06	17783
genus.Bifidobacterium.id.436	rs11895609	A	T	0.079	0.017	1.03E-06	14778
genus.Streptococcus.id.1853	rs72739637	G	A	0.096	0.019	1.03E-06	14920
genus.Coprococcus1.id.11301	rs74101919	C	T	-0.072	0.014	1.03E-06	16732
genus.Intestinimonas.id.2062	rs1381516	T	A	0.081	0.017	1.03E-06	12090
genus.Sellimonas.id.14369	rs2016057	C	A	-0.126	0.026	1.03E-06	3154
genus.Tyzzereella3.id.11335	rs17706248	C	T	-0.138	0.027	1.02E-06	5396
genus.Akkermansia.id.4037	rs113634144	G	T	0.074	0.015	1.02E-06	11859
genus.Intestinimonas.id.2062	rs11690270	G	C	0.081	0.017	1.02E-06	12090
genus.Ruminiclostridium9.id.11357	rs7641036	T	C	-0.061	0.012	1.02E-06	16725
genus.ChristensenellaceaeR.7group.id.11283	rs10423276	C	T	0.057	0.012	1.02E-06	16325
genus.Marvinbryantia.id.2005	rs61884471	A	G	0.124	0.025	1.01E-06	11559
genus.LachnospiraceaeUCG008.id.11328	rs2186956	C	G	0.088	0.018	1.01E-06	7016
genus.Bifidobacterium.id.436	rs309152	T	C	0.078	0.016	1.01E-06	14778
genus.Oscillibacter.id.2063	rs11627628	C	T	0.144	0.029	1.01E-06	8486
genus.Copro bacter.id.949	rs305411	G	A	0.129	0.026	1.01E-06	6777
genus.RuminococcaceaeUCG003.id.11361	rs2452170	G	A	0.058	0.012	1.01E-06	14392
genus..Ruminococcusgnavusgroup.id.14376	rs62349875	T	A	-0.113	0.023	1.01E-06	6400
genus.Bifidobacterium.id.436	rs669759	T	C	-0.059	0.012	1.00E-06	14023
genus.Butyrivibrio.id.1993	rs6568680	T	C	-0.118	0.024	1.00E-06	3481
genus.Blautia.id.1992	rs67794373	T	C	0.060	0.012	1.00E-06	18158
genus..Ruminococcustorquesgroup.id.14377	rs178289	G	C	0.057	0.012	1.00E-06	17353
genus.Bifidobacterium.id.436	rs1446523	G	A	0.058	0.012	9.99E-07	14778
genus.LachnospiraceaeUCG001.id.11321	rs9824897	C	A	0.093	0.019	9.99E-07	9918
genus.Lachnoclostridium.id.11308	rs6112307	C	T	-0.055	0.011	9.97E-07	17841

genus.Ruminiclostridium9.id.11357	rs10936132	C	T	-0.060	0.012	9.96E-07	16725
genus.LachnospiraceaeUCG010.id.11330	rs9981767	C	A	0.066	0.013	9.96E-07	12816
genus.Streptococcus.id.1853	rs7970304	T	G	-0.090	0.018	9.95E-07	15633
genus.Intestinimonas.id.2062	rs28373400	C	T	0.081	0.017	9.94E-07	12090
genus.Ruminiclostridium9.id.11357	rs11719153	G	A	-0.061	0.012	9.93E-07	16725
genus.Oscillibacter.id.2063	rs9393920	G	A	-0.074	0.015	9.92E-07	8930
genus.Peptococcus.id.2037	rs1348139	T	C	-0.112	0.023	9.92E-07	5526
genus.Fusicatenibacter.id.11305	rs4567235	C	T	-0.061	0.013	9.91E-07	17384
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs56815850	A	G	-0.079	0.016	9.91E-07	17270
genus.Streptococcus.id.1853	rs57497665	C	T	-0.093	0.019	9.91E-07	15743
genus.Bifidobacterium.id.436	rs2053727	C	T	0.058	0.012	9.90E-07	14778
genus.LachnospiraceaeUCG008.id.11328	rs9814084	A	G	-0.115	0.023	9.90E-07	6577
genus.Peptococcus.id.2037	rs75330476	C	A	0.158	0.032	9.89E-07	5482
genus.Lachnoclostridium.id.11308	rs4813351	C	T	-0.054	0.011	9.84E-07	17831
genus.Erysipelatoclostridium.id.11381	rs9799756	T	G	-0.080	0.016	9.80E-07	9779
genus.Adlercreutzia.id.812	rs7680684	T	C	-0.083	0.017	9.77E-07	8243
genus.Butyricimonas.id.945	rs2823125	A	G	-0.136	0.027	9.77E-07	9949
genus.Streptococcus.id.1853	rs11110265	G	A	-0.086	0.018	9.75E-07	15743
genus.Intestinimonas.id.2062	rs1350893	G	A	0.081	0.017	9.73E-07	12090
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs4463323	G	A	-0.077	0.016	9.72E-07	17377
genus.Lactobacillus.id.1837	rs921925	C	A	0.099	0.020	9.72E-07	6952
genus..Eubacteriumruminantiumgroup.id.11340	rs139747	A	G	-0.084	0.017	9.70E-07	7314
genus.Roseburia.id.2012	rs2160994	C	T	0.055	0.011	9.70E-07	17444
genus.RuminococcaceaeUCG004.id.11362	rs10874693	G	A	0.125	0.025	9.67E-07	9116
genus.Lachnoclostridium.id.11308	rs6081568	C	G	-0.055	0.011	9.67E-07	17841
genus.Intestinimonas.id.2062	rs59872056	G	A	0.081	0.017	9.66E-07	12090
genus.Alloprevotella.id.961	rs12675596	T	G	0.146	0.029	9.64E-07	3008
genus.DefluviitaleaceaeUCG011.id.11287	rs4677103	G	A	0.098	0.020	9.60E-07	7983
genus.Streptococcus.id.1853	rs12370772	G	C	-0.101	0.020	9.54E-07	15743
genus..Eubacteriumventriosumgroup.id.11341	rs73615400	C	T	-0.096	0.019	9.54E-07	15146
genus.Oxalobacter.id.2978	rs4605578	A	G	0.121	0.025	9.53E-07	4655

genus.Ruminiclostridium9.id.11357	rs56123505	C	A	-0.061	0.012	9.53E-07	16725
genus.Intestinimonas.id.2062	rs13398390	C	G	0.081	0.017	9.53E-07	12090
genus.Ruminiclostridium9.id.11357	rs1918000	A	G	-0.061	0.012	9.53E-07	16725
genus.Ruminiclostridium9.id.11357	rs73170326	G	A	-0.061	0.012	9.52E-07	16725
genus.Peptococcus.id.2037	rs1530246	G	C	-0.113	0.023	9.49E-07	5503
genus.Peptococcus.id.2037	rs430940	G	T	-0.113	0.023	9.48E-07	5526
genus.Bifidobacterium.id.436	rs78793148	C	A	0.099	0.020	9.44E-07	14666
genus.Peptococcus.id.2037	rs2889085	T	C	-0.112	0.023	9.40E-07	5526
genus.Coprococcus2.id.11302	rs59936925	T	A	0.117	0.023	9.38E-07	10931
genus.Bifidobacterium.id.436	rs2197579	C	T	0.058	0.012	9.35E-07	14778
genus.Oxalobacter.id.2978	rs4364195	A	G	0.121	0.025	9.31E-07	4655
genus..Eubacteriumruminantiumgroup.id.11340	rs139741	G	A	-0.084	0.017	9.30E-07	7314
genus.Ruminiclostridium9.id.11357	rs12634807	A	G	-0.061	0.012	9.30E-07	16725
genus.Ruminiclostridium9.id.11357	rs4680432	C	T	-0.061	0.012	9.29E-07	16725
genus.Ruminiclostridium9.id.11357	rs113849803	C	T	-0.061	0.012	9.29E-07	16725
genus..Eubacteriumfissicatenaagroup.id.14373	rs3771394	C	T	0.130	0.027	9.29E-07	3791
genus.RuminococcaceaeUCG005.id.11363	rs60081663	G	C	0.158	0.032	9.28E-07	9342
genus.Ruminiclostridium9.id.11357	rs73170373	T	A	-0.061	0.012	9.26E-07	16725
genus.Butyrvibrio.id.1993	rs12211763	G	A	-0.118	0.024	9.24E-07	3481
genus.RuminococcaceaeUCG002.id.11360	rs67746927	G	C	-0.054	0.011	9.17E-07	16651
genus.Oscillibacter.id.2063	rs234108	G	A	0.075	0.015	9.16E-07	8694
genus.Prevotella7.id.11182	rs59826552	T	G	0.152	0.032	9.13E-07	3489
genus..Eubacteriumfissicatenaagroup.id.14373	rs3771392	A	G	0.130	0.027	9.11E-07	3793
genus.Peptococcus.id.2037	rs317067	T	A	-0.112	0.022	9.07E-07	5526
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs73684129	G	A	-0.079	0.016	9.07E-07	17272
genus.RuminococcaceaeUCG004.id.11362	rs1375521	G	A	0.078	0.016	9.06E-07	9500
genus..Eubacteriumnodatumgroup.id.11297	rs77910827	T	C	0.202	0.041	9.05E-07	3271
genus..Ruminococcustorquesgroup.id.14377	rs1231281	G	A	-0.053	0.011	9.05E-07	17679
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs55966090	C	T	-0.078	0.016	9.04E-07	17380
genus.Prevotella7.id.11182	rs55643286	A	G	0.154	0.032	8.96E-07	3487
genus.RuminococcaceaeUCG004.id.11362	rs731508	A	C	0.078	0.016	8.96E-07	9501

genus.Intestinimonas.id.2062	rs1870850	A	G	0.082	0.017	8.96E-07	12089
genus.Peptococcus.id.2037	rs6531352	A	G	-0.113	0.023	8.94E-07	5526
genus.LachnospiraceaeUCG008.id.11328	rs10766567	C	T	-0.097	0.019	8.94E-07	7014
genus..Ruminococcustorquesgroup.id.14377	rs973579	A	G	-0.053	0.011	8.91E-07	17683
genus.RuminococcaceaeUCG004.id.11362	rs11164699	A	G	0.127	0.026	8.91E-07	8938
genus.Bacteroides.id.918	rs750423	G	A	0.052	0.011	8.89E-07	18302
genus.Butyricimonas.id.945	rs7083431	C	A	0.070	0.014	8.85E-07	10737
genus.Odoribacter.id.952	rs116516801	T	C	-0.132	0.027	8.83E-07	11935
genus.Oxalobacter.id.2978	rs36057338	T	G	0.208	0.042	8.80E-07	4244
genus.Collinsella.id.815	rs9541268	A	C	0.096	0.020	8.79E-07	12914
genus.RuminococcaceaeUCG004.id.11362	rs6445659	A	G	0.079	0.016	8.76E-07	9502
genus.Peptococcus.id.2037	rs1978931	T	A	-0.112	0.023	8.76E-07	5526
genus.ChristensenellaceaeR.7group.id.11283	rs8110909	A	G	0.058	0.012	8.75E-07	16325
genus.Erysipelatoclostridium.id.11381	rs349442	C	T	0.087	0.018	8.75E-07	9488
genus.Intestinimonas.id.2062	rs716605	A	G	0.082	0.017	8.75E-07	12090
genus.Bifidobacterium.id.436	rs6430555	A	C	0.058	0.012	8.75E-07	14778
genus.Bifidobacterium.id.436	rs3820790	A	T	0.095	0.019	8.74E-07	14775
genus.Butyrivibrio.id.1993	rs7764591	C	G	-0.119	0.024	8.73E-07	3481
genus.Butyrivibrio.id.1993	rs7750792	C	T	-0.119	0.024	8.73E-07	3481
genus.Ruminiclostridium9.id.11357	rs11712563	G	A	-0.061	0.012	8.73E-07	16725
genus.RuminococcaceaeUCG004.id.11362	rs9811826	G	T	0.078	0.016	8.73E-07	9501
genus.Intestinimonas.id.2062	rs4784055	C	T	-0.175	0.039	8.72E-07	3193
genus.Fusicatenibacter.id.11305	rs4425931	G	T	-0.061	0.013	8.72E-07	17384
genus.RuminococcaceaeNK4A214group.id.11358	rs11704699	T	G	-0.090	0.018	8.71E-07	15206
genus.Ruminiclostridium9.id.11357	rs10936131	C	T	-0.061	0.012	8.71E-07	16725
genus.Bifidobacterium.id.436	rs112407062	C	T	0.081	0.016	8.70E-07	14778
genus.RuminococcaceaeUCG004.id.11362	rs9880729	C	A	0.078	0.016	8.68E-07	9501
genus.Butyricimonas.id.945	rs138323763	A	G	-0.136	0.027	8.68E-07	9949
genus.Turicibacter.id.2162	rs12603364	C	T	0.111	0.023	8.67E-07	8923
genus.LachnospiraceaeUCG004.id.11324	rs12747809	A	G	-0.062	0.013	8.65E-07	14464
genus.Bilophila.id.3170	rs116261629	C	G	0.128	0.026	8.62E-07	11276

genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs73684130	G	A	-0.080	0.016	8.61E-07	17272
genus.Intestinimonas.id.2062	rs1350892	G	C	0.082	0.017	8.60E-07	12090
genus.Butyricimonas.id.945	rs78496505	C	T	-0.087	0.017	8.60E-07	10634
genus..Eubacteriumruminantiumgroup.id.11340	rs139749	T	C	-0.085	0.017	8.59E-07	7314
genus.Butyricimonas.id.945	rs2642760	C	G	0.071	0.015	8.58E-07	10634
genus.Peptococcus.id.2037	rs403094	A	G	-0.112	0.022	8.58E-07	5526
genus.Intestinimonas.id.2062	rs1037944	G	A	0.082	0.017	8.57E-07	12089
genus.Intestinimonas.id.2062	rs716604	G	A	0.082	0.017	8.57E-07	12090
genus.RuminococcaceaeUCG004.id.11362	rs9827785	C	T	0.078	0.016	8.56E-07	9501
genus.FamilyXIIIAD3011group.id.11293	rs3828024	A	G	-0.060	0.012	8.55E-07	14201
genus.Victivallis.id.2256	rs7314815	A	G	0.121	0.025	8.54E-07	3263
genus.Barnesiella.id.944	rs2428166	A	G	-0.166	0.034	8.51E-07	8091
genus.RuminococcaceaeUCG004.id.11362	rs4974363	G	C	0.078	0.016	8.51E-07	9501
genus.RuminococcaceaeUCG002.id.11360	rs10927423	A	C	-0.071	0.015	8.50E-07	17096
genus..Ruminococcusgavreuiiigroup.id.11342	rs9870933	G	A	0.062	0.013	8.49E-07	13382
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs73304492	C	T	-0.078	0.016	8.48E-07	17380
genus.Ruminiclostridium9.id.11357	rs12636733	C	T	-0.061	0.012	8.47E-07	16725
genus..Ruminococcusgnavusgroup.id.14376	rs13180307	C	T	-0.114	0.023	8.46E-07	6327
genus.Peptococcus.id.2037	rs7690572	C	T	-0.113	0.023	8.44E-07	5526
genus.Bifidobacterium.id.436	rs72847650	C	A	-0.060	0.012	8.44E-07	13911
genus.Ruminiclostridium9.id.11357	rs11717923	G	A	-0.061	0.012	8.43E-07	16725
genus..Ruminococcusgnavusgroup.id.14376	rs17631095	C	T	-0.114	0.023	8.40E-07	6327
genus.Phascolarctobacterium.id.2168	rs73094691	C	G	0.119	0.024	8.40E-07	10031
genus.LachnospiraceaeUCG008.id.11328	rs9877253	T	G	-0.109	0.022	8.38E-07	7017
genus..Ruminococcusstorquesgroup.id.14377	rs838147	G	A	-0.053	0.011	8.36E-07	17680
genus.Bifidobacterium.id.436	rs4954196	A	G	0.058	0.012	8.34E-07	14778
genus.Ruminiclostridium9.id.11357	rs9681202	A	G	-0.057	0.012	8.34E-07	16725
genus.Ruminiclostridium9.id.11357	rs58925169	A	G	-0.061	0.012	8.32E-07	16725
genus.Peptococcus.id.2037	rs1348138	T	C	-0.113	0.023	8.27E-07	5526
genus.Ruminiclostridium9.id.11357	rs34434866	C	T	-0.061	0.012	8.26E-07	16708
genus.Bifidobacterium.id.436	rs6708957	C	T	0.074	0.015	8.24E-07	14778

genus.Bifidobacterium.id.436	rs4954272	A	G	0.087	0.018	8.24E-07	14778
genus.Ruminococcusnavusgroup.id.14376	rs71599205	T	C	-0.114	0.023	8.23E-07	6328
genus.Victivallis.id.2256	rs4764863	A	G	0.122	0.025	8.22E-07	3266
genus.LachnospiraceaeUCG008.id.11328	rs6765500	T	G	-0.114	0.023	8.22E-07	6577
genus.LachnospiraceaeUCG001.id.11321	rs2091024	T	C	0.093	0.019	8.21E-07	9917
genus.Ruminiclostridium9.id.11357	rs12053861	G	A	-0.061	0.012	8.21E-07	16725
genus.Bifidobacterium.id.436	rs621341	C	T	-0.060	0.012	8.20E-07	14023
genus.Ruminiclostridium9.id.11357	rs12054114	T	C	-0.061	0.012	8.19E-07	16725
genus.Tyzzereella3.id.11335	rs12979724	A	G	-0.100	0.020	8.15E-07	5019
genus.RuminococcaceaeNK4A214group.id.11358	rs136761	A	G	-0.059	0.012	8.15E-07	14822
genus.Peptococcus.id.2037	rs317066	A	G	-0.112	0.022	8.14E-07	5526
genus.Lachnoclostridium.id.11308	rs3790176	G	A	-0.055	0.011	8.11E-07	17832
genus.Flavonifractor.id.2059	rs10493606	A	G	-0.068	0.014	8.08E-07	10805
genus.Peptococcus.id.2037	rs10020396	C	T	-0.113	0.023	8.07E-07	5526
genus.Bifidobacterium.id.436	rs12476127	A	G	0.080	0.016	8.06E-07	14778
genus.Bifidobacterium.id.436	rs479980	A	C	-0.060	0.012	8.05E-07	14019
genus.LachnospiraceaeNK4A136group.id.11319	rs12362320	C	G	0.057	0.012	8.04E-07	16764
genus.Streptococcus.id.1853	rs79222628	G	A	-0.092	0.019	8.01E-07	15634
genus.Eubacteriumventriosumgroup.id.11341	rs57199565	C	T	0.078	0.016	7.97E-07	14913
genus.Ruminiclostridium9.id.11357	rs4402974	A	C	-0.062	0.012	7.97E-07	16725
genus.Ruminiclostridium9.id.11357	rs4516653	T	C	-0.062	0.012	7.97E-07	16725
genus.Ruminococcustorquesgroup.id.14377	rs439523	T	C	-0.053	0.011	7.96E-07	17791
genus.Paraprevotella.id.962	rs9547271	T	C	-0.106	0.022	7.92E-07	7177
genus.Butyrivibrio.id.1993	rs72723662	T	C	0.224	0.045	7.86E-07	3073
genus.RuminococcaceaeUCG003.id.11361	rs6759615	G	A	0.103	0.020	7.86E-07	14410
genus.Tyzzereella3.id.11335	rs4147935	C	T	0.100	0.020	7.85E-07	5318
genus.Bifidobacterium.id.436	rs4954394	A	G	0.066	0.014	7.84E-07	14778
genus.LachnospiraceaeUCG008.id.11328	rs10734277	G	A	-0.096	0.019	7.84E-07	7016
genus.Ruminococcus1.id.11373	rs4148900	A	C	-0.058	0.012	7.83E-07	16607
genus.RuminococcaceaeUCG003.id.11361	rs646327	A	G	0.059	0.012	7.83E-07	14406
genus.Coproccoccus3.id.11303	rs178271	C	T	0.145	0.029	7.81E-07	10794

genus.Ruminiclostridium9.id.11357	rs11716327	G	T	-0.062	0.012	7.80E-07	16725
genus.Lachnoclostridium.id.11308	rs6046001	C	T	-0.054	0.011	7.79E-07	17842
genus.Fusicatenibacter.id.11305	rs704418	C	T	0.074	0.015	7.77E-07	16626
genus.Bifidobacterium.id.436	rs12471781	G	A	0.083	0.016	7.76E-07	14666
genus.Ruminiclostridium9.id.11357	rs73170384	A	C	-0.062	0.012	7.75E-07	16725
genus.Ruminiclostridium9.id.11357	rs11707386	G	A	-0.062	0.012	7.75E-07	16725
genus.Lachnoclostridium.id.11308	rs6075498	A	C	-0.055	0.011	7.73E-07	17841
genus.Bifidobacterium.id.436	rs1374292	G	A	0.058	0.012	7.72E-07	14778
genus.Ruminiclostridium9.id.11357	rs6807468	T	C	-0.061	0.012	7.71E-07	16725
genus.Butyrivibrio.id.1993	rs7752361	G	A	-0.119	0.024	7.69E-07	3481
genus.Bifidobacterium.id.436	rs62168872	C	T	0.058	0.012	7.69E-07	14778
genus.LachnospiraceaeUCG008.id.11328	rs10741777	C	T	-0.097	0.019	7.69E-07	7014
genus.LachnospiraceaeUCG008.id.11328	rs67078837	C	T	-0.085	0.017	7.68E-07	7016
genus.Butyrivicoccus.id.2055	rs56221232	C	T	0.083	0.017	7.62E-07	17133
genus..Ruminococcusgnavusgroup.id.14376	rs62349877	C	T	-0.114	0.023	7.62E-07	6328
genus.Sellimonas.id.14369	rs13417181	C	T	0.167	0.034	7.62E-07	3047
genus.Erysipelatoclostridium.id.11381	rs4697572	G	A	-0.081	0.016	7.59E-07	9779
genus.Ruminiclostridium9.id.11357	rs73170337	C	T	-0.061	0.012	7.53E-07	16725
genus.Ruminiclostridium9.id.11357	rs73170339	G	A	-0.061	0.012	7.53E-07	16725
genus.Ruminiclostridium9.id.11357	rs58195752	T	C	-0.061	0.012	7.53E-07	16725
genus.RuminococcaceaeUCG004.id.11362	rs12128315	G	A	0.127	0.026	7.51E-07	8938
genus.Ruminiclostridium9.id.11357	rs73170346	G	A	-0.061	0.012	7.48E-07	16725
genus.Dorea.id.1997	rs62503162	G	A	-0.097	0.019	7.47E-07	16210
genus..Eubacteriumfissicatenagroup.id.14373	rs4852730	C	T	0.131	0.027	7.46E-07	3791
genus.RuminococcaceaeUCG004.id.11362	rs10782928	A	G	0.127	0.025	7.42E-07	9020
genus.Butyrivicimonas.id.945	rs62390301	C	T	-0.087	0.017	7.42E-07	10634
genus..Ruminococcusgnavusgroup.id.14376	rs2909242	A	C	-0.091	0.018	7.41E-07	6401
genus.Oxalobacter.id.2978	rs4243423	A	G	0.122	0.025	7.41E-07	4655
genus.Ruminiclostridium9.id.11357	rs2139696	A	G	-0.061	0.012	7.40E-07	16725
genus.Bifidobacterium.id.436	rs766270	G	C	0.059	0.012	7.40E-07	14778
genus.Paraprevotella.id.962	rs9547277	C	T	-0.106	0.022	7.38E-07	7179

genus.Prevootella7.id.11182	rs73915877	T	G	0.155	0.032	7.38E-07	3487
genus.Oxalobacter.id.2978	rs10780691	T	C	0.103	0.021	7.38E-07	4656
genus..Eubacteriumfissicatengroup.id.14373	rs3771393	T	C	0.131	0.027	7.38E-07	3792
genus.Ruminiclostridium9.id.11357	rs76757621	T	C	-0.061	0.012	7.38E-07	16725
genus.Streptococcus.id.1853	rs74659220	A	C	-0.091	0.018	7.37E-07	15633
genus.RuminococcaceaeUCG004.id.11362	rs1406124	C	T	0.127	0.025	7.36E-07	9020
genus.Eggerthella.id.819	rs2240838	G	A	0.098	0.020	7.36E-07	5147
genus.Bifidobacterium.id.436	rs12469941	C	T	0.058	0.012	7.33E-07	14778
genus.Bifidobacterium.id.436	rs2166480	G	A	0.059	0.012	7.28E-07	14778
genus.Marvinbryantia.id.2005	rs2842896	T	C	-0.065	0.013	7.25E-07	11709
genus.Ruminiclostridium9.id.11357	rs73170364	C	A	-0.061	0.012	7.25E-07	16725
genus..Eubacteriumventriosumgroup.id.11341	rs11617697	G	A	-0.143	0.029	7.22E-07	11497
genus.Fusicatenibacter.id.11305	rs4378146	C	A	-0.062	0.013	7.20E-07	17384
genus.Holdemanella.id.11393	rs607782	C	T	-0.085	0.017	7.19E-07	7456
genus.Bifidobacterium.id.436	rs6430550	C	T	0.058	0.012	7.13E-07	14778
genus.RuminococcaceaeUCG004.id.11362	rs1528208	C	G	0.127	0.025	7.12E-07	9020
genus.Bifidobacterium.id.436	rs4954197	G	A	0.059	0.012	7.07E-07	14778
genus.Bifidobacterium.id.436	rs12469551	G	T	0.075	0.015	7.06E-07	14778
genus.Lachnoclostridium.id.11308	rs6081560	A	G	-0.054	0.011	7.04E-07	17842
genus.Holdemanella.id.11393	rs2763994	G	A	0.093	0.018	7.02E-07	7706
genus.Ruminiclostridium9.id.11357	rs7640075	T	C	-0.061	0.012	7.01E-07	16725
genus.ChristensenellaceaeR.7group.id.11283	rs999354	A	T	0.058	0.012	7.01E-07	16324
genus.RuminococcaceaeUCG004.id.11362	rs71655813	T	C	0.128	0.026	7.00E-07	8938
genus.Intestinimonas.id.2062	rs11258178	G	A	0.066	0.013	6.98E-07	11766
genus.Ruminiclostridium9.id.11357	rs12639261	G	T	-0.061	0.012	6.97E-07	16725
genus.Oxalobacter.id.2978	rs13060354	A	G	0.123	0.025	6.96E-07	4655
genus.Ruminiclostridium9.id.11357	rs11716969	A	G	-0.062	0.012	6.95E-07	16725
genus.Bifidobacterium.id.436	rs7595712	C	T	0.075	0.015	6.95E-07	14778
genus.Lachnoclostridium.id.11308	rs6035293	A	G	-0.054	0.011	6.93E-07	17842
genus..Ruminococcusgnavusgroup.id.14376	rs10039058	C	A	-0.114	0.023	6.93E-07	6400
genus.Paraprevotella.id.962	rs9602779	C	A	-0.107	0.022	6.93E-07	7177

genus..Eubacteriumruminantiumgroup.id.11340	rs6595327	C	A	0.096	0.020	6.92E-07	7314
genus.Ruminiclostridium9.id.11357	rs12639310	G	A	-0.061	0.012	6.91E-07	16725
genus.RuminococcaceaeUCG004.id.11362	rs12024454	T	C	0.128	0.026	6.90E-07	8938
genus.FamilyXIIIAD3011group.id.11293	rs72730932	A	C	-0.090	0.018	6.89E-07	13102
genus.Bifidobacterium.id.436	rs6430554	C	T	0.059	0.012	6.89E-07	14778
genus.Romboutsia.id.11347	rs11591519	G	A	0.085	0.017	6.85E-07	13523
genus.Bifidobacterium.id.436	rs1469995	G	A	0.075	0.015	6.84E-07	14774
genus.Anaerofilum.id.2053	rs712981	C	A	0.101	0.020	6.83E-07	5051
genus.Bacteroides.id.918	rs66474973	T	G	0.081	0.016	6.81E-07	17405
genus.Oxalobacter.id.2978	rs4894821	G	A	0.123	0.025	6.77E-07	4655
genus.FamilyXIIIAD3011group.id.11293	rs16840310	G	A	-0.061	0.012	6.75E-07	14201
genus.RuminococcaceaeUCG004.id.11362	rs12136508	A	G	0.128	0.026	6.75E-07	9115
genus.Ruminiclostridium9.id.11357	rs7621889	T	C	-0.057	0.012	6.74E-07	16725
genus.Gordonibacter.id.821	rs7220558	T	A	0.117	0.023	6.71E-07	3723
genus.Oxalobacter.id.2978	rs13073573	C	T	0.123	0.025	6.69E-07	4655
genus.Bifidobacterium.id.436	rs16832440	G	A	0.083	0.016	6.68E-07	14778
genus.RikenellaceaeRC9gutgroup.id.11191	rs10120177	C	A	-0.170	0.034	6.66E-07	3318
genus.Bifidobacterium.id.436	rs60453613	G	C	0.075	0.015	6.64E-07	14778
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs56327615	C	G	-0.079	0.016	6.62E-07	17380
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs4001474	T	G	-0.079	0.016	6.62E-07	17379
genus.Peptococcus.id.2037	rs1348141	C	T	-0.111	0.022	6.59E-07	5656
genus.Akkermansia.id.4037	rs11729256	C	T	0.075	0.015	6.58E-07	11860
genus.Odoribacter.id.952	rs77779484	A	G	-0.133	0.027	6.56E-07	11935
genus.Oxalobacter.id.2978	rs4280664	G	A	0.123	0.025	6.54E-07	4655
genus.Victivallis.id.2256	rs4396289	T	C	-0.158	0.032	6.54E-07	3263
genus.Howardella.id.2000	rs901099	G	T	-0.127	0.025	6.53E-07	3647
genus.Bifidobacterium.id.436	rs80274970	C	T	0.104	0.021	6.53E-07	14293
genus.Bifidobacterium.id.436	rs6732236	T	G	0.075	0.015	6.53E-07	14778
genus.Ruminiclostridium9.id.11357	rs55969621	A	T	-0.061	0.012	6.52E-07	16725
genus.Lachnoclostridium.id.11308	rs8121292	G	A	-0.054	0.011	6.52E-07	17838
genus.unknowngenus.id.1000001215	rs12491989	C	G	-0.146	0.029	6.52E-07	5768

genus.Ruminococcus1.id.11373	rs7117576	G	A	0.083	0.017	6.48E-07	16606
genus.Ruminococcus1.id.11373	rs386753175	T	A	-0.055	0.011	6.45E-07	16607
genus.Gordonibacter.id.821	rs41268621	C	G	-0.232	0.047	6.43E-07	3444
genus.Bifidobacterium.id.436	rs60274701	G	A	0.094	0.019	6.43E-07	14778
genus.Bifidobacterium.id.436	rs309123	C	G	0.078	0.016	6.42E-07	14777
genus.Bifidobacterium.id.436	rs62168871	A	G	0.059	0.012	6.42E-07	14561
genus.ErysipelotrichaceaeUCG003.id.11384	rs28568391	G	A	-0.058	0.012	6.42E-07	14544
genus.ErysipelotrichaceaeUCG003.id.11384	rs76502207	C	T	0.145	0.029	6.41E-07	10740
genus.Lachnoclostridium.id.11308	rs6075497	A	T	-0.056	0.011	6.36E-07	17841
genus.Oxalobacter.id.2978	rs35327886	A	G	0.123	0.025	6.36E-07	4655
genus.Sellimonas.id.14369	rs35344361	T	G	0.126	0.025	6.34E-07	3153
genus.Erysipelatoclostridium.id.11381	rs710230	C	T	0.143	0.028	6.33E-07	9016
genus.Ruminiclostridium9.id.11357	rs138824716	A	G	-0.062	0.012	6.33E-07	16725
genus.Parasutterella.id.2892	rs7572229	A	G	0.066	0.013	6.32E-07	11383
genus.Ruminiclostridium9.id.11357	rs17683939	C	T	-0.061	0.012	6.30E-07	16612
genus.Marvinbryantia.id.2005	rs2724813	G	A	-0.084	0.017	6.28E-07	11610
genus.Romboutsia.id.11347	rs11594134	T	C	0.085	0.017	6.27E-07	13568
genus.Oxalobacter.id.2978	rs4243424	C	T	0.123	0.025	6.27E-07	4655
genus.Victivallis.id.2256	rs56349194	G	A	-0.159	0.032	6.26E-07	3266
genus.Bifidobacterium.id.436	rs10176573	C	A	0.059	0.012	6.24E-07	14778
genus.Ruminiclostridium9.id.11357	rs7624303	A	G	-0.062	0.012	6.24E-07	16725
genus.Bifidobacterium.id.436	rs1446525	G	A	0.059	0.012	6.24E-07	14778
genus.Streptococcus.id.1853	rs11110252	G	A	-0.102	0.020	6.22E-07	15743
genus.Prevotella7.id.11182	rs57404562	A	C	0.155	0.032	6.22E-07	3487
genus.Ruminiclostridium9.id.11357	rs73164066	T	C	-0.060	0.012	6.18E-07	16709
genus.RuminococcaceaeUCG004.id.11362	rs2056752	T	G	0.128	0.025	6.18E-07	9020
genus.Ruminiclostridium9.id.11357	rs6800853	G	A	-0.062	0.012	6.18E-07	16725
genus.Oxalobacter.id.2978	rs1317940	A	G	0.123	0.025	6.14E-07	4655
genus.Bifidobacterium.id.436	rs7589297	C	A	0.059	0.012	6.14E-07	14778
genus.Ruminiclostridium9.id.11357	rs4680435	G	A	-0.063	0.012	6.11E-07	16723
genus..Eubacteriumhalliigroup.id.11338	rs10953312	A	C	-0.056	0.011	6.10E-07	16130

genus.RuminococcaceaeUCG004.id.11362	rs12129353	T	A	0.128	0.026	6.10E-07	8938
genus.RuminococcaceaeUCG004.id.11362	rs11164727	G	T	0.128	0.026	6.10E-07	8938
genus.Slackia.id.825	rs8901	T	C	0.093	0.019	6.07E-07	6063
genus..Ruminococcusgnavusgroup.id.14376	rs10071259	A	C	-0.115	0.023	6.06E-07	6401
genus.LachnospiraceaeFCS020group.id.11314	rs12981905	T	C	0.067	0.013	6.05E-07	13312
genus.RuminococcaceaeUCG005.id.11363	rs34781347	A	G	0.189	0.039	6.05E-07	6061
genus.Bifidobacterium.id.436	rs6430551	T	C	0.059	0.012	6.04E-07	14778
genus.Ruminiclostridium9.id.11357	rs17627933	A	G	-0.062	0.012	6.03E-07	16725
genus.Oxalobacter.id.2978	rs34124854	C	T	0.123	0.025	6.03E-07	4655
genus.Lachnospira.id.2004	rs13157098	G	A	-0.077	0.016	5.99E-07	15947
genus.Romboutsia.id.11347	rs7075681	G	C	0.079	0.016	5.99E-07	13568
genus.Bifidobacterium.id.436	rs6706537	T	C	0.059	0.012	5.98E-07	14778
genus.Ruminiclostridium9.id.11357	rs73170352	A	C	-0.062	0.012	5.97E-07	16725
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs17169426	A	G	-0.081	0.016	5.94E-07	17272
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs58877550	G	T	-0.092	0.019	5.90E-07	17272
genus.Ruminiclostridium9.id.11357	rs12637649	A	G	-0.062	0.012	5.90E-07	16725
genus.RuminococcaceaeUCG004.id.11362	rs11164723	G	A	0.129	0.026	5.88E-07	8938
genus.RuminococcaceaeUCG004.id.11362	rs11164705	A	G	0.129	0.026	5.88E-07	8938
genus.Tyzzereella3.id.11335	rs17706273	C	T	-0.140	0.027	5.88E-07	5395
genus.Lachnoclostridium.id.11308	rs2143855	G	A	-0.054	0.011	5.88E-07	17838
genus.Peptococcus.id.2037	rs6854595	C	T	-0.114	0.023	5.87E-07	5526
genus.Lachnoclostridium.id.11308	rs6081572	G	A	-0.056	0.011	5.86E-07	17841
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs10950610	C	G	-0.081	0.016	5.84E-07	17272
genus.Peptococcus.id.2037	rs9684110	T	C	-0.110	0.022	5.84E-07	5657
genus.Ruminiclostridium9.id.11357	rs4680428	C	T	-0.061	0.012	5.83E-07	16725
genus.Bifidobacterium.id.436	rs10928522	C	A	0.059	0.012	5.82E-07	14778
genus.LachnospiraceaeUCG008.id.11328	rs13087616	G	A	-0.116	0.023	5.82E-07	6577
genus.FamilyXIIIAD3011group.id.11293	rs62200412	T	C	-0.080	0.016	5.80E-07	13661
genus.LachnospiraceaeUCG008.id.11328	rs10899031	C	T	0.091	0.018	5.80E-07	7017
genus.Bifidobacterium.id.436	rs12992815	C	G	0.094	0.019	5.79E-07	14778
genus.Ruminiclostridium9.id.11357	rs73168723	G	C	-0.062	0.012	5.78E-07	16725

genus.Peptococcus.id.2037	rs7660143	A	G	-0.114	0.023	5.77E-07	5526
genus.Oxalobacter.id.2978	rs2132164	G	C	0.123	0.025	5.77E-07	4655
genus.Bifidobacterium.id.436	rs309133	A	C	0.079	0.016	5.74E-07	14776
genus.Anaerotruncus.id.2054	rs7984882	C	T	0.077	0.016	5.74E-07	16552
genus.Parabacteroides.id.954	rs60884758	T	C	-0.070	0.014	5.71E-07	17293
genus.Ruminiclostridium9.id.11357	rs7652970	G	A	-0.062	0.012	5.70E-07	16725
genus.Oxalobacter.id.2978	rs4877289	G	A	0.104	0.021	5.69E-07	4656
genus.Bifidobacterium.id.436	rs4954193	A	G	0.059	0.012	5.68E-07	14778
genus.Butyricimonas.id.945	rs8127278	A	G	-0.138	0.027	5.67E-07	9949
genus..Ruminococcusgavreuiigroup.id.11342	rs2047241	A	G	-0.066	0.013	5.64E-07	13368
genus..Eubacteriumeligensgroup.id.14372	rs8063637	C	G	0.063	0.012	5.63E-07	14327
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12666346	T	C	-0.079	0.016	5.62E-07	17272
genus.Flavonifractor.id.2059	rs12030302	G	A	-0.069	0.014	5.61E-07	10805
genus.Bifidobacterium.id.436	rs1348790	C	G	0.059	0.012	5.57E-07	14778
genus.Bacteroides.id.918	rs6810046	A	G	0.053	0.011	5.56E-07	18302
genus.Streptococcus.id.1853	rs10860564	T	C	-0.102	0.020	5.55E-07	15743
genus.Bifidobacterium.id.436	rs1469996	A	G	0.076	0.015	5.53E-07	14666
genus.Dialister.id.2183	rs11166701	A	G	-0.066	0.013	5.51E-07	11720
genus.Ruminiclostridium9.id.11357	rs12053869	A	C	-0.062	0.012	5.50E-07	16725
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs4615457	A	G	-0.079	0.016	5.48E-07	17380
genus.Oxalobacter.id.2978	rs4622921	A	G	0.124	0.025	5.48E-07	4655
genus.Ruminiclostridium9.id.11357	rs145049570	A	G	-0.062	0.012	5.43E-07	16611
genus..Eubacteriumrectalegroup.id.14374	rs35398954	G	A	-0.090	0.017	5.40E-07	16621
genus.Peptococcus.id.2037	rs6531358	T	C	-0.115	0.023	5.40E-07	5526
genus.Ruminiclostridium9.id.11357	rs11719124	G	A	-0.063	0.012	5.40E-07	16725
genus.Parasutterella.id.2892	rs2387977	C	T	-0.068	0.013	5.38E-07	11345
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12666868	T	C	-0.080	0.016	5.37E-07	17380
genus.Anaerostipes.id.1991	rs7193624	T	C	0.075	0.015	5.35E-07	16926
genus.RuminococcaceaeUCG004.id.11362	rs11164703	A	T	0.129	0.026	5.33E-07	8938
genus.Odoribacter.id.952	rs9712594	A	C	-0.097	0.020	5.31E-07	14135
genus..Eubacteriumnodatumgroup.id.11297	rs34273878	C	T	-0.175	0.034	5.30E-07	3295

genus.RuminococcaceaeUCG004.id.11362	rs12030718	T	C	0.129	0.026	5.29E-07	8938
genus.Streptococcus.id.1853	rs11110085	C	A	-0.102	0.020	5.29E-07	15743
genus..Ruminococcustorquesgroup.id.14377	rs479486	G	A	-0.053	0.011	5.29E-07	17793
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs12531973	A	G	-0.080	0.016	5.27E-07	17380
genus.RuminococcaceaeUCG004.id.11362	rs12129963	T	A	0.128	0.025	5.24E-07	9116
genus.Enterorhabdus.id.820	rs7923280	T	A	0.086	0.017	5.24E-07	7524
genus.Lachnoclostridium.id.11308	rs2876535	G	A	-0.056	0.011	5.23E-07	17841
genus.Peptococcus.id.2037	rs7685819	C	A	-0.115	0.023	5.21E-07	5526
genus.Peptococcus.id.2037	rs7690774	C	T	-0.115	0.023	5.21E-07	5526
genus..Ruminococcusgnavusgroup.id.14376	rs12659196	T	C	-0.116	0.023	5.21E-07	6326
genus.RuminococcaceaeUCG004.id.11362	rs12143297	C	A	0.129	0.026	5.21E-07	8938
genus.Peptococcus.id.2037	rs6531353	G	C	-0.115	0.023	5.21E-07	5526
genus.Holdemania.id.2157	rs6133067	C	T	0.091	0.018	5.17E-07	8863
genus.Streptococcus.id.1853	rs11110086	G	A	-0.102	0.020	5.15E-07	15743
genus.Intestinimonas.id.2062	rs12226153	G	A	-0.151	0.031	5.12E-07	9023
genus.RuminococcaceaeUCG004.id.11362	rs10782929	C	A	0.129	0.025	5.12E-07	9020
genus.Bifidobacterium.id.436	rs6733547	G	T	0.083	0.017	5.10E-07	14778
genus.Ruminiclostridium9.id.11357	rs12053865	A	T	-0.062	0.012	5.07E-07	16725
genus.Ruminiclostridium9.id.11357	rs6441193	A	G	-0.062	0.012	5.03E-07	16725
genus.RuminococcaceaeUCG004.id.11362	rs35091045	T	C	0.129	0.026	5.03E-07	8938
genus.Roseburia.id.2012	rs2034589	C	G	0.063	0.012	5.01E-07	17846
genus.Butyrlicimonas.id.945	rs17002267	C	G	-0.141	0.027	5.01E-07	9947
genus.Ruminiclostridium9.id.11357	rs4680413	A	G	-0.062	0.012	5.00E-07	16725
genus..Ruminococcusgavreuiiigroup.id.11342	rs11007308	T	C	-0.067	0.014	4.98E-07	13382
genus.Bifidobacterium.id.436	rs2322251	C	T	0.060	0.012	4.94E-07	14778
genus.Peptococcus.id.2037	rs12649442	A	G	-0.114	0.022	4.93E-07	5526
genus.Streptococcus.id.1853	rs11110098	G	A	-0.099	0.019	4.91E-07	15739
genus.Peptococcus.id.2037	rs1899281	T	G	-0.114	0.022	4.90E-07	5526
genus.Lachnoclostridium.id.11308	rs6035284	A	G	-0.055	0.011	4.90E-07	17842
genus..Ruminococcustorquesgroup.id.14377	rs12979278	C	T	-0.054	0.011	4.88E-07	17667
genus.Romboutsia.id.11347	rs61844360	G	A	0.080	0.016	4.86E-07	13563

genus.Peptococcus.id.2037	rs6851451	C	T	-0.115	0.023	4.86E-07	5526
genus.Bifidobacterium.id.436	rs60963894	T	G	0.076	0.015	4.86E-07	14778
genus.Ruminiclostridium9.id.11357	rs60962704	C	T	-0.062	0.012	4.84E-07	16721
genus.RuminococcaceaeUCG002.id.11360	rs55793120	C	T	0.137	0.027	4.81E-07	11669
genus.Peptococcus.id.2037	rs6531354	A	G	-0.115	0.023	4.81E-07	5526
genus.Alistipes.id.968	rs9712594	A	C	-0.090	0.018	4.78E-07	16978
genus.Bifidobacterium.id.436	rs6716987	C	A	0.064	0.013	4.77E-07	14778
genus.Romboutsia.id.11347	rs7913601	C	T	0.079	0.016	4.76E-07	13568
genus.Bifidobacterium.id.436	rs1446524	A	G	0.059	0.012	4.75E-07	14778
genus.LachnospiraceaeUCG008.id.11328	rs7119296	G	A	0.092	0.018	4.75E-07	7017
genus.Ruminiclostridium9.id.11357	rs12496934	G	A	-0.063	0.012	4.75E-07	16725
genus.Ruminiclostridium9.id.11357	rs73170310	T	C	-0.062	0.012	4.73E-07	16725
genus.LachnospiraceaeUCG010.id.11330	rs11192447	G	A	0.127	0.024	4.69E-07	12695
genus.Streptococcus.id.1853	rs74476543	G	A	-0.103	0.020	4.68E-07	15743
genus.Peptococcus.id.2037	rs6814618	T	C	-0.115	0.022	4.68E-07	5526
genus.Eubacteriumruminantiumgroup.id.11340	rs2116427	G	A	0.091	0.018	4.67E-07	7739
genus.Ruminococcustorquesgroup.id.14377	rs12978750	A	G	-0.054	0.011	4.66E-07	17667
genus.Peptococcus.id.2037	rs74429934	A	G	0.164	0.032	4.66E-07	5483
genus.Barnesiella.id.944	rs2276875	G	A	-0.070	0.014	4.65E-07	13893
genus.Bifidobacterium.id.436	rs10496737	A	G	0.076	0.015	4.65E-07	14778
genus.Bifidobacterium.id.436	rs1865452	C	T	0.076	0.015	4.63E-07	14778
genus.RuminococcaceaeUCG014.id.11371	rs115777838	C	T	-0.188	0.039	4.62E-07	5674
genus.Oxalobacter.id.2978	rs7428410	C	T	0.125	0.025	4.62E-07	4655
genus.Ruminiclostridium9.id.11357	rs6767494	G	A	-0.062	0.012	4.61E-07	16724
genus.Lachnoclostridium.id.11308	rs4813352	A	G	-0.055	0.011	4.60E-07	17842
genus.RuminococcaceaeUCG004.id.11362	rs9874831	A	G	0.080	0.016	4.59E-07	9501
genus.Anaerotruncus.id.2054	rs61946576	T	C	0.085	0.018	4.55E-07	16566
genus.Anaerotruncus.id.2054	rs7995332	C	A	0.085	0.018	4.55E-07	16566
genus.Bifidobacterium.id.436	rs520449	T	C	-0.061	0.012	4.54E-07	14023
genus.Lachnoclostridium.id.11308	rs6081562	A	T	-0.057	0.011	4.51E-07	17841
genus.Streptococcus.id.1853	rs2131006	A	G	-0.104	0.020	4.50E-07	15298

genus.Lachnoclostridium.id.11308	rs6035270	G	T	-0.056	0.011	4.50E-07	17825
genus.Eubacteriumnodatumgroup.id.11297	rs35337287	A	T	-0.176	0.034	4.47E-07	3295
genus.Peptococcus.id.2037	rs7696990	C	T	-0.115	0.023	4.47E-07	5526
genus.Sellimonas.id.14369	rs2371572	C	A	0.127	0.025	4.46E-07	3154
genus.Oxalobacter.id.2978	rs4525896	G	A	0.125	0.025	4.45E-07	4655
genus.Peptococcus.id.2037	rs317065	C	T	-0.117	0.023	4.43E-07	5526
genus.Peptococcus.id.2037	rs12649458	T	G	-0.115	0.022	4.42E-07	5526
genus.Peptococcus.id.2037	rs10026840	G	A	-0.115	0.022	4.39E-07	5526
genus.Romboutsia.id.11347	rs61841463	C	T	0.079	0.016	4.38E-07	13567
genus.Ruminiclostridium9.id.11357	rs10936139	T	C	-0.063	0.012	4.38E-07	16725
genus.Lactococcus.id.1851	rs757872	C	G	0.141	0.028	4.37E-07	3792
genus.Peptococcus.id.2037	rs6531359	C	T	-0.116	0.023	4.35E-07	5526
genus.DefluviitaleaceaeUCG011.id.11287	rs72731813	T	C	-0.147	0.029	4.33E-07	7767
genus.RuminococcaceaeUCG004.id.11362	rs4908294	A	C	0.129	0.025	4.33E-07	9020
genus.Bifidobacterium.id.436	rs1374287	C	T	0.060	0.012	4.31E-07	14778
genus.Peptococcus.id.2037	rs2028447	G	T	-0.115	0.022	4.30E-07	5526
genus.RuminococcaceaeUCG004.id.11362	rs1358460	A	T	0.129	0.025	4.30E-07	9020
genus.RuminococcaceaeUCG005.id.11363	rs10950694	C	T	0.058	0.011	4.30E-07	15821
genus.Bifidobacterium.id.436	rs1374288	C	T	0.060	0.012	4.30E-07	14778
genus.Ruminococcustorquesgroup.id.14377	rs4002471	C	T	-0.054	0.011	4.28E-07	17668
genus.Streptococcus.id.1853	rs11110259	C	A	-0.104	0.020	4.25E-07	15743
genus.Ruminiclostridium9.id.11357	rs73168799	T	C	-0.063	0.012	4.25E-07	16725
genus.Peptococcus.id.2037	rs2165454	T	C	-0.116	0.023	4.23E-07	5526
genus.Ruminiclostridium9.id.11357	rs112014459	G	T	-0.062	0.012	4.21E-07	16725
genus.Ruminococcustorquesgroup.id.14377	rs12978752	A	C	-0.054	0.011	4.20E-07	17667
genus.Bifidobacterium.id.436	rs10928523	C	T	0.060	0.012	4.18E-07	14778
genus.Coprococcus3.id.11303	rs62481985	C	G	-0.058	0.012	4.18E-07	15472
genus.Ruminococcustorquesgroup.id.14377	rs418464	T	C	-0.055	0.011	4.17E-07	17683
genus.Coprococcus3.id.11303	rs8100692	C	T	0.058	0.011	4.16E-07	15829
genus.Terrisporobacter.id.11348	rs1883097	T	C	0.226	0.045	4.16E-07	4417
genus.Ruminiclostridium9.id.11357	rs12493128	T	C	-0.063	0.012	4.15E-07	16723

genus.Bifidobacterium.id.436	rs872151	C	T	0.094	0.019	4.14E-07	14778
genus.Streptococcus.id.1853	rs11110294	A	G	-0.104	0.020	4.14E-07	15743
genus.Ruminiclostridium9.id.11357	rs11717618	G	C	-0.063	0.012	4.14E-07	16721
genus.Ruminiclostridium9.id.11357	rs4680421	G	A	-0.062	0.012	4.11E-07	16725
genus.Peptococcus.id.2037	rs13115721	C	T	-0.115	0.022	4.11E-07	5526
genus.Holdemania.id.2157	rs9500080	T	C	0.093	0.018	4.09E-07	9106
genus.Bifidobacterium.id.436	rs1964459	C	G	0.084	0.016	4.08E-07	14775
genus.Peptococcus.id.2037	rs7679824	T	C	-0.115	0.022	4.07E-07	5526
genus.Peptococcus.id.2037	rs10009627	C	T	-0.116	0.023	4.07E-07	5526
genus.Anaerotruncus.id.2054	rs61946592	T	C	0.086	0.018	4.04E-07	16566
genus.Oxalobacter.id.2978	rs4423796	C	T	0.125	0.025	4.04E-07	4653
genus.Peptococcus.id.2037	rs4859297	A	G	-0.119	0.023	4.03E-07	5526
genus.Ruminiclostridium9.id.11357	rs1851062	G	A	-0.062	0.012	4.03E-07	16725
genus.Bifidobacterium.id.436	rs9677760	A	T	0.076	0.015	4.01E-07	14778
genus.Peptococcus.id.2037	rs2375443	C	T	-0.116	0.023	4.00E-07	5526
genus.Peptococcus.id.2037	rs10015291	A	C	-0.115	0.022	3.99E-07	5526
genus.Oxalobacter.id.2978	rs6785343	C	T	0.125	0.025	3.98E-07	4655
genus.Ruminiclostridium9.id.11357	rs11715599	G	A	-0.063	0.012	3.96E-07	16721
genus.Lachnoclostridium.id.11308	rs6075500	G	A	-0.057	0.011	3.95E-07	17841
genus.Ruminiclostridium9.id.11357	rs75936762	A	G	-0.062	0.012	3.95E-07	16721
genus.Ruminiclostridium9.id.11357	rs73164102	G	A	-0.063	0.012	3.91E-07	16721
genus.Lachnoclostridium.id.11308	rs6112304	G	T	-0.057	0.011	3.90E-07	17842
genus.Anaerofilum.id.2053	rs1384873	C	G	-0.112	0.022	3.88E-07	5017
genus.Eubacteriumnodatumgroup.id.11297	rs12888970	G	A	-0.176	0.034	3.88E-07	3271
genus.FamilyXIIIAD3011group.id.11293	rs9852893	G	C	0.066	0.013	3.88E-07	14184
genus.Peptococcus.id.2037	rs28414959	G	A	-0.116	0.022	3.87E-07	5526
genus.Oxalobacter.id.2978	rs7625948	C	G	0.124	0.024	3.84E-07	4655
genus.Ruminococcustorquesgroup.id.14377	rs584768	G	A	-0.054	0.011	3.83E-07	17777
genus.Peptococcus.id.2037	rs13117468	C	T	-0.116	0.023	3.82E-07	5526
genus.Peptococcus.id.2037	rs11945212	C	T	-0.116	0.022	3.81E-07	5526
genus.Peptococcus.id.2037	rs6826721	T	G	-0.116	0.023	3.79E-07	5526

genus.Peptococcus.id.2037	rs6839270	G	A	-0.116	0.022	3.77E-07	5526
genus.Streptococcus.id.1853	rs11110096	A	G	-0.103	0.020	3.77E-07	15743
genus.Anaerofilum.id.2053	rs79598899	T	C	0.183	0.036	3.75E-07	4709
genus.Ruminiclostridium9.id.11357	rs73172105	A	G	-0.064	0.012	3.75E-07	16725
genus.Peptococcus.id.2037	rs1899279	A	C	-0.116	0.022	3.74E-07	5526
genus.LachnospiraceaeFCS020group.id.11314	rs7249113	A	G	0.068	0.013	3.72E-07	13534
genus.Faecalibacterium.id.2057	rs7970542	A	G	0.081	0.016	3.70E-07	18078
genus.Peptococcus.id.2037	rs7683635	G	A	-0.116	0.023	3.68E-07	5526
genus.RuminococcaceaeNK4A214group.id.11358	rs11586410	A	G	-0.086	0.017	3.66E-07	14822
genus.Bifidobacterium.id.436	rs1374289	C	T	0.060	0.012	3.66E-07	14777
genus.Romboutsia.id.11347	rs74668791	T	G	0.080	0.016	3.66E-07	13567
genus.Anaerotruncus.id.2054	rs1107244	A	G	0.086	0.018	3.66E-07	16566
genus.Peptococcus.id.2037	rs1837736	T	G	-0.116	0.023	3.66E-07	5526
genus.Peptococcus.id.2037	rs2028446	C	T	-0.116	0.022	3.64E-07	5526
genus.Anaerotruncus.id.2054	rs3764077	A	G	0.086	0.018	3.62E-07	16566
genus.LachnospiraceaeUCG008.id.11328	rs7111585	T	G	0.092	0.018	3.61E-07	7017
genus.Peptococcus.id.2037	rs2165455	C	A	-0.116	0.023	3.61E-07	5526
genus.Bifidobacterium.id.436	rs3739022	G	A	0.096	0.019	3.60E-07	14778
genus.Peptococcus.id.2037	rs1837737	A	G	-0.116	0.023	3.59E-07	5526
genus.RuminococcaceaeUCG004.id.11362	rs9843412	G	C	0.081	0.016	3.58E-07	9501
genus.Peptococcus.id.2037	rs6858045	G	T	-0.117	0.023	3.57E-07	5526
genus.Anaerotruncus.id.2054	rs2323487	A	T	0.086	0.018	3.57E-07	16566
genus.Bifidobacterium.id.436	rs6733130	A	C	0.060	0.012	3.57E-07	14778
genus.RuminococcaceaeUCG003.id.11361	rs57295596	G	T	-0.165	0.032	3.55E-07	6744
genus.Ruminiclostridium9.id.11357	rs73170375	A	C	-0.063	0.012	3.54E-07	16725
genus.Peptococcus.id.2037	rs7678395	A	G	-0.116	0.022	3.53E-07	5526
genus.Bifidobacterium.id.436	rs1961273	T	C	0.067	0.013	3.51E-07	14778
genus.Gordonibacter.id.821	rs77299262	T	C	-0.237	0.047	3.50E-07	3483
genus.Ruminiclostridium9.id.11357	rs6784968	T	C	-0.063	0.012	3.48E-07	16725
genus.Peptococcus.id.2037	rs10023010	T	A	-0.116	0.023	3.48E-07	5526
genus.Peptococcus.id.2037	rs425330	C	T	-0.122	0.023	3.47E-07	5526

genus.Anaerotruncus.id.2054	rs17055871	T	A	0.086	0.018	3.47E-07	16566
genus.Peptococcus.id.2037	rs10014912	T	C	-0.116	0.022	3.46E-07	5526
genus.Oxalobacter.id.2978	rs6445048	A	G	0.125	0.024	3.45E-07	4655
genus.Gordonibacter.id.821	rs7294633	T	C	0.129	0.025	3.44E-07	3723
genus.Oxalobacter.id.2978	rs10780692	T	C	0.108	0.021	3.39E-07	4655
genus.Oxalobacter.id.2978	rs6782568	C	A	0.126	0.025	3.38E-07	4655
genus.Bacteroides.id.918	rs6795673	T	C	0.054	0.011	3.38E-07	18301
genus.Allisonella.id.2174	rs785914	C	T	0.158	0.030	3.38E-07	3212
genus.Bifidobacterium.id.436	rs309122	A	G	0.080	0.015	3.35E-07	14777
genus.Peptococcus.id.2037	rs1899277	G	A	-0.117	0.023	3.35E-07	5526
genus.Ruminiclostridium9.id.11357	rs73170303	G	A	-0.063	0.012	3.35E-07	16725
genus.Tyzzereella3.id.11335	rs4147909	C	T	0.117	0.023	3.34E-07	4948
genus.Peptococcus.id.2037	rs2375442	A	G	-0.117	0.023	3.33E-07	5526
genus.Peptococcus.id.2037	rs2119531	C	G	-0.117	0.023	3.33E-07	5526
genus.Ruminococcus2.id.11374	rs78120384	G	A	-0.193	0.039	3.31E-07	6082
genus.Bifidobacterium.id.436	rs56036623	T	C	0.070	0.014	3.31E-07	14778
genus.Peptococcus.id.2037	rs10013010	G	T	-0.117	0.023	3.30E-07	5526
genus.Peptococcus.id.2037	rs2375444	T	C	-0.116	0.022	3.30E-07	5526
genus.RuminococcaceaeUCG002.id.11360	rs77564310	C	A	-0.071	0.014	3.29E-07	17000
genus.Ruminiclostridium9.id.11357	rs73170306	G	A	-0.063	0.012	3.28E-07	16725
genus.Ruminiclostridium9.id.11357	rs6800218	C	T	-0.062	0.012	3.27E-07	16724
genus.Ruminiclostridium9.id.11357	rs4680425	T	C	-0.063	0.012	3.25E-07	16725
genus.Peptococcus.id.2037	rs7659069	G	C	-0.117	0.023	3.25E-07	5526
genus.Gordonibacter.id.821	rs75773691	T	G	-0.238	0.047	3.25E-07	3483
genus.Peptococcus.id.2037	rs10026473	G	A	-0.116	0.022	3.23E-07	5526
genus.Peptococcus.id.2037	rs12646431	G	T	-0.117	0.023	3.21E-07	5526
genus.Peptococcus.id.2037	rs12646436	C	T	-0.117	0.023	3.21E-07	5526
genus.Peptococcus.id.2037	rs1837735	A	G	-0.117	0.023	3.20E-07	5526
genus.Ruminiclostridium9.id.11357	rs79990961	G	A	-0.063	0.012	3.20E-07	16721
genus.Peptococcus.id.2037	rs1583891	G	A	-0.117	0.023	3.20E-07	5526
genus.Phascolarctobacterium.id.2168	rs75882962	C	T	0.097	0.019	3.19E-07	10710

genus.Peptococcus.id.2037	rs4627887	C	T	-0.116	0.022	3.17E-07	5526
genus.Peptococcus.id.2037	rs7685367	A	C	-0.116	0.022	3.15E-07	5526
genus.Peptococcus.id.2037	rs10010382	G	A	-0.117	0.023	3.15E-07	5526
genus.Peptococcus.id.2037	rs6839264	G	A	-0.116	0.022	3.14E-07	5526
genus.Peptococcus.id.2037	rs1583890	T	C	-0.117	0.023	3.14E-07	5526
genus.Streptococcus.id.1853	rs11610034	T	C	-0.105	0.020	3.13E-07	15743
genus.Peptococcus.id.2037	rs2375441	T	A	-0.117	0.023	3.12E-07	5526
genus..Ruminococcustorquesgroup.id.14377	rs33988101	G	T	-0.055	0.011	3.09E-07	17668
genus.Romboutsia.id.11347	rs76209010	C	A	0.080	0.016	3.09E-07	13568
genus.Peptococcus.id.2037	rs10026574	G	A	-0.117	0.022	3.08E-07	5526
genus.LachnospiraceaeUCG008.id.11328	rs7111583	A	G	0.092	0.018	3.08E-07	7017
genus.Bifidobacterium.id.436	rs4954557	C	T	0.067	0.013	3.06E-07	14778
genus.RuminococcaceaeUCG004.id.11362	rs12032687	G	A	0.132	0.026	3.05E-07	8938
genus.Romboutsia.id.11347	rs61841466	G	A	0.080	0.016	3.04E-07	13567
genus.Ruminococcus1.id.11373	rs55681357	C	T	-0.060	0.012	3.04E-07	16126
genus.Anaerotruncus.id.2054	rs7337526	C	T	0.086	0.018	3.02E-07	16566
genus.Peptococcus.id.2037	rs11929973	A	G	-0.117	0.023	3.02E-07	5526
genus.Peptococcus.id.2037	rs7683780	A	G	-0.116	0.022	3.00E-07	5526
genus..Ruminococcusgavreuiiigroup.id.11342	rs7084821	A	G	-0.067	0.013	2.99E-07	13368
genus.Oxalobacter.id.2978	rs6772385	C	A	0.126	0.024	2.97E-07	4655
genus.RuminococcaceaeUCG004.id.11362	rs10874691	C	A	0.132	0.026	2.96E-07	8938
genus..Eubacteriumhalliigroup.id.11338	rs13116360	C	T	0.154	0.030	2.94E-07	10323
genus.RuminococcaceaeUCG011.id.11368	rs7752187	C	G	-0.154	0.030	2.93E-07	3632
genus.Romboutsia.id.11347	rs78114045	C	T	0.081	0.016	2.91E-07	13567
genus..Ruminococcusgavreuiiigroup.id.11342	rs71386687	G	T	0.121	0.024	2.91E-07	11340
genus.Peptococcus.id.2037	rs1899282	G	C	-0.117	0.022	2.88E-07	5526
genus.Ruminiclostridium9.id.11357	rs73166358	C	T	-0.063	0.012	2.87E-07	16725
genus.Bifidobacterium.id.436	rs62168844	A	G	0.102	0.020	2.87E-07	14775
genus..Ruminococcustorquesgroup.id.14377	rs11672900	A	G	-0.055	0.011	2.87E-07	17676
genus.Anaerotruncus.id.2054	rs7324216	C	T	0.087	0.018	2.85E-07	16563
genus.Peptococcus.id.2037	rs1114490	C	A	-0.117	0.022	2.85E-07	5526

genus..Eubacteriumeligensgroup.id.14372	rs4583233	C	A	0.067	0.013	2.84E-07	14327
genus.Oxalobacter.id.2978	rs6445049	T	G	0.126	0.024	2.82E-07	4655
genus.Peptococcus.id.2037	rs10026737	T	A	-0.117	0.022	2.80E-07	5526
genus.Peptococcus.id.2037	rs11944235	C	T	-0.114	0.022	2.79E-07	5657
genus.Oxalobacter.id.2978	rs6445047	C	T	0.126	0.024	2.78E-07	4656
genus.Odoribacter.id.952	rs472234	G	C	0.061	0.012	2.77E-07	14218
genus.Lachnoclostridium.id.11308	rs6081571	C	T	-0.057	0.011	2.76E-07	17841
genus.Romboutsia.id.11347	rs61841467	A	G	0.081	0.016	2.75E-07	13567
genus.Streptococcus.id.1853	rs11110092	C	T	-0.102	0.020	2.75E-07	15743
genus.Peptococcus.id.2037	rs10028591	G	A	-0.118	0.023	2.75E-07	5526
genus.RuminococcaceaeUCG011.id.11368	rs12525491	C	T	-0.155	0.030	2.74E-07	3632
genus.Holdmania.id.2157	rs1867876	C	T	0.084	0.016	2.74E-07	9109
genus.Peptococcus.id.2037	rs1899283	C	G	-0.117	0.022	2.73E-07	5526
genus.Bifidobacterium.id.436	rs309124	A	G	0.080	0.015	2.73E-07	14777
genus.Romboutsia.id.11347	rs41335345	C	T	0.087	0.017	2.73E-07	13568
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs57381059	G	A	-0.083	0.016	2.73E-07	17377
genus.Anaerotruncus.id.2054	rs6563551	T	G	0.087	0.018	2.72E-07	16566
genus.Bifidobacterium.id.436	rs4953938	G	A	0.061	0.012	2.71E-07	14778
genus.Romboutsia.id.11347	rs11595451	C	T	0.087	0.017	2.71E-07	13521
genus.Peptococcus.id.2037	rs7664779	T	C	-0.117	0.022	2.71E-07	5526
genus.Peptococcus.id.2037	rs9681332	G	A	0.167	0.032	2.70E-07	5483
genus.Haemophilus.id.3698	rs4132989	T	C	-0.090	0.017	2.70E-07	9116
genus.Peptococcus.id.2037	rs4634245	C	T	-0.117	0.022	2.69E-07	5526
genus.Peptococcus.id.2037	rs77681628	T	C	0.200	0.039	2.69E-07	4842
genus..Ruminococcustorquesgroup.id.14377	rs2452170	G	A	-0.055	0.011	2.69E-07	17777
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs55750250	A	G	-0.082	0.016	2.68E-07	17378
genus.Peptococcus.id.2037	rs56057697	G	T	0.167	0.032	2.68E-07	5483
genus.RuminococcaceaeUCG013.id.11370	rs12761870	C	T	-0.062	0.012	2.68E-07	16772
genus.Peptococcus.id.2037	rs7658271	C	G	-0.114	0.022	2.67E-07	5657
genus.Peptococcus.id.2037	rs6827461	G	A	-0.117	0.022	2.67E-07	5526
genus.Bifidobacterium.id.436	rs4954573	T	G	0.066	0.013	2.65E-07	14778

genus.Peptococcus.id.2037	rs6834090	C	A	-0.117	0.022	2.65E-07	5526
genus.Peptococcus.id.2037	rs10015792	C	T	-0.117	0.022	2.64E-07	5526
genus.RuminococcaceaeUCG004.id.11362	rs12047707	G	A	0.135	0.026	2.64E-07	8938
genus.Anaerofilum.id.2053	rs816292	C	T	-0.113	0.022	2.64E-07	5017
genus.Paraprevotella.id.962	rs2081023	G	A	-0.123	0.024	2.64E-07	7178
genus.Peptococcus.id.2037	rs77534638	G	A	0.171	0.033	2.63E-07	5329
genus..Ruminococcustorquesgroup.id.14377	rs546308	A	G	0.055	0.011	2.61E-07	17790
genus.RuminococcaceaeUCG004.id.11362	rs9725226	G	A	0.132	0.025	2.58E-07	9020
genus.Peptococcus.id.2037	rs13120223	T	G	-0.117	0.022	2.58E-07	5526
genus.Ruminococcus1.id.11373	rs895734	T	C	-0.058	0.011	2.57E-07	16607
genus.Odoribacter.id.952	rs580930	C	T	0.061	0.012	2.56E-07	14218
genus.Peptococcus.id.2037	rs10006991	C	A	-0.117	0.022	2.56E-07	5526
genus.Ruminiclostridium6.id.11356	rs1756364	T	G	0.100	0.020	2.54E-07	12933
genus.RuminococcaceaeUCG011.id.11368	rs6930304	C	T	-0.175	0.034	2.53E-07	3632
genus..Eubacteriumcoprostanoligenesgroup.id.11375	rs9648214	C	T	-0.083	0.016	2.52E-07	17379
genus.Holdemanella.id.11393	rs9365544	T	C	0.094	0.018	2.52E-07	7703
genus..Eubacteriumventriosumgroup.id.11341	rs6048195	T	A	-0.060	0.012	2.50E-07	14839
genus.Anaerotruncus.id.2054	rs73180681	C	T	0.087	0.018	2.48E-07	16566
genus.Subdoligranulum.id.2070	rs12638227	C	G	-0.056	0.011	2.48E-07	17165
genus.Peptococcus.id.2037	rs1583888	T	C	-0.118	0.023	2.47E-07	5526
genus..Ruminococcusgauvreauigroup.id.11342	rs2047242	G	A	-0.068	0.013	2.46E-07	13369
genus.Peptococcus.id.2037	rs6838889	G	A	-0.117	0.022	2.46E-07	5526
genus.Bifidobacterium.id.436	rs4954445	T	A	0.099	0.019	2.46E-07	14778
genus.Lachnoclostridium.id.11308	rs6112314	C	A	-0.056	0.011	2.43E-07	17842
genus.LachnospiraceaeUCG008.id.11328	rs9873555	C	G	-0.121	0.023	2.41E-07	6577
genus.Peptococcus.id.2037	rs2165453	A	G	-0.118	0.023	2.41E-07	5526
genus..Eubacteriumxylanophilumgroup.id.14375	rs17830032	A	G	-0.161	0.031	2.39E-07	9527
genus.Bifidobacterium.id.436	rs10928558	T	C	0.066	0.013	2.39E-07	14778
genus.Peptococcus.id.2037	rs11939412	T	C	-0.118	0.022	2.39E-07	5526
genus.Bifidobacterium.id.436	rs10187990	A	G	0.061	0.012	2.37E-07	14778
genus.Bifidobacterium.id.436	rs1947112	A	G	0.061	0.012	2.35E-07	14778

genus.RuminococcaceaeNK4A214group.id.11358	rs5994253	G	A	-0.081	0.016	2.35E-07	15288
genus.Anaerotruncus.id.2054	rs6563550	C	T	0.088	0.018	2.35E-07	16566
genus.Bifidobacterium.id.436	rs1519525	C	T	0.066	0.013	2.32E-07	14778
genus.Peptococcus.id.2037	rs988769	C	G	-0.118	0.022	2.28E-07	5526
genus.Romboutsia.id.11347	rs61844361	T	C	0.082	0.016	2.28E-07	13567
genus.Peptococcus.id.2037	rs7662185	C	A	-0.114	0.022	2.27E-07	5657
genus..Ruminococcustorquesgroup.id.14377	rs629504	G	C	0.055	0.011	2.26E-07	17792
genus.Peptococcus.id.2037	rs6531357	C	T	-0.119	0.023	2.25E-07	5526
genus.Bifidobacterium.id.436	rs10193587	T	C	0.067	0.013	2.24E-07	14666
genus.Peptococcus.id.2037	rs9684906	C	T	-0.118	0.022	2.22E-07	5526
genus.RuminococcaceaeUCG013.id.11370	rs12416132	T	C	-0.062	0.012	2.20E-07	16772
genus.Bifidobacterium.id.436	rs7564577	C	T	0.086	0.017	2.19E-07	14776
genus.Peptococcus.id.2037	rs4277795	T	A	-0.118	0.022	2.18E-07	5526
genus.Bifidobacterium.id.436	rs3769023	G	A	0.062	0.012	2.16E-07	14778
genus.Bifidobacterium.id.436	rs61470941	T	C	0.098	0.019	2.13E-07	14778
genus.Peptococcus.id.2037	rs4467591	G	A	-0.118	0.022	2.12E-07	5526
genus.RuminococcaceaeUCG004.id.11362	rs12125734	T	G	0.134	0.026	2.09E-07	8938
genus..Ruminococcustorquesgroup.id.14377	rs3859439	C	T	0.055	0.011	2.08E-07	17793
genus.Odoribacter.id.952	rs503751	G	C	0.062	0.012	2.08E-07	14218
genus.Bifidobacterium.id.436	rs3769011	A	T	0.099	0.019	2.08E-07	14778
genus.Ruminiclostridium9.id.11357	rs57665991	G	C	-0.064	0.012	2.07E-07	16725
genus.Ruminococcus1.id.11373	rs34264431	A	G	-0.060	0.011	2.07E-07	16596
genus.Oxalobacter.id.2978	rs6000536	T	C	-0.131	0.025	2.06E-07	4654
genus.Peptococcus.id.2037	rs7441225	T	C	-0.118	0.022	2.04E-07	5526
genus.Peptococcus.id.2037	rs1899284	G	C	-0.118	0.022	2.04E-07	5526
genus.Oxalobacter.id.2978	rs12635823	A	G	0.126	0.024	2.03E-07	4656
genus.Streptococcus.id.1853	rs76222580	T	A	-0.107	0.020	2.01E-07	15743
genus.Bifidobacterium.id.436	rs2322812	A	G	0.099	0.019	2.00E-07	14778
genus.Bifidobacterium.id.436	rs74697610	A	T	0.109	0.021	2.00E-07	14561
genus.Peptococcus.id.2037	rs2375445	C	G	-0.118	0.022	2.00E-07	5526
genus.Peptococcus.id.2037	rs6856177	T	G	-0.118	0.022	1.99E-07	5526

genus.Streptococcus.id.1853	rs11614784	G	A	-0.107	0.020	1.96E-07	15743
genus..Ruminococcustorquesgroup.id.14377	rs11878908	C	T	-0.056	0.011	1.96E-07	17681
genus.Peptococcus.id.2037	rs28778129	C	A	-0.118	0.022	1.94E-07	5526
genus.Streptococcus.id.1853	rs7306985	C	T	-0.106	0.020	1.93E-07	15743
genus.Peptococcus.id.2037	rs9991605	T	G	-0.119	0.022	1.91E-07	5526
genus..Ruminococcustorquesgroup.id.14377	rs838145	A	G	-0.058	0.011	1.90E-07	17240
genus..Ruminococcustorquesgroup.id.14377	rs519757	C	A	0.056	0.011	1.88E-07	17792
genus.Bifidobacterium.id.436	rs56271357	C	T	0.062	0.012	1.87E-07	14778
genus.Streptococcus.id.1853	rs76734283	G	C	-0.106	0.020	1.86E-07	15743
genus..Ruminococcustorquesgroup.id.14377	rs8112983	T	C	-0.056	0.011	1.86E-07	17684
genus.Streptococcus.id.1853	rs11110206	T	C	-0.118	0.022	1.86E-07	15229
genus.Gordonibacter.id.821	rs74484720	C	T	-0.243	0.047	1.84E-07	3483
genus.Peptococcus.id.2037	rs10015798	C	T	-0.118	0.022	1.84E-07	5526
genus.Oxalobacter.id.2978	rs4481179	C	G	0.126	0.024	1.84E-07	4656
genus.Enterorhabdus.id.820	rs62323861	G	A	0.086	0.016	1.83E-07	7524
genus.RuminococcaceaeUCG013.id.11370	rs10903693	C	A	-0.060	0.011	1.82E-07	16769
genus.Bifidobacterium.id.436	rs58080116	A	G	0.100	0.019	1.81E-07	14778
genus.Bifidobacterium.id.436	rs2090661	A	G	0.068	0.013	1.80E-07	14775
genus.Bifidobacterium.id.436	rs3814355	C	T	0.062	0.012	1.79E-07	14778
genus.Bifidobacterium.id.436	rs3814354	G	A	0.062	0.012	1.79E-07	14778
genus.Peptococcus.id.2037	rs13105343	T	C	-0.119	0.023	1.79E-07	5526
genus.Bifidobacterium.id.436	rs13010498	G	C	-0.066	0.013	1.78E-07	14666
genus.Peptococcus.id.2037	rs6531356	G	A	-0.119	0.022	1.78E-07	5526
genus.Butyricimonas.id.945	rs111284490	C	T	-0.144	0.027	1.77E-07	9949
genus.RuminococcaceaeUCG011.id.11368	rs35283097	C	T	-0.157	0.030	1.76E-07	3632
genus.RuminococcaceaeUCG011.id.11368	rs34705704	T	C	-0.157	0.030	1.76E-07	3632
genus.Streptococcus.id.1853	rs11110280	G	A	-0.107	0.020	1.76E-07	15743
genus.Bifidobacterium.id.436	rs10166142	A	G	0.062	0.012	1.76E-07	14778
genus..Ruminococcustorquesgroup.id.14377	rs2638282	G	A	-0.056	0.011	1.75E-07	17776
genus.Oxalobacter.id.2978	rs7643618	G	A	0.127	0.024	1.75E-07	4655
genus.Butyricimonas.id.945	rs113054641	A	G	-0.145	0.027	1.74E-07	9949

genus.RuminococcaceaeUCG011.id.11368	rs12526170	G	A	-0.157	0.030	1.74E-07	3632
genus.Bifidobacterium.id.436	rs2034261	G	T	0.062	0.012	1.72E-07	14778
genus.Bifidobacterium.id.436	rs1807356	T	C	0.089	0.017	1.72E-07	14778
genus.Oxalobacter.id.2978	rs10746751	T	C	0.110	0.021	1.72E-07	4654
genus.Oxalobacter.id.2978	rs11140800	A	C	0.111	0.021	1.71E-07	4654
genus.Streptococcus.id.1853	rs7308947	A	T	-0.106	0.020	1.71E-07	15741
genus.Peptococcus.id.2037	rs1372155	A	C	-0.119	0.022	1.71E-07	5526
genus.Oxalobacter.id.2978	rs7644098	G	C	0.127	0.024	1.69E-07	4655
genus.Ruminococcus1.id.11373	rs10769160	C	T	-0.059	0.011	1.69E-07	16602
genus.Gordonibacter.id.821	rs76287110	T	A	-0.243	0.047	1.67E-07	3483
genus.Peptococcus.id.2037	rs4280753	C	T	-0.119	0.022	1.66E-07	5526
genus.Streptococcus.id.1853	rs118038800	C	T	-0.107	0.020	1.66E-07	15743
genus.RuminococcaceaeUCG003.id.11361	rs73341548	G	T	-0.170	0.032	1.65E-07	6744
genus.Erysipelatoclostridium.id.11381	rs4791963	G	A	-0.076	0.015	1.65E-07	9662
genus.Streptococcus.id.1853	rs11110208	T	C	-0.118	0.022	1.65E-07	15229
genus.Intestinibacter.id.11345	rs4327025	A	G	-0.081	0.015	1.64E-07	12303
genus.Peptococcus.id.2037	rs12650638	G	T	-0.121	0.023	1.64E-07	5526
genus.Bifidobacterium.id.436	rs4954578	T	C	0.067	0.013	1.63E-07	14778
genus.Streptococcus.id.1853	rs138049946	T	C	-0.107	0.020	1.63E-07	15743
genus.RikenellaceaeRC9gutgroup.id.11191	rs7020474	A	G	-0.180	0.034	1.62E-07	3320
genus.RuminococcaceaeUCG011.id.11368	rs17522882	T	G	-0.177	0.034	1.61E-07	3632
genus.Streptococcus.id.1853	rs11110214	A	G	-0.118	0.022	1.60E-07	15229
genus.Streptococcus.id.1853	rs11110212	T	C	-0.118	0.022	1.60E-07	15229
genus.Allisonella.id.2174	rs785907	T	G	0.161	0.030	1.59E-07	3212
genus.RuminococcaceaeUCG011.id.11368	rs60647205	C	T	-0.158	0.030	1.58E-07	3632
genus.Ruminococcus1.id.11373	rs45486999	C	T	-0.061	0.011	1.58E-07	16601
genus.Ruminococcustorquesgroup.id.14377	rs12979891	C	T	-0.056	0.011	1.58E-07	17680
genus.Ruminococcusgnavusgroup.id.14376	rs6893333	C	G	-0.121	0.023	1.56E-07	6327
genus.Bifidobacterium.id.436	rs62168897	C	T	0.062	0.012	1.56E-07	14778
genus.RikenellaceaeRC9gutgroup.id.11191	rs2900503	T	G	-0.172	0.033	1.55E-07	3320
genus.RuminococcaceaeUCG003.id.11361	rs73341549	C	T	-0.170	0.032	1.51E-07	6744

genus.Streptococcus.id.1853	rs113804138	C	T	-0.119	0.022	1.48E-07	15229
genus.Bifidobacterium.id.436	rs62168846	G	A	0.106	0.020	1.47E-07	14775
genus.Haemophilus.id.3698	rs12191680	G	C	0.107	0.020	1.47E-07	9115
genus.LachnospiraceaeUCG001.id.11321	rs985416	T	C	0.097	0.018	1.46E-07	9917
genus.Enterorhabdus.id.820	rs13126578	A	C	0.087	0.016	1.44E-07	7524
genus.Bifidobacterium.id.436	rs62168843	T	C	0.105	0.020	1.43E-07	14775
genus.Bifidobacterium.id.436	rs1964776	C	T	0.067	0.013	1.38E-07	14778
genus.Holdemanella.id.11393	rs761624	G	C	0.096	0.018	1.38E-07	7706
genus..Ruminococcustorquesgroup.id.14377	rs11666792	G	A	-0.056	0.011	1.37E-07	17681
genus.Streptococcus.id.1853	rs2029585	T	C	-0.119	0.022	1.37E-07	15229
genus.Streptococcus.id.1853	rs76452890	G	C	-0.120	0.022	1.36E-07	15227
genus.Streptococcus.id.1853	rs7316887	G	A	-0.108	0.020	1.35E-07	15634
genus.Bifidobacterium.id.436	rs62168847	T	C	0.105	0.020	1.34E-07	14775
genus.RuminococcaceaeUCG011.id.11368	rs35521499	A	G	-0.178	0.034	1.33E-07	3632
genus.RuminococcaceaeUCG013.id.11370	rs12773579	G	A	-0.063	0.012	1.32E-07	16772
genus.Peptococcus.id.2037	rs114500003	T	C	0.172	0.032	1.32E-07	5483
genus.Streptococcus.id.1853	rs11524043	G	A	-0.108	0.020	1.30E-07	15743
genus.Bifidobacterium.id.436	rs16833335	G	A	0.067	0.013	1.29E-07	14778
genus.Haemophilus.id.3698	rs7771624	C	A	-0.092	0.017	1.27E-07	9119
genus.Bifidobacterium.id.436	rs2874874	A	C	0.101	0.019	1.27E-07	14778
genus.Streptococcus.id.1853	rs12366744	T	A	-0.119	0.022	1.26E-07	15227
genus.Bifidobacterium.id.436	rs1123848	C	T	0.067	0.013	1.24E-07	14776
genus.Peptococcus.id.2037	rs10031059	C	T	-0.121	0.023	1.24E-07	5526
genus.Enterorhabdus.id.820	rs4834119	G	A	0.086	0.016	1.23E-07	7524
genus.Faecalibacterium.id.2057	rs10862584	G	A	0.084	0.016	1.22E-07	18086
genus..Ruminococcustorquesgroup.id.14377	rs11882796	A	T	-0.057	0.011	1.22E-07	17680
genus.Oxalobacter.id.2978	rs10465181	T	C	0.112	0.021	1.21E-07	4654
genus.Bifidobacterium.id.436	rs6708336	T	A	0.063	0.012	1.20E-07	14778
genus.Streptococcus.id.1853	rs11110249	T	A	-0.122	0.023	1.20E-07	15229
genus..Ruminococcusgnavusgroup.id.14376	rs35326214	T	A	-0.124	0.023	1.19E-07	6327
genus.Bifidobacterium.id.436	rs578384	C	T	-0.064	0.012	1.19E-07	14020

genus.Coprococcus1.id.11301	rs4277593	A	G	-0.059	0.011	1.14E-07	16651
genus.Ruminococcustorquesgroup.id.14377	rs2287921	T	C	-0.057	0.011	1.13E-07	17685
genus.Streptococcus.id.1853	rs11110200	A	T	-0.123	0.023	1.11E-07	15115
genus.Bifidobacterium.id.436	rs60376570	G	A	0.101	0.019	1.09E-07	14778
genus.Romboutsia.id.11347	rs61844362	T	C	0.084	0.016	1.08E-07	13567
genus.Bifidobacterium.id.436	rs4954577	A	G	0.068	0.013	1.08E-07	14778
genus.Bifidobacterium.id.436	rs56211644	T	C	0.102	0.019	1.07E-07	14778
genus.Streptococcus.id.1853	rs76118421	T	A	-0.110	0.020	1.06E-07	15634
genus.Bifidobacterium.id.436	rs10928554	C	T	0.102	0.018	1.03E-07	14666
genus.Faecalibacterium.id.2057	rs7960298	C	T	0.085	0.016	1.03E-07	18087
genus.Bifidobacterium.id.436	rs4954397	A	G	0.068	0.013	1.00E-07	14778
genus.RuminococcaceaeUCG011.id.11368	rs35202762	C	T	-0.160	0.030	9.98E-08	3632
genus.Ruminococcustorquesgroup.id.14377	rs660745	T	C	-0.057	0.011	9.88E-08	17787
genus.Streptococcus.id.1853	rs11110164	C	G	-0.109	0.020	9.75E-08	15634
genus.Streptococcus.id.1853	rs11110091	G	A	-0.110	0.020	9.55E-08	15634
genus.Bifidobacterium.id.436	rs638382	C	T	-0.065	0.012	9.45E-08	14021
genus.Ruminococcus1.id.11373	rs7121696	C	T	-0.061	0.011	9.39E-08	16605
genus.LachnospiraceaeUCG008.id.11328	rs10793103	T	C	0.097	0.018	9.35E-08	7014
genus.Bifidobacterium.id.436	rs13007153	T	C	0.070	0.013	9.07E-08	14774
genus.Lactococcus.id.1851	rs34757988	C	G	0.122	0.023	8.95E-08	4055
genus.Streptococcus.id.1853	rs7308069	C	A	-0.109	0.020	8.94E-08	15743
genus.Allisonella.id.2174	rs512269	C	T	0.164	0.030	8.90E-08	3212
genus.Bifidobacterium.id.436	rs584226	T	C	0.097	0.018	8.88E-08	14778
genus.Bifidobacterium.id.436	rs35215526	G	A	0.108	0.020	8.84E-08	14775
genus.Bifidobacterium.id.436	rs12473760	C	A	0.068	0.013	8.67E-08	14778
genus.Bifidobacterium.id.436	rs35564151	A	G	0.064	0.012	8.56E-08	14666
genus.Erysipelatoclostridium.id.11381	rs4791400	A	G	-0.077	0.014	8.56E-08	9780
genus.Streptococcus.id.1853	rs111326382	A	G	-0.108	0.020	8.51E-08	15743
genus.Allisonella.id.2174	rs785915	A	G	0.165	0.030	8.27E-08	3212
genus.Oxalobacter.id.2978	rs10868238	C	T	0.113	0.021	8.22E-08	4656
genus.Bifidobacterium.id.436	rs6430580	A	G	0.092	0.018	8.04E-08	14778

genus.Streptococcus.id.1853	rs60861038	C	T	-0.110	0.020	7.95E-08	15743
genus.RuminococcaceaeUCG004.id.11362	rs6769553	G	A	0.085	0.016	7.91E-08	9501
genus.Ruminococcus1.id.11373	rs10838504	C	T	0.060	0.011	7.86E-08	16600
genus.Streptococcus.id.1853	rs11110125	A	G	-0.109	0.020	7.71E-08	15743
genus.unknowngenus.id.1000001215	rs2005426	C	A	-0.159	0.029	7.70E-08	5764
genus.Oxalobacter.id.2978	rs4428215	A	G	0.130	0.024	7.51E-08	4655
genus.Eubacteriumnodatumgroup.id.11297	rs12147432	C	A	-0.186	0.034	7.48E-08	3271
genus.Haemophilus.id.3698	rs7740611	C	A	-0.093	0.017	7.47E-08	9118
genus.LachnospiraceaeUCG001.id.11321	rs437876	C	T	0.078	0.014	7.17E-08	10150
genus.Haemophilus.id.3698	rs9382510	T	C	-0.094	0.017	7.12E-08	9117
genus.Streptococcus.id.1853	rs12370791	T	G	-0.123	0.022	7.08E-08	15228
genus.Peptococcus.id.2037	rs77922631	A	T	0.179	0.033	7.05E-08	5329
genus.RuminococcaceaeUCG011.id.11368	rs1416041	C	A	-0.182	0.034	7.04E-08	3632
genus.Turicibacter.id.2162	rs149744580	G	A	0.170	0.032	7.01E-08	8459
genus.Bifidobacterium.id.436	rs57543738	T	C	0.103	0.019	6.87E-08	14778
genus.Bifidobacterium.id.436	rs7609188	G	C	0.115	0.022	6.86E-08	12157
genus.Streptococcus.id.1853	rs74484094	C	T	-0.123	0.022	6.75E-08	15229
genus.Allisonella.id.2174	rs513301	C	T	0.166	0.030	6.73E-08	3212
genus.unknowngenus.id.959	rs2199860	G	C	0.121	0.022	6.64E-08	4864
genus.Eubacteriumnodatumgroup.id.11297	rs34297067	G	A	-0.187	0.034	6.60E-08	3271
genus.Faecalibacterium.id.2057	rs7966283	A	G	0.085	0.016	6.24E-08	18077
genus.Streptococcus.id.1853	rs150200257	G	A	-0.128	0.023	6.21E-08	15115
genus.Peptococcus.id.2037	rs56249239	T	C	0.175	0.032	6.07E-08	5483
genus.Bifidobacterium.id.436	rs4954388	T	C	0.071	0.013	6.05E-08	14775
genus.Streptococcus.id.1853	rs11110191	C	T	-0.111	0.020	6.05E-08	15743
genus.Bifidobacterium.id.436	rs2056297	G	T	0.069	0.013	6.04E-08	14778
genus.Streptococcus.id.1853	rs11110190	T	C	-0.111	0.020	5.94E-08	15743
genus.Bifidobacterium.id.436	rs78141345	G	A	0.104	0.019	5.92E-08	14778
genus.Streptococcus.id.1853	rs75007764	G	A	-0.123	0.022	5.91E-08	15229
genus.Streptococcus.id.1853	rs7312868	G	A	-0.112	0.020	5.91E-08	15634
genus.Streptococcus.id.1853	rs11110130	A	T	-0.112	0.020	5.83E-08	15633

genus.Streptococcus.id.1853	rs56843411	G	A	-0.122	0.022	5.76E-08	15229
genus.Bifidobacterium.id.436	rs4954570	G	C	0.073	0.014	5.73E-08	14776
genus.Streptococcus.id.1853	rs7298009	T	C	-0.112	0.020	5.73E-08	15633
genus.Allisonella.id.2174	rs502417	C	T	0.166	0.030	5.71E-08	3212
genus.Peptococcus.id.2037	rs139136610	C	T	0.172	0.032	5.63E-08	5480
genus.Streptococcus.id.1853	rs11110184	A	G	-0.112	0.020	5.63E-08	15743
genus.Streptococcus.id.1853	rs11110257	C	T	-0.124	0.022	5.62E-08	15228
genus..Ruminococcusgnavusgroup.id.14376	rs13163520	A	G	-0.127	0.023	5.61E-08	6326
genus.Streptococcus.id.1853	rs138155218	C	G	-0.112	0.020	5.55E-08	15634
genus.Ruminococcus1.id.11373	rs36106594	C	T	-0.062	0.011	5.55E-08	16602
genus.Bifidobacterium.id.436	rs2102896	T	C	0.069	0.013	5.49E-08	14778
genus.Bifidobacterium.id.436	rs16855656	A	G	0.095	0.017	5.47E-08	14778
genus.Bifidobacterium.id.436	rs953387	A	C	0.069	0.013	5.45E-08	14778
genus.Allisonella.id.2174	rs785916	G	A	0.167	0.030	5.38E-08	3212
genus.Bifidobacterium.id.436	rs7565871	G	C	0.086	0.017	5.37E-08	14777
genus.unknowngenus.id.1000001215	rs9830438	A	C	-0.160	0.029	5.27E-08	5768
genus.Streptococcus.id.1853	rs11832216	C	T	-0.124	0.022	5.27E-08	15229
genus.Ruminococcus1.id.11373	rs45604433	C	G	-0.063	0.011	5.09E-08	16602
genus.Streptococcus.id.1853	rs11110110	G	A	-0.112	0.020	5.02E-08	15634
genus.Streptococcus.id.1853	rs11495178	C	A	-0.112	0.020	5.01E-08	15743
genus..Ruminococcustorquesgroup.id.14377	rs2287922	G	A	-0.059	0.011	4.90E-08	17679
genus.Streptococcus.id.1853	rs10860539	C	T	-0.111	0.020	4.83E-08	15742
genus.Bifidobacterium.id.436	rs10803550	C	T	0.069	0.013	4.80E-08	14778
genus.Allisonella.id.2174	rs2480213	G	A	0.167	0.030	4.77E-08	3212
genus.Streptococcus.id.1853	rs112118907	C	A	-0.125	0.022	4.70E-08	15229
genus.Ruminococcus1.id.11373	rs4148895	G	C	-0.060	0.011	4.70E-08	16607
genus.Bifidobacterium.id.436	rs13008147	A	G	-0.070	0.014	4.70E-08	13806
genus.Bifidobacterium.id.436	rs55634455	T	C	0.105	0.019	4.66E-08	14778
genus.unknowngenus.id.1000001215	rs9864379	C	T	-0.161	0.029	4.66E-08	5768
genus.Bifidobacterium.id.436	rs6756200	T	C	0.065	0.012	4.63E-08	14666
genus.Bifidobacterium.id.436	rs16831994	T	C	0.117	0.022	4.59E-08	12157

genus.Bifidobacterium.id.436	rs4954396	A	C	0.069	0.013	4.57E-08	14778
genus.Streptococcus.id.1853	rs11110171	G	A	-0.112	0.020	4.56E-08	15742
genus.Bifidobacterium.id.436	rs4954572	G	T	0.069	0.013	4.55E-08	14778
genus.RuminococcaceaeUCG009.id.11366	rs8009993	C	G	-0.136	0.024	4.42E-08	7389
genus.Streptococcus.id.1853	rs11110211	T	G	-0.125	0.022	4.23E-08	15229
genus.Streptococcus.id.1853	rs11110160	A	G	-0.113	0.020	4.14E-08	15634
genus.Allisonella.id.2174	rs785928	T	G	0.168	0.030	4.10E-08	3212
genus.Streptococcus.id.1853	rs11110251	A	C	-0.125	0.022	4.06E-08	15229
genus.Streptococcus.id.1853	rs12371224	A	T	-0.112	0.020	4.03E-08	15742
genus.Romboutsia.id.11347	rs61841503	A	G	0.093	0.017	4.00E-08	13568
genus.Streptococcus.id.1853	rs11110250	T	C	-0.125	0.022	3.98E-08	15229
genus.Streptococcus.id.1853	rs11110204	A	G	-0.127	0.023	3.93E-08	15120
genus.Streptococcus.id.1853	rs10860540	A	C	-0.112	0.020	3.89E-08	15742
genus.Bifidobacterium.id.436	rs6729961	T	G	0.120	0.022	3.87E-08	12157
genus.Streptococcus.id.1853	rs12371009	A	G	-0.113	0.020	3.79E-08	15743
genus.Bifidobacterium.id.436	rs950176	A	G	0.070	0.013	3.70E-08	14777
genus.Bifidobacterium.id.436	rs12478902	T	C	0.099	0.018	3.69E-08	14777
genus.Bifidobacterium.id.436	rs4954566	C	T	0.070	0.013	3.69E-08	14778
genus.Bifidobacterium.id.436	rs309132	C	G	0.102	0.018	3.68E-08	14778
genus.Bifidobacterium.id.436	rs4954564	A	G	0.070	0.013	3.58E-08	14777
genus.Streptococcus.id.1853	rs10860537	C	T	-0.113	0.020	3.57E-08	15634
genus.Allisonella.id.2174	rs602075	G	A	0.169	0.030	3.57E-08	3212
genus.Bifidobacterium.id.436	rs6707289	A	G	0.120	0.022	3.55E-08	12157
genus.Bifidobacterium.id.436	rs6720497	G	A	0.120	0.022	3.55E-08	12157
genus.Intestinibacter.id.11345	rs10805326	A	G	0.078	0.014	3.55E-08	12303
genus.Ruminococcus1.id.11373	rs4148901	T	G	-0.061	0.011	3.48E-08	16607
genus.Bifidobacterium.id.436	rs12616955	C	T	0.070	0.013	3.48E-08	14778
genus.Streptococcus.id.1853	rs11110140	T	C	-0.114	0.020	3.44E-08	15633
genus..Ruminococcustorquesgroup.id.14377	rs281379	G	A	-0.060	0.011	3.35E-08	17240
genus.Bifidobacterium.id.436	rs10171677	G	A	0.065	0.012	3.28E-08	14666
genus.Streptococcus.id.1853	rs11110118	C	T	-0.114	0.020	3.28E-08	15634

genus.Streptococcus.id.1853	rs57062458	C	T	-0.121	0.022	3.19E-08	15228
genus.Streptococcus.id.1853	rs12369165	C	T	-0.113	0.020	3.18E-08	15742
genus.Bifidobacterium.id.436	rs4954569	C	T	0.070	0.013	3.15E-08	14778
genus.Bifidobacterium.id.436	rs2164331	C	T	0.103	0.018	3.12E-08	14778
genus.Ruminococcus1.id.11373	rs12420703	T	C	-0.061	0.011	3.04E-08	16607
genus.Bifidobacterium.id.436	rs72970286	T	G	0.117	0.021	3.01E-08	12156
genus.Streptococcus.id.1853	rs114181124	G	A	-0.114	0.020	2.96E-08	15633
genus.Bifidobacterium.id.436	rs4954392	A	G	0.070	0.013	2.94E-08	14778
genus.Ruminococcus1.id.11373	rs11603055	C	T	-0.061	0.011	2.92E-08	16607
genus.Bifidobacterium.id.436	rs3754690	C	T	0.107	0.019	2.92E-08	14778
genus.Streptococcus.id.1853	rs11110241	T	C	-0.122	0.022	2.72E-08	15228
genus.Streptococcus.id.1853	rs11110158	G	A	-0.132	0.023	2.71E-08	15118
genus.Streptococcus.id.1853	rs11110129	A	G	-0.115	0.020	2.71E-08	15633
genus.Bifidobacterium.id.436	rs6745996	A	G	0.096	0.018	2.70E-08	14778
genus.Bifidobacterium.id.436	rs6715785	G	A	0.070	0.013	2.69E-08	14778
genus.Bifidobacterium.id.436	rs16832200	T	C	0.099	0.018	2.68E-08	14778
genus.Oxalobacter.id.2978	rs736744	T	C	0.118	0.021	2.57E-08	4655
genus.RuminococcaceaeUCG013.id.11370	rs12781711	T	C	-0.066	0.012	2.55E-08	16772
genus.Streptococcus.id.1853	rs12370204	C	T	-0.115	0.020	2.54E-08	15633
genus.Ruminococcus1.id.11373	rs4148899	T	C	-0.061	0.011	2.53E-08	16607
genus.Streptococcus.id.1853	rs116172730	G	A	-0.127	0.022	2.51E-08	15229
genus.Bifidobacterium.id.436	rs1942055	G	C	0.067	0.012	2.48E-08	14774
genus.Streptococcus.id.1853	rs11110196	C	A	-0.115	0.020	2.45E-08	15634
genus.Bifidobacterium.id.436	rs12233092	G	A	0.100	0.018	2.40E-08	14775
genus.Enterorhabdus.id.820	rs2136230	T	A	-0.091	0.016	2.39E-08	7524
genus.Bifidobacterium.id.436	rs6727889	C	T	0.092	0.017	2.37E-08	14778
genus.Streptococcus.id.1853	rs11110198	G	A	-0.115	0.020	2.36E-08	15634
genus.Streptococcus.id.1853	rs7138882	A	G	-0.128	0.022	2.29E-08	15229
genus.Streptococcus.id.1853	rs11110138	T	C	-0.115	0.020	2.28E-08	15633
genus.Bifidobacterium.id.436	rs7594509	G	T	0.089	0.017	2.26E-08	14778
genus.Bifidobacterium.id.436	rs72972104	G	A	0.118	0.022	2.26E-08	12157

genus.Bifidobacterium.id.436	rs56067372	C	T	0.105	0.018	2.23E-08	14778
genus.Ruminococcustorquesgroup.id.14377	rs35866622	C	T	-0.061	0.011	2.21E-08	17240
genus.Streptococcus.id.1853	rs12368073	C	A	-0.123	0.022	2.18E-08	15228
genus.Streptococcus.id.1853	rs115024257	G	A	-0.115	0.020	2.16E-08	15633
genus.Streptococcus.id.1853	rs11110288	C	T	-0.128	0.022	2.15E-08	15229
genus.Streptococcus.id.1853	rs12367656	T	C	-0.129	0.023	2.15E-08	15120
genus.Bifidobacterium.id.436	rs62170081	A	G	0.121	0.022	2.14E-08	12157
genus.Enterorhabdus.id.820	rs11098865	T	C	-0.091	0.016	2.14E-08	7524
genus.Bifidobacterium.id.436	rs56982689	C	T	0.119	0.022	2.13E-08	12157
genus.Bifidobacterium.id.436	rs74266324	G	A	0.085	0.015	2.13E-08	14666
genus.Bifidobacterium.id.436	rs6705610	T	G	0.089	0.017	2.02E-08	14778
genus.Streptococcus.id.1853	rs12371930	G	A	-0.135	0.024	1.99E-08	14761
genus.Bifidobacterium.id.436	rs11897217	C	T	0.089	0.017	1.98E-08	14778
genus.Streptococcus.id.1853	rs7296331	C	T	-0.128	0.022	1.98E-08	15229
genus.Streptococcus.id.1853	rs74767263	C	G	-0.116	0.020	1.92E-08	15633
genus.Streptococcus.id.1853	rs114272490	T	C	-0.116	0.020	1.89E-08	15634
genus.Streptococcus.id.1853	rs78367981	G	C	-0.128	0.022	1.88E-08	15229
genus.Bifidobacterium.id.436	rs6752519	C	T	0.104	0.018	1.78E-08	14778
genus.Streptococcus.id.1853	rs11110235	T	C	-0.129	0.022	1.76E-08	15229
genus.Streptococcus.id.1853	rs7967270	A	C	-0.116	0.020	1.74E-08	15633
genus.Bifidobacterium.id.436	rs6430593	G	A	0.101	0.018	1.74E-08	14778
genus.Bifidobacterium.id.436	rs4954430	C	T	0.121	0.022	1.70E-08	12156
genus.Bifidobacterium.id.436	rs2322445	T	A	0.090	0.017	1.66E-08	14778
genus.Streptococcus.id.1853	rs11110148	G	C	-0.116	0.020	1.61E-08	15634
genus.Bifidobacterium.id.436	rs4954633	C	T	0.120	0.022	1.60E-08	12157
genus.Bifidobacterium.id.436	rs2322725	T	C	0.100	0.018	1.52E-08	14778
genus.Enterorhabdus.id.820	rs4833344	C	T	0.092	0.016	1.48E-08	7524
genus.Bifidobacterium.id.436	rs7565053	A	T	0.128	0.023	1.48E-08	12058
genus.Streptococcus.id.1853	rs2559847	C	T	-0.130	0.023	1.47E-08	15229
genus.Bifidobacterium.id.436	rs16832138	G	A	0.106	0.018	1.47E-08	14778
genus.Streptococcus.id.1853	rs11522881	C	T	-0.130	0.023	1.46E-08	15120

genus.Bifidobacterium.id.436	rs7608980	G	A	0.106	0.018	1.42E-08	14778
genus.Streptococcus.id.1853	rs4374023	G	A	-0.130	0.022	1.37E-08	15226
genus.Bifidobacterium.id.436	rs9941547	G	A	0.072	0.013	1.37E-08	14673
genus.Streptococcus.id.1853	rs11837200	T	C	-0.129	0.022	1.34E-08	15229
genus.Tyzzereella3.id.11335	rs55784632	C	T	0.127	0.022	1.34E-08	4948
genus.Bifidobacterium.id.436	rs56263017	T	C	0.106	0.018	1.34E-08	14778
genus.Bifidobacterium.id.436	rs56369660	A	G	0.091	0.017	1.33E-08	14778
genus.Enterorhabdus.id.820	rs2391050	T	A	-0.093	0.016	1.32E-08	7524
genus.Streptococcus.id.1853	rs12370758	T	C	-0.132	0.023	1.32E-08	15117
genus.Bifidobacterium.id.436	rs4954242	A	G	0.094	0.017	1.31E-08	14778
genus.Streptococcus.id.1853	rs117585280	T	A	-0.132	0.023	1.31E-08	15117
genus.Bifidobacterium.id.436	rs4954568	T	A	0.072	0.013	1.31E-08	14778
genus.Streptococcus.id.1853	rs11110145	A	T	-0.117	0.020	1.30E-08	15633
genus.Peptococcus.id.2037	rs57905414	A	T	0.185	0.032	1.30E-08	5483
genus.Bifidobacterium.id.436	rs11889843	G	A	0.092	0.017	1.28E-08	14778
genus.Erysipelatoclostridium.id.11381	rs9914071	T	C	-0.082	0.014	1.28E-08	9783
genus.Streptococcus.id.1853	rs79728246	T	C	-0.130	0.022	1.25E-08	15229
genus.Bifidobacterium.id.436	rs3769002	T	C	0.106	0.018	1.24E-08	14778
genus.Streptococcus.id.1853	rs11835118	C	T	-0.130	0.022	1.20E-08	15229
genus.Bifidobacterium.id.436	rs6706466	A	G	0.091	0.017	1.17E-08	14778
genus.Streptococcus.id.1853	rs12372388	G	A	-0.130	0.022	1.16E-08	15229
genus.Bifidobacterium.id.436	rs10179271	T	C	0.072	0.013	1.12E-08	14778
genus.Bifidobacterium.id.436	rs2164332	G	C	0.101	0.018	1.11E-08	14778
genus.Streptococcus.id.1853	rs7959495	A	C	-0.131	0.022	1.10E-08	15229
genus.Peptococcus.id.2037	rs75754569	G	C	0.181	0.032	1.10E-08	5481
genus.Bifidobacterium.id.436	rs10928529	G	A	0.093	0.017	1.09E-08	14778
genus.Bifidobacterium.id.436	rs11900832	C	T	0.093	0.017	1.09E-08	14778
genus.Bifidobacterium.id.436	rs3806502	C	T	0.093	0.017	1.09E-08	14778
genus.Bifidobacterium.id.436	rs7322849	C	T	0.112	0.020	1.08E-08	14778
genus.Bifidobacterium.id.436	rs1401687	G	C	0.072	0.013	1.08E-08	14778
genus.Bifidobacterium.id.436	rs7605229	C	T	0.093	0.017	1.07E-08	14778

genus.Bifidobacterium.id.436	rs17293519	A	G	0.091	0.017	1.05E-08	14778
genus.Streptococcus.id.1853	rs12369047	T	G	-0.118	0.020	1.05E-08	15634
genus.Eubacteriumcoprostanoligenesgroup.id.11375	rs17159861	T	C	0.096	0.017	1.04E-08	17380
genus.Bifidobacterium.id.436	rs10496736	C	G	0.124	0.022	1.03E-08	12157
genus.Tyzzereella3.id.11335	rs4315451	C	T	0.128	0.022	1.03E-08	4948
genus.Streptococcus.id.1853	rs75132655	T	G	-0.117	0.020	1.02E-08	15741
genus.Bifidobacterium.id.436	rs3213871	C	T	0.107	0.018	1.02E-08	14778
genus.Streptococcus.id.1853	rs17029986	T	G	-0.127	0.022	1.01E-08	15228
genus.Streptococcus.id.1853	rs17030023	A	T	-0.132	0.023	9.85E-09	15229
genus.Streptococcus.id.1853	rs7294396	C	G	-0.127	0.022	9.82E-09	15228
genus.Streptococcus.id.1853	rs7313123	T	C	-0.117	0.020	9.80E-09	15741
genus.Bifidobacterium.id.436	rs60433564	A	C	0.124	0.022	9.61E-09	12157
genus.Bifidobacterium.id.436	rs2305248	A	G	0.092	0.017	9.52E-09	14778
genus.Bifidobacterium.id.436	rs2874834	A	G	0.079	0.013	9.46E-09	14778
genus.Streptococcus.id.1853	rs17851246	G	A	-0.132	0.023	9.29E-09	15120
genus.Bifidobacterium.id.436	rs6749119	C	G	0.091	0.017	9.10E-09	14778
genus.Bifidobacterium.id.436	rs7563997	T	A	0.093	0.017	9.05E-09	14777
genus.Streptococcus.id.1853	rs11110264	A	G	-0.133	0.023	9.01E-09	15117
genus.Bifidobacterium.id.436	rs7597802	A	T	0.093	0.017	8.96E-09	14778
genus.Streptococcus.id.1853	rs116878826	T	C	-0.131	0.022	8.84E-09	15117
genus.Bifidobacterium.id.436	rs11897204	T	C	0.092	0.017	8.84E-09	14778
genus.Streptococcus.id.1853	rs11110276	G	T	-0.131	0.022	8.78E-09	15229
genus.Bifidobacterium.id.436	rs4954513	G	A	0.107	0.018	8.77E-09	14778
genus.Enterorhabdus.id.820	rs11098866	G	A	-0.094	0.016	8.63E-09	7524
genus.Bifidobacterium.id.436	rs4954213	G	T	0.093	0.017	8.62E-09	14778
genus.Bifidobacterium.id.436	rs13408096	G	T	0.093	0.017	8.50E-09	14778
genus.Bifidobacterium.id.436	rs6742013	T	C	0.094	0.017	8.37E-09	14778
genus.Erysipelatoclostridium.id.11381	rs7211274	C	T	-0.083	0.014	8.02E-09	9783
genus.Bifidobacterium.id.436	rs6737635	G	T	0.093	0.017	7.96E-09	14778
genus.Bifidobacterium.id.436	rs4954567	G	T	0.073	0.013	7.93E-09	14778
genus.Streptococcus.id.1853	rs74348118	T	C	-0.132	0.022	7.92E-09	15229

genus.Bifidobacterium.id.436	rs4954221	G	A	0.092	0.017	7.81E-09	14778
genus.Faecalibacterium.id.2057	rs12320842	G	C	0.095	0.016	7.57E-09	17638
genus.Bifidobacterium.id.436	rs6709763	C	A	0.094	0.017	7.39E-09	14778
genus.Bifidobacterium.id.436	rs16832156	G	A	0.103	0.018	7.28E-09	14777
genus.Bifidobacterium.id.436	rs309126	T	C	0.101	0.017	7.22E-09	14778
genus.Bifidobacterium.id.436	rs13410870	G	A	0.092	0.017	7.17E-09	14778
genus.Enterorhabdus.id.820	rs1355109	T	C	-0.095	0.016	7.09E-09	7524
genus.Ruminococcus1.id.11373	rs895733	T	G	-0.064	0.011	7.05E-09	16607
genus.Bifidobacterium.id.436	rs3754692	T	C	0.080	0.013	6.80E-09	14778
genus.Bifidobacterium.id.436	rs1900741	C	T	0.086	0.014	6.78E-09	14778
genus.Bifidobacterium.id.436	rs61663334	A	G	0.091	0.017	6.77E-09	14777
genus.Tyzzereella3.id.11335	rs55725239	A	T	0.129	0.022	6.75E-09	4948
genus.Streptococcus.id.1853	rs78843973	C	T	-0.134	0.023	6.72E-09	15120
genus.Enterorhabdus.id.820	rs10857113	T	C	-0.094	0.016	6.62E-09	7524
genus.Streptococcus.id.1853	rs9669453	G	A	-0.133	0.023	6.45E-09	15229
genus.Streptococcus.id.1853	rs17030005	C	T	-0.133	0.023	6.37E-09	15229
genus.Bifidobacterium.id.436	rs16832275	C	G	0.103	0.018	6.33E-09	14778
genus.Bifidobacterium.id.436	rs11888521	G	C	0.092	0.017	5.66E-09	14777
genus.Ruminococcus1.id.11373	rs10769159	C	G	-0.064	0.011	5.29E-09	16603
genus.Bifidobacterium.id.436	rs6739713	A	G	0.080	0.013	5.29E-09	14778
genus.Bifidobacterium.id.436	rs10928513	C	T	0.070	0.012	5.22E-09	14777
genus.Bifidobacterium.id.436	rs11892750	G	A	0.095	0.017	5.09E-09	14778
genus.Bifidobacterium.id.436	rs4494812	A	G	0.093	0.017	5.01E-09	14777
genus.Bifidobacterium.id.436	rs62168934	A	G	0.095	0.017	4.95E-09	14778
genus.Streptococcus.id.1853	rs78017832	G	T	-0.135	0.023	4.94E-09	15120
genus.Bifidobacterium.id.436	rs2290518	G	A	0.093	0.017	4.93E-09	14778
genus.Streptococcus.id.1853	rs117905191	G	A	-0.135	0.023	4.85E-09	15120
genus.Streptococcus.id.1853	rs11110268	T	C	-0.135	0.023	4.77E-09	15120
genus.Bifidobacterium.id.436	rs3768998	G	T	0.106	0.018	4.64E-09	14777
genus.Bifidobacterium.id.436	rs4954226	T	C	0.095	0.017	4.61E-09	14778
genus.Bifidobacterium.id.436	rs16831264	G	C	0.094	0.017	4.61E-09	14778

genus.Erysipelatoclostridium.id.11381	rs7221249	G	A	0.084	0.014	4.31E-09	9781
genus.Bifidobacterium.id.436	rs60350840	A	G	0.095	0.017	4.18E-09	14778
genus.Bifidobacterium.id.436	rs7565149	T	A	0.095	0.017	4.09E-09	14778
genus.Bifidobacterium.id.436	rs10174944	C	T	0.095	0.017	4.08E-09	14778
genus.Bifidobacterium.id.436	rs6430561	C	T	0.094	0.017	4.07E-09	14778
genus.Bifidobacterium.id.436	rs56174523	A	C	0.095	0.017	4.02E-09	14778
genus.Bifidobacterium.id.436	rs58327215	G	C	0.094	0.017	3.91E-09	14778
genus.Enterorhabdus.id.820	rs12647099	A	G	-0.096	0.016	3.90E-09	7524
genus.Bifidobacterium.id.436	rs6741481	A	G	0.094	0.017	3.79E-09	14778
genus.Bifidobacterium.id.436	rs4953946	T	G	0.095	0.017	3.78E-09	14778
genus.Bifidobacterium.id.436	rs7603805	A	G	0.095	0.017	3.75E-09	14778
genus.Bifidobacterium.id.436	rs10209482	A	C	0.096	0.017	3.75E-09	14778
genus.Streptococcus.id.1853	rs11110283	C	A	-0.136	0.023	3.74E-09	15120
genus.Tyzzereella3.id.11335	rs67476743	G	T	0.132	0.022	3.74E-09	4948
genus.Bifidobacterium.id.436	rs16831498	G	C	0.096	0.017	3.74E-09	14778
genus.Bifidobacterium.id.436	rs11888951	T	C	0.095	0.017	3.73E-09	14778
genus.Bifidobacterium.id.436	rs13427494	G	A	0.096	0.017	3.69E-09	14778
genus.Bifidobacterium.id.436	rs13413872	G	T	0.095	0.017	3.64E-09	14778
genus.Bifidobacterium.id.436	rs7601683	C	T	0.096	0.017	3.63E-09	14778
genus.Bifidobacterium.id.436	rs58426504	T	G	0.094	0.017	3.62E-09	14778
genus.Bifidobacterium.id.436	rs2017831	C	T	0.096	0.017	3.57E-09	14778
genus.Bifidobacterium.id.436	rs4954220	C	A	0.095	0.017	3.38E-09	14778
genus.Bifidobacterium.id.436	rs61087958	C	T	0.095	0.017	3.38E-09	14778
genus.Streptococcus.id.1853	rs80243853	A	G	-0.136	0.023	3.37E-09	15229
genus.Bifidobacterium.id.436	rs6760553	A	G	0.096	0.017	3.31E-09	14778
genus.Bifidobacterium.id.436	rs10186594	A	G	0.096	0.017	3.30E-09	14778
genus.Bifidobacterium.id.436	rs11898045	T	C	0.094	0.017	3.25E-09	14778
genus.Bifidobacterium.id.436	rs4954212	A	G	0.096	0.017	3.18E-09	14777
genus.Bifidobacterium.id.436	rs13402112	A	C	0.096	0.017	3.09E-09	14778
genus.Bifidobacterium.id.436	rs11890844	A	G	0.096	0.017	3.08E-09	14778
genus.Bifidobacterium.id.436	rs7565268	T	C	0.096	0.017	3.07E-09	14778

genus.Bifidobacterium.id.436	rs7601696	C	A	0.096	0.017	3.07E-09	14778
genus.Enterorhabdus.id.820	rs11098863	A	T	-0.097	0.016	3.06E-09	7524
genus.Bifidobacterium.id.436	rs13402101	T	A	0.096	0.017	3.02E-09	14778
genus.Bifidobacterium.id.436	rs13399376	A	G	0.096	0.017	3.02E-09	14778
genus.Bifidobacterium.id.436	rs7573600	G	C	0.095	0.017	2.97E-09	14778
genus.Bifidobacterium.id.436	rs4954214	C	T	0.096	0.017	2.97E-09	14778
genus.Streptococcus.id.1853	rs11110282	G	A	-0.135	0.022	2.97E-09	15229
genus.Streptococcus.id.1853	rs12368593	A	C	-0.136	0.023	2.91E-09	15229
genus.Bifidobacterium.id.436	rs921859	A	G	0.096	0.017	2.90E-09	14778
genus.Bifidobacterium.id.436	rs13409400	A	C	0.096	0.017	2.88E-09	14778
genus.Bifidobacterium.id.436	rs56903548	C	T	0.095	0.017	2.85E-09	14778
genus.Bifidobacterium.id.436	rs62168941	C	T	0.096	0.017	2.78E-09	14778
genus.Bifidobacterium.id.436	rs57829242	A	G	0.097	0.017	2.78E-09	14778
genus.Bifidobacterium.id.436	rs11884903	T	C	0.097	0.017	2.77E-09	14778
genus.Bifidobacterium.id.436	rs7422031	C	T	0.095	0.017	2.75E-09	14778
genus.Bifidobacterium.id.436	rs4640444	T	C	0.094	0.017	2.72E-09	14777
genus.Bifidobacterium.id.436	rs10182750	T	C	0.096	0.017	2.67E-09	14778
genus.Bifidobacterium.id.436	rs7577258	G	A	0.096	0.017	2.63E-09	14778
genus.Bifidobacterium.id.436	rs4645053	T	A	0.094	0.017	2.63E-09	14777
genus.Bifidobacterium.id.436	rs4954217	C	T	0.096	0.017	2.62E-09	14778
genus.Streptococcus.id.1853	rs11110281	C	T	-0.138	0.023	2.58E-09	15120
genus.Bifidobacterium.id.436	rs58697996	G	A	0.096	0.017	2.58E-09	14778
genus.Bifidobacterium.id.436	rs4953947	A	C	0.096	0.017	2.45E-09	14778
genus.Bifidobacterium.id.436	rs10167809	C	T	0.096	0.017	2.41E-09	14778
genus.Bifidobacterium.id.436	rs10167884	C	T	0.096	0.017	2.41E-09	14778
genus.Bifidobacterium.id.436	rs4953948	T	G	0.096	0.017	2.38E-09	14778
genus.Bifidobacterium.id.436	rs62168942	T	C	0.097	0.017	2.37E-09	14778
genus.Bifidobacterium.id.436	rs6721838	A	G	0.096	0.017	2.35E-09	14778
genus.Bifidobacterium.id.436	rs4954215	G	A	0.097	0.017	2.32E-09	14778
genus.Bifidobacterium.id.436	rs1551497	T	C	0.097	0.017	2.25E-09	14778
genus.Bifidobacterium.id.436	rs7371606	A	G	0.078	0.013	2.20E-09	14666

genus.Bifidobacterium.id.436	rs11903663	A	G	0.095	0.017	2.16E-09	14777
genus.Bifidobacterium.id.436	rs7568525	G	A	0.096	0.017	2.15E-09	14778
genus.Bifidobacterium.id.436	rs4954216	G	A	0.097	0.017	2.15E-09	14778
genus.Bifidobacterium.id.436	rs10167901	C	T	0.097	0.017	2.14E-09	14778
genus.Bifidobacterium.id.436	rs10208624	C	T	0.096	0.017	2.03E-09	14778
genus.Bifidobacterium.id.436	rs13389481	C	A	0.099	0.017	1.88E-09	14777
genus.Bifidobacterium.id.436	rs4953945	C	G	0.099	0.017	1.61E-09	14777
genus.Bifidobacterium.id.436	rs3820794	T	C	0.085	0.014	1.49E-09	14778
genus.Bifidobacterium.id.436	rs925966	G	C	0.079	0.013	1.45E-09	14666
genus.Bifidobacterium.id.436	rs10193348	A	G	0.097	0.017	1.36E-09	14778
genus.Bifidobacterium.id.436	rs2874739	C	T	0.097	0.017	1.32E-09	14778
genus.Bifidobacterium.id.436	rs4346445	A	C	0.097	0.017	1.32E-09	14777
genus.Bifidobacterium.id.436	rs2278544	G	A	0.085	0.014	1.23E-09	14778
genus.Bifidobacterium.id.436	rs12328663	T	C	0.098	0.017	9.93E-10	14778
genus.Bifidobacterium.id.436	rs12616520	T	A	0.086	0.014	9.38E-10	14778
genus.Bifidobacterium.id.436	rs6747073	T	C	0.082	0.013	9.04E-10	14776
genus.Bifidobacterium.id.436	rs1030764	T	C	0.086	0.014	8.26E-10	14778
genus.Bifidobacterium.id.436	rs6704561	C	T	0.081	0.013	7.90E-10	14666
genus.Bifidobacterium.id.436	rs2304599	G	C	0.087	0.014	6.29E-10	14778
genus.Bifidobacterium.id.436	rs998451	A	G	0.073	0.012	6.17E-10	14778
genus.Bifidobacterium.id.436	rs9287442	G	A	0.086	0.014	5.92E-10	14778
genus.Bifidobacterium.id.436	rs2016636	G	A	0.083	0.013	5.45E-10	14778
genus.Bifidobacterium.id.436	rs10188066	A	G	0.087	0.014	5.21E-10	14778
genus.Bifidobacterium.id.436	rs6760329	G	A	0.087	0.014	5.08E-10	14778
genus.Bifidobacterium.id.436	rs10928545	G	A	0.087	0.014	4.26E-10	14778
genus.Bifidobacterium.id.436	rs6714750	A	G	0.085	0.013	3.86E-10	14666
genus.Bifidobacterium.id.436	rs1374329	A	G	0.086	0.014	3.44E-10	14778
genus.Bifidobacterium.id.436	rs935613	C	T	0.084	0.013	3.02E-10	14778
genus.Bifidobacterium.id.436	rs62160860	G	C	0.113	0.018	2.18E-10	14775
genus.Bifidobacterium.id.436	rs1530559	A	G	0.076	0.012	2.11E-10	14666
genus.Bifidobacterium.id.436	rs10187402	C	G	0.085	0.013	1.76E-10	14774

genus.Bifidobacterium.id.436	rs2680880	T	A	0.080	0.012	1.69E-10	14778
genus.Bifidobacterium.id.436	rs2278683	A	C	0.113	0.018	1.48E-10	14777
genus.Bifidobacterium.id.436	rs4954551	G	A	0.113	0.018	1.48E-10	14778
genus.Bifidobacterium.id.436	rs1375132	A	G	0.086	0.013	1.40E-10	14776
genus.Bifidobacterium.id.436	rs6738563	G	T	0.076	0.012	1.12E-10	14775
genus.Bifidobacterium.id.436	rs7587285	T	C	0.113	0.018	1.11E-10	14778
genus.Bifidobacterium.id.436	rs1869829	A	G	0.086	0.013	9.60E-11	14778
genus.Bifidobacterium.id.436	rs6723108	G	T	0.077	0.012	8.12E-11	14778
genus.Bifidobacterium.id.436	rs11893318	T	C	0.115	0.018	6.54E-11	14777
genus.Bifidobacterium.id.436	rs2322659	C	T	0.090	0.013	4.47E-11	14778
genus.Bifidobacterium.id.436	rs13413639	C	A	0.089	0.013	4.36E-11	14778
genus.Bifidobacterium.id.436	rs12619365	C	T	0.090	0.013	3.77E-11	14778
genus.Bifidobacterium.id.436	rs10192827	A	G	0.090	0.013	3.74E-11	14777
genus.Bifidobacterium.id.436	rs7581382	T	C	-0.091	0.015	3.03E-11	13806
genus.Bifidobacterium.id.436	rs4954276	A	G	0.090	0.013	2.98E-11	14778
genus.Bifidobacterium.id.436	rs4954279	G	A	0.090	0.013	2.84E-11	14778
genus.Bifidobacterium.id.436	rs7608045	T	C	0.090	0.013	2.42E-11	14778
genus.Bifidobacterium.id.436	rs1979033	G	A	0.078	0.012	2.40E-11	14774
genus.Bifidobacterium.id.436	rs12469709	T	C	0.091	0.013	2.24E-11	14778
genus.Bifidobacterium.id.436	rs10928542	G	A	0.090	0.013	2.10E-11	14778
genus.Bifidobacterium.id.436	rs12994270	A	T	0.091	0.013	2.01E-11	14778
genus.Bifidobacterium.id.436	rs656326	A	C	0.091	0.013	1.94E-11	14778
genus.Bifidobacterium.id.436	rs6715856	T	C	0.091	0.013	1.83E-11	14778
genus.Bifidobacterium.id.436	rs10173394	T	C	0.092	0.013	1.78E-11	14778
genus.Bifidobacterium.id.436	rs313522	T	A	0.091	0.013	1.59E-11	14778
genus.Bifidobacterium.id.436	rs3213889	G	A	0.092	0.013	1.58E-11	14778
genus.Bifidobacterium.id.436	rs313523	G	A	0.091	0.013	1.54E-11	14778
genus.Bifidobacterium.id.436	rs1470457	A	G	0.092	0.013	1.53E-11	14778
genus.Bifidobacterium.id.436	rs6755383	C	T	0.091	0.013	1.49E-11	14778
genus.Bifidobacterium.id.436	rs11679508	T	A	0.092	0.013	1.40E-11	14778
genus.Bifidobacterium.id.436	rs2034276	A	T	0.091	0.013	1.39E-11	14778

genus.Bifidobacterium.id.436	rs4954280	A	G	0.091	0.013	1.38E-11	14778
genus.Bifidobacterium.id.436	rs6720287	A	G	0.091	0.013	1.36E-11	14778
genus.Bifidobacterium.id.436	rs1446584	A	G	0.091	0.013	1.35E-11	14778
genus.Bifidobacterium.id.436	rs12998387	G	A	0.092	0.013	1.22E-11	14778
genus.Bifidobacterium.id.436	rs10202489	A	G	0.092	0.013	1.22E-11	14778
genus.Bifidobacterium.id.436	rs313517	A	G	0.092	0.013	1.19E-11	14778
genus.Bifidobacterium.id.436	rs932206	T	C	0.083	0.012	1.18E-11	14666
genus.Bifidobacterium.id.436	rs1438307	T	G	0.092	0.013	1.17E-11	14778
genus.Bifidobacterium.id.436	rs13412397	A	G	0.092	0.013	1.03E-11	14778
genus.Bifidobacterium.id.436	rs313524	C	T	0.092	0.013	1.03E-11	14778
genus.Bifidobacterium.id.436	rs10195620	T	A	0.093	0.013	1.03E-11	14778
genus.Bifidobacterium.id.436	rs28453840	A	G	0.093	0.013	9.95E-12	14778
genus.Bifidobacterium.id.436	rs7355359	T	C	0.092	0.013	9.81E-12	14778
genus.Bifidobacterium.id.436	rs71348715	T	G	0.093	0.013	9.30E-12	14778
genus.Bifidobacterium.id.436	rs313518	C	T	0.092	0.013	8.83E-12	14778
genus.Bifidobacterium.id.436	rs11684545	T	G	0.093	0.013	8.79E-12	14778
genus.Bifidobacterium.id.436	rs1438304	G	A	0.093	0.013	8.41E-12	14778
genus.Bifidobacterium.id.436	rs6430589	C	G	0.093	0.013	8.22E-12	14777
genus.Bifidobacterium.id.436	rs10928546	T	C	0.093	0.013	7.97E-12	14778
genus.Bifidobacterium.id.436	rs12998016	T	C	0.093	0.013	7.30E-12	14778
genus.Bifidobacterium.id.436	rs313528	G	A	0.093	0.013	7.01E-12	14778
genus.Bifidobacterium.id.436	rs313526	C	T	0.093	0.013	6.94E-12	14778
genus.Bifidobacterium.id.436	rs313519	A	C	0.093	0.013	6.68E-12	14778
genus.Bifidobacterium.id.436	rs1011361	A	G	0.093	0.013	6.57E-12	14778
genus.Bifidobacterium.id.436	rs71348714	A	G	0.093	0.013	6.39E-12	14778
genus.Bifidobacterium.id.436	rs1438305	G	C	0.093	0.013	6.39E-12	14778
genus.Bifidobacterium.id.436	rs2082729	T	C	0.094	0.013	5.73E-12	14778
genus.Bifidobacterium.id.436	rs11679933	T	G	0.089	0.013	4.80E-12	14774
genus.Bifidobacterium.id.436	rs3739020	T	G	0.095	0.013	3.84E-12	14775
genus.Bifidobacterium.id.436	rs748841	T	C	0.094	0.013	2.11E-12	14778
genus.Bifidobacterium.id.436	rs2164210	C	T	0.094	0.013	1.90E-12	14778

genus.Bifidobacterium.id.436	rs11693502	T	C	0.090	0.013	1.71E-12	14777
genus.Bifidobacterium.id.436	rs2322660	T	C	0.094	0.013	1.60E-12	14778
genus.Bifidobacterium.id.436	rs6742283	G	A	0.095	0.013	1.50E-12	14776
genus.Bifidobacterium.id.436	rs12988076	A	C	0.095	0.013	1.47E-12	14778
genus.Bifidobacterium.id.436	rs17261772	T	C	0.096	0.013	1.25E-12	14666
genus.Bifidobacterium.id.436	rs745500	A	G	0.095	0.013	1.16E-12	14778
genus.Bifidobacterium.id.436	rs892715	C	T	0.095	0.013	1.08E-12	14778
genus.Bifidobacterium.id.436	rs6719488	T	G	0.095	0.013	1.04E-12	14778
genus.Bifidobacterium.id.436	rs3769005	G	C	0.095	0.013	9.71E-13	14778
genus.Bifidobacterium.id.436	rs2011946	A	C	0.092	0.013	5.60E-13	14774
genus.Bifidobacterium.id.436	rs3754686	C	T	0.096	0.013	5.30E-13	14778
genus.Bifidobacterium.id.436	rs12620033	G	C	0.097	0.013	3.36E-13	14778
genus.Bifidobacterium.id.436	rs749873	T	C	0.093	0.012	3.09E-13	14778
genus.Bifidobacterium.id.436	rs2236783	A	G	0.098	0.013	2.16E-13	14778
genus.Bifidobacterium.id.436	rs12475139	T	A	0.097	0.013	1.33E-13	14666
genus.Bifidobacterium.id.436	rs4988183	T	C	0.101	0.013	8.17E-14	14778
genus.Bifidobacterium.id.436	rs4954490	A	G	0.100	0.013	8.13E-14	14774
genus.Bifidobacterium.id.436	rs309149	C	T	0.102	0.013	4.14E-14	14778
genus.Bifidobacterium.id.436	rs309137	T	C	0.100	0.013	4.04E-14	14778
genus.Bifidobacterium.id.436	rs11681248	T	C	0.096	0.012	3.09E-14	14774
genus.Bifidobacterium.id.436	rs309164	T	C	0.103	0.013	1.85E-14	14778
genus.Bifidobacterium.id.436	rs1561277	C	A	0.100	0.013	1.60E-14	14666
genus.Bifidobacterium.id.436	rs309125	C	T	0.102	0.013	1.11E-14	14778
genus.Bifidobacterium.id.436	rs6716536	C	T	0.101	0.013	7.72E-15	14666
genus.Bifidobacterium.id.436	rs632632	T	C	0.103	0.013	6.21E-15	14778
genus.Bifidobacterium.id.436	rs12615624	A	G	0.105	0.013	5.81E-15	14778
genus.Bifidobacterium.id.436	rs6759321	G	T	0.102	0.013	4.60E-15	14666
genus.Bifidobacterium.id.436	rs309180	A	G	0.105	0.013	3.11E-15	14778
genus.Bifidobacterium.id.436	rs309134	G	A	0.107	0.013	1.32E-15	14778
genus.Bifidobacterium.id.436	rs218174	A	G	0.106	0.013	1.06E-15	14777
genus.Bifidobacterium.id.436	rs13023281	T	C	-0.104	0.013	7.23E-16	13806

genus.Bifidobacterium.id.436	rs309168	C	T	0.107	0.013	6.85E-16	14778
genus.Bifidobacterium.id.436	rs309160	C	T	0.108	0.013	3.68E-16	14778
genus.Bifidobacterium.id.436	rs13404551	T	C	0.110	0.013	6.82E-17	14776
genus.Bifidobacterium.id.436	rs687670	T	C	0.111	0.013	2.60E-17	14778
genus.Bifidobacterium.id.436	rs36084664	A	G	-0.111	0.014	7.39E-18	13806
genus.Bifidobacterium.id.436	rs1446585	A	G	0.114	0.013	1.94E-18	14666
genus.Bifidobacterium.id.436	rs12465802	G	A	0.112	0.013	1.73E-18	14778
genus.Bifidobacterium.id.436	rs6730157	A	G	0.111	0.013	1.72E-18	14778
genus.Bifidobacterium.id.436	rs1375131	T	C	0.112	0.013	1.02E-18	14777
genus.Bifidobacterium.id.436	rs7570971	C	A	0.113	0.013	2.01E-19	14666
genus.Bifidobacterium.id.436	rs6754311	T	C	0.117	0.013	6.96E-20	14777
genus.Bifidobacterium.id.436	rs4988235	A	G	0.119	0.013	2.49E-20	14778
genus.Bifidobacterium.id.436	rs182549	T	C	0.120	0.013	1.28E-20	14778

Our study selected single nucleotide polymorphisms (SNPs) at thresholds $p < 1 \times 10^{-5}$ as genetic instruments, and variants for the linkage disequilibrium (LD, $R^2 < 0.001$) were excluded and proxy SNPs ($R^2 > 0.9$) that were not available in the GWAS dataset were found.

Supplementary Table 3. Genome-wide significant and independent SNPs that were used as instruments for gut metabolites.

Trait	SNPs	Effect Allele	Non-effect Allele	Beta	Standard Error	p
2-aminobutyrate	rs17606458	A	C	0.0077	0.0017	9.93E-06
2-aminobutyrate	rs1269621	A	G	-0.0078	0.0018	9.80E-06
2-aminobutyrate	rs2047601	A	G	0.0078	0.0018	9.77E-06
2-aminobutyrate	rs582207	T	C	0.0078	0.0018	9.71E-06
2-aminobutyrate	rs2436152	A	G	-0.0078	0.0018	9.69E-06
2-aminobutyrate	rs633191	T	C	0.0078	0.0018	9.66E-06
2-aminobutyrate	rs2290101	C	G	0.0105	0.0024	9.64E-06
2-aminobutyrate	rs8046716	T	C	-0.0079	0.0018	9.60E-06
2-aminobutyrate	rs1613047	A	G	-0.0078	0.0018	9.44E-06
2-aminobutyrate	rs2853187	A	T	-0.0078	0.0018	9.42E-06
2-aminobutyrate	rs220835	A	G	-0.0079	0.0018	9.40E-06
2-aminobutyrate	rs879138	C	G	0.0079	0.0018	9.30E-06
2-aminobutyrate	rs11001345	A	G	0.0119	0.0027	9.21E-06
2-aminobutyrate	rs17171012	A	C	0.0233	0.0053	9.08E-06
2-aminobutyrate	rs6970514	A	G	-0.0233	0.0053	9.02E-06
2-aminobutyrate	rs6844227	T	C	-0.0078	0.0018	9.02E-06
2-aminobutyrate	rs506718	A	T	-0.0078	0.0018	8.99E-06
2-aminobutyrate	rs754410	A	G	-0.0079	0.0018	8.78E-06
2-aminobutyrate	rs11215584	A	G	0.0079	0.0018	8.77E-06
2-aminobutyrate	rs4685337	T	C	-0.0078	0.0018	8.64E-06
2-aminobutyrate	rs860354	A	T	-0.0079	0.0018	8.35E-06
2-aminobutyrate	rs12714707	A	C	0.0078	0.0018	8.32E-06
2-aminobutyrate	rs11713801	A	G	-0.0078	0.0018	8.32E-06
2-aminobutyrate	rs7652181	A	G	0.0078	0.0018	8.32E-06
2-aminobutyrate	rs2291702	T	C	-0.0078	0.0017	8.16E-06

2-aminobutyrate	rs4140738	A	G	0.0143	0.0032	7.98E-06
2-aminobutyrate	rs10941228	C	G	-0.0078	0.0017	7.95E-06
2-aminobutyrate	rs7522303	A	T	-0.0079	0.0018	7.91E-06
2-aminobutyrate	rs7286668	A	C	-0.0113	0.0025	7.86E-06
2-aminobutyrate	rs6425496	T	C	-0.0079	0.0018	7.82E-06
2-aminobutyrate	rs558426	C	G	0.0078	0.0018	7.74E-06
2-aminobutyrate	rs1319775	T	C	-0.0078	0.0018	7.72E-06
2-aminobutyrate	rs935622	A	G	0.0078	0.0018	7.56E-06
2-aminobutyrate	rs959645	T	C	-0.0078	0.0018	7.51E-06
2-aminobutyrate	rs2291699	A	G	0.0079	0.0018	7.24E-06
2-aminobutyrate	rs553935	A	G	0.0079	0.0018	7.23E-06
2-aminobutyrate	rs531531	C	G	0.0079	0.0018	7.21E-06
2-aminobutyrate	rs7163817	T	C	0.008	0.0018	7.12E-06
2-aminobutyrate	rs2497138	A	C	0.0146	0.0032	7.09E-06
2-aminobutyrate	rs11242200	A	G	0.0117	0.0026	7.07E-06
2-aminobutyrate	rs2651929	T	C	-0.008	0.0018	7.04E-06
2-aminobutyrate	rs1448551	A	T	0.0079	0.0018	6.89E-06
2-aminobutyrate	rs9835277	C	G	0.0079	0.0018	6.89E-06
2-aminobutyrate	rs2230532	T	C	0.009	0.002	6.80E-06
2-aminobutyrate	rs7957100	T	C	0.0079	0.0018	6.71E-06
2-aminobutyrate	rs6720363	T	G	0.0142	0.0031	6.70E-06
2-aminobutyrate	rs12230817	A	T	0.008	0.0018	6.53E-06
2-aminobutyrate	rs7582468	A	C	0.0079	0.0018	6.52E-06
2-aminobutyrate	rs10516806	T	G	0.0105	0.0023	6.50E-06
2-aminobutyrate	rs11957499	T	C	-0.0118	0.0026	6.22E-06
2-aminobutyrate	rs9449802	T	C	-0.0187	0.0041	6.22E-06
2-aminobutyrate	rs1504443	T	C	0.0079	0.0018	6.13E-06
2-aminobutyrate	rs10189501	A	G	0.008	0.0018	6.04E-06

2-aminobutyrate	rs533209	T	C	-0.0079	0.0018	6.03E-06
2-aminobutyrate	rs1269634	A	G	0.0079	0.0018	5.98E-06
2-aminobutyrate	rs17101315	T	C	-0.0284	0.0063	5.95E-06
2-aminobutyrate	rs13013035	A	G	0.0145	0.0032	5.94E-06
2-aminobutyrate	rs13012644	T	C	0.0145	0.0032	5.93E-06
2-aminobutyrate	rs7113167	T	C	-0.0079	0.0018	5.85E-06
2-aminobutyrate	rs10499574	T	C	0.008	0.0018	5.81E-06
2-aminobutyrate	rs4722590	A	C	0.008	0.0018	5.80E-06
2-aminobutyrate	rs10464319	T	C	0.008	0.0018	5.80E-06
2-aminobutyrate	rs10490210	A	G	0.0144	0.0032	5.76E-06
2-aminobutyrate	rs3907482	A	C	-0.0079	0.0017	5.67E-06
2-aminobutyrate	rs11742775	T	C	-0.0118	0.0026	5.65E-06
2-aminobutyrate	rs7973882	A	G	0.0079	0.0017	5.64E-06
2-aminobutyrate	rs12231312	T	C	0.0079	0.0017	5.62E-06
2-aminobutyrate	rs13032928	A	C	0.0145	0.0032	5.61E-06
2-aminobutyrate	rs13033058	A	G	0.0145	0.0032	5.60E-06
2-aminobutyrate	rs472415	C	G	0.008	0.0018	5.59E-06
2-aminobutyrate	rs505621	A	G	0.008	0.0018	5.52E-06
2-aminobutyrate	rs666845	T	C	-0.008	0.0018	5.52E-06
2-aminobutyrate	rs11233191	T	C	0.008	0.0018	5.31E-06
2-aminobutyrate	rs12228823	A	G	0.008	0.0018	5.31E-06
2-aminobutyrate	rs10501534	T	G	-0.008	0.0018	5.29E-06
2-aminobutyrate	rs13288466	T	C	-0.0157	0.0034	5.26E-06
2-aminobutyrate	rs758132	A	C	0.008	0.0018	5.18E-06
2-aminobutyrate	rs2497133	T	C	0.0167	0.0037	5.11E-06
2-aminobutyrate	rs11070998	T	C	-0.099	0.0217	4.87E-06
2-aminobutyrate	rs4900883	C	G	-0.0081	0.0018	4.70E-06
2-aminobutyrate	rs13027905	A	G	-0.0146	0.0032	4.66E-06

2-aminobutyrate	rs4758859	A	G	-0.008	0.0017	4.64E-06
2-aminobutyrate	rs2497132	C	G	-0.0173	0.0038	4.56E-06
2-aminobutyrate	rs1493325	T	C	0.008	0.0017	4.45E-06
2-aminobutyrate	rs17595325	T	C	-0.008	0.0017	4.45E-06
2-aminobutyrate	rs1001872	A	G	-0.0081	0.0018	4.32E-06
2-aminobutyrate	rs10506407	A	G	0.008	0.0017	4.27E-06
2-aminobutyrate	rs2364703	T	G	0.008	0.0017	4.27E-06
2-aminobutyrate	rs11173339	T	C	-0.008	0.0017	4.26E-06
2-aminobutyrate	rs11173336	A	G	-0.008	0.0017	4.25E-06
2-aminobutyrate	rs17665306	A	C	0.0081	0.0018	4.24E-06
2-aminobutyrate	rs6946785	A	G	0.0081	0.0018	4.20E-06
2-aminobutyrate	rs4562207	A	G	-0.0081	0.0018	4.18E-06
2-aminobutyrate	rs2497131	A	G	0.0179	0.0039	4.18E-06
2-aminobutyrate	rs1420424	A	G	0.0081	0.0018	4.17E-06
2-aminobutyrate	rs1420426	A	G	0.0081	0.0018	4.16E-06
2-aminobutyrate	rs17595367	A	G	-0.008	0.0017	4.07E-06
2-aminobutyrate	rs3732062	T	C	-0.0174	0.0038	4.05E-06
2-aminobutyrate	rs1334592	T	C	-0.0084	0.0018	4.01E-06
2-aminobutyrate	rs10506408	A	G	-0.008	0.0017	4.01E-06
2-aminobutyrate	rs7856243	A	T	0.0081	0.0018	4.00E-06
2-aminobutyrate	rs11173343	T	G	-0.008	0.0017	4.00E-06
2-aminobutyrate	rs9449776	T	C	0.0186	0.004	3.99E-06
2-aminobutyrate	rs10491285	A	G	-0.0082	0.0018	3.73E-06
2-aminobutyrate	rs11952145	A	G	-0.0121	0.0026	3.63E-06
2-aminobutyrate	rs11954900	T	C	0.012	0.0026	3.60E-06
2-aminobutyrate	rs6486771	T	C	-0.0082	0.0018	3.45E-06
2-aminobutyrate	rs1045649	T	C	0.019	0.0041	3.42E-06
2-aminobutyrate	rs9449777	T	G	0.0191	0.0041	3.32E-06

2-aminobutyrate	rs12473430	T	C	0.0081	0.0018	3.28E-06
2-aminobutyrate	rs934748	A	G	-0.0084	0.0018	3.24E-06
2-aminobutyrate	rs1510870	A	G	-0.0082	0.0018	3.17E-06
2-aminobutyrate	rs405945	T	C	-0.0082	0.0018	3.15E-06
2-aminobutyrate	rs2480198	T	C	0.0191	0.0041	3.11E-06
2-aminobutyrate	rs6841731	A	G	-0.0082	0.0018	2.92E-06
2-aminobutyrate	rs192812	T	C	0.0083	0.0018	2.89E-06
2-aminobutyrate	rs1975393	T	C	-0.0082	0.0018	2.76E-06
2-aminobutyrate	rs9323955	A	G	0.0083	0.0018	2.70E-06
2-aminobutyrate	rs2497127	A	G	-0.0192	0.0041	2.68E-06
2-aminobutyrate	rs13001750	C	G	0.0116	0.0025	2.58E-06
2-aminobutyrate	rs4093759	A	G	0.0082	0.0017	2.57E-06
2-aminobutyrate	rs6931284	A	T	-0.0196	0.0042	2.57E-06
2-aminobutyrate	rs7977065	T	C	-0.0082	0.0017	2.57E-06
2-aminobutyrate	rs4807508	A	G	-0.0123	0.0026	2.55E-06
2-aminobutyrate	rs11173402	A	G	0.0082	0.0018	2.53E-06
2-aminobutyrate	rs10877395	A	C	0.0082	0.0017	2.51E-06
2-aminobutyrate	rs518143	A	G	0.0084	0.0018	2.50E-06
2-aminobutyrate	rs9449803	A	G	-0.0195	0.0041	2.49E-06
2-aminobutyrate	rs2497112	A	G	0.0195	0.0041	2.49E-06
2-aminobutyrate	rs2476901	A	G	0.0195	0.0041	2.49E-06
2-aminobutyrate	rs9444142	T	C	-0.0195	0.0041	2.49E-06
2-aminobutyrate	rs6906432	T	G	-0.0195	0.0041	2.49E-06
2-aminobutyrate	rs16874287	T	C	0.0195	0.0041	2.49E-06
2-aminobutyrate	rs2476902	C	G	-0.0195	0.0041	2.48E-06
2-aminobutyrate	rs728721	T	C	-0.0195	0.0041	2.48E-06
2-aminobutyrate	rs4758848	A	G	-0.0082	0.0017	2.41E-06
2-aminobutyrate	rs735926	T	G	0.0083	0.0018	2.40E-06

2-aminobutyrate	rs40200	A	G	0.0161	0.0034	2.39E-06
2-aminobutyrate	rs17014432	A	G	-0.0083	0.0018	2.39E-06
2-aminobutyrate	rs10898127	T	G	0.0083	0.0018	2.39E-06
2-aminobutyrate	rs2497128	A	G	-0.0193	0.0041	2.37E-06
2-aminobutyrate	rs10877394	T	C	-0.0082	0.0017	2.36E-06
2-aminobutyrate	rs4671635	A	G	-0.0117	0.0025	2.35E-06
2-aminobutyrate	rs6725785	A	C	0.0117	0.0025	2.35E-06
2-aminobutyrate	rs28305	C	G	0.0159	0.0034	2.31E-06
2-aminobutyrate	rs10898007	T	C	0.0083	0.0018	2.30E-06
2-aminobutyrate	rs4625509	A	G	0.0082	0.0017	2.30E-06
2-aminobutyrate	rs10784024	A	T	-0.0083	0.0017	2.23E-06
2-aminobutyrate	rs1367985	T	C	0.0084	0.0018	2.10E-06
2-aminobutyrate	rs4717210	A	G	0.019	0.004	2.03E-06
2-aminobutyrate	rs2497129	T	C	-0.0195	0.0041	1.92E-06
2-aminobutyrate	rs958246	A	C	-0.0084	0.0018	1.82E-06
2-aminobutyrate	rs11885653	T	C	-0.0084	0.0018	1.76E-06
2-aminobutyrate	rs2497150	T	C	0.0198	0.0041	1.76E-06
2-aminobutyrate	rs7075426	A	G	-0.0084	0.0018	1.76E-06
2-aminobutyrate	rs2497122	A	G	0.0196	0.0041	1.73E-06
2-aminobutyrate	rs16826003	T	C	-0.0239	0.005	1.72E-06
2-aminobutyrate	rs4423843	A	G	0.0086	0.0018	1.51E-06
2-aminobutyrate	rs3961919	A	G	0.0085	0.0018	1.48E-06
2-aminobutyrate	rs1152594	A	G	-0.0085	0.0018	1.43E-06
2-aminobutyrate	rs4028695	A	G	0.0085	0.0018	1.39E-06
2-aminobutyrate	rs9821422	T	G	-0.0085	0.0018	1.37E-06
2-aminobutyrate	rs11233649	A	C	-0.0085	0.0018	1.25E-06
2-aminobutyrate	rs684729	T	C	0.0086	0.0018	1.23E-06
2-aminobutyrate	rs597533	A	G	0.0086	0.0018	1.21E-06

2-aminobutyrate	rs4815285	A	G	-0.0085	0.0018	1.19E-06
2-aminobutyrate	rs1080960	T	C	0.0202	0.0041	1.11E-06
2-aminobutyrate	rs7927629	T	C	0.0086	0.0018	1.04E-06
2-aminobutyrate	rs17763479	A	C	0.0167	0.0034	9.81E-07
2-aminobutyrate	rs755403	T	C	0.0087	0.0018	9.52E-07
2-aminobutyrate	rs6592116	T	C	0.0086	0.0018	9.17E-07
2-aminobutyrate	rs7131385	A	G	0.0086	0.0018	9.16E-07
2-aminobutyrate	rs13255448	T	C	-0.0126	0.0026	9.14E-07
2-aminobutyrate	rs2480197	A	G	0.0192	0.0039	9.11E-07
2-aminobutyrate	rs1897372	C	G	0.0086	0.0018	9.09E-07
2-aminobutyrate	rs4496953	A	G	0.0126	0.0026	9.08E-07
2-aminobutyrate	rs11607886	T	C	-0.0086	0.0018	9.06E-07
2-aminobutyrate	rs13261708	T	C	-0.0126	0.0026	8.96E-07
2-aminobutyrate	rs13267802	A	G	-0.0126	0.0026	8.92E-07
2-aminobutyrate	rs1011666	T	C	-0.0086	0.0018	8.87E-07
2-aminobutyrate	rs4479221	C	G	-0.0086	0.0018	8.69E-07
2-aminobutyrate	rs12991423	A	G	-0.0198	0.004	8.59E-07
2-aminobutyrate	rs9668893	T	C	-0.0086	0.0017	8.55E-07
2-aminobutyrate	rs13256255	A	G	-0.0126	0.0026	8.30E-07
2-aminobutyrate	rs11202023	T	C	-0.0087	0.0018	8.26E-07
2-aminobutyrate	rs597467	T	C	0.0087	0.0018	8.06E-07
2-aminobutyrate	rs37379	A	G	0.0168	0.0034	7.94E-07
2-aminobutyrate	rs2018507	A	G	-0.0088	0.0018	7.06E-07
2-aminobutyrate	rs3815987	T	C	-0.0088	0.0018	7.02E-07
2-aminobutyrate	rs7678928	T	C	-0.0087	0.0017	6.99E-07
2-aminobutyrate	rs919667	A	G	-0.0088	0.0018	6.97E-07
2-aminobutyrate	rs3815986	T	C	0.0088	0.0018	6.43E-07
2-aminobutyrate	rs1948226	A	G	-0.0087	0.0018	6.22E-07

2-aminobutyrate	rs2635185	A	G	0.0088	0.0018	5.97E-07
2-aminobutyrate	rs2635351	A	C	-0.0088	0.0018	5.95E-07
2-aminobutyrate	rs2635352	T	C	-0.0088	0.0018	5.95E-07
2-aminobutyrate	rs872227	T	C	-0.0088	0.0018	5.22E-07
2-aminobutyrate	rs1262242	T	C	0.0088	0.0018	5.22E-07
2-aminobutyrate	rs4758743	A	G	-0.0088	0.0017	4.96E-07
2-aminobutyrate	rs2480201	T	C	0.0279	0.0055	4.82E-07
2-aminobutyrate	rs3219	T	C	0.0206	0.0041	4.77E-07
2-aminobutyrate	rs4421983	T	G	0.0088	0.0018	4.65E-07
2-aminobutyrate	rs7314355	A	C	0.0088	0.0017	4.53E-07
2-aminobutyrate	rs7979069	T	C	-0.0088	0.0017	4.08E-07
2-aminobutyrate	rs7310323	A	C	0.0088	0.0017	4.07E-07
2-aminobutyrate	rs1432052	T	G	0.009	0.0018	3.99E-07
2-aminobutyrate	rs10790077	T	C	-0.009	0.0018	3.15E-07
2-aminobutyrate	rs1432054	A	G	0.009	0.0018	3.06E-07
2-aminobutyrate	rs1432053	T	C	-0.009	0.0018	3.03E-07
2-aminobutyrate	rs7741955	A	C	0.0306	0.0059	2.55E-07
2-aminobutyrate	rs2017320	T	C	-0.017	0.0033	1.99E-07
2-aminobutyrate	rs17185647	T	C	0.0313	0.006	1.83E-07
2-aminobutyrate	rs17185634	T	G	-0.0313	0.006	1.81E-07
2-aminobutyrate	rs17789596	A	G	0.0313	0.006	1.81E-07
2-aminobutyrate	rs1324147	C	G	0.0313	0.006	1.81E-07
2-aminobutyrate	rs1324146	A	C	0.0313	0.006	1.81E-07
2-aminobutyrate	rs1152592	A	G	-0.0092	0.0018	1.57E-07
2-aminobutyrate	rs1469609	A	C	0.0092	0.0018	1.48E-07
2-aminobutyrate	rs4315324	A	G	0.0092	0.0018	1.39E-07
2-aminobutyrate	rs10898126	T	G	0.0093	0.0018	1.37E-07
2-aminobutyrate	rs1469610	A	C	0.0093	0.0017	1.20E-07

2-aminobutyrate	rs1864774	T	C	0.0093	0.0017	1.15E-07
2-aminobutyrate	rs6972344	T	C	0.0094	0.0018	1.11E-07
2-aminobutyrate	rs11879267	A	G	-0.0138	0.0026	8.70E-08
2-aminobutyrate	rs2324637	T	C	0.0322	0.006	8.00E-08
2-aminobutyrate	rs12999720	A	G	-0.014	0.0026	5.46E-08
2-aminobutyrate	rs17668963	A	C	0.0326	0.006	5.33E-08
2-aminobutyrate	rs10024717	A	G	-0.0098	0.0018	3.14E-08
2-aminobutyrate	rs7576477	C	G	0.0143	0.0026	2.85E-08
2-aminobutyrate	rs7578272	A	T	-0.0148	0.0026	1.01E-08
2-aminobutyrate	rs13015738	A	G	-0.0148	0.0026	9.00E-09
2-aminobutyrate	rs13015870	A	C	0.0148	0.0026	8.99E-09
2-aminobutyrate	rs13035939	T	C	-0.0149	0.0026	8.92E-09
2-aminobutyrate	rs13008899	A	G	-0.0149	0.0026	8.89E-09
2-aminobutyrate	rs6731482	A	G	0.0149	0.0026	8.85E-09
2-aminobutyrate	rs6546116	A	T	0.0149	0.0026	8.80E-09
2-aminobutyrate	rs7590631	T	G	-0.0148	0.0026	8.55E-09
2-aminobutyrate	rs7593237	A	G	0.0149	0.0026	7.95E-09
2-aminobutyrate	rs17612451	T	G	-0.0149	0.0026	7.46E-09
2-aminobutyrate	rs17669269	C	G	0.015	0.0026	7.09E-09
2-aminobutyrate	rs17029659	T	C	-0.015	0.0026	6.22E-09
2-aminobutyrate	rs17029654	A	G	-0.015	0.0026	6.05E-09
2-aminobutyrate	rs1541580	T	C	0.0156	0.0024	1.03E-10
2-aminobutyrate	rs10022462	T	C	-0.0117	0.0018	4.55E-11
2-aminobutyrate	rs10211524	A	G	0.0189	0.0023	5.59E-16
3- (3-hydroxyphenyl) propionate	rs16871475	A	G	-0.0719	0.0163	9.79E-06
3- (3-hydroxyphenyl) propionate	rs11167296	A	T	0.0798	0.018	8.94E-06
3- (3-hydroxyphenyl) propionate	rs7201025	T	C	-0.0494	0.0111	8.72E-06
3- (3-hydroxyphenyl) propionate	rs3846659	C	G	0.0691	0.0155	8.64E-06

3- (3-hydroxyphenyl) propionate	rs7203888	T	C	0.0496	0.0111	7.92E-06
3- (3-hydroxyphenyl) propionate	rs7252102	A	G	-0.0545	0.0121	6.70E-06
3- (3-hydroxyphenyl) propionate	rs2459791	T	C	0.0552	0.0121	5.24E-06
3- (3-hydroxyphenyl) propionate	rs12920700	A	G	-0.0508	0.0111	4.70E-06
3- (3-hydroxyphenyl) propionate	rs6500859	A	T	-0.0511	0.0111	4.56E-06
3- (3-hydroxyphenyl) propionate	rs13346655	C	G	-0.0528	0.0115	4.25E-06
3- (3-hydroxyphenyl) propionate	rs17384314	C	G	0.0503	0.0109	4.11E-06
3- (3-hydroxyphenyl) propionate	rs7110135	C	G	0.0523	0.0113	4.00E-06
3- (3-hydroxyphenyl) propionate	rs11906890	A	G	-0.0801	0.0173	3.73E-06
3- (3-hydroxyphenyl) propionate	rs4796899	T	G	0.093	0.0201	3.55E-06
3- (3-hydroxyphenyl) propionate	rs2278997	A	G	0.0533	0.0115	3.48E-06
3- (3-hydroxyphenyl) propionate	rs11666569	T	C	0.0564	0.0122	3.43E-06
3- (3-hydroxyphenyl) propionate	rs11907654	A	G	0.0809	0.0173	3.05E-06
3- (3-hydroxyphenyl) propionate	rs12480837	A	G	-0.081	0.0173	2.89E-06
3- (3-hydroxyphenyl) propionate	rs17059417	A	G	0.1061	0.0227	2.86E-06
3- (3-hydroxyphenyl) propionate	rs12461874	A	C	0.0569	0.0121	2.70E-06
3- (3-hydroxyphenyl) propionate	rs12537257	A	G	0.0912	0.0194	2.48E-06
3- (3-hydroxyphenyl) propionate	rs3093561	A	G	0.5943	0.1227	1.27E-06
3- (3-hydroxyphenyl) propionate	rs883595	A	G	-0.1659	0.0341	1.14E-06
3- (4-hydroxyphenyl) lactate	rs4881425	T	C	0.0115	0.0026	9.81E-06
3- (4-hydroxyphenyl) lactate	rs2140090	T	G	-0.0113	0.0026	9.57E-06
3- (4-hydroxyphenyl) lactate	rs4746077	A	T	-0.0316	0.0071	9.27E-06
3- (4-hydroxyphenyl) lactate	rs6919482	T	C	-0.0826	0.0186	9.20E-06
3- (4-hydroxyphenyl) lactate	rs17010109	C	G	-0.0267	0.006	9.05E-06
3- (4-hydroxyphenyl) lactate	rs16868525	A	C	0.0454	0.0102	8.73E-06
3- (4-hydroxyphenyl) lactate	rs11815997	T	G	-0.0117	0.0026	8.71E-06
3- (4-hydroxyphenyl) lactate	rs1889460	T	C	-0.0117	0.0026	8.69E-06
3- (4-hydroxyphenyl) lactate	rs6942571	A	T	0.0214	0.0048	8.61E-06

3- (4-hydroxyphenyl) lactate	rs9973135	T	C	-0.0251	0.0056	8.32E-06
3- (4-hydroxyphenyl) lactate	rs869009	T	C	0.0117	0.0026	8.26E-06
3- (4-hydroxyphenyl) lactate	rs4775770	A	G	-0.0156	0.0035	8.26E-06
3- (4-hydroxyphenyl) lactate	rs11647808	A	C	0.0222	0.005	8.19E-06
3- (4-hydroxyphenyl) lactate	rs11643959	T	G	-0.0222	0.005	8.19E-06
3- (4-hydroxyphenyl) lactate	rs1574351	A	G	-0.0117	0.0026	8.10E-06
3- (4-hydroxyphenyl) lactate	rs1036244	T	C	0.0116	0.0026	7.80E-06
3- (4-hydroxyphenyl) lactate	rs16868513	A	G	0.0454	0.0101	7.34E-06
3- (4-hydroxyphenyl) lactate	rs7728541	A	G	0.0455	0.0101	7.09E-06
3- (4-hydroxyphenyl) lactate	rs2817479	T	G	0.0126	0.0028	6.92E-06
3- (4-hydroxyphenyl) lactate	rs3915129	T	G	0.0116	0.0026	6.82E-06
3- (4-hydroxyphenyl) lactate	rs17631990	T	C	0.0237	0.0053	6.81E-06
3- (4-hydroxyphenyl) lactate	rs1574228	A	G	0.0119	0.0026	6.71E-06
3- (4-hydroxyphenyl) lactate	rs17010007	T	G	0.036	0.0079	5.99E-06
3- (4-hydroxyphenyl) lactate	rs2819346	A	C	-0.0118	0.0026	5.96E-06
3- (4-hydroxyphenyl) lactate	rs12406123	T	C	0.0264	0.0058	5.78E-06
3- (4-hydroxyphenyl) lactate	rs2250377	A	G	0.0119	0.0026	5.35E-06
3- (4-hydroxyphenyl) lactate	rs2819349	T	C	0.0119	0.0026	5.08E-06
3- (4-hydroxyphenyl) lactate	rs2820311	A	G	-0.0119	0.0026	5.03E-06
3- (4-hydroxyphenyl) lactate	rs2819348	T	C	-0.0119	0.0026	5.01E-06
3- (4-hydroxyphenyl) lactate	rs10492467	T	C	-0.0228	0.005	4.91E-06
3- (4-hydroxyphenyl) lactate	rs2644122	A	G	-0.0119	0.0026	4.70E-06
3- (4-hydroxyphenyl) lactate	rs2644121	A	G	-0.0119	0.0026	4.69E-06
3- (4-hydroxyphenyl) lactate	rs2644107	T	C	-0.0119	0.0026	4.68E-06
3- (4-hydroxyphenyl) lactate	rs1400875	T	C	-0.0119	0.0026	4.67E-06
3- (4-hydroxyphenyl) lactate	rs12853559	A	G	0.0228	0.005	4.63E-06
3- (4-hydroxyphenyl) lactate	rs2819347	C	G	-0.0119	0.0026	4.57E-06
3- (4-hydroxyphenyl) lactate	rs2820323	A	G	0.0119	0.0026	4.54E-06

3- (4-hydroxyphenyl) lactate	rs2644119	T	C	0.0121	0.0026	4.24E-06
3- (4-hydroxyphenyl) lactate	rs6694519	T	C	0.0123	0.0027	3.87E-06
3- (4-hydroxyphenyl) lactate	rs2820295	A	G	0.012	0.0026	3.80E-06
3- (4-hydroxyphenyl) lactate	rs9870255	C	G	-0.012	0.0026	3.73E-06
3- (4-hydroxyphenyl) lactate	rs6699507	T	C	-0.0159	0.0034	3.25E-06
3- (4-hydroxyphenyl) lactate	rs4784054	A	G	0.02	0.0043	2.90E-06
3- (4-hydroxyphenyl) lactate	rs11644269	A	G	0.02	0.0043	2.90E-06
3- (4-hydroxyphenyl) lactate	rs4235022	T	C	-0.0827	0.0177	2.81E-06
3- (4-hydroxyphenyl) lactate	rs7688048	A	G	0.0826	0.0176	2.79E-06
3- (4-hydroxyphenyl) lactate	rs4510065	T	C	0.0163	0.0035	2.77E-06
3- (4-hydroxyphenyl) lactate	rs8062792	A	G	0.0204	0.0044	2.72E-06
3- (4-hydroxyphenyl) lactate	rs3749572	T	C	0.0808	0.0172	2.62E-06
3- (4-hydroxyphenyl) lactate	rs4641779	A	C	0.0165	0.0035	2.37E-06
3- (4-hydroxyphenyl) lactate	rs12406150	T	C	0.0276	0.0059	2.36E-06
3- (4-hydroxyphenyl) lactate	rs12401469	A	T	0.0277	0.0059	2.16E-06
3- (4-hydroxyphenyl) lactate	rs7204324	A	T	-0.0236	0.005	2.12E-06
3- (4-hydroxyphenyl) lactate	rs2678209	A	G	0.0126	0.0026	1.85E-06
3- (4-hydroxyphenyl) lactate	rs17101404	A	G	0.0245	0.0051	1.85E-06
3- (4-hydroxyphenyl) lactate	rs17480173	A	C	-0.0212	0.0044	1.60E-06
3- (4-hydroxyphenyl) lactate	rs8024	A	C	0.0126	0.0026	1.58E-06
3- (4-hydroxyphenyl) lactate	rs1552425	A	T	-0.0123	0.0026	1.54E-06
3- (4-hydroxyphenyl) lactate	rs718377	A	G	-0.0126	0.0026	1.29E-06
3- (4-hydroxyphenyl) lactate	rs17389253	T	C	-0.0214	0.0044	1.03E-06
3- (4-hydroxyphenyl) lactate	rs6691915	A	G	0.013	0.0027	8.95E-07
3- (4-hydroxyphenyl) lactate	rs2228309	A	G	-0.0154	0.0031	8.63E-07
3- (4-hydroxyphenyl) lactate	rs17010084	T	C	-0.0291	0.0059	7.19E-07
3- (4-hydroxyphenyl) lactate	rs17010076	T	C	-0.0291	0.0059	7.08E-07
3- (4-hydroxyphenyl) lactate	rs17010170	C	G	-0.0292	0.0059	6.61E-07

3- (4-hydroxyphenyl) lactate	rs12601558	A	C	0.0184	0.0037	6.54E-07
3- (4-hydroxyphenyl) lactate	rs9747201	A	C	0.016	0.0026	9.48E-10
3- (4-hydroxyphenyl) lactate	rs9944398	A	G	0.0162	0.0026	5.40E-10
3- (4-hydroxyphenyl) lactate	rs4239020	T	C	-0.0162	0.0026	5.36E-10
3- (4-hydroxyphenyl) lactate	rs8082212	C	G	-0.0162	0.0026	5.33E-10
3- (4-hydroxyphenyl) lactate	rs6502056	C	G	-0.0161	0.0026	4.61E-10
3- (4-hydroxyphenyl) lactate	rs8072702	T	C	0.0161	0.0026	4.59E-10
3- (4-hydroxyphenyl) lactate	rs9747668	A	G	0.0164	0.0026	4.12E-10
3- (4-hydroxyphenyl) lactate	rs9674648	A	G	0.0161	0.0026	3.64E-10
3- (4-hydroxyphenyl) lactate	rs8070014	T	G	0.0164	0.0026	2.14E-10
3- (4-hydroxyphenyl) lactate	rs6502051	A	C	-0.0164	0.0026	2.07E-10
3- (4-hydroxyphenyl) lactate	rs12150589	A	T	0.0167	0.0026	1.72E-10
3- (4-hydroxyphenyl) lactate	rs7502676	C	G	0.0167	0.0026	1.05E-10
3- (4-hydroxyphenyl) lactate	rs6502050	C	G	-0.0168	0.0026	9.84E-11
3- (4-hydroxyphenyl) lactate	rs6416857	A	G	-0.0167	0.0026	9.01E-11
3- (4-hydroxyphenyl) lactate	rs8082577	T	C	-0.0168	0.0026	7.19E-11
3- (4-hydroxyphenyl) lactate	rs6502055	T	G	0.0168	0.0026	7.13E-11
3- (4-hydroxyphenyl) lactate	rs7217625	T	C	0.0169	0.0026	6.07E-11
3- (4-hydroxyphenyl) lactate	rs7503429	A	C	-0.0171	0.0026	5.08E-11
3- (4-hydroxyphenyl) lactate	rs9916231	T	C	0.017	0.0026	4.84E-11
3- (4-hydroxyphenyl) lactate	rs9911379	A	G	0.0169	0.0026	4.53E-11
3- (4-hydroxyphenyl) lactate	rs7226049	A	G	-0.0169	0.0026	3.63E-11
3- (4-hydroxyphenyl) lactate	rs9905991	A	G	-0.0171	0.0026	3.49E-11
3- (4-hydroxyphenyl) lactate	rs8071737	T	C	0.0172	0.0026	3.30E-11
3- (4-hydroxyphenyl) lactate	rs8078087	T	G	0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs7503225	A	C	-0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs7501461	T	C	-0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs8080423	A	G	0.0171	0.0026	3.08E-11

3- (4-hydroxyphenyl) lactate	rs6502070	A	G	-0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs3935128	T	C	0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs6502068	T	C	-0.0171	0.0026	3.08E-11
3- (4-hydroxyphenyl) lactate	rs12051747	T	C	0.0171	0.0026	3.06E-11
3- (4-hydroxyphenyl) lactate	rs8080625	A	G	-0.0171	0.0026	3.01E-11
3- (4-hydroxyphenyl) lactate	rs9891378	T	C	0.0171	0.0026	2.98E-11
3- (4-hydroxyphenyl) lactate	rs3088177	A	G	0.0172	0.0026	2.98E-11
3- (4-hydroxyphenyl) lactate	rs7502078	A	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs4789675	A	G	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs9904237	A	G	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs12945993	T	C	0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs6502078	A	G	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs9898326	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs11491185	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs4641801	A	G	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs7209474	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs7220639	A	G	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs3935816	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs9891962	T	C	0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs8082355	A	G	0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs9898542	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs9898507	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs8066284	T	C	-0.0171	0.0026	2.93E-11
3- (4-hydroxyphenyl) lactate	rs12950475	T	C	0.0171	0.0026	2.92E-11
3- (4-hydroxyphenyl) lactate	rs8081783	A	G	-0.0171	0.0026	2.91E-11
3- (4-hydroxyphenyl) lactate	rs8081949	A	G	-0.0171	0.0026	2.91E-11
3- (4-hydroxyphenyl) lactate	rs8077926	A	C	-0.0171	0.0026	2.91E-11
3- (4-hydroxyphenyl) lactate	rs11654584	A	T	0.0174	0.0026	2.43E-11

3- (4-hydroxyphenyl) lactate	rs7225637	A	G	0.0175	0.0026	1.50E-11
3- (4-hydroxyphenyl) lactate	rs4247357	T	G	-0.0176	0.0026	9.09E-12
3- (4-hydroxyphenyl) lactate	rs7208673	C	G	-0.0176	0.0026	9.08E-12
3- (4-hydroxyphenyl) lactate	rs8079388	A	C	-0.0176	0.0026	8.99E-12
3- (4-hydroxyphenyl) lactate	rs4789668	T	C	-0.0177	0.0026	7.30E-12
3- (4-hydroxyphenyl) lactate	rs7215277	A	C	-0.0177	0.0026	7.28E-12
3- (4-hydroxyphenyl) lactate	rs7406163	T	C	0.0177	0.0026	6.98E-12
3- (4-hydroxyphenyl) lactate	rs7406220	T	C	-0.0177	0.0026	5.74E-12
3- (4-hydroxyphenyl) lactate	rs11077969	A	G	-0.0177	0.0026	5.74E-12
3- (4-hydroxyphenyl) lactate	rs11658335	T	C	0.0177	0.0026	5.74E-12
3- (4-hydroxyphenyl) lactate	rs7221544	T	C	0.0177	0.0026	5.74E-12
3- (4-hydroxyphenyl) lactate	rs4789698	T	C	-0.0177	0.0026	5.48E-12
3- (4-hydroxyphenyl) lactate	rs6502057	A	G	-0.0178	0.0026	5.17E-12
3- (4-hydroxyphenyl) lactate	rs8071425	T	C	0.0178	0.0026	4.31E-12
3- (4-hydroxyphenyl) lactate	rs8077772	T	C	-0.0178	0.0026	4.24E-12
3- (4-hydroxyphenyl) lactate	rs8073679	A	G	-0.0179	0.0026	4.02E-12
3- (4-hydroxyphenyl) lactate	rs4132775	T	C	-0.0179	0.0026	4.02E-12
3- (4-hydroxyphenyl) lactate	rs4789720	C	G	-0.0179	0.0026	4.02E-12
3- (4-hydroxyphenyl) lactate	rs4789670	T	C	0.018	0.0026	3.76E-12
3- (4-hydroxyphenyl) lactate	rs4789754	A	G	-0.0178	0.0026	3.63E-12
3- (4-hydroxyphenyl) lactate	rs8067875	T	C	-0.0178	0.0026	3.37E-12
3- (4-hydroxyphenyl) lactate	rs4789671	T	C	-0.0181	0.0026	3.06E-12
3- (4-hydroxyphenyl) lactate	rs4459614	T	C	0.018	0.0026	2.39E-12
3- (4-hydroxyphenyl) lactate	rs4625783	T	C	-0.0187	0.0026	3.90E-13
3-hydroxybutyrate	rs1547058	T	C	-0.1099	0.0247	8.67E-06
3-hydroxybutyrate	rs2295758	T	C	-0.1137	0.0255	8.57E-06
3-hydroxybutyrate	rs7314742	T	G	-0.0358	0.008	8.51E-06
3-hydroxybutyrate	rs2249219	C	G	0.0362	0.0081	7.55E-06

3-hydroxybutyrate	rs11224003	A	G	0.0419	0.0093	7.07E-06
3-hydroxybutyrate	rs2527653	C	G	-0.0304	0.0068	6.96E-06
3-hydroxybutyrate	rs2711506	A	G	-0.0326	0.0072	6.35E-06
3-hydroxybutyrate	rs17509986	T	G	-0.0958	0.0212	6.04E-06
3-hydroxybutyrate	rs6493912	T	C	-0.0368	0.0081	5.36E-06
3-hydroxybutyrate	rs4838537	T	C	0.3226	0.0699	3.96E-06
3-hydroxybutyrate	rs17508336	A	G	-0.0891	0.0193	3.87E-06
3-hydroxybutyrate	rs4297577	T	C	0.0977	0.0209	2.94E-06
3-hydroxybutyrate	rs13288937	A	C	0.2488	0.0526	2.29E-06
3-hydroxybutyrate	rs8000457	T	C	-0.2093	0.0433	1.35E-06
3-hydroxybutyrate	rs1822906	A	G	0.041	0.0083	9.05E-07
3-hydroxybutyrate	rs1348656	T	C	-0.0436	0.0088	7.29E-07
3-hydroxybutyrate	rs11719883	C	G	-0.0524	0.0103	3.86E-07
3-hydroxyglutarate	rs16977497	A	G	0.0538	0.0122	9.91E-06
3-hydroxyglutarate	rs10966195	T	C	0.0148	0.0034	9.80E-06
3-hydroxyglutarate	rs890519	A	C	0.0147	0.0033	9.06E-06
3-hydroxyglutarate	rs17060337	A	G	-0.1035	0.0233	9.04E-06
3-hydroxyglutarate	rs1568101	T	C	-0.0255	0.0057	8.62E-06
3-hydroxyglutarate	rs1555364	T	C	0.015	0.0034	8.23E-06
3-hydroxyglutarate	rs6100536	T	C	0.0151	0.0034	7.75E-06
3-hydroxyglutarate	rs6484669	T	C	-0.0196	0.0044	7.75E-06
3-hydroxyglutarate	rs911150	T	C	-0.0151	0.0034	7.51E-06
3-hydroxyglutarate	rs4395303	A	G	-0.0152	0.0034	7.23E-06
3-hydroxyglutarate	rs4131556	C	G	-0.0151	0.0034	7.12E-06
3-hydroxyglutarate	rs10966201	T	C	0.0151	0.0034	7.11E-06
3-hydroxyglutarate	rs9544785	A	C	-0.015	0.0033	6.63E-06
3-hydroxyglutarate	rs7702827	C	G	-0.0152	0.0034	6.29E-06
3-hydroxyglutarate	rs6064822	A	G	-0.0153	0.0034	5.80E-06

3-hydroxyglutarate	rs4921229	T	G	0.0153	0.0034	5.44E-06
3-hydroxyglutarate	rs11793331	T	C	0.0619	0.0136	5.09E-06
3-hydroxyglutarate	rs7726949	T	C	0.0241	0.0053	4.63E-06
3-hydroxyglutarate	rs6064820	T	C	0.0155	0.0034	4.01E-06
3-hydroxyglutarate	rs16823866	T	C	-0.0303	0.0066	3.93E-06
3-hydroxyglutarate	rs7725624	A	C	-0.044	0.0094	3.02E-06
3-hydroxyglutarate	rs8176023	A	G	-0.0411	0.0087	2.46E-06
3-hydroxyglutarate	rs6974494	T	C	-0.0164	0.0035	2.04E-06
3-hydroxyglutarate	rs2372033	T	C	-0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs4732545	T	C	-0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs12707617	A	G	-0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs933341	A	G	0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs4732543	A	G	0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs929334	T	C	0.0166	0.0035	1.56E-06
3-hydroxyglutarate	rs10196007	T	C	-0.032	0.0065	7.63E-07
3-indoxyl sulfate	rs16891725	T	C	0.0242	0.0055	9.54E-06
3-indoxyl sulfate	rs1564485	A	T	0.0158	0.0035	7.85E-06
3-indoxyl sulfate	rs527140	A	G	-0.0329	0.0073	6.77E-06
3-indoxyl sulfate	rs3847067	A	C	-0.0316	0.007	6.69E-06
3-indoxyl sulfate	rs11153879	A	T	0.0199	0.0044	6.53E-06
3-indoxyl sulfate	rs12191839	A	G	-0.0198	0.0044	6.27E-06
3-indoxyl sulfate	rs10031835	T	C	-0.034	0.0075	5.81E-06
3-indoxyl sulfate	rs13195509	A	G	0.0255	0.0056	5.54E-06
3-indoxyl sulfate	rs12193636	T	G	-0.02	0.0044	4.96E-06
3-indoxyl sulfate	rs6937757	A	G	-0.02	0.0044	4.93E-06
3-indoxyl sulfate	rs17043547	A	T	-0.079	0.0173	4.90E-06
3-indoxyl sulfate	rs6911218	A	G	-0.0201	0.0044	4.80E-06
3-indoxyl sulfate	rs12192691	T	C	0.0201	0.0044	4.76E-06

3-indoxyl sulfate	rs12212439	T	C	-0.0201	0.0044	4.76E-06
3-indoxyl sulfate	rs10457377	A	G	0.0204	0.0044	3.19E-06
3-indoxyl sulfate	rs9379897	T	C	-0.0261	0.0055	2.04E-06
3-indoxyl sulfate	rs9489956	T	C	0.0395	0.0079	5.28E-07
3-methoxytyrosine	rs10414464	T	C	-0.0117	0.0026	9.90E-06
3-methoxytyrosine	rs2334252	T	G	-0.0117	0.0026	9.76E-06
3-methoxytyrosine	rs10409728	A	G	-0.0117	0.0026	9.67E-06
3-methoxytyrosine	rs9323203	A	C	-0.0118	0.0027	9.50E-06
3-methoxytyrosine	rs10884254	T	C	-0.0273	0.0062	8.99E-06
3-methoxytyrosine	rs7909681	T	C	0.0273	0.0062	8.91E-06
3-methoxytyrosine	rs12530905	T	C	-0.0117	0.0026	8.79E-06
3-methoxytyrosine	rs7514881	C	G	0.012	0.0027	8.53E-06
3-methoxytyrosine	rs17085526	A	G	-0.0118	0.0026	7.92E-06
3-methoxytyrosine	rs12662219	A	G	0.0117	0.0026	7.91E-06
3-methoxytyrosine	rs7752829	T	G	0.0117	0.0026	7.91E-06
3-methoxytyrosine	rs11192702	A	G	-0.0275	0.0062	7.88E-06
3-methoxytyrosine	rs11765351	T	C	-0.0117	0.0026	7.82E-06
3-methoxytyrosine	rs7908166	A	G	-0.0356	0.0079	7.68E-06
3-methoxytyrosine	rs12530900	T	C	-0.0118	0.0026	7.11E-06
3-methoxytyrosine	rs10963172	A	G	0.0352	0.0078	6.99E-06
3-methoxytyrosine	rs10800623	A	G	-0.0262	0.0058	6.17E-06
3-methoxytyrosine	rs10012175	T	C	0.0194	0.0043	5.78E-06
3-methoxytyrosine	rs11564705	T	C	-0.0153	0.0033	5.21E-06
3-methoxytyrosine	rs10234744	A	G	-0.0119	0.0026	5.20E-06
3-methoxytyrosine	rs6448908	T	C	0.0843	0.0184	4.70E-06
3-methoxytyrosine	rs11155996	A	G	-0.0122	0.0027	4.19E-06
3-methoxytyrosine	rs6442530	T	C	-0.026	0.0055	2.75E-06
3-methoxytyrosine	rs12131781	A	G	0.0126	0.0027	2.59E-06

3-methoxytyrosine	rs7751499	A	G	0.0124	0.0026	2.57E-06
3-methoxytyrosine	rs12538514	C	G	0.0124	0.0026	2.43E-06
3-methoxytyrosine	rs6592988	T	C	0.0167	0.0035	2.40E-06
3-methoxytyrosine	rs7253109	T	G	0.0125	0.0026	2.34E-06
3-methoxytyrosine	rs11043016	T	C	-0.016	0.0033	1.90E-06
3-methoxytyrosine	rs339710	A	T	0.0126	0.0026	1.77E-06
3-methoxytyrosine	rs11042978	T	G	-0.0133	0.0028	1.66E-06
3-methoxytyrosine	rs4930046	A	G	-0.0134	0.0028	1.47E-06
3-methoxytyrosine	rs11564710	A	C	0.0166	0.0034	9.79E-07
3-methoxytyrosine	rs12815706	A	G	0.019	0.0039	9.10E-07
3-methoxytyrosine	rs339716	A	G	0.0135	0.0026	3.19E-07
3-methoxytyrosine	rs235207	C	G	-0.0143	0.0026	6.56E-08
3-methoxytyrosine	rs339707	T	G	-0.0142	0.0026	6.35E-08
4-hydroxyhippurate	rs7737173	A	G	0.0368	0.0083	9.83E-06
4-hydroxyhippurate	rs1371438	A	C	-0.0368	0.0075	9.75E-06
4-hydroxyhippurate	rs12105275	A	G	-0.0371	0.0081	9.17E-06
4-hydroxyhippurate	rs2028355	A	G	0.0392	0.0084	9.02E-06
4-hydroxyhippurate	rs9580319	T	C	-0.0641	0.014	8.80E-06
4-hydroxyhippurate	rs13296917	T	C	0.2143	0.0481	8.59E-06
4-hydroxyhippurate	rs12466506	C	G	-0.0463	0.0104	8.57E-06
4-hydroxyhippurate	rs1948766	T	G	-0.037	0.0083	8.25E-06
4-hydroxyhippurate	rs6550458	A	T	0.0331	0.0072	7.72E-06
4-hydroxyhippurate	rs1158709	T	C	-0.0336	0.0076	6.83E-06
4-hydroxyhippurate	rs3910600	A	G	0.0368	0.0075	6.25E-06
4-hydroxyhippurate	rs1158556	A	G	0.0371	0.0081	5.90E-06
4-hydroxyhippurate	rs8054116	A	C	0.0352	0.008	4.56E-06
4-hydroxyhippurate	rs12053454	T	C	-0.0393	0.0084	4.53E-06
4-hydroxyhippurate	rs1561529	A	G	0.0463	0.0104	4.53E-06

4-hydroxyhippurate	rs1551864	T	C	-0.038	0.0084	4.52E-06
4-hydroxyhippurate	rs1946882	T	C	-0.0371	0.0081	4.52E-06
4-hydroxyhippurate	rs1900312	T	C	0.0371	0.0081	4.51E-06
4-hydroxyhippurate	rs2224722	T	G	0.0628	0.014	4.51E-06
4-hydroxyhippurate	rs1439737	T	C	0.0368	0.0075	4.44E-06
4-hydroxyhippurate	rs1439726	A	C	-0.0371	0.0081	4.28E-06
4-hydroxyhippurate	rs11932470	A	G	0.0361	0.0076	2.79E-06
4-hydroxyhippurate	rs993915	C	G	-0.0371	0.0081	2.76E-06
4-hydroxyhippurate	rs9417900	T	C	0.0385	0.0085	2.42E-06
4-hydroxyhippurate	rs7083146	A	G	0.0388	0.0087	1.08E-06
4-hydroxyhippurate	rs12422389	T	C	-0.0801	0.018	1.08E-06
4-hydroxyhippurate	rs1837430	C	G	-0.0371	0.0081	1.08E-06
7-Hoca	rs2073156	A	G	-0.0114	0.0026	9.92E-06
7-Hoca	rs2073157	A	G	0.0114	0.0026	9.85E-06
7-Hoca	rs11853268	T	C	-0.0116	0.0026	8.86E-06
7-Hoca	rs2279283	T	C	-0.0116	0.0026	8.85E-06
7-Hoca	rs8091031	T	C	-0.0116	0.0026	8.03E-06
7-Hoca	rs4777467	T	C	-0.0117	0.0026	8.01E-06
7-Hoca	rs16750	A	G	-0.015	0.0034	7.59E-06
7-Hoca	rs2146548	T	G	0.012	0.0027	7.00E-06
7-Hoca	rs12455458	A	G	0.0117	0.0026	6.99E-06
7-Hoca	rs9953686	T	C	0.0118	0.0026	6.93E-06
7-Hoca	rs12509356	C	G	0.018	0.004	6.80E-06
7-Hoca	rs12591338	A	T	0.0118	0.0026	6.26E-06
7-Hoca	rs2856929	T	C	-0.0118	0.0026	6.06E-06
7-Hoca	rs4776586	A	C	0.0118	0.0026	6.02E-06
7-Hoca	rs12217848	A	G	0.0118	0.0026	5.74E-06
7-Hoca	rs9830523	T	C	-0.0346	0.0076	5.70E-06

7-Hoca	rs2306488	A	G	-0.0118	0.0026	5.66E-06
7-Hoca	rs2035379	T	C	0.0119	0.0026	5.61E-06
7-Hoca	rs9954696	A	T	0.0121	0.0027	5.36E-06
7-Hoca	rs12593134	C	G	0.0119	0.0026	5.18E-06
7-Hoca	rs2200056	T	C	-0.0119	0.0026	5.18E-06
7-Hoca	rs2415130	A	G	0.0117	0.0026	5.15E-06
7-Hoca	rs4238449	A	G	0.0119	0.0026	4.84E-06
7-Hoca	rs4472338	T	C	-0.0118	0.0026	4.57E-06
7-Hoca	rs16956241	T	G	0.012	0.0026	4.53E-06
7-Hoca	rs1428365	T	C	-0.0192	0.0042	4.52E-06
7-Hoca	rs9369302	T	C	0.0118	0.0026	4.15E-06
7-Hoca	rs10064153	A	C	-0.0119	0.0026	3.78E-06
7-Hoca	rs7225312	A	T	-0.0162	0.0035	3.16E-06
7-Hoca	rs1007514	A	G	-0.014	0.003	3.06E-06
7-Hoca	rs12904652	T	C	-0.0121	0.0026	2.75E-06
7-Hoca	rs4238447	T	C	0.0123	0.0026	2.43E-06
7-Hoca	rs2625530	A	G	0.0123	0.0026	2.41E-06
7-Hoca	rs6755317	A	G	0.0357	0.0075	2.03E-06
7-Hoca	rs11593054	T	G	0.0123	0.0025	1.12E-06
7-Hoca	rs10501675	A	C	-0.0346	0.007	7.05E-07
7-Hoca	rs11627218	A	T	0.013	0.0026	6.46E-07
acetylcarnitine	rs2764907	C	G	0.0189	0.0043	9.95E-06
acetylcarnitine	rs13257229	T	C	0.0205	0.0046	9.88E-06
acetylcarnitine	rs1431472	T	C	0.012	0.0027	9.42E-06
acetylcarnitine	rs1655907	T	C	0.0293	0.0066	9.30E-06
acetylcarnitine	rs17132127	A	T	-0.0297	0.0067	9.19E-06
acetylcarnitine	rs7715572	A	G	0.0298	0.0067	8.94E-06
acetylcarnitine	rs10037883	A	G	-0.0298	0.0067	8.94E-06

acetylcarnitine	rs7713502	T	G	0.0297	0.0067	8.91E-06
acetylcarnitine	rs10054049	A	G	0.0271	0.0061	8.56E-06
acetylcarnitine	rs17065805	T	C	-0.0223	0.005	8.24E-06
acetylcarnitine	rs2228070	T	C	0.0118	0.0027	8.20E-06
acetylcarnitine	rs6881245	A	C	-0.03	0.0067	8.17E-06
acetylcarnitine	rs17171872	A	C	-0.0297	0.0067	8.17E-06
acetylcarnitine	rs10735937	T	C	-0.0147	0.0033	8.00E-06
acetylcarnitine	rs6881814	T	C	-0.0297	0.0067	7.97E-06
acetylcarnitine	rs4395626	A	G	0.0303	0.0068	7.92E-06
acetylcarnitine	rs9327595	A	G	-0.03	0.0067	7.83E-06
acetylcarnitine	rs6596025	T	G	-0.03	0.0067	7.59E-06
acetylcarnitine	rs1625356	A	G	0.0254	0.0057	7.46E-06
acetylcarnitine	rs9289719	T	G	0.012	0.0027	7.38E-06
acetylcarnitine	rs1981524	T	C	0.012	0.0027	6.66E-06
acetylcarnitine	rs7713612	C	G	0.0206	0.0046	6.56E-06
acetylcarnitine	rs1348656	T	C	-0.012	0.0027	6.52E-06
acetylcarnitine	rs13184373	T	C	-0.0124	0.0027	6.38E-06
acetylcarnitine	rs7714321	T	C	-0.0306	0.0068	6.35E-06
acetylcarnitine	rs4852897	T	C	0.0122	0.0027	6.27E-06
acetylcarnitine	rs1632913	T	C	0.0291	0.0064	6.24E-06
acetylcarnitine	rs12615875	A	T	-0.0122	0.0027	6.20E-06
acetylcarnitine	rs12614041	T	C	0.0122	0.0027	6.20E-06
acetylcarnitine	rs2063168	C	G	-0.0122	0.0027	6.20E-06
acetylcarnitine	rs3914020	T	G	0.0304	0.0067	6.19E-06
acetylcarnitine	rs3852208	A	C	0.0275	0.0061	6.11E-06
acetylcarnitine	rs7709979	A	C	-0.0278	0.0061	6.09E-06
acetylcarnitine	rs7714362	T	G	-0.0278	0.0061	6.09E-06
acetylcarnitine	rs11954454	A	G	0.0275	0.0061	6.01E-06

acetylcarnitine	rs1171618	T	C	-0.012	0.0027	5.73E-06
acetylcarnitine	rs6810706	A	G	0.0221	0.0049	5.44E-06
acetylcarnitine	rs3844363	A	T	0.0114	0.0025	5.23E-06
acetylcarnitine	rs2706379	T	C	0.0121	0.0027	5.05E-06
acetylcarnitine	rs10058531	T	C	0.0304	0.0067	5.04E-06
acetylcarnitine	rs10079835	T	G	-0.0307	0.0067	4.59E-06
acetylcarnitine	rs7579950	A	G	-0.0649	0.0142	4.58E-06
acetylcarnitine	rs6596047	A	G	0.0273	0.006	4.54E-06
acetylcarnitine	rs4594848	A	C	-0.0116	0.0025	4.10E-06
acetylcarnitine	rs3844312	T	C	-0.0116	0.0025	4.10E-06
acetylcarnitine	rs11951010	A	T	0.1171	0.0254	3.98E-06
acetylcarnitine	rs11186437	A	G	-0.0117	0.0025	3.88E-06
acetylcarnitine	rs10989419	T	C	0.0125	0.0027	3.82E-06
acetylcarnitine	rs9791170	T	C	0.0119	0.0026	3.66E-06
acetylcarnitine	rs4976950	A	C	-0.068	0.0147	3.66E-06
acetylcarnitine	rs6583751	C	G	-0.0117	0.0025	3.60E-06
acetylcarnitine	rs10070034	A	G	-0.0311	0.0067	3.33E-06
acetylcarnitine	rs10040779	A	T	0.0283	0.0061	3.30E-06
acetylcarnitine	rs10478992	C	G	-0.0309	0.0066	3.20E-06
acetylcarnitine	rs10478991	T	C	0.0309	0.0066	3.20E-06
acetylcarnitine	rs17539510	A	C	0.0119	0.0026	3.19E-06
acetylcarnitine	rs7332276	T	G	-0.0178	0.0038	3.14E-06
acetylcarnitine	rs7711551	T	C	0.0311	0.0067	3.07E-06
acetylcarnitine	rs1016988	T	C	-0.0124	0.0027	2.89E-06
acetylcarnitine	rs12521097	A	G	-0.0118	0.0025	2.83E-06
acetylcarnitine	rs11599171	A	G	0.0123	0.0026	2.79E-06
acetylcarnitine	rs9348257	A	T	0.0121	0.0026	2.74E-06
acetylcarnitine	rs10078535	A	G	0.0316	0.0067	2.68E-06

acetylcarnitine	rs1171660	A	G	-0.0121	0.0026	2.39E-06
acetylcarnitine	rs11950562	A	C	0.0119	0.0025	2.34E-06
acetylcarnitine	rs1564348	T	C	0.0128	0.0027	2.24E-06
acetylcarnitine	rs10038843	A	G	-0.0289	0.0061	1.97E-06
acetylcarnitine	rs6596038	A	T	-0.0316	0.0066	1.94E-06
acetylcarnitine	rs10073675	A	T	-0.029	0.0061	1.87E-06
acetylcarnitine	rs10045575	T	C	-0.029	0.0061	1.81E-06
acetylcarnitine	rs1655914	T	C	-0.0307	0.0064	1.70E-06
acetylcarnitine	rs3843502	A	G	-0.0323	0.0067	1.63E-06
acetylcarnitine	rs10052554	T	G	0.0323	0.0067	1.63E-06
acetylcarnitine	rs1171659	A	G	-0.0125	0.0026	1.52E-06
acetylcarnitine	rs886286	A	G	-0.0128	0.0027	1.48E-06
acetylcarnitine	rs1171606	A	G	0.0125	0.0026	1.47E-06
acetylcarnitine	rs10826342	T	G	0.0125	0.0026	1.47E-06
acetylcarnitine	rs2706383	A	G	0.0127	0.0026	1.46E-06
acetylcarnitine	rs2405528	A	G	0.0127	0.0026	1.46E-06
acetylcarnitine	rs11006679	A	G	0.0126	0.0026	1.35E-06
acetylcarnitine	rs1655902	A	G	-0.0295	0.0061	1.29E-06
acetylcarnitine	rs10900807	C	G	0.0129	0.0027	1.27E-06
acetylcarnitine	rs2106854	T	C	0.0129	0.0027	1.26E-06
acetylcarnitine	rs2893807	T	C	-0.0126	0.0026	1.23E-06
acetylcarnitine	rs1904071	T	G	-0.0126	0.0026	1.16E-06
acetylcarnitine	rs1473072	A	G	-0.0125	0.0026	1.10E-06
acetylcarnitine	rs2057655	A	G	0.013	0.0027	1.03E-06
acetylcarnitine	rs10036208	T	C	0.0126	0.0026	1.01E-06
acetylcarnitine	rs2242206	T	G	0.0127	0.0026	9.98E-07
acetylcarnitine	rs2522056	A	G	0.013	0.0026	8.77E-07
acetylcarnitine	rs2706381	T	C	0.0131	0.0026	7.32E-07

acetylcarnitine	rs6874639	A	G	-0.0132	0.0026	6.20E-07
acetylcarnitine	rs10037469	T	G	0.0302	0.006	5.97E-07
acetylcarnitine	rs635619	A	G	0.015	0.003	5.73E-07
acetylcarnitine	rs274571	A	G	-0.015	0.003	5.73E-07
acetylcarnitine	rs2631363	A	G	-0.015	0.003	5.73E-07
acetylcarnitine	rs2631359	T	C	0.015	0.003	5.73E-07
acetylcarnitine	rs2631361	A	C	0.015	0.003	5.73E-07
acetylcarnitine	rs270612	A	G	-0.015	0.003	5.73E-07
acetylcarnitine	rs7730247	A	C	-0.0133	0.0026	5.40E-07
acetylcarnitine	rs1012793	C	G	0.0133	0.0026	5.40E-07
acetylcarnitine	rs10463891	A	G	0.0128	0.0026	5.18E-07
acetylcarnitine	rs162907	A	G	-0.013	0.0026	4.40E-07
acetylcarnitine	rs11242111	A	G	-0.0258	0.0051	4.09E-07
acetylcarnitine	rs6596075	C	G	0.017	0.0034	3.96E-07
acetylcarnitine	rs1004234	A	G	-0.0263	0.0052	3.96E-07
acetylcarnitine	rs13189284	A	C	-0.0265	0.0052	3.91E-07
acetylcarnitine	rs162894	T	G	0.0131	0.0026	3.91E-07
acetylcarnitine	rs1981525	T	C	-0.0261	0.0051	3.56E-07
acetylcarnitine	rs2706395	A	T	-0.0135	0.0027	3.27E-07
acetylcarnitine	rs2522047	T	G	0.0135	0.0027	3.27E-07
acetylcarnitine	rs2522050	T	C	0.0135	0.0027	3.27E-07
acetylcarnitine	rs757105	T	C	0.0135	0.0027	3.27E-07
acetylcarnitine	rs81598	C	G	0.0131	0.0026	3.04E-07
acetylcarnitine	rs662138	C	G	0.0139	0.0027	2.95E-07
acetylcarnitine	rs2522054	T	G	0.0136	0.0027	2.76E-07
acetylcarnitine	rs2706339	T	G	0.0136	0.0027	2.73E-07
acetylcarnitine	rs1171658	A	G	-0.0133	0.0026	2.68E-07
acetylcarnitine	rs2522063	T	G	0.0137	0.0027	2.58E-07

acetylcarnitine	rs2522064	A	G	0.0137	0.0027	2.58E-07
acetylcarnitine	rs2522062	A	G	-0.0137	0.0027	2.58E-07
acetylcarnitine	rs2706373	T	C	0.0137	0.0027	2.57E-07
acetylcarnitine	rs7716905	A	G	0.0316	0.006	1.53E-07
acetylcarnitine	rs162904	T	C	0.0136	0.0026	1.40E-07
acetylcarnitine	rs1007602	T	C	0.0136	0.0026	1.13E-07
acetylcarnitine	rs3900945	T	C	0.0141	0.0026	3.78E-08
acetylcarnitine	rs162890	T	C	0.0144	0.0026	2.68E-08
acetylcarnitine	rs162892	A	G	0.0145	0.0026	2.47E-08
acetylcarnitine	rs7727038	T	C	-0.0144	0.0025	9.67E-09
acetylcarnitine	rs7727544	T	C	-0.0144	0.0025	9.60E-09
acetylcarnitine	rs274549	A	C	-0.0161	0.0027	3.32E-09
acetylcarnitine	rs2631372	C	G	0.0154	0.0026	3.08E-09
acetylcarnitine	rs270607	A	G	0.0155	0.0026	1.56E-09
acetylcarnitine	rs274551	T	C	-0.0164	0.0027	1.34E-09
acetylcarnitine	rs2631362	A	G	-0.0157	0.0026	1.22E-09
acetylcarnitine	rs274548	T	C	-0.0164	0.0027	1.20E-09
acetylcarnitine	rs2405522	A	G	-0.0164	0.0027	1.13E-09
acetylcarnitine	rs6893782	A	C	0.0164	0.0027	1.13E-09
acetylcarnitine	rs274547	A	T	-0.0165	0.0027	1.08E-09
acetylcarnitine	rs7705826	T	G	-0.0164	0.0027	1.04E-09
acetylcarnitine	rs274553	C	G	0.0165	0.0027	9.91E-10
acetylcarnitine	rs274570	T	C	0.0159	0.0026	9.81E-10
acetylcarnitine	rs272888	T	C	0.0157	0.0026	9.37E-10
acetylcarnitine	rs272892	T	C	-0.0157	0.0026	9.37E-10
acetylcarnitine	rs273915	C	G	-0.0157	0.0026	9.08E-10
acetylcarnitine	rs273916	A	C	-0.0157	0.0026	9.01E-10
acetylcarnitine	rs270601	T	C	0.0158	0.0026	8.41E-10

acetylcarnitine	rs272874	T	C	-0.0159	0.0026	7.91E-10
acetylcarnitine	rs272868	C	G	0.0158	0.0026	7.59E-10
acetylcarnitine	rs272882	T	G	-0.0158	0.0026	7.48E-10
acetylcarnitine	rs272880	T	C	-0.0158	0.0026	7.41E-10
acetylcarnitine	rs272878	T	C	0.0158	0.0026	6.80E-10
acetylcarnitine	rs156322	T	C	-0.016	0.0026	4.16E-10
acetylcarnitine	rs671473	A	C	0.0161	0.0026	3.99E-10
acetylcarnitine	rs274552	C	G	0.017	0.0027	3.83E-10
acetylcarnitine	rs273901	T	G	-0.0162	0.0026	2.97E-10
acetylcarnitine	rs183898	C	G	-0.0163	0.0026	2.54E-10
acetylcarnitine	rs270606	A	G	0.0162	0.0026	2.54E-10
acetylcarnitine	rs273912	T	G	-0.0163	0.0026	2.43E-10
acetylcarnitine	rs2897160	T	C	0.0172	0.0027	2.11E-10
acetylcarnitine	rs274554	T	C	-0.0172	0.0027	1.86E-10
acetylcarnitine	rs273911	C	G	0.0164	0.0026	1.51E-10
acetylcarnitine	rs272887	A	G	0.0164	0.0026	1.50E-10
acetylcarnitine	rs274557	T	C	-0.0162	0.0025	1.44E-10
acetylcarnitine	rs274558	A	G	-0.0162	0.0025	1.43E-10
acetylcarnitine	rs274559	A	G	-0.0163	0.0025	1.42E-10
acetylcarnitine	rs272883	A	G	0.0165	0.0026	1.19E-10
acetylcarnitine	rs274550	T	G	0.0174	0.0027	9.97E-11
acetylcarnitine	rs272872	A	G	0.0167	0.0026	9.38E-11
acetylcarnitine	rs2631370	T	C	-0.0164	0.0025	9.20E-11
acetylcarnitine	rs274561	A	C	0.0164	0.0025	7.62E-11
acetylcarnitine	rs274546	A	G	0.0165	0.0025	6.02E-11
acetylcarnitine	rs274562	C	G	0.0165	0.0025	5.72E-11
acetylcarnitine	rs274560	T	C	-0.0166	0.0025	5.28E-11
acetylcarnitine	rs270605	T	C	-0.0166	0.0025	4.40E-11

acetylcarnitine	rs272865	A	T	-0.0167	0.0025	3.85E-11
acetylcarnitine	rs272867	A	G	-0.0167	0.0025	3.76E-11
acetylcarnitine	rs272875	T	C	0.0167	0.0025	3.69E-11
acetylcarnitine	rs272884	C	G	-0.0167	0.0025	3.59E-11
acetylcarnitine	rs272879	C	G	0.0167	0.0025	3.59E-11
acetylcarnitine	rs272881	A	G	-0.0167	0.0025	3.59E-11
acetylcarnitine	rs272886	T	C	0.0167	0.0025	3.51E-11
acetylcarnitine	rs273913	T	C	0.0169	0.0025	3.01E-11
acetylcarnitine	rs272842	A	G	0.0169	0.0025	2.97E-11
acetylcarnitine	rs272869	A	G	0.0168	0.0025	2.66E-11
acetylcarnitine	rs273914	A	T	0.0168	0.0025	2.39E-11
acetylcarnitine	rs272893	T	C	0.0169	0.0025	2.09E-11
acetylcarnitine	rs272889	A	G	0.0169	0.0025	2.05E-11
acetylcarnitine	rs270602	T	C	0.0169	0.0025	1.83E-11
acetylcarnitine	rs270613	A	G	0.0172	0.0025	1.13E-11
acetylcarnitine	rs419291	T	C	0.0173	0.0025	9.83E-12
acetylcarnitine	rs274567	T	C	0.0176	0.0025	2.85E-12
acetylcarnitine	rs7094971	A	G	0.0252	0.0027	2.86E-20
acetylcarnitine	rs1171620	C	G	-0.0263	0.0028	1.98E-20
acetylcarnitine	rs1171619	A	G	-0.0263	0.0028	1.95E-20
acetylcarnitine	rs12772586	T	C	0.0262	0.0027	1.42E-21
acetylcarnitine	rs753762	A	G	-0.0262	0.0027	1.05E-21
acetylcarnitine	rs12356193	A	G	0.027	0.0027	4.01E-23
acetylcarnitine	rs1171617	T	G	0.0279	0.0028	3.46E-23
acetylcarnitine	rs1171616	T	G	0.0279	0.0028	3.42E-23
acetylcarnitine	rs1171615	T	C	0.0279	0.0028	3.40E-23
acetylcarnitine	rs1171614	T	C	-0.0279	0.0028	3.38E-23
adrenate	rs11757776	C	G	0.0154	0.0035	9.63E-06

adrenate	rs17203317	T	G	-0.0739	0.0166	8.81E-06
adrenate	rs174626	A	G	0.0152	0.0034	8.68E-06
adrenate	rs12159536	T	C	-0.052	0.0117	8.18E-06
adrenate	rs11784756	T	C	0.0272	0.0061	8.05E-06
adrenate	rs6006238	T	C	-0.0521	0.0117	7.98E-06
adrenate	rs6006239	A	G	-0.0521	0.0117	7.89E-06
adrenate	rs11620434	A	C	0.033	0.0074	7.31E-06
adrenate	rs11761213	T	G	0.0162	0.0036	7.25E-06
adrenate	rs12531203	T	C	-0.0162	0.0036	7.24E-06
adrenate	rs11206335	A	G	-0.0268	0.006	6.72E-06
adrenate	rs2521567	A	G	-0.0154	0.0034	6.50E-06
adrenate	rs6006250	T	C	-0.0532	0.0118	6.49E-06
adrenate	rs831471	A	G	-0.0162	0.0036	6.44E-06
adrenate	rs174611	T	C	0.016	0.0035	6.14E-06
adrenate	rs1689956	T	G	0.0255	0.0056	5.39E-06
adrenate	rs422249	T	C	-0.0159	0.0035	5.00E-06
adrenate	rs174450	T	G	0.0156	0.0034	4.81E-06
adrenate	rs174616	A	G	-0.0155	0.0034	4.51E-06
adrenate	rs1689955	T	C	0.0258	0.0056	4.29E-06
adrenate	rs2845573	A	G	0.0274	0.0059	3.63E-06
adrenate	rs2526678	A	G	-0.0281	0.0061	3.62E-06
adrenate	rs13192201	A	T	0.0165	0.0035	2.34E-06
adrenate	rs7812874	T	C	-0.0255	0.0053	1.41E-06
adrenate	rs174583	T	C	-0.0297	0.0061	1.03E-06
adrenate	rs174605	T	G	-0.0174	0.0036	9.02E-07
adrenate	rs6987121	A	G	-0.0263	0.0053	7.59E-07
adrenate	rs12359572	T	G	0.0177	0.0036	6.26E-07
adrenate	rs2851682	A	G	0.0272	0.0054	4.94E-07

adrenate	rs174449	A	G	0.0181	0.0035	2.48E-07
adrenate	rs968567	T	C	-0.0232	0.0044	1.45E-07
adrenate	rs2524299	A	T	0.0279	0.0051	5.21E-08
adrenate	rs174448	A	G	0.0188	0.0035	5.20E-08
adrenate	rs2727271	A	T	0.0299	0.0051	5.53E-09
adrenate	rs2727270	T	C	-0.0299	0.0051	5.41E-09
adrenate	rs2072114	A	G	0.0268	0.0045	2.75E-09
adrenate	rs149803	C	G	-0.0276	0.0045	7.05E-10
adrenate	rs174589	C	G	0.0281	0.0043	4.92E-11
adrenate	rs174585	A	G	-0.0287	0.0043	3.32E-11
adrenate	rs174591	A	T	-0.0285	0.0042	1.46E-11
adrenate	rs174570	T	C	-0.032	0.0045	1.36E-12
adrenate	rs174532	A	G	0.0275	0.0037	9.11E-14
adrenate	rs174579	T	C	-0.0275	0.0036	3.82E-14
adrenate	rs174575	C	G	0.0302	0.0036	3.03E-17
adrenate	rs174534	A	G	0.0295	0.0034	8.55E-18
adrenate	rs174548	C	G	0.0318	0.0035	6.81E-20
adrenate	rs108499	T	C	-0.0314	0.0034	6.48E-20
adrenate	rs174549	A	G	-0.0319	0.0035	6.19E-20
adrenate	rs174556	T	C	-0.0321	0.0035	4.08E-20
adrenate	rs174555	T	C	0.0321	0.0035	4.08E-20
adrenate	rs174538	A	G	-0.0328	0.0035	5.60E-21
adrenate	rs174528	T	C	0.0327	0.0034	8.91E-22
adrenate	rs174578	A	T	-0.0331	0.0034	8.12E-22
adrenate	rs174576	A	C	-0.0331	0.0034	7.72E-22
adrenate	rs4246215	T	G	-0.0332	0.0034	4.25E-22
adrenate	rs174577	A	C	-0.0335	0.0035	3.19E-22
adrenate	rs174601	T	C	-0.0339	0.0035	2.53E-22

adrenate	rs174541	T	C	0.0336	0.0034	1.32E-22
adrenate	rs174574	A	C	-0.034	0.0034	6.07E-23
adrenate	rs102275	T	C	0.0341	0.0035	5.19E-23
adrenate	rs174537	T	G	-0.0341	0.0035	5.19E-23
adrenate	rs174536	A	C	0.0341	0.0035	5.18E-23
adrenate	rs1535	A	G	0.0341	0.0034	5.18E-23
adrenate	rs174535	T	C	0.0341	0.0035	5.17E-23
adrenate	rs174546	T	C	-0.0341	0.0034	4.85E-23
adrenate	rs174545	C	G	0.0341	0.0034	4.83E-23
adrenate	rs174547	T	C	0.034	0.0034	4.56E-23
adrenate	rs174550	T	C	0.0347	0.0034	6.79E-24
alanine	rs1451333	A	G	-0.0078	0.0018	9.99E-06
alanine	rs3737097	T	C	0.0077	0.0017	9.89E-06
alanine	rs2762343	A	G	0.0077	0.0017	9.63E-06
alanine	rs1850267	T	C	0.0079	0.0018	9.56E-06
alanine	rs2150912	A	G	-0.0077	0.0017	9.24E-06
alanine	rs9462828	A	T	0.0077	0.0017	9.19E-06
alanine	rs9367164	A	G	0.0077	0.0017	9.17E-06
alanine	rs890231	A	G	0.0078	0.0018	9.04E-06
alanine	rs13030973	T	C	-0.0109	0.0024	8.32E-06
alanine	rs1858113	A	C	-0.008	0.0018	8.29E-06
alanine	rs10493693	T	G	0.0256	0.0057	8.02E-06
alanine	rs10211524	A	G	-0.0104	0.0023	7.99E-06
alanine	rs4317609	A	G	-0.0079	0.0018	7.98E-06
alanine	rs6582678	T	C	-0.0079	0.0018	7.89E-06
alanine	rs2465602	A	G	-0.0079	0.0018	7.80E-06
alanine	rs1348600	T	C	0.0115	0.0026	7.65E-06
alanine	rs6497167	T	G	0.0079	0.0018	7.64E-06

alanine	rs6706043	T	G	-0.0079	0.0018	7.33E-06
alanine	rs7993171	A	G	-0.0209	0.0047	7.33E-06
alanine	rs790732	A	G	-0.0106	0.0024	7.32E-06
alanine	rs4722004	T	C	0.0079	0.0018	7.30E-06
alanine	rs1997391	T	C	0.0079	0.0018	7.17E-06
alanine	rs9876174	T	C	0.0117	0.0026	7.00E-06
alanine	rs6461542	A	T	-0.0079	0.0018	6.95E-06
alanine	rs282152	A	G	-0.009	0.002	6.80E-06
alanine	rs2295689	A	G	-0.009	0.002	6.80E-06
alanine	rs785896	A	G	0.009	0.002	6.80E-06
alanine	rs10737153	A	C	0.0079	0.0017	6.73E-06
alanine	rs10086950	A	C	-0.008	0.0018	6.47E-06
alanine	rs10018581	T	C	0.0119	0.0026	6.43E-06
alanine	rs4405401	T	C	0.0079	0.0017	6.08E-06
alanine	rs1440327	T	C	-0.0082	0.0018	6.00E-06
alanine	rs11183644	T	G	0.0079	0.0017	5.82E-06
alanine	rs2316866	T	G	0.0085	0.0019	5.82E-06
alanine	rs6962350	T	G	0.008	0.0018	5.68E-06
alanine	rs421802	T	C	0.0079	0.0017	5.57E-06
alanine	rs9866434	A	T	0.008	0.0018	5.55E-06
alanine	rs998532	A	G	0.008	0.0018	5.36E-06
alanine	rs12466960	C	G	0.008	0.0018	5.32E-06
alanine	rs4650566	A	C	-0.0261	0.0057	5.32E-06
alanine	rs211962	T	C	-0.012	0.0026	5.31E-06
alanine	rs745358	T	C	-0.0108	0.0024	5.25E-06
alanine	rs12445569	A	G	0.0081	0.0018	5.24E-06
alanine	rs4650565	A	G	0.0261	0.0057	5.11E-06
alanine	rs8141975	T	C	-0.0226	0.0049	5.04E-06

alanine	rs9646969	T	G	-0.008	0.0018	5.03E-06
alanine	rs7929841	T	C	0.0081	0.0018	4.99E-06
alanine	rs485878	A	G	-0.0081	0.0018	4.67E-06
alanine	rs4650564	T	C	0.0263	0.0057	4.62E-06
alanine	rs790742	A	G	-0.0109	0.0024	4.56E-06
alanine	rs1566951	T	C	-0.0082	0.0018	4.52E-06
alanine	rs2064272	A	G	-0.0082	0.0018	4.49E-06
alanine	rs790733	T	C	0.0108	0.0024	4.47E-06
alanine	rs10752562	A	G	-0.008	0.0017	4.30E-06
alanine	rs3740643	A	C	-0.008	0.0017	4.24E-06
alanine	rs7137439	A	C	0.008	0.0017	4.19E-06
alanine	rs6734059	T	C	0.0114	0.0025	4.14E-06
alanine	rs6839120	A	G	0.0082	0.0018	4.03E-06
alanine	rs10173720	A	T	0.0114	0.0025	3.90E-06
alanine	rs4665385	T	C	-0.0119	0.0026	3.84E-06
alanine	rs2141371	A	G	0.0109	0.0024	3.84E-06
alanine	rs4665386	A	C	-0.0119	0.0026	3.61E-06
alanine	rs790738	T	C	-0.0109	0.0024	3.44E-06
alanine	rs703459	A	G	-0.0109	0.0024	3.43E-06
alanine	rs13023094	A	C	-0.0114	0.0024	3.16E-06
alanine	rs790741	A	G	-0.011	0.0024	3.10E-06
alanine	rs6053126	A	G	-0.014	0.003	3.06E-06
alanine	rs340657	T	C	0.0081	0.0017	3.06E-06
alanine	rs768732	A	G	0.011	0.0024	3.01E-06
alanine	rs768731	A	C	-0.011	0.0024	2.99E-06
alanine	rs4980554	A	G	0.0082	0.0017	2.87E-06
alanine	rs11704957	A	C	-0.0231	0.0049	2.85E-06
alanine	rs17106668	T	C	-0.0269	0.0057	2.73E-06

alanine	rs7191435	T	C	0.0084	0.0018	2.53E-06
alanine	rs1881394	A	G	-0.0121	0.0026	2.45E-06
alanine	rs4980555	C	G	0.0083	0.0017	2.30E-06
alanine	rs6547735	T	C	0.0136	0.0029	2.29E-06
alanine	rs6727388	A	G	-0.0116	0.0025	2.19E-06
alanine	rs6704596	A	G	0.0118	0.0025	2.19E-06
alanine	rs4616435	T	C	0.0116	0.0025	2.18E-06
alanine	rs3811644	A	G	0.0118	0.0025	2.18E-06
alanine	rs6727215	A	G	0.0116	0.0025	2.16E-06
alanine	rs965813	A	T	-0.0118	0.0025	2.15E-06
alanine	rs3989940	T	C	-0.0082	0.0017	2.08E-06
alanine	rs879493	T	C	-0.0084	0.0018	2.08E-06
alanine	rs1919129	C	G	0.0118	0.0025	1.99E-06
alanine	rs2141372	T	G	-0.0118	0.0025	1.85E-06
alanine	rs339805	T	G	0.0084	0.0018	1.73E-06
alanine	rs12532023	C	G	0.0162	0.0034	1.73E-06
alanine	rs1555794	T	C	-0.0084	0.0017	1.70E-06
alanine	rs12406028	C	G	0.0083	0.0017	1.67E-06
alanine	rs7712111	A	G	0.0084	0.0018	1.63E-06
alanine	rs1472935	A	T	0.0086	0.0018	1.62E-06
alanine	rs7571558	C	G	0.0119	0.0025	1.60E-06
alanine	rs1289671	A	G	-0.0084	0.0018	1.56E-06
alanine	rs11652554	T	C	0.0087	0.0018	1.52E-06
alanine	rs2272406	A	T	-0.0118	0.0024	1.52E-06
alanine	rs9582849	A	G	0.02	0.0041	1.34E-06
alanine	rs3761981	A	C	-0.0086	0.0018	1.27E-06
alanine	rs7755022	A	G	0.0086	0.0018	1.18E-06
alanine	rs1469272	A	C	0.0086	0.0018	1.09E-06

alanine	rs890228	A	G	0.0086	0.0018	1.06E-06
alanine	rs890230	T	C	0.0086	0.0018	1.06E-06
alanine	rs1562830	T	C	0.0165	0.0034	9.78E-07
alanine	rs12532144	A	G	0.0165	0.0034	9.76E-07
alanine	rs7777038	A	C	0.0165	0.0034	9.76E-07
alanine	rs4587804	A	G	-0.0086	0.0018	9.52E-07
alanine	rs11893991	A	G	0.0089	0.0018	8.89E-07
alanine	rs17106647	T	C	0.0282	0.0057	8.85E-07
alanine	rs7963807	A	G	-0.0086	0.0018	8.54E-07
alanine	rs2859420	T	C	-0.0087	0.0018	8.39E-07
alanine	rs651158	A	G	0.0087	0.0018	8.12E-07
alanine	rs4666000	T	C	-0.0117	0.0024	8.10E-07
alanine	rs2068834	T	C	-0.0117	0.0024	8.01E-07
alanine	rs3817588	T	C	0.0127	0.0026	7.35E-07
alanine	rs7791060	A	G	-0.0167	0.0034	6.96E-07
alanine	rs7968752	T	G	-0.0087	0.0018	6.91E-07
alanine	rs17520130	T	C	-0.0088	0.0018	6.85E-07
alanine	rs465152	A	G	-0.0087	0.0017	6.45E-07
alanine	rs2465216	T	C	-0.0088	0.0018	6.31E-07
alanine	rs10208529	A	T	-0.0119	0.0024	6.30E-07
alanine	rs4665382	T	C	-0.0119	0.0024	6.26E-07
alanine	rs1919127	T	C	-0.0119	0.0024	6.21E-07
alanine	rs1919128	A	G	-0.0119	0.0024	6.20E-07
alanine	rs12478841	A	G	-0.0119	0.0024	5.96E-07
alanine	rs7974413	T	C	-0.0088	0.0018	5.96E-07
alanine	rs6760250	A	G	0.0119	0.0024	5.95E-07
alanine	rs4665991	A	G	0.0119	0.0024	5.95E-07
alanine	rs13022873	A	C	-0.0119	0.0024	5.88E-07

alanine	rs4665383	C	G	-0.012	0.0024	5.83E-07
alanine	rs4665987	A	G	0.0119	0.0024	5.79E-07
alanine	rs1376493	T	C	-0.0089	0.0018	5.54E-07
alanine	rs1562864	A	G	0.0089	0.0018	5.53E-07
alanine	rs6483507	A	G	-0.0089	0.0018	5.51E-07
alanine	rs2384656	A	G	-0.0119	0.0024	5.38E-07
alanine	rs10881004	T	C	0.0087	0.0017	5.28E-07
alanine	rs7953233	A	T	-0.0088	0.0017	4.97E-07
alanine	rs11183625	T	C	-0.0087	0.0017	4.94E-07
alanine	rs4374015	T	C	-0.0087	0.0017	4.93E-07
alanine	rs1452269	A	G	-0.0089	0.0018	3.84E-07
alanine	rs2263487	T	C	-0.0088	0.0017	3.68E-07
alanine	rs1376492	A	T	0.009	0.0018	3.59E-07
alanine	rs2465207	A	T	-0.0089	0.0017	3.03E-07
alanine	rs11183630	A	G	-0.009	0.0018	2.94E-07
alanine	rs12467476	T	C	-0.0126	0.0024	1.38E-07
alanine	rs814295	A	G	0.0136	0.0026	1.36E-07
alanine	rs703462	C	G	0.0093	0.0018	1.06E-07
alanine	rs7967842	T	G	-0.0093	0.0018	1.06E-07
alanine	rs780092	A	G	0.0138	0.0026	8.74E-08
alanine	rs7954772	A	T	0.0094	0.0018	8.67E-08
alanine	rs7963399	T	C	0.0095	0.0018	5.83E-08
alanine	rs13002853	C	G	-0.0131	0.0024	4.39E-08
alanine	rs11183620	A	G	0.0098	0.0017	1.55E-08
alanine	rs1260333	A	G	0.0111	0.0017	1.75E-10
alanine	rs2911711	A	T	-0.0119	0.0017	9.20E-12
alanine	rs780093	T	C	0.0127	0.0017	2.80E-13
alanine	rs780094	T	C	0.0129	0.0018	1.56E-13

alanine	rs1260326	T	C	0.0131	0.0017	5.56E-14
allantoin	rs13217476	T	C	0.0203	0.0046	9.84E-06
allantoin	rs8184921	T	C	0.0165	0.0037	9.80E-06
allantoin	rs35351	A	G	0.0167	0.0038	8.94E-06
allantoin	rs35352	A	G	0.0167	0.0038	8.91E-06
allantoin	rs10492266	T	C	-0.0167	0.0038	8.78E-06
allantoin	rs11147404	T	G	0.0282	0.0063	8.69E-06
allantoin	rs2549842	T	C	-0.0206	0.0046	8.68E-06
allantoin	rs1881939	T	C	0.1057	0.0237	8.44E-06
allantoin	rs300480	A	C	-0.0206	0.0046	8.23E-06
allantoin	rs300482	A	G	-0.0207	0.0046	8.16E-06
allantoin	rs167277	A	C	-0.0207	0.0046	7.92E-06
allantoin	rs1499094	T	G	0.0208	0.0046	7.68E-06
allantoin	rs17670629	A	G	0.0206	0.0046	7.46E-06
allantoin	rs10099629	C	G	0.0206	0.0046	6.98E-06
allantoin	rs972709	A	C	0.0483	0.0107	6.73E-06
allantoin	rs13257578	C	G	-0.0246	0.0054	5.83E-06
allantoin	rs9838937	A	G	-0.017	0.0037	5.80E-06
allantoin	rs10094936	A	G	-0.0211	0.0046	5.71E-06
allantoin	rs1447307	T	G	-0.0211	0.0046	5.69E-06
allantoin	rs1451071	A	G	0.0209	0.0046	5.68E-06
allantoin	rs4579742	A	T	0.029	0.0064	5.16E-06
allantoin	rs12189555	A	T	0.021	0.0046	5.06E-06
allantoin	rs7623728	T	C	-0.0172	0.0037	4.30E-06
allantoin	rs1881940	T	G	0.1034	0.0224	3.97E-06
allantoin	rs2293319	T	C	-0.0219	0.0047	3.59E-06
allantoin	rs1431793	A	C	-0.0216	0.0046	2.90E-06
allantoin	rs1799412	C	G	-0.0262	0.0055	2.28E-06

allantoin	rs12132798	C	G	0.0615	0.013	2.09E-06
allantoin	rs12126346	C	G	-0.0615	0.013	2.09E-06
allantoin	rs1320934	A	T	0.1215	0.0253	1.51E-06
allantoin	rs12718598	T	C	0.018	0.0037	1.49E-06
allantoin	rs7301836	T	G	0.0225	0.0046	1.09E-06
allantoin	rs10505968	T	C	0.0227	0.0046	9.23E-07
allantoin	rs9834988	T	C	0.0185	0.0038	7.98E-07
allantoin	rs7301856	T	C	0.0229	0.0046	7.55E-07
allantoin	rs10842570	T	C	0.0229	0.0046	7.53E-07
allantoin	rs7135011	T	C	0.0229	0.0046	7.44E-07
allantoin	rs11830780	A	T	-0.0229	0.0046	7.44E-07
allantoin	rs8108144	T	G	-0.0232	0.0047	6.44E-07
allantoin	rs10505969	A	T	0.023	0.0046	6.42E-07
allantoin	rs10842571	T	C	0.0232	0.0047	6.40E-07
allantoin	rs7959386	A	G	0.0237	0.0046	2.89E-07
allantoin	rs10771223	A	G	0.0237	0.0046	2.87E-07
arabinose	rs33976862	C	G	0.0602	0.0135	7.76E-06
arabinose	rs13141546	A	T	-0.0766	0.0171	7.31E-06
arabinose	rs7790791	T	C	0.0594	0.013	4.67E-06
arabinose	rs2313872	T	G	-0.1966	0.0425	3.83E-06
arabinose	rs12091176	A	G	0.127	0.0271	2.81E-06
arabinose	rs491459	C	G	-0.025	0.0053	2.34E-06
arabinose	rs12426131	A	G	0.0246	0.0051	1.68E-06
arabinose	rs526744	T	C	-0.021	0.0042	7.14E-07
arginine	rs12127977	C	G	-0.0153	0.0035	9.79E-06
arginine	rs6479442	A	C	0.0101	0.0023	9.59E-06
arginine	rs2916142	T	C	-0.0101	0.0023	9.38E-06
arginine	rs2916148	A	G	-0.0101	0.0023	9.24E-06

arginine	rs7036499	T	C	0.0217	0.0049	8.86E-06
arginine	rs12985777	T	C	-0.0141	0.0032	8.86E-06
arginine	rs10921131	T	C	-0.0137	0.0031	7.92E-06
arginine	rs2933871	A	G	0.0178	0.004	7.65E-06
arginine	rs1335103	A	C	0.0103	0.0023	7.62E-06
arginine	rs1577376	T	G	-0.0103	0.0023	7.61E-06
arginine	rs9537490	T	C	0.0103	0.0023	7.60E-06
arginine	rs2050400	A	G	-0.0103	0.0023	7.60E-06
arginine	rs10922038	T	C	0.0102	0.0023	7.57E-06
arginine	rs6920504	T	C	-0.0135	0.003	7.53E-06
arginine	rs7319121	T	G	0.0103	0.0023	7.52E-06
arginine	rs4513233	A	G	-0.0134	0.003	7.50E-06
arginine	rs16844874	T	C	0.0134	0.003	7.50E-06
arginine	rs7989726	T	G	0.0103	0.0023	7.48E-06
arginine	rs12061159	A	T	-0.0138	0.0031	7.34E-06
arginine	rs7535809	A	G	0.0138	0.0031	7.28E-06
arginine	rs9569548	T	C	0.0103	0.0023	7.25E-06
arginine	rs6141934	A	G	-0.0104	0.0023	7.23E-06
arginine	rs2965214	A	G	0.0105	0.0023	7.04E-06
arginine	rs2293683	A	G	-0.0105	0.0023	7.03E-06
arginine	rs17706531	A	G	0.0105	0.0023	6.97E-06
arginine	rs901271	C	G	-0.0104	0.0023	6.96E-06
arginine	rs860762	T	C	0.0117	0.0026	6.69E-06
arginine	rs12900341	A	G	-0.0104	0.0023	6.63E-06
arginine	rs4984288	T	C	-0.0104	0.0023	6.59E-06
arginine	rs4984286	T	C	-0.0104	0.0023	6.55E-06
arginine	rs901272	A	C	-0.0105	0.0023	6.49E-06
arginine	rs837763	T	C	0.0114	0.0025	6.03E-06

arginine	rs11115059	A	G	0.0294	0.0065	6.02E-06
arginine	rs12618928	T	C	0.0105	0.0023	5.28E-06
arginine	rs518709	T	C	0.0106	0.0023	4.69E-06
arginine	rs720118	T	C	-0.0105	0.0023	4.55E-06
arginine	rs16844839	T	C	-0.0138	0.003	4.51E-06
arginine	rs10490322	T	C	-0.0136	0.003	4.31E-06
arginine	rs10490323	A	G	-0.0136	0.003	4.31E-06
arginine	rs3815630	T	C	0.0136	0.003	4.31E-06
arginine	rs16844862	T	C	-0.0136	0.003	4.29E-06
arginine	rs1153903	A	G	-0.0106	0.0023	4.19E-06
arginine	rs12714263	A	G	-0.0107	0.0023	3.98E-06
arginine	rs3861164	A	T	0.0107	0.0023	3.45E-06
arginine	rs7717247	A	C	0.0162	0.0035	3.35E-06
arginine	rs790780	A	G	0.0108	0.0023	3.18E-06
arginine	rs299518	A	C	-0.0108	0.0023	3.14E-06
arginine	rs4242998	A	T	-0.0107	0.0023	3.10E-06
arginine	rs9527546	A	G	0.0108	0.0023	3.02E-06
arginine	rs182451	A	C	-0.0108	0.0023	3.01E-06
arginine	rs10490325	C	G	0.014	0.003	2.94E-06
arginine	rs10206976	T	G	-0.014	0.003	2.74E-06
arginine	rs1413999	A	C	0.0108	0.0023	2.73E-06
arginine	rs1335105	A	T	-0.0109	0.0023	2.51E-06
arginine	rs2781668	T	C	0.0174	0.0037	2.44E-06
arginine	rs790776	T	C	0.0109	0.0023	2.41E-06
arginine	rs3011362	A	G	-0.0349	0.0074	2.37E-06
arginine	rs6561898	A	C	0.0109	0.0023	2.32E-06
arginine	rs6059244	A	G	0.0109	0.0023	2.28E-06
arginine	rs6561901	A	G	-0.0109	0.0023	2.25E-06

arginine	rs2180566	T	C	-0.0109	0.0023	2.11E-06
arginine	rs6561899	A	T	0.011	0.0023	1.84E-06
arginine	rs11114987	T	C	-0.0324	0.0067	1.41E-06
arginine	rs2216405	A	G	0.0145	0.003	1.08E-06
arginine	rs511304	A	C	0.0191	0.0039	1.01E-06
arginine	rs715	T	C	0.0144	0.0028	2.90E-07
arginine	rs2246012	T	C	-0.0166	0.0032	2.23E-07
asparagine	rs12934550	A	G	-0.0079	0.0018	9.99E-06
asparagine	rs12934578	A	G	-0.0079	0.0018	9.98E-06
asparagine	rs8432	A	G	0.0079	0.0018	9.67E-06
asparagine	rs13269603	T	C	-0.0114	0.0026	9.61E-06
asparagine	rs724247	A	T	-0.0113	0.0026	9.54E-06
asparagine	rs6947443	T	C	0.0079	0.0018	9.49E-06
asparagine	rs2530162	T	G	0.0079	0.0018	9.40E-06
asparagine	rs520306	T	C	0.0147	0.0033	9.33E-06
asparagine	rs512721	A	G	-0.0147	0.0033	9.28E-06
asparagine	rs11154277	T	G	-0.0079	0.0018	9.24E-06
asparagine	rs2178198	T	C	-0.0118	0.0026	8.93E-06
asparagine	rs11863922	A	G	0.0115	0.0026	8.68E-06
asparagine	rs4701742	T	C	-0.0079	0.0018	8.65E-06
asparagine	rs1957025	A	G	-0.0079	0.0018	8.61E-06
asparagine	rs17123860	A	G	-0.0554	0.0125	8.60E-06
asparagine	rs12327010	A	G	-0.0105	0.0024	8.45E-06
asparagine	rs3776434	A	C	-0.0079	0.0018	8.44E-06
asparagine	rs3756429	A	G	-0.0079	0.0018	8.43E-06
asparagine	rs735812	T	C	0.0116	0.0026	8.37E-06
asparagine	rs7681514	A	G	-0.0079	0.0018	8.31E-06
asparagine	rs7840898	T	G	0.0115	0.0026	8.23E-06

asparagine	rs7822643	A	G	0.0115	0.0026	8.14E-06
asparagine	rs2628438	A	G	0.008	0.0018	8.12E-06
asparagine	rs2976480	A	C	0.0802	0.018	8.00E-06
asparagine	rs10454287	A	T	-0.008	0.0018	7.96E-06
asparagine	rs12241172	T	C	0.0082	0.0018	7.58E-06
asparagine	rs17123845	T	C	0.0568	0.0127	7.45E-06
asparagine	rs8548	A	C	0.0108	0.0024	7.33E-06
asparagine	rs1450700	A	G	-0.0568	0.0126	7.06E-06
asparagine	rs1450699	A	G	-0.0568	0.0126	7.05E-06
asparagine	rs17123849	T	C	-0.0568	0.0126	7.03E-06
asparagine	rs8014422	A	G	0.0568	0.0126	7.02E-06
asparagine	rs7445640	T	G	0.008	0.0018	6.95E-06
asparagine	rs1324707	A	G	-0.009	0.002	6.80E-06
asparagine	rs1797387	A	G	-0.008	0.0018	6.71E-06
asparagine	rs2631738	A	G	-0.0079	0.0018	6.68E-06
asparagine	rs8014705	A	G	0.052	0.0115	6.46E-06
asparagine	rs716764	T	C	-0.0117	0.0026	6.46E-06
asparagine	rs1229560	C	G	-0.008	0.0018	6.28E-06
asparagine	rs1229540	A	G	0.008	0.0018	6.24E-06
asparagine	rs12136030	T	C	-0.008	0.0018	6.23E-06
asparagine	rs12149693	A	T	0.0116	0.0026	6.21E-06
asparagine	rs10503601	T	C	-0.0214	0.0047	6.17E-06
asparagine	rs13174601	T	C	0.0604	0.0134	6.15E-06
asparagine	rs17019962	A	G	-0.0117	0.0026	6.15E-06
asparagine	rs2530156	A	G	-0.0083	0.0018	5.26E-06
asparagine	rs11778747	T	C	-0.0194	0.0043	5.25E-06
asparagine	rs16943890	T	C	0.0117	0.0026	5.14E-06
asparagine	rs313125	A	G	-0.0117	0.0026	5.13E-06

asparagine	rs2513039	T	C	0.0081	0.0018	4.85E-06
asparagine	rs834840	T	C	0.0116	0.0025	4.83E-06
asparagine	rs7198334	T	C	-0.0117	0.0026	4.80E-06
asparagine	rs6657621	T	C	0.0081	0.0018	4.77E-06
asparagine	rs1570536	T	C	-0.0081	0.0018	4.75E-06
asparagine	rs1535704	A	T	0.0081	0.0018	4.74E-06
asparagine	rs2761243	T	C	-0.0081	0.0018	4.74E-06
asparagine	rs936755	A	C	0.0081	0.0018	4.74E-06
asparagine	rs3737899	T	G	-0.0081	0.0018	4.68E-06
asparagine	rs2688230	T	C	0.0081	0.0018	4.56E-06
asparagine	rs2688228	T	C	0.0081	0.0018	4.42E-06
asparagine	rs780094	T	C	-0.0081	0.0018	4.39E-06
asparagine	rs16848001	T	C	-0.0199	0.0043	4.39E-06
asparagine	rs834841	T	C	0.0117	0.0025	4.36E-06
asparagine	rs2113187	A	T	0.0117	0.0026	4.34E-06
asparagine	rs431057	A	C	-0.0082	0.0018	4.32E-06
asparagine	rs4888479	A	G	0.0117	0.0025	4.24E-06
asparagine	rs4906356	T	C	-0.0111	0.0024	4.03E-06
asparagine	rs3212090	T	C	-0.0111	0.0024	4.02E-06
asparagine	rs13259125	T	C	-0.0082	0.0018	4.02E-06
asparagine	rs4900590	T	C	-0.0111	0.0024	3.99E-06
asparagine	rs7632237	A	G	0.0117	0.0025	3.93E-06
asparagine	rs780093	T	C	-0.0081	0.0018	3.91E-06
asparagine	rs2273175	T	C	0.0111	0.0024	3.82E-06
asparagine	rs2245730	A	C	-0.0082	0.0018	3.82E-06
asparagine	rs1416239	T	C	0.0082	0.0018	3.69E-06
asparagine	rs1338576	T	C	-0.0082	0.0018	3.69E-06
asparagine	rs12663966	A	T	-0.0083	0.0018	3.64E-06

asparagine	rs4896596	T	C	0.0082	0.0018	3.64E-06
asparagine	rs7626250	T	C	-0.0118	0.0025	3.58E-06
asparagine	rs3842942	T	C	0.0119	0.0026	3.56E-06
asparagine	rs3818852	A	T	-0.0082	0.0018	3.56E-06
asparagine	rs11846404	C	G	0.0111	0.0024	3.36E-06
asparagine	rs2463822	T	C	-0.0151	0.0032	3.13E-06
asparagine	rs1528730	A	C	-0.0151	0.0032	3.00E-06
asparagine	rs2513747	T	C	-0.0152	0.0032	2.92E-06
asparagine	rs2911711	A	T	0.0083	0.0018	2.85E-06
asparagine	rs6679985	C	G	0.0083	0.0018	2.72E-06
asparagine	rs6674294	T	C	-0.0084	0.0018	2.72E-06
asparagine	rs6683094	A	G	0.0084	0.0018	2.72E-06
asparagine	rs2513038	A	C	-0.0152	0.0032	2.66E-06
asparagine	rs4305952	C	G	0.0084	0.0018	2.65E-06
asparagine	rs1229569	A	G	-0.0116	0.0025	2.65E-06
asparagine	rs11126005	A	G	0.0083	0.0018	2.61E-06
asparagine	rs2246920	T	G	-0.0155	0.0033	2.61E-06
asparagine	rs2140336	A	G	0.0083	0.0018	2.52E-06
asparagine	rs2002860	C	G	0.0083	0.0018	2.52E-06
asparagine	rs1287505	A	G	0.0083	0.0018	2.52E-06
asparagine	rs11865240	T	G	-0.0085	0.0018	2.38E-06
asparagine	rs4908005	T	G	0.0084	0.0018	2.28E-06
asparagine	rs1785640	T	C	-0.0085	0.0018	2.25E-06
asparagine	rs1034145	A	C	0.0084	0.0018	2.24E-06
asparagine	rs2372474	A	G	0.0083	0.0018	2.24E-06
asparagine	rs1287514	A	G	0.0084	0.0018	2.23E-06
asparagine	rs1287515	A	G	-0.0084	0.0018	2.23E-06
asparagine	rs1287516	C	G	0.0084	0.0018	2.23E-06

asparagine	rs978356	A	G	0.0084	0.0018	2.22E-06
asparagine	rs1298226	T	C	-0.0084	0.0018	2.22E-06
asparagine	rs1287570	A	G	0.0084	0.0018	2.21E-06
asparagine	rs1229541	A	C	-0.0117	0.0025	2.18E-06
asparagine	rs1229543	T	C	-0.0117	0.0025	2.17E-06
asparagine	rs2292503	A	G	0.0084	0.0018	2.12E-06
asparagine	rs1331646	A	G	0.0084	0.0018	2.11E-06
asparagine	rs1146979	A	C	0.0084	0.0018	2.11E-06
asparagine	rs1974562	T	C	-0.0117	0.0025	2.09E-06
asparagine	rs1146963	T	C	0.0084	0.0018	2.08E-06
asparagine	rs2631763	A	G	-0.0083	0.0018	2.06E-06
asparagine	rs954271	A	G	0.0084	0.0018	2.05E-06
asparagine	rs984441	A	G	-0.0085	0.0018	2.03E-06
asparagine	rs1146964	A	C	0.0084	0.0018	2.01E-06
asparagine	rs1757432	T	C	0.0084	0.0018	1.99E-06
asparagine	rs1478872	A	G	0.0084	0.0018	1.99E-06
asparagine	rs2631766	C	G	0.0084	0.0018	1.93E-06
asparagine	rs1287554	A	G	0.0084	0.0018	1.86E-06
asparagine	rs1287574	A	G	0.0084	0.0018	1.86E-06
asparagine	rs1287553	T	G	0.0084	0.0018	1.86E-06
asparagine	rs1287572	A	C	0.0084	0.0018	1.86E-06
asparagine	rs1287555	T	C	-0.0084	0.0018	1.86E-06
asparagine	rs1287551	T	C	0.0084	0.0018	1.85E-06
asparagine	rs1146962	T	C	-0.0085	0.0018	1.79E-06
asparagine	rs10444467	T	C	0.0086	0.0018	1.71E-06
asparagine	rs188611	A	G	0.0085	0.0018	1.67E-06
asparagine	rs11614753	T	C	-0.0958	0.02	1.60E-06
asparagine	rs6999788	A	T	0.0086	0.0018	1.57E-06

asparagine	rs1600057	T	C	0.0122	0.0025	1.56E-06
asparagine	rs1146975	A	G	0.0085	0.0018	1.55E-06
asparagine	rs1028777	A	C	-0.0086	0.0018	1.52E-06
asparagine	rs12824366	A	G	0.0086	0.0018	1.48E-06
asparagine	rs11828383	T	C	-0.0157	0.0033	1.47E-06
asparagine	rs4906376	A	C	0.0088	0.0018	1.31E-06
asparagine	rs1968814	T	C	0.0117	0.0024	1.12E-06
asparagine	rs7161226	A	C	-0.0652	0.0134	1.10E-06
asparagine	rs941948	A	G	0.0128	0.0026	1.07E-06
asparagine	rs2511224	T	C	-0.0087	0.0018	1.06E-06
asparagine	rs10133399	A	T	0.0115	0.0024	1.06E-06
asparagine	rs10747644	A	G	0.0087	0.0018	1.02E-06
asparagine	rs3847847	T	C	-0.0087	0.0018	1.02E-06
asparagine	rs6580890	A	G	-0.0087	0.0018	9.70E-07
asparagine	rs12833456	T	C	0.0087	0.0018	9.54E-07
asparagine	rs2153557	C	G	-0.0401	0.0082	9.42E-07
asparagine	rs4103862	A	G	-0.0087	0.0018	9.31E-07
asparagine	rs10876311	T	C	-0.0087	0.0018	9.23E-07
asparagine	rs2631767	A	T	-0.0088	0.0018	8.75E-07
asparagine	rs11170186	T	G	0.0087	0.0018	8.68E-07
asparagine	rs6737234	T	G	-0.0211	0.0043	8.66E-07
asparagine	rs6727893	A	G	0.0211	0.0043	8.65E-07
asparagine	rs6755681	T	C	-0.0211	0.0043	8.62E-07
asparagine	rs12822166	A	G	-0.0087	0.0018	8.48E-07
asparagine	rs2631769	A	G	-0.0087	0.0018	8.45E-07
asparagine	rs11170187	T	C	0.0087	0.0018	8.35E-07
asparagine	rs7956363	A	G	-0.0087	0.0018	8.35E-07
asparagine	rs7956582	A	G	-0.0087	0.0018	8.33E-07

asparagine	rs2631737	C	G	0.0087	0.0018	8.05E-07
asparagine	rs2688221	T	C	0.0087	0.0018	8.05E-07
asparagine	rs2631723	T	G	0.0087	0.0018	7.86E-07
asparagine	rs2688240	T	G	0.0087	0.0018	7.86E-07
asparagine	rs2513077	A	G	0.016	0.0032	7.77E-07
asparagine	rs12503034	A	G	0.0087	0.0018	7.42E-07
asparagine	rs12704947	A	T	-0.0089	0.0018	7.14E-07
asparagine	rs2665466	A	G	-0.0088	0.0018	7.10E-07
asparagine	rs1880025	A	G	0.0088	0.0018	7.05E-07
asparagine	rs1531507	A	G	0.0127	0.0026	6.67E-07
asparagine	rs1406384	T	C	0.0163	0.0033	6.35E-07
asparagine	rs2513737	C	G	0.0162	0.0032	6.04E-07
asparagine	rs11170195	T	C	0.0088	0.0018	5.99E-07
asparagine	rs11801253	A	G	-0.0094	0.0019	5.68E-07
asparagine	rs2245808	A	G	0.0088	0.0018	5.62E-07
asparagine	rs2511225	A	C	0.009	0.0018	5.53E-07
asparagine	rs2271101	A	G	-0.0088	0.0018	5.48E-07
asparagine	rs2513749	T	C	0.0163	0.0032	5.41E-07
asparagine	rs2513052	C	G	-0.0163	0.0032	5.41E-07
asparagine	rs1881535	T	C	0.0163	0.0032	5.38E-07
asparagine	rs2463836	A	G	-0.0163	0.0032	5.37E-07
asparagine	rs1049674	A	T	-0.0123	0.0025	5.28E-07
asparagine	rs17345286	T	C	0.0124	0.0025	5.07E-07
asparagine	rs2245515	T	C	0.0089	0.0018	4.89E-07
asparagine	rs11160770	T	G	0.0118	0.0023	4.88E-07
asparagine	rs2513037	A	T	0.0163	0.0032	4.84E-07
asparagine	rs954270	T	C	-0.0089	0.0018	4.42E-07
asparagine	rs2513071	A	C	-0.0167	0.0033	4.09E-07

asparagine	rs4690523	T	C	-0.009	0.0018	3.48E-07
asparagine	rs1338571	A	G	0.0091	0.0018	3.07E-07
asparagine	rs17157227	T	C	-0.0167	0.0033	3.07E-07
asparagine	rs10148180	C	G	-0.026	0.005	2.51E-07
asparagine	rs2631729	C	G	0.0091	0.0018	2.43E-07
asparagine	rs1744280	T	C	-0.0136	0.0026	2.32E-07
asparagine	rs7104149	A	G	0.0169	0.0033	1.93E-07
asparagine	rs1536873	A	G	-0.0093	0.0018	1.67E-07
asparagine	rs17791722	T	C	-0.0097	0.0018	5.76E-08
asparagine	rs722637	A	C	0.0097	0.0018	5.59E-08
asparagine	rs12885509	T	C	0.0097	0.0018	5.38E-08
asparagine	rs12883337	C	G	-0.0097	0.0018	5.34E-08
asparagine	rs10138768	A	G	0.0098	0.0018	4.81E-08
asparagine	rs12588797	T	C	0.0098	0.0018	4.32E-08
asparagine	rs1187417	T	C	-0.0099	0.0018	3.33E-08
asparagine	rs4906379	A	G	-0.0099	0.0018	3.31E-08
asparagine	rs3861678	A	G	-0.0099	0.0018	3.29E-08
asparagine	rs8015761	T	C	-0.0099	0.0018	2.81E-08
asparagine	rs2509973	A	C	-0.0099	0.0018	1.99E-08
asparagine	rs7119797	T	C	-0.0101	0.0018	1.01E-08
asparagine	rs3103098	C	G	0.0102	0.0018	8.40E-09
asparagine	rs4900597	T	C	-0.0104	0.0018	5.91E-09
asparagine	rs12891477	T	C	-0.0106	0.0018	4.31E-09
asparagine	rs3017098	A	G	0.0107	0.0018	1.48E-09
asparagine	rs10438243	A	G	-0.0108	0.0018	1.19E-09
asparagine	rs10438244	T	C	-0.0115	0.0018	1.88E-10
asparagine	rs6576010	A	G	-0.0116	0.0018	7.05E-11
asparagine	rs881057	T	G	-0.0116	0.0018	6.44E-11

asparagine	rs881056	A	G	0.0116	0.0018	6.44E-11
asparagine	rs8008020	T	C	-0.0117	0.0018	5.89E-11
asparagine	rs4144027	T	C	0.012	0.0018	1.33E-11
asparagine	rs4900601	T	C	-0.012	0.0018	1.24E-11
asparagine	rs4906421	A	G	0.019	0.002	2.10E-21
asparagine	rs1744286	A	G	0.029	0.003	4.18E-22
asparagine	rs941952	T	C	0.03	0.003	1.52E-23
asparagine	rs12587001	T	C	0.048	0.004	3.55E-33
asparagine	rs1744297	T	C	0.049	0.004	1.68E-34
asparagine	rs941954	A	G	0.0234	0.0019	4.52E-35
asparagine	rs737394	T	G	-0.05	0.004	7.47E-36
asparagine	rs2282377	C	G	-0.05	0.004	7.47E-36
asparagine	rs2011069	A	G	0.027	0.002	1.56E-41
aspartate	rs7242727	A	G	0.0247	0.0056	9.99E-06
aspartate	rs12954899	A	G	-0.0254	0.0057	8.84E-06
aspartate	rs13106192	C	G	0.0202	0.0045	7.35E-06
aspartate	rs4835638	A	T	-0.0472	0.0103	4.99E-06
aspartate	rs6854832	T	C	0.0472	0.0103	4.98E-06
aspartate	rs4888965	A	C	-0.0758	0.0164	4.01E-06
aspartate	rs7151520	T	C	-0.0269	0.0057	2.02E-06
aspartate	rs2271101	A	G	0.018	0.0037	1.27E-06
aspartate	rs4690523	T	C	0.0182	0.0037	1.04E-06
aspartate	rs7150776	T	C	0.0279	0.0057	9.22E-07
benzoate	rs9382939	T	C	0.0255	0.0058	1.00E-05
benzoate	rs10497003	T	C	0.0082	0.0018	9.61E-06
benzoate	rs7537216	A	T	-0.008	0.0018	9.50E-06
benzoate	rs11621904	T	C	0.0081	0.0018	9.48E-06
benzoate	rs1411907	T	C	0.0081	0.0018	9.35E-06

benzoate	rs8014112	T	C	0.0081	0.0018	9.35E-06
benzoate	rs309596	T	C	0.0082	0.0019	9.22E-06
benzoate	rs4353947	A	G	-0.0082	0.0018	8.70E-06
benzoate	rs3902191	T	G	0.012	0.0027	8.70E-06
benzoate	rs12519505	T	C	0.0082	0.0019	8.65E-06
benzoate	rs12520209	T	C	0.0082	0.0019	8.65E-06
benzoate	rs12899069	T	C	0.0131	0.0029	8.58E-06
benzoate	rs6540443	A	T	0.0081	0.0018	8.49E-06
benzoate	rs12987402	T	C	-0.008	0.0018	8.45E-06
benzoate	rs3771502	A	G	-0.012	0.0027	8.33E-06
benzoate	rs12565305	A	G	0.0202	0.0045	8.27E-06
benzoate	rs10755299	A	C	0.0083	0.0019	8.24E-06
benzoate	rs1151659	T	C	-0.0219	0.0049	8.24E-06
benzoate	rs4844394	T	C	0.0081	0.0018	8.21E-06
benzoate	rs12150754	C	G	0.0083	0.0019	7.70E-06
benzoate	rs3769012	A	G	0.0117	0.0026	7.58E-06
benzoate	rs724165	A	G	-0.008	0.0018	7.54E-06
benzoate	rs309154	T	C	0.0117	0.0026	7.45E-06
benzoate	rs6556206	A	G	0.0083	0.0019	7.44E-06
benzoate	rs4386719	T	C	-0.0083	0.0019	7.38E-06
benzoate	rs4662483	T	C	-0.0083	0.0019	7.37E-06
benzoate	rs1515262	T	C	-0.0083	0.0019	7.36E-06
benzoate	rs1515261	A	G	-0.0083	0.0019	7.34E-06
benzoate	rs10859973	A	G	-0.0123	0.0027	7.27E-06
benzoate	rs17010220	A	G	-0.0202	0.0045	7.19E-06
benzoate	rs12716314	T	G	0.0084	0.0019	6.88E-06
benzoate	rs12132780	T	C	0.0082	0.0018	6.82E-06
benzoate	rs12783167	T	C	-0.0081	0.0018	6.56E-06

benzoate	rs7908718	T	C	0.0084	0.0019	6.48E-06
benzoate	rs3131535	A	G	-0.0205	0.0045	6.30E-06
benzoate	rs9514739	C	G	-0.0122	0.0027	6.10E-06
benzoate	rs159486	T	C	0.012	0.0027	5.91E-06
benzoate	rs12568511	A	G	0.0123	0.0027	5.76E-06
benzoate	rs9859467	A	G	-0.0203	0.0045	5.75E-06
benzoate	rs11013865	T	C	0.0084	0.0019	5.42E-06
benzoate	rs660002	T	C	0.0119	0.0026	5.32E-06
benzoate	rs309113	A	C	0.0119	0.0026	5.22E-06
benzoate	rs3213890	A	G	0.0119	0.0026	5.17E-06
benzoate	rs2278682	C	G	0.0119	0.0026	5.17E-06
benzoate	rs309118	C	G	0.0119	0.0026	5.15E-06
benzoate	rs309133	A	C	-0.0119	0.0026	5.11E-06
benzoate	rs309122	A	G	-0.0119	0.0026	5.08E-06
benzoate	rs12475553	T	G	0.012	0.0026	4.98E-06
benzoate	rs219964	A	T	-0.0165	0.0036	4.92E-06
benzoate	rs309593	A	G	0.0084	0.0018	4.89E-06
benzoate	rs741708	A	G	0.0084	0.0018	4.70E-06
benzoate	rs309119	T	C	-0.0119	0.0026	4.63E-06
benzoate	rs8049624	A	G	0.0126	0.0028	4.58E-06
benzoate	rs12472293	T	C	-0.012	0.0026	4.54E-06
benzoate	rs9314172	C	G	-0.0084	0.0018	4.50E-06
benzoate	rs3769008	T	C	0.0119	0.0026	4.43E-06
benzoate	rs2839740	T	G	0.012	0.0026	4.43E-06
benzoate	rs10515641	A	G	-0.0086	0.0019	4.37E-06
benzoate	rs12373779	A	C	-0.0119	0.0026	4.37E-06
benzoate	rs9636213	A	G	-0.0119	0.0026	4.33E-06
benzoate	rs4741624	T	G	-0.0084	0.0018	4.19E-06

benzoate	rs1791600	T	C	-0.0087	0.0019	4.09E-06
benzoate	rs4672488	A	G	0.0086	0.0019	4.08E-06
benzoate	rs6711493	A	G	-0.012	0.0026	4.03E-06
benzoate	rs2322813	A	G	-0.0122	0.0027	3.97E-06
benzoate	rs309162	A	T	0.012	0.0026	3.95E-06
benzoate	rs1050115	A	G	-0.012	0.0026	3.95E-06
benzoate	rs3751264	A	G	0.0126	0.0027	3.91E-06
benzoate	rs4850051	A	G	-0.0086	0.0019	3.84E-06
benzoate	rs309159	T	C	0.012	0.0026	3.83E-06
benzoate	rs13151688	T	C	0.0085	0.0018	3.81E-06
benzoate	rs309158	A	G	-0.012	0.0026	3.79E-06
benzoate	rs12097666	T	C	0.0085	0.0018	3.76E-06
benzoate	rs309172	A	G	-0.0121	0.0026	3.73E-06
benzoate	rs3734271	T	G	0.0168	0.0036	3.73E-06
benzoate	rs11466229	A	G	0.0131	0.0028	3.70E-06
benzoate	rs309165	T	C	-0.0121	0.0026	3.67E-06
benzoate	rs3098102	T	C	0.0121	0.0026	3.61E-06
benzoate	rs4741625	A	G	0.0085	0.0018	3.50E-06
benzoate	rs3754689	T	C	0.0121	0.0026	3.45E-06
benzoate	rs6714884	A	G	-0.0084	0.0018	3.45E-06
benzoate	rs11838539	A	G	0.0284	0.0061	3.38E-06
benzoate	rs6724569	A	G	0.0121	0.0026	3.28E-06
benzoate	rs7607174	A	T	0.0122	0.0026	3.22E-06
benzoate	rs4951319	T	C	0.0085	0.0018	3.20E-06
benzoate	rs4762636	T	C	-0.0128	0.0027	2.87E-06
benzoate	rs7513165	T	C	0.0086	0.0018	2.83E-06
benzoate	rs1866411	A	C	-0.0085	0.0018	2.81E-06
benzoate	rs309161	A	G	0.0122	0.0026	2.80E-06

benzoate	rs969075	T	C	-0.0086	0.0018	2.63E-06
benzoate	rs310528	A	G	0.0086	0.0018	2.59E-06
benzoate	rs7283154	T	C	-0.0087	0.0018	2.32E-06
benzoate	rs2317834	T	G	0.0129	0.0027	2.31E-06
benzoate	rs17024799	T	C	0.013	0.0027	2.20E-06
benzoate	rs4762635	T	C	-0.013	0.0027	2.19E-06
benzoate	rs3911080	A	G	0.0128	0.0027	2.09E-06
benzoate	rs8008040	T	C	-0.0087	0.0018	2.06E-06
benzoate	rs16876152	T	G	-0.0089	0.0019	1.65E-06
benzoate	rs3764261	A	C	0.009	0.0019	1.52E-06
benzoate	rs10507063	C	G	-0.0133	0.0028	1.40E-06
benzoate	rs9357278	C	G	0.0178	0.0037	1.38E-06
benzoate	rs4515826	T	G	-0.0132	0.0027	1.31E-06
benzoate	rs310597	A	G	-0.0088	0.0018	1.30E-06
benzoate	rs10745735	A	G	0.0133	0.0027	1.15E-06
benzoate	rs6841005	T	C	0.0088	0.0018	1.15E-06
benzoate	rs3112496	T	C	0.0127	0.0026	1.13E-06
benzoate	rs10981455	A	G	-0.0089	0.0018	1.08E-06
benzoate	rs16826695	C	G	-0.009	0.0018	1.01E-06
benzoate	rs7561849	A	G	0.009	0.0018	1.01E-06
benzoate	rs6430144	T	C	-0.009	0.0018	1.01E-06
benzoate	rs16826701	A	G	0.009	0.0018	1.01E-06
benzoate	rs1950501	C	G	-0.0089	0.0018	6.81E-07
benzoate	rs10811042	A	T	0.0092	0.0018	5.06E-07
benzoate	rs17011280	A	G	-0.0138	0.0027	4.48E-07
benzoate	rs12637854	A	T	-0.0138	0.0027	4.33E-07
benzoate	rs9394526	A	G	-0.0187	0.0037	4.28E-07
benzoate	rs3765035	A	G	0.0092	0.0018	3.76E-07

benzoate	rs3849387	C	G	-0.0139	0.0027	2.19E-07
benzoate	rs4852620	A	G	0.0141	0.0027	1.73E-07
benzoate	rs247616	T	C	0.0098	0.0019	1.32E-07
beta-hydroxyisovalerate	rs4859271	T	C	0.0232	0.0052	9.97E-06
beta-hydroxyisovalerate	rs3209233	A	C	0.041	0.0093	9.95E-06
beta-hydroxyisovalerate	rs943251	T	G	0.0118	0.0027	9.90E-06
beta-hydroxyisovalerate	rs10937104	A	T	0.0117	0.0027	9.88E-06
beta-hydroxyisovalerate	rs872157	T	C	-0.0117	0.0026	9.73E-06
beta-hydroxyisovalerate	rs905112	A	C	-0.0117	0.0026	9.68E-06
beta-hydroxyisovalerate	rs9877549	T	C	-0.0231	0.0052	9.31E-06
beta-hydroxyisovalerate	rs13093344	C	G	-0.0118	0.0027	9.17E-06
beta-hydroxyisovalerate	rs4746017	A	C	0.0121	0.0027	8.64E-06
beta-hydroxyisovalerate	rs10494270	A	G	0.0119	0.0027	8.63E-06
beta-hydroxyisovalerate	rs2136331	A	G	-0.0119	0.0027	8.23E-06
beta-hydroxyisovalerate	rs2130791	A	G	0.0121	0.0027	7.96E-06
beta-hydroxyisovalerate	rs7178596	A	G	-0.012	0.0027	7.92E-06
beta-hydroxyisovalerate	rs6953928	T	C	-0.0236	0.0053	7.57E-06
beta-hydroxyisovalerate	rs7720978	T	C	0.0302	0.0067	7.51E-06
beta-hydroxyisovalerate	rs3823598	T	C	-0.0236	0.0053	7.43E-06
beta-hydroxyisovalerate	rs3778887	T	C	0.0237	0.0053	7.33E-06
beta-hydroxyisovalerate	rs11708349	A	G	-0.0228	0.0051	7.26E-06
beta-hydroxyisovalerate	rs10440984	A	G	-0.0121	0.0027	7.07E-06
beta-hydroxyisovalerate	rs12325299	C	G	0.0122	0.0027	6.94E-06
beta-hydroxyisovalerate	rs4979071	T	C	0.012	0.0027	6.89E-06
beta-hydroxyisovalerate	rs6952850	A	G	-0.012	0.0027	6.88E-06
beta-hydroxyisovalerate	rs2024138	A	G	0.0316	0.007	6.84E-06
beta-hydroxyisovalerate	rs529736	A	C	-0.0159	0.0035	5.87E-06
beta-hydroxyisovalerate	rs10032150	A	G	0.0123	0.0027	5.59E-06

beta-hydroxyisovalerate	rs1154510	T	C	-0.0196	0.0043	5.27E-06
beta-hydroxyisovalerate	rs9347123	A	T	-0.0121	0.0026	5.02E-06
beta-hydroxyisovalerate	rs9460599	T	C	0.0302	0.0066	4.86E-06
beta-hydroxyisovalerate	rs4307025	A	T	-0.0124	0.0027	4.85E-06
beta-hydroxyisovalerate	rs1448817	A	G	0.0124	0.0027	4.56E-06
beta-hydroxyisovalerate	rs9878953	A	G	-0.0199	0.0043	4.40E-06
beta-hydroxyisovalerate	rs11855844	A	G	-0.0168	0.0037	4.38E-06
beta-hydroxyisovalerate	rs11869714	A	G	-0.0126	0.0027	4.25E-06
beta-hydroxyisovalerate	rs1182927	T	C	-0.0167	0.0036	3.98E-06
beta-hydroxyisovalerate	rs1337278	A	G	0.0124	0.0027	3.68E-06
beta-hydroxyisovalerate	rs7541661	A	G	0.0125	0.0027	3.66E-06
beta-hydroxyisovalerate	rs905113	T	C	0.0122	0.0026	3.63E-06
beta-hydroxyisovalerate	rs3778889	T	C	0.0246	0.0053	3.42E-06
beta-hydroxyisovalerate	rs789195	A	G	-0.0128	0.0027	2.53E-06
beta-hydroxyisovalerate	rs7660017	A	G	-0.0131	0.0028	2.34E-06
beta-hydroxyisovalerate	rs11605057	T	C	-0.0202	0.0043	2.24E-06
beta-hydroxyisovalerate	rs1169077	A	G	-0.0171	0.0036	2.02E-06
beta-hydroxyisovalerate	rs6883568	C	G	-0.0388	0.0081	1.89E-06
beta-hydroxyisovalerate	rs830122	T	C	0.0172	0.0036	1.84E-06
beta-hydroxyisovalerate	rs6791884	A	G	-0.0129	0.0027	1.78E-06
beta-hydroxyisovalerate	rs11858062	T	C	0.0213	0.0044	1.65E-06
beta-hydroxyisovalerate	rs6788905	A	G	-0.0206	0.0043	1.48E-06
beta-hydroxyisovalerate	rs7632904	A	C	0.0252	0.0052	1.43E-06
beta-hydroxyisovalerate	rs1501540	A	G	0.013	0.0027	1.17E-06
beta-hydroxyisovalerate	rs4772985	T	C	-0.0133	0.0027	1.16E-06
beta-hydroxyisovalerate	rs17477579	T	C	-0.0133	0.0027	1.01E-06
beta-hydroxyisovalerate	rs17477607	T	G	-0.0133	0.0027	1.01E-06
beta-hydroxyisovalerate	rs17386538	T	C	-0.0133	0.0027	9.95E-07

beta-hydroxyisovalerate	rs12950972	T	C	-0.0133	0.0027	9.84E-07
beta-hydroxyisovalerate	rs17386586	A	C	-0.0134	0.0027	9.74E-07
beta-hydroxyisovalerate	rs6477873	T	C	0.0131	0.0027	9.51E-07
beta-hydroxyisovalerate	rs4384192	T	C	0.013	0.0026	9.35E-07
beta-hydroxyisovalerate	rs12062610	A	G	-0.013	0.0026	9.34E-07
beta-hydroxyisovalerate	rs1393025	T	C	-0.013	0.0026	9.33E-07
beta-hydroxyisovalerate	rs905108	A	T	0.013	0.0026	8.87E-07
beta-hydroxyisovalerate	rs1542885	T	C	0.0131	0.0027	8.13E-07
beta-hydroxyisovalerate	rs6675139	C	G	0.0131	0.0027	7.57E-07
beta-hydroxyisovalerate	rs7544738	A	G	0.0132	0.0027	7.15E-07
beta-hydroxyisovalerate	rs1542884	T	C	0.0132	0.0027	7.15E-07
beta-hydroxyisovalerate	rs9811126	A	G	0.0216	0.0044	6.87E-07
beta-hydroxyisovalerate	rs4074110	A	G	0.0134	0.0027	6.79E-07
beta-hydroxyisovalerate	rs2707056	A	T	0.018	0.0036	6.09E-07
beta-hydroxyisovalerate	rs853758	A	T	0.0182	0.0036	4.76E-07
beta-hydroxyisovalerate	rs13099939	A	C	-0.0136	0.0027	4.67E-07
beta-hydroxyisovalerate	rs895958	A	G	0.0183	0.0036	4.34E-07
beta-hydroxyisovalerate	rs493519	T	C	-0.0183	0.0036	4.17E-07
beta-hydroxyisovalerate	rs7446718	A	G	-0.0417	0.0082	3.83E-07
beta-hydroxyisovalerate	rs9457799	T	G	0.0182	0.0036	3.03E-07
beta-hydroxyisovalerate	rs2270967	A	G	-0.0138	0.0027	2.75E-07
beta-hydroxyisovalerate	rs7640612	A	C	-0.0138	0.0027	2.54E-07
beta-hydroxyisovalerate	rs10937106	A	G	-0.0138	0.0027	2.39E-07
beta-hydroxyisovalerate	rs895959	T	C	0.0188	0.0036	2.08E-07
beta-hydroxyisovalerate	rs7314056	T	C	-0.0188	0.0036	1.93E-07
beta-hydroxyisovalerate	rs11928508	C	G	0.014	0.0027	1.88E-07
beta-hydroxyisovalerate	rs2230681	T	C	-0.0191	0.0037	1.65E-07
beta-hydroxyisovalerate	rs9668191	A	G	-0.019	0.0036	1.40E-07

beta-hydroxyisovalerate	rs9295118	A	T	-0.0188	0.0036	1.33E-07
beta-hydroxyisovalerate	rs1185260	A	G	-0.0191	0.0036	1.14E-07
beta-hydroxyisovalerate	rs2270968	T	G	0.0143	0.0027	1.12E-07
beta-hydroxyisovalerate	rs10455860	T	C	0.0188	0.0035	1.05E-07
beta-hydroxyisovalerate	rs12486983	T	C	0.0144	0.0027	9.74E-08
beta-hydroxyisovalerate	rs9841498	T	C	0.0145	0.0027	7.12E-08
beta-hydroxyisovalerate	rs6917747	A	G	0.0194	0.0036	4.66E-08
beta-hydroxyisovalerate	rs10945649	A	T	0.0212	0.0036	4.29E-09
betaine	rs13213986	A	T	-0.0154	0.0035	9.99E-06
betaine	rs4327704	A	C	-0.0219	0.005	9.94E-06
betaine	rs12190141	A	G	0.0616	0.0139	9.90E-06
betaine	rs17595065	A	G	0.0347	0.0078	9.73E-06
betaine	rs149990	A	G	-0.012	0.0027	9.53E-06
betaine	rs3117425	T	C	-0.0154	0.0035	9.19E-06
betaine	rs13200214	T	C	-0.0153	0.0035	9.16E-06
betaine	rs3760188	T	C	-0.0079	0.0018	8.97E-06
betaine	rs750546	T	C	-0.0079	0.0018	8.96E-06
betaine	rs17750424	T	C	0.0156	0.0035	8.90E-06
betaine	rs13193480	A	G	0.0156	0.0035	8.87E-06
betaine	rs9886534	T	C	-0.0079	0.0018	8.74E-06
betaine	rs2204060	T	C	-0.0108	0.0024	8.46E-06
betaine	rs11943623	A	G	-0.0115	0.0026	8.40E-06
betaine	rs2296804	C	G	-0.0106	0.0024	8.40E-06
betaine	rs7896866	A	C	0.0108	0.0024	8.34E-06
betaine	rs9981490	A	G	-0.0079	0.0018	8.29E-06
betaine	rs4646343	T	G	-0.008	0.0018	8.28E-06
betaine	rs429479	A	G	0.0154	0.0035	8.21E-06
betaine	rs4713133	T	C	0.0114	0.0026	8.19E-06

betaine	rs7781104	T	C	0.0208	0.0047	7.76E-06
betaine	rs13215275	T	G	-0.0158	0.0035	7.42E-06
betaine	rs13210634	A	G	0.0158	0.0035	7.41E-06
betaine	rs13217620	T	C	-0.0158	0.0035	7.41E-06
betaine	rs4646344	A	G	0.008	0.0018	7.22E-06
betaine	rs6908726	C	G	0.0155	0.0035	7.17E-06
betaine	rs1233385	T	C	0.0153	0.0034	7.16E-06
betaine	rs4672596	T	C	0.0107	0.0024	7.15E-06
betaine	rs442694	T	G	-0.0156	0.0035	6.99E-06
betaine	rs1233393	C	G	0.0153	0.0034	6.82E-06
betaine	rs633159	A	G	-0.011	0.0024	6.80E-06
betaine	rs6502603	T	G	-0.008	0.0018	6.77E-06
betaine	rs10937433	C	G	0.008	0.0018	6.62E-06
betaine	rs4142151	T	C	-0.0111	0.0025	6.53E-06
betaine	rs17734739	T	C	-0.0116	0.0026	6.47E-06
betaine	rs163133	A	T	-0.0114	0.0025	6.33E-06
betaine	rs17693963	A	C	0.0158	0.0035	6.22E-06
betaine	rs10164524	A	G	-0.011	0.0024	6.04E-06
betaine	rs12569219	A	C	-0.0118	0.0026	5.82E-06
betaine	rs7668550	T	G	-0.0368	0.0081	5.54E-06
betaine	rs9257800	T	C	-0.0159	0.0035	5.00E-06
betaine	rs11953102	C	G	-0.0117	0.0026	4.88E-06
betaine	rs163125	A	G	0.0116	0.0025	4.87E-06
betaine	rs981715	A	G	0.012	0.0026	4.69E-06
betaine	rs981714	C	G	0.012	0.0026	4.67E-06
betaine	rs3797248	A	G	0.012	0.0026	4.62E-06
betaine	rs2396726	T	C	-0.0179	0.0039	4.52E-06
betaine	rs42418	C	G	-0.0109	0.0024	4.47E-06

betaine	rs11651620	A	G	-0.0082	0.0018	4.12E-06
betaine	rs4646387	T	G	-0.0082	0.0018	4.07E-06
betaine	rs4646389	A	C	-0.0082	0.0018	4.04E-06
betaine	rs163126	T	C	-0.0117	0.0025	3.64E-06
betaine	rs4646392	A	C	-0.0083	0.0018	3.64E-06
betaine	rs4714634	A	G	0.0083	0.0018	3.63E-06
betaine	rs4673559	A	G	0.0116	0.0025	3.53E-06
betaine	rs936108	T	C	-0.0083	0.0018	3.46E-06
betaine	rs2371027	T	C	0.0112	0.0024	3.45E-06
betaine	rs986294	A	G	-0.0116	0.0025	3.38E-06
betaine	rs12998006	T	C	0.0116	0.0025	3.24E-06
betaine	rs4646359	T	C	-0.0083	0.0018	3.20E-06
betaine	rs13202295	T	C	-0.0163	0.0035	3.17E-06
betaine	rs1233493	A	G	0.0161	0.0035	3.15E-06
betaine	rs13000743	A	G	-0.0113	0.0024	3.08E-06
betaine	rs216244	T	G	0.014	0.003	3.06E-06
betaine	rs17750747	T	C	0.0164	0.0035	2.89E-06
betaine	rs9974224	T	C	0.0194	0.0042	2.85E-06
betaine	rs1024898	A	G	0.0114	0.0024	2.75E-06
betaine	rs2371034	A	G	-0.0114	0.0024	2.74E-06
betaine	rs406511	C	G	0.0162	0.0034	2.66E-06
betaine	rs164372	T	C	0.012	0.0025	2.64E-06
betaine	rs7126003	T	C	0.0185	0.0039	2.58E-06
betaine	rs1233480	T	C	-0.0163	0.0035	2.47E-06
betaine	rs12463963	T	C	0.0118	0.0025	2.44E-06
betaine	rs10153066	T	G	0.0085	0.0018	2.12E-06
betaine	rs404240	A	G	0.0164	0.0035	2.07E-06
betaine	rs2160847	T	C	0.0149	0.0031	2.05E-06

betaine	rs1233489	A	T	-0.0165	0.0035	2.03E-06
betaine	rs2746149	T	C	0.0165	0.0035	1.88E-06
betaine	rs13021675	T	C	-0.0123	0.0026	1.84E-06
betaine	rs17734637	C	G	-0.0122	0.0026	1.82E-06
betaine	rs4142153	C	G	-0.0117	0.0025	1.78E-06
betaine	rs152727	T	C	-0.0121	0.0025	1.71E-06
betaine	rs10490328	A	G	0.0118	0.0025	1.67E-06
betaine	rs1233491	C	G	-0.0167	0.0035	1.61E-06
betaine	rs2523443	A	C	-0.0167	0.0035	1.57E-06
betaine	rs216250	A	G	-0.0129	0.0027	1.51E-06
betaine	rs2887915	T	C	0.0117	0.0024	1.22E-06
betaine	rs558133	A	C	0.0117	0.0024	1.17E-06
betaine	rs16876693	T	C	-0.0115	0.0024	1.06E-06
betaine	rs12470730	T	C	0.0124	0.0025	9.91E-07
betaine	rs13402741	C	G	-0.0121	0.0025	9.77E-07
betaine	rs2371022	A	G	0.0121	0.0025	9.76E-07
betaine	rs2371023	A	G	0.0121	0.0025	9.74E-07
betaine	rs2371025	T	C	-0.0121	0.0025	9.71E-07
betaine	rs13016820	A	G	0.0121	0.0025	9.69E-07
betaine	rs16844814	T	C	-0.0121	0.0025	9.69E-07
betaine	rs2371019	T	G	-0.0121	0.0025	9.68E-07
betaine	rs10445807	T	C	-0.0121	0.0025	9.67E-07
betaine	rs13415037	T	G	-0.0121	0.0025	9.67E-07
betaine	rs4467202	A	G	-0.0121	0.0025	9.66E-07
betaine	rs12623361	T	C	0.0121	0.0025	9.59E-07
betaine	rs12470865	A	C	0.0121	0.0025	9.53E-07
betaine	rs4142152	T	C	0.0121	0.0025	9.29E-07
betaine	rs16831173	A	C	0.0124	0.0025	9.28E-07

betaine	rs9288420	A	G	0.0121	0.0025	8.73E-07
betaine	rs1234844	T	G	0.017	0.0035	8.62E-07
betaine	rs1233494	T	C	0.0171	0.0035	8.56E-07
betaine	rs2206853	T	C	-0.0171	0.0035	8.52E-07
betaine	rs2143668	A	T	0.0171	0.0035	8.41E-07
betaine	rs13177425	A	T	0.0117	0.0024	7.31E-07
betaine	rs13386028	A	C	0.0118	0.0024	7.12E-07
betaine	rs163124	T	G	0.0121	0.0024	7.08E-07
betaine	rs408623	T	G	-0.0172	0.0035	6.81E-07
betaine	rs389419	T	C	-0.0172	0.0035	6.74E-07
betaine	rs3847946	T	C	-0.0119	0.0024	6.69E-07
betaine	rs4673558	T	C	-0.0123	0.0025	6.50E-07
betaine	rs7702523	T	C	0.0118	0.0024	6.50E-07
betaine	rs4704556	T	C	-0.0118	0.0024	6.13E-07
betaine	rs3930426	T	C	-0.0118	0.0024	5.99E-07
betaine	rs7732681	T	C	-0.0118	0.0024	5.96E-07
betaine	rs10928521	C	G	0.0123	0.0025	5.88E-07
betaine	rs694290	A	G	0.0121	0.0024	5.76E-07
betaine	rs216242	A	T	0.015	0.003	5.73E-07
betaine	rs6453436	A	G	0.0119	0.0024	5.25E-07
betaine	rs7736709	C	G	-0.0119	0.0024	5.16E-07
betaine	rs13182115	T	G	-0.0125	0.0025	4.97E-07
betaine	rs17692962	A	C	0.0124	0.0025	4.77E-07
betaine	rs13427841	T	C	0.0126	0.0025	4.66E-07
betaine	rs1535039	T	C	0.0175	0.0035	4.49E-07
betaine	rs8180502	A	G	0.0123	0.0024	3.95E-07
betaine	rs13404853	A	C	0.0126	0.0025	3.63E-07
betaine	rs10490320	T	C	-0.0123	0.0024	3.59E-07

betaine	rs3818554	T	C	0.0091	0.0018	3.09E-07
betaine	rs7714738	C	G	-0.0121	0.0024	2.70E-07
betaine	rs2274514	T	C	0.0092	0.0018	2.28E-07
betaine	rs2274517	T	C	0.0092	0.0018	2.13E-07
betaine	rs13215983	T	C	0.0093	0.0018	2.01E-07
betaine	rs9462856	T	C	-0.0093	0.0018	2.00E-07
betaine	rs2291922	A	G	0.0126	0.0024	1.95E-07
betaine	rs6860725	T	C	-0.0126	0.0024	1.79E-07
betaine	rs2371015	T	C	0.0125	0.0024	1.72E-07
betaine	rs6864184	A	G	0.0124	0.0024	1.53E-07
betaine	rs570680	T	G	0.021	0.004	1.52E-07
betaine	rs506500	T	C	-0.0127	0.0024	1.45E-07
betaine	rs11887861	A	C	0.0127	0.0024	1.43E-07
betaine	rs10043008	T	G	-0.0124	0.0024	1.41E-07
betaine	rs11701048	T	C	0.0185	0.0035	1.19E-07
betaine	rs10514159	T	C	0.0127	0.0024	7.71E-08
betaine	rs7704383	T	C	-0.0127	0.0024	7.16E-08
betaine	rs10072296	T	C	0.0127	0.0024	7.06E-08
betaine	rs1870057	T	C	0.0127	0.0024	7.00E-08
betaine	rs6891335	A	G	-0.0127	0.0024	6.74E-08
betaine	rs12151827	T	C	-0.0141	0.0026	6.35E-08
betaine	rs2607144	A	C	0.0129	0.0024	5.86E-08
betaine	rs7684	T	G	-0.0132	0.0024	5.21E-08
betaine	rs6414979	T	G	-0.013	0.0024	5.12E-08
betaine	rs2591392	A	G	0.013	0.0024	5.12E-08
betaine	rs3733886	T	G	-0.0129	0.0024	4.81E-08
betaine	rs12329764	A	G	0.019	0.0035	4.70E-08
betaine	rs9982015	T	C	-0.0193	0.0035	3.63E-08

betaine	rs1062326	T	G	0.0132	0.0024	3.04E-08
betaine	rs2291920	T	C	-0.0135	0.0024	2.96E-08
betaine	rs10505717	T	C	-0.0135	0.0024	2.74E-08
betaine	rs12368193	A	G	-0.0135	0.0024	2.59E-08
betaine	rs13182512	A	T	0.0134	0.0024	2.06E-08
betaine	rs7700970	T	C	-0.0173	0.0031	1.83E-08
betaine	rs9293761	A	G	0.0133	0.0024	1.74E-08
betaine	rs12189248	T	C	0.0136	0.0024	1.41E-08
betaine	rs949645	A	T	0.014	0.0025	1.35E-08
betaine	rs6893970	A	G	-0.0273	0.0048	1.28E-08
betaine	rs4704552	A	G	-0.0137	0.0024	9.91E-09
betaine	rs478651	T	C	-0.0135	0.0024	9.29E-09
betaine	rs1870058	A	G	0.014	0.0024	8.33E-09
betaine	rs9637825	C	G	0.0139	0.0024	6.11E-09
betaine	rs6711167	A	T	-0.0188	0.0032	5.98E-09
betaine	rs2607142	T	C	-0.0139	0.0024	5.03E-09
betaine	rs2591386	T	C	0.0139	0.0024	5.02E-09
betaine	rs13165414	T	C	0.0139	0.0024	5.01E-09
betaine	rs4560045	A	T	-0.0147	0.0025	5.00E-09
betaine	rs10805925	A	G	-0.0139	0.0024	5.00E-09
betaine	rs10474578	T	C	-0.0139	0.0024	5.00E-09
betaine	rs6874525	T	C	-0.0139	0.0024	4.97E-09
betaine	rs1316753	C	G	0.0139	0.0024	4.97E-09
betaine	rs2607145	A	G	-0.014	0.0024	4.79E-09
betaine	rs2607140	T	C	0.014	0.0024	4.76E-09
betaine	rs17776067	T	C	-0.0196	0.0033	4.46E-09
betaine	rs163132	T	C	0.0144	0.0025	4.37E-09
betaine	rs3797535	T	C	-0.0245	0.0042	3.95E-09

betaine	rs10932355	A	G	0.015	0.0025	3.76E-09
betaine	rs10074882	A	G	0.0142	0.0024	2.87E-09
betaine	rs4704546	A	G	0.0142	0.0024	2.78E-09
betaine	rs2291919	A	C	-0.0148	0.0025	2.58E-09
betaine	rs2131978	A	G	-0.0142	0.0024	2.38E-09
betaine	rs2220839	A	T	-0.0142	0.0024	2.30E-09
betaine	rs6889383	T	C	0.0143	0.0024	2.27E-09
betaine	rs7711939	T	C	0.0143	0.0024	2.27E-09
betaine	rs6586282	T	C	0.0155	0.0026	1.97E-09
betaine	rs17775871	A	G	0.0196	0.0032	1.68E-09
betaine	rs2287413	C	G	0.0195	0.0032	1.50E-09
betaine	rs12659709	C	G	-0.0144	0.0024	1.18E-09
betaine	rs2166343	A	G	-0.0146	0.0024	1.07E-09
betaine	rs2121107	T	C	0.0146	0.0024	1.05E-09
betaine	rs10044259	T	C	-0.0146	0.0024	1.05E-09
betaine	rs10069036	A	T	-0.0146	0.0024	1.05E-09
betaine	rs12659618	A	G	0.0146	0.0024	1.05E-09
betaine	rs10942887	T	G	0.0146	0.0024	1.04E-09
betaine	rs10490327	A	G	-0.0197	0.0032	9.60E-10
betaine	rs2364594	A	G	0.0147	0.0024	9.30E-10
betaine	rs1291041	T	G	0.0146	0.0024	9.03E-10
betaine	rs12613336	T	C	0.0154	0.0025	8.98E-10
betaine	rs13158309	A	G	-0.0145	0.0024	8.48E-10
betaine	rs949644	A	G	-0.0147	0.0024	8.05E-10
betaine	rs4703773	T	C	0.0148	0.0024	6.07E-10
betaine	rs10078815	T	C	0.0148	0.0024	6.04E-10
betaine	rs6893527	A	G	-0.0148	0.0024	5.10E-10
betaine	rs10060869	A	G	-0.015	0.0024	4.24E-10

betaine	rs6453431	C	G	0.0149	0.0024	3.79E-10
betaine	rs12655567	C	G	-0.015	0.0024	2.88E-10
betaine	rs3829809	C	G	-0.0152	0.0024	2.87E-10
betaine	rs495360	A	C	-0.019	0.003	2.40E-10
betaine	rs7710824	A	C	-0.0158	0.0025	1.63E-10
betaine	rs955897	A	C	-0.0153	0.0024	1.42E-10
betaine	rs1915706	T	C	0.0154	0.0024	1.33E-10
betaine	rs1275103	C	G	-0.0155	0.0024	6.84E-11
betaine	rs567754	T	C	0.0162	0.0025	4.96E-11
betaine	rs10172053	T	G	0.0168	0.0026	4.53E-11
betaine	rs2216405	A	G	0.0168	0.0025	4.03E-11
betaine	rs7421152	A	T	0.0171	0.0026	2.12E-11
betaine	rs10490325	C	G	0.0171	0.0026	2.04E-11
betaine	rs10206976	T	G	-0.0171	0.0026	2.03E-11
betaine	rs2851391	T	C	-0.0121	0.0018	1.15E-11
betaine	rs463614	A	C	-0.0164	0.0024	3.40E-12
betaine	rs4673546	T	C	-0.0175	0.0025	3.26E-12
betaine	rs16844825	A	G	0.0176	0.0025	3.08E-12
betaine	rs2193617	A	G	-0.0176	0.0025	2.95E-12
betaine	rs16844874	T	C	0.0178	0.0026	2.90E-12
betaine	rs4513233	A	G	-0.0178	0.0026	2.87E-12
betaine	rs10490322	T	C	-0.0178	0.0025	2.24E-12
betaine	rs11680929	A	G	-0.0178	0.0025	2.23E-12
betaine	rs10490324	T	C	-0.0178	0.0025	2.22E-12
betaine	rs2445887	A	G	-0.0166	0.0023	1.37E-12
betaine	rs16844839	T	C	-0.0182	0.0026	1.34E-12
betaine	rs499368	A	T	-0.0191	0.0027	8.14E-13
betaine	rs190335	T	C	0.0168	0.0023	7.80E-13

betaine	rs559088	C	G	0.0173	0.0024	3.11E-13
betaine	rs16844862	T	C	-0.0185	0.0025	2.87E-13
betaine	rs10490323	A	G	-0.0185	0.0025	2.87E-13
betaine	rs3815630	T	C	0.0185	0.0025	2.87E-13
betaine	rs651852	T	C	0.0174	0.0024	1.46E-13
betaine	rs1717570	A	G	-0.0181	0.0024	5.48E-14
betaine	rs2461248	A	T	-0.0178	0.0023	2.66E-14
betaine	rs562487	A	G	0.0181	0.0024	1.77E-14
betaine	rs6453424	A	C	-0.0186	0.0024	9.77E-15
betaine	rs2034900	A	G	-0.0187	0.0024	6.69E-15
betaine	rs586199	A	G	0.0184	0.0023	3.44E-15
betaine	rs10944	T	G	-0.0185	0.0023	2.40E-15
betaine	rs532964	A	G	-0.019	0.0024	2.33E-15
betaine	rs6862283	T	C	0.0193	0.0024	7.93E-16
betaine	rs248378	A	G	0.0189	0.0023	4.46E-16
betaine	rs557302	A	G	-0.0192	0.0023	2.44E-16
betaine	rs248380	T	C	-0.0192	0.0023	2.32E-16
betaine	rs248381	A	G	0.0192	0.0023	2.19E-16
betaine	rs17223387	C	G	-0.0201	0.0025	2.17E-16
betaine	rs11960388	A	T	-0.0274	0.0033	1.92E-16
betaine	rs185077	T	C	-0.0193	0.0023	1.54E-16
betaine	rs7709472	A	T	-0.0198	0.0024	1.41E-16
betaine	rs2461249	A	G	-0.0194	0.0023	1.16E-16
betaine	rs7709757	T	C	0.0199	0.0024	1.11E-16
betaine	rs2034899	T	G	0.0199	0.0024	1.05E-16
betaine	rs2303129	T	C	0.02	0.0024	7.95E-17
betaine	rs3797539	A	C	-0.02	0.0024	7.88E-17
betaine	rs3797538	A	G	0.02	0.0024	7.88E-17

betaine	rs1644004	A	G	-0.0195	0.0023	7.57E-17
betaine	rs731124	T	C	-0.0201	0.0024	6.77E-17
betaine	rs6875201	A	G	0.0282	0.0034	6.24E-17
betaine	rs16876363	A	C	-0.0202	0.0024	6.07E-17
betaine	rs403224	T	G	-0.0196	0.0023	4.90E-17
betaine	rs248383	T	C	0.0196	0.0023	4.48E-17
betaine	rs248384	T	C	-0.0196	0.0023	4.43E-17
betaine	rs248385	C	G	-0.0196	0.0023	4.36E-17
betaine	rs727674	A	T	0.0203	0.0024	3.86E-17
betaine	rs2049163	T	C	-0.0204	0.0024	2.88E-17
betaine	rs7710133	T	C	-0.0202	0.0024	1.59E-17
betaine	rs6859544	C	G	-0.0205	0.0024	1.57E-17
betaine	rs6860801	C	G	0.0205	0.0024	1.36E-17
betaine	rs16876302	T	C	0.0205	0.0024	1.30E-17
betaine	rs6881725	T	C	0.0207	0.0024	9.21E-18
betaine	rs1805073	C	G	-0.0207	0.0024	8.02E-18
betaine	rs933683	T	G	-0.0207	0.0024	7.97E-18
betaine	rs1805074	A	G	0.0207	0.0024	7.97E-18
betaine	rs933684	A	C	0.0207	0.0024	7.97E-18
betaine	rs7731142	A	C	0.0207	0.0024	6.30E-18
betaine	rs6873326	T	C	0.0291	0.0034	5.18E-18
betaine	rs4673553	T	G	0.0155	0.0018	3.62E-18
betaine	rs6894156	T	C	-0.0296	0.0034	1.72E-18
betaine	rs921943	T	C	-0.0216	0.0025	1.27E-18
betaine	rs7736376	T	C	0.0298	0.0034	6.75E-19
betaine	rs17823744	A	G	0.0297	0.0033	4.96E-19
betaine	rs7732845	A	G	0.0298	0.0033	4.52E-19
betaine	rs17823642	T	C	-0.03	0.0034	4.10E-19

betaine	rs16876503	A	G	0.03	0.0034	3.66E-19
betaine	rs16876500	T	C	-0.0301	0.0034	3.02E-19
betaine	rs16876512	T	C	-0.0302	0.0034	2.87E-19
betaine	rs16876498	T	C	0.0301	0.0034	2.55E-19
betaine	rs17823774	C	G	0.0303	0.0034	2.10E-19
betaine	rs715	T	C	0.0221	0.0025	2.08E-19
betaine	rs6883815	A	G	-0.0304	0.0034	1.84E-19
betaine	rs16876394	T	C	0.0304	0.0034	1.49E-19
carnitine	rs13182115	T	G	0.0041	0.0009	9.99E-06
carnitine	rs1014486	T	C	0.004	0.0009	9.98E-06
carnitine	rs7662505	A	T	-0.004	0.0009	9.98E-06
carnitine	rs2412005	A	T	-0.004	0.0009	9.95E-06
carnitine	rs2253366	A	T	0.004	0.0009	9.92E-06
carnitine	rs9317240	A	G	-0.004	0.0009	9.92E-06
carnitine	rs9530481	T	C	0.004	0.0009	9.90E-06
carnitine	rs501720	A	C	-0.004	0.0009	9.90E-06
carnitine	rs12650354	T	C	0.0329	0.0074	9.89E-06
carnitine	rs496150	A	G	-0.004	0.0009	9.88E-06
carnitine	rs2360635	A	G	0.004	0.0009	9.86E-06
carnitine	rs4859971	T	C	0.004	0.0009	9.86E-06
carnitine	rs515280	C	G	0.004	0.0009	9.85E-06
carnitine	rs519932	T	G	-0.004	0.0009	9.85E-06
carnitine	rs12817660	A	G	-0.004	0.0009	9.81E-06
carnitine	rs2223928	T	C	0.004	0.0009	9.81E-06
carnitine	rs2164183	T	G	-0.004	0.0009	9.80E-06
carnitine	rs480662	A	G	-0.004	0.0009	9.73E-06
carnitine	rs7517302	T	C	0.004	0.0009	9.64E-06
carnitine	rs1507101	A	G	0.004	0.0009	9.63E-06

carnitine	rs2327855	A	C	0.004	0.0009	9.55E-06
carnitine	rs11085752	A	C	-0.004	0.0009	9.54E-06
carnitine	rs5999027	T	C	-0.004	0.0009	9.52E-06
carnitine	rs10515456	A	G	-0.0075	0.0017	9.48E-06
carnitine	rs2133813	T	C	0.0041	0.0009	9.47E-06
carnitine	rs9530477	T	C	0.004	0.0009	9.46E-06
carnitine	rs12980652	A	T	-0.0145	0.0033	9.45E-06
carnitine	rs1399	A	G	0.004	0.0009	9.45E-06
carnitine	rs1886098	A	G	-0.0142	0.0032	9.44E-06
carnitine	rs2839471	T	C	-0.004	0.0009	9.41E-06
carnitine	rs11749859	T	C	-0.004	0.0009	9.39E-06
carnitine	rs9544060	T	C	0.004	0.0009	9.36E-06
carnitine	rs1397	C	G	0.004	0.0009	9.35E-06
carnitine	rs220168	A	G	-0.004	0.0009	9.33E-06
carnitine	rs9415044	T	G	-0.004	0.0009	9.31E-06
carnitine	rs12803813	T	C	0.004	0.0009	9.30E-06
carnitine	rs7837480	A	G	-0.004	0.0009	9.30E-06
carnitine	rs1482567	T	C	0.004	0.0009	9.30E-06
carnitine	rs1323567	T	C	-0.004	0.0009	9.29E-06
carnitine	rs4669392	A	G	-0.004	0.0009	9.29E-06
carnitine	rs10784751	A	T	0.004	0.0009	9.29E-06
carnitine	rs1915990	A	G	-0.0077	0.0017	9.27E-06
carnitine	rs246946	T	C	0.0041	0.0009	9.26E-06
carnitine	rs13284789	T	C	0.0079	0.0018	9.19E-06
carnitine	rs718150	A	G	-0.004	0.0009	9.18E-06
carnitine	rs969394	A	G	-0.004	0.0009	9.15E-06
carnitine	rs1323566	A	G	0.004	0.0009	9.15E-06
carnitine	rs9600572	A	G	-0.004	0.0009	9.14E-06

carnitine	rs9600575	A	G	-0.004	0.0009	9.12E-06
carnitine	rs478982	A	G	0.004	0.0009	9.11E-06
carnitine	rs970446	A	C	0.004	0.0009	9.09E-06
carnitine	rs2225978	A	C	-0.004	0.0009	9.08E-06
carnitine	rs9863328	T	C	0.004	0.0009	9.08E-06
carnitine	rs1109773	C	G	0.004	0.0009	9.03E-06
carnitine	rs1544811	A	G	0.004	0.0009	8.99E-06
carnitine	rs3905228	A	C	0.0041	0.0009	8.96E-06
carnitine	rs4743692	A	G	-0.004	0.0009	8.95E-06
carnitine	rs1450681	A	G	-0.004	0.0009	8.95E-06
carnitine	rs4743691	A	G	0.004	0.0009	8.95E-06
carnitine	rs2000069	T	C	0.0041	0.0009	8.87E-06
carnitine	rs1953127	T	C	-0.004	0.0009	8.86E-06
carnitine	rs1447030	T	C	-0.004	0.0009	8.86E-06
carnitine	rs7331579	C	G	0.004	0.0009	8.86E-06
carnitine	rs4743694	C	G	-0.004	0.0009	8.86E-06
carnitine	rs7872170	A	G	0.004	0.0009	8.83E-06
carnitine	rs9960949	A	G	-0.0042	0.0009	8.83E-06
carnitine	rs7026246	A	C	-0.004	0.0009	8.83E-06
carnitine	rs10119876	T	G	-0.004	0.0009	8.82E-06
carnitine	rs10820618	A	T	0.004	0.0009	8.82E-06
carnitine	rs9974470	A	T	-0.004	0.0009	8.81E-06
carnitine	rs10991141	T	C	-0.004	0.0009	8.81E-06
carnitine	rs2714684	C	G	-0.004	0.0009	8.80E-06
carnitine	rs1275103	C	G	0.004	0.0009	8.79E-06
carnitine	rs3118816	A	C	-0.004	0.0009	8.79E-06
carnitine	rs1507507	A	G	-0.004	0.0009	8.78E-06
carnitine	rs10956672	A	C	0.004	0.0009	8.76E-06

carnitine	rs6494149	A	G	-0.004	0.0009	8.71E-06
carnitine	rs2544371	A	G	0.004	0.0009	8.69E-06
carnitine	rs6948474	A	T	0.0077	0.0017	8.60E-06
carnitine	rs10772367	C	G	-0.004	0.0009	8.58E-06
carnitine	rs6581708	T	C	0.004	0.0009	8.57E-06
carnitine	rs1250070	A	G	-0.0042	0.0009	8.56E-06
carnitine	rs4742907	A	G	0.004	0.0009	8.55E-06
carnitine	rs2055802	A	G	0.004	0.0009	8.53E-06
carnitine	rs12587546	A	G	-0.0041	0.0009	8.46E-06
carnitine	rs4771416	T	C	-0.004	0.0009	8.46E-06
carnitine	rs9518622	T	C	0.004	0.0009	8.43E-06
carnitine	rs10917994	T	C	-0.0041	0.0009	8.43E-06
carnitine	rs657535	A	G	-0.004	0.0009	8.43E-06
carnitine	rs8043243	T	C	-0.004	0.0009	8.41E-06
carnitine	rs9518625	A	G	-0.004	0.0009	8.39E-06
carnitine	rs8134847	T	C	0.0041	0.0009	8.38E-06
carnitine	rs2124990	T	C	-0.004	0.0009	8.38E-06
carnitine	rs7320884	T	C	-0.004	0.0009	8.37E-06
carnitine	rs4468458	A	G	-0.004	0.0009	8.37E-06
carnitine	rs1443837	A	G	0.004	0.0009	8.35E-06
carnitine	rs7940551	T	C	-0.004	0.0009	8.33E-06
carnitine	rs2767290	A	G	0.004	0.0009	8.33E-06
carnitine	rs9518630	T	C	-0.004	0.0009	8.29E-06
carnitine	rs4885359	T	G	-0.004	0.0009	8.19E-06
carnitine	rs6832027	A	G	0.004	0.0009	8.16E-06
carnitine	rs902013	T	G	-0.004	0.0009	8.08E-06
carnitine	rs2119588	A	G	0.0041	0.0009	8.04E-06
carnitine	rs3900685	A	C	-0.0178	0.004	8.00E-06

carnitine	rs7686890	T	C	0.004	0.0009	7.99E-06
carnitine	rs4771417	T	C	0.004	0.0009	7.94E-06
carnitine	rs9518632	T	C	0.004	0.0009	7.88E-06
carnitine	rs12867127	T	G	-0.004	0.0009	7.84E-06
carnitine	rs10438357	A	G	-0.004	0.0009	7.82E-06
carnitine	rs12417365	T	C	-0.004	0.0009	7.82E-06
carnitine	rs9544069	T	G	-0.004	0.0009	7.80E-06
carnitine	rs7121966	A	G	0.004	0.0009	7.80E-06
carnitine	rs1866570	C	G	-0.004	0.0009	7.76E-06
carnitine	rs12757533	A	T	-0.0041	0.0009	7.67E-06
carnitine	rs9518633	A	T	-0.004	0.0009	7.67E-06
carnitine	rs555908	T	C	-0.0041	0.0009	7.64E-06
carnitine	rs482275	T	C	0.0041	0.0009	7.61E-06
carnitine	rs9385674	T	G	0.004	0.0009	7.60E-06
carnitine	rs10820610	A	G	0.004	0.0009	7.60E-06
carnitine	rs9373073	T	G	-0.004	0.0009	7.57E-06
carnitine	rs726203	A	G	-0.004	0.0009	7.55E-06
carnitine	rs879067	T	C	0.004	0.0009	7.54E-06
carnitine	rs12215339	T	C	0.0321	0.0072	7.50E-06
carnitine	rs9375994	A	T	0.004	0.0009	7.48E-06
carnitine	rs9613019	T	C	-0.0041	0.0009	7.42E-06
carnitine	rs1769463	A	G	-0.0042	0.0009	7.40E-06
carnitine	rs10991172	T	C	0.004	0.0009	7.39E-06
carnitine	rs989681	T	C	0.0041	0.0009	7.36E-06
carnitine	rs4446473	A	G	-0.0041	0.0009	7.35E-06
carnitine	rs4593453	C	G	0.0077	0.0017	7.31E-06
carnitine	rs10509112	T	C	-0.004	0.0009	7.23E-06
carnitine	rs2793471	T	C	0.0041	0.0009	7.23E-06

carnitine	rs17189743	A	G	-0.0152	0.0034	7.22E-06
carnitine	rs9554840	A	G	0.004	0.0009	7.12E-06
carnitine	rs4860061	A	G	-0.004	0.0009	7.10E-06
carnitine	rs2426702	T	C	-0.0076	0.0017	7.08E-06
carnitine	rs2309339	C	G	0.0041	0.0009	7.06E-06
carnitine	rs2309338	A	G	0.0041	0.0009	7.06E-06
carnitine	rs4810061	C	G	-0.0076	0.0017	7.05E-06
carnitine	rs6479228	A	G	0.004	0.0009	7.05E-06
carnitine	rs6661629	T	C	-0.0041	0.0009	7.03E-06
carnitine	rs12406067	A	G	-0.0041	0.0009	7.03E-06
carnitine	rs6701049	A	G	0.0041	0.0009	7.03E-06
carnitine	rs4504898	T	C	-0.0041	0.0009	7.03E-06
carnitine	rs719720	C	G	0.004	0.0009	7.01E-06
carnitine	rs9942894	A	G	-0.0041	0.0009	6.98E-06
carnitine	rs12475599	A	G	0.004	0.0009	6.95E-06
carnitine	rs6441657	T	C	-0.004	0.0009	6.94E-06
carnitine	rs3756877	A	T	0.004	0.0009	6.93E-06
carnitine	rs4885362	A	C	0.0041	0.0009	6.90E-06
carnitine	rs1463209	T	C	0.004	0.0009	6.88E-06
carnitine	rs6507615	T	G	0.0041	0.0009	6.83E-06
carnitine	rs4948359	A	C	-0.009	0.002	6.80E-06
carnitine	rs4634560	T	C	-0.009	0.002	6.80E-06
carnitine	rs7172197	A	G	-0.0041	0.0009	6.79E-06
carnitine	rs1507509	A	T	-0.004	0.0009	6.78E-06
carnitine	rs7038714	T	G	-0.004	0.0009	6.77E-06
carnitine	rs9598437	T	C	0.004	0.0009	6.76E-06
carnitine	rs2068985	C	G	-0.0041	0.0009	6.76E-06
carnitine	rs12094293	T	C	-0.0041	0.0009	6.72E-06

carnitine	rs8040906	A	G	-0.0041	0.0009	6.70E-06
carnitine	rs10133760	C	G	-0.0041	0.0009	6.69E-06
carnitine	rs579142	A	T	-0.004	0.0009	6.68E-06
carnitine	rs7853727	T	G	-0.004	0.0009	6.68E-06
carnitine	rs12607576	T	C	-0.004	0.0009	6.67E-06
carnitine	rs865488	T	C	-0.0041	0.0009	6.65E-06
carnitine	rs10789970	T	C	-0.0041	0.0009	6.63E-06
carnitine	rs7982438	A	G	0.0041	0.0009	6.63E-06
carnitine	rs4468552	A	G	0.0041	0.0009	6.63E-06
carnitine	rs561895	T	C	-0.0042	0.0009	6.63E-06
carnitine	rs11950562	A	C	0.004	0.0009	6.59E-06
carnitine	rs4793395	T	C	0.0041	0.0009	6.58E-06
carnitine	rs4793394	A	G	-0.0041	0.0009	6.58E-06
carnitine	rs6893527	A	G	0.0041	0.0009	6.56E-06
carnitine	rs1040945	A	G	-0.0041	0.0009	6.55E-06
carnitine	rs4470098	A	G	0.0041	0.0009	6.55E-06
carnitine	rs3118824	A	C	0.0041	0.0009	6.54E-06
carnitine	rs4958522	A	G	0.0041	0.0009	6.54E-06
carnitine	rs9285237	A	T	0.004	0.0009	6.49E-06
carnitine	rs9528516	A	T	-0.004	0.0009	6.49E-06
carnitine	rs9317237	T	C	-0.004	0.0009	6.49E-06
carnitine	rs7201421	A	G	0.0041	0.0009	6.47E-06
carnitine	rs1982796	A	G	-0.0069	0.0015	6.47E-06
carnitine	rs6127980	A	G	-0.0079	0.0017	6.44E-06
carnitine	rs7143068	T	C	0.004	0.0009	6.44E-06
carnitine	rs11354	T	C	-0.0041	0.0009	6.41E-06
carnitine	rs6817936	T	C	0.0041	0.0009	6.40E-06
carnitine	rs13162168	A	G	-0.0041	0.0009	6.37E-06

carnitine	rs13264573	T	G	-0.0041	0.0009	6.36E-06
carnitine	rs7656493	T	C	0.0042	0.0009	6.33E-06
carnitine	rs2147061	A	G	0.0041	0.0009	6.28E-06
carnitine	rs1509657	T	C	0.0041	0.0009	6.28E-06
carnitine	rs10147978	A	T	0.0041	0.0009	6.28E-06
carnitine	rs10746872	T	C	-0.0041	0.0009	6.27E-06
carnitine	rs6453431	C	G	-0.0041	0.0009	6.23E-06
carnitine	rs4981610	A	G	0.0041	0.0009	6.19E-06
carnitine	rs2426704	T	C	0.0076	0.0017	6.13E-06
carnitine	rs13394562	A	G	-0.0073	0.0016	6.13E-06
carnitine	rs7038757	T	C	0.0041	0.0009	6.13E-06
carnitine	rs6479215	T	C	0.0041	0.0009	6.12E-06
carnitine	rs2432560	T	G	0.0042	0.0009	6.09E-06
carnitine	rs4078258	T	C	-0.0041	0.0009	6.08E-06
carnitine	rs7953233	A	T	-0.0041	0.0009	6.05E-06
carnitine	rs4550856	A	G	0.0041	0.0009	6.05E-06
carnitine	rs7325944	T	C	-0.0041	0.0009	6.03E-06
carnitine	rs2962321	T	C	-0.0077	0.0017	6.01E-06
carnitine	rs6127975	A	G	-0.0077	0.0017	6.01E-06
carnitine	rs4933391	A	G	0.0042	0.0009	6.00E-06
carnitine	rs10136635	A	G	0.0041	0.0009	6.00E-06
carnitine	rs162311	T	C	0.0076	0.0017	5.97E-06
carnitine	rs2426700	T	C	0.0076	0.0017	5.96E-06
carnitine	rs4130839	T	C	0.0041	0.0009	5.91E-06
carnitine	rs4811828	T	C	0.0077	0.0017	5.89E-06
carnitine	rs6471510	A	G	-0.0041	0.0009	5.87E-06
carnitine	rs10793625	C	G	0.0073	0.0016	5.87E-06
carnitine	rs7604464	A	G	0.0152	0.0034	5.87E-06

carnitine	rs4540902	T	C	-0.0041	0.0009	5.86E-06
carnitine	rs8127674	A	G	-0.0041	0.0009	5.85E-06
carnitine	rs10900232	A	T	0.0069	0.0015	5.81E-06
carnitine	rs1548133	T	C	-0.0041	0.0009	5.81E-06
carnitine	rs11630130	A	G	0.0092	0.002	5.78E-06
carnitine	rs3102204	A	G	-0.0042	0.0009	5.77E-06
carnitine	rs7805092	T	G	-0.0041	0.0009	5.76E-06
carnitine	rs6563299	A	G	0.0041	0.0009	5.75E-06
carnitine	rs9921225	T	G	0.0041	0.0009	5.74E-06
carnitine	rs2000364	T	G	0.0041	0.0009	5.72E-06
carnitine	rs4742905	C	G	0.0041	0.0009	5.69E-06
carnitine	rs12659709	C	G	0.0041	0.0009	5.68E-06
carnitine	rs1155457	T	C	0.0041	0.0009	5.67E-06
carnitine	rs7327611	A	G	0.0041	0.0009	5.65E-06
carnitine	rs7185647	T	C	0.0041	0.0009	5.63E-06
carnitine	rs11942631	A	C	-0.0182	0.004	5.55E-06
carnitine	rs12725366	A	G	-0.0041	0.0009	5.55E-06
carnitine	rs2391162	T	C	-0.0041	0.0009	5.55E-06
carnitine	rs12740246	T	C	-0.0041	0.0009	5.51E-06
carnitine	rs3818625	A	G	0.0041	0.0009	5.45E-06
carnitine	rs1359209	A	G	0.0041	0.0009	5.45E-06
carnitine	rs4641029	T	C	-0.0041	0.0009	5.45E-06
carnitine	rs7562607	T	C	-0.0041	0.0009	5.43E-06
carnitine	rs13158309	A	G	0.0041	0.0009	5.43E-06
carnitine	rs11635276	C	G	-0.0041	0.0009	5.42E-06
carnitine	rs10133631	A	G	0.0041	0.0009	5.41E-06
carnitine	rs630103	A	G	-0.0041	0.0009	5.38E-06
carnitine	rs4633738	A	C	0.0041	0.0009	5.38E-06

carnitine	rs7657449	T	C	-0.0041	0.0009	5.28E-06
carnitine	rs11589858	T	G	-0.0041	0.0009	5.26E-06
carnitine	rs4794047	A	T	-0.0041	0.0009	5.23E-06
carnitine	rs2093424	A	G	-0.0041	0.0009	5.22E-06
carnitine	rs11673046	T	C	-0.0041	0.0009	5.21E-06
carnitine	rs10869018	T	C	-0.0041	0.0009	5.20E-06
carnitine	rs1507515	A	G	0.0041	0.0009	5.19E-06
carnitine	rs2165497	A	G	0.0041	0.0009	5.18E-06
carnitine	rs9819702	T	C	-0.0042	0.0009	5.18E-06
carnitine	rs7959738	T	G	-0.0041	0.0009	5.16E-06
carnitine	rs7297885	T	C	-0.0041	0.0009	5.15E-06
carnitine	rs2362839	A	G	-0.0041	0.0009	5.15E-06
carnitine	rs11920101	T	C	-0.0041	0.0009	5.10E-06
carnitine	rs10024983	A	G	-0.0041	0.0009	5.09E-06
carnitine	rs4711152	T	C	0.0041	0.0009	5.06E-06
carnitine	rs3102205	A	G	-0.0041	0.0009	5.02E-06
carnitine	rs921678	A	G	0.0041	0.0009	5.02E-06
carnitine	rs2457574	A	G	-0.0041	0.0009	5.00E-06
carnitine	rs10130689	T	C	-0.0075	0.0017	4.99E-06
carnitine	rs10111368	A	G	-0.0041	0.0009	4.98E-06
carnitine	rs10512325	T	C	0.0041	0.0009	4.97E-06
carnitine	rs7028408	A	G	0.0041	0.0009	4.97E-06
carnitine	rs4742904	T	C	0.0041	0.0009	4.97E-06
carnitine	rs7048372	T	C	-0.0041	0.0009	4.97E-06
carnitine	rs2274725	T	C	0.0041	0.0009	4.97E-06
carnitine	rs11720144	T	C	-0.0041	0.0009	4.97E-06
carnitine	rs2417485	A	C	-0.0041	0.0009	4.97E-06
carnitine	rs443368	A	T	-0.0041	0.0009	4.93E-06

carnitine	rs448364	T	C	0.0041	0.0009	4.93E-06
carnitine	rs6721330	A	C	-0.0041	0.0009	4.92E-06
carnitine	rs7355681	A	G	0.0041	0.0009	4.91E-06
carnitine	rs3102178	A	G	-0.0041	0.0009	4.85E-06
carnitine	rs6471509	A	T	-0.0041	0.0009	4.83E-06
carnitine	rs6838262	A	G	0.0041	0.0009	4.82E-06
carnitine	rs12503744	A	C	-0.0336	0.0073	4.82E-06
carnitine	rs923075	T	C	-0.0041	0.0009	4.81E-06
carnitine	rs1473269	T	C	0.0041	0.0009	4.81E-06
carnitine	rs791320	T	C	-0.0041	0.0009	4.80E-06
carnitine	rs7995805	T	C	0.0041	0.0009	4.78E-06
carnitine	rs13231650	T	C	0.0041	0.0009	4.78E-06
carnitine	rs238340	A	C	-0.0042	0.0009	4.76E-06
carnitine	rs9861348	A	T	0.0041	0.0009	4.75E-06
carnitine	rs4379417	A	G	0.0041	0.0009	4.74E-06
carnitine	rs9303858	T	C	-0.0043	0.0009	4.74E-06
carnitine	rs9290704	T	G	0.0041	0.0009	4.72E-06
carnitine	rs1756448	T	C	-0.0041	0.0009	4.71E-06
carnitine	rs2504926	T	C	0.0041	0.0009	4.67E-06
carnitine	rs1157181	A	G	0.0041	0.0009	4.65E-06
carnitine	rs2599702	A	G	-0.0041	0.0009	4.65E-06
carnitine	rs10875102	A	G	-0.0042	0.0009	4.63E-06
carnitine	rs1368388	A	G	-0.0041	0.0009	4.62E-06
carnitine	rs10820568	A	G	-0.0042	0.0009	4.61E-06
carnitine	rs663859	T	C	0.0041	0.0009	4.59E-06
carnitine	rs10820605	T	C	0.0041	0.0009	4.57E-06
carnitine	rs11131258	T	C	0.0041	0.0009	4.56E-06
carnitine	rs7799978	A	G	0.0072	0.0016	4.54E-06

carnitine	rs7930416	A	G	-0.0041	0.0009	4.52E-06
carnitine	rs2189438	A	T	0.0041	0.0009	4.52E-06
carnitine	rs966459	A	G	-0.0041	0.0009	4.51E-06
carnitine	rs2457571	T	C	0.0041	0.0009	4.49E-06
carnitine	rs2665355	C	G	-0.0041	0.0009	4.47E-06
carnitine	rs9518635	T	C	0.0041	0.0009	4.46E-06
carnitine	rs9530484	T	C	0.0042	0.0009	4.45E-06
carnitine	rs11239528	A	G	0.0071	0.0015	4.44E-06
carnitine	rs6852374	A	G	0.0041	0.0009	4.44E-06
carnitine	rs944210	A	G	0.0041	0.0009	4.42E-06
carnitine	rs10772966	T	C	0.0042	0.0009	4.41E-06
carnitine	rs11154754	A	T	0.0041	0.0009	4.39E-06
carnitine	rs9897460	A	C	-0.0042	0.0009	4.38E-06
carnitine	rs2504927	T	C	-0.0041	0.0009	4.35E-06
carnitine	rs10820608	A	G	-0.0041	0.0009	4.35E-06
carnitine	rs9395728	T	G	0.0042	0.0009	4.30E-06
carnitine	rs7991989	T	C	0.0041	0.0009	4.30E-06
carnitine	rs998189	C	G	0.0042	0.0009	4.29E-06
carnitine	rs1114130	T	C	-0.0042	0.0009	4.28E-06
carnitine	rs1034563	C	G	-0.0042	0.0009	4.27E-06
carnitine	rs11951585	C	G	-0.0041	0.0009	4.24E-06
carnitine	rs4881000	T	G	0.0042	0.0009	4.20E-06
carnitine	rs2076583	T	C	0.0041	0.0009	4.15E-06
carnitine	rs4742906	A	G	-0.0041	0.0009	4.14E-06
carnitine	rs10820599	T	G	-0.0041	0.0009	4.14E-06
carnitine	rs10761010	A	G	0.0041	0.0009	4.14E-06
carnitine	rs3739737	A	G	-0.0041	0.0009	4.14E-06
carnitine	rs4743687	T	C	0.0041	0.0009	4.14E-06

carnitine	rs7214799	T	C	-0.0041	0.0009	4.14E-06
carnitine	rs4742903	C	G	0.0041	0.0009	4.14E-06
carnitine	rs2274724	T	C	0.0041	0.0009	4.14E-06
carnitine	rs3739736	A	G	0.0041	0.0009	4.14E-06
carnitine	rs2122577	T	C	0.0041	0.0009	4.14E-06
carnitine	rs9419443	T	C	-0.0042	0.0009	4.13E-06
carnitine	rs3127278	C	G	0.0042	0.0009	4.10E-06
carnitine	rs9419515	C	G	0.0042	0.0009	4.09E-06
carnitine	rs10791555	T	C	0.0041	0.0009	4.08E-06
carnitine	rs4722426	A	G	-0.0041	0.0009	4.08E-06
carnitine	rs8006419	A	G	-0.0042	0.0009	4.08E-06
carnitine	rs2291428	C	G	-0.0071	0.0015	4.07E-06
carnitine	rs10820603	A	G	0.0041	0.0009	4.05E-06
carnitine	rs2508305	T	C	-0.0079	0.0017	4.05E-06
carnitine	rs1026181	A	G	-0.0041	0.0009	4.04E-06
carnitine	rs7872034	A	G	0.0041	0.0009	4.04E-06
carnitine	rs10122512	T	C	0.0041	0.0009	4.04E-06
carnitine	rs7350148	T	G	-0.0041	0.0009	4.04E-06
carnitine	rs965038	T	C	0.0041	0.0009	4.01E-06
carnitine	rs8077928	T	C	0.0042	0.0009	4.00E-06
carnitine	rs9784110	T	C	-0.0042	0.0009	3.97E-06
carnitine	rs788510	T	C	0.0042	0.0009	3.97E-06
carnitine	rs9423540	A	C	0.0042	0.0009	3.94E-06
carnitine	rs9947578	A	G	0.0043	0.0009	3.94E-06
carnitine	rs700758	A	G	0.0042	0.0009	3.77E-06
carnitine	rs7011768	A	G	-0.0042	0.0009	3.75E-06
carnitine	rs7732790	A	C	-0.0042	0.0009	3.72E-06
carnitine	rs1888028	A	G	0.0042	0.0009	3.71E-06

carnitine	rs7610160	T	C	0.0042	0.0009	3.71E-06
carnitine	rs7011919	T	G	-0.0042	0.0009	3.70E-06
carnitine	rs1422929	T	C	0.0042	0.0009	3.67E-06
carnitine	rs288344	A	G	0.0042	0.0009	3.62E-06
carnitine	rs9383693	T	C	-0.0042	0.0009	3.57E-06
carnitine	rs6866597	T	G	0.0042	0.0009	3.56E-06
carnitine	rs825668	T	G	-0.0042	0.0009	3.50E-06
carnitine	rs12627165	A	G	0.0044	0.0009	3.46E-06
carnitine	rs9419445	T	C	0.0042	0.0009	3.46E-06
carnitine	rs288280	T	C	-0.0042	0.0009	3.45E-06
carnitine	rs7435034	A	G	-0.0042	0.0009	3.44E-06
carnitine	rs7966246	T	C	0.0042	0.0009	3.44E-06
carnitine	rs294280	T	C	0.0042	0.0009	3.43E-06
carnitine	rs7560476	T	C	0.0075	0.0016	3.43E-06
carnitine	rs10862357	T	G	0.0042	0.0009	3.42E-06
carnitine	rs10840262	C	G	0.0041	0.0009	3.41E-06
carnitine	rs825660	A	G	0.0042	0.0009	3.40E-06
carnitine	rs7760148	A	G	-0.0042	0.0009	3.39E-06
carnitine	rs288258	T	C	0.0042	0.0009	3.38E-06
carnitine	rs288259	A	G	0.0042	0.0009	3.38E-06
carnitine	rs288253	A	T	0.0042	0.0009	3.36E-06
carnitine	rs7573011	A	C	0.0075	0.0016	3.35E-06
carnitine	rs1394597	C	G	-0.0042	0.0009	3.35E-06
carnitine	rs10203488	A	G	0.008	0.0017	3.34E-06
carnitine	rs7712864	A	C	-0.0042	0.0009	3.34E-06
carnitine	rs3127279	A	C	0.0042	0.0009	3.34E-06
carnitine	rs9862576	T	C	0.0042	0.0009	3.33E-06
carnitine	rs10082759	A	G	-0.0042	0.0009	3.29E-06

carnitine	rs10991043	T	C	0.0042	0.0009	3.27E-06
carnitine	rs2417487	A	G	-0.0042	0.0009	3.26E-06
carnitine	rs1446555	A	C	0.008	0.0017	3.21E-06
carnitine	rs9884305	A	G	-0.0042	0.0009	3.16E-06
carnitine	rs1579309	A	T	0.0042	0.0009	3.14E-06
carnitine	rs11958294	A	G	0.0042	0.0009	3.12E-06
carnitine	rs7982892	A	G	0.0042	0.0009	3.12E-06
carnitine	rs2845846	A	G	-0.0042	0.0009	3.11E-06
carnitine	rs9866013	T	C	-0.0043	0.0009	3.11E-06
carnitine	rs17618350	A	G	-0.0189	0.0041	3.09E-06
carnitine	rs10826299	A	C	-0.0042	0.0009	3.08E-06
carnitine	rs10826297	T	C	0.0042	0.0009	3.08E-06
carnitine	rs10826298	C	G	0.0042	0.0009	3.08E-06
carnitine	rs1582101	T	C	-0.0042	0.0009	3.07E-06
carnitine	rs11006524	A	G	0.0042	0.0009	3.06E-06
carnitine	rs726668	A	G	-0.0042	0.0009	3.06E-06
carnitine	rs7211058	A	G	0.0042	0.0009	3.06E-06
carnitine	rs2393551	T	C	-0.0042	0.0009	3.06E-06
carnitine	rs10826291	A	G	-0.0042	0.0009	3.05E-06
carnitine	rs1812126	T	C	-0.0042	0.0009	3.05E-06
carnitine	rs7089488	T	C	0.0042	0.0009	3.03E-06
carnitine	rs4722006	T	C	-0.0042	0.0009	3.03E-06
carnitine	rs288336	T	G	-0.0042	0.0009	3.03E-06
carnitine	rs2236211	A	G	0.0042	0.0009	3.02E-06
carnitine	rs2155128	T	C	-0.0042	0.0009	3.01E-06
carnitine	rs7918186	T	C	0.0042	0.0009	2.96E-06
carnitine	rs10750626	T	C	0.0042	0.0009	2.95E-06
carnitine	rs1059823	A	G	0.0043	0.0009	2.95E-06

carnitine	rs1837069	A	G	-0.0042	0.0009	2.94E-06
carnitine	rs10791556	A	G	0.0042	0.0009	2.94E-06
carnitine	rs6793266	T	C	-0.0043	0.0009	2.92E-06
carnitine	rs262255	T	C	-0.0042	0.0009	2.91E-06
carnitine	rs7116677	A	G	0.0042	0.0009	2.91E-06
carnitine	rs6471513	A	C	-0.0042	0.0009	2.90E-06
carnitine	rs10791558	T	C	0.0042	0.0009	2.89E-06
carnitine	rs11601438	A	G	-0.0042	0.0009	2.89E-06
carnitine	rs7945871	T	C	0.0042	0.0009	2.89E-06
carnitine	rs7943098	A	G	-0.0042	0.0009	2.89E-06
carnitine	rs2595993	A	C	-0.0042	0.0009	2.88E-06
carnitine	rs11085914	T	G	-0.0042	0.0009	2.88E-06
carnitine	rs11155797	T	C	-0.0042	0.0009	2.84E-06
carnitine	rs7086046	A	G	-0.0071	0.0015	2.84E-06
carnitine	rs9415053	C	G	-0.0042	0.0009	2.82E-06
carnitine	rs2836865	T	G	-0.0042	0.0009	2.82E-06
carnitine	rs7155454	A	G	0.0042	0.0009	2.80E-06
carnitine	rs7721482	A	G	-0.0042	0.0009	2.80E-06
carnitine	rs119244	C	G	0.0043	0.0009	2.79E-06
carnitine	rs9479075	A	G	-0.0042	0.0009	2.78E-06
carnitine	rs288300	T	C	-0.0043	0.0009	2.77E-06
carnitine	rs288296	A	G	0.0043	0.0009	2.77E-06
carnitine	rs288240	T	C	0.0043	0.0009	2.76E-06
carnitine	rs288283	T	C	-0.0043	0.0009	2.76E-06
carnitine	rs13509	A	G	-0.0043	0.0009	2.76E-06
carnitine	rs262273	C	G	-0.0042	0.0009	2.76E-06
carnitine	rs288241	A	T	0.0043	0.0009	2.76E-06
carnitine	rs10496315	T	G	-0.0076	0.0016	2.75E-06

carnitine	rs288285	T	G	0.0043	0.0009	2.75E-06
carnitine	rs1430434	A	G	0.0043	0.0009	2.75E-06
carnitine	rs7561070	T	G	-0.0042	0.0009	2.74E-06
carnitine	rs729952	T	G	0.0042	0.0009	2.74E-06
carnitine	rs6471514	T	C	-0.0042	0.0009	2.73E-06
carnitine	rs7607755	T	C	0.0042	0.0009	2.72E-06
carnitine	rs7206986	T	G	-0.0043	0.0009	2.72E-06
carnitine	rs7461025	T	C	0.0043	0.0009	2.70E-06
carnitine	rs1544412	T	C	-0.0043	0.0009	2.68E-06
carnitine	rs11130715	C	G	-0.0043	0.0009	2.68E-06
carnitine	rs724752	T	C	0.0043	0.0009	2.65E-06
carnitine	rs7954772	A	T	0.0042	0.0009	2.65E-06
carnitine	rs12435835	T	G	-0.0042	0.0009	2.64E-06
carnitine	rs7721350	T	G	-0.0042	0.0009	2.60E-06
carnitine	rs700760	T	G	-0.0042	0.0009	2.57E-06
carnitine	rs6506736	A	G	0.0042	0.0009	2.56E-06
carnitine	rs7576048	T	G	-0.0043	0.0009	2.54E-06
carnitine	rs1936602	T	C	0.0043	0.0009	2.53E-06
carnitine	rs6581712	A	G	0.0043	0.0009	2.51E-06
carnitine	rs6602640	T	G	0.008	0.0017	2.50E-06
carnitine	rs6494150	A	C	0.0042	0.0009	2.48E-06
carnitine	rs4722440	T	C	-0.0043	0.0009	2.48E-06
carnitine	rs6909279	C	G	-0.0042	0.0009	2.48E-06
carnitine	rs1922672	C	G	0.0042	0.0009	2.43E-06
carnitine	rs9557806	A	G	-0.0042	0.0009	2.40E-06
carnitine	rs2845853	T	C	-0.0043	0.0009	2.34E-06
carnitine	rs2777015	A	G	0.0042	0.0009	2.33E-06
carnitine	rs1424937	A	G	0.0042	0.0009	2.32E-06

carnitine	rs7738055	A	C	0.0042	0.0009	2.31E-06
carnitine	rs778423	C	G	-0.0043	0.0009	2.28E-06
carnitine	rs17274833	A	C	-0.0042	0.0009	2.22E-06
carnitine	rs7753676	A	G	-0.0043	0.0009	2.22E-06
carnitine	rs2032202	T	C	-0.0043	0.0009	2.22E-06
carnitine	rs2789601	A	C	-0.0043	0.0009	2.21E-06
carnitine	rs4831994	T	C	0.0076	0.0016	2.20E-06
carnitine	rs4525910	A	T	-0.0043	0.0009	2.20E-06
carnitine	rs4832142	A	G	-0.0077	0.0016	2.18E-06
carnitine	rs6706580	T	C	-0.0077	0.0016	2.17E-06
carnitine	rs2789599	A	G	0.0043	0.0009	2.16E-06
carnitine	rs2577264	A	G	0.0043	0.0009	2.12E-06
carnitine	rs1562864	A	G	0.0043	0.0009	2.11E-06
carnitine	rs736727	A	G	0.0043	0.0009	2.11E-06
carnitine	rs735898	T	G	-0.0043	0.0009	2.11E-06
carnitine	rs1376493	T	C	-0.0043	0.0009	2.11E-06
carnitine	rs7929841	T	C	0.0043	0.0009	2.10E-06
carnitine	rs1895315	T	C	0.0043	0.0009	2.10E-06
carnitine	rs3127274	T	C	0.0043	0.0009	2.09E-06
carnitine	rs6785853	A	G	0.0043	0.0009	2.08E-06
carnitine	rs1929425	T	C	0.0043	0.0009	2.08E-06
carnitine	rs948113	A	G	-0.0043	0.0009	2.08E-06
carnitine	rs2135963	C	G	0.0043	0.0009	2.06E-06
carnitine	rs11930385	T	C	-0.0043	0.0009	2.05E-06
carnitine	rs494428	T	G	-0.0043	0.0009	2.04E-06
carnitine	rs758329	A	G	0.0043	0.0009	2.00E-06
carnitine	rs1932578	T	C	-0.0043	0.0009	1.99E-06
carnitine	rs1273061	T	C	-0.0044	0.0009	1.99E-06

carnitine	rs4968319	A	G	-0.0043	0.0009	1.98E-06
carnitine	rs1450765	A	G	-0.0043	0.0009	1.96E-06
carnitine	rs4665406	T	C	-0.0043	0.0009	1.94E-06
carnitine	rs2083062	A	T	0.0043	0.0009	1.93E-06
carnitine	rs6539588	T	C	0.0043	0.0009	1.92E-06
carnitine	rs6727517	T	G	-0.0043	0.0009	1.92E-06
carnitine	rs12245254	T	C	0.0043	0.0009	1.92E-06
carnitine	rs11995567	T	C	0.0043	0.0009	1.92E-06
carnitine	rs7340603	A	C	-0.0043	0.0009	1.90E-06
carnitine	rs4327846	A	G	-0.0043	0.0009	1.90E-06
carnitine	rs13279273	T	G	0.0043	0.0009	1.90E-06
carnitine	rs10111248	T	C	0.0043	0.0009	1.90E-06
carnitine	rs423484	T	C	0.0043	0.0009	1.90E-06
carnitine	rs4722435	T	C	-0.0043	0.0009	1.89E-06
carnitine	rs7963807	A	G	-0.0043	0.0009	1.88E-06
carnitine	rs1317661	A	G	0.0043	0.0009	1.86E-06
carnitine	rs9997562	T	C	0.0043	0.0009	1.86E-06
carnitine	rs6709816	A	G	-0.0077	0.0016	1.86E-06
carnitine	rs11669751	T	C	0.0043	0.0009	1.85E-06
carnitine	rs12510909	T	C	-0.0043	0.0009	1.84E-06
carnitine	rs288332	A	G	-0.0043	0.0009	1.83E-06
carnitine	rs488065	A	G	0.0043	0.0009	1.81E-06
carnitine	rs406189	A	G	-0.0043	0.0009	1.81E-06
carnitine	rs9837535	A	T	0.0043	0.0009	1.81E-06
carnitine	rs4736483	A	G	-0.0044	0.0009	1.80E-06
carnitine	rs9896809	T	C	0.0043	0.0009	1.80E-06
carnitine	rs9813776	C	G	0.0043	0.0009	1.80E-06
carnitine	rs11708862	A	T	-0.0044	0.0009	1.79E-06

carnitine	rs968102	T	C	-0.0043	0.0009	1.78E-06
carnitine	rs11720835	T	G	-0.0044	0.0009	1.76E-06
carnitine	rs4679582	T	C	-0.0044	0.0009	1.76E-06
carnitine	rs7838391	T	C	-0.0044	0.0009	1.76E-06
carnitine	rs9845836	T	C	0.0044	0.0009	1.76E-06
carnitine	rs7967842	T	G	-0.0043	0.0009	1.75E-06
carnitine	rs2710503	C	G	-0.0044	0.0009	1.75E-06
carnitine	rs6831658	T	C	-0.0043	0.0009	1.75E-06
carnitine	rs9869179	A	C	0.0043	0.0009	1.74E-06
carnitine	rs7632967	A	G	-0.0043	0.0009	1.73E-06
carnitine	rs4736480	A	C	-0.0044	0.0009	1.73E-06
carnitine	rs11239545	A	T	-0.0074	0.0015	1.71E-06
carnitine	rs2451996	A	G	0.0043	0.0009	1.67E-06
carnitine	rs3128055	T	C	0.0043	0.0009	1.66E-06
carnitine	rs1897129	A	G	0.0044	0.0009	1.65E-06
carnitine	rs10920115	T	G	0.0044	0.0009	1.64E-06
carnitine	rs549386	T	C	-0.0043	0.0009	1.63E-06
carnitine	rs7974413	T	C	-0.0043	0.0009	1.61E-06
carnitine	rs1225019	A	G	-0.0043	0.0009	1.59E-06
carnitine	rs11630762	C	G	0.0044	0.0009	1.59E-06
carnitine	rs7821997	T	G	0.0044	0.0009	1.57E-06
carnitine	rs4861126	C	G	0.0043	0.0009	1.56E-06
carnitine	rs9881871	T	C	-0.0043	0.0009	1.55E-06
carnitine	rs12334951	C	G	0.0044	0.0009	1.53E-06
carnitine	rs9880736	A	C	-0.0044	0.0009	1.51E-06
carnitine	rs968103	T	C	0.0043	0.0009	1.50E-06
carnitine	rs10239136	T	C	0.0044	0.0009	1.49E-06
carnitine	rs12249012	A	G	-0.0074	0.0015	1.49E-06

carnitine	rs10900221	A	G	-0.0074	0.0015	1.49E-06
carnitine	rs10466245	A	G	-0.0074	0.0015	1.45E-06
carnitine	rs273914	A	T	0.0069	0.0014	1.43E-06
carnitine	rs9862437	T	C	0.0043	0.0009	1.42E-06
carnitine	rs720877	A	T	0.0043	0.0009	1.42E-06
carnitine	rs6937910	T	C	-0.0043	0.0009	1.41E-06
carnitine	rs720876	A	G	0.0043	0.0009	1.41E-06
carnitine	rs1118350	A	G	-0.0044	0.0009	1.38E-06
carnitine	rs7968752	T	G	-0.0044	0.0009	1.36E-06
carnitine	rs4672450	T	C	0.0044	0.0009	1.36E-06
carnitine	rs7963399	T	C	0.0044	0.0009	1.32E-06
carnitine	rs6871347	A	T	0.0044	0.0009	1.31E-06
carnitine	rs2015297	T	G	0.0044	0.0009	1.30E-06
carnitine	rs977041	A	G	0.0044	0.0009	1.27E-06
carnitine	rs1430435	T	C	0.0044	0.0009	1.26E-06
carnitine	rs4587804	A	G	-0.0044	0.0009	1.24E-06
carnitine	rs12197879	T	C	-0.0044	0.0009	1.23E-06
carnitine	rs378999	T	C	-0.0044	0.0009	1.20E-06
carnitine	rs370660	T	C	0.0044	0.0009	1.20E-06
carnitine	rs2305299	T	C	0.0082	0.0017	1.20E-06
carnitine	rs1537385	T	G	0.0317	0.0065	1.19E-06
carnitine	rs9530362	T	C	-0.0044	0.0009	1.17E-06
carnitine	rs6872714	A	G	-0.0044	0.0009	1.17E-06
carnitine	rs4722438	A	G	0.0044	0.0009	1.16E-06
carnitine	rs10822905	A	T	-0.0044	0.0009	1.16E-06
carnitine	rs4713396	A	C	-0.0044	0.0009	1.15E-06
carnitine	rs12201109	A	G	-0.0045	0.0009	1.14E-06
carnitine	rs6554156	T	C	0.0044	0.0009	1.12E-06

carnitine	rs7296019	A	C	-0.0044	0.0009	1.12E-06
carnitine	rs3848713	T	C	-0.0044	0.0009	1.11E-06
carnitine	rs2130882	T	C	0.0044	0.0009	1.11E-06
carnitine	rs10772973	A	T	0.0044	0.0009	1.09E-06
carnitine	rs7971214	T	C	-0.0044	0.0009	1.09E-06
carnitine	rs272865	A	T	-0.007	0.0014	1.09E-06
carnitine	rs11057081	A	G	0.0044	0.0009	1.09E-06
carnitine	rs10846444	A	C	0.0044	0.0009	1.09E-06
carnitine	rs1246267	A	G	0.0045	0.0009	1.09E-06
carnitine	rs10900223	T	C	0.0074	0.0015	1.08E-06
carnitine	rs970548	A	C	0.0074	0.0015	1.07E-06
carnitine	rs10846425	C	G	-0.0044	0.0009	1.05E-06
carnitine	rs12724867	A	G	0.0044	0.0009	1.03E-06
carnitine	rs1760903	A	G	-0.0045	0.0009	1.01E-06
carnitine	rs764073	A	G	0.0044	0.0009	1.01E-06
carnitine	rs10993993	T	C	0.0163	0.0033	9.80E-07
carnitine	rs2200193	T	C	-0.0044	0.0009	9.77E-07
carnitine	rs1038631	A	G	-0.0044	0.0009	9.76E-07
carnitine	rs4764292	T	C	0.0044	0.0009	9.76E-07
carnitine	rs10481187	T	G	0.0045	0.0009	9.69E-07
carnitine	rs11915024	T	G	-0.0044	0.0009	9.59E-07
carnitine	rs766407	T	C	-0.0044	0.0009	9.36E-07
carnitine	rs766406	T	G	0.0044	0.0009	9.35E-07
carnitine	rs6939048	A	G	0.0045	0.0009	9.35E-07
carnitine	rs6596361	T	C	0.0044	0.0009	9.19E-07
carnitine	rs131919	T	C	-0.0046	0.0009	9.01E-07
carnitine	rs2179152	T	C	-0.0045	0.0009	8.96E-07
carnitine	rs4145910	T	C	-0.0045	0.0009	8.83E-07

carnitine	rs12863905	T	C	0.0084	0.0017	8.74E-07
carnitine	rs7214993	C	G	0.0044	0.0009	8.71E-07
carnitine	rs12866267	T	C	-0.0084	0.0017	8.66E-07
carnitine	rs7613963	A	T	0.0044	0.0009	8.62E-07
carnitine	rs2702023	C	G	0.0045	0.0009	8.56E-07
carnitine	rs3781351	A	T	0.0044	0.0009	8.42E-07
carnitine	rs2286460	A	G	-0.0045	0.0009	8.36E-07
carnitine	rs9467703	A	G	-0.0045	0.0009	8.25E-07
carnitine	rs10993988	T	C	-0.0074	0.0015	8.12E-07
carnitine	rs6908972	T	G	-0.009	0.0018	7.99E-07
carnitine	rs350626	T	C	0.0045	0.0009	7.68E-07
carnitine	rs2292871	A	G	0.0045	0.0009	7.68E-07
carnitine	rs6716211	T	C	0.0045	0.0009	7.60E-07
carnitine	rs10197492	A	G	0.0045	0.0009	7.59E-07
carnitine	rs6711508	T	C	-0.0045	0.0009	7.59E-07
carnitine	rs7579236	A	G	0.0045	0.0009	7.59E-07
carnitine	rs10186486	A	G	-0.0045	0.0009	7.59E-07
carnitine	rs11125335	T	C	0.0045	0.0009	7.59E-07
carnitine	rs7568968	T	C	-0.0045	0.0009	7.49E-07
carnitine	rs7564248	A	G	0.0045	0.0009	7.42E-07
carnitine	rs17041353	T	G	0.0045	0.0009	7.33E-07
carnitine	rs4531372	A	G	-0.0045	0.0009	7.13E-07
carnitine	rs12749874	A	G	-0.0045	0.0009	6.57E-07
carnitine	rs12149429	A	T	-0.0045	0.0009	6.50E-07
carnitine	rs12149428	A	G	-0.0045	0.0009	6.50E-07
carnitine	rs9940338	T	C	0.0045	0.0009	6.50E-07
carnitine	rs4243115	T	G	0.0045	0.0009	6.50E-07
carnitine	rs4888501	C	G	0.0045	0.0009	6.50E-07

carnitine	rs4390622	A	T	-0.0045	0.0009	6.49E-07
carnitine	rs9932045	A	C	0.0045	0.0009	6.49E-07
carnitine	rs9302918	A	G	-0.0045	0.0009	6.47E-07
carnitine	rs7067658	T	C	-0.0076	0.0015	6.31E-07
carnitine	rs4880740	T	C	0.0045	0.0009	6.12E-07
carnitine	rs9313491	C	G	0.0047	0.0009	6.09E-07
carnitine	rs10818924	T	C	-0.0045	0.0009	6.08E-07
carnitine	rs17579135	C	G	-0.0045	0.0009	5.97E-07
carnitine	rs2291429	A	C	0.0077	0.0015	5.96E-07
carnitine	rs3732050	A	C	-0.0045	0.0009	5.96E-07
carnitine	rs4881523	T	C	0.0045	0.0009	5.95E-07
carnitine	rs2058858	A	C	0.0045	0.0009	5.95E-07
carnitine	rs6503796	T	C	-0.0045	0.0009	5.95E-07
carnitine	rs1017176	A	G	-0.0045	0.0009	5.95E-07
carnitine	rs4855129	A	G	0.0045	0.0009	5.92E-07
carnitine	rs4930305	T	C	0.0045	0.0009	5.89E-07
carnitine	rs1468898	T	C	-0.0045	0.0009	5.81E-07
carnitine	rs2841648	A	C	-0.005	0.001	5.73E-07
carnitine	rs2777788	A	G	-0.005	0.001	5.73E-07
carnitine	rs8099879	A	C	0.005	0.001	5.73E-07
carnitine	rs4305127	T	C	-0.005	0.001	5.73E-07
carnitine	rs12484	T	C	-0.005	0.001	5.73E-07
carnitine	rs4940563	A	G	-0.005	0.001	5.73E-07
carnitine	rs4888497	A	G	-0.005	0.001	5.73E-07
carnitine	rs2961253	T	C	-0.005	0.001	5.73E-07
carnitine	rs541893	T	C	-0.005	0.001	5.73E-07
carnitine	rs1028981	A	G	-0.005	0.001	5.73E-07
carnitine	rs4149266	A	G	-0.005	0.001	5.73E-07

carnitine	rs2254303	A	G	-0.0047	0.0009	5.68E-07
carnitine	rs2058857	T	C	0.0045	0.0009	5.65E-07
carnitine	rs7220885	A	G	-0.0045	0.0009	5.56E-07
carnitine	rs7898923	T	C	0.0047	0.0009	5.35E-07
carnitine	rs12772745	T	C	0.0047	0.0009	5.32E-07
carnitine	rs3802694	T	G	0.0047	0.0009	5.24E-07
carnitine	rs3750803	T	C	0.0047	0.0009	5.23E-07
carnitine	rs1323569	A	G	-0.0086	0.0017	5.19E-07
carnitine	rs10250709	A	G	-0.0045	0.0009	5.18E-07
carnitine	rs7908849	T	C	0.0046	0.0009	5.15E-07
carnitine	rs11630705	C	G	0.0045	0.0009	5.14E-07
carnitine	rs11594419	A	G	0.0045	0.0009	5.04E-07
carnitine	rs13114196	A	G	0.0045	0.0009	5.02E-07
carnitine	rs12648066	T	G	-0.0045	0.0009	5.00E-07
carnitine	rs12648015	C	G	0.0045	0.0009	4.99E-07
carnitine	rs10270521	T	C	0.0046	0.0009	4.97E-07
carnitine	rs2110504	A	G	-0.0045	0.0009	4.97E-07
carnitine	rs10939356	T	C	0.0045	0.0009	4.93E-07
carnitine	rs6972158	A	G	0.0046	0.0009	4.91E-07
carnitine	rs10275028	T	C	0.0046	0.0009	4.90E-07
carnitine	rs12734378	T	C	0.0045	0.0009	4.82E-07
carnitine	rs189488	A	G	-0.0045	0.0009	4.79E-07
carnitine	rs10489008	A	C	0.0045	0.0009	4.62E-07
carnitine	rs7026148	T	C	-0.0045	0.0009	4.47E-07
carnitine	rs4436868	T	C	0.0045	0.0009	4.29E-07
carnitine	rs10883890	C	G	0.0046	0.0009	4.26E-07
carnitine	rs171235	T	G	-0.0046	0.0009	4.24E-07
carnitine	rs13333507	C	G	-0.0046	0.0009	4.00E-07

carnitine	rs4261575	T	C	0.0046	0.0009	4.00E-07
carnitine	rs4341430	T	C	0.0046	0.0009	3.94E-07
carnitine	rs11707952	A	G	-0.0046	0.0009	3.93E-07
carnitine	rs7926512	A	T	0.0046	0.0009	3.79E-07
carnitine	rs4600111	T	C	-0.0046	0.0009	3.71E-07
carnitine	rs996408	T	C	-0.0046	0.0009	3.67E-07
carnitine	rs4284335	A	G	-0.0046	0.0009	3.53E-07
carnitine	rs769809	A	G	0.0046	0.0009	3.50E-07
carnitine	rs11149901	T	C	0.0046	0.0009	3.47E-07
carnitine	rs7214410	A	G	-0.0046	0.0009	3.45E-07
carnitine	rs7949980	T	C	-0.0046	0.0009	3.34E-07
carnitine	rs11819278	A	G	-0.0046	0.0009	3.34E-07
carnitine	rs6819071	T	C	-0.0047	0.0009	3.33E-07
carnitine	rs1981138	T	G	0.0046	0.0009	3.31E-07
carnitine	rs7499417	A	G	-0.0046	0.0009	3.29E-07
carnitine	rs1506833	T	C	-0.0046	0.0009	3.28E-07
carnitine	rs11227259	T	C	-0.0046	0.0009	3.24E-07
carnitine	rs1912483	A	G	-0.0046	0.0009	3.23E-07
carnitine	rs9889709	T	C	0.0046	0.0009	3.22E-07
carnitine	rs1912482	A	G	0.0046	0.0009	3.20E-07
carnitine	rs7644557	A	G	-0.0046	0.0009	3.20E-07
carnitine	rs10187451	A	C	-0.0046	0.0009	3.12E-07
carnitine	rs818734	A	G	0.0046	0.0009	3.12E-07
carnitine	rs818742	A	C	0.0047	0.0009	3.08E-07
carnitine	rs8179838	T	C	0.0046	0.0009	3.00E-07
carnitine	rs4674438	T	C	0.0046	0.0009	2.93E-07
carnitine	rs899584	T	C	-0.0047	0.0009	2.89E-07
carnitine	rs2125738	A	G	0.0046	0.0009	2.87E-07

carnitine	rs5026090	A	C	0.0047	0.0009	2.83E-07
carnitine	rs2127507	A	G	-0.0046	0.0009	2.81E-07
carnitine	rs12938026	T	C	0.0046	0.0009	2.77E-07
carnitine	rs4888504	T	C	0.0046	0.0009	2.68E-07
carnitine	rs11079774	C	G	-0.0046	0.0009	2.68E-07
carnitine	rs4433831	A	G	0.0046	0.0009	2.68E-07
carnitine	rs2175290	A	C	0.0046	0.0009	2.67E-07
carnitine	rs9893901	T	G	-0.0046	0.0009	2.65E-07
carnitine	rs7083773	A	C	0.0047	0.0009	2.58E-07
carnitine	rs1144963	T	C	-0.0046	0.0009	2.48E-07
carnitine	rs12246131	A	T	0.008	0.0015	2.41E-07
carnitine	rs162901	A	G	0.009	0.0017	2.35E-07
carnitine	rs9875116	A	C	-0.0046	0.0009	2.34E-07
carnitine	rs156110	C	G	-0.009	0.0017	2.34E-07
carnitine	rs6779747	A	G	0.0046	0.0009	2.33E-07
carnitine	rs1993928	A	G	-0.0046	0.0009	2.33E-07
carnitine	rs6441655	C	G	0.0047	0.0009	2.28E-07
carnitine	rs1585772	A	G	-0.0047	0.0009	2.24E-07
carnitine	rs1877796	T	C	-0.0047	0.0009	2.22E-07
carnitine	rs721992	T	G	-0.0047	0.0009	2.22E-07
carnitine	rs844016	T	C	0.0047	0.0009	2.22E-07
carnitine	rs2469	T	C	-0.0047	0.0009	2.20E-07
carnitine	rs140572	A	C	0.0047	0.0009	2.19E-07
carnitine	rs2170082	A	G	-0.0047	0.0009	2.16E-07
carnitine	rs977643	A	G	0.0047	0.0009	2.14E-07
carnitine	rs4714677	T	G	-0.0047	0.0009	2.04E-07
carnitine	rs2125737	T	C	-0.0047	0.0009	2.04E-07
carnitine	rs9369407	A	T	0.0047	0.0009	2.04E-07

carnitine	rs7658503	T	G	-0.0047	0.0009	2.04E-07
carnitine	rs9381237	T	C	0.0047	0.0009	2.04E-07
carnitine	rs10878464	A	G	0.0047	0.0009	2.02E-07
carnitine	rs9369408	A	C	-0.0047	0.0009	2.02E-07
carnitine	rs10878467	T	C	0.0047	0.0009	2.02E-07
carnitine	rs1925611	A	G	-0.0048	0.0009	2.00E-07
carnitine	rs2841642	T	G	-0.0047	0.0009	1.99E-07
carnitine	rs10802528	T	G	-0.0047	0.0009	1.95E-07
carnitine	rs9912311	T	C	-0.0047	0.0009	1.94E-07
carnitine	rs2054145	T	C	0.0047	0.0009	1.91E-07
carnitine	rs7691894	A	G	0.0047	0.0009	1.91E-07
carnitine	rs13143115	T	C	0.0047	0.0009	1.91E-07
carnitine	rs2305593	A	G	-0.0047	0.0009	1.91E-07
carnitine	rs12501132	A	G	-0.0047	0.0009	1.91E-07
carnitine	rs2168405	A	C	-0.0047	0.0009	1.91E-07
carnitine	rs13127151	T	C	-0.0047	0.0009	1.91E-07
carnitine	rs2054144	T	C	-0.0047	0.0009	1.91E-07
carnitine	rs10517901	A	C	0.0047	0.0009	1.91E-07
carnitine	rs2054146	T	C	0.0047	0.0009	1.91E-07
carnitine	rs7734456	C	G	-0.0047	0.0009	1.91E-07
carnitine	rs4859980	T	C	-0.0047	0.0009	1.90E-07
carnitine	rs4860020	A	G	-0.0047	0.0009	1.90E-07
carnitine	rs4627894	A	G	-0.0047	0.0009	1.90E-07
carnitine	rs4859978	T	C	0.0047	0.0009	1.90E-07
carnitine	rs745244	T	C	0.0047	0.0009	1.90E-07
carnitine	rs2219234	A	G	0.0047	0.0009	1.90E-07
carnitine	rs6544585	A	C	0.0047	0.0009	1.90E-07
carnitine	rs2318489	T	C	-0.0047	0.0009	1.90E-07

carnitine	rs9838540	A	C	0.0047	0.0009	1.80E-07
carnitine	rs11223211	A	G	0.0047	0.0009	1.71E-07
carnitine	rs12452796	A	C	-0.0047	0.0009	1.66E-07
carnitine	rs17370344	A	C	-0.0047	0.0009	1.66E-07
carnitine	rs6544586	A	G	0.0048	0.0009	1.66E-07
carnitine	rs10820588	T	G	0.0048	0.0009	1.64E-07
carnitine	rs2242416	A	G	0.0047	0.0009	1.57E-07
carnitine	rs2841647	A	C	-0.0047	0.0009	1.57E-07
carnitine	rs9570657	A	C	0.0047	0.0009	1.56E-07
carnitine	rs1574430	A	C	0.0047	0.0009	1.56E-07
carnitine	rs3762244	A	G	0.0048	0.0009	1.53E-07
carnitine	rs2394298	A	G	0.0047	0.0009	1.51E-07
carnitine	rs10761414	T	C	-0.0047	0.0009	1.50E-07
carnitine	rs8179836	C	G	0.0048	0.0009	1.49E-07
carnitine	rs4948364	T	C	0.0048	0.0009	1.36E-07
carnitine	rs7079829	T	C	0.0048	0.0009	1.35E-07
carnitine	rs12449647	A	C	0.0048	0.0009	1.25E-07
carnitine	rs4794048	A	C	-0.0048	0.0009	1.16E-07
carnitine	rs2501856	C	G	0.0048	0.0009	1.14E-07
carnitine	rs1913513	T	C	0.0048	0.0009	1.13E-07
carnitine	rs7210738	A	G	-0.0048	0.0009	1.10E-07
carnitine	rs3809868	A	G	-0.0048	0.0009	1.09E-07
carnitine	rs10784558	T	C	-0.0048	0.0009	1.06E-07
carnitine	rs1913512	T	C	0.0048	0.0009	1.03E-07
carnitine	rs1115574	A	T	0.0048	0.0009	1.01E-07
carnitine	rs1479614	A	G	-0.0048	0.0009	9.93E-08
carnitine	rs2720281	A	G	0.0048	0.0009	9.59E-08
carnitine	rs721991	A	C	0.0048	0.0009	9.42E-08

carnitine	rs2456830	T	G	0.0048	0.0009	9.40E-08
carnitine	rs1955321	T	C	-0.0048	0.0009	9.35E-08
carnitine	rs1449844	C	G	-0.0048	0.0009	9.23E-08
carnitine	rs7644368	A	G	-0.0048	0.0009	9.21E-08
carnitine	rs6912283	A	G	-0.0048	0.0009	8.65E-08
carnitine	rs7162803	A	G	0.0048	0.0009	8.50E-08
carnitine	rs12875976	A	G	-0.0091	0.0017	8.43E-08
carnitine	rs6919440	A	G	-0.0048	0.0009	8.27E-08
carnitine	rs4948358	A	G	-0.0082	0.0015	8.27E-08
carnitine	rs10993992	C	G	-0.0081	0.0015	8.19E-08
carnitine	rs1610649	T	C	-0.0049	0.0009	7.92E-08
carnitine	rs17065231	T	C	-0.0092	0.0017	7.16E-08
carnitine	rs3763009	A	G	-0.0049	0.0009	6.81E-08
carnitine	rs2393572	T	C	0.0049	0.0009	6.60E-08
carnitine	rs6772323	A	C	0.0049	0.0009	6.10E-08
carnitine	rs7644433	A	G	-0.0049	0.0009	6.10E-08
carnitine	rs13092835	T	G	0.0049	0.0009	6.09E-08
carnitine	rs7148590	A	G	0.0049	0.0009	6.07E-08
carnitine	rs2720280	A	G	0.0049	0.0009	6.02E-08
carnitine	rs9942113	A	C	-0.0049	0.0009	6.00E-08
carnitine	rs3128061	T	G	-0.0049	0.0009	5.74E-08
carnitine	rs4497739	T	C	0.0049	0.0009	5.65E-08
carnitine	rs6535870	T	C	-0.005	0.0009	5.50E-08
carnitine	rs2501849	T	C	-0.0049	0.0009	5.45E-08
carnitine	rs4586342	C	G	0.0049	0.0009	5.35E-08
carnitine	rs162192	A	C	-0.0049	0.0009	5.21E-08
carnitine	rs12259529	T	G	-0.0049	0.0009	5.19E-08
carnitine	rs459625	T	C	-0.0049	0.0009	5.18E-08

carnitine	rs4899159	A	G	-0.0049	0.0009	5.08E-08
carnitine	rs13062	A	C	-0.005	0.0009	4.99E-08
carnitine	rs2279014	T	C	-0.005	0.0009	4.86E-08
carnitine	rs1007602	T	C	0.005	0.0009	4.85E-08
carnitine	rs6504872	T	C	0.0049	0.0009	4.78E-08
carnitine	rs8070463	T	C	-0.0049	0.0009	4.70E-08
carnitine	rs2492788	T	C	0.0049	0.0009	4.58E-08
carnitine	rs2396004	A	G	0.0049	0.0009	4.32E-08
carnitine	rs2131978	A	G	0.005	0.0009	4.21E-08
carnitine	rs10761415	T	C	-0.005	0.0009	4.04E-08
carnitine	rs2220839	A	T	0.005	0.0009	3.95E-08
carnitine	rs7206971	A	G	0.005	0.0009	3.80E-08
carnitine	rs1316753	C	G	-0.005	0.0009	3.74E-08
carnitine	rs10805925	A	G	0.005	0.0009	3.73E-08
carnitine	rs10474578	T	C	0.005	0.0009	3.73E-08
carnitine	rs13165414	T	C	-0.005	0.0009	3.72E-08
carnitine	rs2607142	T	C	0.005	0.0009	3.71E-08
carnitine	rs2591386	T	C	-0.005	0.0009	3.69E-08
carnitine	rs6874525	T	C	0.005	0.0009	3.62E-08
carnitine	rs4948243	A	T	-0.005	0.0009	3.61E-08
carnitine	rs13182512	A	T	-0.005	0.0009	3.36E-08
carnitine	rs10821600	C	G	0.005	0.0009	3.34E-08
carnitine	rs7075215	A	T	0.005	0.0009	3.33E-08
carnitine	rs4948366	T	C	0.005	0.0009	3.24E-08
carnitine	rs9971121	T	C	0.005	0.0009	3.24E-08
carnitine	rs7909766	C	G	-0.005	0.0009	3.23E-08
carnitine	rs7894842	T	G	0.005	0.0009	3.23E-08
carnitine	rs11627531	T	C	-0.005	0.0009	3.18E-08

carnitine	rs12452315	A	C	-0.005	0.0009	3.04E-08
carnitine	rs11183620	A	G	0.005	0.0009	3.00E-08
carnitine	rs2114713	T	G	-0.005	0.0009	2.67E-08
carnitine	rs10873457	T	C	0.0051	0.0009	2.58E-08
carnitine	rs3760371	T	C	0.005	0.0009	2.54E-08
carnitine	rs1981525	T	C	-0.0138	0.0025	2.53E-08
carnitine	rs4239163	T	C	0.005	0.0009	2.52E-08
carnitine	rs4239162	A	G	0.005	0.0009	2.52E-08
carnitine	rs11079783	A	G	-0.005	0.0009	2.41E-08
carnitine	rs11620973	A	G	-0.0051	0.0009	2.35E-08
carnitine	rs1180565	A	G	-0.005	0.0009	2.29E-08
carnitine	rs8072100	A	T	0.005	0.0009	2.07E-08
carnitine	rs11870935	A	G	-0.005	0.0009	2.03E-08
carnitine	rs8065669	A	G	0.005	0.0009	2.03E-08
carnitine	rs12262735	A	G	-0.0051	0.0009	1.94E-08
carnitine	rs8074149	A	C	0.0051	0.0009	1.76E-08
carnitine	rs11620955	A	G	-0.0051	0.0009	1.63E-08
carnitine	rs7099368	T	C	0.0051	0.0009	1.52E-08
carnitine	rs8072644	A	T	0.0051	0.0009	1.52E-08
carnitine	rs1004234	A	G	-0.0143	0.0025	1.36E-08
carnitine	rs8065990	A	G	-0.0051	0.0009	1.18E-08
carnitine	rs4794058	T	C	-0.0051	0.0009	1.15E-08
carnitine	rs11242111	A	G	-0.0142	0.0025	8.19E-09
carnitine	rs9901869	A	G	0.0052	0.0009	7.49E-09
carnitine	rs12709393	T	G	0.0053	0.0009	6.41E-09
carnitine	rs8078880	C	G	-0.0052	0.0009	5.93E-09
carnitine	rs11871606	A	C	-0.0052	0.0009	5.82E-09
carnitine	rs4289035	T	C	0.0052	0.0009	4.95E-09

carnitine	rs3760370	T	C	-0.0052	0.0009	4.91E-09
carnitine	rs12943464	A	T	0.0052	0.0009	4.91E-09
carnitine	rs4793978	A	G	-0.0052	0.0009	4.90E-09
carnitine	rs11079784	T	C	0.0053	0.0009	3.20E-09
carnitine	rs7695294	T	C	-0.0054	0.0009	2.32E-09
carnitine	rs7674160	A	T	0.0054	0.0009	2.32E-09
carnitine	rs6826647	T	C	-0.0054	0.0009	2.15E-09
carnitine	rs735315	T	C	0.0054	0.0009	1.87E-09
carnitine	rs2161359	A	G	-0.0055	0.0009	1.38E-09
carnitine	rs4860022	T	C	-0.0055	0.0009	9.60E-10
carnitine	rs6862024	A	G	-0.0055	0.0009	8.99E-10
carnitine	rs9912101	T	C	-0.0055	0.0009	7.36E-10
carnitine	rs9892497	A	G	0.0056	0.0009	6.23E-10
carnitine	rs10463891	A	G	0.0057	0.0009	4.58E-10
carnitine	rs13189284	A	C	-0.0158	0.0025	4.47E-10
carnitine	rs1912484	C	G	-0.0056	0.0009	4.10E-10
carnitine	rs8075843	T	C	0.0056	0.0009	4.08E-10
carnitine	rs8079142	A	G	0.0056	0.0009	4.07E-10
carnitine	rs4968257	A	G	-0.0057	0.0009	3.93E-10
carnitine	rs3851808	T	C	0.0057	0.0009	3.92E-10
carnitine	rs4968318	A	G	0.0057	0.0009	3.88E-10
carnitine	rs11079776	T	C	0.0057	0.0009	3.56E-10
carnitine	rs11651643	A	G	-0.0057	0.0009	3.23E-10
carnitine	rs1912486	A	G	-0.0057	0.0009	3.19E-10
carnitine	rs3826536	A	T	0.0057	0.0009	3.19E-10
carnitine	rs3736438	T	G	-0.0057	0.0009	3.19E-10
carnitine	rs4948238	A	G	0.0094	0.0015	2.94E-10
carnitine	rs1913511	T	G	-0.0094	0.0015	2.72E-10

carnitine	rs3900945	T	C	0.0058	0.0009	2.58E-10
carnitine	rs3768480	C	G	-0.0057	0.0009	1.94E-10
carnitine	rs10821582	A	G	-0.0095	0.0015	1.79E-10
carnitine	rs4948244	T	C	-0.0059	0.0009	7.03E-11
carnitine	rs162904	T	C	0.006	0.0009	6.97E-11
carnitine	rs6596075	C	G	0.0105	0.0016	6.94E-11
carnitine	rs274548	T	C	-0.0106	0.0016	6.78E-11
carnitine	rs7737937	A	G	-0.0109	0.0017	4.91E-11
carnitine	rs274547	A	T	-0.0107	0.0016	4.35E-11
carnitine	rs6893782	A	C	0.0106	0.0016	3.82E-11
carnitine	rs7705826	T	G	-0.0106	0.0016	3.68E-11
carnitine	rs274552	C	G	0.0108	0.0016	3.10E-11
carnitine	rs7727038	T	C	-0.006	0.0009	3.04E-11
carnitine	rs274549	A	C	-0.0111	0.0016	1.41E-11
carnitine	rs274551	T	C	-0.0111	0.0016	6.47E-12
carnitine	rs274554	T	C	-0.0112	0.0016	4.84E-12
carnitine	rs274553	C	G	0.0112	0.0016	4.54E-12
carnitine	rs2897160	T	C	0.0112	0.0016	4.54E-12
carnitine	rs274550	T	G	0.0111	0.0016	4.51E-12
carnitine	rs9842133	T	C	0.0064	0.0009	4.20E-12
carnitine	rs12042401	T	C	-0.0063	0.0009	3.67E-12
carnitine	rs2631363	A	G	-0.007	0.001	2.56E-12
carnitine	rs2631361	A	C	0.007	0.001	2.56E-12
carnitine	rs2405522	A	G	-0.0113	0.0016	2.32E-12
carnitine	rs7545139	A	G	0.0063	0.0009	2.24E-12
carnitine	rs666842	T	C	-0.0064	0.0009	1.05E-12
carnitine	rs10745308	A	C	-0.0064	0.0009	1.05E-12
carnitine	rs10857811	T	G	-0.0064	0.0009	8.56E-13

carnitine	rs1077581	C	G	-0.0066	0.0009	3.19E-13
carnitine	rs7098081	A	G	0.0184	0.0025	3.10E-13
carnitine	rs3754439	A	G	-0.0066	0.0009	2.29E-13
carnitine	rs4948351	T	C	0.0115	0.0016	2.09E-13
carnitine	rs4838890	T	C	0.0066	0.0009	2.04E-13
carnitine	rs904023	A	G	0.0066	0.0009	1.97E-13
carnitine	rs1077580	A	G	-0.0066	0.0009	1.85E-13
carnitine	rs3754443	T	G	-0.0066	0.0009	1.77E-13
carnitine	rs1171647	A	G	-0.0116	0.0015	6.65E-14
carnitine	rs7727544	T	C	-0.0068	0.0009	4.55E-14
carnitine	rs272874	T	C	-0.0069	0.0009	4.55E-14
carnitine	rs272842	A	G	0.0069	0.0009	2.25E-14
carnitine	rs274557	T	C	-0.0069	0.0009	2.19E-14
carnitine	rs274558	A	G	-0.0069	0.0009	2.18E-14
carnitine	rs274567	T	C	0.0069	0.0009	1.81E-14
carnitine	rs1171660	A	G	-0.0114	0.0015	1.27E-14
carnitine	rs270605	T	C	-0.0069	0.0009	1.22E-14
carnitine	rs274560	T	C	-0.007	0.0009	1.17E-14
carnitine	rs274559	A	G	-0.007	0.0009	1.10E-14
carnitine	rs274562	C	G	0.007	0.0009	1.03E-14
carnitine	rs270613	A	G	0.007	0.0009	9.19E-15
carnitine	rs1171648	T	C	0.0118	0.0015	8.86E-15
carnitine	rs3763747	A	G	-0.012	0.0015	7.83E-15
carnitine	rs272886	T	C	0.007	0.0009	7.39E-15
carnitine	rs272893	T	C	0.007	0.0009	6.97E-15
carnitine	rs274561	A	C	0.007	0.0009	6.88E-15
carnitine	rs272889	A	G	0.007	0.0009	6.84E-15
carnitine	rs270602	T	C	0.007	0.0009	6.69E-15

carnitine	rs272884	C	G	-0.007	0.0009	6.57E-15
carnitine	rs272879	C	G	0.007	0.0009	6.57E-15
carnitine	rs272881	A	G	-0.007	0.0009	6.57E-15
carnitine	rs272867	A	G	-0.007	0.0009	6.54E-15
carnitine	rs272875	T	C	0.007	0.0009	6.52E-15
carnitine	rs2631370	T	C	-0.007	0.0009	6.26E-15
carnitine	rs272869	A	G	0.007	0.0009	5.51E-15
carnitine	rs274546	A	G	0.007	0.0009	4.93E-15
carnitine	rs273913	T	C	0.0071	0.0009	3.79E-15
carnitine	rs1171652	T	C	-0.012	0.0015	3.69E-15
carnitine	rs1171645	A	T	-0.012	0.0015	3.61E-15
carnitine	rs11599171	A	G	0.0122	0.0015	2.74E-15
carnitine	rs1171606	A	G	0.0119	0.0015	2.41E-15
carnitine	rs10826342	T	G	0.0119	0.0015	2.39E-15
carnitine	rs1171643	A	G	-0.0121	0.0015	1.24E-15
carnitine	rs11006679	A	G	0.0121	0.0015	1.06E-15
carnitine	rs2893807	T	C	-0.0122	0.0015	7.42E-16
carnitine	rs1904071	T	G	-0.0122	0.0015	6.02E-16
carnitine	rs2242206	T	G	0.0122	0.0015	4.67E-16
carnitine	rs1171650	T	C	0.0124	0.0015	3.21E-16
carnitine	rs1466788	A	G	-0.0074	0.0009	3.05E-16
carnitine	rs1171659	A	G	-0.0125	0.0015	1.02E-16
carnitine	rs1171583	C	G	0.0077	0.0009	2.03E-17
carnitine	rs1171582	T	C	0.0077	0.0009	1.25E-17
carnitine	rs1171594	A	C	-0.0078	0.0009	7.54E-18
carnitine	rs1913506	A	G	-0.0078	0.0009	5.72E-18
carnitine	rs4948360	T	C	0.0078	0.0009	5.49E-18
carnitine	rs419291	T	C	0.0079	0.0009	3.10E-18

carnitine	rs2090123	A	G	0.0079	0.0009	2.60E-18
carnitine	rs753763	T	C	0.0378	0.0043	7.21E-19
carnitine	rs1171610	T	C	0.0081	0.0009	2.49E-19
carnitine	rs2671613	T	C	-0.0082	0.0009	1.06E-19
carnitine	rs1171658	A	G	-0.0139	0.0015	1.33E-20
carnitine	rs10128501	A	G	0.0086	0.0009	1.88E-21
carnitine	rs7072771	T	C	-0.0086	0.0009	1.72E-21
carnitine	rs1913507	T	C	-0.0087	0.0009	1.36E-21
carnitine	rs9943397	A	G	-0.0087	0.0009	1.30E-21
carnitine	rs10821585	A	G	-0.0086	0.0009	1.28E-21
carnitine	rs6479648	A	G	-0.0087	0.0009	8.40E-22
carnitine	rs1171619	A	G	-0.028	0.0018	1.53E-56
carnitine	rs1171620	C	G	-0.028	0.0018	1.45E-56
carnitine	rs7094971	A	G	0.0263	0.0016	9.52E-58
carnitine	rs753762	A	G	-0.0267	0.0017	8.95E-59
carnitine	rs1171618	T	C	-0.0151	0.0009	1.58E-59
carnitine	rs12772586	T	C	0.027	0.0017	1.21E-59
carnitine	rs1171614	T	C	-0.0291	0.0017	1.80E-62
carnitine	rs1171616	T	G	0.0291	0.0017	1.73E-62
carnitine	rs1171615	T	C	0.0291	0.0017	1.73E-62
carnitine	rs1171617	T	G	0.0291	0.0017	1.66E-62
carnitine	rs12356193	A	G	0.0274	0.0016	3.69E-63
cholate	rs6566183	T	C	0.0451	0.0102	9.77E-06
cholate	rs11130921	T	C	0.0591	0.0134	9.64E-06
cholate	rs2244231	A	T	-0.0453	0.0102	9.28E-06
cholate	rs6698504	T	C	0.2446	0.055	8.87E-06
cholate	rs6695258	A	C	-0.2579	0.058	8.82E-06
cholate	rs16823145	A	G	-0.2614	0.0587	8.58E-06

cholate	rs2689327	A	G	0.0492	0.011	7.74E-06
cholate	rs1868259	A	G	0.0818	0.0183	7.67E-06
cholate	rs6767034	A	G	0.0598	0.0134	7.57E-06
cholate	rs2587400	A	G	-0.0458	0.0102	7.41E-06
cholate	rs2587401	C	G	-0.0458	0.0102	7.41E-06
cholate	rs1451305	C	G	0.0599	0.0134	7.40E-06
cholate	rs10999482	T	G	-0.0496	0.011	7.28E-06
cholate	rs6595543	A	G	0.074	0.0165	7.19E-06
cholate	rs6945832	A	G	-0.0463	0.0102	6.01E-06
cholate	rs9510021	A	C	-0.0468	0.0103	5.77E-06
cholate	rs310271	A	G	-0.0533	0.0117	5.53E-06
cholate	rs8086456	A	G	-0.0466	0.0102	5.00E-06
cholate	rs4688166	C	G	-0.0619	0.0134	3.61E-06
cholate	rs2363821	A	G	-0.0564	0.0121	3.45E-06
cholate	rs2363820	C	G	-0.0678	0.0145	3.08E-06
cholate	rs1523437	A	G	-0.0619	0.0132	2.75E-06
cholate	rs17723514	A	G	-0.0481	0.0102	2.30E-06
cholesterol	rs3820527	C	G	-0.0076	0.0017	9.84E-06
cholesterol	rs7148384	T	C	0.0078	0.0018	9.58E-06
cholesterol	rs7697390	T	C	0.0077	0.0017	9.55E-06
cholesterol	rs9742643	T	C	-0.0078	0.0018	9.44E-06
cholesterol	rs1411983	A	T	-0.0073	0.0017	9.21E-06
cholesterol	rs2076334	C	G	-0.0076	0.0017	8.98E-06
cholesterol	rs9295993	A	G	-0.0077	0.0017	8.60E-06
cholesterol	rs871748	T	C	-0.0082	0.0018	8.56E-06
cholesterol	rs17293443	T	C	0.0078	0.0017	8.09E-06
cholesterol	rs1387676	T	G	-0.0082	0.0018	7.95E-06
cholesterol	rs4602115	T	G	0.0146	0.0033	7.65E-06

cholesterol	rs17683567	T	C	0.0078	0.0017	7.57E-06
cholesterol	rs9266846	C	G	-0.0076	0.0017	7.43E-06
cholesterol	rs11022174	A	G	0.0101	0.0023	7.36E-06
cholesterol	rs11625953	A	G	-0.0082	0.0018	7.25E-06
cholesterol	rs6932236	T	C	-0.0077	0.0017	7.22E-06
cholesterol	rs2050223	A	G	-0.0078	0.0017	7.22E-06
cholesterol	rs11627310	A	G	0.0082	0.0018	7.11E-06
cholesterol	rs11722062	A	G	-0.0078	0.0017	7.07E-06
cholesterol	rs7200440	T	C	-0.0074	0.0016	7.02E-06
cholesterol	rs1479402	T	C	0.0306	0.0068	6.85E-06
cholesterol	rs1778777	A	C	-0.009	0.002	6.80E-06
cholesterol	rs4784135	T	C	0.009	0.002	6.80E-06
cholesterol	rs9266844	C	G	0.0078	0.0017	6.71E-06
cholesterol	rs17749804	T	C	-0.0083	0.0018	6.67E-06
cholesterol	rs2869804	A	G	0.0078	0.0017	6.50E-06
cholesterol	rs7327577	T	C	0.008	0.0018	6.49E-06
cholesterol	rs11622024	A	G	-0.0082	0.0018	6.38E-06
cholesterol	rs7333546	T	G	0.008	0.0018	6.34E-06
cholesterol	rs7657706	A	T	0.0078	0.0017	6.22E-06
cholesterol	rs7327236	C	G	-0.008	0.0018	6.19E-06
cholesterol	rs17795986	T	C	0.008	0.0018	6.17E-06
cholesterol	rs11111293	T	C	-0.008	0.0018	6.12E-06
cholesterol	rs17795369	C	G	0.0081	0.0018	6.08E-06
cholesterol	rs1124515	A	G	-0.0078	0.0017	6.01E-06
cholesterol	rs7152917	A	C	-0.0083	0.0018	6.00E-06
cholesterol	rs2596530	A	G	0.0075	0.0017	5.95E-06
cholesterol	rs12881791	T	G	-0.0083	0.0018	5.91E-06
cholesterol	rs261332	A	G	0.0104	0.0023	5.88E-06

cholesterol	rs11813145	A	G	0.0076	0.0017	5.87E-06
cholesterol	rs7761068	A	G	-0.0076	0.0017	5.79E-06
cholesterol	rs2242196	T	C	-0.008	0.0018	5.74E-06
cholesterol	rs7329734	T	C	-0.0081	0.0018	5.68E-06
cholesterol	rs2256183	A	G	-0.0075	0.0017	5.66E-06
cholesterol	rs2853977	A	T	-0.0075	0.0017	5.66E-06
cholesterol	rs4839199	T	G	-0.0079	0.0017	5.58E-06
cholesterol	rs17728920	A	C	0.0081	0.0018	5.30E-06
cholesterol	rs12881180	T	C	-0.0081	0.0018	5.25E-06
cholesterol	rs11099549	T	C	-0.0079	0.0017	5.13E-06
cholesterol	rs927961	T	G	-0.0079	0.0017	5.06E-06
cholesterol	rs1433904	T	C	0.0442	0.0097	5.06E-06
cholesterol	rs10207315	T	G	0.0078	0.0017	4.79E-06
cholesterol	rs810551	C	G	0.008	0.0017	4.66E-06
cholesterol	rs2844511	A	G	-0.0076	0.0017	4.61E-06
cholesterol	rs2516448	T	C	-0.0076	0.0017	4.59E-06
cholesterol	rs4401492	T	G	0.0082	0.0018	4.52E-06
cholesterol	rs6970076	T	C	-0.0079	0.0017	4.37E-06
cholesterol	rs11577912	A	C	-0.0081	0.0018	4.29E-06
cholesterol	rs3747924	T	C	0.0083	0.0018	4.24E-06
cholesterol	rs1005596	A	G	0.0115	0.0025	4.20E-06
cholesterol	rs3869132	T	C	0.0079	0.0017	4.06E-06
cholesterol	rs1800588	T	C	0.0106	0.0023	4.00E-06
cholesterol	rs7595385	T	C	0.0237	0.0051	3.83E-06
cholesterol	rs2026590	T	G	0.008	0.0017	3.76E-06
cholesterol	rs12120920	T	C	0.0082	0.0018	3.72E-06
cholesterol	rs886282	T	C	0.0081	0.0018	3.71E-06
cholesterol	rs10966493	C	G	0.008	0.0017	3.67E-06

cholesterol	rs12648765	A	G	0.0564	0.0122	3.57E-06
cholesterol	rs12138237	T	C	-0.0081	0.0018	3.55E-06
cholesterol	rs12896813	T	C	-0.0082	0.0018	3.52E-06
cholesterol	rs7315994	C	G	0.0116	0.0025	3.24E-06
cholesterol	rs11162263	A	G	0.0082	0.0018	3.09E-06
cholesterol	rs12129956	A	T	-0.0082	0.0018	3.02E-06
cholesterol	rs17555468	T	C	0.0082	0.0018	2.94E-06
cholesterol	rs11162102	A	G	-0.0082	0.0018	2.92E-06
cholesterol	rs1409787	T	C	-0.0082	0.0018	2.92E-06
cholesterol	rs11586363	T	C	-0.0082	0.0018	2.91E-06
cholesterol	rs12116622	T	C	-0.0082	0.0018	2.89E-06
cholesterol	rs11162161	T	C	0.0082	0.0018	2.89E-06
cholesterol	rs2259571	T	G	-0.0078	0.0017	2.86E-06
cholesterol	rs17619669	A	T	0.0082	0.0017	2.84E-06
cholesterol	rs1327096	A	T	0.0082	0.0017	2.62E-06
cholesterol	rs6603141	A	G	-0.0081	0.0017	2.61E-06
cholesterol	rs261342	C	G	-0.0108	0.0023	2.60E-06
cholesterol	rs2070895	A	G	0.0107	0.0023	2.56E-06
cholesterol	rs1327094	T	C	-0.0083	0.0018	2.54E-06
cholesterol	rs7158837	T	C	-0.0113	0.0024	2.54E-06
cholesterol	rs12410792	T	G	-0.0083	0.0018	2.51E-06
cholesterol	rs1077835	A	G	-0.0108	0.0023	2.44E-06
cholesterol	rs4783761	A	G	0.0078	0.0016	2.21E-06
cholesterol	rs6718960	A	G	0.0082	0.0017	2.19E-06
cholesterol	rs11590560	A	C	-0.0083	0.0018	2.18E-06
cholesterol	rs10011091	T	C	0.0086	0.0018	2.15E-06
cholesterol	rs17182784	T	C	-0.0082	0.0017	2.10E-06
cholesterol	rs1388085	C	G	-0.0153	0.0032	2.00E-06

cholesterol	rs2031725	A	G	0.0082	0.0017	1.99E-06
cholesterol	rs11106131	T	G	-0.0089	0.0019	1.81E-06
cholesterol	rs4544230	A	C	-0.0079	0.0017	1.69E-06
cholesterol	rs2870664	T	C	0.0147	0.0031	1.60E-06
cholesterol	rs6573766	T	G	-0.0085	0.0018	1.55E-06
cholesterol	rs11610936	T	C	-0.0121	0.0025	1.34E-06
cholesterol	rs3897960	A	T	-0.0084	0.0017	1.29E-06
cholesterol	rs2407893	A	G	0.0079	0.0016	1.29E-06
cholesterol	rs646776	T	C	0.0085	0.0017	1.21E-06
cholesterol	rs3802195	T	G	0.0086	0.0018	1.13E-06
cholesterol	rs2213261	T	C	0.0122	0.0025	9.78E-07
cholesterol	rs7434032	A	T	-0.0124	0.0025	9.08E-07
cholesterol	rs7528419	A	G	0.0086	0.0017	8.42E-07
cholesterol	rs599839	A	G	0.0086	0.0017	7.28E-07
cholesterol	rs1077834	T	C	-0.0113	0.0023	6.87E-07
cholesterol	rs6438925	T	G	0.0127	0.0025	5.53E-07
cholesterol	rs6511720	T	G	-0.0136	0.0027	3.69E-07
cholesterol	rs13131908	A	G	0.0163	0.0032	3.61E-07
cholesterol	rs2213260	A	G	-0.0128	0.0025	3.30E-07
cholesterol	rs4941744	A	G	0.0087	0.0017	3.29E-07
cholesterol	rs4941743	T	C	0.0087	0.0017	3.28E-07
cholesterol	rs13109747	T	C	0.0165	0.0032	2.72E-07
cholesterol	rs12500437	T	G	0.0165	0.0032	2.65E-07
cholesterol	rs2130712	A	C	0.0165	0.0032	2.43E-07
cholesterol	rs10493549	A	G	-0.009	0.0017	2.27E-07
cholesterol	rs7629006	A	G	-0.0132	0.0025	1.65E-07
cholesterol	rs6438950	C	G	0.0131	0.0025	1.54E-07
cholesterol	rs12740374	T	G	-0.0092	0.0017	1.25E-07

cholesterol	rs629301	T	G	0.0092	0.0017	1.13E-07
cholesterol	rs17765253	A	G	0.0096	0.0018	8.27E-08
cholesterol	rs4970834	T	C	-0.0099	0.0018	2.28E-08
cholesterol	rs660240	T	C	-0.0099	0.0017	1.38E-08
cholesterol	rs602633	T	G	-0.0102	0.0017	5.02E-09
cholesterol	rs445925	A	G	-0.025	0.004	4.11E-10
choline	rs4646365	T	C	-0.0063	0.0014	9.74E-06
choline	rs8003323	C	G	0.031	0.007	9.49E-06
choline	rs4784175	A	T	-0.0091	0.002	8.64E-06
choline	rs7220518	T	C	0.0073	0.0016	8.42E-06
choline	rs2297615	A	T	0.007	0.0016	8.17E-06
choline	rs17070655	A	G	0.0205	0.0046	7.88E-06
choline	rs7582060	A	G	-0.0069	0.0015	7.72E-06
choline	rs9321388	A	G	-0.0072	0.0016	7.58E-06
choline	rs6472660	A	G	0.0073	0.0016	7.55E-06
choline	rs12105001	A	G	-0.0131	0.0029	7.55E-06
choline	rs1390586	T	G	-0.0073	0.0016	7.35E-06
choline	rs203953	T	C	-0.0074	0.0016	6.63E-06
choline	rs7163924	A	C	0.0075	0.0017	6.33E-06
choline	rs10194073	A	C	-0.007	0.0015	6.33E-06
choline	rs4538138	T	G	0.0071	0.0016	6.09E-06
choline	rs17430282	A	G	-0.0071	0.0016	6.06E-06
choline	rs4293599	C	G	0.0071	0.0016	5.93E-06
choline	rs6596269	T	C	0.0069	0.0015	5.80E-06
choline	rs11654842	A	G	-0.0065	0.0014	5.72E-06
choline	rs6596268	A	G	0.007	0.0015	5.51E-06
choline	rs1417497	C	G	-0.0106	0.0023	5.35E-06
choline	rs17497383	T	G	0.0157	0.0034	5.34E-06

choline	rs11933168	A	G	0.0083	0.0018	4.86E-06
choline	rs6890039	A	C	0.007	0.0015	4.76E-06
choline	rs17738826	T	C	0.007	0.0015	4.45E-06
choline	rs12031537	A	C	-0.0073	0.0016	4.44E-06
choline	rs17738773	T	C	0.007	0.0015	4.35E-06
choline	rs7687295	A	G	0.0211	0.0046	4.32E-06
choline	rs11242302	C	G	0.007	0.0015	4.28E-06
choline	rs11058334	A	G	-0.0217	0.0047	4.26E-06
choline	rs12514887	T	C	0.007	0.0015	4.26E-06
choline	rs12522445	T	C	-0.007	0.0015	4.26E-06
choline	rs17169210	C	G	-0.007	0.0015	4.21E-06
choline	rs748196	T	G	0.0065	0.0014	4.16E-06
choline	rs4776566	A	C	-0.0076	0.0017	4.14E-06
choline	rs995044	T	C	-0.0076	0.0016	4.05E-06
choline	rs12521010	C	G	-0.007	0.0015	3.92E-06
choline	rs11950083	A	C	0.007	0.0015	3.86E-06
choline	rs12326288	A	G	0.0076	0.0016	3.71E-06
choline	rs12153016	T	C	0.0071	0.0015	3.67E-06
choline	rs4244596	C	G	0.0066	0.0014	3.64E-06
choline	rs4646385	A	G	0.0067	0.0014	3.59E-06
choline	rs1603400	T	C	-0.0077	0.0016	3.51E-06
choline	rs16912132	T	C	0.0077	0.0016	3.49E-06
choline	rs7684	T	G	-0.0068	0.0015	3.46E-06
choline	rs4646390	A	G	0.0067	0.0014	3.31E-06
choline	rs12027341	A	G	-0.0076	0.0016	3.25E-06
choline	rs4242454	A	T	0.0077	0.0016	3.25E-06
choline	rs2824226	A	G	0.0074	0.0016	3.19E-06
choline	rs2304076	T	C	0.0072	0.0015	3.09E-06

choline	rs4646397	T	C	0.0068	0.0015	3.04E-06
choline	rs12513723	A	G	-0.0072	0.0015	3.04E-06
choline	rs747770	T	C	0.0067	0.0014	2.94E-06
choline	rs17687689	A	C	0.0072	0.0015	2.91E-06
choline	rs17642749	T	G	-0.0165	0.0035	2.68E-06
choline	rs4646356	A	G	-0.0067	0.0014	2.68E-06
choline	rs1531100	A	G	-0.0068	0.0014	2.44E-06
choline	rs12515184	A	G	0.0073	0.0015	2.36E-06
choline	rs11242301	A	G	-0.0073	0.0015	2.27E-06
choline	rs3786284	A	G	0.0077	0.0016	2.04E-06
choline	rs2080224	A	G	-0.0112	0.0024	1.97E-06
choline	rs714089	T	C	-0.0075	0.0016	1.56E-06
choline	rs11930490	A	G	-0.0076	0.0016	1.52E-06
choline	rs4613701	T	C	-0.0075	0.0015	1.37E-06
choline	rs4976511	T	C	-0.0075	0.0015	1.37E-06
choline	rs4246805	A	G	-0.0075	0.0015	1.37E-06
choline	rs11953030	T	G	-0.0075	0.0015	1.36E-06
choline	rs7215931	A	G	0.0079	0.0016	1.29E-06
choline	rs8082417	C	G	0.0071	0.0015	1.23E-06
choline	rs750546	T	C	-0.007	0.0014	1.21E-06
choline	rs4646391	C	G	0.007	0.0014	1.18E-06
choline	rs936108	T	C	-0.007	0.0014	1.15E-06
choline	rs4646392	A	C	-0.007	0.0014	1.11E-06
choline	rs9663814	A	G	0.0069	0.0014	1.10E-06
choline	rs12523450	A	G	0.0075	0.0015	1.08E-06
choline	rs4646389	A	C	-0.007	0.0014	1.06E-06
choline	rs4646387	T	G	-0.007	0.0014	1.05E-06
choline	rs11651620	A	G	-0.007	0.0014	1.05E-06

choline	rs6502603	T	G	-0.007	0.0014	9.31E-07
choline	rs12522259	A	G	-0.0077	0.0015	7.50E-07
choline	rs7163774	A	G	-0.0082	0.0016	6.43E-07
choline	rs1501424	A	G	-0.0082	0.0017	6.35E-07
choline	rs11072322	A	G	-0.0082	0.0016	6.16E-07
choline	rs7164371	T	C	0.0082	0.0016	6.16E-07
choline	rs7180648	T	C	0.0082	0.0016	5.98E-07
choline	rs7165100	T	C	0.0082	0.0016	5.54E-07
choline	rs8033100	T	C	-0.0083	0.0016	4.94E-07
choline	rs12513938	T	C	-0.0078	0.0015	4.89E-07
choline	rs12048208	A	G	-0.0088	0.0017	2.29E-07
choline	rs11207998	C	G	-0.0088	0.0017	2.15E-07
choline	rs12039115	T	C	-0.0088	0.0017	1.93E-07
choline	rs4487482	A	G	0.0081	0.0015	1.82E-07
choline	rs715	T	C	0.008	0.0015	9.11E-08
choline	rs11656215	T	C	-0.0079	0.0015	7.48E-08
citrate	rs13966	T	C	0.0082	0.0019	9.99E-06
citrate	rs1530219	A	G	-0.0078	0.0018	9.94E-06
citrate	rs1890954	T	G	-0.008	0.0018	9.82E-06
citrate	rs6024965	A	G	-0.0079	0.0018	9.76E-06
citrate	rs7873803	A	G	-0.0305	0.0069	9.71E-06
citrate	rs7770652	T	C	-0.0079	0.0018	9.68E-06
citrate	rs4416448	T	G	0.0082	0.0018	9.39E-06
citrate	rs4244314	T	C	0.0081	0.0018	9.33E-06
citrate	rs7710027	T	C	0.0081	0.0018	9.16E-06
citrate	rs7152965	A	G	0.0079	0.0018	9.00E-06
citrate	rs702697	A	G	-0.0082	0.0018	8.94E-06
citrate	rs3736304	T	C	-0.008	0.0018	8.76E-06

citrate	rs10512129	T	C	0.0081	0.0018	8.35E-06
citrate	rs11139583	A	T	0.0081	0.0018	8.28E-06
citrate	rs11139582	T	C	0.0081	0.0018	7.94E-06
citrate	rs17034684	T	G	0.0081	0.0018	7.90E-06
citrate	rs7919076	T	C	-0.0081	0.0018	7.79E-06
citrate	rs2535553	T	C	0.008	0.0018	7.58E-06
citrate	rs2239337	C	G	0.023	0.0051	7.51E-06
citrate	rs7465310	T	C	-0.008	0.0018	7.33E-06
citrate	rs6904427	T	C	0.0384	0.0086	7.19E-06
citrate	rs3749751	T	C	0.008	0.0018	7.14E-06
citrate	rs2281651	T	C	0.0081	0.0018	7.14E-06
citrate	rs16909202	A	G	-0.0311	0.0069	7.12E-06
citrate	rs7031483	T	C	-0.0311	0.0069	7.12E-06
citrate	rs16909214	A	G	0.0311	0.0069	7.07E-06
citrate	rs7870558	C	G	-0.0311	0.0069	7.07E-06
citrate	rs6940937	A	T	0.0384	0.0086	7.07E-06
citrate	rs10038879	T	C	0.008	0.0018	6.94E-06
citrate	rs4739607	A	G	0.0081	0.0018	6.87E-06
citrate	rs10479093	A	G	0.008	0.0018	6.83E-06
citrate	rs588973	A	G	0.009	0.002	6.80E-06
citrate	rs889128	T	G	0.0082	0.0018	6.75E-06
citrate	rs9372398	T	C	0.0081	0.0018	6.74E-06
citrate	rs11625985	A	T	-0.0081	0.0018	6.71E-06
citrate	rs8025554	C	G	-0.008	0.0018	6.64E-06
citrate	rs10514735	A	G	0.0346	0.0077	6.51E-06
citrate	rs1933013	A	G	0.0081	0.0018	6.49E-06
citrate	rs3915801	A	G	-0.0081	0.0018	6.31E-06
citrate	rs1122171	T	C	0.008	0.0018	6.26E-06

citrate	rs2534835	T	G	-0.0083	0.0018	6.23E-06
citrate	rs12121428	T	C	-0.0197	0.0044	6.09E-06
citrate	rs3193970	T	C	0.0081	0.0018	6.07E-06
citrate	rs4779800	A	G	-0.0122	0.0027	6.06E-06
citrate	rs12803308	A	T	-0.0081	0.0018	5.97E-06
citrate	rs11905229	C	G	0.0131	0.0029	5.85E-06
citrate	rs940697	A	G	0.0082	0.0018	5.71E-06
citrate	rs9389071	A	G	-0.012	0.0026	5.64E-06
citrate	rs9327706	A	C	0.0081	0.0018	5.61E-06
citrate	rs9314709	T	C	-0.0082	0.0018	5.60E-06
citrate	rs10043015	T	C	0.0082	0.0018	5.58E-06
citrate	rs10120888	T	C	0.0081	0.0018	5.58E-06
citrate	rs10992730	A	C	0.0315	0.0069	5.44E-06
citrate	rs7867699	A	T	0.0315	0.0069	5.41E-06
citrate	rs7868092	A	T	-0.0315	0.0069	5.41E-06
citrate	rs7668124	A	G	-0.0081	0.0018	5.38E-06
citrate	rs1380634	A	G	-0.0083	0.0018	5.17E-06
citrate	rs13151462	A	T	0.0081	0.0018	5.06E-06
citrate	rs7584253	A	C	0.0083	0.0018	5.04E-06
citrate	rs4235093	A	G	-0.0083	0.0018	5.04E-06
citrate	rs4896864	T	G	0.039	0.0085	5.04E-06
citrate	rs1956670	T	C	-0.0082	0.0018	4.92E-06
citrate	rs7115141	A	C	0.0083	0.0018	4.73E-06
citrate	rs11120725	A	G	-0.0181	0.0039	4.61E-06
citrate	rs1125471	A	C	-0.0085	0.0018	4.47E-06
citrate	rs4507850	A	T	0.0082	0.0018	4.46E-06
citrate	rs2691389	T	C	-0.0082	0.0018	4.44E-06
citrate	rs7741820	T	G	0.0392	0.0085	4.31E-06

citrate	rs2143327	T	C	0.0392	0.0085	4.28E-06
citrate	rs1330823	T	C	0.0083	0.0018	4.24E-06
citrate	rs1411664	A	G	0.0083	0.0018	4.16E-06
citrate	rs8017368	A	C	-0.0083	0.0018	3.85E-06
citrate	rs4968821	T	G	-0.0162	0.0035	3.79E-06
citrate	rs2535493	A	G	-0.0083	0.0018	3.41E-06
citrate	rs7623540	A	C	-0.0085	0.0018	3.35E-06
citrate	rs4589188	A	G	0.0122	0.0026	3.34E-06
citrate	rs712963	A	G	0.0083	0.0018	3.20E-06
citrate	rs2535496	A	G	-0.0083	0.0018	3.05E-06
citrate	rs1330828	A	G	-0.0086	0.0018	3.04E-06
citrate	rs17696456	T	G	0.0084	0.0018	3.01E-06
citrate	rs1493952	T	C	0.0084	0.0018	2.99E-06
citrate	rs1524678	T	G	0.0084	0.0018	2.94E-06
citrate	rs1404373	T	C	-0.0084	0.0018	2.92E-06
citrate	rs12212365	A	G	0.0083	0.0018	2.90E-06
citrate	rs4714748	A	C	-0.0083	0.0018	2.90E-06
citrate	rs7020585	T	G	-0.0324	0.0069	2.85E-06
citrate	rs6077792	T	G	-0.0085	0.0018	2.82E-06
citrate	rs7756283	T	G	-0.0083	0.0018	2.79E-06
citrate	rs1493954	A	G	-0.0084	0.0018	2.72E-06
citrate	rs16909145	C	G	-0.0324	0.0069	2.68E-06
citrate	rs6479486	A	G	-0.0324	0.0069	2.67E-06
citrate	rs16909167	T	C	-0.0324	0.0069	2.67E-06
citrate	rs9394985	C	G	0.0083	0.0018	2.62E-06
citrate	rs9357430	T	C	0.0083	0.0018	2.59E-06
citrate	rs1412523	T	G	-0.0084	0.0018	2.59E-06
citrate	rs4714741	T	C	0.0091	0.0019	2.52E-06

citrate	rs10992722	A	C	0.0326	0.0069	2.44E-06
citrate	rs1321097	A	G	-0.0084	0.0018	2.43E-06
citrate	rs4711767	T	C	-0.0084	0.0018	2.34E-06
citrate	rs1935611	T	C	0.0084	0.0018	2.32E-06
citrate	rs626494	T	C	-0.0085	0.0018	2.32E-06
citrate	rs5746671	A	G	0.0084	0.0018	2.27E-06
citrate	rs6559672	T	C	0.0085	0.0018	2.14E-06
citrate	rs6122890	T	C	-0.0085	0.0018	2.11E-06
citrate	rs12625828	T	G	0.0086	0.0018	2.06E-06
citrate	rs4968945	A	G	-0.0169	0.0035	1.96E-06
citrate	rs877111	A	G	0.0085	0.0018	1.87E-06
citrate	rs712964	T	C	0.0085	0.0018	1.86E-06
citrate	rs10867869	A	G	0.0086	0.0018	1.70E-06
citrate	rs2236299	A	G	0.0087	0.0018	1.69E-06
citrate	rs7875440	A	G	-0.0086	0.0018	1.69E-06
citrate	rs10217175	A	G	0.0086	0.0018	1.68E-06
citrate	rs951577	A	G	-0.0086	0.0018	1.67E-06
citrate	rs13130021	T	C	-0.0089	0.0018	1.41E-06
citrate	rs9646392	T	C	-0.017	0.0035	1.38E-06
citrate	rs2370136	T	C	-0.0086	0.0018	1.25E-06
citrate	rs4968822	T	C	0.017	0.0035	1.24E-06
citrate	rs7944791	C	G	-0.0088	0.0018	1.23E-06
citrate	rs6678076	A	G	-0.0252	0.0052	1.08E-06
citrate	rs1206544	T	C	-0.0087	0.0018	9.32E-07
citrate	rs7851531	A	G	-0.009	0.0018	6.47E-07
citrate	rs1389548	T	C	0.009	0.0018	6.12E-07
citrate	rs10787308	A	G	-0.009	0.0018	6.04E-07
citrate	rs9381289	C	G	0.01	0.002	5.73E-07

citrate	rs7105815	A	G	0.0091	0.0018	4.93E-07
citrate	rs4999864	C	G	0.0179	0.0035	4.77E-07
citrate	rs361787	T	C	-0.0091	0.0018	3.78E-07
citrate	rs218678	A	G	0.0183	0.0036	3.40E-07
citrate	rs1061325	T	C	0.0091	0.0018	3.27E-07
citrate	rs218682	T	C	0.0093	0.0018	2.98E-07
citrate	rs4714755	A	G	-0.0092	0.0018	2.98E-07
citrate	rs9462964	T	C	-0.0092	0.0018	2.93E-07
citrate	rs6883	A	G	0.0091	0.0018	2.76E-07
citrate	rs10125742	A	G	0.0092	0.0018	2.52E-07
citrate	rs10780550	T	C	0.0093	0.0018	2.45E-07
citrate	rs2040771	T	C	-0.0092	0.0018	2.35E-07
citrate	rs2552505	T	C	-0.0093	0.0018	2.24E-07
citrate	rs910616	T	C	-0.0093	0.0018	1.97E-07
citrate	rs17804647	A	G	-0.0178	0.0034	1.93E-07
citrate	rs12103615	A	G	-0.0177	0.0034	1.64E-07
citrate	rs698422	A	T	0.0096	0.0018	7.72E-08
citrate	rs12103645	T	C	-0.0185	0.0034	6.60E-08
citrate	rs11078650	T	C	0.0183	0.0034	5.78E-08
citrate	rs7224971	A	T	0.0184	0.0034	5.15E-08
citrate	rs2854643	T	C	0.0098	0.0018	4.59E-08
citrate	rs1780643	T	C	0.0098	0.0018	4.59E-08
citrate	rs762527	A	G	0.0098	0.0018	4.43E-08
citrate	rs756651	T	C	0.0098	0.0018	4.43E-08
citrate	rs762523	A	G	0.0098	0.0018	4.42E-08
citrate	rs809901	T	C	-0.0097	0.0018	4.28E-08
citrate	rs10780549	T	C	-0.0098	0.0018	4.20E-08
citrate	rs1018764	T	C	0.0098	0.0018	4.17E-08

citrate	rs762529	C	G	0.0098	0.0018	4.17E-08
citrate	rs807667	A	G	-0.0098	0.0018	4.12E-08
citrate	rs807431	A	G	-0.0098	0.0018	4.06E-08
citrate	rs9605972	T	C	-0.0098	0.0018	3.77E-08
citrate	rs1933019	A	G	-0.0099	0.0018	3.63E-08
citrate	rs17804635	T	C	-0.0187	0.0034	3.62E-08
citrate	rs1771540	A	T	-0.0099	0.0018	3.47E-08
citrate	rs2800974	A	G	-0.0099	0.0018	3.45E-08
citrate	rs2152838	A	G	-0.01	0.0018	2.81E-08
citrate	rs868395	T	G	0.0101	0.0018	2.03E-08
citrate	rs6507399	A	G	-0.0101	0.0018	1.70E-08
citrate	rs906749	A	G	0.0105	0.0018	1.08E-08
citrate	rs807669	T	C	0.0104	0.0018	6.22E-09
citrate	rs1509123	T	C	-0.0248	0.0043	5.20E-09
citrate	rs835153	A	G	0.0109	0.0018	8.02E-10
citrate	rs835155	A	G	-0.0109	0.0018	7.54E-10
citrate	rs807670	A	C	0.011	0.0018	6.84E-10
citrate	rs218698	T	C	0.0252	0.0041	5.08E-10
citrate	rs218676	A	G	0.0166	0.0027	4.84E-10
citrate	rs218695	A	C	0.0254	0.004	3.46E-10
citrate	rs3006069	A	G	-0.0112	0.0018	2.49E-10
citrate	rs835154	A	G	-0.0114	0.0018	1.15E-10
citrate	rs184295	A	G	0.0249	0.0035	1.04E-12
citrate	rs218697	T	C	0.0255	0.0035	1.65E-13
citrate	rs170149	A	G	0.0256	0.0035	1.42E-13
creatine	rs2244590	A	G	0.0212	0.0048	8.95E-06
creatine	rs8017995	A	C	0.0924	0.0207	8.43E-06
creatine	rs3817670	T	C	-0.0743	0.0167	8.42E-06

creatine	rs10932362	A	G	-0.0206	0.0046	7.83E-06
creatine	rs4906527	C	G	-0.0292	0.0065	7.49E-06
creatine	rs11637838	T	C	0.0168	0.0037	7.30E-06
creatine	rs3111102	A	G	-0.048	0.0107	7.00E-06
creatine	rs11677843	T	C	-0.0208	0.0046	6.86E-06
creatine	rs10932349	C	G	0.03	0.0066	6.51E-06
creatine	rs11903219	A	G	-0.0209	0.0046	6.43E-06
creatine	rs4130275	T	G	0.0214	0.0047	5.40E-06
creatine	rs6493144	C	G	-0.017	0.0037	5.35E-06
creatine	rs1719250	A	G	-0.0171	0.0038	5.14E-06
creatine	rs7167146	A	G	-0.0175	0.0038	5.11E-06
creatine	rs12820743	A	G	-0.0168	0.0037	5.06E-06
creatine	rs2244858	A	G	0.0218	0.0048	4.58E-06
creatine	rs11631021	A	G	0.0171	0.0037	4.55E-06
creatine	rs7319920	A	G	-0.0219	0.0048	4.39E-06
creatine	rs6435586	A	G	0.0175	0.0038	4.36E-06
creatine	rs12469291	C	G	0.0174	0.0038	4.26E-06
creatine	rs1719236	A	C	-0.0173	0.0038	4.12E-06
creatine	rs12997044	T	C	0.0175	0.0038	4.05E-06
creatine	rs11636114	C	G	0.0172	0.0037	4.02E-06
creatine	rs11639420	T	G	0.0174	0.0038	3.33E-06
creatine	rs1230164	C	G	0.0176	0.0038	3.08E-06
creatine	rs1145080	T	C	0.0174	0.0037	2.44E-06
creatine	rs17734739	T	C	0.0218	0.0046	2.35E-06
creatine	rs2461700	T	C	-0.0176	0.0037	2.05E-06
creatine	rs2453533	A	C	0.0176	0.0037	2.05E-06
creatine	rs2467862	T	G	-0.0176	0.0037	2.01E-06
creatine	rs9920634	T	G	-0.0178	0.0037	1.96E-06

creatine	rs1153862	A	G	-0.0176	0.0037	1.96E-06
creatine	rs2899375	A	G	-0.0178	0.0037	1.91E-06
creatine	rs10900120	A	G	-0.0383	0.008	1.74E-06
creatine	rs11694063	T	C	-0.0224	0.0046	1.37E-06
creatine	rs16824978	T	C	-0.0191	0.0039	8.51E-07
creatine	rs1153860	T	C	0.0183	0.0037	7.81E-07
creatine	rs1558935	T	C	0.0188	0.0038	7.16E-07
creatine	rs1145093	A	C	0.0183	0.0037	7.06E-07
creatine	rs1049518	A	G	0.0184	0.0037	6.85E-07
creatine	rs1145086	A	G	-0.0184	0.0037	6.74E-07
creatine	rs1346267	T	C	-0.0185	0.0037	5.82E-07
creatine	rs2486274	T	G	0.0185	0.0037	5.63E-07
creatine	rs1145076	A	C	0.0185	0.0037	5.54E-07
creatine	rs986293	A	G	0.019	0.0038	5.30E-07
creatine	rs1547487	A	G	-0.0187	0.0037	4.96E-07
creatine	rs1426932	T	C	-0.0186	0.0037	4.55E-07
creatine	rs13000755	T	G	-0.0191	0.0038	4.36E-07
creatine	rs7424145	A	G	0.0401	0.0079	4.11E-07
creatine	rs1145077	T	G	0.0187	0.0037	3.99E-07
creatine	rs12478788	A	G	0.0193	0.0038	3.07E-07
creatine	rs7586579	A	T	0.0195	0.0038	2.71E-07
creatine	rs13006513	A	G	0.0195	0.0038	2.55E-07
creatine	rs2371028	A	C	-0.0195	0.0038	2.52E-07
creatine	rs13427306	T	C	0.0197	0.0038	1.98E-07
creatine	rs13394054	A	G	-0.0194	0.0037	1.39E-07
creatine	rs4142151	T	C	0.02	0.0038	1.21E-07
creatine	rs17734637	C	G	0.0244	0.0046	1.19E-07
creatine	rs12623361	T	C	-0.0202	0.0038	1.12E-07

creatine	rs10490328	A	G	-0.0202	0.0038	1.09E-07
creatine	rs17776067	T	C	0.0329	0.0062	1.08E-07
creatine	rs13422990	A	G	-0.0202	0.0038	8.85E-08
creatine	rs4142153	C	G	0.0203	0.0038	8.57E-08
creatine	rs4142152	T	C	-0.0204	0.0038	8.31E-08
creatine	rs6726552	A	G	0.0199	0.0037	7.73E-08
creatine	rs2371019	T	G	0.0206	0.0038	6.15E-08
creatine	rs13404853	A	C	-0.0207	0.0038	5.67E-08
creatine	rs12470865	A	C	-0.0206	0.0038	5.47E-08
creatine	rs13402741	C	G	0.0207	0.0038	5.17E-08
creatine	rs2371022	A	G	-0.0207	0.0038	5.16E-08
creatine	rs2371023	A	G	-0.0207	0.0038	5.14E-08
creatine	rs2371025	T	C	0.0207	0.0038	5.13E-08
creatine	rs13016820	A	G	-0.0207	0.0038	5.12E-08
creatine	rs16844814	T	C	0.0207	0.0038	5.10E-08
creatine	rs13415037	T	G	0.0207	0.0038	5.08E-08
creatine	rs10445807	T	C	0.0207	0.0038	5.07E-08
creatine	rs4467202	A	G	0.0207	0.0038	5.06E-08
creatine	rs9288420	A	G	-0.0208	0.0038	4.65E-08
creatine	rs2371030	A	G	0.0206	0.0038	3.85E-08
creatine	rs6759308	T	G	0.0203	0.0037	3.64E-08
creatine	rs2887916	T	C	-0.0209	0.0038	3.14E-08
creatine	rs4673545	A	C	-0.0213	0.0038	1.72E-08
creatine	rs10167685	A	T	0.021	0.0037	1.16E-08
creatine	rs4673559	A	G	-0.0258	0.0045	9.63E-09
creatine	rs12998879	A	G	0.0212	0.0037	9.17E-09
creatine	rs4517917	T	C	0.0213	0.0037	8.15E-09
creatine	rs10164524	A	G	0.0217	0.0038	8.02E-09

creatine	rs957749	A	G	0.022	0.0038	8.00E-09
creatine	rs10932350	A	G	0.0213	0.0037	7.91E-09
creatine	rs12473077	C	G	-0.0213	0.0037	7.77E-09
creatine	rs2193616	A	C	0.0214	0.0037	7.15E-09
creatine	rs10211079	C	G	-0.0214	0.0037	7.14E-09
creatine	rs1024896	A	G	0.0223	0.0037	2.53E-09
creatine	rs11687290	A	G	0.0226	0.0038	2.39E-09
creatine	rs4673548	T	C	-0.0227	0.0037	7.80E-10
creatine	rs2193618	T	C	-0.0231	0.0038	7.48E-10
creatine	rs2216403	T	G	0.0228	0.0037	7.25E-10
creatine	rs2111713	A	G	0.0228	0.0037	7.24E-10
creatine	rs10184528	A	T	-0.0228	0.0037	7.22E-10
creatine	rs4672590	C	G	0.0228	0.0037	7.22E-10
creatine	rs10211086	C	G	-0.0228	0.0037	7.22E-10
creatine	rs2887915	T	C	-0.0231	0.0037	6.46E-10
creatine	rs1024898	A	G	-0.024	0.0037	1.47E-10
creatine	rs2371034	A	G	0.024	0.0037	1.44E-10
creatine	rs13386028	A	C	-0.0238	0.0037	1.27E-10
creatine	rs12998006	T	C	-0.0247	0.0038	1.14E-10
creatine	rs2160847	T	C	-0.03	0.0046	1.02E-10
creatine	rs10490320	T	C	0.0241	0.0037	1.00E-10
creatine	rs4672596	T	C	-0.0238	0.0037	9.11E-11
creatine	rs2371027	T	C	-0.0243	0.0037	8.08E-11
creatine	rs13000743	A	G	0.0243	0.0037	8.02E-11
creatine	rs986294	A	G	0.0255	0.0038	3.01E-11
creatine	rs4673558	T	C	0.0262	0.0038	5.72E-12
creatine	rs2287413	C	G	-0.0334	0.0048	2.45E-12
creatine	rs10490327	A	G	0.0337	0.0048	1.65E-12

creatine	rs17775871	A	G	-0.0338	0.0048	1.51E-12
creatine	rs11887861	A	C	-0.0264	0.0037	1.29E-12
creatine	rs6711167	A	T	0.034	0.0048	1.06E-12
creatine	rs4560045	A	T	0.0322	0.0045	1.02E-12
creatine	rs2371015	T	C	-0.0265	0.0037	8.55E-13
creatine	rs12613336	T	C	-0.0329	0.0045	3.49E-13
creatine	rs10932355	A	G	-0.0335	0.0046	2.14E-13
creatine	rs10172053	T	G	-0.0366	0.0046	1.74E-15
creatine	rs7421152	A	T	-0.0367	0.0046	1.46E-15
creatine	rs10206976	T	G	0.0372	0.0046	5.84E-16
creatine	rs10490325	C	G	-0.0373	0.0046	4.99E-16
creatine	rs4513233	A	G	0.0374	0.0046	4.45E-16
creatine	rs16844874	T	C	-0.0374	0.0046	4.38E-16
creatine	rs2216405	A	G	-0.0374	0.0046	3.55E-16
creatine	rs2193617	A	G	0.0369	0.0045	3.35E-16
creatine	rs16844839	T	C	0.038	0.0046	2.14E-16
creatine	rs16844862	T	C	0.0375	0.0046	1.90E-16
creatine	rs10490323	A	G	0.0375	0.0046	1.90E-16
creatine	rs4673546	T	C	0.0375	0.0045	1.06E-16
creatine	rs16844825	A	G	-0.0376	0.0045	1.02E-16
creatine	rs10490322	T	C	0.0382	0.0046	5.48E-17
creatine	rs3815630	T	C	-0.0382	0.0046	5.48E-17
creatine	rs10490324	T	C	0.0389	0.0046	1.56E-17
creatine	rs11680929	A	G	0.0389	0.0046	1.56E-17
creatine	rs7684	T	G	0.0339	0.0037	1.53E-19
creatine	rs4673553	T	G	-0.0347	0.0037	4.40E-21
creatine	rs715	T	C	-0.0451	0.0044	9.63E-25
creatinine	rs1955135	A	C	0.008	0.0018	9.99E-06

creatinine	rs4709432	A	G	0.0079	0.0018	9.62E-06
creatinine	rs2007258	C	G	-0.0082	0.0019	9.54E-06
creatinine	rs11632813	A	C	0.0042	0.0009	9.28E-06
creatinine	rs13031396	T	G	-0.0076	0.0017	9.17E-06
creatinine	rs10159736	A	G	0.0118	0.0027	9.07E-06
creatinine	rs11694230	T	C	-0.0075	0.0017	9.00E-06
creatinine	rs7592248	A	G	-0.0082	0.0019	8.76E-06
creatinine	rs2048277	A	G	0.0083	0.0019	8.75E-06
creatinine	rs7592464	A	G	-0.0082	0.0019	8.74E-06
creatinine	rs4430707	T	C	-0.0042	0.0009	8.72E-06
creatinine	rs11855087	A	G	-0.0042	0.0009	8.72E-06
creatinine	rs6495181	T	C	0.0042	0.0009	8.69E-06
creatinine	rs12324230	T	C	0.0042	0.0009	8.68E-06
creatinine	rs1374355	A	T	0.0083	0.0019	8.59E-06
creatinine	rs428046	A	G	0.0099	0.0022	8.52E-06
creatinine	rs10998071	A	C	0.0155	0.0035	8.07E-06
creatinine	rs9477021	C	G	-0.0236	0.0053	7.73E-06
creatinine	rs10998070	T	G	0.0156	0.0035	7.26E-06
creatinine	rs10998067	C	G	-0.0156	0.0035	6.81E-06
creatinine	rs6502247	A	G	-0.009	0.002	6.80E-06
creatinine	rs2521310	T	C	0.009	0.002	6.80E-06
creatinine	rs1990178	T	C	-0.0164	0.0036	6.27E-06
creatinine	rs12359690	A	G	0.0157	0.0035	6.27E-06
creatinine	rs1996616	A	C	0.0043	0.0009	5.97E-06
creatinine	rs17495916	T	C	0.0043	0.0009	5.28E-06
creatinine	rs11638382	T	C	-0.0171	0.0038	5.06E-06
creatinine	rs17533525	T	C	0.0082	0.0018	5.04E-06
creatinine	rs9312777	T	C	0.0043	0.0009	4.68E-06

creatinine	rs9456538	A	G	-0.0082	0.0018	4.20E-06
creatinine	rs6946475	A	G	0.0044	0.0009	3.98E-06
creatinine	rs10202838	C	G	0.0137	0.0029	3.32E-06
creatinine	rs10426415	A	G	-0.0086	0.0018	3.11E-06
creatinine	rs6663614	A	C	-0.0104	0.0022	3.06E-06
creatinine	rs7100492	T	C	-0.0105	0.0022	2.67E-06
creatinine	rs10998048	T	C	0.0161	0.0034	2.40E-06
creatinine	rs2057426	T	C	0.0086	0.0018	2.33E-06
creatinine	rs617800	C	G	0.0086	0.0018	2.33E-06
creatinine	rs473059	A	C	0.0086	0.0018	2.33E-06
creatinine	rs4460629	T	C	-0.0045	0.001	2.21E-06
creatinine	rs482082	T	C	0.0045	0.0009	2.14E-06
creatinine	rs1498350	A	C	0.0045	0.001	1.88E-06
creatinine	rs10519445	A	G	-0.0045	0.0009	1.85E-06
creatinine	rs10864338	C	G	0.0297	0.0062	1.63E-06
creatinine	rs11054328	T	C	0.0088	0.0018	1.46E-06
creatinine	rs394282	A	T	-0.0163	0.0033	1.02E-06
creatinine	rs12801550	T	C	0.0088	0.0018	9.64E-07
creatinine	rs6664513	T	C	0.009	0.0018	9.25E-07
creatinine	rs1159909	T	C	-0.009	0.0018	9.23E-07
creatinine	rs12037224	A	C	-0.0091	0.0018	7.57E-07
creatinine	rs10823168	T	C	0.0135	0.0027	6.23E-07
creatinine	rs12175103	A	C	0.0048	0.0009	4.86E-07
creatinine	rs1116866	T	C	0.0094	0.0018	2.87E-07
creatinine	rs2194482	A	T	0.005	0.0009	1.39E-07
creatinine	rs10487598	T	C	0.005	0.0009	1.35E-07
creatinine	rs6949205	A	G	0.005	0.0009	1.35E-07
creatinine	rs6973260	T	C	-0.005	0.0009	1.35E-07

creatinine	rs6953352	C	G	-0.005	0.0009	1.35E-07
creatinine	rs6948890	A	G	0.005	0.0009	1.35E-07
creatinine	rs2194483	A	G	0.005	0.0009	1.35E-07
creatinine	rs2216839	A	G	0.005	0.0009	1.35E-07
creatinine	rs2289804	A	G	-0.0143	0.0027	1.25E-07
creatinine	rs2042499	A	C	0.0052	0.0009	4.88E-08
cysteine	rs13378814	T	C	0.0381	0.0086	9.68E-06
cysteine	rs11720555	A	G	0.0149	0.0034	9.67E-06
cysteine	rs6920798	A	G	-0.0117	0.0026	9.51E-06
cysteine	rs1389898	A	G	-0.015	0.0034	9.43E-06
cysteine	rs1470963	A	G	0.0208	0.0047	8.97E-06
cysteine	rs10976932	A	G	-0.0117	0.0026	8.61E-06
cysteine	rs6003971	T	G	0.0231	0.0052	8.10E-06
cysteine	rs7932390	A	G	-0.0463	0.0104	8.03E-06
cysteine	rs9696891	T	C	0.0936	0.0209	7.65E-06
cysteine	rs9607409	A	G	0.0156	0.0035	7.25E-06
cysteine	rs10101186	A	C	-0.018	0.004	6.80E-06
cysteine	rs10926961	A	G	-0.0117	0.0026	6.79E-06
cysteine	rs7932167	T	G	0.0119	0.0026	6.66E-06
cysteine	rs9317482	T	C	-0.0243	0.0054	6.16E-06
cysteine	rs13179336	A	T	0.0154	0.0034	4.85E-06
cysteine	rs13378579	A	C	-0.0711	0.0156	4.81E-06
cysteine	rs9572772	T	G	-0.0902	0.0197	4.65E-06
cysteine	rs2712113	A	T	0.0256	0.0056	4.42E-06
cysteine	rs1948930	A	G	0.012	0.0026	4.21E-06
cysteine	rs12052126	T	C	0.0389	0.0085	4.18E-06
cysteine	rs7115009	T	C	0.0477	0.0103	3.99E-06
cysteine	rs4602889	A	G	0.016	0.0035	3.57E-06

cysteine	rs7127674	A	G	-0.0482	0.0104	3.33E-06
cysteine	rs17026785	T	C	0.0158	0.0034	3.28E-06
cysteine	rs13292337	T	C	0.1043	0.0223	2.92E-06
cysteine	rs4395681	T	C	0.0282	0.006	2.91E-06
cysteine	rs10926975	T	C	-0.0125	0.0027	2.66E-06
cysteine	rs2314026	A	G	0.0283	0.006	2.53E-06
cysteine	rs937288	T	C	0.0161	0.0034	2.31E-06
cysteine	rs2465251	A	C	0.0274	0.0058	2.22E-06
cysteine	rs2710833	T	C	-0.0132	0.0027	1.20E-06
cysteine	rs13293620	T	C	0.1054	0.0216	1.07E-06
cysteine	rs11713161	A	G	-0.017	0.0034	5.63E-07
deoxycholate	rs873086	T	G	0.0689	0.0156	9.86E-06
deoxycholate	rs873085	T	C	-0.0689	0.0156	9.85E-06
deoxycholate	rs7791127	A	G	-0.0325	0.0073	9.52E-06
deoxycholate	rs9556362	T	C	-0.0825	0.0186	9.46E-06
deoxycholate	rs13227473	T	C	0.0456	0.0103	9.37E-06
deoxycholate	rs12405017	T	C	-0.1891	0.0426	9.18E-06
deoxycholate	rs2140798	T	C	-0.0519	0.0117	8.80E-06
deoxycholate	rs7262824	T	C	0.0357	0.008	8.70E-06
deoxycholate	rs4244808	T	G	0.0305	0.0068	8.30E-06
deoxycholate	rs2002212	A	G	-0.0691	0.0155	7.82E-06
deoxycholate	rs9851393	A	G	0.0297	0.0066	7.38E-06
deoxycholate	rs17131011	A	G	-0.0781	0.0174	6.88E-06
deoxycholate	rs4573256	A	G	0.0297	0.0066	6.54E-06
deoxycholate	rs2162459	A	G	0.0296	0.0065	6.42E-06
deoxycholate	rs7427777	A	C	0.1291	0.0286	6.36E-06
deoxycholate	rs545861	T	C	0.0399	0.0088	5.92E-06
deoxycholate	rs3752241	C	G	0.0574	0.0126	5.52E-06

deoxycholate	rs17641342	C	G	0.0725	0.0159	5.26E-06
deoxycholate	rs3759711	A	G	0.0306	0.0067	5.13E-06
deoxycholate	rs3903445	T	G	-0.0301	0.0066	5.09E-06
deoxycholate	rs13143708	T	C	0.0329	0.0072	5.07E-06
deoxycholate	rs7269193	A	G	-0.0528	0.0116	5.03E-06
deoxycholate	rs10236740	C	G	-0.0332	0.0073	4.97E-06
deoxycholate	rs10005768	A	G	-0.033	0.0072	4.78E-06
deoxycholate	rs4579412	A	C	-0.0414	0.0091	4.77E-06
deoxycholate	rs1125226	A	C	0.0302	0.0066	4.56E-06
deoxycholate	rs1023649	A	G	0.0302	0.0066	4.56E-06
deoxycholate	rs7004257	A	G	0.0302	0.0066	4.56E-06
deoxycholate	rs12542233	T	C	0.0301	0.0065	4.28E-06
deoxycholate	rs102940	A	G	0.0406	0.0088	4.02E-06
deoxycholate	rs12700588	A	G	0.0338	0.0073	3.49E-06
deoxycholate	rs1030431	A	G	-0.0336	0.0072	3.33E-06
deoxycholate	rs3824260	A	G	-0.0305	0.0066	3.33E-06
deoxycholate	rs3808607	T	G	0.0307	0.0066	2.97E-06
deoxycholate	rs2391088	A	G	-0.0341	0.0073	2.92E-06
deoxycholate	rs696155	A	G	-0.0412	0.0088	2.92E-06
deoxycholate	rs10134653	T	C	0.0361	0.0077	2.53E-06
deoxycholate	rs12433095	T	C	0.0316	0.0067	2.45E-06
deoxycholate	rs3742679	A	T	0.0342	0.0072	2.19E-06
deoxycholate	rs17175231	A	G	0.0593	0.0125	1.99E-06
deoxycholate	rs4904524	T	C	0.0319	0.0067	1.93E-06
deoxycholate	rs11159894	T	C	0.032	0.0067	1.77E-06
deoxycholate	rs13251096	A	G	-0.0316	0.0066	1.67E-06
deoxycholate	rs7833904	A	T	-0.0316	0.0066	1.65E-06
deoxycholate	rs6471717	A	G	0.0351	0.0072	1.15E-06

deoxycholate	rs2081687	T	C	-0.0351	0.0072	1.10E-06
deoxycholate	rs983812	T	C	0.0352	0.0072	1.07E-06
deoxycholate	rs4738684	A	G	-0.0355	0.0073	1.04E-06
deoxycholate	rs10107182	T	C	0.0353	0.0072	1.02E-06
deoxycholate	rs11783515	A	G	-0.0364	0.0074	7.71E-07
deoxycholate	rs7826120	T	C	-0.0333	0.0067	6.27E-07
deoxycholate	rs4738679	A	G	0.034	0.0067	3.66E-07
deoxycholate	rs1993453	A	G	-0.0341	0.0067	3.06E-07
deoxycholate	rs13277801	T	C	0.0343	0.0067	2.64E-07
deoxycholate	rs6982486	A	G	0.0343	0.0067	2.59E-07
deoxycholate	rs11996829	T	G	-0.0344	0.0067	2.51E-07
deoxycholate	rs6985620	T	C	-0.0345	0.0067	2.46E-07
deoxycholate	rs13263105	C	G	-0.0346	0.0067	2.12E-07
deoxycholate	rs2326077	T	C	0.0347	0.0067	1.89E-07
deoxycholate	rs10504255	A	G	0.0361	0.0067	6.23E-08
deoxycholate	rs8192870	T	G	-0.0365	0.0067	3.99E-08
dimethylarginine	rs248928	C	G	-0.0075	0.0017	9.78E-06
dimethylarginine	rs8042641	T	C	-0.0112	0.0025	9.75E-06
dimethylarginine	rs11123013	T	G	-0.008	0.0018	9.28E-06
dimethylarginine	rs12563233	T	G	-0.0079	0.0018	9.20E-06
dimethylarginine	rs1756740	A	G	0.0077	0.0017	9.16E-06
dimethylarginine	rs8107012	T	G	-0.008	0.0018	9.12E-06
dimethylarginine	rs6686149	T	C	0.0079	0.0018	8.88E-06
dimethylarginine	rs6675940	T	C	0.0079	0.0018	8.84E-06
dimethylarginine	rs11809005	T	C	-0.0079	0.0018	8.84E-06
dimethylarginine	rs6580088	T	C	-0.0079	0.0018	8.80E-06
dimethylarginine	rs11745804	T	G	-0.0079	0.0018	8.79E-06
dimethylarginine	rs4654403	T	C	0.0168	0.0038	8.51E-06

dimethylarginine	rs17820709	T	C	-0.0079	0.0018	7.80E-06
dimethylarginine	rs10750722	T	C	-0.012	0.0027	7.74E-06
dimethylarginine	rs6774085	A	C	-0.008	0.0018	7.70E-06
dimethylarginine	rs509532	T	C	-0.0078	0.0017	7.54E-06
dimethylarginine	rs2062632	T	C	0.008	0.0018	7.49E-06
dimethylarginine	rs598610	T	C	-0.0078	0.0017	7.48E-06
dimethylarginine	rs13415885	A	G	0.0081	0.0018	7.43E-06
dimethylarginine	rs16907462	T	C	0.0081	0.0018	7.23E-06
dimethylarginine	rs7124925	A	G	-0.0081	0.0018	7.21E-06
dimethylarginine	rs7129047	A	C	-0.0081	0.0018	7.21E-06
dimethylarginine	rs643853	A	G	-0.0084	0.0019	7.11E-06
dimethylarginine	rs1921822	T	C	0.0081	0.0018	6.51E-06
dimethylarginine	rs13022471	A	G	0.0081	0.0018	6.50E-06
dimethylarginine	rs6886404	A	C	0.008	0.0018	5.24E-06
dimethylarginine	rs6774259	A	G	-0.0082	0.0018	5.13E-06
dimethylarginine	rs6688105	T	C	-0.0079	0.0017	4.86E-06
dimethylarginine	rs1850396	A	T	-0.008	0.0018	4.67E-06
dimethylarginine	rs17009269	C	G	0.0355	0.0078	4.63E-06
dimethylarginine	rs11638718	A	G	0.0081	0.0018	4.62E-06
dimethylarginine	rs17009264	T	C	-0.0355	0.0077	4.51E-06
dimethylarginine	rs17009270	T	C	-0.0357	0.0078	4.50E-06
dimethylarginine	rs10502051	A	G	-0.0083	0.0018	4.43E-06
dimethylarginine	rs7519669	A	G	0.0082	0.0018	4.37E-06
dimethylarginine	rs12630769	T	C	-0.0083	0.0018	4.19E-06
dimethylarginine	rs11679051	T	C	0.0081	0.0018	4.14E-06
dimethylarginine	rs13099034	A	C	0.0083	0.0018	4.09E-06
dimethylarginine	rs10519364	T	G	-0.0083	0.0018	3.89E-06
dimethylarginine	rs4518383	A	G	-0.0083	0.0018	3.89E-06

dimethylarginine	rs7734201	A	C	0.0083	0.0018	3.89E-06
dimethylarginine	rs12582388	T	C	0.036	0.0078	3.64E-06
dimethylarginine	rs3797513	A	G	0.0084	0.0018	3.58E-06
dimethylarginine	rs7542366	C	G	0.0085	0.0018	3.48E-06
dimethylarginine	rs6711792	C	G	-0.0083	0.0018	3.47E-06
dimethylarginine	rs7580094	A	G	0.0083	0.0018	3.46E-06
dimethylarginine	rs10494660	A	G	0.0085	0.0018	3.45E-06
dimethylarginine	rs17087080	T	C	-0.0429	0.0092	3.12E-06
dimethylarginine	rs931251	C	G	0.0124	0.0027	3.10E-06
dimethylarginine	rs3014614	T	G	-0.014	0.003	3.06E-06
dimethylarginine	rs10494661	A	T	-0.0085	0.0018	2.92E-06
dimethylarginine	rs3797510	C	G	-0.0085	0.0018	2.71E-06
dimethylarginine	rs7542457	A	G	-0.0086	0.0018	2.69E-06
dimethylarginine	rs2305929	A	G	0.0084	0.0018	2.62E-06
dimethylarginine	rs10750725	T	C	-0.0126	0.0027	2.59E-06
dimethylarginine	rs12040918	A	G	0.0086	0.0018	2.45E-06
dimethylarginine	rs4590649	A	C	0.0086	0.0018	2.45E-06
dimethylarginine	rs1396905	A	T	-0.0086	0.0018	2.43E-06
dimethylarginine	rs6691675	A	G	-0.0086	0.0018	2.34E-06
dimethylarginine	rs12035015	T	G	0.0086	0.0018	2.33E-06
dimethylarginine	rs1336861	A	G	-0.0086	0.0018	2.32E-06
dimethylarginine	rs12035575	A	C	0.0086	0.0018	2.30E-06
dimethylarginine	rs27852	A	C	-0.0083	0.0018	2.18E-06
dimethylarginine	rs4556512	A	G	-0.0127	0.0027	2.09E-06
dimethylarginine	rs10494658	T	G	-0.0087	0.0018	2.04E-06
dimethylarginine	rs1945952	C	G	0.0128	0.0027	1.94E-06
dimethylarginine	rs7927036	A	G	0.0128	0.0027	1.94E-06
dimethylarginine	rs7948388	A	G	-0.0128	0.0027	1.94E-06

dimethylarginine	rs1945971	T	C	-0.0128	0.0027	1.94E-06
dimethylarginine	rs4754129	A	G	0.0128	0.0027	1.94E-06
dimethylarginine	rs6591128	A	G	-0.0128	0.0027	1.94E-06
dimethylarginine	rs1607821	A	G	-0.0083	0.0017	1.86E-06
dimethylarginine	rs10750724	A	C	0.0128	0.0027	1.85E-06
dimethylarginine	rs11232962	T	G	0.0176	0.0037	1.60E-06
dimethylarginine	rs1449046	T	G	0.013	0.0027	1.40E-06
dimethylarginine	rs6056032	C	G	-0.0128	0.0026	1.27E-06
dimethylarginine	rs300585	A	G	0.0084	0.0017	1.19E-06
dimethylarginine	rs468327	A	G	0.0088	0.0018	1.18E-06
dimethylarginine	rs7935854	T	C	-0.0131	0.0027	1.05E-06
dimethylarginine	rs6118296	A	G	0.0131	0.0027	1.02E-06
dimethylarginine	rs10791748	A	C	0.0132	0.0027	9.72E-07
dimethylarginine	rs510573	T	G	-0.0085	0.0017	9.11E-07
dimethylarginine	rs11199575	A	G	0.0088	0.0018	8.70E-07
dimethylarginine	rs40200	A	G	0.0131	0.0027	8.12E-07
dimethylarginine	rs6538186	T	C	0.0091	0.0018	1.95E-07
dimethylarginine	rs37369	T	C	0.0143	0.0027	8.48E-08
dimethylarginine	rs6107895	A	G	-0.0249	0.0046	6.18E-08
dimethylarginine	rs28305	C	G	0.0145	0.0026	3.68E-08
dimethylarginine	rs37379	A	G	0.0147	0.0027	3.43E-08
erythritol	rs6112914	A	G	-0.0115	0.0026	9.76E-06
erythritol	rs2875736	T	C	-0.0115	0.0026	9.67E-06
erythritol	rs6662982	A	G	-0.0114	0.0026	9.25E-06
erythritol	rs2295357	T	G	0.0266	0.006	9.22E-06
erythritol	rs356119	T	C	0.0154	0.0035	9.20E-06
erythritol	rs4431603	A	G	-0.0116	0.0026	8.60E-06
erythritol	rs10973759	A	G	-0.0117	0.0026	8.25E-06

erythritol	rs1609997	A	G	-0.0114	0.0026	8.06E-06
erythritol	rs1869957	T	C	-0.0114	0.0026	7.55E-06
erythritol	rs7701594	T	C	0.012	0.0027	7.45E-06
erythritol	rs17559164	T	C	0.045	0.01	6.80E-06
erythritol	rs17267298	T	C	-0.0117	0.0026	6.68E-06
erythritol	rs6552523	T	C	-0.012	0.0027	6.28E-06
erythritol	rs6128265	T	C	0.0797	0.0176	6.01E-06
erythritol	rs12471029	A	G	-0.0275	0.0061	5.86E-06
erythritol	rs2384656	A	G	-0.0115	0.0025	5.74E-06
erythritol	rs12467476	T	C	-0.0116	0.0025	5.46E-06
erythritol	rs1260326	T	C	0.0113	0.0025	5.15E-06
erythritol	rs2011920	C	G	-0.0154	0.0034	5.13E-06
erythritol	rs6047011	A	G	0.0117	0.0026	5.13E-06
erythritol	rs6047103	A	G	-0.0116	0.0025	5.04E-06
erythritol	rs13022873	A	C	-0.0116	0.0025	5.03E-06
erythritol	rs6081944	C	G	-0.0117	0.0026	5.02E-06
erythritol	rs6035721	A	G	-0.0116	0.0025	4.94E-06
erythritol	rs6760250	A	G	0.0116	0.0025	4.91E-06
erythritol	rs12478841	A	G	-0.0116	0.0025	4.89E-06
erythritol	rs9814648	A	G	0.012	0.0026	4.60E-06
erythritol	rs2404569	T	C	-0.016	0.0035	4.60E-06
erythritol	rs1919128	A	G	-0.0117	0.0025	4.54E-06
erythritol	rs1919127	T	C	-0.0117	0.0025	4.53E-06
erythritol	rs6821567	C	G	-0.0476	0.0104	4.38E-06
erythritol	rs4665382	T	C	-0.0117	0.0025	4.31E-06
erythritol	rs10208529	A	T	-0.0117	0.0025	4.31E-06
erythritol	rs4665987	A	G	0.0117	0.0025	4.30E-06
erythritol	rs4665991	A	G	0.0117	0.0025	4.30E-06

erythritol	rs780094	T	C	0.0114	0.0025	4.04E-06
erythritol	rs6112969	T	C	0.0118	0.0025	3.86E-06
erythritol	rs254848	T	C	0.0163	0.0035	3.68E-06
erythritol	rs6556409	A	G	0.0163	0.0035	3.61E-06
erythritol	rs2165127	A	G	-0.0751	0.0162	3.37E-06
erythritol	rs6591040	T	G	-0.0205	0.0044	3.34E-06
erythritol	rs6035685	A	G	0.012	0.0026	3.16E-06
erythritol	rs254840	A	G	-0.0166	0.0035	3.03E-06
erythritol	rs12699171	A	G	-0.0461	0.0099	3.03E-06
erythritol	rs4687717	T	C	0.0116	0.0025	2.99E-06
erythritol	rs2404571	A	G	0.0161	0.0034	2.92E-06
erythritol	rs6113028	T	C	-0.0123	0.0026	2.74E-06
erythritol	rs7632086	C	G	-0.0126	0.0027	2.47E-06
erythritol	rs4665383	C	G	-0.0121	0.0026	2.27E-06
erythritol	rs780093	T	C	0.0117	0.0025	2.17E-06
erythritol	rs12632671	A	G	0.0214	0.0045	1.68E-06
erythritol	rs12470843	T	C	-0.0309	0.0064	1.58E-06
erythritol	rs6137086	A	G	-0.0126	0.0026	1.04E-06
erythritol	rs4673702	T	C	0.0321	0.0066	1.00E-06
erythritol	rs6047134	A	G	-0.0125	0.0026	8.91E-07
erythritol	rs6106307	T	C	0.0125	0.0026	8.85E-07
erythritol	rs4420029	A	G	0.0129	0.0026	4.28E-07
erythritol	rs3795318	A	G	-0.013	0.0026	3.80E-07
erythritol	rs750528	A	G	-0.0275	0.0054	2.74E-07
erythritol	rs750527	A	G	-0.0275	0.0054	2.73E-07
erythritol	rs11211287	C	G	-0.0135	0.0026	2.69E-07
erythritol	rs12146051	C	G	-0.0132	0.0026	2.59E-07
erythritol	rs12142240	T	C	0.0132	0.0026	2.58E-07

erythritol	rs6693222	A	G	0.0133	0.0026	2.48E-07
erythritol	rs4256763	A	G	-0.0133	0.0026	2.14E-07
erythritol	rs6700974	A	C	0.0133	0.0026	2.11E-07
erythritol	rs7548617	A	C	0.0133	0.0026	2.10E-07
erythritol	rs11211220	A	G	0.0133	0.0026	2.10E-07
erythritol	rs12137934	A	G	0.0133	0.0026	2.05E-07
erythritol	rs6429592	A	G	0.0133	0.0026	2.05E-07
erythritol	rs7532388	A	G	-0.0133	0.0026	2.02E-07
erythritol	rs10890404	A	G	-0.0135	0.0026	1.99E-07
erythritol	rs11211247	T	G	-0.0134	0.0026	1.97E-07
erythritol	rs2181413	A	G	0.014	0.0027	1.86E-07
erythritol	rs4660909	C	G	0.0134	0.0026	1.75E-07
erythritol	rs12629138	T	G	0.0234	0.0044	1.29E-07
erythritol	rs17318174	A	G	0.0139	0.0026	1.28E-07
erythritol	rs884443	C	G	-0.0136	0.0026	1.10E-07
erythritol	rs12045409	A	G	-0.0138	0.0026	7.48E-08
erythritol	rs6700322	T	G	0.0138	0.0026	7.43E-08
erythritol	rs4364819	A	G	0.0138	0.0026	7.33E-08
erythritol	rs4660891	A	T	0.0138	0.0026	7.31E-08
erythritol	rs6674105	T	G	0.0138	0.0026	7.31E-08
erythritol	rs6673894	A	G	0.0138	0.0026	7.31E-08
erythritol	rs11211206	A	G	-0.0138	0.0026	7.31E-08
erythritol	rs11211211	T	G	0.0138	0.0026	7.31E-08
erythritol	rs7556472	A	G	0.0138	0.0026	7.31E-08
erythritol	rs4660893	T	C	-0.0138	0.0026	7.31E-08
erythritol	rs10890356	A	G	-0.0138	0.0026	7.31E-08
erythritol	rs6659064	C	G	0.0138	0.0026	7.30E-08
erythritol	rs4434876	T	C	-0.0138	0.0026	6.52E-08

erythritol	rs4423055	T	C	-0.0138	0.0026	6.52E-08
erythritol	rs6429579	T	C	-0.0138	0.0026	6.51E-08
erythritol	rs12635973	A	C	0.0239	0.0044	6.21E-08
erythritol	rs6702764	T	C	-0.0139	0.0026	5.68E-08
erythritol	rs12470336	A	T	-0.038	0.007	5.68E-08
erythritol	rs11211214	A	G	0.0139	0.0026	5.22E-08
erythritol	rs10789482	A	G	0.014	0.0026	4.51E-08
erythritol	rs6689417	T	C	0.014	0.0026	4.50E-08
erythritol	rs4388641	A	C	0.014	0.0026	4.35E-08
erythritol	rs10749859	T	C	-0.0142	0.0026	3.55E-08
erythritol	rs6696284	A	C	-0.0143	0.0026	2.74E-08
erythritol	rs11584814	A	G	-0.0143	0.0026	2.36E-08
erythritol	rs7533750	C	G	-0.0143	0.0026	2.30E-08
erythritol	rs9429187	A	C	-0.0143	0.0026	2.30E-08
erythritol	rs9429179	A	G	0.0143	0.0026	2.17E-08
erythritol	rs9429184	A	G	-0.0144	0.0026	2.05E-08
erythritol	rs2065708	A	G	0.0146	0.0026	1.61E-08
erythritol	rs2146562	T	C	-0.0148	0.0026	1.52E-08
erythritol	rs10789477	A	G	-0.0145	0.0026	1.42E-08
erythritol	rs6429593	T	G	0.015	0.0026	4.38E-09
erythritol	rs7555458	A	G	0.0151	0.0026	4.21E-09
erythritol	rs4660353	A	G	-0.0157	0.0027	3.78E-09
erythritol	rs11587982	A	T	0.0153	0.0026	2.93E-09
erythritol	rs11579176	T	G	-0.0154	0.0026	2.63E-09
erythritol	rs11582058	A	G	-0.0153	0.0026	2.37E-09
erythritol	rs11590549	T	C	-0.0154	0.0026	2.12E-09
erythritol	rs6662572	A	G	0.0159	0.0026	6.53E-10
erythritol	rs9429090	A	G	0.0159	0.0026	6.10E-10

erythritol	rs2209172	T	C	-0.0166	0.0027	5.08E-10
erythritol	rs1053941	T	G	-0.0171	0.0026	4.99E-11
erythritol	rs7542172	A	G	-0.0236	0.0034	1.98E-12
glucose	rs1392900	A	G	0.0076	0.0017	9.96E-06
glucose	rs4394200	A	T	0.0115	0.0026	9.84E-06
glucose	rs4073365	A	G	0.0072	0.0016	9.45E-06
glucose	rs4698075	T	C	-0.0076	0.0017	9.40E-06
glucose	rs9804190	T	C	0.0076	0.0017	8.95E-06
glucose	rs9511834	A	C	-0.0073	0.0016	8.94E-06
glucose	rs6604664	C	G	0.0076	0.0017	8.90E-06
glucose	rs9342631	T	G	0.0112	0.0025	8.89E-06
glucose	rs17130	T	C	-0.0074	0.0017	8.59E-06
glucose	rs442784	T	C	-0.0077	0.0017	8.20E-06
glucose	rs9634408	A	C	-0.0105	0.0023	7.96E-06
glucose	rs9837442	A	T	-0.0074	0.0017	7.88E-06
glucose	rs6732398	T	C	-0.034	0.0076	7.82E-06
glucose	rs1600678	A	T	0.0078	0.0017	7.64E-06
glucose	rs12121941	C	G	0.0078	0.0017	7.64E-06
glucose	rs17616642	A	G	-0.0078	0.0017	7.49E-06
glucose	rs2357591	T	C	0.0079	0.0017	7.00E-06
glucose	rs2357592	A	G	-0.0079	0.0017	6.99E-06
glucose	rs2357593	A	G	-0.0079	0.0017	6.98E-06
glucose	rs6540595	A	G	-0.0079	0.0017	6.95E-06
glucose	rs7751567	A	G	-0.027	0.006	6.80E-06
glucose	rs225569	A	T	-0.009	0.002	6.80E-06
glucose	rs6540598	T	C	0.0079	0.0018	6.69E-06
glucose	rs435315	A	T	-0.0078	0.0017	6.51E-06
glucose	rs428823	T	C	0.0078	0.0017	6.48E-06

glucose	rs300110	A	G	0.0079	0.0018	6.37E-06
glucose	rs16856252	T	C	-0.0113	0.0025	6.35E-06
glucose	rs12220759	C	G	0.0076	0.0017	6.27E-06
glucose	rs1480955	A	T	0.0078	0.0017	6.27E-06
glucose	rs2727160	A	C	-0.0078	0.0017	6.26E-06
glucose	rs9511498	A	G	-0.0079	0.0018	5.97E-06
glucose	rs1530876	A	G	0.0079	0.0018	5.94E-06
glucose	rs9915927	T	G	0.0077	0.0017	5.76E-06
glucose	rs9927153	T	C	-0.0079	0.0017	5.47E-06
glucose	rs4112000	T	C	0.0102	0.0022	5.46E-06
glucose	rs17473596	T	C	-0.041	0.009	5.23E-06
glucose	rs7717177	T	C	-0.0416	0.0091	4.95E-06
glucose	rs7070190	A	G	-0.0077	0.0017	4.89E-06
glucose	rs7740795	T	G	-0.0121	0.0026	4.46E-06
glucose	rs2159491	T	C	-0.0155	0.0034	4.44E-06
glucose	rs888977	T	C	0.0079	0.0017	4.40E-06
glucose	rs16856261	T	C	0.0116	0.0025	4.06E-06
glucose	rs7140592	C	G	-0.008	0.0017	3.98E-06
glucose	rs7751392	T	G	0.0082	0.0018	3.84E-06
glucose	rs1857095	T	C	-0.023	0.005	3.79E-06
glucose	rs10782700	T	C	0.023	0.005	3.79E-06
glucose	rs11853577	T	C	0.0076	0.0016	3.75E-06
glucose	rs11631536	A	C	0.008	0.0017	3.67E-06
glucose	rs7743021	T	G	-0.0121	0.0026	3.55E-06
glucose	rs6901611	T	C	-0.0121	0.0026	3.53E-06
glucose	rs1585933	A	G	0.008	0.0017	3.53E-06
glucose	rs11787684	T	C	-0.0084	0.0018	3.52E-06
glucose	rs4965564	C	G	0.008	0.0017	3.51E-06

glucose	rs11623335	A	G	-0.008	0.0017	3.48E-06
glucose	rs7530369	T	G	0.0082	0.0018	3.45E-06
glucose	rs11921640	A	T	0.0113	0.0024	3.44E-06
glucose	rs4633693	A	G	0.008	0.0017	3.44E-06
glucose	rs831831	A	G	-0.0081	0.0017	3.20E-06
glucose	rs10489848	A	C	0.008	0.0017	3.14E-06
glucose	rs1871741	A	G	0.0081	0.0017	2.96E-06
glucose	rs950156	A	G	-0.008	0.0017	2.73E-06
glucose	rs3027077	T	C	0.0081	0.0017	2.66E-06
glucose	rs7286027	A	G	-0.0082	0.0017	2.53E-06
glucose	rs9548447	T	G	0.0118	0.0025	2.47E-06
glucose	rs16868209	T	G	0.0081	0.0017	2.46E-06
glucose	rs2727108	T	G	0.0081	0.0017	2.46E-06
glucose	rs6598289	C	G	0.0081	0.0017	2.32E-06
glucose	rs7290456	T	C	-0.0082	0.0017	2.29E-06
glucose	rs12911284	A	C	0.0081	0.0017	2.26E-06
glucose	rs16890639	T	C	0.0082	0.0017	2.17E-06
glucose	rs2497567	A	G	-0.0083	0.0017	2.06E-06
glucose	rs6814228	T	C	0.0082	0.0017	1.99E-06
glucose	rs12134225	A	G	0.012	0.0025	1.63E-06
glucose	rs6883962	T	C	-0.012	0.0025	1.63E-06
glucose	rs4572706	A	G	-0.0084	0.0018	1.53E-06
glucose	rs10494322	T	C	-0.0084	0.0017	1.43E-06
glucose	rs12534545	A	G	0.0091	0.0019	1.22E-06
glucose	rs1402837	T	C	0.0084	0.0017	1.07E-06
glucose	rs7087801	T	C	0.0083	0.0017	9.88E-07
glucose	rs484066	A	T	-0.0082	0.0017	7.70E-07
glucose	rs17540154	A	G	-0.0086	0.0017	7.55E-07

glucose	rs741160	A	G	0.0093	0.0019	6.82E-07
glucose	rs17081411	A	T	0.0085	0.0017	6.77E-07
glucose	rs7993983	A	G	-0.0085	0.0017	6.71E-07
glucose	rs537183	T	C	0.0082	0.0017	6.70E-07
glucose	rs557462	T	C	0.0082	0.0017	6.68E-07
glucose	rs563694	A	C	0.0082	0.0017	6.64E-07
glucose	rs508506	A	C	-0.0084	0.0017	6.61E-07
glucose	rs2501892	C	G	0.0088	0.0018	6.34E-07
glucose	rs2501905	A	G	-0.0088	0.0018	6.30E-07
glucose	rs10828691	A	G	-0.0084	0.0017	6.05E-07
glucose	rs2501904	A	T	-0.0088	0.0018	5.92E-07
glucose	rs129986	T	C	-0.0724	0.0145	5.55E-07
glucose	rs2501893	A	T	0.0089	0.0018	5.29E-07
glucose	rs9363753	T	C	0.0089	0.0018	5.21E-07
glucose	rs552976	A	G	-0.0084	0.0016	3.87E-07
glucose	rs560887	T	C	-0.0086	0.0017	3.17E-07
glucose	rs2497582	A	G	0.0089	0.0017	2.59E-07
glucose	rs2497569	A	T	0.009	0.0017	2.13E-07
glucose	rs2497570	T	G	-0.009	0.0017	2.10E-07
glucose	rs573225	A	G	0.0087	0.0017	2.06E-07
glucose	rs475612	T	C	-0.0087	0.0017	1.46E-07
glucose	rs2497587	A	G	-0.0092	0.0017	1.30E-07
glucose	rs6709087	A	G	-0.0093	0.0017	1.04E-07
glucose	rs579060	T	G	0.0088	0.0017	9.81E-08
glucose	rs569805	A	T	-0.0088	0.0017	9.78E-08
glucose	rs486981	A	G	-0.0088	0.0017	9.70E-08
glucose	rs502570	A	G	-0.0089	0.0017	7.32E-08
glucose	rs2501901	A	C	0.0095	0.0018	7.29E-08

glucose	rs12038838	C	G	0.0095	0.0018	6.14E-08
glucose	rs11119510	T	G	0.0095	0.0018	6.14E-08
glucose	rs2501903	T	G	0.0095	0.0018	6.14E-08
glucose	rs2501900	T	C	0.0095	0.0018	6.14E-08
glucose	rs2501899	A	G	-0.0095	0.0018	6.12E-08
glucose	rs742566	T	C	-0.0095	0.0018	6.09E-08
glucose	rs2501896	A	G	0.0096	0.0018	6.06E-08
glucose	rs2501895	A	G	-0.0096	0.0018	6.04E-08
glucose	rs2501894	A	G	-0.0096	0.0018	6.03E-08
glucose	rs853787	T	G	0.0091	0.0017	3.35E-08
glucose	rs494874	T	C	-0.0092	0.0017	3.07E-08
glucose	rs853789	A	G	-0.0094	0.0017	3.00E-08
glucose	rs13431652	T	C	0.0099	0.0017	4.34E-09
glutamate	rs2412907	A	G	0.0158	0.0036	9.79E-06
glutamate	rs1461058	T	C	0.0155	0.0035	8.99E-06
glutamate	rs992534	A	T	0.0157	0.0035	7.75E-06
glutamate	rs4149121	C	G	0.0158	0.0035	7.69E-06
glutamate	rs11940184	T	C	0.0162	0.0036	6.71E-06
glutamate	rs11734978	A	G	-0.0162	0.0036	6.71E-06
glutamate	rs939807	A	T	0.0162	0.0036	6.70E-06
glutamate	rs13126396	T	G	-0.0162	0.0036	6.57E-06
glutamate	rs10879766	T	C	0.0158	0.0035	5.91E-06
glutamate	rs10866460	T	C	-0.016	0.0035	4.46E-06
glutamate	rs7313577	C	G	-0.0164	0.0035	2.22E-06
glutamate	rs7655355	T	C	-0.017	0.0036	2.01E-06
glutamate	rs11729273	T	G	-0.0173	0.0036	1.59E-06
glutamate	rs10517440	T	C	0.0173	0.0036	1.41E-06
glutamate	rs7299867	T	G	0.0171	0.0035	1.01E-06

glutamate	rs17089325	T	C	0.0176	0.0036	9.16E-07
glutamate	rs10008009	A	G	0.0176	0.0036	8.74E-07
glutamate	rs13137805	A	C	-0.0176	0.0036	8.72E-07
glutamate	rs1915902	A	T	0.0177	0.0036	8.21E-07
glutamate	rs13128050	T	C	-0.0177	0.0036	7.87E-07
glutamate	rs17290326	A	T	-0.0178	0.0035	4.38E-07
glutamate	rs10879778	T	C	-0.0181	0.0035	2.59E-07
glutamate	rs10001785	A	T	-0.0182	0.0035	2.14E-07
glutamate	rs1869463	A	G	0.0183	0.0035	1.69E-07
glutamate	rs6554533	C	G	0.0185	0.0035	1.62E-07
glutamate	rs2007685	T	C	0.0187	0.0035	1.09E-07
glutamate	rs7665651	T	C	-0.0188	0.0035	9.55E-08
glutamate	rs12647734	T	C	0.0188	0.0035	9.51E-08
glutamate	rs13105985	T	C	0.0188	0.0035	8.93E-08
glutamate	rs2037458	A	G	0.0188	0.0035	8.78E-08
glutamine	rs1363748	A	G	-0.0051	0.0012	9.84E-06
glutamine	rs3752901	T	C	-0.0052	0.0012	9.83E-06
glutamine	rs11684628	A	G	0.0052	0.0012	8.30E-06
glutamine	rs2219762	T	C	0.0053	0.0012	7.18E-06
glutamine	rs6704992	A	G	0.0053	0.0012	6.72E-06
glutamine	rs11685766	T	C	0.0053	0.0012	5.97E-06
glutamine	rs2199619	T	C	0.0054	0.0012	5.23E-06
glutamine	rs2911711	A	T	0.0051	0.0011	4.97E-06
glutamine	rs1260333	A	G	-0.0051	0.0011	4.95E-06
glutamine	rs12232026	A	T	-0.0097	0.0021	4.39E-06
glutamine	rs813497	A	G	-0.0106	0.0023	4.31E-06
glutamine	rs1799211	T	G	-0.0082	0.0018	4.20E-06
glutamine	rs7068278	T	G	0.0083	0.0018	3.04E-06

glutamine	rs11596604	A	G	0.0323	0.0069	2.52E-06
glutamine	rs1082214	T	C	-0.0138	0.0029	2.39E-06
glutamine	rs2748991	T	C	-0.007	0.0015	2.34E-06
glutamine	rs7394051	T	C	0.0055	0.0012	2.18E-06
glutamine	rs7078003	T	C	0.0087	0.0018	1.84E-06
glutamine	rs16977047	T	C	-0.0056	0.0011	1.08E-06
glutamine	rs774045	A	G	-0.0145	0.0029	7.44E-07
glutamine	rs774044	T	C	-0.0148	0.003	5.65E-07
glutamine	rs780094	T	C	-0.0057	0.0011	5.11E-07
glutamine	rs1260326	T	C	-0.0057	0.0011	3.39E-07
glutamine	rs774049	T	C	-0.0168	0.0032	2.14E-07
glutamine	rs780093	T	C	-0.0058	0.0011	1.93E-07
glutamine	rs7313455	A	C	0.0062	0.0011	2.05E-08
glutamine	rs7304944	T	C	-0.0131	0.0021	3.48E-10
glutamine	rs2657880	C	G	-0.0124	0.0018	1.10E-11
glutamine	rs7302925	A	G	-0.0129	0.0018	2.21E-13
glutamine	rs774211	T	C	0.0143	0.0019	2.02E-14
glutamine	rs2657896	T	C	-0.0147	0.0019	4.46E-15
glutamine	rs2694917	T	C	0.0141	0.0018	1.97E-15
glutamine	rs2638315	C	G	-0.0141	0.0017	4.53E-16
glutamine	rs1043011	T	G	-0.0146	0.0017	4.51E-17
glutamine	rs2657879	A	G	0.015	0.0017	6.15E-18
glycerate	rs12507340	A	G	0.0111	0.0025	9.84E-06
glycerate	rs3756289	A	G	0.0111	0.0025	9.61E-06
glycerate	rs26003	T	C	0.0112	0.0025	9.31E-06
glycerate	rs7299749	T	C	-0.0106	0.0024	9.28E-06
glycerate	rs13110039	A	C	-0.0148	0.0033	9.13E-06
glycerate	rs4759557	A	G	-0.0113	0.0025	8.95E-06

glycerate	rs10463886	A	T	-0.0112	0.0025	8.91E-06
glycerate	rs2042252	A	G	-0.0112	0.0025	8.39E-06
glycerate	rs17131975	A	G	-0.0216	0.0048	8.18E-06
glycerate	rs9806605	A	C	-0.0204	0.0046	8.12E-06
glycerate	rs9806478	A	T	0.0204	0.0046	7.77E-06
glycerate	rs884870	C	G	-0.0202	0.0045	7.40E-06
glycerate	rs17011367	T	C	0.0115	0.0026	7.38E-06
glycerate	rs10054168	T	C	0.0113	0.0025	7.31E-06
glycerate	rs4705890	T	C	0.0113	0.0025	7.17E-06
glycerate	rs7136520	A	G	-0.0107	0.0024	7.16E-06
glycerate	rs13151804	C	G	-0.0113	0.0025	6.87E-06
glycerate	rs4341617	T	C	-0.0114	0.0025	6.87E-06
glycerate	rs2643891	A	G	-0.018	0.004	6.80E-06
glycerate	rs17086755	A	G	-0.045	0.01	6.80E-06
glycerate	rs7731773	A	G	0.0114	0.0025	6.73E-06
glycerate	rs13161937	T	C	-0.0113	0.0025	6.68E-06
glycerate	rs6478869	T	C	0.011	0.0024	6.51E-06
glycerate	rs12514547	C	G	0.0114	0.0025	6.50E-06
glycerate	rs17525095	T	C	0.0152	0.0034	6.35E-06
glycerate	rs6868007	T	C	0.0114	0.0025	6.03E-06
glycerate	rs11618222	T	C	-0.0182	0.004	6.00E-06
glycerate	rs10040578	T	C	0.0114	0.0025	5.99E-06
glycerate	rs4836200	A	G	-0.0109	0.0024	5.91E-06
glycerate	rs12866131	A	C	0.011	0.0024	5.62E-06
glycerate	rs338526	T	C	-0.0111	0.0024	5.61E-06
glycerate	rs9565365	A	G	0.064	0.014	4.84E-06
glycerate	rs13138060	A	C	-0.0149	0.0033	4.45E-06
glycerate	rs13128384	T	C	0.015	0.0033	4.31E-06

glycerate	rs17086786	T	G	-0.046	0.01	4.23E-06
glycerate	rs17086746	T	C	-0.046	0.01	4.23E-06
glycerate	rs7861435	C	G	-0.0115	0.0025	4.01E-06
glycerate	rs11734847	T	C	-0.0117	0.0025	3.93E-06
glycerate	rs13102848	C	G	-0.0152	0.0033	3.13E-06
glycerate	rs2907828	C	G	-0.0188	0.004	2.74E-06
glycerate	rs4759887	A	G	0.0113	0.0024	2.71E-06
glycerate	rs11724197	A	G	0.0159	0.0034	2.29E-06
glycerate	rs6743210	T	C	0.0123	0.0026	2.21E-06
glycerate	rs6896132	C	G	0.0121	0.0025	1.80E-06
glycerate	rs12507784	A	G	-0.012	0.0025	1.78E-06
glycerate	rs3890836	C	G	-0.0118	0.0024	8.14E-07
glycerate	rs11061407	T	C	0.0119	0.0024	5.91E-07
glycerate	rs11061416	A	G	-0.0125	0.0024	1.76E-07
glycine	rs7608258	A	G	-0.0109	0.0025	9.98E-06
glycine	rs804885	T	C	0.0209	0.0047	9.97E-06
glycine	rs1048194	A	G	-0.0213	0.0048	9.91E-06
glycine	rs1123227	A	C	0.0171	0.0039	9.80E-06
glycine	rs4142154	A	G	-0.0112	0.0025	9.53E-06
glycine	rs2474711	C	G	-0.0133	0.003	9.35E-06
glycine	rs13203202	T	C	0.0107	0.0024	9.26E-06
glycine	rs16917276	A	G	-0.0311	0.007	8.96E-06
glycine	rs2549899	C	G	0.0205	0.0046	8.45E-06
glycine	rs10804181	T	G	0.0107	0.0024	8.38E-06
glycine	rs1105724	A	G	0.0165	0.0037	8.29E-06
glycine	rs1027901	A	G	-0.0107	0.0024	8.22E-06
glycine	rs583776	T	C	-0.0186	0.0042	8.19E-06
glycine	rs8453	T	G	0.0144	0.0032	8.06E-06

glycine	rs10804183	A	G	-0.0107	0.0024	8.01E-06
glycine	rs983498	C	G	-0.0197	0.0044	7.98E-06
glycine	rs4889225	T	C	-0.0214	0.0048	7.86E-06
glycine	rs6734696	A	G	0.011	0.0025	7.77E-06
glycine	rs12341400	A	G	-0.0249	0.0056	7.70E-06
glycine	rs7206814	T	C	-0.0214	0.0048	7.60E-06
glycine	rs7019788	T	C	-0.0247	0.0055	7.49E-06
glycine	rs12345735	A	G	-0.0247	0.0055	7.46E-06
glycine	rs7027390	A	G	-0.0247	0.0055	7.44E-06
glycine	rs952045	T	C	0.0247	0.0055	7.34E-06
glycine	rs17735598	T	G	0.0173	0.0039	7.08E-06
glycine	rs1992854	T	C	-0.011	0.0025	6.98E-06
glycine	rs4672587	A	G	-0.0112	0.0025	6.85E-06
glycine	rs4324141	A	G	-0.0212	0.0047	6.74E-06
glycine	rs2370949	A	C	-0.0108	0.0024	6.65E-06
glycine	rs4673543	C	G	-0.0112	0.0025	6.62E-06
glycine	rs2287598	A	G	-0.0142	0.0032	6.62E-06
glycine	rs10514513	T	C	-0.0214	0.0048	6.59E-06
glycine	rs2287424	T	C	-0.0108	0.0024	6.48E-06
glycine	rs725379	T	C	0.0108	0.0024	6.48E-06
glycine	rs3856339	A	G	0.0108	0.0024	6.47E-06
glycine	rs2287432	T	C	-0.0108	0.0024	6.47E-06
glycine	rs3845633	A	G	0.0108	0.0024	6.47E-06
glycine	rs2287429	T	C	-0.0108	0.0024	6.47E-06
glycine	rs11889228	C	G	0.0108	0.0024	6.44E-06
glycine	rs13388400	T	C	0.0207	0.0046	6.05E-06
glycine	rs12443549	T	C	0.0217	0.0048	5.93E-06
glycine	rs11111501	T	C	-0.0214	0.0047	5.92E-06

glycine	rs10006873	T	C	0.0728	0.0161	5.89E-06
glycine	rs12339917	A	G	0.0319	0.007	5.71E-06
glycine	rs12349613	T	C	0.0338	0.0074	5.62E-06
glycine	rs10459872	A	G	0.0214	0.0047	5.61E-06
glycine	rs2602407	A	G	0.0215	0.0047	5.58E-06
glycine	rs2548966	A	T	0.011	0.0024	5.50E-06
glycine	rs13022335	T	C	-0.014	0.0031	5.34E-06
glycine	rs491847	A	G	-0.0113	0.0025	5.33E-06
glycine	rs11942744	T	C	0.072	0.0158	5.16E-06
glycine	rs6836137	A	C	-0.0785	0.0172	4.82E-06
glycine	rs6433282	T	C	-0.0112	0.0024	4.78E-06
glycine	rs6951820	A	G	0.0111	0.0024	4.77E-06
glycine	rs2287596	T	C	0.0114	0.0025	4.65E-06
glycine	rs3755184	C	G	0.0111	0.0024	4.64E-06
glycine	rs16954505	T	G	0.0221	0.0048	4.58E-06
glycine	rs11059127	T	G	-0.0138	0.003	4.55E-06
glycine	rs6594934	A	G	-0.0171	0.0037	4.10E-06
glycine	rs2278024	C	G	0.0218	0.0047	4.09E-06
glycine	rs3770699	T	G	0.0111	0.0024	3.98E-06
glycine	rs10847348	T	C	-0.0138	0.003	3.97E-06
glycine	rs7582822	A	G	0.0113	0.0024	3.84E-06
glycine	rs10514514	T	C	0.0221	0.0048	3.51E-06
glycine	rs10514515	T	C	0.0221	0.0048	3.51E-06
glycine	rs12445303	T	C	-0.0221	0.0048	3.51E-06
glycine	rs1414	A	G	0.0221	0.0048	3.51E-06
glycine	rs8177957	A	G	-0.0221	0.0048	3.50E-06
glycine	rs8177940	A	G	-0.0221	0.0048	3.47E-06
glycine	rs7598448	A	T	-0.0112	0.0024	3.46E-06

glycine	rs4396646	A	G	-0.0112	0.0024	3.44E-06
glycine	rs10514512	C	G	0.0221	0.0048	3.42E-06
glycine	rs7204040	A	G	-0.0222	0.0048	3.26E-06
glycine	rs4312427	A	T	0.0112	0.0024	3.18E-06
glycine	rs4399666	A	C	-0.0112	0.0024	3.18E-06
glycine	rs9929586	A	G	0.0223	0.0048	3.10E-06
glycine	rs10165443	T	C	-0.0113	0.0024	3.09E-06
glycine	rs16954572	T	C	0.0223	0.0048	3.06E-06
glycine	rs47137	A	C	-0.0113	0.0024	2.99E-06
glycine	rs3012735	A	G	0.0113	0.0024	2.98E-06
glycine	rs3012733	A	G	0.0113	0.0024	2.94E-06
glycine	rs8056972	A	C	-0.0223	0.0048	2.92E-06
glycine	rs754429	T	C	-0.0222	0.0047	2.88E-06
glycine	rs9695498	T	C	0.0113	0.0024	2.88E-06
glycine	rs8177959	T	C	0.0223	0.0048	2.87E-06
glycine	rs8052490	A	G	0.0224	0.0048	2.77E-06
glycine	rs11942622	T	G	0.0712	0.0152	2.68E-06
glycine	rs9926174	A	G	0.0225	0.0048	2.67E-06
glycine	rs2287433	A	G	0.0113	0.0024	2.62E-06
glycine	rs9933184	A	G	-0.0225	0.0048	2.61E-06
glycine	rs9925943	T	C	0.0225	0.0048	2.58E-06
glycine	rs3851937	T	C	0.0112	0.0024	2.57E-06
glycine	rs9925940	T	G	0.0225	0.0048	2.57E-06
glycine	rs9923732	A	G	0.0225	0.0048	2.55E-06
glycine	rs7603241	A	G	-0.0113	0.0024	2.47E-06
glycine	rs12444137	A	T	0.0226	0.0048	2.45E-06
glycine	rs2287599	C	G	0.0114	0.0024	2.42E-06
glycine	rs229914	A	G	-0.0115	0.0024	2.40E-06

glycine	rs16954513	A	T	-0.0227	0.0048	2.37E-06
glycine	rs4255905	A	G	0.0179	0.0038	2.36E-06
glycine	rs4102441	T	C	-0.0113	0.0024	2.36E-06
glycine	rs6745925	A	G	0.0113	0.0024	2.30E-06
glycine	rs2371000	T	C	0.012	0.0025	2.22E-06
glycine	rs3821135	T	G	-0.0185	0.0039	2.15E-06
glycine	rs3012739	A	G	0.0116	0.0024	2.13E-06
glycine	rs11686803	A	C	-0.0182	0.0038	2.00E-06
glycine	rs7709785	T	C	-0.0176	0.0037	1.99E-06
glycine	rs13031255	T	C	0.0179	0.0038	1.98E-06
glycine	rs2007748	T	C	0.0114	0.0024	1.95E-06
glycine	rs7580046	A	G	0.0114	0.0024	1.93E-06
glycine	rs6732002	A	G	0.0114	0.0024	1.84E-06
glycine	rs11059124	A	G	0.0144	0.003	1.83E-06
glycine	rs1379838	C	G	0.0115	0.0024	1.74E-06
glycine	rs16954582	T	C	-0.0227	0.0047	1.65E-06
glycine	rs1509820	A	G	0.0115	0.0024	1.60E-06
glycine	rs10459871	C	G	0.0224	0.0047	1.55E-06
glycine	rs1044708	T	G	-0.0117	0.0024	1.50E-06
glycine	rs4129704	C	G	0.0181	0.0038	1.46E-06
glycine	rs13028752	T	C	-0.019	0.0039	1.45E-06
glycine	rs3770684	A	C	-0.019	0.0039	1.42E-06
glycine	rs12444747	C	G	0.0234	0.0048	1.25E-06
glycine	rs1563075	T	C	0.0233	0.0048	1.09E-06
glycine	rs8082170	T	C	0.0153	0.0031	1.07E-06
glycine	rs6435580	T	C	-0.0121	0.0025	1.04E-06
glycine	rs2970077	A	G	-0.0237	0.0048	9.93E-07
glycine	rs804895	T	C	-0.0235	0.0048	8.44E-07

glycine	rs3821136	A	G	0.0118	0.0024	7.43E-07
glycine	rs329319	A	G	0.0127	0.0025	6.50E-07
glycine	rs2287600	T	G	0.0196	0.0039	6.48E-07
glycine	rs11684145	T	G	-0.0151	0.003	6.43E-07
glycine	rs418123	A	C	0.0146	0.0029	6.30E-07
glycine	rs13005552	T	C	-0.0196	0.0039	6.14E-07
glycine	rs2370956	A	G	0.012	0.0024	5.82E-07
glycine	rs6435568	A	G	-0.012	0.0024	5.68E-07
glycine	rs11677657	T	C	-0.0188	0.0037	5.04E-07
glycine	rs4520972	C	G	0.0123	0.0024	4.34E-07
glycine	rs6721477	T	G	0.0123	0.0024	4.15E-07
glycine	rs4761007	T	C	0.0157	0.0031	4.13E-07
glycine	rs920212	A	G	-0.0147	0.0029	3.77E-07
glycine	rs1981786	A	G	-0.0194	0.0038	3.34E-07
glycine	rs1981787	A	C	0.0194	0.0038	3.26E-07
glycine	rs13401591	T	C	-0.0232	0.0045	3.11E-07
glycine	rs11695890	A	T	0.0151	0.0029	2.42E-07
glycine	rs11692975	T	C	0.0151	0.0029	2.41E-07
glycine	rs7577965	T	C	0.0161	0.0031	2.36E-07
glycine	rs11578	T	C	0.0142	0.0027	1.93E-07
glycine	rs7573258	A	G	-0.0126	0.0024	1.93E-07
glycine	rs16844843	A	G	-0.0287	0.0055	1.90E-07
glycine	rs13029304	A	G	0.0278	0.0053	1.58E-07
glycine	rs6736693	A	G	0.0174	0.0033	1.15E-07
glycine	rs6715026	T	C	-0.0156	0.0029	9.41E-08
glycine	rs3856342	A	C	0.013	0.0024	8.45E-08
glycine	rs4673578	A	G	-0.0157	0.0029	6.82E-08
glycine	rs12694202	T	C	0.013	0.0024	6.72E-08

glycine	rs920211	T	C	-0.0158	0.0029	6.57E-08
glycine	rs13015456	T	C	-0.0159	0.0029	6.19E-08
glycine	rs16844859	A	G	0.0301	0.0056	5.81E-08
glycine	rs16844865	C	G	-0.0301	0.0056	5.81E-08
glycine	rs10932365	T	G	0.0133	0.0025	5.73E-08
glycine	rs12623879	A	G	0.0159	0.0029	5.69E-08
glycine	rs6727826	T	C	-0.0286	0.0052	4.35E-08
glycine	rs10490321	T	C	0.0304	0.0055	3.63E-08
glycine	rs16824971	A	G	-0.0305	0.0055	3.15E-08
glycine	rs35704389	A	G	0.0243	0.0044	2.93E-08
glycine	rs13027153	A	G	0.0212	0.0038	2.64E-08
glycine	rs10804186	T	C	0.0135	0.0024	2.17E-08
glycine	rs2370997	C	G	-0.0136	0.0024	1.67E-08
glycine	rs2370998	A	G	-0.0136	0.0024	1.56E-08
glycine	rs6435583	T	C	-0.0307	0.0054	1.41E-08
glycine	rs796224	T	C	0.0172	0.003	1.13E-08
glycine	rs918233	T	C	0.0142	0.0024	7.04E-09
glycine	rs918232	A	G	-0.0145	0.0025	3.98E-09
glycine	rs1588365	A	G	-0.0144	0.0024	3.74E-09
glycine	rs1544717	A	T	0.0144	0.0024	3.71E-09
glycine	rs3915694	A	G	-0.0144	0.0024	3.69E-09
glycine	rs1509819	A	G	-0.0144	0.0024	3.66E-09
glycine	rs2664238	T	C	-0.0144	0.0024	3.66E-09
glycine	rs10165084	A	C	-0.0144	0.0024	3.66E-09
glycine	rs2371074	T	C	-0.0188	0.0032	3.09E-09
glycine	rs2287431	A	C	0.0181	0.003	1.03E-09
glycine	rs7608489	A	G	0.0149	0.0024	8.58E-10
glycine	rs4635463	T	C	0.0235	0.0038	6.45E-10

glycine	rs4327185	T	C	0.0235	0.0038	6.31E-10
glycine	rs17772042	A	T	0.0185	0.003	6.17E-10
glycine	rs7580725	T	C	-0.0236	0.0038	5.96E-10
glycine	rs6748782	A	C	-0.0303	0.0049	5.36E-10
glycine	rs6714271	A	T	0.0152	0.0024	4.06E-10
glycine	rs6743162	T	C	0.0192	0.0031	3.95E-10
glycine	rs4425028	A	G	-0.024	0.0038	3.37E-10
glycine	rs10932342	T	G	-0.0155	0.0024	2.76E-10
glycine	rs4505461	C	G	0.0241	0.0038	2.43E-10
glycine	rs7566803	A	G	0.0242	0.0038	2.24E-10
glycine	rs11688017	T	C	-0.0191	0.003	2.07E-10
glycine	rs4520971	A	C	0.0195	0.0031	1.85E-10
glycine	rs7420853	A	G	0.0241	0.0038	1.57E-10
glycine	rs4362497	A	T	0.0241	0.0038	1.50E-10
glycine	rs4580326	T	C	0.0244	0.0038	1.45E-10
glycine	rs7587791	A	C	0.0155	0.0024	1.33E-10
glycine	rs13006521	A	G	-0.0245	0.0038	1.30E-10
glycine	rs7574001	T	C	0.0286	0.0044	1.18E-10
glycine	rs4438425	T	C	0.0244	0.0038	1.03E-10
glycine	rs12473296	A	C	-0.0266	0.0041	9.25E-11
glycine	rs4611592	A	G	0.0246	0.0038	8.31E-11
glycine	rs10932349	C	G	0.0312	0.0048	7.45E-11
glycine	rs17774535	T	C	0.0201	0.0031	6.57E-11
glycine	rs16845046	A	G	0.0211	0.0032	6.04E-11
glycine	rs16845044	A	C	0.0211	0.0032	6.00E-11
glycine	rs10172081	C	G	0.0157	0.0024	5.92E-11
glycine	rs4325692	A	G	0.047	0.0072	5.21E-11
glycine	rs2664230	A	G	0.0159	0.0024	4.11E-11

glycine	rs2544307	A	G	-0.0159	0.0024	3.76E-11
glycine	rs11904031	T	C	-0.0159	0.0024	3.76E-11
glycine	rs2887913	A	C	0.0159	0.0024	3.64E-11
glycine	rs2664233	A	T	0.0159	0.0024	3.64E-11
glycine	rs6744672	A	G	-0.0159	0.0024	3.63E-11
glycine	rs10490318	C	G	-0.0196	0.003	3.57E-11
glycine	rs2247708	C	G	0.0159	0.0024	3.47E-11
glycine	rs2012564	A	G	0.016	0.0024	3.38E-11
glycine	rs2664232	A	G	-0.016	0.0024	2.58E-11
glycine	rs2250976	T	G	0.0163	0.0024	1.64E-11
glycine	rs17771664	A	G	-0.0201	0.003	1.63E-11
glycine	rs6725303	A	C	-0.0202	0.003	1.39E-11
glycine	rs16844534	A	G	0.0201	0.003	1.35E-11
glycine	rs6725770	A	G	-0.0202	0.003	1.21E-11
glycine	rs6435589	C	G	0.0258	0.0038	1.05E-11
glycine	rs11694909	C	G	0.0257	0.0038	1.03E-11
glycine	rs10932343	T	C	-0.0163	0.0024	9.84E-12
glycine	rs10932341	A	T	-0.0164	0.0024	9.26E-12
glycine	rs12991443	C	G	0.0202	0.003	9.13E-12
glycine	rs6729280	A	C	-0.0209	0.0031	8.71E-12
glycine	rs12611623	A	G	-0.0203	0.003	8.58E-12
glycine	rs6711129	A	G	-0.0203	0.003	7.05E-12
glycine	rs17822981	A	G	0.0205	0.003	6.40E-12
glycine	rs2664237	A	G	-0.0166	0.0024	5.75E-12
glycine	rs12472153	T	C	0.0166	0.0024	5.74E-12
glycine	rs981024	A	G	-0.0166	0.0024	5.74E-12
glycine	rs2247029	A	G	-0.0166	0.0024	5.74E-12
glycine	rs2664231	C	G	-0.0166	0.0024	5.52E-12

glycine	rs2544310	A	G	0.0166	0.0024	5.39E-12
glycine	rs6741683	T	C	-0.0261	0.0038	5.38E-12
glycine	rs12466705	A	G	-0.0204	0.003	4.82E-12
glycine	rs17824552	T	C	0.0204	0.003	4.81E-12
glycine	rs4372818	T	C	0.0206	0.003	4.36E-12
glycine	rs6752320	A	T	-0.0206	0.003	4.33E-12
glycine	rs6714124	T	C	-0.0167	0.0024	3.62E-12
glycine	rs12476980	A	G	0.0266	0.0038	3.34E-12
glycine	rs2544312	A	C	-0.0168	0.0024	3.03E-12
glycine	rs12991049	T	C	0.0215	0.0031	2.71E-12
glycine	rs13024719	A	T	0.017	0.0024	2.61E-12
glycine	rs6755648	A	G	-0.0169	0.0024	2.28E-12
glycine	rs6750325	T	G	-0.017	0.0024	1.39E-12
glycine	rs12991650	A	C	-0.0216	0.003	1.37E-12
glycine	rs2371001	A	G	0.0172	0.0024	1.35E-12
glycine	rs2302911	A	G	0.0172	0.0024	1.29E-12
glycine	rs10804185	T	G	0.021	0.003	1.26E-12
glycine	rs10469763	T	C	0.0207	0.0029	7.80E-13
glycine	rs2195575	A	T	-0.0218	0.003	7.74E-13
glycine	rs1542009	T	C	-0.0225	0.0031	5.21E-13
glycine	rs13008138	C	G	-0.0222	0.0031	3.95E-13
glycine	rs1016403	A	G	0.0288	0.0038	4.18E-14
glycine	rs4505460	A	C	0.0252	0.0033	1.43E-14
glycine	rs13011429	C	G	-0.0292	0.0037	5.38E-15
glycine	rs1158374	T	C	0.0303	0.0038	3.08E-15
glycine	rs7607199	C	G	-0.0195	0.0025	2.09E-15
glycine	rs11684318	T	C	-0.0193	0.0024	2.08E-15
glycine	rs1652314	C	G	0.0193	0.0024	1.87E-15

glycine	rs1657863	T	G	0.0193	0.0024	1.85E-15
glycine	rs4511662	A	T	0.0196	0.0024	7.35E-16
glycine	rs7607205	T	G	0.0196	0.0024	7.31E-16
glycine	rs9288418	A	G	-0.02	0.0024	2.29E-16
glycine	rs12468557	T	C	-0.0199	0.0024	1.75E-16
glycine	rs7607412	A	C	-0.02	0.0024	1.52E-16
glycine	rs11685945	T	G	0.0203	0.0024	4.26E-17
glycine	rs427298	A	G	-0.0205	0.0024	3.21E-17
glycine	rs319737	A	T	0.0207	0.0024	1.58E-17
glycine	rs444159	A	C	0.0207	0.0024	1.57E-17
glycine	rs796243	T	C	0.0207	0.0024	1.55E-17
glycine	rs1652323	T	G	0.0208	0.0024	1.26E-17
glycine	rs1652322	A	G	-0.0208	0.0024	1.25E-17
glycine	rs1652321	A	T	-0.0208	0.0024	1.23E-17
glycine	rs523817	A	G	0.0208	0.0024	1.22E-17
glycine	rs524652	A	G	0.0208	0.0024	1.21E-17
glycine	rs651797	A	G	-0.0208	0.0024	1.16E-17
glycine	rs550508	C	G	-0.0208	0.0024	1.16E-17
glycine	rs651289	A	C	-0.0208	0.0024	1.15E-17
glycine	rs1346711	T	C	0.0208	0.0024	1.14E-17
glycine	rs1657865	A	T	-0.0208	0.0024	1.13E-17
glycine	rs395345	A	G	0.0209	0.0024	1.07E-17
glycine	rs398665	A	G	0.0209	0.0024	1.06E-17
glycine	rs2164709	C	G	-0.0209	0.0024	1.04E-17
glycine	rs1652318	A	T	-0.0209	0.0024	1.02E-17
glycine	rs1437374	T	C	-0.0209	0.0024	1.01E-17
glycine	rs1370349	T	C	-0.0209	0.0024	9.94E-18
glycine	rs1370348	T	C	-0.0209	0.0024	9.91E-18

glycine	rs1370347	A	G	0.0209	0.0024	9.89E-18
glycine	rs319709	A	G	0.0209	0.0024	9.38E-18
glycine	rs319708	A	G	-0.0209	0.0024	9.27E-18
glycine	rs319707	T	C	-0.0209	0.0024	9.19E-18
glycine	rs319706	T	C	-0.0209	0.0024	8.96E-18
glycine	rs319705	A	T	-0.0209	0.0024	8.89E-18
glycine	rs4461202	T	C	0.0208	0.0024	8.53E-18
glycine	rs1652312	T	C	0.0209	0.0024	8.34E-18
glycine	rs319703	C	G	-0.0209	0.0024	8.32E-18
glycine	rs192926	A	C	0.0209	0.0024	8.32E-18
glycine	rs11692169	T	C	-0.0269	0.0031	6.27E-18
glycine	rs1367053	T	C	0.0217	0.0025	1.65E-18
glycine	rs2719966	A	C	0.0216	0.0024	7.32E-19
glycine	rs13401425	A	G	-0.0215	0.0024	6.88E-19
glycine	rs10932363	A	C	-0.0277	0.0031	5.09E-19
glycine	rs7424145	A	G	0.0438	0.0049	1.97E-19
glycine	rs4130275	T	G	0.0297	0.0032	4.12E-20
glycine	rs10490328	A	G	-0.0277	0.003	3.59E-20
glycine	rs986293	A	G	0.0276	0.003	2.85E-20
glycine	rs13404853	A	C	-0.0285	0.003	2.84E-21
glycine	rs7586705	T	C	0.0294	0.0031	1.96E-21
glycine	rs12328639	A	G	0.0317	0.0033	8.50E-22
glycine	rs12474633	T	C	-0.0286	0.003	5.98E-22
glycine	rs11901633	T	C	-0.0302	0.0031	3.31E-22
glycine	rs12613630	A	T	0.0298	0.003	1.95E-23
glycine	rs6758081	A	G	0.0314	0.003	5.76E-25
glycine	rs11903219	A	G	-0.0328	0.0032	5.33E-25
glycine	rs6435586	A	G	0.0313	0.003	4.28E-25

glycine	rs11687290	A	G	0.031	0.003	3.15E-25
glycine	rs10932362	A	G	-0.0327	0.0032	2.73E-25
glycine	rs4142152	T	C	-0.0315	0.003	1.30E-25
glycine	rs11694063	T	C	-0.0334	0.0032	9.54E-26
glycine	rs4142153	C	G	0.0315	0.003	5.33E-26
glycine	rs12623361	T	C	-0.0318	0.003	4.49E-26
glycine	rs1016395	T	C	-0.0343	0.0032	3.36E-26
glycine	rs11677843	T	C	-0.0335	0.0032	3.13E-26
glycine	rs1024897	C	G	-0.0343	0.0032	1.46E-26
glycine	rs9288420	A	G	-0.032	0.003	1.45E-26
glycine	rs4142151	T	C	0.0318	0.003	1.40E-26
glycine	rs12470865	A	C	-0.0321	0.003	8.89E-27
glycine	rs2371019	T	G	0.0321	0.003	8.56E-27
glycine	rs13402741	C	G	0.0322	0.003	6.82E-27
glycine	rs2371022	A	G	-0.0322	0.003	6.73E-27
glycine	rs2371023	A	G	-0.0322	0.003	6.69E-27
glycine	rs2371025	T	C	0.0322	0.003	6.65E-27
glycine	rs13016820	A	G	-0.0322	0.003	6.63E-27
glycine	rs16844814	T	C	0.0322	0.003	6.59E-27
glycine	rs13415037	T	G	0.0322	0.003	6.57E-27
glycine	rs10445807	T	C	0.0322	0.003	6.56E-27
glycine	rs4467202	A	G	0.0322	0.003	6.54E-27
glycine	rs13028224	A	G	-0.0268	0.0025	5.24E-27
glycine	rs13021675	T	C	0.0346	0.0032	3.88E-27
glycine	rs12997044	T	C	0.0327	0.003	7.32E-28
glycine	rs1990797	C	G	-0.0356	0.0033	6.96E-28
glycine	rs13019835	C	G	-0.0275	0.0025	4.86E-28
glycine	rs17776067	T	C	0.0491	0.0044	1.55E-29

glycine	rs13019409	A	G	-0.028	0.0025	1.21E-29
glycine	rs7586579	A	T	0.0338	0.003	1.09E-29
glycine	rs17734739	T	C	0.0359	0.0032	8.82E-30
glycine	rs12618979	A	C	-0.0341	0.003	7.36E-30
glycine	rs16824978	T	C	-0.0354	0.0031	5.27E-30
glycine	rs6717111	T	C	-0.0343	0.003	1.76E-30
glycine	rs12469291	C	G	0.0345	0.003	6.29E-31
glycine	rs4630697	A	G	0.035	0.003	4.14E-31
glycine	rs13427306	T	C	0.0347	0.003	3.05E-31
glycine	rs4310999	A	G	0.0353	0.003	3.01E-31
glycine	rs17678015	T	C	-0.0351	0.003	2.76E-31
glycine	rs6726552	A	G	0.0287	0.0024	2.09E-32
glycine	rs6759308	T	G	0.029	0.0024	1.93E-33
glycine	rs13394054	A	G	-0.0291	0.0024	1.65E-33
glycine	rs10164524	A	G	0.0299	0.0025	1.07E-33
glycine	rs2887916	T	C	-0.0363	0.003	3.78E-34
glycine	rs17734637	C	G	0.0385	0.0032	3.76E-34
glycine	rs12996484	C	G	-0.0305	0.0025	4.81E-35
glycine	rs4603703	A	G	0.031	0.0025	4.37E-36
glycine	rs4337422	T	C	-0.031	0.0025	4.36E-36
glycine	rs4513234	T	C	0.031	0.0025	2.12E-36
glycine	rs12998006	T	C	-0.0382	0.003	1.97E-36
glycine	rs4338916	T	G	0.0315	0.0025	4.55E-37
glycine	rs12616954	A	C	0.0318	0.0025	7.06E-38
glycine	rs4673558	T	C	0.0392	0.003	1.30E-38
glycine	rs4673545	A	C	-0.0386	0.003	1.00E-38
glycine	rs986294	A	G	0.0397	0.003	9.19E-39
glycine	rs4673559	A	G	-0.0397	0.0031	8.96E-39

glycine	rs1437370	T	C	0.0321	0.0025	4.84E-39
glycine	rs4455102	A	G	-0.0325	0.0025	1.91E-39
glycine	rs12465522	T	G	-0.0327	0.0025	6.50E-40
glycine	rs17775871	A	G	-0.0514	0.0038	6.35E-42
glycine	rs4672596	T	C	-0.0342	0.0024	9.10E-46
glycine	rs1558935	T	C	0.0354	0.0025	6.19E-46
glycine	rs2887915	T	C	-0.035	0.0024	2.51E-46
glycine	rs957749	A	G	0.0362	0.0025	3.51E-47
glycine	rs2160847	T	C	-0.0523	0.0036	1.09E-47
glycine	rs13422990	A	G	-0.0362	0.0025	4.48E-48
glycine	rs13000755	T	G	-0.0361	0.0025	4.30E-48
glycine	rs2371028	A	C	-0.0366	0.0025	1.20E-48
glycine	rs13006513	A	G	0.0366	0.0025	1.13E-48
glycine	rs10490320	T	C	0.0362	0.0024	1.71E-49
glycine	rs12478788	A	G	0.0374	0.0025	9.62E-52
glycine	rs7684	T	G	0.0449	0.0029	6.43E-53
glycine	rs11887861	A	C	-0.0376	0.0024	1.46E-53
glycine	rs2371015	T	C	-0.0375	0.0024	1.45E-53
glycine	rs13386028	A	C	-0.0382	0.0024	3.64E-56
glycine	rs10167685	A	T	0.0385	0.0024	1.99E-57
glycine	rs13000743	A	G	0.0395	0.0025	2.96E-58
glycine	rs2287413	C	G	-0.0531	0.0033	1.08E-58
glycine	rs2371034	A	G	0.0397	0.0025	1.01E-58
glycine	rs2193616	A	C	0.0391	0.0024	1.00E-58
glycine	rs10211079	C	G	-0.0391	0.0024	1.00E-58
glycine	rs1024898	A	G	-0.0397	0.0025	9.94E-59
glycine	rs10932350	A	G	0.0391	0.0024	9.27E-59
glycine	rs4517917	T	C	0.0391	0.0024	9.26E-59

glycine	rs12473077	C	G	-0.0392	0.0024	8.34E-59
glycine	rs1024896	A	G	0.0398	0.0025	7.08E-59
glycine	rs12998879	A	G	0.0393	0.0024	4.68E-59
glycine	rs2371027	T	C	-0.0401	0.0025	3.57E-60
glycine	rs2371030	A	G	0.0403	0.0025	2.27E-60
glycine	rs6711167	A	T	0.0538	0.0033	2.01E-60
glycine	rs2111713	A	G	0.0398	0.0024	1.21E-60
glycine	rs10490327	A	G	0.0539	0.0033	9.50E-61
glycine	rs2193618	T	C	-0.0407	0.0025	3.98E-61
glycine	rs10184528	A	T	-0.0404	0.0024	1.40E-62
glycine	rs4672590	C	G	0.0404	0.0024	1.40E-62
glycine	rs10211086	C	G	-0.0404	0.0024	1.40E-62
glycine	rs2216403	T	G	0.0404	0.0024	1.39E-62
glycine	rs4673548	T	C	-0.0405	0.0024	1.28E-62
glycine	rs4560045	A	T	0.0546	0.0031	7.51E-71
glycine	rs12613336	T	C	-0.0552	0.0031	2.46E-72
glycine	rs10932355	A	G	-0.0568	0.0031	7.00E-75
glycine	rs10172053	T	G	-0.0608	0.0031	5.08E-84
glycine	rs7421152	A	T	-0.0609	0.0031	1.57E-84
glycine	rs2216405	A	G	-0.061	0.0031	2.31E-85
glycine	rs10490325	C	G	-0.0615	0.0031	3.73E-86
glycine	rs16844825	A	G	-0.0605	0.0031	1.60E-86
glycine	rs4673546	T	C	0.0605	0.0031	1.57E-86
glycine	rs10490322	T	C	0.0616	0.0031	9.96E-88
glycine	rs10490323	A	G	0.0616	0.0031	9.96E-88
glycine	rs3815630	T	C	-0.0616	0.0031	9.95E-88
glycine	rs16844862	T	C	0.0616	0.0031	9.90E-88
glycine	rs10206976	T	G	0.0621	0.0031	9.61E-88

glycine	rs4513233	A	G	0.0621	0.0031	7.06E-88
glycine	rs16844874	T	C	-0.0621	0.0031	7.04E-88
glycine	rs2193617	A	G	0.0611	0.0031	3.48E-88
glycine	rs11680929	A	G	0.0622	0.0031	2.01E-89
glycine	rs10490324	T	C	0.0622	0.0031	1.98E-89
glycine	rs16844839	T	C	0.0636	0.0031	6.45E-91
glycine	rs4673553	T	G	-0.0556	0.0024	#####
glycine	rs715	T	C	-0.076	0.0029	#####
glycochenodeoxycholate	rs6442057	A	G	-0.0349	0.0079	9.51E-06
glycochenodeoxycholate	rs803294	C	G	-0.0411	0.0093	9.21E-06
glycochenodeoxycholate	rs11709500	A	G	-0.0351	0.0079	9.03E-06
glycochenodeoxycholate	rs10757367	T	C	0.0874	0.0197	8.89E-06
glycochenodeoxycholate	rs9583493	A	C	0.0344	0.0077	8.34E-06
glycochenodeoxycholate	rs982503	T	C	0.0404	0.009	7.75E-06
glycochenodeoxycholate	rs7991229	T	G	-0.0316	0.0071	7.38E-06
glycochenodeoxycholate	rs10030498	A	T	0.0473	0.0105	6.26E-06
glycochenodeoxycholate	rs7645550	T	C	-0.0322	0.0071	5.84E-06
glycochenodeoxycholate	rs982502	T	C	-0.0411	0.0091	5.75E-06
glycochenodeoxycholate	rs12456097	A	G	-0.0395	0.0086	4.75E-06
glycochenodeoxycholate	rs1105842	A	C	-0.048	0.0105	4.44E-06
glycochenodeoxycholate	rs6853031	T	C	0.0484	0.0105	3.97E-06
glycochenodeoxycholate	rs7664170	A	G	-0.0484	0.0105	3.96E-06
glycochenodeoxycholate	rs7672318	C	G	0.0484	0.0105	3.93E-06
glycochenodeoxycholate	rs11945712	A	G	-0.0484	0.0105	3.92E-06
glycochenodeoxycholate	rs2012541	T	C	0.0484	0.0105	3.91E-06
glycochenodeoxycholate	rs1387955	T	C	-0.0484	0.0105	3.90E-06
glycochenodeoxycholate	rs1602290	A	G	0.0488	0.0105	3.25E-06
glycochenodeoxycholate	rs2044048	A	G	-0.0417	0.0089	2.63E-06

glycochenodeoxycholate	rs2078391	T	G	-0.0331	0.007	2.56E-06
glycochenodeoxycholate	rs9551641	T	C	-0.1241	0.0262	2.24E-06
glycochenodeoxycholate	rs7814949	A	T	-0.1435	0.03	1.73E-06
glycochenodeoxycholate	rs11768833	T	C	0.0375	0.0078	1.68E-06
glycochenodeoxycholate	rs7793797	A	T	0.038	0.0078	1.26E-06
glycochenodeoxycholate	rs9384500	T	C	0.0773	0.015	2.42E-07
glycochenodeoxycholate	rs9297619	A	G	0.1272	0.0244	1.93E-07
glycochenodeoxycholate	rs9397973	T	C	0.0819	0.0155	1.39E-07
glycochenodeoxycholate	rs4869890	A	G	0.0796	0.015	1.06E-07
glycochenodeoxycholate	rs9384502	T	G	-0.0785	0.0138	1.34E-08
glycochenodeoxycholate	rs4870490	A	G	0.0857	0.0145	3.14E-09
glycocholate	rs3807360	A	G	0.0735	0.0164	7.44E-06
glycocholate	rs2227728	A	G	-0.1005	0.0224	7.34E-06
glycocholate	rs2718107	A	C	0.0257	0.0057	5.85E-06
glycocholate	rs17096653	A	G	-0.0456	0.01	5.53E-06
glycocholate	rs795543	T	C	-0.025	0.0055	5.19E-06
glycocholate	rs9298671	C	G	-0.0336	0.0073	3.86E-06
glycocholate	rs12590118	T	G	-0.0463	0.01	3.84E-06
glycocholate	rs9914239	A	G	-0.1056	0.0228	3.64E-06
glycocholate	rs7837471	A	G	0.3403	0.0731	3.27E-06
glycocholate	rs7874807	A	G	-0.0344	0.0073	2.25E-06
glycocholate	rs7029496	A	G	-0.0346	0.0073	1.96E-06
glycocholate	rs2889036	C	G	-0.0345	0.0072	1.83E-06
glycocholate	rs17807835	A	G	0.0343	0.0072	1.71E-06
glycocholate	rs4740517	A	G	-0.0353	0.0073	1.23E-06
glycocholate	rs10738265	T	C	0.0354	0.0073	1.13E-06
glycocholate	rs17107026	T	C	-0.0781	0.016	1.08E-06
glycodeoxycholate	rs6721368	T	G	-0.1268	0.0285	8.42E-06

glycodeoxycholate	rs12477733	T	C	0.127	0.0285	8.17E-06
glycodeoxycholate	rs708226	T	G	-0.0898	0.0199	6.34E-06
glycodeoxycholate	rs9301881	T	C	0.0593	0.0131	5.79E-06
glycodeoxycholate	rs4338010	T	C	-0.1084	0.0239	5.73E-06
glycodeoxycholate	rs3733541	A	C	-0.0832	0.0183	5.41E-06
glycodeoxycholate	rs17746543	A	G	-0.0883	0.0191	3.67E-06
glycodeoxycholate	rs7856830	T	C	-0.0891	0.0188	2.27E-06
glycodeoxycholate	rs2420201	A	G	0.1473	0.0309	1.90E-06
glycodeoxycholate	rs806784	T	C	-0.0952	0.0198	1.48E-06
glycodeoxycholate	rs6585252	C	G	-0.1538	0.0312	8.55E-07
hippurate	rs12449276	T	C	0.0267	0.006	9.83E-06
hippurate	rs2102	A	G	0.0425	0.0096	9.45E-06
hippurate	rs741260	A	G	0.0268	0.0061	9.41E-06
hippurate	rs4524676	A	G	-0.0278	0.0063	9.31E-06
hippurate	rs554900	A	G	0.062	0.014	9.28E-06
hippurate	rs6739717	T	C	0.0441	0.0099	8.94E-06
hippurate	rs7295182	T	C	-0.0269	0.006	8.85E-06
hippurate	rs7102716	A	T	0.027	0.006	7.85E-06
hippurate	rs17149511	T	G	0.0349	0.0078	7.69E-06
hippurate	rs3825932	T	C	-0.0234	0.0052	7.58E-06
hippurate	rs11535191	A	G	0.0277	0.0062	7.48E-06
hippurate	rs1878105	T	C	0.0966	0.0216	7.38E-06
hippurate	rs11856301	T	C	-0.0234	0.0052	6.86E-06
hippurate	rs4779112	A	G	0.0266	0.0059	6.42E-06
hippurate	rs12660977	T	G	0.0405	0.0089	5.67E-06
hippurate	rs11072815	A	G	-0.0237	0.0052	5.14E-06
hippurate	rs3892034	A	T	-0.0273	0.006	4.75E-06
hippurate	rs10847782	A	G	0.0277	0.006	4.28E-06

hippurate	rs1343188	T	C	-0.0263	0.0057	4.17E-06
hippurate	rs9520786	A	G	0.083	0.018	4.01E-06
hippurate	rs12466421	A	G	0.0279	0.006	3.96E-06
hippurate	rs11638844	A	G	-0.0251	0.0052	1.62E-06
hippurate	rs10400902	A	G	-0.0251	0.0052	1.62E-06
hippurate	rs475322	A	C	0.117	0.024	1.09E-06
hippurate	rs191375	A	G	0.088	0.018	1.01E-06
hippurate	rs4338651	A	G	-0.088	0.018	1.01E-06
hippurate	rs4238259	T	C	0.088	0.018	1.01E-06
histidine	rs3775940	A	T	-0.0052	0.0012	9.89E-06
histidine	rs13328050	T	G	0.0053	0.0012	9.70E-06
histidine	rs6840802	C	G	-0.0052	0.0012	9.68E-06
histidine	rs11734783	T	C	-0.0085	0.0019	9.45E-06
histidine	rs4288369	C	G	-0.0453	0.0102	9.31E-06
histidine	rs12498956	A	C	0.0052	0.0012	8.90E-06
histidine	rs6449171	T	C	-0.0052	0.0012	8.61E-06
histidine	rs7375587	A	T	-0.0053	0.0012	8.52E-06
histidine	rs13120348	C	G	0.0052	0.0012	8.09E-06
histidine	rs9994266	A	G	0.0053	0.0012	7.30E-06
histidine	rs4312757	A	T	0.0053	0.0012	7.13E-06
histidine	rs4314284	T	C	0.0053	0.0012	6.25E-06
histidine	rs10009493	C	G	-0.0084	0.0019	6.06E-06
histidine	rs11735668	C	G	-0.0083	0.0018	3.94E-06
histidine	rs4768741	C	G	-0.015	0.0032	3.52E-06
histidine	rs17418478	A	G	0.0089	0.0019	3.42E-06
histidine	rs10805346	T	C	-0.0055	0.0012	3.26E-06
histidine	rs6449213	T	C	-0.0091	0.0019	2.33E-06
histidine	rs1527683	T	C	0.0061	0.0013	2.17E-06

histidine	rs2176664	T	C	-0.0059	0.0012	2.03E-06
histidine	rs11731652	T	C	-0.0086	0.0018	1.91E-06
histidine	rs12509714	C	G	0.0056	0.0012	1.83E-06
histidine	rs715	T	C	0.0059	0.0012	1.65E-06
histidine	rs17406107	T	G	-0.0089	0.0018	1.21E-06
histidine	rs1978274	T	G	-0.009	0.0018	9.98E-07
histidine	rs929575	C	G	-0.009	0.0018	9.65E-07
histidine	rs17389602	A	T	0.009	0.0018	8.48E-07
histidine	rs4697957	A	G	-0.009	0.0018	7.12E-07
histidine	rs2868937	T	C	0.009	0.0018	7.04E-07
histidine	rs4385059	T	C	-0.0093	0.0019	6.77E-07
histidine	rs887732	C	G	0.0091	0.0018	6.62E-07
histidine	rs11735543	T	G	0.0095	0.0019	4.14E-07
histidine	rs7014133	A	G	-0.0561	0.0109	2.74E-07
histidine	rs4481233	T	C	0.0098	0.0019	2.49E-07
histidine	rs11723439	T	C	0.01	0.0019	1.07E-07
histidine	rs938558	A	G	-0.0066	0.0012	5.96E-08
histidine	rs7675964	T	C	0.0067	0.0012	3.74E-08
histidine	rs3733588	A	G	-0.0072	0.0012	9.56E-09
histidine	rs4529048	A	C	-0.0071	0.0012	7.61E-09
histidine	rs4697701	A	G	0.0072	0.0012	5.19E-09
histidine	rs6855911	A	G	-0.0076	0.0013	2.87E-09
histidine	rs7663032	T	C	-0.0073	0.0012	2.84E-09
histidine	rs3775948	C	G	-0.0073	0.0012	2.44E-09
histidine	rs13129697	T	G	-0.0073	0.0012	2.34E-09
histidine	rs10939650	T	C	-0.0074	0.0012	2.00E-09
histidine	rs1014290	A	G	-0.0074	0.0012	1.81E-09
histidine	rs7660895	A	G	0.0075	0.0012	1.13E-09

histidine	rs737267	T	G	0.0077	0.0012	7.14E-10
histidine	rs7670751	A	C	-0.0077	0.0012	5.12E-10
histidine	rs5028843	A	G	0.0078	0.0012	4.19E-10
histidine	rs10017305	T	C	-0.0079	0.0012	2.32E-10
histidine	rs10489070	C	G	-0.0079	0.0013	2.30E-10
histidine	rs4697913	T	C	0.008	0.0013	1.99E-10
histidine	rs12510549	T	C	-0.008	0.0012	1.13E-10
histidine	rs4698036	T	G	-0.0081	0.0012	8.50E-11
histidine	rs4643800	T	G	0.0083	0.0012	2.49E-11
histidine	rs874432	A	T	0.0085	0.0013	1.43E-11
histidine	rs10939723	T	G	0.0085	0.0013	1.34E-11
histidine	rs2024280	T	C	-0.0088	0.0013	1.07E-11
histidine	rs13113918	A	G	0.0085	0.0013	1.05E-11
histidine	rs7669607	T	C	0.0085	0.0013	1.04E-11
histidine	rs13111638	T	C	0.0088	0.0013	6.96E-12
histidine	rs4698050	T	C	0.0085	0.0012	6.77E-12
histidine	rs12498742	A	G	-0.0086	0.0012	6.02E-12
histidine	rs11736389	T	C	-0.0085	0.0012	5.46E-12
histidine	rs4697933	A	G	0.0087	0.0013	4.09E-12
histidine	rs4640669	A	G	0.0087	0.0013	3.43E-12
histidine	rs10805364	A	G	-0.0087	0.0012	3.03E-12
histidine	rs4697714	A	T	0.0088	0.0013	2.55E-12
histidine	rs7681212	C	G	-0.0087	0.0012	2.26E-12
histidine	rs10938772	A	G	-0.0087	0.0012	1.87E-12
histidine	rs12509955	T	C	0.0088	0.0012	1.54E-12
histidine	rs9991278	T	C	0.0088	0.0013	1.54E-12
histidine	rs4698029	C	G	-0.0089	0.0013	1.42E-12
histidine	rs10022911	A	G	-0.0089	0.0012	9.13E-13

histidine	rs12511337	A	G	0.0089	0.0013	8.86E-13
histidine	rs17198547	T	C	0.009	0.0013	8.19E-13
histidine	rs4698014	T	C	0.0089	0.0012	6.95E-13
histidine	rs11729318	C	G	0.0091	0.0013	5.78E-13
histidine	rs714436	A	C	-0.0091	0.0013	4.86E-13
histidine	rs4698023	A	G	-0.009	0.0012	4.84E-13
histidine	rs4698031	A	G	-0.0091	0.0013	4.65E-13
histidine	rs17418533	T	C	-0.0091	0.0013	4.63E-13
histidine	rs11722185	C	G	-0.0091	0.0013	4.62E-13
histidine	rs17420080	T	C	0.0091	0.0013	4.60E-13
histidine	rs4698009	T	C	-0.009	0.0012	4.31E-13
histidine	rs4697700	C	G	0.0092	0.0013	2.25E-13
histidine	rs7671266	T	C	0.0092	0.0013	2.19E-13
histidine	rs4698040	T	C	0.0093	0.0013	1.46E-13
histidine	rs7680126	A	G	-0.0094	0.0013	7.05E-14
histidine	rs734553	T	G	-0.0094	0.0013	6.50E-14
histidine	rs16890979	T	C	0.0095	0.0013	5.88E-14
histidine	rs4475146	A	C	0.0095	0.0013	3.96E-14
histidine	rs938564	T	G	-0.0095	0.0013	3.63E-14
histidine	rs11942223	T	C	-0.0095	0.0013	3.59E-14
histidine	rs9998811	A	G	0.0095	0.0013	3.43E-14
histidine	rs6832439	A	G	0.0096	0.0013	3.20E-14
histidine	rs13145758	A	G	-0.0096	0.0013	3.12E-14
histidine	rs938554	C	G	0.0096	0.0013	2.98E-14
histidine	rs938555	A	G	0.0096	0.0013	2.93E-14
histidine	rs6838021	T	C	0.0096	0.0013	2.72E-14
histidine	rs13131257	T	C	0.0096	0.0013	2.53E-14
histidine	rs11722229	A	C	-0.0096	0.0013	2.52E-14

histidine	rs6449173	T	G	-0.0096	0.0013	2.40E-14
histidine	rs7376960	A	G	-0.0096	0.0013	2.19E-14
histidine	rs7442295	A	G	-0.0096	0.0013	2.06E-14
histidine	rs7439210	C	G	-0.0097	0.0013	1.79E-14
histidine	rs1071988	A	G	-0.0097	0.0013	1.78E-14
histidine	rs16868246	C	G	0.0097	0.0013	1.78E-14
hydrocinnamate	rs8065259	T	C	0.1821	0.0411	9.43E-06
hydrocinnamate	rs6891705	A	C	0.02	0.0045	9.37E-06
hydrocinnamate	rs987313	A	G	0.1845	0.0416	9.18E-06
hydrocinnamate	rs9402497	A	G	0.024	0.0054	8.93E-06
hydrocinnamate	rs763753	A	G	0.028	0.0063	8.88E-06
hydrocinnamate	rs11983172	A	G	-0.0326	0.0073	8.63E-06
hydrocinnamate	rs2441128	A	T	0.0239	0.0054	8.57E-06
hydrocinnamate	rs4772056	C	G	-0.034	0.0076	8.45E-06
hydrocinnamate	rs10946145	A	G	0.083	0.0186	8.06E-06
hydrocinnamate	rs10431948	A	G	0.02	0.0045	7.26E-06
hydrocinnamate	rs7714560	C	G	0.0201	0.0045	7.17E-06
hydrocinnamate	rs6497484	A	G	-0.0237	0.0053	6.65E-06
hydrocinnamate	rs584630	A	C	-0.0318	0.007	6.27E-06
hydrocinnamate	rs10493278	A	T	0.0243	0.0054	5.83E-06
hydrocinnamate	rs609236	C	G	0.028	0.0062	5.57E-06
hydrocinnamate	rs6851666	A	T	-0.0526	0.0114	4.06E-06
hydrocinnamate	rs12598584	A	C	-0.0285	0.0061	2.74E-06
hydrocinnamate	rs6458147	T	C	-0.0923	0.0195	2.29E-06
hydrocinnamate	rs11847947	T	C	-0.0217	0.0045	1.54E-06
hydrocinnamate	rs7197091	A	G	-0.0268	0.0053	4.68E-07
hydrocinnamate	rs9302387	A	C	-0.0224	0.0044	4.62E-07
hydrocinnamate	rs2188760	A	G	-0.0272	0.0054	4.61E-07

hydrocinnamate	rs6497495	A	G	-0.0313	0.0061	3.08E-07
hydrocinnamate	rs9365268	A	T	-0.1453	0.0282	2.47E-07
hydrocinnamate	rs4783532	C	G	0.0272	0.0052	2.24E-07
hydrocinnamate	rs9355342	A	G	0.1456	0.0281	2.19E-07
hydrocinnamate	rs6416613	C	G	0.0281	0.0054	2.09E-07
hydrocinnamate	rs9924303	A	G	0.0281	0.0054	2.09E-07
hydrocinnamate	rs6416615	C	G	0.0281	0.0054	2.09E-07
hydrocinnamate	rs7186293	A	G	0.0281	0.0054	2.09E-07
hydrocinnamate	rs8061692	T	G	-0.0281	0.0054	2.09E-07
hydrocinnamate	rs6497497	T	C	0.0281	0.0054	2.03E-07
hydrocinnamate	rs2012461	A	G	0.027	0.0052	2.02E-07
hydrocinnamate	rs7499477	T	G	-0.0282	0.0054	1.78E-07
hydrocinnamate	rs6416614	A	G	-0.0289	0.0054	9.22E-08
hydrocinnamate	rs6497496	T	C	-0.0297	0.0054	4.66E-08
hydrocinnamate	rs7498385	T	C	-0.0248	0.0045	3.09E-08
hydrocinnamate	rs7498473	A	G	-0.025	0.0045	2.63E-08
hydrocinnamate	rs1394678	T	C	-0.0295	0.0053	1.94E-08
hydrocinnamate	rs1505097	A	T	-0.0301	0.0053	1.29E-08
hydrocinnamate	rs7500220	A	G	-0.0326	0.0054	1.87E-09
hydrocinnamate	rs9923280	A	G	0.0281	0.0045	5.36E-10
hydrocinnamate	rs737900	A	C	0.0338	0.0054	4.87E-10
hydrocinnamate	rs2214195	A	C	0.0338	0.0054	4.86E-10
hydrocinnamate	rs6416611	T	C	0.0289	0.0046	2.00E-10
hydrocinnamate	rs6497490	T	G	-0.0477	0.0075	1.91E-10
hydrocinnamate	rs1394676	T	C	0.029	0.0045	1.58E-10
hydrocinnamate	rs9933872	A	G	-0.029	0.0045	1.57E-10
hydrocinnamate	rs4603548	A	G	-0.029	0.0045	1.57E-10
hydrocinnamate	rs1827711	A	G	0.029	0.0045	1.56E-10

hydrocinnamate	rs6497491	A	T	-0.029	0.0045	1.55E-10
hydrocinnamate	rs1532842	T	C	-0.029	0.0045	1.55E-10
hydrocinnamate	rs7193826	T	C	-0.029	0.0045	1.54E-10
hydrocinnamate	rs1505100	A	T	0.0294	0.0045	8.41E-11
hydrocinnamate	rs1700805	A	G	0.0298	0.0045	4.78E-11
hydrocinnamate	rs11647589	A	G	0.0303	0.0045	2.85E-11
hyodeoxycholate	rs13227290	A	G	-0.0412	0.0093	9.32E-06
hyodeoxycholate	rs8035357	T	C	-0.0462	0.0104	9.00E-06
hyodeoxycholate	rs16974947	A	G	-0.204	0.0459	8.91E-06
hyodeoxycholate	rs7276786	C	G	-0.0425	0.0095	8.39E-06
hyodeoxycholate	rs834767	A	G	-0.0309	0.0069	7.98E-06
hyodeoxycholate	rs16940092	T	C	-0.0501	0.0112	7.87E-06
hyodeoxycholate	rs940424	A	T	0.0353	0.0079	7.58E-06
hyodeoxycholate	rs9549759	T	C	0.0337	0.0075	7.25E-06
hyodeoxycholate	rs4515911	T	C	0.0318	0.007	6.52E-06
hyodeoxycholate	rs2708754	A	G	0.0312	0.0069	6.52E-06
hyodeoxycholate	rs7083799	A	G	0.0318	0.007	6.52E-06
hyodeoxycholate	rs7084667	T	C	-0.0318	0.0071	6.47E-06
hyodeoxycholate	rs6997473	A	G	-0.0729	0.0161	6.29E-06
hyodeoxycholate	rs6450853	A	G	-0.0316	0.007	5.73E-06
hyodeoxycholate	rs7539563	T	G	0.0397	0.0087	5.47E-06
hyodeoxycholate	rs10774496	A	G	0.0397	0.0087	5.39E-06
hyodeoxycholate	rs10280608	A	C	-0.0396	0.0087	4.96E-06
hyodeoxycholate	rs834766	T	C	0.032	0.007	4.90E-06
hyodeoxycholate	rs834765	A	G	0.0316	0.0069	4.79E-06
hyodeoxycholate	rs834768	T	C	0.0316	0.0069	4.77E-06
hyodeoxycholate	rs12527048	T	C	0.1239	0.027	4.61E-06
hyodeoxycholate	rs834769	C	G	0.0317	0.0069	4.42E-06

hyodeoxycholate	rs2055593	A	G	0.0364	0.0078	3.36E-06
hyodeoxycholate	rs12055668	C	G	0.0996	0.0213	3.02E-06
hyodeoxycholate	rs6024969	T	C	-0.3856	0.0825	2.97E-06
hyodeoxycholate	rs2524082	A	T	-0.0324	0.0069	2.88E-06
hyodeoxycholate	rs3769753	A	G	0.0439	0.0093	2.46E-06
hyodeoxycholate	rs1860585	A	G	-0.0674	0.0141	1.80E-06
hyodeoxycholate	rs10518972	T	C	0.0505	0.0105	1.35E-06
hyodeoxycholate	rs2409889	A	G	0.0427	0.0088	1.13E-06
hyodeoxycholate	rs17651499	A	G	0.1034	0.0211	9.13E-07
hyodeoxycholate	rs2484454	A	G	-0.1096	0.0222	7.71E-07
hyodeoxycholate	rs6957252	T	C	0.0739	0.0149	6.84E-07
hyodeoxycholate	rs11702247	T	C	-0.0438	0.0087	5.20E-07
hyodeoxycholate	rs11123677	A	G	-0.0436	0.0086	4.10E-07
hyodeoxycholate	rs10865015	C	G	-0.0444	0.0086	2.55E-07
hyodeoxycholate	rs7276515	T	C	-0.0454	0.0087	2.00E-07
hyodeoxycholate	rs10865016	A	G	0.0453	0.0086	1.36E-07
hyodeoxycholate	rs10954322	T	C	0.2208	0.0412	8.46E-08
indoleacetate	rs1886151	A	C	-0.0121	0.0027	9.95E-06
indoleacetate	rs1074900	A	T	-0.0121	0.0027	9.95E-06
indoleacetate	rs9533330	T	C	0.0121	0.0027	9.82E-06
indoleacetate	rs2166764	T	C	0.0123	0.0028	9.65E-06
indoleacetate	rs7209032	T	C	-0.0159	0.0036	9.45E-06
indoleacetate	rs4069668	T	C	-0.041	0.0093	9.41E-06
indoleacetate	rs7591238	T	C	0.0121	0.0027	9.32E-06
indoleacetate	rs17788495	A	G	0.0234	0.0053	9.29E-06
indoleacetate	rs2052633	A	C	0.0121	0.0027	9.15E-06
indoleacetate	rs12591854	A	G	0.1135	0.0256	8.89E-06
indoleacetate	rs2032965	T	G	-0.0122	0.0027	8.74E-06

indoleacetate	rs1458095	T	C	-0.0235	0.0053	8.74E-06
indoleacetate	rs11676415	T	C	-0.0122	0.0027	8.68E-06
indoleacetate	rs6742388	A	G	0.0122	0.0027	8.68E-06
indoleacetate	rs4668218	T	C	-0.0122	0.0027	8.68E-06
indoleacetate	rs1593240	A	G	0.0122	0.0027	8.68E-06
indoleacetate	rs2355342	A	G	-0.0122	0.0027	8.67E-06
indoleacetate	rs6705705	C	G	-0.0122	0.0027	8.67E-06
indoleacetate	rs397454	T	C	-0.0199	0.0045	8.36E-06
indoleacetate	rs1886152	A	G	0.0122	0.0027	8.34E-06
indoleacetate	rs1532842	T	C	-0.0156	0.0035	8.00E-06
indoleacetate	rs16994074	T	C	0.0199	0.0045	7.86E-06
indoleacetate	rs1700805	A	G	0.0156	0.0035	7.59E-06
indoleacetate	rs10244632	T	C	-0.0159	0.0035	7.16E-06
indoleacetate	rs1505097	A	T	-0.0158	0.0035	7.05E-06
indoleacetate	rs426434	T	C	0.0203	0.0045	6.99E-06
indoleacetate	rs1982406	A	G	-0.0159	0.0035	6.98E-06
indoleacetate	rs792935	A	C	-0.0165	0.0037	6.86E-06
indoleacetate	rs12855974	A	G	0.027	0.006	6.66E-06
indoleacetate	rs11043255	A	G	-0.0511	0.0113	6.20E-06
indoleacetate	rs2710692	A	C	-0.1504	0.0332	6.02E-06
indoleacetate	rs404632	T	C	-0.0202	0.0044	5.36E-06
indoleacetate	rs11043285	A	G	0.0417	0.0091	4.99E-06
indoleacetate	rs9548086	T	G	0.0125	0.0027	4.84E-06
indoleacetate	rs4144140	T	C	0.0125	0.0027	4.75E-06
indoleacetate	rs2002614	A	G	0.0651	0.0142	4.55E-06
indoleacetate	rs1013612	A	G	-0.0125	0.0027	4.48E-06
indoleacetate	rs9319010	A	G	0.1201	0.0262	4.44E-06
indoleacetate	rs12650902	T	C	0.0127	0.0027	3.76E-06

indoleacetate	rs13132322	T	C	0.0127	0.0027	3.75E-06
indoleacetate	rs4434291	A	G	-0.0127	0.0027	3.75E-06
indoleacetate	rs1547229	T	C	-0.0126	0.0027	3.52E-06
indoleacetate	rs6918479	A	G	-0.0127	0.0027	3.22E-06
indoleacetate	rs2494523	T	C	-0.014	0.003	3.06E-06
indoleacetate	rs6497491	A	T	-0.0164	0.0035	2.83E-06
indoleacetate	rs1827711	A	G	0.0164	0.0035	2.82E-06
indoleacetate	rs7193826	T	C	-0.0164	0.0035	2.82E-06
indoleacetate	rs4603548	A	G	-0.0164	0.0035	2.78E-06
indoleacetate	rs9933872	A	G	-0.0164	0.0035	2.74E-06
indoleacetate	rs1394676	T	C	0.0164	0.0035	2.66E-06
indoleacetate	rs4324578	C	G	0.013	0.0027	1.99E-06
indoleacetate	rs11242955	A	G	-0.013	0.0027	1.67E-06
indoleacetate	rs1394678	T	C	-0.0169	0.0035	1.57E-06
indoleacetate	rs11647589	A	G	0.017	0.0035	1.33E-06
indoleacetate	rs6593011	A	C	-0.0217	0.0044	1.02E-06
indoleacetate	rs6416611	T	C	0.0173	0.0035	9.37E-07
indoleacetate	rs11043286	T	C	0.057	0.0116	8.02E-07
indoleacetate	rs11650196	A	G	0.03	0.0061	7.59E-07
indoleacetate	rs7197091	A	G	-0.0178	0.0036	5.77E-07
indoleacetate	rs11771818	A	G	-0.026	0.0051	4.38E-07
indoleacetate	rs17634771	C	G	-0.0261	0.0051	4.03E-07
indoleacetate	rs289999	T	C	-0.018	0.0035	1.91E-07
indoleacetate	rs6497490	T	G	-0.0305	0.0055	3.49E-08
indoleacetate	rs10499696	A	G	0.0255	0.0044	9.22E-09
indoleacetate	rs17553791	T	C	-0.0267	0.0045	2.13E-09
indoleacetate	rs11575298	A	G	0.0274	0.0045	8.40E-10
indoleacetate	rs10268819	T	C	-0.0277	0.0045	5.00E-10

indoleacetate	rs1466163	A	G	-0.0278	0.0045	4.27E-10
indoleacetate	rs11575342	A	G	-0.0278	0.0045	4.23E-10
indoleacetate	rs7809234	A	T	0.0285	0.0045	1.60E-10
indolelactate	rs12880087	A	C	-0.0192	0.0043	9.90E-06
indolelactate	rs6794422	T	C	0.1706	0.0386	9.82E-06
indolelactate	rs2689672	T	G	0.0119	0.0027	9.50E-06
indolelactate	rs10480299	T	C	-0.0119	0.0027	9.16E-06
indolelactate	rs7703172	T	C	-0.019	0.0043	9.12E-06
indolelactate	rs866251	T	C	0.0156	0.0035	8.32E-06
indolelactate	rs7718152	A	G	0.0157	0.0035	8.15E-06
indolelactate	rs11623441	T	C	0.0121	0.0027	7.84E-06
indolelactate	rs11622516	T	C	0.0121	0.0027	7.84E-06
indolelactate	rs861305	A	C	-0.0157	0.0035	7.63E-06
indolelactate	rs2511986	C	G	0.0153	0.0034	7.63E-06
indolelactate	rs2932525	A	G	-0.0157	0.0035	7.55E-06
indolelactate	rs314702	T	C	0.0155	0.0035	7.53E-06
indolelactate	rs10759811	A	T	-0.0119	0.0027	7.03E-06
indolelactate	rs4784966	A	G	-0.0191	0.0042	7.01E-06
indolelactate	rs7204324	A	T	-0.0227	0.005	6.99E-06
indolelactate	rs9648355	A	G	0.0122	0.0027	6.78E-06
indolelactate	rs11644745	T	C	0.0191	0.0042	6.60E-06
indolelactate	rs11640977	T	C	-0.0191	0.0042	6.59E-06
indolelactate	rs2064381	A	T	-0.0119	0.0026	5.90E-06
indolelactate	rs967352	T	C	-0.068	0.015	5.81E-06
indolelactate	rs13191316	C	G	-0.0119	0.0026	5.65E-06
indolelactate	rs314709	A	G	0.0158	0.0035	5.27E-06
indolelactate	rs7854319	A	G	-0.0154	0.0034	4.62E-06
indolelactate	rs7708485	T	C	0.0197	0.0043	4.51E-06

indolelactate	rs4719964	A	G	-0.0123	0.0027	4.46E-06
indolelactate	rs314707	A	G	-0.0159	0.0035	4.43E-06
indolelactate	rs16890496	A	G	-0.0197	0.0043	4.38E-06
indolelactate	rs6885975	A	T	0.0197	0.0043	4.22E-06
indolelactate	rs4509036	A	C	-0.0197	0.0043	4.21E-06
indolelactate	rs10159475	A	G	0.0157	0.0034	4.09E-06
indolelactate	rs7720990	T	C	0.0197	0.0043	4.09E-06
indolelactate	rs7721164	T	C	0.0197	0.0043	4.00E-06
indolelactate	rs10988152	T	C	0.0158	0.0034	3.99E-06
indolelactate	rs10988151	A	G	0.0158	0.0034	3.94E-06
indolelactate	rs4784967	A	G	-0.0196	0.0042	3.94E-06
indolelactate	rs7805747	A	G	0.0131	0.0028	3.77E-06
indolelactate	rs4784054	A	G	0.0201	0.0043	3.64E-06
indolelactate	rs11644269	A	G	0.0201	0.0043	3.64E-06
indolelactate	rs6877640	T	G	-0.0199	0.0043	3.53E-06
indolelactate	rs11643959	T	G	-0.0234	0.0051	3.46E-06
indolelactate	rs7503709	T	C	-0.0129	0.0028	3.30E-06
indolelactate	rs1494650	A	G	0.0199	0.0043	3.28E-06
indolelactate	rs6896472	A	C	0.0201	0.0043	2.93E-06
indolelactate	rs6861955	C	G	-0.02	0.0043	2.81E-06
indolelactate	rs940008	A	G	0.0251	0.0054	2.64E-06
indolelactate	rs12526522	T	C	-0.0369	0.0078	2.55E-06
indolelactate	rs1494647	A	C	-0.0202	0.0043	2.35E-06
indolelactate	rs1494648	A	G	0.0204	0.0043	2.07E-06
indolelactate	rs10920539	A	T	-0.0126	0.0026	1.94E-06
indolelactate	rs7858732	A	G	0.016	0.0034	1.88E-06
indolelactate	rs16890493	A	C	-0.0203	0.0043	1.86E-06
indolelactate	rs6910570	A	G	0.0125	0.0026	1.84E-06

indolelactate	rs17073667	A	G	0.0856	0.018	1.84E-06
indolelactate	rs16890519	A	C	0.0204	0.0043	1.71E-06
indolelactate	rs7714330	T	C	0.021	0.0044	1.61E-06
indolelactate	rs8058151	A	T	-0.0206	0.0043	1.56E-06
indolelactate	rs11789878	T	G	-0.0166	0.0034	1.39E-06
indolelactate	rs2977995	A	G	-0.0162	0.0033	1.25E-06
indolelactate	rs2280843	A	G	-0.0163	0.0033	1.21E-06
indolelactate	rs8062792	A	G	0.0214	0.0044	1.19E-06
indolelactate	rs7033070	A	G	-0.0163	0.0033	1.16E-06
indolelactate	rs7860949	T	C	-0.0163	0.0033	1.14E-06
indolelactate	rs3829057	A	G	-0.0164	0.0034	1.13E-06
indolelactate	rs11646417	T	C	0.0216	0.0044	1.09E-06
indolelactate	rs7727858	A	G	-0.0205	0.0042	1.08E-06
indolelactate	rs2977996	A	G	0.0165	0.0034	1.05E-06
indolelactate	rs4489410	A	C	0.0164	0.0033	1.03E-06
indolelactate	rs10988134	T	C	-0.0165	0.0034	1.01E-06
indolelactate	rs11647808	A	C	0.0249	0.0051	8.57E-07
indolelactate	rs2280841	T	C	-0.0167	0.0034	7.01E-07
indolelactate	rs6478851	A	G	-0.0167	0.0034	6.61E-07
indolelactate	rs2417126	T	C	-0.0167	0.0034	6.53E-07
indolelactate	rs10988120	C	G	-0.0167	0.0034	6.44E-07
indolelactate	rs10988121	A	T	0.0167	0.0034	6.43E-07
indolelactate	rs10819442	C	G	0.0167	0.0034	6.43E-07
indolelactate	rs10118140	A	G	-0.0165	0.0033	6.35E-07
indolelactate	rs2280845	T	C	-0.0169	0.0033	4.45E-07
indolelactate	rs6073359	A	G	-0.0135	0.0027	4.29E-07
indolelactate	rs1055689	A	G	-0.0135	0.0027	4.26E-07
indolelactate	rs6478853	C	G	0.0171	0.0033	3.57E-07

indolelactate	rs2977998	T	C	-0.0174	0.0034	2.15E-07
indolelactate	rs2900269	T	G	0.0176	0.0034	1.73E-07
indolelactate	rs2259043	A	G	-0.0188	0.0034	4.30E-08
indolelactate	rs10760581	A	G	0.0151	0.0027	2.22E-08
indolelactate	rs941960	C	G	-0.0153	0.0027	9.30E-09
indolelactate	rs2759009	T	C	0.018	0.0027	2.27E-11
indolelactate	rs2805103	A	T	0.0179	0.0027	2.27E-11
indolelactate	rs1572912	T	C	0.018	0.0027	1.59E-11
indolelactate	rs2280842	C	G	-0.0185	0.0027	5.27E-12
indolelactate	rs2293968	A	G	0.0185	0.0027	5.11E-12
indolelactate	rs6478854	C	G	-0.0185	0.0027	4.91E-12
indolelactate	rs2293966	A	G	0.0185	0.0027	4.82E-12
indolelactate	rs10988125	A	G	-0.0186	0.0027	4.01E-12
indolelactate	rs3115874	C	G	0.0186	0.0027	3.98E-12
indolelactate	rs2997922	T	C	0.0186	0.0027	3.87E-12
indolelactate	rs2997913	T	C	0.0186	0.0027	3.75E-12
indolelactate	rs15676	A	G	0.0191	0.0027	1.33E-12
indolepropionate	rs9807015	T	C	0.0324	0.0073	9.56E-06
indolepropionate	rs4688940	A	G	-0.0167	0.0038	9.26E-06
indolepropionate	rs4582099	T	C	-0.0167	0.0038	9.19E-06
indolepropionate	rs2878559	T	C	-0.0167	0.0038	8.90E-06
indolepropionate	rs17138024	A	G	-0.0926	0.0208	8.58E-06
indolepropionate	rs11726867	A	G	0.0167	0.0038	8.57E-06
indolepropionate	rs13113867	A	G	-0.0167	0.0038	8.42E-06
indolepropionate	rs2369860	A	G	0.0169	0.0038	8.31E-06
indolepropionate	rs13399191	C	G	0.0369	0.0083	8.26E-06
indolepropionate	rs17476821	A	G	-0.0172	0.0039	8.08E-06
indolepropionate	rs11721882	C	G	-0.0168	0.0038	7.91E-06

indolepropionate	rs12208183	A	G	0.1718	0.0384	7.80E-06
indolepropionate	rs10499993	A	G	-0.0172	0.0039	7.77E-06
indolepropionate	rs17398720	A	G	0.0172	0.0038	7.50E-06
indolepropionate	rs13173207	A	G	0.0168	0.0037	7.35E-06
indolepropionate	rs900429	T	C	0.0215	0.0048	7.22E-06
indolepropionate	rs1995481	A	G	-0.1836	0.0409	7.16E-06
indolepropionate	rs1446585	A	G	-0.017	0.0038	7.10E-06
indolepropionate	rs11678481	T	C	0.0171	0.0038	6.30E-06
indolepropionate	rs4941973	A	T	0.0255	0.0056	6.25E-06
indolepropionate	rs11723177	A	G	0.0171	0.0038	5.75E-06
indolepropionate	rs2033172	A	G	0.0173	0.0038	5.37E-06
indolepropionate	rs7570971	A	C	0.0171	0.0038	5.27E-06
indolepropionate	rs13012539	T	G	-0.0172	0.0038	4.71E-06
indolepropionate	rs6840643	A	G	0.0173	0.0038	4.67E-06
indolepropionate	rs6062509	T	G	0.0174	0.0038	4.65E-06
indolepropionate	rs6011066	A	G	0.0174	0.0038	4.65E-06
indolepropionate	rs6957421	A	G	-0.0468	0.0102	4.57E-06
indolepropionate	rs1782804	T	G	-0.0301	0.0066	4.45E-06
indolepropionate	rs1561277	A	C	0.0175	0.0038	4.39E-06
indolepropionate	rs13138875	A	G	-0.0173	0.0038	4.26E-06
indolepropionate	rs7663337	T	G	-0.0173	0.0038	4.21E-06
indolepropionate	rs12612135	T	G	-0.0173	0.0038	4.14E-06
indolepropionate	rs2163270	C	G	-0.0173	0.0038	4.06E-06
indolepropionate	rs7561441	C	G	0.0173	0.0038	4.04E-06
indolepropionate	rs6957675	T	C	-0.0179	0.0039	3.51E-06
indolepropionate	rs2324600	T	C	0.0266	0.0057	3.47E-06
indolepropionate	rs11721811	T	C	0.0174	0.0038	3.42E-06
indolepropionate	rs6011040	A	G	-0.018	0.0038	2.72E-06

indolepropionate	rs12691889	A	C	0.0178	0.0038	2.25E-06
indolepropionate	rs16841364	A	C	-0.0179	0.0038	2.15E-06
indolepropionate	rs9636231	A	G	0.018	0.0038	2.13E-06
indolepropionate	rs4954419	C	G	-0.0179	0.0038	1.89E-06
indolepropionate	rs450932	T	C	-0.018	0.0038	1.60E-06
indolepropionate	rs377483	T	C	-0.018	0.0038	1.60E-06
indolepropionate	rs8045136	T	C	-0.0408	0.0084	1.20E-06
indolepropionate	rs8093526	T	C	0.0355	0.0073	1.02E-06
indolepropionate	rs1700804	T	C	-0.0406	0.0081	5.94E-07
indolepropionate	rs4783392	T	C	0.0192	0.0038	4.65E-07
indolepropionate	rs6497484	A	G	-0.0235	0.0045	1.93E-07
indolepropionate	rs9806821	A	T	-0.0422	0.0081	1.66E-07
indolepropionate	rs7194852	A	G	0.0437	0.0083	1.55E-07
indolepropionate	rs7186923	T	C	0.0437	0.0083	1.53E-07
indolepropionate	rs7194098	C	G	0.045	0.0083	7.25E-08
indolepropionate	rs8061692	T	G	-0.0267	0.0047	1.19E-08
indolepropionate	rs6497497	T	C	0.0272	0.0047	5.75E-09
indolepropionate	rs6497496	T	C	-0.0276	0.0047	4.98E-09
indolepropionate	rs6416613	C	G	0.0274	0.0047	4.64E-09
indolepropionate	rs6416614	A	G	-0.0274	0.0047	4.64E-09
indolepropionate	rs6416615	C	G	0.0274	0.0047	4.64E-09
indolepropionate	rs9924303	A	G	0.0274	0.0047	4.57E-09
indolepropionate	rs7186293	A	G	0.0274	0.0047	4.54E-09
indolepropionate	rs2188760	A	G	-0.0282	0.0047	1.70E-09
indolepropionate	rs7499477	T	G	-0.0286	0.0047	9.96E-10
indolepropionate	rs6497495	A	G	-0.0315	0.0047	1.86E-11
indolepropionate	rs2012461	A	G	0.0312	0.0044	2.26E-12
indolepropionate	rs4783532	C	G	0.0317	0.0045	1.85E-12

indolepropionate	rs737900	A	C	0.0335	0.0047	9.21E-13
indolepropionate	rs7500220	A	G	-0.034	0.0047	4.05E-13
indolepropionate	rs2214195	A	C	0.0342	0.0047	2.87E-13
indolepropionate	rs7498385	T	C	-0.0279	0.0038	1.34E-13
indolepropionate	rs7498473	A	G	-0.0281	0.0038	9.63E-14
indolepropionate	rs9302387	A	C	-0.0281	0.0037	4.28E-14
indolepropionate	rs12598584	A	C	-0.0354	0.0046	2.68E-14
indolepropionate	rs7197091	A	G	-0.0354	0.0046	1.05E-14
indolepropionate	rs1505097	A	T	-0.0369	0.0045	4.62E-16
indolepropionate	rs6497490	T	G	-0.0589	0.0068	6.26E-18
indolepropionate	rs11647589	A	G	0.0342	0.0038	4.33E-19
indolepropionate	rs6416611	T	C	0.0345	0.0038	2.22E-19
indolepropionate	rs9923280	A	G	0.0344	0.0038	1.72E-19
indolepropionate	rs1505100	A	T	0.0347	0.0038	5.98E-20
indolepropionate	rs1700805	A	G	0.035	0.0038	3.33E-20
indolepropionate	rs1394676	T	C	0.035	0.0038	3.31E-20
indolepropionate	rs9933872	A	G	-0.0351	0.0038	3.11E-20
indolepropionate	rs4603548	A	G	-0.0351	0.0038	3.03E-20
indolepropionate	rs1827711	A	G	0.0351	0.0038	2.94E-20
indolepropionate	rs6497491	A	T	-0.0351	0.0038	2.88E-20
indolepropionate	rs1532842	T	C	-0.0351	0.0038	2.87E-20
indolepropionate	rs7193826	T	C	-0.0351	0.0038	2.87E-20
indolepropionate	rs1394678	T	C	-0.0354	0.0038	1.70E-20
isoleucine	rs3812139	C	G	-0.0753	0.017	8.94E-06
isoleucine	rs9362223	A	G	-0.0765	0.0172	8.78E-06
isoleucine	rs4384764	A	G	-0.0568	0.0127	7.90E-06
isoleucine	rs7297956	C	G	0.0597	0.0134	7.69E-06
isoleucine	rs9344530	A	G	0.0771	0.0172	7.44E-06

isoleucine	rs11619892	T	C	0.1065	0.0237	7.09E-06
isoleucine	rs2845674	A	T	0.0471	0.0105	7.07E-06
isoleucine	rs17741813	T	C	0.538	0.1192	6.39E-06
isoleucine	rs11616655	A	G	-0.1069	0.0237	6.37E-06
isoleucine	rs11758849	T	G	-0.0508	0.0113	6.23E-06
isoleucine	rs7771860	T	C	0.0881	0.0195	6.10E-06
isoleucine	rs2846701	A	G	-0.0476	0.0105	5.92E-06
isoleucine	rs2846365	A	G	0.0476	0.0105	5.91E-06
isoleucine	rs2846704	A	G	0.0476	0.0105	5.79E-06
isoleucine	rs2846723	T	G	-0.0476	0.0105	5.76E-06
isoleucine	rs10489	A	C	0.1743	0.038	4.60E-06
isoleucine	rs1570310	T	C	-0.0751	0.0163	4.32E-06
isoleucine	rs10944142	T	C	-0.0554	0.012	4.15E-06
isoleucine	rs6933377	T	C	0.0504	0.0109	3.94E-06
isoleucine	rs7755958	C	G	0.0485	0.0105	3.93E-06
isoleucine	rs12663690	C	G	0.0513	0.0111	3.73E-06
isoleucine	rs13217384	C	G	-0.0534	0.0115	3.73E-06
isoleucine	rs6454486	T	C	0.0593	0.0128	3.46E-06
isoleucine	rs7749745	A	C	-0.0759	0.0162	2.93E-06
isoleucine	rs7760207	T	C	0.053	0.0113	2.82E-06
isoleucine	rs220411	A	G	0.0663	0.0141	2.59E-06
isoleucine	rs3770129	T	C	0.0964	0.0205	2.46E-06
isoleucine	rs9450325	T	C	0.0495	0.0105	2.41E-06
isoleucine	rs10455449	A	G	0.0526	0.0111	2.41E-06
isoleucine	rs9359656	T	C	-0.08	0.0169	2.38E-06
isoleucine	rs2166663	C	G	-0.0526	0.0111	2.33E-06
isoleucine	rs12208493	T	C	0.0524	0.0111	2.31E-06
isoleucine	rs9359654	A	G	0.0773	0.0164	2.26E-06

isoleucine	rs9362219	T	C	0.0774	0.0163	2.16E-06
isoleucine	rs12190598	C	G	-0.0526	0.0111	2.13E-06
isoleucine	rs1000634	A	T	-0.121	0.0255	2.09E-06
isoleucine	rs12664908	T	G	0.0811	0.0171	2.07E-06
isoleucine	rs10944169	A	G	-0.0526	0.0111	2.07E-06
isoleucine	rs1018184	T	G	0.0529	0.0111	1.88E-06
isoleucine	rs17224277	A	G	0.0951	0.0199	1.83E-06
isoleucine	rs16876529	T	C	0.0533	0.0111	1.77E-06
isoleucine	rs16876540	T	G	-0.0531	0.0111	1.70E-06
isoleucine	rs4707239	T	G	-0.0531	0.0111	1.70E-06
isoleucine	rs1962716	T	C	-0.0543	0.0113	1.66E-06
isoleucine	rs791856	A	G	-0.0532	0.0111	1.60E-06
isoleucine	rs12154056	A	G	-0.0534	0.0111	1.53E-06
isoleucine	rs7771342	A	C	-0.0534	0.0111	1.53E-06
isoleucine	rs1857964	A	T	0.0534	0.0111	1.53E-06
isoleucine	rs12213740	A	T	0.0533	0.0111	1.53E-06
isoleucine	rs7766645	T	G	0.0534	0.0111	1.53E-06
isoleucine	rs13213551	A	G	-0.0534	0.0111	1.53E-06
isoleucine	rs10944161	A	C	0.0534	0.0111	1.53E-06
isoleucine	rs1995688	A	G	-0.0534	0.0111	1.53E-06
isoleucine	rs7772384	C	G	-0.0534	0.0111	1.53E-06
isoleucine	rs12664335	T	C	0.0539	0.0112	1.49E-06
isoleucine	rs1335443	A	G	0.0502	0.0104	1.47E-06
isoleucine	rs11755048	A	T	0.0539	0.0112	1.44E-06
isoleucine	rs12213431	A	G	0.0542	0.0112	1.43E-06
isoleucine	rs7747897	A	G	0.0535	0.0111	1.40E-06
isoleucine	rs12203457	T	C	0.0536	0.0111	1.40E-06
isoleucine	rs11755864	A	G	0.0539	0.0112	1.40E-06

isoleucine	rs7747824	A	G	-0.0535	0.0111	1.40E-06
isoleucine	rs12213149	A	G	-0.0536	0.0111	1.38E-06
isoleucine	rs10944163	T	C	0.0536	0.0111	1.38E-06
isoleucine	rs12201735	C	G	0.0536	0.0111	1.38E-06
isoleucine	rs2660576	A	T	-0.0536	0.0111	1.38E-06
isoleucine	rs12661204	T	C	-0.0536	0.0111	1.38E-06
isoleucine	rs1337844	T	C	0.0536	0.0111	1.38E-06
isoleucine	rs10944168	T	C	-0.0536	0.0111	1.38E-06
isoleucine	rs1582127	T	C	-0.0538	0.0111	1.31E-06
isoleucine	rs10498958	A	G	0.0537	0.0111	1.26E-06
isoleucine	rs12663651	T	G	0.0539	0.0111	1.25E-06
isoleucine	rs12200330	A	G	-0.0538	0.0111	1.24E-06
isoleucine	rs2812972	A	G	0.0538	0.0111	1.24E-06
isoleucine	rs7795118	T	C	0.0905	0.0186	1.21E-06
isoleucine	rs1999852	T	C	-0.054	0.0111	1.20E-06
isoleucine	rs9362273	A	G	-0.1233	0.0254	1.19E-06
isoleucine	rs955197	T	G	-0.0544	0.0111	1.02E-06
isoleucine	rs955196	A	C	0.0544	0.0111	1.02E-06
isoleucine	rs1337850	A	G	-0.0544	0.0111	1.01E-06
isoleucine	rs11758508	T	C	-0.0544	0.0111	1.01E-06
isoleucine	rs12199784	C	G	0.0545	0.0111	9.94E-07
isoleucine	rs12199516	A	G	-0.0545	0.0111	9.90E-07
isoleucine	rs12212733	A	G	0.0545	0.0111	9.88E-07
isoleucine	rs2121594	T	C	-0.0549	0.0112	9.73E-07
isoleucine	rs6454513	A	C	0.0546	0.0111	9.49E-07
isoleucine	rs17077586	A	G	0.1032	0.021	9.20E-07
isoleucine	rs12196411	T	C	-0.0548	0.0112	9.13E-07
isoleucine	rs12215037	A	G	0.0547	0.0111	8.99E-07

isoleucine	rs7739241	A	G	0.0551	0.0112	8.74E-07
isoleucine	rs12202712	A	T	-0.0551	0.0112	8.74E-07
isoleucine	rs12198061	T	C	0.0554	0.0112	7.85E-07
isoleucine	rs12665464	C	G	0.0554	0.0112	7.84E-07
isoleucine	rs11752180	T	C	0.0554	0.0112	7.84E-07
isoleucine	rs13219504	A	G	-0.0554	0.0112	7.83E-07
isoleucine	rs12196377	A	G	0.0554	0.0112	7.83E-07
isoleucine	rs12209668	T	C	-0.0554	0.0112	7.83E-07
isoleucine	rs1577917	T	C	-0.0556	0.0113	7.70E-07
isoleucine	rs1415753	T	C	-0.0551	0.0111	7.60E-07
isoleucine	rs11752223	T	C	0.0556	0.0112	7.03E-07
isoleucine	rs2084294	A	G	0.0556	0.0112	7.03E-07
isoleucine	rs3900313	A	G	0.0553	0.0111	6.76E-07
isoleucine	rs1414199	T	C	0.0553	0.0111	6.76E-07
isoleucine	rs1447160	A	G	-0.0553	0.0111	6.76E-07
isoleucine	rs2324839	T	C	0.0553	0.0111	6.76E-07
isoleucine	rs12216074	C	G	0.0553	0.0111	6.63E-07
isoleucine	rs3857480	T	C	0.0555	0.0111	6.07E-07
isoleucine	rs7453105	A	C	0.0554	0.0111	5.96E-07
isoleucine	rs9362210	T	C	-0.06	0.012	5.90E-07
isoleucine	rs1414201	A	G	-0.0555	0.0111	5.82E-07
isoleucine	rs1545376	C	G	0.0555	0.0111	5.60E-07
isoleucine	rs12212560	A	G	-0.0616	0.0123	5.26E-07
isoleucine	rs11755642	A	C	0.0557	0.0111	4.89E-07
isoleucine	rs9353324	A	C	-0.109	0.0216	4.79E-07
isoleucine	rs9342047	A	G	0.111	0.022	4.68E-07
isoleucine	rs1470531	T	C	0.0562	0.0111	4.39E-07
isoleucine	rs4142546	T	G	-0.0562	0.0111	4.25E-07

isoleucine	rs7738777	T	C	0.1114	0.022	4.11E-07
isoleucine	rs9444371	T	C	0.1115	0.022	4.10E-07
isoleucine	rs12192546	A	G	-0.0565	0.0111	3.91E-07
isoleucine	rs12213331	T	C	0.0564	0.0111	3.81E-07
isoleucine	rs7766284	T	C	-0.1093	0.0215	3.77E-07
isoleucine	rs6906618	C	G	-0.1093	0.0215	3.77E-07
isoleucine	rs6919244	A	G	-0.1129	0.0222	3.76E-07
isoleucine	rs7760309	A	G	0.1096	0.0215	3.53E-07
isoleucine	rs7775016	A	G	-0.1118	0.0219	3.28E-07
isoleucine	rs6912150	A	G	0.112	0.0219	3.14E-07
isoleucine	rs1447157	T	C	-0.1133	0.0222	3.13E-07
isoleucine	rs9450383	A	G	-0.1141	0.0223	3.04E-07
isoleucine	rs9362271	A	G	-0.1183	0.0231	3.00E-07
isoleucine	rs6901489	A	G	-0.114	0.0222	2.96E-07
isoleucine	rs9344562	T	C	0.114	0.0222	2.87E-07
isoleucine	rs9351066	T	C	0.1112	0.0216	2.78E-07
isoleucine	rs9353339	A	G	-0.1125	0.0219	2.76E-07
isoleucine	rs9450317	A	C	0.1119	0.0218	2.69E-07
isoleucine	rs7745560	A	T	0.1122	0.0217	2.32E-07
isoleucine	rs6454487	T	C	-0.0574	0.0111	2.26E-07
isoleucine	rs3812133	T	C	-0.0596	0.0115	2.20E-07
isoleucine	rs9450313	A	T	-0.1122	0.0216	2.11E-07
isoleucine	rs7742201	A	G	0.0597	0.0115	2.06E-07
isoleucine	rs9450294	A	G	0.1118	0.0215	2.01E-07
isoleucine	rs6902904	T	C	0.1137	0.0217	1.73E-07
isoleucine	rs9344516	A	G	0.0634	0.0121	1.72E-07
isoleucine	rs10944137	T	C	-0.0582	0.0111	1.71E-07
isoleucine	rs6913634	T	C	0.1138	0.0218	1.68E-07

isoleucine	rs12190603	A	C	-0.0583	0.0111	1.57E-07
isoleucine	rs9359674	A	T	0.1142	0.0218	1.57E-07
isoleucine	rs12193904	T	C	-0.0584	0.0111	1.53E-07
isoleucine	rs2225754	A	G	-0.0584	0.0111	1.53E-07
isoleucine	rs13207173	T	C	0.0584	0.0111	1.53E-07
isoleucine	rs12212480	T	G	0.0584	0.0111	1.53E-07
isoleucine	rs12215265	A	C	-0.0584	0.0111	1.52E-07
isoleucine	rs9353319	A	G	-0.1142	0.0217	1.38E-07
isoleucine	rs1335442	T	C	-0.0587	0.0111	1.36E-07
isoleucine	rs9647601	T	C	-0.0587	0.0111	1.36E-07
isoleucine	rs12528808	C	G	0.114	0.0216	1.33E-07
isoleucine	rs6921315	A	G	-0.0589	0.0111	1.22E-07
isoleucine	rs7749600	A	G	0.1166	0.0219	1.04E-07
isoleucine	rs6900270	T	C	0.1161	0.0218	9.97E-08
isoleucine	rs7753022	A	G	0.08	0.0149	8.74E-08
isoleucine	rs7755996	T	C	0.0558	0.0104	8.62E-08
isoleucine	rs9344550	T	G	-0.1164	0.0217	7.88E-08
isoleucine	rs9450308	A	G	0.1163	0.0217	7.78E-08
isoleucine	rs9450307	A	G	0.1164	0.0217	7.75E-08
isoleucine	rs6910543	A	G	-0.1169	0.0217	6.80E-08
isoleucine	rs7744309	T	G	-0.117	0.0216	6.28E-08
isoleucine	rs6902638	T	C	-0.117	0.0216	6.26E-08
isoleucine	rs7771366	T	C	-0.117	0.0216	6.24E-08
isoleucine	rs2842604	T	G	0.0592	0.0109	5.99E-08
isoleucine	rs2842613	A	G	-0.0681	0.0125	5.67E-08
isoleucine	rs2484355	A	G	-0.0586	0.0108	5.27E-08
isoleucine	rs6454483	A	G	-0.0581	0.0105	3.65E-08
isoleucine	rs9362215	T	C	-0.0846	0.0152	2.40E-08

isoleucine	rs9444346	A	G	-0.0749	0.0133	1.62E-08
isoleucine	rs9353327	T	C	-0.0606	0.0107	1.33E-08
isoleucine	rs4707207	C	G	-0.0652	0.0113	8.37E-09
isoleucine	rs9344542	T	C	0.0616	0.0107	8.12E-09
isoleucine	rs6922	T	G	-0.0641	0.0109	3.75E-09
isoleucine	rs9351065	A	G	0.0642	0.0108	3.26E-09
isoleucine	rs1059306	C	G	0.0641	0.0108	3.25E-09
isoleucine	rs2783171	T	C	0.0641	0.0108	3.22E-09
isoleucine	rs2475790	T	C	-0.0642	0.0108	3.22E-09
isoleucine	rs9444361	T	C	0.0638	0.0108	3.17E-09
isoleucine	rs9353318	A	T	0.0641	0.0108	3.14E-09
isoleucine	rs6454471	T	G	-0.0646	0.0109	3.12E-09
isoleucine	rs2475792	T	C	0.0628	0.0105	2.46E-09
isoleucine	rs1173419	T	C	0.0626	0.0105	2.43E-09
isoleucine	rs4383777	T	C	-0.0652	0.0109	1.92E-09
isoleucine	rs9450319	T	G	-0.0652	0.0109	1.91E-09
isoleucine	rs9362239	C	G	0.0652	0.0109	1.91E-09
isoleucine	rs2758847	T	C	0.0655	0.0109	1.88E-09
isoleucine	rs2842607	T	C	0.0655	0.0109	1.87E-09
isoleucine	rs4441928	T	C	-0.0648	0.0108	1.82E-09
isoleucine	rs4304137	T	G	0.0657	0.0109	1.75E-09
isoleucine	rs6931295	T	C	-0.066	0.011	1.66E-09
isoleucine	rs6454468	T	G	-0.0661	0.011	1.64E-09
isoleucine	rs2842609	A	G	-0.0651	0.0108	1.59E-09
isoleucine	rs4351223	A	G	-0.0651	0.0108	1.59E-09
isoleucine	rs12199873	A	C	-0.0651	0.0108	1.59E-09
isoleucine	rs7452605	A	G	-0.0651	0.0108	1.59E-09
isoleucine	rs2842608	A	C	-0.0651	0.0108	1.59E-09

isoleucine	rs9294337	T	C	-0.0651	0.0108	1.58E-09
isoleucine	rs7746065	A	C	-0.0671	0.0111	1.32E-09
isoleucine	rs9353315	A	G	-0.095	0.0156	1.23E-09
isoleucine	rs2758846	T	C	0.0665	0.0109	1.22E-09
isoleucine	rs7775864	T	C	-0.0645	0.0106	1.13E-09
isoleucine	rs7765636	A	G	-0.0662	0.0109	1.12E-09
isoleucine	rs7771612	T	G	-0.0645	0.0106	1.12E-09
isoleucine	rs9344532	A	G	-0.066	0.0108	1.00E-09
isoleucine	rs9344533	A	C	0.0647	0.0106	9.85E-10
isoleucine	rs2758842	A	G	0.0648	0.0106	9.77E-10
isoleucine	rs2842614	T	G	-0.0648	0.0106	9.77E-10
isoleucine	rs911927	C	G	0.0648	0.0106	9.71E-10
isoleucine	rs2758843	A	T	0.0648	0.0106	9.69E-10
isoleucine	rs7742691	T	C	-0.0648	0.0106	9.59E-10
isoleucine	rs6909767	A	G	0.0651	0.0106	9.40E-10
isoleucine	rs9450302	T	C	0.065	0.0106	8.55E-10
isoleucine	rs6935918	C	G	0.065	0.0106	8.43E-10
isoleucine	rs9444349	T	C	-0.0695	0.0112	5.29E-10
isoleucine	rs4373337	A	G	-0.0673	0.0108	5.17E-10
isoleucine	rs2842603	C	G	-0.0678	0.0109	4.66E-10
isoleucine	rs1173417	T	C	0.0667	0.0106	3.70E-10
isoleucine	rs4235826	A	G	0.0697	0.0111	3.47E-10
isoleucine	rs12524836	A	G	-0.0932	0.0148	3.32E-10
isoleucine	rs4593336	A	G	-0.0674	0.0107	3.29E-10
isoleucine	rs7752502	T	C	0.0675	0.0107	2.72E-10
isoleucine	rs9344528	T	C	0.0891	0.0141	2.72E-10
isoleucine	rs9450269	C	G	0.0992	0.0157	2.41E-10
isoleucine	rs494688	A	G	0.1005	0.0158	2.18E-10

isoleucine	rs9450270	A	G	-0.0985	0.0155	1.90E-10
isoleucine	rs6942065	A	G	0.0924	0.0143	1.12E-10
isoleucine	rs9450271	A	G	0.1002	0.0155	9.41E-11
isoleucine	rs9359655	A	G	-0.0924	0.0142	8.23E-11
isoleucine	rs1744122	T	C	-0.1103	0.0169	6.15E-11
isoleucine	rs554113	A	G	-0.1104	0.0169	6.00E-11
isoleucine	rs4400191	T	C	0.0932	0.0142	5.09E-11
isoleucine	rs637346	C	G	0.1109	0.0169	5.00E-11
isoleucine	rs4144167	T	C	0.0943	0.0143	4.68E-11
isoleucine	rs9450280	A	G	-0.0945	0.0143	4.26E-11
isoleucine	rs4373339	T	C	0.0964	0.0146	3.42E-11
isoleucine	rs12055597	C	G	-0.0944	0.0142	2.77E-11
isoleucine	rs9450282	A	G	-0.0717	0.0108	2.74E-11
isoleucine	rs9344524	A	C	0.0951	0.0142	2.39E-11
isoleucine	rs4565270	A	G	0.0963	0.0144	2.30E-11
isoleucine	rs1570311	T	G	-0.095	0.0141	1.85E-11
isoleucine	rs1590279	A	T	0.095	0.0141	1.81E-11
isoleucine	rs9344525	A	G	-0.0953	0.0141	1.57E-11
isoleucine	rs9362211	A	G	-0.0955	0.0142	1.52E-11
isoleucine	rs9362218	A	G	-0.0953	0.0141	1.47E-11
isoleucine	rs7772233	T	G	-0.0954	0.0141	1.30E-11
isoleucine	rs632163	T	C	0.1152	0.017	1.29E-11
isoleucine	rs1322401	A	G	-0.0952	0.014	1.11E-11
isoleucine	rs7754559	A	C	0.0952	0.014	1.11E-11
isoleucine	rs9362213	A	T	0.0952	0.014	1.11E-11
isoleucine	rs9344521	A	C	-0.0952	0.014	1.11E-11
isoleucine	rs1000633	C	G	0.0952	0.014	1.11E-11
isoleucine	rs12662033	T	C	0.0958	0.0141	9.07E-12

isoleucine	rs1322403	A	G	-0.1146	0.0168	8.52E-12
isoleucine	rs9353310	T	C	0.1146	0.0168	8.52E-12
isoleucine	rs1322404	A	T	0.1146	0.0168	8.52E-12
isoleucine	rs6919207	T	C	0.1146	0.0168	8.52E-12
isoleucine	rs640093	T	C	0.1148	0.0168	8.23E-12
isoleucine	rs4487548	A	G	-0.0961	0.0141	8.14E-12
isoleucine	rs521005	A	G	-0.1149	0.0168	7.69E-12
isoleucine	rs9353309	T	C	0.1148	0.0168	7.66E-12
isoleucine	rs638745	C	G	-0.1152	0.0168	7.13E-12
isoleucine	rs550499	C	G	0.1152	0.0168	7.08E-12
isoleucine	rs527670	T	C	-0.1152	0.0168	7.07E-12
isoleucine	rs9344518	A	T	0.1151	0.0168	6.88E-12
isoleucine	rs7753711	T	G	-0.1158	0.0169	6.60E-12
isoleucine	rs522915	A	G	-0.1153	0.0168	6.47E-12
isoleucine	rs522129	A	G	-0.1153	0.0168	6.39E-12
isoleucine	rs7750970	A	T	-0.1154	0.0168	6.18E-12
isoleucine	rs4624841	A	G	0.1154	0.0168	6.18E-12
isoleucine	rs520090	A	G	0.1154	0.0168	6.09E-12
isoleucine	rs573892	A	C	-0.1156	0.0168	5.56E-12
isoleucine	rs490079	T	C	-0.1156	0.0168	5.56E-12
isoleucine	rs573737	A	G	-0.1156	0.0168	5.56E-12
isoleucine	rs7767626	A	G	0.1156	0.0168	5.55E-12
isoleucine	rs683218	A	G	-0.1156	0.0168	5.55E-12
isoleucine	rs7767800	A	G	0.1156	0.0168	5.55E-12
isoleucine	rs567686	A	T	-0.1156	0.0168	5.55E-12
isoleucine	rs9294335	T	C	0.1153	0.0166	4.31E-12
isoleucine	rs727870	A	G	-0.1143	0.0164	3.10E-12
isoleucine	rs494562	A	G	-0.1182	0.0167	1.34E-12

Ketoleucine	rs320265	T	C	-0.0174	0.0039	9.40E-06
Ketoleucine	rs12455580	T	C	0.0122	0.0027	9.39E-06
Ketoleucine	rs791625	C	G	0.0108	0.0024	9.18E-06
Ketoleucine	rs3798221	T	G	0.0109	0.0024	8.31E-06
Ketoleucine	rs7656367	A	G	-0.0151	0.0034	7.83E-06
Ketoleucine	rs11136678	A	G	-0.0119	0.0026	7.49E-06
Ketoleucine	rs6569976	A	C	0.0157	0.0035	7.33E-06
Ketoleucine	rs9388375	C	G	-0.0154	0.0034	6.22E-06
Ketoleucine	rs2933405	A	G	0.0221	0.0049	5.88E-06
Ketoleucine	rs276166	T	G	-0.0243	0.0053	5.33E-06
Ketoleucine	rs6483387	A	G	-0.0232	0.005	4.23E-06
Ketoleucine	rs17345752	A	T	-0.0114	0.0025	3.76E-06
Ketoleucine	rs17411832	A	C	-0.0114	0.0025	3.21E-06
Ketoleucine	rs11564087	T	C	-0.028	0.006	3.06E-06
Ketoleucine	rs1353802	T	C	0.0238	0.005	2.13E-06
Ketoleucine	rs904463	A	G	0.0239	0.005	2.12E-06
Ketoleucine	rs791623	T	G	-0.0116	0.0024	1.68E-06
Ketoleucine	rs1846443	A	C	0.0242	0.0051	1.62E-06
Ketoleucine	rs10947808	T	C	-0.012	0.0025	1.39E-06
Ketoleucine	rs17732955	T	C	0.0112	0.0023	1.27E-06
Ketoleucine	rs1353804	T	G	0.0245	0.005	1.22E-06
Ketoleucine	rs1353806	C	G	-0.0245	0.005	1.22E-06
Ketoleucine	rs7480724	C	G	0.0245	0.005	1.22E-06
Ketoleucine	rs1499035	T	G	-0.0245	0.005	1.22E-06
Ketoleucine	rs6483380	A	G	-0.0245	0.005	1.22E-06
Ketoleucine	rs1499026	T	C	0.0246	0.0051	1.14E-06
Ketoleucine	rs1499032	T	C	0.0246	0.005	1.08E-06
Ketoleucine	rs1846442	C	G	-0.0247	0.005	9.21E-07

Ketoleucine	rs7479186	T	C	-0.0253	0.0051	7.94E-07
Ketoleucine	rs1391874	A	G	0.0253	0.0051	5.83E-07
Ketoleucine	rs1041070	T	C	0.0122	0.0024	3.35E-07
Ketoleucine	rs2094194	T	C	0.0122	0.0024	3.13E-07
Ketoleucine	rs9595815	A	G	0.0122	0.0024	3.11E-07
Ketoleucine	rs10082580	A	T	-0.0258	0.005	3.04E-07
Ketoleucine	rs10741500	A	T	-0.026	0.005	2.57E-07
Ketoleucine	rs9316338	A	G	-0.0124	0.0024	2.49E-07
Ketoleucine	rs893970	T	C	-0.0123	0.0023	1.11E-07
Ketoleucine	rs10024717	A	G	0.0124	0.0023	5.62E-08
Ketoleucine	rs9637599	A	C	-0.0123	0.0023	5.61E-08
Ketoleucine	rs4941615	T	C	0.0133	0.0024	4.54E-08
Ketoleucine	rs4423843	A	G	-0.0129	0.0023	2.98E-08
Ketoleucine	rs7660693	T	C	-0.0125	0.0022	2.48E-08
Ketoleucine	rs17789027	A	G	-0.0128	0.0023	1.65E-08
Ketoleucine	rs4693209	C	G	0.0128	0.0022	1.21E-08
Ketoleucine	rs1975393	T	C	0.0129	0.0023	1.08E-08
Ketoleucine	rs17789621	T	C	0.0134	0.0023	5.69E-09
Ketoleucine	rs7678928	T	C	0.013	0.0022	4.82E-09
Ketoleucine	rs17789147	C	G	-0.0134	0.0023	2.64E-09
Ketoleucine	rs6841731	A	G	0.0134	0.0022	2.60E-09
Ketoleucine	rs6819344	A	C	0.0135	0.0023	2.49E-09
Ketoleucine	rs2869926	T	C	0.0135	0.0023	2.01E-09
Ketoleucine	rs881561	A	G	0.0136	0.0023	1.81E-09
Ketoleucine	rs893971	A	G	-0.0137	0.0023	1.36E-09
Ketoleucine	rs1440581	T	C	-0.0141	0.0022	2.43E-10
kynurenine	rs9533582	A	G	-0.0222	0.005	1.00E-05
kynurenine	rs488303	T	C	-0.0076	0.0017	9.71E-06

kynurenine	rs1014429	A	C	-0.0078	0.0018	9.67E-06
kynurenine	rs7619568	A	G	0.0177	0.004	9.53E-06
kynurenine	rs4766527	T	G	0.0076	0.0017	9.30E-06
kynurenine	rs6946693	T	G	0.0102	0.0023	9.18E-06
kynurenine	rs1922860	A	T	-0.0077	0.0017	8.88E-06
kynurenine	rs515200	A	T	-0.0077	0.0017	8.85E-06
kynurenine	rs6575633	A	T	-0.0161	0.0036	8.64E-06
kynurenine	rs2358247	T	G	0.0077	0.0017	8.61E-06
kynurenine	rs2491302	T	C	-0.0078	0.0018	8.54E-06
kynurenine	rs6424661	A	G	0.0077	0.0017	8.40E-06
kynurenine	rs12425190	A	C	-0.0077	0.0017	8.34E-06
kynurenine	rs11838131	A	G	0.0077	0.0017	8.26E-06
kynurenine	rs7978821	A	G	0.0077	0.0017	8.18E-06
kynurenine	rs7961935	A	G	-0.0077	0.0017	8.18E-06
kynurenine	rs10937762	A	G	0.0078	0.0018	8.16E-06
kynurenine	rs4766522	T	G	0.0077	0.0017	8.10E-06
kynurenine	rs12940887	T	C	0.0079	0.0018	8.10E-06
kynurenine	rs11162752	A	G	-0.0077	0.0017	8.08E-06
kynurenine	rs11057695	T	C	0.0206	0.0046	8.03E-06
kynurenine	rs12490394	T	G	0.0084	0.0019	8.01E-06
kynurenine	rs2339706	A	G	-0.0077	0.0017	7.94E-06
kynurenine	rs669357	A	T	-0.0078	0.0017	7.90E-06
kynurenine	rs669764	T	C	-0.0078	0.0018	7.73E-06
kynurenine	rs180050	T	G	0.008	0.0018	7.65E-06
kynurenine	rs7920556	A	G	0.0077	0.0017	7.58E-06
kynurenine	rs8105457	A	T	0.0079	0.0018	7.57E-06
kynurenine	rs7843776	T	C	-0.0084	0.0019	7.41E-06
kynurenine	rs16917919	A	G	-0.0078	0.0017	7.21E-06

kynurenine	rs742230	A	G	0.0077	0.0017	7.20E-06
kynurenine	rs7071565	T	C	0.0078	0.0017	7.09E-06
kynurenine	rs1056620	T	C	-0.0077	0.0017	7.01E-06
kynurenine	rs1922858	C	G	0.0077	0.0017	6.96E-06
kynurenine	rs991817	A	G	0.0078	0.0017	6.92E-06
kynurenine	rs2106409	C	G	-0.0078	0.0017	6.84E-06
kynurenine	rs7961663	A	G	-0.0078	0.0017	6.51E-06
kynurenine	rs7302586	A	G	0.0116	0.0026	6.47E-06
kynurenine	rs7479583	A	G	0.015	0.0033	6.38E-06
kynurenine	rs10849918	T	C	0.0078	0.0017	6.36E-06
kynurenine	rs17500140	A	T	-0.0149	0.0033	6.35E-06
kynurenine	rs4766524	T	C	0.0078	0.0017	6.34E-06
kynurenine	rs12228193	T	C	0.0116	0.0026	6.29E-06
kynurenine	rs3111816	A	G	-0.0081	0.0018	6.29E-06
kynurenine	rs12799457	A	G	-0.0154	0.0034	6.18E-06
kynurenine	rs3788706	A	G	-0.0117	0.0026	6.10E-06
kynurenine	rs7683885	T	C	-0.0078	0.0017	5.97E-06
kynurenine	rs12802337	A	G	-0.0161	0.0036	5.95E-06
kynurenine	rs4509829	T	C	-0.0078	0.0017	5.83E-06
kynurenine	rs1353538	A	G	0.0079	0.0017	5.65E-06
kynurenine	rs7133291	T	C	0.0117	0.0026	5.48E-06
kynurenine	rs10844358	A	T	0.0117	0.0026	5.43E-06
kynurenine	rs3907042	T	C	0.0117	0.0026	5.43E-06
kynurenine	rs7908741	C	G	0.0079	0.0017	5.40E-06
kynurenine	rs759507	T	C	0.008	0.0018	5.18E-06
kynurenine	rs7082839	T	G	-0.0079	0.0017	5.02E-06
kynurenine	rs7619096	A	C	0.008	0.0017	4.92E-06
kynurenine	rs6575634	T	C	-0.0158	0.0035	4.85E-06

kynurenine	rs11052261	T	G	0.0116	0.0025	4.75E-06
kynurenine	rs7518125	A	C	0.0079	0.0017	4.71E-06
kynurenine	rs11593042	A	T	0.0151	0.0033	4.55E-06
kynurenine	rs2651516	T	C	0.008	0.0017	4.30E-06
kynurenine	rs3809198	A	C	0.0554	0.012	4.28E-06
kynurenine	rs10789426	A	G	-0.016	0.0035	3.99E-06
kynurenine	rs11714817	T	G	-0.008	0.0017	3.87E-06
kynurenine	rs11100203	A	G	0.0081	0.0017	3.85E-06
kynurenine	rs1426134	C	G	-0.0081	0.0017	3.84E-06
kynurenine	rs511797	A	C	0.012	0.0026	3.77E-06
kynurenine	rs11708357	T	C	-0.008	0.0017	3.64E-06
kynurenine	rs7548008	A	G	0.016	0.0035	3.56E-06
kynurenine	rs2780814	T	C	-0.0081	0.0017	3.51E-06
kynurenine	rs310238	T	G	0.0081	0.0017	3.50E-06
kynurenine	rs7902612	A	G	-0.0081	0.0018	3.47E-06
kynurenine	rs310240	A	C	-0.0081	0.0017	3.47E-06
kynurenine	rs11817173	A	G	-0.0081	0.0018	3.44E-06
kynurenine	rs7315519	A	G	0.008	0.0017	3.41E-06
kynurenine	rs2500232	A	G	-0.0081	0.0017	3.37E-06
kynurenine	rs6770323	T	C	-0.008	0.0017	3.33E-06
kynurenine	rs11127811	A	G	0.008	0.0017	3.32E-06
kynurenine	rs2320536	T	C	0.0081	0.0017	3.32E-06
kynurenine	rs10433517	T	C	-0.008	0.0017	3.30E-06
kynurenine	rs11707310	A	G	0.008	0.0017	3.30E-06
kynurenine	rs2483616	T	G	0.0081	0.0017	3.20E-06
kynurenine	rs9857268	A	G	0.008	0.0017	3.07E-06
kynurenine	rs6532653	T	G	0.0081	0.0017	2.89E-06
kynurenine	rs6536380	T	C	0.0082	0.0017	2.86E-06

kynurenine	rs7911338	T	C	-0.0081	0.0017	2.79E-06
kynurenine	rs6991530	T	G	-0.0147	0.0031	2.76E-06
kynurenine	rs4843719	A	C	0.0181	0.0039	2.72E-06
kynurenine	rs7074230	A	G	0.0083	0.0018	2.51E-06
kynurenine	rs10744774	A	C	0.012	0.0026	2.38E-06
kynurenine	rs12937634	T	C	-0.0082	0.0017	2.28E-06
kynurenine	rs4378452	T	C	-0.0084	0.0018	2.27E-06
kynurenine	rs4767003	T	C	0.0082	0.0017	2.26E-06
kynurenine	rs11052251	A	G	0.012	0.0025	2.26E-06
kynurenine	rs2478150	A	C	-0.0082	0.0017	2.09E-06
kynurenine	rs4234926	T	C	-0.0083	0.0017	1.89E-06
kynurenine	rs739744	T	C	-0.0082	0.0017	1.88E-06
kynurenine	rs9926829	T	C	0.0173	0.0036	1.88E-06
kynurenine	rs756823	T	C	0.0082	0.0017	1.87E-06
kynurenine	rs695871	C	G	0.0116	0.0024	1.87E-06
kynurenine	rs886125	A	G	0.0082	0.0017	1.86E-06
kynurenine	rs11733444	A	G	-0.0082	0.0017	1.85E-06
kynurenine	rs2500234	A	G	0.0083	0.0017	1.76E-06
kynurenine	rs4579126	T	C	-0.0082	0.0017	1.74E-06
kynurenine	rs10434104	T	G	-0.0083	0.0017	1.73E-06
kynurenine	rs7910920	A	G	-0.0084	0.0018	1.72E-06
kynurenine	rs1922859	T	C	0.0082	0.0017	1.62E-06
kynurenine	rs2141946	T	C	0.0082	0.0017	1.61E-06
kynurenine	rs11938562	A	T	0.0083	0.0017	1.58E-06
kynurenine	rs3847372	T	C	-0.0084	0.0017	1.57E-06
kynurenine	rs2375475	T	C	-0.0084	0.0017	1.41E-06
kynurenine	rs2214161	T	C	0.0252	0.0052	1.37E-06
kynurenine	rs4766443	A	G	0.0083	0.0017	1.33E-06

kynurenine	rs3789978	A	G	0.0123	0.0025	1.32E-06
kynurenine	rs16974854	T	C	-0.0234	0.0048	1.15E-06
kynurenine	rs4306960	A	G	0.0085	0.0017	1.12E-06
kynurenine	rs6815057	A	G	0.0085	0.0017	1.12E-06
kynurenine	rs10857319	T	C	-0.0086	0.0017	9.45E-07
kynurenine	rs12082398	T	C	0.0117	0.0024	9.33E-07
kynurenine	rs4820242	A	G	-0.0085	0.0017	9.03E-07
kynurenine	rs1353539	A	G	0.0087	0.0017	6.54E-07
kynurenine	rs1353536	A	G	-0.0087	0.0017	6.54E-07
kynurenine	rs4805661	A	C	-0.0087	0.0018	6.50E-07
kynurenine	rs1580756	T	C	-0.0087	0.0017	6.45E-07
kynurenine	rs8111994	T	C	-0.0087	0.0017	6.44E-07
kynurenine	rs11646849	A	G	-0.0086	0.0017	6.40E-07
kynurenine	rs1496637	T	C	0.0087	0.0017	6.33E-07
kynurenine	rs10420755	A	G	-0.0087	0.0017	6.33E-07
kynurenine	rs6510193	T	C	0.0087	0.0017	6.33E-07
kynurenine	rs1496632	T	C	0.0087	0.0017	6.31E-07
kynurenine	rs1969869	T	G	0.0089	0.0018	6.29E-07
kynurenine	rs1874493	A	G	-0.0088	0.0018	5.88E-07
kynurenine	rs12974626	A	T	0.0087	0.0017	5.76E-07
kynurenine	rs2491294	A	G	-0.01	0.002	5.73E-07
kynurenine	rs3745785	A	T	-0.0088	0.0017	5.07E-07
kynurenine	rs11007082	T	G	0.0088	0.0017	4.07E-07
kynurenine	rs1353540	A	C	0.0089	0.0017	3.92E-07
kynurenine	rs4329925	T	C	-0.0135	0.0026	3.40E-07
kynurenine	rs5014369	A	T	-0.0135	0.0026	3.24E-07
kynurenine	rs7846217	T	C	-0.0132	0.0026	3.05E-07
kynurenine	rs8109968	A	G	-0.0089	0.0017	2.70E-07

kynurenine	rs10418212	A	T	0.009	0.0017	2.53E-07
kynurenine	rs1155806	A	G	-0.009	0.0017	2.50E-07
kynurenine	rs1496635	A	C	-0.0091	0.0018	2.12E-07
kynurenine	rs3739319	A	G	-0.0091	0.0017	1.67E-07
kynurenine	rs7000868	A	G	0.0092	0.0017	1.27E-07
kynurenine	rs21327	A	G	0.0095	0.0018	1.25E-07
kynurenine	rs11773909	A	C	0.0092	0.0017	1.15E-07
kynurenine	rs11773975	A	T	0.0092	0.0017	1.14E-07
kynurenine	rs10958573	A	G	-0.0092	0.0017	1.13E-07
kynurenine	rs7832080	T	C	0.0092	0.0017	1.09E-07
kynurenine	rs6983940	A	G	-0.0093	0.0017	9.06E-08
kynurenine	rs7477705	A	G	-0.0094	0.0018	8.22E-08
kynurenine	rs10826460	A	G	-0.0094	0.0018	8.22E-08
kynurenine	rs7906282	T	G	0.0094	0.0018	8.10E-08
kynurenine	rs4283235	A	G	-0.0143	0.0026	6.92E-08
kynurenine	rs2729459	A	G	0.0094	0.0017	5.30E-08
kynurenine	rs6540086	T	G	0.0174	0.0032	5.15E-08
kynurenine	rs4843717	T	C	-0.0223	0.0041	4.94E-08
kynurenine	rs2160860	A	T	0.0095	0.0017	4.90E-08
kynurenine	rs11014158	T	C	0.0827	0.015	3.36E-08
kynurenine	rs2543046	A	C	0.0096	0.0017	3.32E-08
kynurenine	rs2729456	T	G	0.0096	0.0017	3.16E-08
kynurenine	rs2543047	T	C	-0.0096	0.0017	3.08E-08
kynurenine	rs2543050	C	G	0.0096	0.0017	3.06E-08
kynurenine	rs2729460	T	G	0.0096	0.0017	2.79E-08
kynurenine	rs16924894	A	T	0.0814	0.0146	2.33E-08
kynurenine	rs10504013	T	C	-0.0098	0.0017	1.46E-08
kynurenine	rs12929670	A	C	0.015	0.0026	1.29E-08

kynurenine	rs2340952	A	T	-0.01	0.0017	1.21E-08
kynurenine	rs10113563	A	C	-0.01	0.0017	8.33E-09
kynurenine	rs1265566	T	C	0.0104	0.0018	3.54E-09
kynurenine	rs10085935	T	C	-0.0103	0.0017	3.33E-09
kynurenine	rs5014370	T	C	-0.0174	0.0027	9.80E-11
kynurenine	rs11066320	A	G	0.0115	0.0017	3.10E-11
kynurenine	rs11066301	A	G	-0.0115	0.0017	2.93E-11
kynurenine	rs17696736	A	G	-0.0116	0.0017	1.29E-11
kynurenine	rs8063871	A	C	0.0167	0.0024	4.72E-12
kynurenine	rs16943320	A	G	-0.0166	0.0024	2.89E-12
kynurenine	rs17782215	T	C	0.0184	0.0026	1.24E-12
kynurenine	rs11066188	A	G	0.0123	0.0017	1.14E-12
kynurenine	rs1060253	C	G	-0.0173	0.0024	7.16E-13
kynurenine	rs3889228	A	C	-0.0172	0.0024	6.47E-13
kynurenine	rs747578	A	G	-0.0172	0.0024	6.25E-13
kynurenine	rs16943315	A	G	0.0176	0.0024	1.65E-13
kynurenine	rs17630235	A	G	0.0131	0.0017	3.41E-14
kynurenine	rs11065987	A	G	-0.0132	0.0017	2.37E-14
kynurenine	rs997761	T	G	-0.0179	0.0023	1.31E-14
kynurenine	rs876985	T	C	-0.0189	0.0023	3.86E-16
kynurenine	rs750950	A	C	0.0144	0.0018	2.34E-16
kynurenine	rs10774625	A	G	0.0143	0.0017	1.47E-16
kynurenine	rs653178	T	C	-0.0144	0.0017	6.54E-17
kynurenine	rs3184504	T	C	0.0149	0.0017	6.05E-18
kynurenine	rs3815559	C	G	0.0212	0.0024	3.29E-18
kynurenine	rs731710	A	G	-0.0155	0.0017	3.34E-19
kynurenine	rs12448415	A	G	-0.0218	0.0024	2.99E-19
kynurenine	rs4843714	A	G	0.0219	0.0024	2.61E-19

kynurenine	rs12931876	T	C	-0.022	0.0024	1.63E-19
kynurenine	rs8050771	A	G	0.0247	0.0024	1.76E-24
kynurenine	rs4843718	A	G	0.0253	0.0024	1.06E-25
kynurenine	rs8051149	A	G	0.0258	0.0025	9.07E-26
lactate	rs6947902	A	G	-0.0108	0.0024	9.84E-06
lactate	rs759168	T	G	0.0108	0.0024	9.80E-06
lactate	rs2000812	T	C	0.0111	0.0025	9.70E-06
lactate	rs1876100	A	T	-0.0106	0.0024	9.20E-06
lactate	rs4718533	A	G	0.0158	0.0036	8.85E-06
lactate	rs759166	T	C	0.0108	0.0024	8.58E-06
lactate	rs6593201	A	G	-0.0109	0.0024	8.36E-06
lactate	rs1024749	T	C	0.0109	0.0024	8.21E-06
lactate	rs1024750	A	G	-0.0109	0.0024	8.20E-06
lactate	rs1344307	A	G	0.0109	0.0024	7.72E-06
lactate	rs7595585	A	T	0.0215	0.0048	7.44E-06
lactate	rs9989916	T	G	-0.022	0.0049	7.07E-06
lactate	rs6960438	T	C	0.011	0.0024	6.63E-06
lactate	rs723526	A	G	-0.011	0.0024	6.62E-06
lactate	rs4718532	T	C	-0.016	0.0035	6.61E-06
lactate	rs17022832	A	G	-0.0217	0.0048	6.34E-06
lactate	rs6732923	A	G	-0.0217	0.0048	6.34E-06
lactate	rs4635489	A	G	0.0364	0.008	5.66E-06
lactate	rs16937124	A	C	-0.021	0.0046	5.62E-06
lactate	rs3785024	A	G	-0.0223	0.0049	5.56E-06
lactate	rs2242578	C	G	-0.0111	0.0024	5.08E-06
lactate	rs1193346	A	G	0.0208	0.0045	3.47E-06
lactate	rs10788232	T	C	-0.0111	0.0024	2.46E-06
lactate	rs12464201	T	C	0.0243	0.0051	2.21E-06

lactate	rs9582841	A	T	-0.0198	0.0041	1.73E-06
lactate	rs780094	T	C	0.0109	0.0023	1.65E-06
lactate	rs1330523	A	G	-0.0117	0.0024	1.56E-06
lactate	rs1193345	A	G	-0.0216	0.0045	1.43E-06
lactate	rs11901476	A	G	0.0235	0.0048	1.02E-06
lactate	rs17022909	A	C	-0.0235	0.0048	1.02E-06
lactate	rs13403441	A	T	-0.0235	0.0048	1.02E-06
lactate	rs1260326	T	C	0.0116	0.0023	2.70E-07
lactate	rs780093	T	C	0.0117	0.0023	1.89E-07
leucine	rs568815	A	C	0.004	0.0009	9.99E-06
leucine	rs4767229	A	G	0.004	0.0009	9.99E-06
leucine	rs696692	T	C	0.004	0.0009	9.96E-06
leucine	rs7073430	A	C	0.004	0.0009	9.95E-06
leucine	rs6588636	T	C	-0.004	0.0009	9.94E-06
leucine	rs606798	T	G	0.004	0.0009	9.90E-06
leucine	rs11580409	A	C	-0.004	0.0009	9.89E-06
leucine	rs13249647	T	C	0.004	0.0009	9.83E-06
leucine	rs11851600	T	G	0.004	0.0009	9.77E-06
leucine	rs4752614	T	C	-0.004	0.0009	9.77E-06
leucine	rs7912957	A	T	0.004	0.0009	9.77E-06
leucine	rs705958	T	C	0.004	0.0009	9.77E-06
leucine	rs13075986	T	G	0.004	0.0009	9.77E-06
leucine	rs4670450	A	G	-0.004	0.0009	9.75E-06
leucine	rs4752615	T	C	-0.004	0.0009	9.69E-06
leucine	rs6853952	T	C	0.004	0.0009	9.67E-06
leucine	rs7996613	T	C	-0.004	0.0009	9.67E-06
leucine	rs797348	A	G	0.004	0.0009	9.67E-06
leucine	rs2513896	A	G	0.0042	0.001	9.65E-06

leucine	rs6433710	T	C	-0.004	0.0009	9.63E-06
leucine	rs2995656	A	G	-0.004	0.0009	9.63E-06
leucine	rs4977334	T	C	0.004	0.0009	9.60E-06
leucine	rs7894846	A	T	-0.004	0.0009	9.59E-06
leucine	rs708361	A	T	-0.0088	0.002	9.57E-06
leucine	rs7969371	A	C	0.004	0.0009	9.52E-06
leucine	rs4767200	C	G	-0.004	0.0009	9.52E-06
leucine	rs4805013	A	T	0.004	0.0009	9.50E-06
leucine	rs265454	A	G	0.0041	0.0009	9.49E-06
leucine	rs1444212	A	G	0.004	0.0009	9.48E-06
leucine	rs4726306	T	C	0.004	0.0009	9.46E-06
leucine	rs2834798	A	G	0.004	0.0009	9.43E-06
leucine	rs6723547	T	C	0.004	0.0009	9.42E-06
leucine	rs699848	T	C	0.004	0.0009	9.37E-06
leucine	rs2192520	T	C	0.004	0.0009	9.33E-06
leucine	rs6832601	T	G	-0.007	0.0016	9.31E-06
leucine	rs6726363	A	G	0.004	0.0009	9.29E-06
leucine	rs699853	A	G	0.004	0.0009	9.22E-06
leucine	rs696701	T	C	0.004	0.0009	9.20E-06
leucine	rs6003913	T	C	0.0079	0.0018	9.17E-06
leucine	rs11654057	A	C	-0.004	0.0009	9.10E-06
leucine	rs9394683	T	C	-0.004	0.0009	9.05E-06
leucine	rs17698229	C	G	0.0041	0.0009	9.00E-06
leucine	rs7224165	A	C	0.004	0.0009	9.00E-06
leucine	rs13165077	A	G	0.0041	0.0009	8.98E-06
leucine	rs2624695	T	C	-0.004	0.0009	8.94E-06
leucine	rs10881004	T	C	0.004	0.0009	8.93E-06
leucine	rs8019112	A	T	-0.004	0.0009	8.92E-06

leucine	rs11118892	C	G	0.004	0.0009	8.91E-06
leucine	rs1817551	T	C	0.004	0.0009	8.90E-06
leucine	rs12893089	A	C	-0.004	0.0009	8.90E-06
leucine	rs1368532	T	C	-0.004	0.0009	8.86E-06
leucine	rs8023420	A	C	-0.0076	0.0017	8.85E-06
leucine	rs17399147	T	C	0.004	0.0009	8.83E-06
leucine	rs16917919	A	G	-0.004	0.0009	8.83E-06
leucine	rs4957023	T	C	-0.004	0.0009	8.75E-06
leucine	rs4315786	C	G	-0.004	0.0009	8.74E-06
leucine	rs7968823	T	C	-0.004	0.0009	8.71E-06
leucine	rs2420970	T	C	0.004	0.0009	8.58E-06
leucine	rs6543342	T	C	0.004	0.0009	8.56E-06
leucine	rs12624279	A	G	-0.004	0.0009	8.55E-06
leucine	rs10736117	A	G	-0.004	0.0009	8.50E-06
leucine	rs11144511	T	C	-0.0042	0.0009	8.42E-06
leucine	rs12517096	A	G	0.0041	0.0009	8.41E-06
leucine	rs11117808	A	C	0.004	0.0009	8.40E-06
leucine	rs13403909	T	C	0.004	0.0009	8.36E-06
leucine	rs2854311	A	G	-0.004	0.0009	8.31E-06
leucine	rs12739316	A	G	0.0043	0.001	8.30E-06
leucine	rs9322464	T	C	0.004	0.0009	8.27E-06
leucine	rs1872800	A	T	-0.004	0.0009	8.25E-06
leucine	rs3983526	T	C	0.004	0.0009	8.22E-06
leucine	rs11650749	T	C	-0.004	0.0009	8.22E-06
leucine	rs9651062	T	C	-0.004	0.0009	8.21E-06
leucine	rs11652718	A	G	0.004	0.0009	8.19E-06
leucine	rs1684807	T	C	0.004	0.0009	8.18E-06
leucine	rs2834803	A	G	0.004	0.0009	8.13E-06

leucine	rs10739273	C	G	-0.004	0.0009	8.07E-06
leucine	rs10750683	C	G	0.004	0.0009	8.06E-06
leucine	rs2478832	T	C	-0.0041	0.0009	8.05E-06
leucine	rs11615860	A	G	-0.004	0.0009	8.05E-06
leucine	rs2146498	A	G	0.004	0.0009	8.04E-06
leucine	rs1038555	T	C	-0.004	0.0009	7.99E-06
leucine	rs664629	A	G	-0.004	0.0009	7.99E-06
leucine	rs2592209	C	G	-0.004	0.0009	7.99E-06
leucine	rs2057435	A	G	0.0041	0.0009	7.95E-06
leucine	rs12644042	T	C	-0.004	0.0009	7.94E-06
leucine	rs4977335	A	G	0.004	0.0009	7.88E-06
leucine	rs1995150	T	C	0.004	0.0009	7.84E-06
leucine	rs10013696	A	G	0.0041	0.0009	7.83E-06
leucine	rs13339005	A	G	0.0072	0.0016	7.82E-06
leucine	rs2592208	A	C	-0.004	0.0009	7.82E-06
leucine	rs1155801	C	G	-0.004	0.0009	7.81E-06
leucine	rs793082	A	C	-0.004	0.0009	7.79E-06
leucine	rs13130810	T	C	0.004	0.0009	7.79E-06
leucine	rs7366464	T	C	-0.0075	0.0017	7.78E-06
leucine	rs3906146	T	C	0.004	0.0009	7.77E-06
leucine	rs720816	A	G	0.004	0.0009	7.76E-06
leucine	rs9636889	A	G	0.0043	0.001	7.75E-06
leucine	rs7081719	T	C	0.004	0.0009	7.68E-06
leucine	rs12355470	T	C	-0.004	0.0009	7.68E-06
leucine	rs7541875	A	G	-0.004	0.0009	7.65E-06
leucine	rs4358894	C	G	-0.004	0.0009	7.59E-06
leucine	rs4499783	T	C	-0.004	0.0009	7.58E-06
leucine	rs4753700	A	C	0.0041	0.0009	7.57E-06

leucine	rs6715113	A	G	0.004	0.0009	7.55E-06
leucine	rs629690	T	C	-0.0041	0.0009	7.51E-06
leucine	rs631750	T	C	0.0041	0.0009	7.51E-06
leucine	rs6481723	T	C	-0.004	0.0009	7.50E-06
leucine	rs4978781	A	G	0.004	0.0009	7.45E-06
leucine	rs699856	T	C	0.004	0.0009	7.45E-06
leucine	rs4747738	T	C	0.004	0.0009	7.40E-06
leucine	rs9903421	T	C	-0.0041	0.0009	7.39E-06
leucine	rs12651056	A	G	-0.004	0.0009	7.37E-06
leucine	rs17657877	C	G	-0.004	0.0009	7.33E-06
leucine	rs11712316	A	G	0.004	0.0009	7.32E-06
leucine	rs11070297	T	C	-0.004	0.0009	7.31E-06
leucine	rs934568	T	C	0.0041	0.0009	7.29E-06
leucine	rs10887020	T	C	0.004	0.0009	7.29E-06
leucine	rs3736286	A	G	-0.0041	0.0009	7.27E-06
leucine	rs745032	A	G	0.0041	0.0009	7.21E-06
leucine	rs10828678	A	G	0.004	0.0009	7.20E-06
leucine	rs4749619	A	G	-0.0041	0.0009	7.19E-06
leucine	rs11070295	T	C	-0.0041	0.0009	7.18E-06
leucine	rs4920094	A	G	0.004	0.0009	7.18E-06
leucine	rs11070296	T	C	-0.0041	0.0009	7.17E-06
leucine	rs3743033	C	G	0.0041	0.0009	7.14E-06
leucine	rs9840386	T	C	0.004	0.0009	7.14E-06
leucine	rs11801253	A	G	0.0043	0.001	7.14E-06
leucine	rs705955	C	G	0.004	0.0009	7.11E-06
leucine	rs6679864	A	G	-0.0041	0.0009	7.11E-06
leucine	rs10833523	T	C	0.0041	0.0009	7.09E-06
leucine	rs2667698	A	C	0.0041	0.0009	7.07E-06

leucine	rs7513382	T	G	-0.004	0.0009	7.05E-06
leucine	rs192689	A	G	0.004	0.0009	6.95E-06
leucine	rs188423	T	C	-0.004	0.0009	6.95E-06
leucine	rs705957	A	G	0.004	0.0009	6.91E-06
leucine	rs4749652	T	C	0.004	0.0009	6.88E-06
leucine	rs1581567	A	G	-0.0041	0.0009	6.87E-06
leucine	rs1560625	T	G	-0.004	0.0009	6.87E-06
leucine	rs7669967	A	G	0.004	0.0009	6.83E-06
leucine	rs7031103	C	G	-0.004	0.0009	6.82E-06
leucine	rs1619856	T	C	-0.004	0.0009	6.82E-06
leucine	rs7912933	T	G	0.027	0.006	6.80E-06
leucine	rs7896322	A	G	0.027	0.006	6.80E-06
leucine	rs7914851	C	G	0.0041	0.0009	6.79E-06
leucine	rs13112687	A	G	0.0072	0.0016	6.77E-06
leucine	rs2279789	T	C	0.0041	0.0009	6.76E-06
leucine	rs12344504	T	C	-0.004	0.0009	6.70E-06
leucine	rs11684598	A	G	-0.004	0.0009	6.68E-06
leucine	rs1894947	T	C	0.0071	0.0016	6.67E-06
leucine	rs498475	A	G	-0.004	0.0009	6.66E-06
leucine	rs5751749	A	G	0.0081	0.0018	6.65E-06
leucine	rs993502	T	C	0.0041	0.0009	6.65E-06
leucine	rs17265788	C	G	0.0071	0.0016	6.63E-06
leucine	rs1822834	C	G	0.0108	0.0024	6.59E-06
leucine	rs10826884	T	C	-0.0041	0.0009	6.57E-06
leucine	rs4749629	A	C	-0.0041	0.0009	6.57E-06
leucine	rs4749632	A	G	0.0041	0.0009	6.57E-06
leucine	rs7284860	A	G	-0.0081	0.0018	6.57E-06
leucine	rs4749630	C	G	-0.0041	0.0009	6.57E-06

leucine	rs4749628	A	G	-0.0041	0.0009	6.54E-06
leucine	rs10973683	A	C	-0.0041	0.0009	6.54E-06
leucine	rs1945443	T	C	0.0041	0.0009	6.51E-06
leucine	rs7090992	A	G	0.0041	0.0009	6.46E-06
leucine	rs923902	T	C	-0.0041	0.0009	6.45E-06
leucine	rs4747735	T	G	-0.0041	0.0009	6.45E-06
leucine	rs7916090	T	C	0.0041	0.0009	6.43E-06
leucine	rs12196614	A	T	0.0107	0.0024	6.42E-06
leucine	rs10733070	A	T	-0.0041	0.0009	6.40E-06
leucine	rs9651063	T	C	0.0041	0.0009	6.39E-06
leucine	rs623111	A	C	0.0041	0.0009	6.38E-06
leucine	rs682359	T	G	0.004	0.0009	6.34E-06
leucine	rs12646449	T	C	0.0041	0.0009	6.32E-06
leucine	rs7121554	T	C	-0.007	0.0016	6.31E-06
leucine	rs6987131	T	C	-0.004	0.0009	6.30E-06
leucine	rs1971105	T	G	-0.0041	0.0009	6.27E-06
leucine	rs1025466	T	C	-0.0041	0.0009	6.25E-06
leucine	rs923818	A	G	0.0041	0.0009	6.23E-06
leucine	rs10763847	T	C	0.0041	0.0009	6.21E-06
leucine	rs315100	T	C	0.0041	0.0009	6.21E-06
leucine	rs954004	T	C	0.004	0.0009	6.19E-06
leucine	rs10808702	C	G	0.004	0.0009	6.19E-06
leucine	rs10755942	T	C	-0.004	0.0009	6.19E-06
leucine	rs6471829	A	C	-0.004	0.0009	6.19E-06
leucine	rs13252902	A	G	0.004	0.0009	6.18E-06
leucine	rs3924223	A	G	-0.0041	0.0009	6.18E-06
leucine	rs4073959	A	G	0.0041	0.0009	6.18E-06
leucine	rs1034515	A	G	0.004	0.0009	6.18E-06

leucine	rs7011810	A	G	0.004	0.0009	6.17E-06
leucine	rs7835184	A	T	-0.004	0.0009	6.17E-06
leucine	rs6471821	T	C	-0.004	0.0009	6.16E-06
leucine	rs4354297	C	G	-0.004	0.0009	6.16E-06
leucine	rs6471820	T	C	0.004	0.0009	6.16E-06
leucine	rs6471819	A	T	0.004	0.0009	6.15E-06
leucine	rs4978780	T	C	-0.0041	0.0009	6.06E-06
leucine	rs891878	T	G	-0.0041	0.0009	6.03E-06
leucine	rs2834741	A	T	0.0041	0.0009	5.99E-06
leucine	rs10818008	T	C	0.004	0.0009	5.99E-06
leucine	rs11008296	A	T	0.0041	0.0009	5.99E-06
leucine	rs7574695	T	C	-0.0041	0.0009	5.97E-06
leucine	rs10400950	A	G	0.0073	0.0016	5.95E-06
leucine	rs2652854	A	C	0.004	0.0009	5.93E-06
leucine	rs6889147	A	T	0.0078	0.0017	5.93E-06
leucine	rs2208193	A	G	0.0041	0.0009	5.91E-06
leucine	rs7625991	A	C	-0.0042	0.0009	5.90E-06
leucine	rs1052313	A	G	0.0041	0.0009	5.88E-06
leucine	rs1473474	T	C	-0.0041	0.0009	5.83E-06
leucine	rs637828	A	C	0.0041	0.0009	5.81E-06
leucine	rs12468540	A	G	0.0041	0.0009	5.76E-06
leucine	rs174478	T	G	0.0042	0.0009	5.76E-06
leucine	rs666870	A	G	-0.0042	0.0009	5.73E-06
leucine	rs11657125	T	C	0.0041	0.0009	5.71E-06
leucine	rs174476	T	C	-0.0042	0.0009	5.70E-06
leucine	rs8131355	A	G	-0.0041	0.0009	5.68E-06
leucine	rs11002782	A	G	0.0041	0.0009	5.64E-06
leucine	rs1511027	T	C	0.0041	0.0009	5.63E-06

leucine	rs4947579	A	C	-0.0041	0.0009	5.62E-06
leucine	rs917430	A	C	0.0041	0.0009	5.57E-06
leucine	rs1463853	A	T	0.0041	0.0009	5.56E-06
leucine	rs1333214	A	G	-0.0041	0.0009	5.54E-06
leucine	rs12713072	A	T	0.0041	0.0009	5.54E-06
leucine	rs10504300	A	G	0.0041	0.0009	5.51E-06
leucine	rs6595752	A	T	-0.0041	0.0009	5.50E-06
leucine	rs13156569	T	C	0.0041	0.0009	5.48E-06
leucine	rs8012516	A	C	0.0041	0.0009	5.47E-06
leucine	rs7911153	A	T	-0.0041	0.0009	5.36E-06
leucine	rs2285137	T	C	-0.0108	0.0024	5.35E-06
leucine	rs10483511	C	G	0.0041	0.0009	5.34E-06
leucine	rs2792614	T	C	-0.0041	0.0009	5.31E-06
leucine	rs6471803	A	G	0.0041	0.0009	5.29E-06
leucine	rs7622687	A	G	-0.0041	0.0009	5.21E-06
leucine	rs1494119	A	C	0.0041	0.0009	5.15E-06
leucine	rs4749646	A	C	-0.0041	0.0009	5.14E-06
leucine	rs7082507	T	G	0.0041	0.0009	5.12E-06
leucine	rs4276770	A	G	-0.0041	0.0009	5.11E-06
leucine	rs769630	T	C	0.0041	0.0009	5.06E-06
leucine	rs1392185	T	G	-0.0041	0.0009	5.06E-06
leucine	rs1499792	T	C	0.0041	0.0009	5.04E-06
leucine	rs295520	A	T	0.0041	0.0009	5.03E-06
leucine	rs6441140	A	G	0.0041	0.0009	5.03E-06
leucine	rs12648134	T	C	0.0041	0.0009	4.99E-06
leucine	rs2652856	A	C	-0.0041	0.0009	4.97E-06
leucine	rs9808116	A	T	-0.0041	0.0009	4.93E-06
leucine	rs7915093	T	C	-0.0041	0.0009	4.90E-06

leucine	rs4948202	A	G	0.0041	0.0009	4.86E-06
leucine	rs6869988	T	G	-0.0041	0.0009	4.82E-06
leucine	rs6822279	A	C	-0.0041	0.0009	4.79E-06
leucine	rs1626773	A	C	0.0041	0.0009	4.78E-06
leucine	rs11578928	A	C	0.0041	0.0009	4.75E-06
leucine	rs2173986	C	G	-0.0041	0.0009	4.74E-06
leucine	rs3768617	T	C	0.0041	0.0009	4.72E-06
leucine	rs7861753	A	T	-0.0041	0.0009	4.72E-06
leucine	rs2373642	A	G	-0.0536	0.0117	4.72E-06
leucine	rs10483512	A	G	0.0041	0.0009	4.71E-06
leucine	rs2699857	T	C	0.0044	0.001	4.71E-06
leucine	rs12588267	A	T	-0.0041	0.0009	4.69E-06
leucine	rs2415590	A	G	-0.0041	0.0009	4.68E-06
leucine	rs11183620	A	G	0.0041	0.0009	4.68E-06
leucine	rs7839607	A	G	-0.0041	0.0009	4.67E-06
leucine	rs6471328	A	G	-0.0041	0.0009	4.67E-06
leucine	rs989960	T	C	0.0041	0.0009	4.66E-06
leucine	rs895017	A	T	0.0041	0.0009	4.66E-06
leucine	rs4735135	A	T	0.0041	0.0009	4.65E-06
leucine	rs477831	A	T	0.0041	0.0009	4.65E-06
leucine	rs11868948	A	G	-0.0042	0.0009	4.63E-06
leucine	rs9292230	T	C	0.0041	0.0009	4.63E-06
leucine	rs10759333	T	C	-0.0041	0.0009	4.62E-06
leucine	rs1019947	T	C	0.0041	0.0009	4.60E-06
leucine	rs11850284	A	C	0.0041	0.0009	4.60E-06
leucine	rs697311	A	G	0.0041	0.0009	4.58E-06
leucine	rs10956824	A	G	0.0041	0.0009	4.56E-06
leucine	rs167648	A	C	-0.0041	0.0009	4.52E-06

leucine	rs4948203	T	C	0.0041	0.0009	4.48E-06
leucine	rs10816778	T	C	-0.0041	0.0009	4.46E-06
leucine	rs4531478	A	G	0.0041	0.0009	4.45E-06
leucine	rs1390408	T	C	-0.0041	0.0009	4.43E-06
leucine	rs10504295	A	G	-0.0041	0.0009	4.43E-06
leucine	rs12759463	A	G	0.0041	0.0009	4.35E-06
leucine	rs7723797	A	G	-0.0041	0.0009	4.35E-06
leucine	rs11952637	A	G	0.0043	0.0009	4.31E-06
leucine	rs1333213	T	C	-0.0041	0.0009	4.31E-06
leucine	rs2065537	A	G	0.0041	0.0009	4.30E-06
leucine	rs907211	A	C	0.0041	0.0009	4.30E-06
leucine	rs1499782	A	G	-0.0041	0.0009	4.30E-06
leucine	rs6483413	A	G	0.0041	0.0009	4.29E-06
leucine	rs7189113	A	G	0.0075	0.0016	4.28E-06
leucine	rs10156418	T	C	0.0041	0.0009	4.26E-06
leucine	rs3909214	T	C	-0.0074	0.0016	4.25E-06
leucine	rs4074961	T	C	-0.0044	0.001	4.23E-06
leucine	rs9889080	A	G	0.0074	0.0016	4.21E-06
leucine	rs618001	T	C	0.0041	0.0009	4.18E-06
leucine	rs7100577	C	G	0.0041	0.0009	4.14E-06
leucine	rs10098681	A	G	0.0041	0.0009	4.11E-06
leucine	rs10756757	T	C	-0.0042	0.0009	4.09E-06
leucine	rs6103896	A	T	-0.0042	0.0009	4.05E-06
leucine	rs6017434	T	C	0.0042	0.0009	4.04E-06
leucine	rs1999120	A	G	-0.0041	0.0009	4.04E-06
leucine	rs7874957	A	T	0.0041	0.0009	4.02E-06
leucine	rs595330	T	C	0.0042	0.0009	4.00E-06
leucine	rs538291	T	G	-0.0042	0.0009	4.00E-06

leucine	rs1072336	A	T	0.0042	0.0009	3.99E-06
leucine	rs1072337	C	G	0.0042	0.0009	3.98E-06
leucine	rs7479540	T	C	-0.0042	0.0009	3.93E-06
leucine	rs867560	C	G	-0.0041	0.0009	3.86E-06
leucine	rs4921403	C	G	0.0042	0.0009	3.82E-06
leucine	rs982790	T	C	-0.0044	0.0009	3.74E-06
leucine	rs849336	A	G	0.0042	0.0009	3.73E-06
leucine	rs759456	T	G	0.0042	0.0009	3.73E-06
leucine	rs849335	T	C	0.0042	0.0009	3.73E-06
leucine	rs2819318	T	C	-0.0042	0.0009	3.67E-06
leucine	rs2722373	T	C	0.0042	0.0009	3.67E-06
leucine	rs2649733	C	G	0.0042	0.0009	3.67E-06
leucine	rs4889294	T	C	-0.0041	0.0009	3.65E-06
leucine	rs10798580	A	G	-0.0042	0.0009	3.64E-06
leucine	rs757378	A	T	-0.0042	0.0009	3.57E-06
leucine	rs10500907	A	G	0.0042	0.0009	3.55E-06
leucine	rs10979727	T	C	-0.0042	0.0009	3.55E-06
leucine	rs707246	A	G	0.0042	0.0009	3.53E-06
leucine	rs885561	T	C	-0.0042	0.0009	3.53E-06
leucine	rs4680382	A	G	0.0042	0.0009	3.51E-06
leucine	rs1104999	T	C	0.0041	0.0009	3.51E-06
leucine	rs10763843	A	G	-0.0042	0.0009	3.45E-06
leucine	rs849327	A	G	0.0042	0.0009	3.45E-06
leucine	rs4948213	A	C	0.0042	0.0009	3.44E-06
leucine	rs4432749	A	G	0.0043	0.0009	3.38E-06
leucine	rs4726308	T	G	-0.0042	0.0009	3.35E-06
leucine	rs899273	T	C	0.0042	0.0009	3.33E-06
leucine	rs4128400	C	G	-0.0042	0.0009	3.32E-06

leucine	rs13127848	T	G	-0.0075	0.0016	3.31E-06
leucine	rs17176388	T	C	0.0042	0.0009	3.30E-06
leucine	rs4875396	T	C	0.0042	0.0009	3.27E-06
leucine	rs1325994	A	G	-0.0042	0.0009	3.23E-06
leucine	rs10056377	A	G	0.0042	0.0009	3.22E-06
leucine	rs4244423	T	G	-0.0042	0.0009	3.22E-06
leucine	rs7442673	T	G	0.0042	0.0009	3.22E-06
leucine	rs4921415	T	C	0.0042	0.0009	3.22E-06
leucine	rs7700922	T	G	0.0042	0.0009	3.22E-06
leucine	rs6796484	T	C	-0.0042	0.0009	3.21E-06
leucine	rs4472012	A	G	0.0042	0.0009	3.21E-06
leucine	rs7734768	C	G	-0.0042	0.0009	3.21E-06
leucine	rs12657055	T	C	-0.0042	0.0009	3.18E-06
leucine	rs7329192	T	C	-0.0042	0.0009	3.17E-06
leucine	rs4681618	A	G	-0.0042	0.0009	3.15E-06
leucine	rs11914492	C	G	-0.0042	0.0009	3.14E-06
leucine	rs1581568	A	G	-0.0042	0.0009	3.13E-06
leucine	rs3775574	A	G	-0.0044	0.0009	3.13E-06
leucine	rs7713215	T	C	0.0042	0.0009	3.13E-06
leucine	rs4244422	T	C	-0.0042	0.0009	3.12E-06
leucine	rs12547681	T	G	0.0042	0.0009	3.11E-06
leucine	rs1669348	A	G	0.0042	0.0009	3.09E-06
leucine	rs12655537	A	C	-0.0042	0.0009	3.05E-06
leucine	rs334763	A	G	0.0042	0.0009	3.05E-06
leucine	rs4875397	A	G	-0.0042	0.0009	3.04E-06
leucine	rs1000061	A	G	0.0042	0.0009	3.02E-06
leucine	rs10762834	T	G	0.0042	0.0009	3.02E-06
leucine	rs2812137	A	G	0.0042	0.0009	3.02E-06

leucine	rs10058132	A	C	-0.0042	0.0009	3.01E-06
leucine	rs11950442	A	G	-0.0042	0.0009	3.01E-06
leucine	rs2357713	T	G	-0.0042	0.0009	3.00E-06
leucine	rs3802643	T	C	-0.0042	0.0009	2.97E-06
leucine	rs3802644	A	T	-0.0042	0.0009	2.94E-06
leucine	rs11157135	A	T	-0.0042	0.0009	2.89E-06
leucine	rs2924146	C	G	0.0042	0.0009	2.88E-06
leucine	rs1278312	T	C	-0.0042	0.0009	2.87E-06
leucine	rs12498703	A	G	-0.0042	0.0009	2.86E-06
leucine	rs308780	T	C	-0.0042	0.0009	2.86E-06
leucine	rs2933284	T	C	0.0042	0.0009	2.86E-06
leucine	rs2302423	A	G	0.0042	0.0009	2.82E-06
leucine	rs7794847	C	G	-0.0042	0.0009	2.78E-06
leucine	rs4921412	C	G	-0.0042	0.0009	2.78E-06
leucine	rs9983763	A	G	0.0042	0.0009	2.78E-06
leucine	rs7770162	T	C	-0.0042	0.0009	2.76E-06
leucine	rs2224552	T	G	-0.0042	0.0009	2.76E-06
leucine	rs7911876	T	C	0.0043	0.0009	2.76E-06
leucine	rs6933066	A	G	-0.0042	0.0009	2.76E-06
leucine	rs6103893	A	C	-0.0043	0.0009	2.72E-06
leucine	rs6103894	T	G	-0.0043	0.0009	2.71E-06
leucine	rs12257915	T	C	0.0042	0.0009	2.69E-06
leucine	rs4869855	A	C	-0.0042	0.0009	2.65E-06
leucine	rs9837954	T	C	-0.0043	0.0009	2.64E-06
leucine	rs8012205	A	G	-0.0042	0.0009	2.56E-06
leucine	rs720293	A	G	0.0043	0.0009	2.53E-06
leucine	rs735543	T	G	-0.0042	0.0009	2.52E-06
leucine	rs17173197	T	C	-0.0044	0.0009	2.46E-06

leucine	rs8003702	T	G	0.0042	0.0009	2.45E-06
leucine	rs979242	T	C	-0.0043	0.0009	2.45E-06
leucine	rs10180318	A	G	0.0042	0.0009	2.44E-06
leucine	rs9369741	T	G	0.0043	0.0009	2.42E-06
leucine	rs11887097	A	G	-0.0043	0.0009	2.41E-06
leucine	rs6722427	T	C	-0.0043	0.0009	2.34E-06
leucine	rs10221801	T	G	0.0043	0.0009	2.34E-06
leucine	rs6982408	T	G	-0.0042	0.0009	2.32E-06
leucine	rs6501323	A	C	0.0042	0.0009	2.30E-06
leucine	rs817571	T	C	-0.0042	0.0009	2.24E-06
leucine	rs4851946	A	G	0.0042	0.0009	2.20E-06
leucine	rs817574	A	C	0.0042	0.0009	2.19E-06
leucine	rs10764440	A	G	-0.0042	0.0009	2.15E-06
leucine	rs100043	T	C	0.0042	0.0009	2.15E-06
leucine	rs1360820	A	G	-0.0042	0.0009	2.15E-06
leucine	rs333906	T	C	0.0042	0.0009	2.15E-06
leucine	rs9309063	T	G	-0.0043	0.0009	2.14E-06
leucine	rs10169660	T	C	-0.0043	0.0009	2.14E-06
leucine	rs7603706	A	G	-0.0043	0.0009	2.14E-06
leucine	rs10184513	A	T	-0.0043	0.0009	2.14E-06
leucine	rs4689558	A	G	-0.0043	0.0009	2.14E-06
leucine	rs7588474	T	C	-0.0043	0.0009	2.14E-06
leucine	rs10173729	T	C	-0.0043	0.0009	2.14E-06
leucine	rs10180555	A	C	-0.0043	0.0009	2.14E-06
leucine	rs10208195	A	C	0.0043	0.0009	2.14E-06
leucine	rs7577732	A	G	0.0043	0.0009	2.14E-06
leucine	rs7314569	T	G	0.0042	0.0009	2.08E-06
leucine	rs7562613	T	C	0.0043	0.0009	2.06E-06

leucine	rs12477170	T	C	-0.0043	0.0009	2.02E-06
leucine	rs6707096	A	G	0.0043	0.0009	2.01E-06
leucine	rs12719042	A	G	-0.0043	0.0009	2.00E-06
leucine	rs1795964	A	G	-0.0044	0.0009	1.98E-06
leucine	rs6436666	A	G	0.0043	0.0009	1.96E-06
leucine	rs11773199	A	G	0.0043	0.0009	1.96E-06
leucine	rs7569375	T	C	-0.0043	0.0009	1.95E-06
leucine	rs13424243	C	G	0.0043	0.0009	1.95E-06
leucine	rs11203041	A	G	-0.0043	0.0009	1.95E-06
leucine	rs348869	A	G	-0.0043	0.0009	1.95E-06
leucine	rs11238438	C	G	0.0043	0.0009	1.92E-06
leucine	rs6850406	T	C	-0.0043	0.0009	1.92E-06
leucine	rs2117738	A	G	0.0043	0.0009	1.92E-06
leucine	rs11767820	T	C	0.0043	0.0009	1.91E-06
leucine	rs11124743	A	G	0.0043	0.0009	1.91E-06
leucine	rs12719046	A	G	0.0043	0.0009	1.91E-06
leucine	rs11238437	A	G	-0.0043	0.0009	1.91E-06
leucine	rs1705832	T	C	0.0043	0.0009	1.90E-06
leucine	rs740545	T	C	0.0043	0.0009	1.89E-06
leucine	rs13222665	T	C	-0.0043	0.0009	1.89E-06
leucine	rs736686	A	G	0.0043	0.0009	1.89E-06
leucine	rs1519309	T	C	-0.0043	0.0009	1.87E-06
leucine	rs7301176	T	C	0.0043	0.0009	1.86E-06
leucine	rs12536110	A	G	0.0043	0.0009	1.85E-06
leucine	rs11007082	T	G	0.0043	0.0009	1.84E-06
leucine	rs2273875	C	G	0.0043	0.0009	1.82E-06
leucine	rs7150091	T	C	0.0043	0.0009	1.82E-06
leucine	rs17636610	A	G	0.0043	0.0009	1.81E-06

leucine	rs10954411	A	T	0.0043	0.0009	1.81E-06
leucine	rs2819322	T	C	-0.0043	0.0009	1.79E-06
leucine	rs6518309	A	C	0.0043	0.0009	1.78E-06
leucine	rs3808938	C	G	-0.0043	0.0009	1.78E-06
leucine	rs3758553	T	C	0.0043	0.0009	1.78E-06
leucine	rs11767529	A	G	-0.0043	0.0009	1.76E-06
leucine	rs1056890	A	G	-0.0043	0.0009	1.75E-06
leucine	rs37959	T	C	0.0044	0.0009	1.71E-06
leucine	rs11041723	A	C	-0.0043	0.0009	1.71E-06
leucine	rs12638772	A	G	-0.0044	0.0009	1.71E-06
leucine	rs6482356	C	G	0.0043	0.0009	1.67E-06
leucine	rs1527293	A	G	0.0043	0.0009	1.66E-06
leucine	rs2117740	A	G	-0.0043	0.0009	1.66E-06
leucine	rs4754098	A	G	-0.0046	0.001	1.65E-06
leucine	rs161799	A	G	-0.0043	0.0009	1.65E-06
leucine	rs6562776	A	G	-0.0043	0.0009	1.65E-06
leucine	rs10938775	A	G	0.0043	0.0009	1.65E-06
leucine	rs4893844	T	C	0.0043	0.0009	1.62E-06
leucine	rs12472886	A	G	0.0043	0.0009	1.62E-06
leucine	rs1931001	T	G	-0.0043	0.0009	1.62E-06
leucine	rs12192623	A	G	0.0043	0.0009	1.59E-06
leucine	rs825885	A	G	-0.0097	0.002	1.56E-06
leucine	rs1527296	A	C	-0.0043	0.0009	1.56E-06
leucine	rs10930820	A	T	0.0043	0.0009	1.55E-06
leucine	rs10937762	A	G	0.0044	0.0009	1.53E-06
leucine	rs2009303	A	G	-0.0043	0.0009	1.53E-06
leucine	rs4756646	A	T	-0.0043	0.0009	1.53E-06
leucine	rs1020010	T	C	0.0043	0.0009	1.50E-06

leucine	rs17107974	T	C	-0.0082	0.0017	1.50E-06
leucine	rs4244350	A	G	0.0043	0.0009	1.50E-06
leucine	rs10133440	T	G	-0.0044	0.0009	1.49E-06
leucine	rs4968791	A	G	-0.0043	0.0009	1.48E-06
leucine	rs7795093	A	G	-0.0044	0.0009	1.47E-06
leucine	rs1958891	A	G	0.0044	0.0009	1.45E-06
leucine	rs2887466	T	C	0.0044	0.0009	1.44E-06
leucine	rs12618606	T	C	0.0043	0.0009	1.43E-06
leucine	rs17238008	T	C	-0.0115	0.0024	1.43E-06
leucine	rs1950251	A	C	0.0044	0.0009	1.39E-06
leucine	rs12478848	T	G	-0.0043	0.0009	1.38E-06
leucine	rs2275977	A	G	-0.0085	0.0018	1.36E-06
leucine	rs7738860	T	C	-0.0044	0.0009	1.31E-06
leucine	rs7079928	A	C	0.0044	0.0009	1.30E-06
leucine	rs11241913	A	G	0.0043	0.0009	1.29E-06
leucine	rs17180977	A	G	-0.0044	0.0009	1.29E-06
leucine	rs248047	A	G	-0.0043	0.0009	1.29E-06
leucine	rs6858624	A	G	0.0043	0.0009	1.26E-06
leucine	rs1852497	T	G	0.0043	0.0009	1.26E-06
leucine	rs12590108	A	G	0.0044	0.0009	1.26E-06
leucine	rs1958890	A	G	0.0044	0.0009	1.25E-06
leucine	rs1677193	A	C	-0.0044	0.0009	1.25E-06
leucine	rs12719045	T	C	0.0044	0.0009	1.25E-06
leucine	rs7898858	A	C	0.0043	0.0009	1.20E-06
leucine	rs12612007	A	G	0.0044	0.0009	1.20E-06
leucine	rs7901640	A	G	-0.0044	0.0009	1.19E-06
leucine	rs3914801	T	C	-0.0044	0.0009	1.18E-06
leucine	rs211183	A	C	-0.0044	0.0009	1.16E-06

leucine	rs12719044	A	G	0.0044	0.0009	1.14E-06
leucine	rs4699401	T	C	0.0044	0.0009	1.12E-06
leucine	rs211169	T	C	-0.0044	0.0009	1.11E-06
leucine	rs211167	A	T	0.0044	0.0009	1.11E-06
leucine	rs211164	T	G	0.0044	0.0009	1.11E-06
leucine	rs211162	A	G	0.0044	0.0009	1.11E-06
leucine	rs3819041	C	G	-0.0044	0.0009	1.11E-06
leucine	rs211171	T	G	-0.0044	0.0009	1.10E-06
leucine	rs11772226	A	G	0.0044	0.0009	1.09E-06
leucine	rs2489198	A	G	-0.0044	0.0009	1.09E-06
leucine	rs211173	T	C	0.0044	0.0009	1.09E-06
leucine	rs211172	A	C	0.0044	0.0009	1.09E-06
leucine	rs211174	T	C	0.0044	0.0009	1.08E-06
leucine	rs12627810	A	G	-0.0087	0.0018	1.07E-06
leucine	rs13184473	A	G	0.0044	0.0009	1.06E-06
leucine	rs6003916	T	C	0.0087	0.0018	1.06E-06
leucine	rs17181098	T	C	-0.0044	0.0009	1.03E-06
leucine	rs10133608	A	G	-0.0044	0.0009	1.02E-06
leucine	rs1334318	A	G	0.0044	0.0009	1.01E-06
leucine	rs6554590	T	C	0.0044	0.0009	9.99E-07
leucine	rs7707382	T	C	0.0044	0.0009	9.98E-07
leucine	rs9403527	T	C	0.0045	0.0009	9.91E-07
leucine	rs1541046	A	G	0.0044	0.0009	9.89E-07
leucine	rs4919621	A	T	-0.0044	0.0009	9.82E-07
leucine	rs1982131	A	G	-0.0044	0.0009	9.49E-07
leucine	rs11241916	T	C	0.0044	0.0009	9.42E-07
leucine	rs10132632	A	C	-0.0044	0.0009	9.21E-07
leucine	rs2273555	A	G	0.0044	0.0009	9.21E-07

leucine	rs13179187	T	C	0.0044	0.0009	9.20E-07
leucine	rs481781	T	C	0.0044	0.0009	9.14E-07
leucine	rs2062201	A	G	-0.0044	0.0009	9.13E-07
leucine	rs2060490	T	C	-0.0044	0.0009	9.10E-07
leucine	rs7148154	T	C	-0.0044	0.0009	9.09E-07
leucine	rs8181915	A	G	-0.0044	0.0009	9.04E-07
leucine	rs900532	T	C	-0.0044	0.0009	8.99E-07
leucine	rs6883672	T	C	-0.0044	0.0009	8.79E-07
leucine	rs11940185	A	G	-0.0044	0.0009	8.55E-07
leucine	rs6859962	A	T	-0.0044	0.0009	8.53E-07
leucine	rs10859938	T	C	0.0045	0.0009	8.53E-07
leucine	rs12892730	A	G	-0.0044	0.0009	8.47E-07
leucine	rs12884297	A	G	-0.0044	0.0009	8.47E-07
leucine	rs7152989	T	C	0.0044	0.0009	8.47E-07
leucine	rs954606	T	C	0.0044	0.0009	8.47E-07
leucine	rs12590213	T	C	-0.0044	0.0009	8.47E-07
leucine	rs12884115	T	G	-0.0044	0.0009	8.47E-07
leucine	rs1958902	C	G	0.0044	0.0009	8.47E-07
leucine	rs4903786	A	G	-0.0044	0.0009	8.47E-07
leucine	rs8012950	A	G	-0.0044	0.0009	8.47E-07
leucine	rs954607	A	G	-0.0044	0.0009	8.47E-07
leucine	rs12883088	A	G	-0.0044	0.0009	8.45E-07
leucine	rs812799	A	G	-0.0044	0.0009	8.45E-07
leucine	rs10139471	C	G	-0.0044	0.0009	8.42E-07
leucine	rs2210312	A	G	0.0044	0.0009	8.42E-07
leucine	rs7159346	A	C	-0.0044	0.0009	8.42E-07
leucine	rs10142064	C	G	0.0044	0.0009	8.42E-07
leucine	rs4306328	C	G	-0.0044	0.0009	8.15E-07

leucine	rs11056280	T	C	0.0044	0.0009	8.15E-07
leucine	rs12815236	T	C	-0.0044	0.0009	8.15E-07
leucine	rs4265640	A	G	0.0044	0.0009	8.15E-07
leucine	rs12422325	A	G	-0.0044	0.0009	8.15E-07
leucine	rs12821859	T	C	0.0044	0.0009	8.15E-07
leucine	rs2109215	T	C	0.0044	0.0009	8.11E-07
leucine	rs7923885	A	G	-0.0044	0.0009	8.08E-07
leucine	rs390836	A	T	0.0045	0.0009	8.06E-07
leucine	rs4903754	A	G	-0.0044	0.0009	7.86E-07
leucine	rs7080055	A	C	-0.0044	0.0009	7.84E-07
leucine	rs7316805	C	G	0.0044	0.0009	7.83E-07
leucine	rs9827101	A	C	0.0045	0.0009	7.79E-07
leucine	rs772016	T	C	0.0044	0.0009	7.75E-07
leucine	rs2479551	A	G	-0.0044	0.0009	7.73E-07
leucine	rs3900452	A	G	0.0045	0.0009	7.67E-07
leucine	rs1125404	T	C	0.0045	0.0009	7.60E-07
leucine	rs4919623	C	G	0.0044	0.0009	7.57E-07
leucine	rs4244351	C	G	0.0044	0.0009	7.56E-07
leucine	rs2834578	T	C	0.0045	0.0009	7.24E-07
leucine	rs7044658	T	C	0.0045	0.0009	7.20E-07
leucine	rs679563	A	G	-0.0045	0.0009	7.13E-07
leucine	rs2485374	A	G	-0.0044	0.0009	6.99E-07
leucine	rs3099106	A	G	0.0045	0.0009	6.94E-07
leucine	rs733283	A	T	-0.0045	0.0009	6.82E-07
leucine	rs1952939	T	C	-0.0045	0.0009	6.74E-07
leucine	rs10258601	A	G	0.0044	0.0009	6.73E-07
leucine	rs772021	A	T	-0.0045	0.0009	6.70E-07
leucine	rs1564480	A	G	0.0045	0.0009	6.68E-07

leucine	rs12000585	A	G	-0.0087	0.0017	6.61E-07
leucine	rs11999261	A	T	-0.0087	0.0017	6.56E-07
leucine	rs2246775	A	C	0.0045	0.0009	6.51E-07
leucine	rs943737	T	C	0.0045	0.0009	6.50E-07
leucine	rs7685009	A	G	-0.0045	0.0009	6.44E-07
leucine	rs1292666	T	C	0.0045	0.0009	6.44E-07
leucine	rs2485378	A	G	0.0045	0.0009	6.41E-07
leucine	rs1796765	T	C	-0.0045	0.0009	6.33E-07
leucine	rs2046395	A	G	0.0045	0.0009	6.28E-07
leucine	rs772012	A	G	0.0045	0.0009	6.18E-07
leucine	rs796427	A	C	-0.0045	0.0009	6.04E-07
leucine	rs9521172	T	G	-0.0045	0.0009	5.88E-07
leucine	rs4935115	A	G	0.0045	0.0009	5.75E-07
leucine	rs4767788	A	G	0.0047	0.0009	5.74E-07
leucine	rs10004285	A	G	0.005	0.001	5.73E-07
leucine	rs1003887	T	C	-0.005	0.001	5.73E-07
leucine	rs2595899	T	C	0.005	0.001	5.73E-07
leucine	rs10190188	T	C	0.005	0.001	5.73E-07
leucine	rs772029	T	C	0.0045	0.0009	5.73E-07
leucine	rs6470194	A	G	0.005	0.001	5.73E-07
leucine	rs4148593	A	G	0.005	0.001	5.73E-07
leucine	rs1818106	A	C	0.005	0.001	5.73E-07
leucine	rs2898645	T	C	-0.005	0.001	5.73E-07
leucine	rs1991842	A	T	-0.0045	0.0009	5.67E-07
leucine	rs772027	A	T	-0.0045	0.0009	5.64E-07
leucine	rs772025	T	C	0.0045	0.0009	5.57E-07
leucine	rs2445421	A	G	0.0045	0.0009	5.55E-07
leucine	rs1428203	T	G	0.0045	0.0009	5.51E-07

leucine	rs3802681	T	C	0.0045	0.0009	5.44E-07
leucine	rs4331020	A	G	-0.0045	0.0009	5.44E-07
leucine	rs11191267	T	C	0.0045	0.0009	5.44E-07
leucine	rs2020895	A	G	-0.0045	0.0009	5.43E-07
leucine	rs4646045	A	G	-0.0045	0.0009	5.40E-07
leucine	rs248113	T	C	0.0046	0.0009	5.34E-07
leucine	rs10846108	A	C	-0.0045	0.0009	5.20E-07
leucine	rs1540565	A	G	-0.0045	0.0009	4.97E-07
leucine	rs2608486	T	G	-0.0045	0.0009	4.97E-07
leucine	rs2701779	C	G	0.0045	0.0009	4.97E-07
leucine	rs17531418	A	G	-0.0045	0.0009	4.97E-07
leucine	rs4016189	C	G	0.0045	0.0009	4.74E-07
leucine	rs4639452	A	T	-0.0045	0.0009	4.73E-07
leucine	rs1548952	C	G	0.0045	0.0009	4.72E-07
leucine	rs1548953	A	T	0.0045	0.0009	4.72E-07
leucine	rs6945693	A	G	0.0045	0.0009	4.71E-07
leucine	rs1477113	A	G	0.0045	0.0009	4.70E-07
leucine	rs1477112	T	C	0.0045	0.0009	4.70E-07
leucine	rs6964300	C	G	-0.0045	0.0009	4.70E-07
leucine	rs2111205	T	C	0.0045	0.0009	4.69E-07
leucine	rs720625	A	G	-0.0046	0.0009	4.66E-07
leucine	rs4077470	T	C	-0.0045	0.0009	4.65E-07
leucine	rs4646044	A	G	-0.0045	0.0009	4.57E-07
leucine	rs10927797	A	G	-0.0045	0.0009	4.55E-07
leucine	rs10516462	A	G	-0.0046	0.0009	4.51E-07
leucine	rs1509396	C	G	0.0046	0.0009	4.46E-07
leucine	rs4646059	A	C	-0.0045	0.0009	4.45E-07
leucine	rs3099105	T	C	-0.0045	0.0009	4.39E-07

leucine	rs1800614	T	G	0.0045	0.0009	4.36E-07
leucine	rs1052576	T	C	-0.0045	0.0009	4.32E-07
leucine	rs4263990	T	C	-0.0045	0.0009	4.31E-07
leucine	rs4593819	C	G	-0.0045	0.0009	4.31E-07
leucine	rs1172261	A	G	-0.0046	0.0009	4.25E-07
leucine	rs12047618	T	G	0.0046	0.0009	4.25E-07
leucine	rs1052571	A	G	0.0045	0.0009	4.22E-07
leucine	rs11579378	A	G	-0.0045	0.0009	4.21E-07
leucine	rs4233536	T	C	0.0045	0.0009	4.18E-07
leucine	rs9606994	A	G	0.0046	0.0009	4.16E-07
leucine	rs933704	T	C	0.0045	0.0009	4.12E-07
leucine	rs13224934	T	C	0.0046	0.0009	4.12E-07
leucine	rs10487377	A	G	0.0046	0.0009	4.09E-07
leucine	rs9559495	C	G	0.0045	0.0009	4.07E-07
leucine	rs4646036	T	C	0.0045	0.0009	4.00E-07
leucine	rs7689825	T	C	0.0046	0.0009	3.97E-07
leucine	rs4646014	T	C	-0.0045	0.0009	3.83E-07
leucine	rs4646025	T	C	-0.0045	0.0009	3.81E-07
leucine	rs1820205	T	C	0.0045	0.0009	3.81E-07
leucine	rs4646047	T	C	-0.0045	0.0009	3.77E-07
leucine	rs4646018	T	C	-0.0045	0.0009	3.76E-07
leucine	rs1862711	T	G	0.0045	0.0009	3.76E-07
leucine	rs6429758	A	G	-0.0046	0.0009	3.75E-07
leucine	rs12026303	A	C	0.0045	0.0009	3.73E-07
leucine	rs4646012	T	C	0.0045	0.0009	3.73E-07
leucine	rs130561	A	C	-0.0046	0.0009	3.61E-07
leucine	rs6475359	A	G	-0.0046	0.0009	3.57E-07
leucine	rs4661637	C	G	-0.0046	0.0009	3.55E-07

leucine	rs1558789	A	C	0.0045	0.0009	3.52E-07
leucine	rs4397374	T	C	-0.0046	0.0009	3.37E-07
leucine	rs3107054	T	C	-0.0046	0.0009	3.35E-07
leucine	rs11988092	T	C	-0.0046	0.0009	3.29E-07
leucine	rs10810580	T	C	0.0046	0.0009	3.28E-07
leucine	rs7310388	T	C	0.0046	0.0009	3.25E-07
leucine	rs4646011	T	C	-0.0046	0.0009	3.20E-07
leucine	rs7134490	A	G	-0.0046	0.0009	3.18E-07
leucine	rs11108245	T	C	0.0046	0.0009	3.11E-07
leucine	rs10859937	C	G	-0.0046	0.0009	3.11E-07
leucine	rs1172258	T	C	-0.0046	0.0009	3.10E-07
leucine	rs7133477	T	C	-0.0046	0.0009	3.03E-07
leucine	rs7304659	T	C	0.0046	0.0009	3.03E-07
leucine	rs7420162	C	G	0.005	0.001	2.70E-07
leucine	rs5018486	A	C	0.005	0.001	2.70E-07
leucine	rs440752	T	C	-0.0046	0.0009	2.69E-07
leucine	rs10507061	C	G	-0.0046	0.0009	2.68E-07
leucine	rs10777730	C	G	-0.0046	0.0009	2.68E-07
leucine	rs3107048	A	G	0.0046	0.0009	2.66E-07
leucine	rs4415279	A	C	0.0046	0.0009	2.66E-07
leucine	rs7137008	A	G	0.0046	0.0009	2.60E-07
leucine	rs417144	T	C	0.0046	0.0009	2.57E-07
leucine	rs3102536	A	G	-0.0046	0.0009	2.51E-07
leucine	rs9289408	T	C	0.0047	0.0009	2.45E-07
leucine	rs911981	A	G	-0.0047	0.0009	2.40E-07
leucine	rs2042370	A	G	0.0046	0.0009	2.36E-07
leucine	rs1884639	T	C	0.0047	0.0009	2.32E-07
leucine	rs3102535	T	C	0.0046	0.0009	2.30E-07

leucine	rs3102532	T	C	0.0047	0.0009	2.26E-07
leucine	rs6833720	A	G	-0.0046	0.0009	2.22E-07
leucine	rs1484590	T	C	-0.0047	0.0009	2.22E-07
leucine	rs3102534	T	C	0.0047	0.0009	2.21E-07
leucine	rs10877687	C	G	0.0047	0.0009	2.18E-07
leucine	rs893970	T	C	-0.0076	0.0015	2.07E-07
leucine	rs3102528	T	C	0.0047	0.0009	2.04E-07
leucine	rs4758270	A	G	-0.0048	0.0009	2.01E-07
leucine	rs477992	A	G	-0.0047	0.0009	2.00E-07
leucine	rs3102530	A	G	0.0047	0.0009	1.99E-07
leucine	rs13147572	A	G	-0.0047	0.0009	1.99E-07
leucine	rs3102531	T	C	0.0047	0.0009	1.98E-07
leucine	rs951134	A	T	0.0047	0.0009	1.93E-07
leucine	rs2454043	A	C	-0.0047	0.0009	1.85E-07
leucine	rs2020900	A	T	0.0047	0.0009	1.77E-07
leucine	rs4741887	A	G	-0.0047	0.0009	1.68E-07
leucine	rs4140704	C	G	0.0047	0.0009	1.63E-07
leucine	rs2218439	A	G	-0.0047	0.0009	1.61E-07
leucine	rs3107047	A	G	0.0047	0.0009	1.60E-07
leucine	rs2585204	A	C	0.0047	0.0009	1.58E-07
leucine	rs10911251	A	C	-0.0047	0.0009	1.58E-07
leucine	rs248121	A	G	-0.0047	0.0009	1.58E-07
leucine	rs7838999	A	G	-0.0047	0.0009	1.56E-07
leucine	rs4795552	A	G	-0.0047	0.0009	1.55E-07
leucine	rs7825809	T	C	-0.0047	0.0009	1.55E-07
leucine	rs5003492	A	G	-0.0047	0.0009	1.55E-07
leucine	rs3102518	T	C	0.0047	0.0009	1.55E-07
leucine	rs3107050	T	C	-0.0047	0.0009	1.45E-07

leucine	rs472920	A	G	0.0047	0.0009	1.44E-07
leucine	rs2471653	A	G	0.0047	0.0009	1.41E-07
leucine	rs248067	A	G	0.0047	0.0009	1.41E-07
leucine	rs242082	T	C	0.0048	0.0009	1.38E-07
leucine	rs3935333	T	G	-0.0047	0.0009	1.30E-07
leucine	rs945587	T	C	0.0048	0.0009	1.29E-07
leucine	rs17789027	A	G	-0.0076	0.0014	1.29E-07
leucine	rs6429759	T	C	0.0048	0.0009	1.28E-07
leucine	rs1654503	A	G	-0.0048	0.0009	1.26E-07
leucine	rs3980014	T	C	0.0047	0.0009	1.25E-07
leucine	rs2042367	T	C	0.0047	0.0009	1.25E-07
leucine	rs1654499	T	C	0.0048	0.0009	1.25E-07
leucine	rs10754895	T	G	0.0047	0.0009	1.23E-07
leucine	rs1654498	T	C	0.0048	0.0009	1.21E-07
leucine	rs2446347	T	C	-0.0048	0.0009	1.18E-07
leucine	rs10763940	A	G	0.0048	0.0009	1.17E-07
leucine	rs1862710	A	G	0.0047	0.0009	1.17E-07
leucine	rs2471650	T	C	-0.0048	0.0009	1.16E-07
leucine	rs248065	A	G	-0.0048	0.0009	1.13E-07
leucine	rs3102529	A	G	0.0048	0.0009	1.11E-07
leucine	rs11774098	A	C	-0.0048	0.0009	1.09E-07
leucine	rs1952935	A	C	-0.0048	0.0009	1.07E-07
leucine	rs1654495	A	C	0.0048	0.0009	1.04E-07
leucine	rs2722276	A	G	0.0048	0.0009	8.70E-08
leucine	rs1043991	T	C	0.0048	0.0009	8.33E-08
leucine	rs1541245	T	C	-0.0048	0.0009	7.99E-08
leucine	rs3102519	A	G	0.0048	0.0009	7.83E-08
leucine	rs2634945	T	C	0.0048	0.0009	7.77E-08

leucine	rs2465250	A	C	0.0048	0.0009	7.76E-08
leucine	rs1733198	A	G	0.0049	0.0009	7.62E-08
leucine	rs1463301	T	C	-0.0049	0.0009	7.49E-08
leucine	rs7584322	A	C	-0.0048	0.0009	7.03E-08
leucine	rs6703016	A	T	0.0049	0.0009	6.71E-08
leucine	rs690377	A	G	0.0049	0.0009	5.92E-08
leucine	rs7915	A	C	-0.0049	0.0009	5.82E-08
leucine	rs978346	C	G	-0.0049	0.0009	5.73E-08
leucine	rs7740614	A	G	-0.0049	0.0009	4.75E-08
leucine	rs6820313	T	G	0.0049	0.0009	4.65E-08
leucine	rs10922999	A	C	0.0049	0.0009	4.01E-08
leucine	rs9541214	T	C	-0.005	0.0009	3.40E-08
leucine	rs1871053	A	G	-0.005	0.0009	2.40E-08
leucine	rs7584842	T	C	-0.0051	0.0009	1.89E-08
leucine	rs1881909	A	G	0.0051	0.0009	1.65E-08
leucine	rs6737109	T	C	0.0051	0.0009	1.45E-08
leucine	rs6820011	T	G	-0.0051	0.0009	1.18E-08
leucine	rs6735596	A	C	-0.0052	0.0009	1.15E-08
leucine	rs7647029	A	G	0.0053	0.0009	1.02E-08
leucine	rs10923016	A	G	0.0053	0.0009	2.88E-09
leucine	rs2713737	A	G	-0.006	0.001	1.97E-09
leucine	rs881561	A	G	0.0059	0.0009	4.68E-11
leucine	rs10024717	A	G	0.0065	0.0009	4.87E-13
leucine	rs17789621	T	C	0.0066	0.0009	4.70E-13
leucine	rs4693209	C	G	0.0065	0.0009	2.88E-13
leucine	rs9637599	A	C	-0.0066	0.0009	2.09E-13
leucine	rs4423843	A	G	-0.0067	0.0009	1.44E-13
leucine	rs17789147	C	G	-0.0067	0.0009	9.94E-14

leucine	rs6819344	A	C	0.0067	0.0009	9.53E-14
leucine	rs893971	A	G	-0.0067	0.0009	8.30E-14
leucine	rs2869926	T	C	0.0067	0.0009	8.16E-14
leucine	rs7660693	T	C	-0.0071	0.0009	2.08E-15
leucine	rs6841731	A	G	0.0071	0.0009	1.48E-15
leucine	rs1975393	T	C	0.0072	0.0009	1.48E-15
leucine	rs7678928	T	C	0.0071	0.0009	1.42E-15
leucine	rs1440581	T	C	-0.0081	0.0009	1.44E-19
lysine	rs1714369	A	G	0.0079	0.0018	9.55E-06
lysine	rs4443014	A	T	-0.0077	0.0017	9.27E-06
lysine	rs11600689	A	T	-0.0103	0.0023	9.14E-06
lysine	rs4317453	A	G	-0.0077	0.0017	9.12E-06
lysine	rs2584291	A	G	0.0079	0.0018	9.09E-06
lysine	rs2018053	A	C	0.0077	0.0017	8.87E-06
lysine	rs2383208	A	G	0.0078	0.0017	8.79E-06
lysine	rs4785155	T	C	-0.008	0.0018	8.77E-06
lysine	rs2584505	T	C	-0.0079	0.0018	8.54E-06
lysine	rs4413056	T	G	0.0076	0.0017	8.26E-06
lysine	rs1402325	A	G	-0.008	0.0018	8.23E-06
lysine	rs1627020	A	G	0.0079	0.0018	8.10E-06
lysine	rs1465467	T	C	0.0072	0.0016	7.67E-06
lysine	rs10738383	A	G	-0.0131	0.0029	7.39E-06
lysine	rs1562480	A	C	0.0078	0.0017	7.05E-06
lysine	rs13302218	A	G	-0.0118	0.0026	6.80E-06
lysine	rs10165613	T	C	-0.0078	0.0017	6.79E-06
lysine	rs13339263	A	G	-0.0081	0.0018	6.52E-06
lysine	rs8045344	A	G	0.0078	0.0017	6.16E-06
lysine	rs1559377	A	T	0.0079	0.0017	5.83E-06

lysine	rs12268257	T	C	-0.0082	0.0018	5.59E-06
lysine	rs3843711	A	G	-0.0078	0.0017	5.55E-06
lysine	rs2849799	T	C	-0.008	0.0018	5.51E-06
lysine	rs1574668	A	G	-0.0079	0.0017	5.49E-06
lysine	rs2849800	A	G	0.008	0.0018	5.49E-06
lysine	rs2849801	A	T	0.008	0.0018	5.41E-06
lysine	rs2584296	T	C	0.008	0.0018	5.40E-06
lysine	rs4426541	A	G	-0.0079	0.0017	5.40E-06
lysine	rs12919468	C	G	-0.0079	0.0017	5.38E-06
lysine	rs2584504	T	C	0.008	0.0018	5.33E-06
lysine	rs6586928	C	G	-0.0083	0.0018	5.32E-06
lysine	rs2018058	T	C	0.0079	0.0017	5.18E-06
lysine	rs12599226	A	G	0.0079	0.0017	5.08E-06
lysine	rs918787	A	G	0.0079	0.0017	5.02E-06
lysine	rs6996129	A	T	0.0083	0.0018	4.96E-06
lysine	rs6984590	T	C	0.0083	0.0018	4.93E-06
lysine	rs1122720	A	G	-0.0075	0.0016	4.80E-06
lysine	rs1450295	T	C	0.0083	0.0018	4.29E-06
lysine	rs3760001	A	G	0.0075	0.0016	4.28E-06
lysine	rs2166767	A	G	-0.0075	0.0016	4.27E-06
lysine	rs2166768	T	G	0.0075	0.0016	4.25E-06
lysine	rs7185173	T	G	0.008	0.0017	4.10E-06
lysine	rs11649059	T	C	-0.008	0.0017	4.01E-06
lysine	rs11075678	C	G	-0.008	0.0017	4.00E-06
lysine	rs3909545	T	C	-0.008	0.0017	4.00E-06
lysine	rs1169467	T	C	-0.012	0.0026	3.92E-06
lysine	rs10491431	A	C	0.0082	0.0018	3.80E-06
lysine	rs7010567	T	C	0.0084	0.0018	3.64E-06

lysine	rs12124982	T	C	-0.0083	0.0018	3.41E-06
lysine	rs1822703	A	G	0.0083	0.0018	3.41E-06
lysine	rs1373510	C	G	-0.0083	0.0018	3.41E-06
lysine	rs12139545	A	C	0.0083	0.0018	3.41E-06
lysine	rs7536844	A	G	0.0083	0.0018	3.39E-06
lysine	rs12078054	A	G	-0.0084	0.0018	3.37E-06
lysine	rs1627802	A	G	0.0082	0.0018	3.35E-06
lysine	rs1444448	T	C	-0.0084	0.0018	3.33E-06
lysine	rs12130248	T	C	0.0084	0.0018	3.31E-06
lysine	rs12139865	C	G	-0.0084	0.0018	3.29E-06
lysine	rs3024547	T	C	-0.0083	0.0018	3.28E-06
lysine	rs1373512	T	C	0.0084	0.0018	3.25E-06
lysine	rs1373513	T	C	-0.0084	0.0018	3.24E-06
lysine	rs1373514	A	G	-0.0084	0.0018	3.24E-06
lysine	rs7412951	A	G	0.0084	0.0018	3.23E-06
lysine	rs4568805	T	C	0.0084	0.0018	3.16E-06
lysine	rs12132329	A	C	0.0084	0.0018	3.16E-06
lysine	rs12126454	T	C	-0.0084	0.0018	3.16E-06
lysine	rs12118820	T	C	0.0084	0.0018	2.97E-06
lysine	rs6700291	C	G	0.0084	0.0018	2.94E-06
lysine	rs9943204	T	C	0.0084	0.0018	2.94E-06
lysine	rs12143711	A	T	-0.0084	0.0018	2.94E-06
lysine	rs4600028	C	G	0.0084	0.0018	2.94E-06
lysine	rs12144726	T	G	-0.0084	0.0018	2.94E-06
lysine	rs10799977	C	G	-0.0084	0.0018	2.91E-06
lysine	rs11075673	A	G	0.0076	0.0016	2.88E-06
lysine	rs1750	A	G	0.0081	0.0017	2.86E-06
lysine	rs10850904	T	C	0.0085	0.0018	2.74E-06

lysine	rs7583413	T	C	0.0082	0.0017	2.62E-06
lysine	rs3785125	A	T	0.0077	0.0016	2.60E-06
lysine	rs16824651	T	C	0.0085	0.0018	2.54E-06
lysine	rs2279539	A	G	0.0077	0.0016	2.30E-06
lysine	rs10095414	A	G	0.0086	0.0018	2.29E-06
lysine	rs3785129	A	G	0.0077	0.0016	2.21E-06
lysine	rs4431822	A	G	0.0088	0.0019	2.21E-06
lysine	rs11659807	C	G	-0.0082	0.0017	2.16E-06
lysine	rs2584484	T	C	0.0085	0.0018	2.13E-06
lysine	rs11649243	T	C	-0.0083	0.0018	2.11E-06
lysine	rs1992858	C	G	-0.0082	0.0017	2.10E-06
lysine	rs3024554	T	G	-0.0085	0.0018	2.03E-06
lysine	rs10153417	C	G	-0.0085	0.0018	1.96E-06
lysine	rs16824639	A	G	-0.0086	0.0018	1.92E-06
lysine	rs1894947	T	C	0.0083	0.0017	1.85E-06
lysine	rs3024544	T	C	-0.0085	0.0018	1.83E-06
lysine	rs3024543	A	G	-0.0085	0.0018	1.80E-06
lysine	rs11151130	A	G	0.0085	0.0018	1.79E-06
lysine	rs3024537	A	G	-0.0085	0.0018	1.71E-06
lysine	rs3024536	T	C	-0.0085	0.0018	1.69E-06
lysine	rs10917910	A	C	-0.0086	0.0018	1.65E-06
lysine	rs1364344	T	C	-0.0083	0.0017	1.55E-06
lysine	rs1834101	T	G	0.0083	0.0017	1.50E-06
lysine	rs1019544	T	C	-0.0083	0.0017	1.41E-06
lysine	rs4354926	A	G	0.0083	0.0017	1.41E-06
lysine	rs11648294	T	G	0.0084	0.0017	1.41E-06
lysine	rs2863981	A	G	-0.008	0.0016	1.35E-06
lysine	rs1974903	T	C	0.0084	0.0017	1.32E-06

lysine	rs11648252	C	G	-0.0084	0.0017	1.32E-06
lysine	rs9642758	A	G	0.0086	0.0018	1.28E-06
lysine	rs7500305	T	G	-0.0084	0.0017	1.28E-06
lysine	rs2166769	T	C	-0.0084	0.0017	1.28E-06
lysine	rs4783631	T	C	0.0084	0.0017	1.24E-06
lysine	rs1552752	A	G	0.0084	0.0017	1.22E-06
lysine	rs4783633	T	C	0.0084	0.0017	1.16E-06
lysine	rs2863975	T	C	-0.008	0.0016	1.08E-06
lysine	rs7572149	T	C	0.0088	0.0018	1.00E-06
lysine	rs1963362	A	C	-0.0085	0.0017	9.87E-07
lysine	rs1125848	T	C	-0.0085	0.0017	9.80E-07
lysine	rs1573544	T	C	0.0087	0.0018	9.64E-07
lysine	rs1179979	A	G	-0.0128	0.0026	9.49E-07
lysine	rs12917815	A	G	-0.0084	0.0017	8.47E-07
lysine	rs10852445	C	G	-0.0086	0.0017	6.39E-07
lysine	rs1808451	A	G	-0.0086	0.0017	6.33E-07
lysine	rs1541709	A	C	-0.0086	0.0017	6.27E-07
lysine	rs889794	T	C	-0.0086	0.0017	6.20E-07
lysine	rs4783638	T	C	-0.0087	0.0017	5.42E-07
lysine	rs4783637	T	C	-0.0087	0.0017	5.39E-07
lysine	rs4783636	T	C	-0.0087	0.0017	5.37E-07
lysine	rs7184977	T	C	-0.0087	0.0017	5.25E-07
lysine	rs2161672	A	G	-0.0087	0.0017	5.12E-07
lysine	rs6499176	C	G	0.0087	0.0017	4.81E-07
lysine	rs6499175	A	G	0.0087	0.0017	4.81E-07
lysine	rs12444619	A	C	0.0087	0.0017	4.72E-07
lysine	rs4783629	A	G	0.0087	0.0017	4.36E-07
lysine	rs12927959	A	G	0.0089	0.0018	3.76E-07

lysine	rs1868157	C	G	0.0083	0.0016	3.73E-07
lysine	rs1124585	T	C	0.0084	0.0016	3.52E-07
lysine	rs9937560	A	C	0.0089	0.0017	2.39E-07
lysine	rs9889191	T	C	0.0084	0.0016	2.39E-07
lysine	rs6587731	T	G	-0.0093	0.0018	1.96E-07
lysine	rs10775303	T	G	0.0085	0.0016	1.75E-07
lysine	rs9928605	T	C	0.0085	0.0016	1.73E-07
lysine	rs1552751	T	C	0.0091	0.0017	1.26E-07
lysine	rs1110571	A	T	0.0086	0.0016	1.24E-07
lysine	rs13336173	T	C	0.0086	0.0016	1.22E-07
lysine	rs3743742	T	G	0.0086	0.0016	1.22E-07
lysine	rs1868158	T	C	0.0086	0.0016	1.19E-07
lysine	rs9934232	C	G	-0.0086	0.0016	1.18E-07
lysine	rs1968757	A	G	0.0086	0.0016	1.03E-07
lysine	rs11647934	A	G	0.0091	0.0017	9.73E-08
lysine	rs9935025	T	C	-0.0088	0.0016	6.25E-08
lysine	rs10852446	A	C	0.0093	0.0017	6.07E-08
lysine	rs4783616	A	G	0.0089	0.0016	4.13E-08
lysine	rs1127773	A	G	0.009	0.0016	3.06E-08
lysine	rs9788810	A	G	0.009	0.0016	2.91E-08
lysine	rs889797	T	G	-0.0098	0.0018	2.44E-08
lysine	rs3785111	A	T	-0.0092	0.0016	1.51E-08
lysine	rs12444616	A	G	0.01	0.0017	7.55E-09
lysine	rs1111574	A	G	0.0094	0.0016	7.45E-09
lysine	rs1111572	A	G	0.0094	0.0016	7.45E-09
lysine	rs2307022	A	G	-0.0098	0.0017	3.70E-09
lysine	rs9931501	A	G	-0.0101	0.0017	2.49E-09
lysine	rs11644360	T	C	0.0097	0.0016	2.27E-09

lysine	rs2290698	A	G	0.0099	0.0016	1.08E-09
lysine	rs3785115	T	G	-0.01	0.0016	6.66E-10
lysine	rs3803650	T	C	0.0101	0.0016	4.52E-10
lysine	rs4783618	A	G	-0.0101	0.0016	3.76E-10
lysine	rs1868159	A	C	-0.0106	0.0017	2.49E-10
lysine	rs4783619	T	C	-0.0103	0.0016	2.39E-10
lysine	rs9933029	A	G	-0.0104	0.0016	2.07E-10
lysine	rs1530644	A	G	0.0107	0.0017	1.80E-10
lysine	rs7192234	C	G	-0.0107	0.0017	1.78E-10
lysine	rs1530643	T	C	-0.0107	0.0017	1.70E-10
lysine	rs1465468	A	G	-0.0107	0.0017	1.68E-10
lysine	rs4783615	A	G	0.0106	0.0016	7.51E-11
lysine	rs2863978	T	C	-0.0106	0.0016	5.86E-11
lysine	rs4783552	T	C	-0.0109	0.0016	3.66E-11
lysine	rs10775304	T	C	0.0112	0.0017	2.72E-11
lysine	rs3760002	A	G	-0.0112	0.0017	2.52E-11
lysine	rs1110570	C	G	0.0112	0.0017	2.47E-11
lysine	rs4783558	A	G	-0.0112	0.0017	2.11E-11
lysine	rs4783554	A	G	-0.0114	0.0017	1.08E-11
lysine	rs7672	C	G	-0.012	0.0017	4.51E-12
lysine	rs7199750	C	G	-0.0121	0.0017	4.52E-13
lysine	rs4783553	T	C	0.0122	0.0017	4.31E-13
lysine	rs3785114	C	G	-0.0126	0.0017	1.89E-13
lysine	rs6499172	A	G	-0.0125	0.0017	1.06E-13
lysine	rs1111571	A	G	0.0128	0.0017	1.81E-14
lysine	rs7194378	A	G	0.0129	0.0017	1.12E-14
lysine	rs4381598	A	G	0.0129	0.0017	8.22E-15
lysine	rs3961282	T	C	-0.0132	0.0017	4.41E-15

lysine	rs6499165	A	C	-0.0136	0.0017	6.94E-16
lysine	rs6499166	A	G	0.0136	0.0017	4.37E-16
lysine	rs8056893	A	C	0.0143	0.0017	2.08E-17
lysine	rs6499167	A	T	0.0143	0.0017	1.95E-17
lysine	rs2863979	A	G	0.0143	0.0017	1.44E-17
malate	rs1244488	T	C	-0.0116	0.0026	9.95E-06
malate	rs1244495	T	G	-0.0116	0.0026	9.85E-06
malate	rs9471841	T	C	-0.0275	0.0062	9.84E-06
malate	rs2026395	A	T	-0.0116	0.0026	9.82E-06
malate	rs690191	T	C	-0.0121	0.0027	9.23E-06
malate	rs12352349	T	G	-0.0192	0.0043	9.08E-06
malate	rs17152953	A	C	-0.1002	0.0225	8.74E-06
malate	rs7840926	T	C	-0.1003	0.0225	8.22E-06
malate	rs1157434	A	G	-0.0119	0.0027	7.95E-06
malate	rs7010256	C	G	0.1003	0.0224	7.58E-06
malate	rs13001931	A	G	-0.0119	0.0027	7.49E-06
malate	rs1589133	C	G	0.012	0.0027	7.03E-06
malate	rs12713120	T	C	0.0122	0.0027	6.74E-06
malate	rs2177544	T	C	0.012	0.0027	6.68E-06
malate	rs4666764	T	C	0.012	0.0027	6.62E-06
malate	rs1829305	T	G	-0.012	0.0027	6.61E-06
malate	rs11902285	A	G	-0.012	0.0027	6.61E-06
malate	rs1878650	T	C	0.012	0.0027	6.61E-06
malate	rs1607315	A	G	0.012	0.0027	6.60E-06
malate	rs1996458	A	T	0.012	0.0027	6.60E-06
malate	rs1850553	A	G	0.012	0.0027	6.60E-06
malate	rs13017203	A	T	-0.012	0.0027	6.60E-06
malate	rs1568235	T	G	0.012	0.0027	6.53E-06

malate	rs3856335	T	C	0.012	0.0027	6.32E-06
malate	rs7569461	A	G	-0.012	0.0027	6.31E-06
malate	rs4768795	T	G	0.0195	0.0043	6.19E-06
malate	rs10166484	T	C	-0.0121	0.0027	5.29E-06
malate	rs12646713	T	C	-0.0122	0.0027	5.28E-06
malate	rs11097214	T	C	0.0122	0.0027	5.25E-06
malate	rs13124770	T	G	0.0122	0.0027	5.24E-06
malate	rs13148714	A	G	0.0122	0.0027	5.24E-06
malate	rs1708674	A	C	0.0123	0.0027	4.31E-06
malate	rs756176	T	C	0.0123	0.0027	4.29E-06
malate	rs1795731	T	C	-0.0123	0.0027	4.29E-06
malate	rs2670625	T	C	-0.0123	0.0027	4.12E-06
malate	rs1939471	A	G	-0.0123	0.0027	4.06E-06
malate	rs8073225	T	C	-0.013	0.0028	3.94E-06
malate	rs10990303	T	C	-0.0129	0.0028	3.94E-06
malate	rs756175	A	G	0.0124	0.0027	3.90E-06
malate	rs2869990	T	C	-0.0125	0.0027	2.83E-06
malate	rs9600408	T	C	-0.1036	0.022	2.58E-06
malate	rs35533	A	C	0.0125	0.0026	2.40E-06
malate	rs26735	A	G	0.0126	0.0026	2.12E-06
malate	rs164837	A	G	-0.0126	0.0026	1.97E-06
malate	rs726900	T	G	0.0173	0.0036	1.59E-06
malate	rs2288867	T	C	-0.0132	0.0027	1.02E-06
malate	rs6502051	A	C	-0.0129	0.0026	9.56E-07
malate	rs7225637	A	G	0.013	0.0026	9.53E-07
malate	rs352602	A	G	-0.0131	0.0026	7.00E-07
malate	rs42449	T	C	-0.0131	0.0026	6.49E-07
malate	rs164693	T	C	0.0132	0.0026	5.77E-07

malate	rs149382	T	C	-0.0133	0.0026	4.74E-07
malate	rs35419	A	G	-0.0134	0.0026	4.34E-07
malate	rs8071737	T	C	0.0135	0.0026	3.36E-07
malate	rs9905991	A	G	-0.0135	0.0026	2.69E-07
malate	rs912170	A	G	-0.0186	0.0036	2.09E-07
malate	rs9674648	A	G	0.0138	0.0026	1.37E-07
malate	rs10899384	A	G	0.0139	0.0026	1.27E-07
malate	rs26726	A	G	-0.014	0.0026	1.26E-07
malate	rs26724	A	G	0.014	0.0026	1.26E-07
malate	rs8082212	C	G	-0.0142	0.0027	9.69E-08
malate	rs4239020	T	C	-0.0142	0.0027	9.65E-08
malate	rs9944398	A	G	0.0142	0.0027	9.59E-08
malate	rs2228309	A	G	-0.0141	0.0026	9.41E-08
malate	rs6502057	A	G	-0.0141	0.0026	8.45E-08
malate	rs6416857	A	G	-0.0141	0.0026	8.11E-08
malate	rs8080423	A	G	0.0142	0.0026	6.83E-08
malate	rs9747201	A	C	0.0144	0.0027	6.29E-08
malate	rs8082577	T	C	-0.0143	0.0026	5.85E-08
malate	rs6502055	T	G	0.0143	0.0026	5.79E-08
malate	rs6502056	C	G	-0.0143	0.0026	5.77E-08
malate	rs8072702	T	C	0.0143	0.0026	5.74E-08
malate	rs7406163	T	C	0.0144	0.0026	5.11E-08
malate	rs11654584	A	T	0.0145	0.0027	5.00E-08
malate	rs3088177	A	G	0.0145	0.0026	3.78E-08
malate	rs9747668	A	G	0.0148	0.0027	3.35E-08
malate	rs7226049	A	G	-0.0145	0.0026	3.16E-08
malate	rs7502676	C	G	0.0147	0.0026	2.63E-08
malate	rs9911379	A	G	0.0146	0.0026	2.44E-08

malate	rs4789698	T	C	-0.0148	0.0026	1.72E-08
malate	rs8070014	T	G	0.0149	0.0026	1.54E-08
malate	rs4789670	T	C	0.015	0.0026	1.34E-08
malate	rs8078087	T	G	0.015	0.0026	1.28E-08
malate	rs7503225	A	C	-0.015	0.0026	1.28E-08
malate	rs7501461	T	C	-0.015	0.0026	1.28E-08
malate	rs6502070	A	G	-0.015	0.0026	1.28E-08
malate	rs3935128	T	C	0.015	0.0026	1.28E-08
malate	rs6502068	T	C	-0.015	0.0026	1.28E-08
malate	rs12150589	A	T	0.0152	0.0027	1.26E-08
malate	rs12051747	T	C	0.015	0.0026	1.25E-08
malate	rs8080625	A	G	-0.015	0.0026	1.19E-08
malate	rs9891378	T	C	0.015	0.0026	1.14E-08
malate	rs7502078	A	C	-0.0151	0.0026	1.04E-08
malate	rs4789675	A	G	-0.0151	0.0026	1.04E-08
malate	rs9904237	A	G	-0.0151	0.0026	1.04E-08
malate	rs12945993	T	C	0.0151	0.0026	1.04E-08
malate	rs8073679	A	G	-0.0151	0.0026	1.04E-08
malate	rs6502078	A	G	-0.0151	0.0026	1.04E-08
malate	rs9898326	T	C	-0.0151	0.0026	1.04E-08
malate	rs4132775	T	C	-0.0151	0.0026	1.04E-08
malate	rs12950475	T	C	0.0151	0.0026	1.04E-08
malate	rs11491185	T	C	-0.0151	0.0026	1.04E-08
malate	rs8081783	A	G	-0.0151	0.0026	1.04E-08
malate	rs4641801	A	G	-0.0151	0.0026	1.04E-08
malate	rs7209474	T	C	-0.0151	0.0026	1.04E-08
malate	rs7220639	A	G	-0.0151	0.0026	1.04E-08
malate	rs3935816	T	C	-0.0151	0.0026	1.04E-08

malate	rs9891962	T	C	0.0151	0.0026	1.04E-08
malate	rs8082355	A	G	0.0151	0.0026	1.04E-08
malate	rs9898542	T	C	-0.0151	0.0026	1.04E-08
malate	rs8081949	A	G	-0.0151	0.0026	1.04E-08
malate	rs8077926	A	C	-0.0151	0.0026	1.04E-08
malate	rs9898507	T	C	-0.0151	0.0026	1.04E-08
malate	rs4789720	C	G	-0.0151	0.0026	1.04E-08
malate	rs8066284	T	C	-0.0151	0.0026	1.04E-08
malate	rs9916231	T	C	0.0151	0.0026	9.89E-09
malate	rs4789671	T	C	-0.0152	0.0026	8.58E-09
malate	rs8077772	T	C	-0.0151	0.0026	8.40E-09
malate	rs7221544	T	C	0.0151	0.0026	8.35E-09
malate	rs11077969	A	G	-0.0151	0.0026	8.31E-09
malate	rs11658335	T	C	0.0152	0.0026	8.27E-09
malate	rs7217625	T	C	0.0152	0.0026	8.03E-09
malate	rs7406220	T	C	-0.0152	0.0026	8.03E-09
malate	rs4459614	T	C	0.0152	0.0026	7.46E-09
malate	rs7215277	A	C	-0.0153	0.0026	6.92E-09
malate	rs4789668	T	C	-0.0153	0.0026	6.88E-09
malate	rs8079388	A	C	-0.0153	0.0026	6.12E-09
malate	rs4625783	T	C	-0.0153	0.0026	6.10E-09
malate	rs7208673	C	G	-0.0153	0.0026	6.04E-09
malate	rs4247357	T	G	-0.0153	0.0026	6.03E-09
malate	rs8067875	T	C	-0.0153	0.0026	4.68E-09
malate	rs4789754	A	G	-0.0153	0.0026	4.57E-09
malate	rs8071425	T	C	0.0154	0.0026	4.15E-09
malate	rs6502050	C	G	-0.0158	0.0026	2.21E-09
malate	rs7503429	A	C	-0.016	0.0026	1.64E-09

mannitol	rs11100475	T	C	0.0451	0.0102	9.05E-06
mannitol	rs6657899	T	G	0.1908	0.0427	7.96E-06
mannitol	rs7563517	A	T	-0.0783	0.0175	7.67E-06
mannitol	rs7240261	T	C	0.0565	0.0126	7.52E-06
mannitol	rs2365522	A	C	0.0442	0.0098	6.70E-06
mannitol	rs4917405	T	C	0.0972	0.0215	6.28E-06
mannitol	rs10811658	A	G	-0.0611	0.0135	6.22E-06
mannitol	rs1519608	T	C	0.0766	0.0169	5.84E-06
mannitol	rs10848807	A	C	-0.0439	0.0097	5.75E-06
mannitol	rs10017961	A	G	0.0486	0.0107	5.62E-06
mannitol	rs1998053	A	G	0.0724	0.0159	5.60E-06
mannitol	rs588513	A	G	0.041	0.009	5.06E-06
mannitol	rs488225	A	G	-0.0411	0.009	4.87E-06
mannitol	rs17154865	T	C	0.245	0.053	3.79E-06
mannitol	rs6434811	T	C	-0.0785	0.0169	3.52E-06
mannitol	rs4404993	T	G	0.0964	0.0207	3.22E-06
mannitol	rs11487092	A	G	0.248	0.053	2.88E-06
mannitol	rs16967757	T	C	0.0495	0.0103	1.43E-06
mannitol	rs7184992	T	C	0.0807	0.0167	1.31E-06
methionine	rs1015960	A	T	-0.0062	0.0014	9.96E-06
methionine	rs4442034	T	G	-0.0074	0.0017	9.78E-06
methionine	rs6071993	A	C	-0.0072	0.0016	9.46E-06
methionine	rs11925382	T	C	-0.0075	0.0017	9.00E-06
methionine	rs885076	A	G	-0.0074	0.0017	8.75E-06
methionine	rs2066415	T	C	0.0065	0.0015	8.63E-06
methionine	rs9598467	T	C	-0.0077	0.0017	8.49E-06
methionine	rs4693555	T	C	-0.0069	0.0016	8.43E-06
methionine	rs1742639	A	G	0.0077	0.0017	7.94E-06

methionine	rs11760350	A	G	-0.0075	0.0017	7.77E-06
methionine	rs6065221	T	C	-0.0073	0.0016	7.50E-06
methionine	rs6028977	A	G	-0.0073	0.0016	7.32E-06
methionine	rs9592191	A	T	-0.0077	0.0017	7.28E-06
methionine	rs11843809	T	C	0.0077	0.0017	7.19E-06
methionine	rs6766715	A	G	-0.009	0.002	6.80E-06
methionine	rs6065223	A	T	-0.0073	0.0016	6.60E-06
methionine	rs7327981	A	G	0.0078	0.0017	6.55E-06
methionine	rs7570141	A	G	-0.0119	0.0026	6.21E-06
methionine	rs7332470	T	C	0.0079	0.0017	5.70E-06
methionine	rs8001701	A	G	0.0078	0.0017	5.56E-06
methionine	rs9598454	A	G	0.0079	0.0017	5.54E-06
methionine	rs7981934	C	G	-0.0079	0.0017	5.52E-06
methionine	rs9410970	A	C	-0.0068	0.0015	5.49E-06
methionine	rs13378225	T	G	-0.0079	0.0017	5.29E-06
methionine	rs9598457	T	C	-0.0079	0.0017	5.24E-06
methionine	rs7336673	T	C	0.0079	0.0017	5.23E-06
methionine	rs9598459	A	G	0.0079	0.0017	5.17E-06
methionine	rs10055021	A	G	-0.0154	0.0034	5.06E-06
methionine	rs6008770	T	C	-0.0075	0.0016	4.96E-06
methionine	rs8135519	C	G	0.0077	0.0017	4.85E-06
methionine	rs3740996	A	G	0.0078	0.0017	4.33E-06
methionine	rs6960830	T	C	0.0078	0.0017	4.16E-06
methionine	rs6008767	C	G	-0.0077	0.0017	4.12E-06
methionine	rs2780242	T	C	-0.0083	0.0018	3.85E-06
methionine	rs320480	A	C	-0.0079	0.0017	3.84E-06
methionine	rs6071991	T	C	-0.0075	0.0016	3.81E-06
methionine	rs6533609	T	C	-0.0077	0.0017	3.78E-06

methionine	rs487946	T	G	-0.0074	0.0016	3.10E-06
methionine	rs10043188	A	G	0.0184	0.0039	2.97E-06
methionine	rs17478241	T	C	-0.0076	0.0016	2.75E-06
methionine	rs16839317	T	C	-0.0078	0.0017	2.75E-06
methionine	rs10066453	C	G	0.0165	0.0035	1.93E-06
methionine	rs2418886	A	G	0.0223	0.0047	1.63E-06
methionine	rs320481	T	G	0.0087	0.0017	4.94E-07
methionine	rs11232103	A	C	0.0085	0.0017	3.70E-07
methionine	rs320474	A	G	-0.0094	0.0017	5.22E-08
methionine	rs56964	A	G	-0.0094	0.0017	5.14E-08
methionine	rs320465	T	C	-0.0094	0.0017	5.05E-08
methionine	rs320485	T	C	0.0094	0.0017	4.97E-08
N- (3-furoyl)glycine	rs9812344	A	G	0.064	0.0144	9.46E-06
N- (3-furoyl)glycine	rs259779	A	G	-0.1106	0.0249	9.16E-06
N- (3-furoyl)glycine	rs9578250	T	C	-0.1113	0.0251	8.91E-06
N- (3-furoyl)glycine	rs9579745	T	C	-0.1114	0.0251	8.86E-06
N- (3-furoyl)glycine	rs9579758	T	C	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9579760	A	G	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9972003	A	G	-0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9315234	C	G	-0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9579750	A	G	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9971975	A	G	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9315279	T	C	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9578240	A	G	0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs9578247	A	G	-0.1115	0.0251	8.71E-06
N- (3-furoyl)glycine	rs8002955	C	G	-0.1115	0.0251	8.70E-06
N- (3-furoyl)glycine	rs10162233	A	G	-0.1115	0.0251	8.64E-06
N- (3-furoyl)glycine	rs9578251	T	G	-0.1115	0.0251	8.62E-06

N- (3-furoyl)glycine	rs9579770	T	C	-0.1115	0.0251	8.62E-06
N- (3-furoyl)glycine	rs8002415	C	G	-0.1114	0.025	8.62E-06
N- (3-furoyl)glycine	rs9579766	A	G	0.1115	0.0251	8.62E-06
N- (3-furoyl)glycine	rs9579764	A	G	0.1116	0.0251	8.62E-06
N- (3-furoyl)glycine	rs9315282	A	T	0.1115	0.0251	8.62E-06
N- (3-furoyl)glycine	rs7318279	T	C	0.1115	0.0251	8.62E-06
N- (3-furoyl)glycine	rs9578252	T	C	0.1115	0.0251	8.62E-06
N- (3-furoyl)glycine	rs9579772	T	C	0.1116	0.0251	8.60E-06
N- (3-furoyl)glycine	rs259800	T	C	-0.1116	0.0251	8.52E-06
N- (3-furoyl)glycine	rs259789	T	C	0.1116	0.0251	8.51E-06
N- (3-furoyl)glycine	rs9354127	A	G	-0.0678	0.0152	7.66E-06
N- (3-furoyl)glycine	rs9579777	A	G	0.1157	0.0258	7.63E-06
N- (3-furoyl)glycine	rs7988230	T	C	-0.1157	0.0258	7.63E-06
N- (3-furoyl)glycine	rs4679343	A	G	0.0632	0.0141	7.61E-06
N- (3-furoyl)glycine	rs17059109	A	G	-0.2195	0.049	7.52E-06
N- (3-furoyl)glycine	rs2474709	C	G	0.0674	0.015	7.34E-06
N- (3-furoyl)glycine	rs7638353	A	C	-0.1359	0.0301	6.48E-06
N- (3-furoyl)glycine	rs200549	A	C	-0.1186	0.0262	6.08E-06
N- (3-furoyl)glycine	rs17074497	A	G	-0.1139	0.0252	5.99E-06
N- (3-furoyl)glycine	rs13316446	A	G	0.0553	0.0121	5.32E-06
N- (3-furoyl)glycine	rs9579768	A	G	-0.1174	0.0258	5.17E-06
N- (3-furoyl)glycine	rs976636	T	G	-0.0534	0.0117	4.92E-06
N- (3-furoyl)glycine	rs6982420	T	C	0.1648	0.036	4.71E-06
N- (3-furoyl)glycine	rs259783	A	G	0.1144	0.0249	4.56E-06
N- (3-furoyl)glycine	rs260720	C	G	0.0858	0.0187	4.55E-06
N- (3-furoyl)glycine	rs11687178	A	C	-0.0554	0.0121	4.43E-06
N- (3-furoyl)glycine	rs1707082	T	G	-0.1567	0.0341	4.33E-06
N- (3-furoyl)glycine	rs1506811	T	C	-0.067	0.0146	4.32E-06

N- (3-furoyl)glycine	rs6994108	A	G	0.2358	0.0509	3.68E-06
N- (3-furoyl)glycine	rs260722	T	G	-0.0904	0.0195	3.57E-06
N- (3-furoyl)glycine	rs17809746	A	G	0.1197	0.0258	3.48E-06
N- (3-furoyl)glycine	rs6751915	T	G	-0.0563	0.0121	3.46E-06
N- (3-furoyl)glycine	rs11227132	A	G	-0.4069	0.0876	3.40E-06
N- (3-furoyl)glycine	rs12780044	T	C	-0.1675	0.036	3.24E-06
N- (3-furoyl)glycine	rs7338574	A	T	0.0544	0.0117	3.16E-06
N- (3-furoyl)glycine	rs11246881	C	G	-0.1783	0.0382	3.03E-06
N- (3-furoyl)glycine	rs4323189	A	T	0.1403	0.03	2.88E-06
N- (3-furoyl)glycine	rs5007461	A	C	-0.2141	0.0456	2.73E-06
N- (3-furoyl)glycine	rs4055938	A	G	0.0575	0.0122	2.57E-06
N- (3-furoyl)glycine	rs2277503	A	G	0.1351	0.0287	2.47E-06
N- (3-furoyl)glycine	rs2410135	T	C	0.3122	0.0662	2.41E-06
N- (3-furoyl)glycine	rs2104392	T	G	0.0553	0.0117	2.36E-06
N- (3-furoyl)glycine	rs9538444	T	C	-0.0553	0.0117	2.36E-06
N- (3-furoyl)glycine	rs2104393	T	C	0.0553	0.0117	2.36E-06
N- (3-furoyl)glycine	rs2501985	A	C	-0.0684	0.0145	2.30E-06
N- (3-furoyl)glycine	rs16961861	A	G	-0.3862	0.0812	1.95E-06
N- (3-furoyl)glycine	rs2649635	A	C	0.0949	0.0199	1.88E-06
N- (3-furoyl)glycine	rs260727	A	G	0.1132	0.0233	1.16E-06
N- (3-furoyl)glycine	rs10072432	T	C	0.3673	0.0754	1.10E-06
N- (3-furoyl)glycine	rs260725	T	G	-0.0954	0.0195	1.04E-06
N- (3-furoyl)glycine	rs2951176	A	G	0.4066	0.0832	1.01E-06
N- (3-furoyl)glycine	rs1529275	A	C	0.4066	0.0832	1.01E-06
N- (3-furoyl)glycine	rs587284	T	C	0.0628	0.0127	7.97E-07
N- (3-furoyl)glycine	rs6478473	A	T	0.131	0.0264	6.89E-07
N- (3-furoyl)glycine	rs1418200	T	C	0.2117	0.0426	6.63E-07
N- (3-furoyl)glycine	rs2951174	A	G	-0.4226	0.0834	4.04E-07

N- (3-furoyl)glycine	rs4837770	T	C	0.1533	0.0301	3.51E-07
N- (3-furoyl)glycine	rs260728	A	G	-0.1014	0.0198	2.86E-07
N- (3-furoyl)glycine	rs9975499	T	G	0.2148	0.0416	2.38E-07
N- (3-furoyl)glycine	rs4943128	A	G	0.2901	0.0551	1.38E-07
ornithine	rs12991491	A	G	0.0113	0.0025	8.14E-06
ornithine	rs11614168	T	C	-0.015	0.0034	7.68E-06
ornithine	rs4764034	A	G	-0.011	0.0024	7.67E-06
ornithine	rs12300345	A	T	-0.0151	0.0034	7.45E-06
ornithine	rs10945970	T	C	-0.011	0.0025	7.38E-06
ornithine	rs2351725	A	T	-0.0119	0.0026	5.84E-06
ornithine	rs1192522	A	G	-0.0139	0.0031	5.18E-06
ornithine	rs4812400	A	T	0.0178	0.0039	4.89E-06
ornithine	rs1563357	T	C	-0.0122	0.0027	4.76E-06
ornithine	rs10497426	T	C	0.012	0.0026	4.47E-06
ornithine	rs2065620	A	G	0.0116	0.0025	4.03E-06
ornithine	rs10900040	T	C	-0.0144	0.0031	3.40E-06
ornithine	rs10206292	T	C	0.0163	0.0035	3.02E-06
ornithine	rs10187146	A	G	-0.017	0.0036	2.64E-06
ornithine	rs13424082	A	G	-0.0125	0.0026	1.80E-06
ornithine	rs11701890	T	C	-0.0129	0.0027	1.28E-06
ornithine	rs6975921	A	G	0.0343	0.0071	1.25E-06
ornithine	rs874431	A	G	0.0125	0.0025	3.45E-07
ornithine	rs3819140	A	G	0.0136	0.0026	2.93E-07
ornithine	rs11701867	A	C	-0.0136	0.0027	2.75E-07
ornithine	rs1192521	A	T	-0.0163	0.0031	1.40E-07
p-cresol sulfate	rs727145	T	C	0.0231	0.0052	9.99E-06
p-cresol sulfate	rs12112687	T	C	0.0232	0.0053	9.89E-06
p-cresol sulfate	rs1157472	T	G	-0.0232	0.0053	9.88E-06

p-cresol sulfate	rs4713822	T	C	-0.0231	0.0052	9.65E-06
p-cresol sulfate	rs12579447	A	T	0.0536	0.0121	9.59E-06
p-cresol sulfate	rs7810840	A	G	-0.0233	0.0053	9.57E-06
p-cresol sulfate	rs2455963	C	G	-0.0798	0.018	9.57E-06
p-cresol sulfate	rs12538176	T	C	-0.0233	0.0053	9.56E-06
p-cresol sulfate	rs5000115	C	G	-0.0232	0.0052	9.28E-06
p-cresol sulfate	rs1959854	T	C	0.0798	0.018	8.92E-06
p-cresol sulfate	rs610047	T	C	-0.04	0.009	8.81E-06
p-cresol sulfate	rs2455972	A	C	-0.0799	0.018	8.72E-06
p-cresol sulfate	rs1954382	A	T	0.0799	0.018	8.71E-06
p-cresol sulfate	rs2488856	A	C	0.08	0.018	8.64E-06
p-cresol sulfate	rs985544	T	C	-0.0313	0.007	8.21E-06
p-cresol sulfate	rs12030346	T	C	-0.0372	0.0083	7.66E-06
p-cresol sulfate	rs13098279	A	G	-0.0305	0.0068	7.48E-06
p-cresol sulfate	rs17132746	A	C	0.0235	0.0053	7.43E-06
p-cresol sulfate	rs3770480	T	C	-0.2224	0.0496	7.36E-06
p-cresol sulfate	rs879092	A	T	0.044	0.0097	6.09E-06
p-cresol sulfate	rs12620897	A	G	0.2335	0.0513	5.29E-06
p-cresol sulfate	rs7332616	T	C	-0.032	0.007	5.18E-06
p-cresol sulfate	rs9348951	A	C	0.0239	0.0052	5.05E-06
p-cresol sulfate	rs1358498	T	C	-0.024	0.0053	5.01E-06
p-cresol sulfate	rs17195961	A	C	0.0654	0.0142	3.98E-06
p-cresol sulfate	rs2759635	A	G	0.0322	0.007	3.73E-06
p-cresol sulfate	rs485922	A	G	-0.0354	0.0076	3.32E-06
p-cresol sulfate	rs2025277	A	G	-0.0352	0.0075	2.98E-06
p-cresol sulfate	rs9423817	T	C	-0.0324	0.0069	2.59E-06
p-cresol sulfate	rs927507	T	C	-0.0325	0.0069	2.56E-06
p-cresol sulfate	rs2280042	A	G	-0.2177	0.0462	2.48E-06

p-cresol sulfate	rs2072901	A	G	0.0392	0.0083	2.47E-06
p-cresol sulfate	rs17189452	A	T	0.0362	0.0076	2.05E-06
p-cresol sulfate	rs1885736	T	C	-0.0357	0.0075	1.82E-06
p-cresol sulfate	rs10511749	A	T	0.068	0.0142	1.73E-06
p-cresol sulfate	rs727276	T	C	0.1628	0.0341	1.73E-06
p-cresol sulfate	rs577295	C	G	0.0367	0.0077	1.67E-06
p-cresol sulfate	rs17125342	T	C	-0.0526	0.011	1.61E-06
p-cresol sulfate	rs519016	A	G	0.0366	0.0076	1.45E-06
p-cresol sulfate	rs16984516	A	G	0.202	0.0419	1.41E-06
p-cresol sulfate	rs4894832	T	C	0.0368	0.0076	1.32E-06
p-cresol sulfate	rs629187	A	G	-0.037	0.0076	1.26E-06
p-cresol sulfate	rs562960	C	G	0.0371	0.0076	1.25E-06
p-cresol sulfate	rs3772554	A	G	0.0369	0.0076	1.14E-06
p-cresol sulfate	rs560025	A	G	-0.2395	0.0483	7.30E-07
p-cresol sulfate	rs12612749	T	C	-0.2397	0.0483	7.10E-07
p-cresol sulfate	rs3772551	A	G	0.0378	0.0076	6.40E-07
p-cresol sulfate	rs478259	A	G	-0.0393	0.0078	5.27E-07
p-cresol sulfate	rs2819047	A	G	-0.0373	0.0069	5.82E-08
phenylacetate	rs201060	A	G	0.0367	0.0083	9.75E-06
phenylacetate	rs16885269	T	C	0.0255	0.0057	8.07E-06
phenylacetate	rs2807695	T	C	0.1219	0.0272	7.74E-06
phenylacetate	rs2808005	A	G	0.1219	0.0272	7.72E-06
phenylacetate	rs1356321	T	C	0.0177	0.0039	7.08E-06
phenylacetate	rs969030	A	G	0.0177	0.0039	6.94E-06
phenylacetate	rs12104719	T	C	-0.0177	0.0039	6.89E-06
phenylacetate	rs2010458	A	C	0.0176	0.0039	5.48E-06
phenylacetate	rs4277728	T	C	-0.0218	0.0048	5.46E-06
phenylacetate	rs2345834	T	C	0.0176	0.0039	5.45E-06

phenylacetate	rs4296931	A	G	0.1523	0.0334	5.10E-06
phenylacetate	rs7580111	A	T	0.0213	0.0047	4.94E-06
phenylacetate	rs10520388	T	G	0.0219	0.0048	4.92E-06
phenylacetate	rs2579931	A	G	0.0269	0.0059	4.23E-06
phenylacetate	rs7243187	A	C	-0.0455	0.0099	3.87E-06
phenylacetate	rs2133896	T	G	0.0469	0.0099	2.36E-06
phenylacetate	rs17683199	A	G	-0.0446	0.0094	1.88E-06
phenylacetylglutamine	rs11215522	T	C	-0.0196	0.0044	9.90E-06
phenylacetylglutamine	rs7125819	A	G	-0.0195	0.0044	9.79E-06
phenylacetylglutamine	rs10891838	T	C	0.0195	0.0044	9.77E-06
phenylacetylglutamine	rs9524197	A	G	-0.0447	0.0101	9.70E-06
phenylacetylglutamine	rs2073123	T	C	0.0195	0.0044	9.62E-06
phenylacetylglutamine	rs10891835	T	C	0.0196	0.0044	9.59E-06
phenylacetylglutamine	rs7107623	A	T	-0.0196	0.0044	9.58E-06
phenylacetylglutamine	rs10488709	T	C	-0.0196	0.0044	9.58E-06
phenylacetylglutamine	rs12807464	T	C	0.0196	0.0044	9.56E-06
phenylacetylglutamine	rs2027616	T	C	-0.0196	0.0044	9.37E-06
phenylacetylglutamine	rs12641521	A	G	-0.0225	0.0051	9.36E-06
phenylacetylglutamine	rs3911458	C	G	-0.0845	0.019	8.35E-06
phenylacetylglutamine	rs3127344	A	T	-0.0197	0.0044	7.95E-06
phenylacetylglutamine	rs3766977	T	G	-0.0309	0.0069	7.23E-06
phenylacetylglutamine	rs3127434	A	G	0.0198	0.0044	7.05E-06
phenylacetylglutamine	rs9423817	T	C	-0.0274	0.0061	6.15E-06
phenylacetylglutamine	rs927507	T	C	-0.0275	0.0061	5.99E-06
phenylacetylglutamine	rs11215512	T	C	-0.0202	0.0045	5.91E-06
phenylacetylglutamine	rs6972443	C	G	0.0299	0.0066	5.78E-06
phenylacetylglutamine	rs1933781	T	C	-0.0461	0.0102	5.72E-06
phenylacetylglutamine	rs499765	C	G	0.0483	0.0107	5.68E-06

phenylacetylglutamine	rs551938	A	G	-0.0236	0.0052	5.63E-06
phenylacetylglutamine	rs17826943	A	G	0.0897	0.0198	5.56E-06
phenylacetylglutamine	rs929006	A	C	-0.0343	0.0075	5.36E-06
phenylacetylglutamine	rs10031835	T	C	-0.0494	0.0109	5.30E-06
phenylacetylglutamine	rs13118468	A	G	-0.0232	0.0051	4.82E-06
phenylacetylglutamine	rs2164376	T	C	0.0232	0.0051	4.82E-06
phenylacetylglutamine	rs973579	A	G	-0.0204	0.0044	4.64E-06
phenylacetylglutamine	rs2196367	A	T	0.0233	0.0051	4.51E-06
phenylacetylglutamine	rs874668	A	G	-0.0317	0.0069	4.44E-06
phenylacetylglutamine	rs4938200	T	C	-0.0203	0.0044	4.31E-06
phenylacetylglutamine	rs6429216	A	G	-0.023	0.005	4.23E-06
phenylacetylglutamine	rs3772551	A	G	0.0312	0.0068	3.83E-06
phenylacetylglutamine	rs4628823	T	C	0.0468	0.0101	3.68E-06
phenylacetylglutamine	rs929005	A	T	-0.0349	0.0075	3.18E-06
phenylacetylglutamine	rs2217851	A	G	0.0236	0.0051	3.01E-06
phenylacetylglutamine	rs985544	T	C	-0.0289	0.0062	2.68E-06
phenylacetylglutamine	rs577295	C	G	0.0321	0.0068	2.47E-06
phenylacetylglutamine	rs562960	C	G	0.0323	0.0068	2.09E-06
phenylacetylglutamine	rs2819047	A	G	-0.0292	0.0061	1.42E-06
phenylacetylglutamine	rs1885736	T	C	-0.0293	0.0061	1.25E-06
phenylacetylglutamine	rs12030346	T	C	-0.0334	0.0069	1.08E-06
phenylacetylglutamine	rs478259	A	G	-0.0342	0.007	8.70E-07
phenylacetylglutamine	rs2025277	A	G	-0.03	0.0061	7.93E-07
phenylacetylglutamine	rs12680735	A	G	0.206	0.0414	6.44E-07
phenylacetylglutamine	rs2072901	A	G	0.0378	0.0075	4.03E-07
phenylacetylglutamine	rs519016	A	G	0.0317	0.0061	2.27E-07
phenylacetylglutamine	rs3772554	A	G	0.0318	0.0061	1.94E-07
phenylacetylglutamine	rs879092	A	T	0.0434	0.0083	1.56E-07

phenylacetylglutamine	rs629187	A	G	-0.0327	0.0061	1.03E-07
phenylacetylglutamine	rs4797105	C	G	0.0406	0.0074	3.59E-08
phenylalanine	rs2953014	T	G	0.0055	0.0012	7.77E-06
phenylalanine	rs6831907	T	C	0.0206	0.0046	7.05E-06
phenylalanine	rs7215555	A	G	0.0055	0.0012	3.39E-06
phenylalanine	rs2905873	A	C	0.0055	0.0012	2.97E-06
phenylalanine	rs10050054	T	C	-0.0325	0.0069	2.58E-06
phenylalanine	rs1565225	A	G	0.007	0.0015	2.34E-06
phenylalanine	rs1722400	A	C	0.01	0.0021	1.29E-06
phenylalanine	rs1722390	T	C	-0.0065	0.0012	2.30E-08
phenylalanine	rs1722399	A	C	0.0068	0.0012	2.92E-09
phenylalanine	rs2712618	T	G	-0.0069	0.0012	2.81E-09
phenylalanine	rs12312580	A	T	0.0074	0.0012	2.66E-09
phenylalanine	rs870072	T	C	-0.0071	0.0011	4.03E-10
phenylalanine	rs1718307	A	T	0.0074	0.0012	2.63E-10
phenylalanine	rs937475	A	G	0.0073	0.0011	1.89E-10
phenylalanine	rs1814728	T	C	0.0074	0.0011	1.31E-10
phenylalanine	rs869916	T	G	-0.0074	0.0011	1.30E-10
phenylalanine	rs1722383	A	G	0.0074	0.0011	1.29E-10
phenylalanine	rs1126758	T	C	-0.0074	0.0011	1.09E-10
phenylalanine	rs2251894	A	G	-0.0074	0.0011	9.60E-11
phenylalanine	rs12297049	T	C	-0.0075	0.0011	8.76E-11
phenylalanine	rs1718306	T	C	0.0075	0.0011	7.34E-11
phenylalanine	rs1498694	A	G	0.0075	0.0011	7.34E-11
phenyllactate	rs12637114	T	C	0.0262	0.0059	9.65E-06
phenyllactate	rs4637923	T	C	-0.012	0.0027	9.42E-06
phenyllactate	rs2862259	A	C	0.012	0.0027	9.31E-06
phenyllactate	rs7748167	A	C	-0.0165	0.0037	9.29E-06

phenyllactate	rs9461222	A	G	0.0165	0.0037	9.29E-06
phenyllactate	rs9295675	T	C	0.0165	0.0037	9.28E-06
phenyllactate	rs12355427	A	G	-0.0121	0.0027	9.20E-06
phenyllactate	rs12968014	T	C	-0.0123	0.0028	8.95E-06
phenyllactate	rs7750960	A	C	-0.0165	0.0037	8.94E-06
phenyllactate	rs4872094	T	C	-0.0327	0.0073	8.22E-06
phenyllactate	rs12970549	A	G	-0.0124	0.0028	8.16E-06
phenyllactate	rs12155900	T	C	-0.0174	0.0039	7.34E-06
phenyllactate	rs11076272	A	G	0.0159	0.0035	6.79E-06
phenyllactate	rs4264889	A	C	-0.0122	0.0027	6.77E-06
phenyllactate	rs9926182	A	G	-0.0162	0.0036	6.51E-06
phenyllactate	rs11645135	T	C	-0.0159	0.0035	6.10E-06
phenyllactate	rs9941124	A	G	-0.0159	0.0035	6.06E-06
phenyllactate	rs12926870	C	G	-0.0159	0.0035	6.01E-06
phenyllactate	rs7194245	A	G	-0.0159	0.0035	5.93E-06
phenyllactate	rs11946779	T	C	0.024	0.0053	5.03E-06
phenyllactate	rs17042584	T	G	0.0127	0.0028	4.75E-06
phenyllactate	rs6444381	C	G	-0.0126	0.0028	4.72E-06
phenyllactate	rs1184498	C	G	0.0167	0.0037	4.64E-06
phenyllactate	rs17047492	T	C	-0.0241	0.0052	4.50E-06
phenyllactate	rs11641090	A	C	0.0162	0.0035	4.40E-06
phenyllactate	rs2056497	A	C	-0.0129	0.0028	4.35E-06
phenyllactate	rs1719261	T	C	-0.0129	0.0028	4.31E-06
phenyllactate	rs4776650	A	T	0.0129	0.0028	4.28E-06
phenyllactate	rs10083735	T	C	-0.0162	0.0035	4.14E-06
phenyllactate	rs2118019	A	G	-0.0272	0.0059	4.14E-06
phenyllactate	rs8061077	T	C	-0.0128	0.0028	4.06E-06
phenyllactate	rs4953434	A	G	-0.0128	0.0028	3.93E-06

phenyllactate	rs4799200	A	G	0.0252	0.0055	3.79E-06
phenyllactate	rs4952029	C	G	0.0286	0.0062	3.71E-06
phenyllactate	rs2046693	T	C	0.0128	0.0028	3.60E-06
phenyllactate	rs11125098	T	G	-0.0128	0.0027	3.26E-06
phenyllactate	rs9467635	A	C	-0.0174	0.0037	3.07E-06
phenyllactate	rs13415138	T	C	-0.0129	0.0027	2.90E-06
phenyllactate	rs11076273	T	C	-0.0165	0.0035	2.82E-06
phenyllactate	rs6767124	T	C	-0.013	0.0028	2.48E-06
phenyllactate	rs7689395	T	C	-0.0246	0.0052	2.34E-06
phenyllactate	rs747902	A	G	-0.0129	0.0027	2.13E-06
phenyllactate	rs1597775	T	C	-0.0131	0.0028	2.09E-06
phenyllactate	rs7199076	A	G	0.0167	0.0035	2.08E-06
phenyllactate	rs6444379	A	G	-0.0131	0.0028	2.06E-06
phenyllactate	rs6966840	A	G	0.0133	0.0028	2.01E-06
phenyllactate	rs1992052	T	C	-0.0129	0.0027	1.87E-06
phenyllactate	rs13206501	T	C	-0.0176	0.0037	1.84E-06
phenyllactate	rs1436063	A	G	0.0129	0.0027	1.83E-06
phenyllactate	rs16891315	T	C	-0.0176	0.0037	1.80E-06
phenyllactate	rs16891334	T	C	-0.0176	0.0037	1.78E-06
phenyllactate	rs1821685	T	C	0.013	0.0027	1.71E-06
phenyllactate	rs1471834	A	G	0.0136	0.0028	1.45E-06
phenyllactate	rs2032995	T	G	0.0132	0.0027	1.35E-06
phenyllactate	rs149428	A	G	0.013	0.0027	1.32E-06
phenyllactate	rs7203783	A	G	0.0171	0.0035	1.15E-06
phenyllactate	rs7201840	A	G	-0.0171	0.0035	1.15E-06
phenyllactate	rs11645316	T	G	-0.0171	0.0035	1.15E-06
phenyllactate	rs6940007	A	C	-0.0182	0.0037	9.85E-07
phenyllactate	rs16891235	T	C	-0.018	0.0037	9.67E-07

phenyllactate	rs3734523	A	G	0.0183	0.0037	9.64E-07
phenyllactate	rs9467632	A	G	-0.0183	0.0037	8.50E-07
phenyllactate	rs12931677	A	T	0.0225	0.0044	3.44E-07
phenyllactate	rs11640205	A	G	0.0333	0.0064	1.61E-07
phenyllactate	rs154440	T	C	-0.0145	0.0027	9.40E-08
phenyllactate	rs8045828	A	C	0.0225	0.0036	3.55E-10
phenyllactate	rs6499977	A	G	0.0225	0.0036	3.39E-10
phenyllactate	rs8047097	C	G	0.0232	0.0036	9.99E-11
phenyllactate	rs6499978	T	C	0.0233	0.0036	7.60E-11
phenyllactate	rs11640977	T	C	-0.025	0.0036	5.07E-12
phenyllactate	rs12923769	T	C	0.0252	0.0036	4.57E-12
phenyllactate	rs2042445	A	T	0.025	0.0036	3.77E-12
phenyllactate	rs4784971	T	C	-0.0251	0.0036	3.49E-12
phenyllactate	rs11644745	T	C	0.0259	0.0036	1.00E-12
phenyllactate	rs4784967	A	G	-0.0259	0.0036	8.30E-13
phenyllactate	rs1615326	T	C	-0.0192	0.0027	6.22E-13
phenyllactate	rs8059967	A	G	0.026	0.0036	5.45E-13
phenyllactate	rs11645347	A	G	0.0265	0.0036	2.08E-13
phenyllactate	rs4784966	A	G	-0.0267	0.0036	1.97E-13
phenyllactate	rs1075567	T	C	-0.0267	0.0036	1.66E-13
phenyllactate	rs4784965	T	G	0.0269	0.0036	9.11E-14
phenyllactate	rs6416775	T	C	-0.0203	0.0027	3.35E-14
phenyllactate	rs1657179	T	C	-0.0208	0.0027	9.38E-15
phenyllactate	rs8058151	A	T	-0.0285	0.0036	6.13E-15
phenyllactate	rs12595974	T	C	0.0214	0.0027	1.34E-15
phenyllactate	rs12598527	T	C	0.0215	0.0027	8.74E-16
phenyllactate	rs12600201	T	C	-0.0215	0.0027	8.70E-16
phenyllactate	rs12600206	T	C	-0.0215	0.0027	8.68E-16

phenyllactate	rs12596434	C	G	-0.022	0.0027	2.22E-16
phenyllactate	rs7185513	A	G	0.022	0.0027	1.80E-16
phenyllactate	rs12928733	A	C	0.022	0.0027	1.76E-16
phenyllactate	rs11646417	T	C	0.0387	0.0045	4.65E-18
phenyllactate	rs12599931	T	C	0.0237	0.0027	9.76E-19
phenyllactate	rs11647808	A	C	0.0394	0.0045	9.26E-19
phenyllactate	rs11643959	T	G	-0.0394	0.0045	9.26E-19
phenyllactate	rs12709013	T	C	0.0238	0.0027	8.84E-19
phenyllactate	rs8054482	T	C	-0.0237	0.0027	8.53E-19
phenyllactate	rs8057892	A	G	0.0238	0.0027	7.52E-19
phenyllactate	rs11641836	A	G	-0.0238	0.0027	7.51E-19
phenyllactate	rs11864685	T	C	0.0326	0.0036	4.16E-19
phenyllactate	rs7204324	A	T	-0.04	0.0045	2.68E-19
phenyllactate	rs11640551	A	G	-0.0325	0.0036	2.41E-19
phenyllactate	rs7206052	A	G	-0.0329	0.0036	1.77E-19
phenyllactate	rs8062792	A	G	0.0404	0.0044	1.14E-19
phenyllactate	rs11644269	A	G	0.0349	0.0037	2.32E-21
phenyllactate	rs4784054	A	G	0.0349	0.0037	2.31E-21
pipecolate	rs7561932	T	C	0.0184	0.0042	9.55E-06
pipecolate	rs6771987	T	C	-0.0214	0.0048	9.17E-06
pipecolate	rs9460045	T	C	-0.0529	0.0119	8.91E-06
pipecolate	rs4590377	T	C	-0.0178	0.004	8.79E-06
pipecolate	rs11718405	T	C	0.0216	0.0048	8.43E-06
pipecolate	rs1519878	A	G	-0.0179	0.004	8.31E-06
pipecolate	rs4669590	A	T	-0.0214	0.0048	7.92E-06
pipecolate	rs4443239	T	G	0.031	0.0069	7.58E-06
pipecolate	rs800439	A	T	0.1151	0.0256	7.10E-06
pipecolate	rs4717457	A	C	0.0233	0.0052	6.80E-06

pipecolate	rs800398	A	T	0.1146	0.0254	6.54E-06
pipecolate	rs800396	A	T	0.1146	0.0254	6.54E-06
pipecolate	rs800397	T	C	-0.1146	0.0254	6.54E-06
pipecolate	rs800395	A	G	-0.1146	0.0254	6.54E-06
pipecolate	rs800400	A	G	-0.1146	0.0254	6.54E-06
pipecolate	rs800389	A	G	-0.1146	0.0254	6.54E-06
pipecolate	rs800407	A	G	0.1146	0.0254	6.54E-06
pipecolate	rs800408	T	C	-0.1144	0.0254	6.54E-06
pipecolate	rs800405	A	G	-0.1146	0.0254	6.54E-06
pipecolate	rs800399	A	C	-0.1146	0.0254	6.54E-06
pipecolate	rs800402	T	C	-0.1146	0.0254	6.54E-06
pipecolate	rs800404	A	T	-0.1146	0.0254	6.54E-06
pipecolate	rs800390	A	G	-0.1146	0.0254	6.54E-06
pipecolate	rs800386	T	C	0.1146	0.0254	6.52E-06
pipecolate	rs800411	A	G	-0.1147	0.0254	6.51E-06
pipecolate	rs800393	T	C	-0.1145	0.0254	6.47E-06
pipecolate	rs800414	A	C	0.1148	0.0255	6.44E-06
pipecolate	rs800416	T	G	0.115	0.0255	6.36E-06
pipecolate	rs800417	T	C	-0.1151	0.0255	6.33E-06
pipecolate	rs800418	A	G	0.1152	0.0255	6.27E-06
pipecolate	rs809607	A	G	-0.1152	0.0255	6.25E-06
pipecolate	rs800419	T	C	-0.1153	0.0255	6.23E-06
pipecolate	rs1089074	T	C	0.1153	0.0255	6.20E-06
pipecolate	rs800431	T	G	0.1153	0.0255	6.20E-06
pipecolate	rs1089075	T	G	0.1153	0.0255	6.20E-06
pipecolate	rs800426	A	G	0.1153	0.0255	6.20E-06
pipecolate	rs800429	T	C	0.1153	0.0255	6.20E-06
pipecolate	rs800422	T	C	-0.1153	0.0255	6.20E-06

pipecolate	rs800427	T	C	-0.1153	0.0255	6.20E-06
pipecolate	rs800437	A	G	0.1153	0.0255	6.20E-06
pipecolate	rs800425	T	C	0.1153	0.0255	6.20E-06
pipecolate	rs1089072	C	G	0.1153	0.0255	6.20E-06
pipecolate	rs800440	A	G	-0.1154	0.0255	6.19E-06
pipecolate	rs800441	T	C	0.1154	0.0255	6.12E-06
pipecolate	rs11184997	A	T	0.0179	0.0039	6.01E-06
pipecolate	rs3915237	T	G	-0.0182	0.004	5.52E-06
pipecolate	rs6497209	A	G	0.019	0.0042	4.78E-06
pipecolate	rs17255249	A	C	0.0185	0.004	4.21E-06
pipecolate	rs35421463	A	G	0.0277	0.006	4.15E-06
pipecolate	rs699471	T	G	-0.1183	0.0256	3.91E-06
pipecolate	rs9295427	A	G	0.0356	0.0077	3.81E-06
pipecolate	rs7047962	A	T	0.0184	0.004	3.56E-06
pipecolate	rs7871735	T	G	0.0184	0.004	3.40E-06
pipecolate	rs800392	A	G	0.1327	0.0277	1.74E-06
pipecolate	rs4912209	C	G	0.0204	0.0042	1.18E-06
pipecolate	rs699474	C	G	0.1282	0.0264	1.16E-06
pipecolate	rs10789074	A	G	-0.0204	0.0042	1.06E-06
pipecolate	rs3010322	A	G	0.0205	0.0042	1.01E-06
pipecolate	rs3010320	A	T	-0.0205	0.0042	1.00E-06
pipecolate	rs1476414	C	G	0.0397	0.0081	9.30E-07
pipecolate	rs12726206	A	G	0.0206	0.004	3.30E-07
pipecolate	rs12725284	T	C	0.0315	0.0056	1.72E-08
proline	rs7978006	C	G	-0.0078	0.0018	9.97E-06
proline	rs7858706	T	C	-0.0077	0.0017	9.66E-06
proline	rs7029664	T	C	0.0077	0.0017	9.66E-06
proline	rs17742907	A	G	0.0174	0.0039	9.57E-06

proline	rs6085110	A	G	-0.0261	0.0059	9.44E-06
proline	rs5992340	A	T	0.0109	0.0025	9.25E-06
proline	rs2773848	A	G	-0.0078	0.0018	9.22E-06
proline	rs7958568	T	C	0.0078	0.0018	8.91E-06
proline	rs6798346	A	G	-0.0167	0.0038	8.78E-06
proline	rs2935623	A	G	-0.0079	0.0018	8.71E-06
proline	rs1875472	T	C	0.0243	0.0055	8.71E-06
proline	rs10512634	A	G	0.0117	0.0026	8.59E-06
proline	rs11963846	A	T	0.008	0.0018	8.57E-06
proline	rs950755	T	C	-0.0116	0.0026	8.51E-06
proline	rs7744327	A	G	-0.0152	0.0034	8.46E-06
proline	rs4580644	T	C	0.0157	0.0035	8.16E-06
proline	rs13025367	C	G	-0.0079	0.0018	7.99E-06
proline	rs1888182	T	C	0.0079	0.0018	7.93E-06
proline	rs6769362	C	G	-0.0079	0.0018	7.76E-06
proline	rs1564080	A	T	0.0079	0.0018	7.53E-06
proline	rs9911645	T	G	0.012	0.0027	7.15E-06
proline	rs1544197	A	G	0.0079	0.0018	6.82E-06
proline	rs7485002	A	G	0.009	0.002	6.80E-06
proline	rs4978836	A	G	0.009	0.002	6.80E-06
proline	rs7187836	T	G	-0.008	0.0018	6.77E-06
proline	rs7187519	A	G	0.008	0.0018	6.74E-06
proline	rs7560860	A	G	0.0079	0.0018	6.43E-06
proline	rs12029185	A	G	-0.0113	0.0025	6.40E-06
proline	rs10747856	A	G	-0.0079	0.0017	6.03E-06
proline	rs523454	A	G	-0.0197	0.0044	5.96E-06
proline	rs10494159	T	C	0.0114	0.0025	5.50E-06
proline	rs12032532	A	G	0.0114	0.0025	5.45E-06

proline	rs6664279	A	C	-0.0114	0.0025	5.33E-06
proline	rs9308261	T	C	-0.0081	0.0018	4.98E-06
proline	rs9540462	T	G	-0.012	0.0026	4.80E-06
proline	rs7953233	A	T	-0.008	0.0017	4.58E-06
proline	rs1615586	T	G	-0.0196	0.0043	4.18E-06
proline	rs6085132	T	C	-0.0272	0.0059	4.01E-06
proline	rs12243290	A	G	-0.0157	0.0034	4.00E-06
proline	rs11781468	T	C	0.0116	0.0025	3.97E-06
proline	rs4839318	T	C	0.0081	0.0018	3.83E-06
proline	rs1953420	A	G	0.0081	0.0018	3.81E-06
proline	rs11784679	T	G	-0.0116	0.0025	3.62E-06
proline	rs1505449	T	C	0.0082	0.0018	3.44E-06
proline	rs7742001	T	C	-0.0158	0.0034	3.29E-06
proline	rs11183677	A	G	0.0082	0.0018	3.18E-06
proline	rs10501294	T	C	-0.0124	0.0027	3.11E-06
proline	rs6768136	T	G	0.0082	0.0018	3.06E-06
proline	rs12618981	A	G	-0.0083	0.0018	3.03E-06
proline	rs17806204	A	T	-0.0083	0.0018	3.01E-06
proline	rs1413811	A	G	0.0158	0.0034	2.99E-06
proline	rs10490521	A	G	-0.0083	0.0018	2.98E-06
proline	rs418623	T	C	0.0146	0.0031	2.84E-06
proline	rs10960615	A	G	0.0083	0.0018	2.81E-06
proline	rs1928871	C	G	0.0083	0.0018	2.78E-06
proline	rs9360494	T	C	-0.0083	0.0018	2.69E-06
proline	rs10197940	T	C	-0.0083	0.0018	2.59E-06
proline	rs2238754	T	C	-0.017	0.0036	2.57E-06
proline	rs10183099	A	G	-0.0084	0.0018	2.44E-06
proline	rs7296105	A	C	0.0262	0.0055	2.35E-06

proline	rs11183620	A	G	0.0082	0.0017	2.34E-06
proline	rs1394836	T	C	0.0083	0.0018	2.23E-06
proline	rs12943535	T	C	0.0128	0.0027	1.88E-06
proline	rs930525	T	C	-0.0128	0.0027	1.88E-06
proline	rs1867270	A	T	0.0128	0.0027	1.88E-06
proline	rs893175	A	C	-0.0086	0.0018	1.53E-06
proline	rs12154397	A	G	0.0128	0.0026	1.18E-06
proline	rs6904434	A	G	-0.0165	0.0034	1.16E-06
proline	rs1334785	A	G	0.0165	0.0034	1.15E-06
proline	rs175866	T	G	-0.0086	0.0018	1.14E-06
proline	rs975648	T	C	-0.0165	0.0034	1.14E-06
proline	rs1360765	A	G	-0.0165	0.0034	1.14E-06
proline	rs535633	A	G	-0.0086	0.0018	1.05E-06
proline	rs1334780	T	C	0.0166	0.0034	1.04E-06
proline	rs1413812	T	C	0.0166	0.0034	1.04E-06
proline	rs11075967	T	C	-0.0087	0.0018	8.67E-07
proline	rs11102620	T	G	-0.0086	0.0017	8.08E-07
proline	rs5746640	A	G	-0.0125	0.0025	7.46E-07
proline	rs1343132	A	G	0.0165	0.0033	7.41E-07
proline	rs1935745	A	G	-0.0087	0.0017	7.17E-07
proline	rs1006610	T	C	-0.0087	0.0017	7.15E-07
proline	rs11848063	A	G	0.0087	0.0018	7.14E-07
proline	rs372579	A	G	0.0156	0.0031	6.86E-07
proline	rs5992347	A	G	-0.0124	0.0025	6.84E-07
proline	rs4838985	A	G	0.0089	0.0018	4.24E-07
proline	rs10954090	T	C	0.013	0.0026	3.97E-07
proline	rs1342653	T	C	-0.009	0.0018	3.96E-07
proline	rs1198311	A	T	0.0172	0.0034	3.81E-07

proline	rs6689098	T	C	-0.009	0.0018	3.79E-07
proline	rs807741	T	G	0.0322	0.0063	3.22E-07
proline	rs5747928	C	G	0.0683	0.0132	2.55E-07
proline	rs1418962	T	C	-0.0175	0.0034	2.41E-07
proline	rs9477899	T	C	-0.0175	0.0034	2.39E-07
proline	rs8135825	A	G	0.069	0.0133	2.28E-07
proline	rs9477887	A	G	-0.0175	0.0034	2.15E-07
proline	rs5993409	C	G	-0.0688	0.0132	1.97E-07
proline	rs2238728	C	G	0.0687	0.0132	1.85E-07
proline	rs5747949	A	T	-0.0122	0.0023	1.74E-07
proline	rs2185865	A	C	0.0177	0.0034	1.70E-07
proline	rs5747950	A	G	0.0094	0.0018	1.21E-07
proline	rs5747927	A	G	0.0703	0.0132	1.02E-07
proline	rs7208186	T	C	0.0139	0.0026	6.26E-08
proline	rs4819778	T	C	-0.0097	0.0018	5.50E-08
proline	rs4839310	A	G	-0.0097	0.0018	3.91E-08
proline	rs12723859	A	G	-0.0098	0.0018	2.57E-08
proline	rs715544	A	G	-0.0199	0.0036	2.44E-08
proline	rs11802885	A	T	0.0098	0.0018	2.33E-08
proline	rs11089247	T	C	-0.013	0.0023	1.67E-08
proline	rs5747948	T	G	-0.0133	0.0023	1.21E-08
proline	rs7288481	A	G	-0.0139	0.0024	7.27E-09
proline	rs9680846	T	C	-0.0144	0.0024	2.80E-09
proline	rs5747998	C	G	0.022	0.0036	1.28E-09
proline	rs3810600	A	G	-0.0242	0.0036	9.73E-12
proline	rs2800960	T	C	-0.0306	0.0039	5.68E-15
proline	rs416659	C	G	0.0268	0.0034	4.66E-15
proline	rs11912325	A	C	-0.0188	0.0024	2.65E-15

proline	rs5747922	A	G	-0.033	0.0039	6.01E-17
proline	rs5747923	A	G	0.0332	0.0039	3.91E-17
proline	rs2241305	A	G	-0.0696	0.008	2.97E-18
proline	rs9605907	A	G	-0.0229	0.0026	9.70E-19
proline	rs5746636	T	G	-0.0319	0.0036	3.94E-19
proline	rs2019061	A	G	-0.0184	0.0018	9.48E-26
proline	rs759404	T	C	0.0544	0.0042	5.46E-38
proline	rs2238732	T	C	0.0715	0.0051	2.02E-44
proline	rs5747934	T	C	0.0715	0.0051	2.00E-44
proline	rs2518805	A	G	-0.0487	0.0033	2.36E-49
proline	rs2540648	A	G	-0.0512	0.0034	2.18E-52
proline	rs2518804	A	C	-0.0507	0.0033	2.02E-53
proline	rs2540653	A	G	0.0524	0.0033	3.87E-56
proline	rs2078743	A	G	0.0534	0.0034	9.75E-57
proline	rs2023634	A	G	-0.0524	0.0033	8.05E-57
proline	rs2540647	A	G	0.0536	0.0034	7.28E-57
proline	rs2518803	C	G	0.0534	0.0033	4.22E-59
proline	rs2518802	A	C	-0.0534	0.0033	4.15E-59
proline	rs2540641	A	C	0.0633	0.0039	2.98E-59
pyruvate	rs10237319	T	C	0.0226	0.0051	9.79E-06
pyruvate	rs4756044	A	C	-0.019	0.0043	9.42E-06
pyruvate	rs4648464	A	G	-0.0161	0.0036	9.37E-06
pyruvate	rs9300118	A	G	0.0155	0.0035	8.89E-06
pyruvate	rs10770354	A	G	-0.0156	0.0035	7.89E-06
pyruvate	rs10841015	T	C	-0.0156	0.0035	7.85E-06
pyruvate	rs10770353	T	C	-0.0156	0.0035	7.82E-06
pyruvate	rs11038742	T	G	0.0195	0.0043	7.40E-06
pyruvate	rs2964065	A	G	-0.0646	0.0144	7.16E-06

pyruvate	rs7971108	A	C	-0.0159	0.0035	6.91E-06
pyruvate	rs7136674	T	G	-0.0158	0.0035	6.45E-06
pyruvate	rs573549	A	G	-0.0158	0.0035	6.13E-06
pyruvate	rs533556	A	C	-0.0159	0.0035	5.90E-06
pyruvate	rs1305261	A	G	0.1578	0.0348	5.85E-06
pyruvate	rs12515830	T	G	0.0244	0.0054	5.79E-06
pyruvate	rs11038716	A	G	0.0197	0.0043	5.74E-06
pyruvate	rs2913529	A	C	0.0687	0.015	4.49E-06
pyruvate	rs482371	T	C	-0.0161	0.0035	4.14E-06
pyruvate	rs6895278	T	C	0.0168	0.0037	4.13E-06
pyruvate	rs11259923	A	G	0.042	0.0091	3.92E-06
pyruvate	rs1133034	T	C	0.032	0.0069	3.91E-06
pyruvate	rs11738057	A	C	0.0722	0.0155	3.40E-06
pyruvate	rs11038743	A	T	0.0202	0.0043	3.35E-06
pyruvate	rs924483	A	G	-0.0289	0.0062	3.25E-06
pyruvate	rs2833657	A	G	0.0239	0.0051	3.02E-06
pyruvate	rs11038739	A	T	-0.0203	0.0043	3.01E-06
pyruvate	rs10892052	A	G	0.0169	0.0036	2.95E-06
pyruvate	rs10841014	A	G	-0.0164	0.0035	2.84E-06
pyruvate	rs518181	A	C	0.0164	0.0035	2.84E-06
pyruvate	rs2909702	A	G	0.0728	0.0155	2.84E-06
pyruvate	rs2909703	T	G	0.0729	0.0155	2.77E-06
pyruvate	rs2964062	T	C	-0.0729	0.0155	2.77E-06
pyruvate	rs10743270	T	C	0.0164	0.0035	2.61E-06
pyruvate	rs3925033	T	G	-0.0164	0.0035	2.59E-06
pyruvate	rs7120963	T	C	-0.0164	0.0035	2.54E-06
pyruvate	rs6589582	A	C	-0.0165	0.0035	2.50E-06
pyruvate	rs609177	A	G	-0.0166	0.0035	2.33E-06

pyruvate	rs2964063	T	C	-0.0735	0.0155	2.25E-06
pyruvate	rs7751620	A	G	0.0206	0.0043	2.00E-06
pyruvate	rs7120706	T	C	-0.0167	0.0035	1.81E-06
pyruvate	rs10892074	T	G	0.0168	0.0035	1.60E-06
pyruvate	rs7941871	T	G	-0.024	0.005	1.56E-06
pyruvate	rs11216267	T	C	0.0168	0.0035	1.56E-06
pyruvate	rs13195863	A	C	0.022	0.0044	4.13E-07
salicylate	rs13431990	T	C	-0.0889	0.0201	9.92E-06
salicylate	rs13405894	T	G	-0.089	0.0201	9.77E-06
salicylate	rs10173440	A	G	0.0892	0.0201	9.41E-06
salicylate	rs10208557	T	C	-0.0892	0.0201	9.39E-06
salicylate	rs7924148	A	T	0.0739	0.0166	9.10E-06
salicylate	rs10211217	T	C	-0.0897	0.0202	8.76E-06
salicylate	rs382436	T	C	0.401	0.09	8.37E-06
salicylate	rs12691851	A	C	-0.0975	0.0219	8.34E-06
salicylate	rs12691850	T	C	0.0975	0.0219	8.32E-06
salicylate	rs10984575	A	C	0.1144	0.0257	8.27E-06
salicylate	rs439384	C	G	-0.402	0.09	7.95E-06
salicylate	rs17054940	T	C	-1.0077	0.2255	7.83E-06
salicylate	rs10205265	T	C	-0.0901	0.0202	7.79E-06
salicylate	rs10056114	A	T	0.9152	0.2045	7.62E-06
salicylate	rs10056120	T	C	-0.9151	0.2045	7.62E-06
salicylate	rs10749555	A	C	-0.0826	0.0184	7.59E-06
salicylate	rs10749553	A	G	-0.0868	0.0194	7.55E-06
salicylate	rs17682068	A	G	-0.1299	0.029	7.45E-06
salicylate	rs1164673	C	G	0.0754	0.0168	7.27E-06
salicylate	rs10458721	A	G	-0.0786	0.0175	7.23E-06
salicylate	rs9453415	A	G	0.374	0.083	6.61E-06

salicylate	rs400214	T	C	0.3258	0.0723	6.60E-06
salicylate	rs254964	T	G	0.7612	0.1688	6.48E-06
salicylate	rs1615807	A	G	-0.7612	0.1688	6.48E-06
salicylate	rs838574	A	T	0.7597	0.1684	6.48E-06
salicylate	rs10976652	A	G	-0.1134	0.0251	6.44E-06
salicylate	rs12075728	T	G	-0.4196	0.0922	5.39E-06
salicylate	rs8178289	A	C	-0.1064	0.0233	5.10E-06
salicylate	rs7703218	A	G	0.7876	0.1724	4.88E-06
salicylate	rs7702148	T	C	0.7923	0.173	4.65E-06
salicylate	rs7701675	A	G	-0.7943	0.1733	4.56E-06
salicylate	rs7652259	T	C	0.407	0.088	3.75E-06
salicylate	rs16862113	T	C	0.407	0.088	3.75E-06
salicylate	rs10513356	A	T	0.407	0.088	3.75E-06
salicylate	rs6777031	T	G	0.408	0.088	3.55E-06
salicylate	rs16862165	T	C	-0.413	0.089	3.48E-06
salicylate	rs12005082	A	T	0.1232	0.0265	3.35E-06
salicylate	rs16832600	T	C	0.2205	0.0469	2.58E-06
salicylate	rs10401794	A	C	-0.9021	0.1897	2.00E-06
salicylate	rs13345207	A	G	-0.9061	0.1899	1.83E-06
salicylate	rs2797269	A	T	0.2052	0.0429	1.74E-06
salicylate	rs10402106	T	C	0.9529	0.1924	7.35E-07
salicylate	rs11256026	A	G	-0.2061	0.0409	4.60E-07
salicylate	rs10471169	T	C	0.9362	0.1854	4.43E-07
salicylate	rs5749636	A	G	0.9351	0.1842	3.85E-07
salicylate	rs10977627	T	C	0.8146	0.1524	9.06E-08
salicylurate	rs260418	A	G	0.0965	0.0218	9.66E-06
salicylurate	rs11824477	T	C	0.0951	0.0215	9.59E-06
salicylurate	rs1484976	T	C	-0.3427	0.0774	9.53E-06

salicylurate	rs10419091	T	C	-0.1138	0.0256	9.11E-06
salicylurate	rs919028	A	T	-0.5485	0.1233	8.69E-06
salicylurate	rs7663798	A	G	0.1966	0.0438	7.23E-06
salicylurate	rs7016707	T	G	0.1439	0.0317	5.81E-06
salicylurate	rs150753	A	G	-0.1347	0.0297	5.73E-06
salicylurate	rs3800052	T	C	0.1715	0.0377	5.46E-06
salicylurate	rs37058	A	T	0.1894	0.0416	5.25E-06
salicylurate	rs735507	A	G	-0.1128	0.0246	4.60E-06
salicylurate	rs219629	A	G	-0.136	0.0296	4.33E-06
salicylurate	rs219628	T	C	-0.1374	0.0298	3.94E-06
salicylurate	rs219631	A	G	0.1373	0.0297	3.80E-06
salicylurate	rs219626	A	G	0.1382	0.0297	3.29E-06
salicylurate	rs1951656	T	C	-0.42	0.0887	2.20E-06
salicylurate	rs219630	T	C	-0.1415	0.0297	1.89E-06
salicylurate	rs17021783	A	G	-0.3999	0.0838	1.84E-06
salicylurate	rs10886877	T	C	-0.1704	0.0356	1.75E-06
salicylurate	rs219624	T	G	-0.1474	0.0305	1.34E-06
salicylurate	rs4817119	A	G	-0.1533	0.0309	6.91E-07
salicylurate	rs219623	C	G	-0.1565	0.0315	6.85E-07
salicylurate	rs219627	T	C	0.1623	0.0326	6.13E-07
salicylurate	rs219633	A	G	0.1483	0.0297	5.96E-07
salicylurate	rs17682068	A	G	-0.1836	0.0349	1.45E-07
serine	rs7697110	A	G	0.0076	0.0017	9.96E-06
serine	rs2277251	T	G	0.0079	0.0018	9.70E-06
serine	rs7663177	C	G	-0.0076	0.0017	9.47E-06
serine	rs7683078	A	G	0.0076	0.0017	9.37E-06
serine	rs2073716	C	G	0.0284	0.0064	9.28E-06
serine	rs3829125	C	G	-0.0112	0.0025	9.26E-06

serine	rs6751863	C	G	0.0107	0.0024	9.22E-06
serine	rs841845	T	C	0.0108	0.0024	9.21E-06
serine	rs7921838	A	G	0.0112	0.0025	9.20E-06
serine	rs11132206	A	G	-0.0077	0.0017	9.10E-06
serine	rs9312316	T	C	0.0077	0.0017	9.05E-06
serine	rs12054644	A	G	-0.0077	0.0017	8.93E-06
serine	rs3860403	T	C	-0.0107	0.0024	8.88E-06
serine	rs9373846	A	G	0.011	0.0025	8.86E-06
serine	rs3860402	A	C	0.0107	0.0024	8.83E-06
serine	rs921516	A	G	0.0079	0.0018	8.44E-06
serine	rs1571724	A	G	0.0112	0.0025	8.39E-06
serine	rs1001972	C	G	0.0112	0.0025	8.36E-06
serine	rs6601924	T	C	0.0113	0.0025	8.33E-06
serine	rs3750572	T	C	-0.0113	0.0025	8.33E-06
serine	rs6431176	T	C	-0.0102	0.0023	8.33E-06
serine	rs12663563	C	G	-0.0212	0.0048	8.23E-06
serine	rs6564181	A	G	0.0078	0.0018	8.16E-06
serine	rs11982782	A	T	-0.0169	0.0038	7.91E-06
serine	rs3750569	A	G	-0.0113	0.0025	7.90E-06
serine	rs342563	A	G	-0.0104	0.0023	7.86E-06
serine	rs12119140	C	G	-0.0141	0.0031	7.82E-06
serine	rs10490320	T	C	0.0104	0.0023	7.78E-06
serine	rs4663379	A	G	0.0142	0.0032	7.76E-06
serine	rs17134589	C	G	0.0151	0.0034	7.75E-06
serine	rs197442	A	G	0.0104	0.0023	7.60E-06
serine	rs12618979	A	C	-0.0106	0.0024	7.47E-06
serine	rs10424732	A	G	0.0145	0.0032	7.36E-06
serine	rs3750571	A	C	0.0114	0.0025	7.29E-06

serine	rs714582	A	G	-0.0108	0.0024	7.26E-06
serine	rs17134531	A	G	0.0114	0.0025	7.14E-06
serine	rs941348	T	C	-0.0111	0.0025	7.05E-06
serine	rs10242548	A	G	0.011	0.0024	6.93E-06
serine	rs10972101	T	C	-0.0144	0.0032	6.86E-06
serine	rs6759308	T	G	0.0102	0.0023	6.66E-06
serine	rs17154498	A	C	-0.011	0.0024	6.29E-06
serine	rs10021545	T	G	-0.0078	0.0017	6.28E-06
serine	rs403636	A	C	-0.0116	0.0026	5.94E-06
serine	rs6723239	A	C	0.0109	0.0024	5.84E-06
serine	rs1107366	A	G	0.0079	0.0017	5.78E-06
serine	rs6726552	A	G	0.0104	0.0023	5.51E-06
serine	rs2887916	T	C	-0.0108	0.0024	5.10E-06
serine	rs1931679	T	C	0.0154	0.0034	5.10E-06
serine	rs4630697	A	G	0.0109	0.0024	4.95E-06
serine	rs6758081	A	G	0.011	0.0024	4.67E-06
serine	rs4077553	T	C	0.0145	0.0032	4.65E-06
serine	rs11586489	A	G	-0.0145	0.0032	4.57E-06
serine	rs942835	T	C	-0.0118	0.0026	4.48E-06
serine	rs501376	T	G	0.0079	0.0017	4.41E-06
serine	rs4659015	A	C	-0.008	0.0017	4.36E-06
serine	rs10426856	A	G	-0.0149	0.0032	4.23E-06
serine	rs9851577	T	C	-0.008	0.0017	4.09E-06
serine	rs894079	A	G	-0.0121	0.0026	4.04E-06
serine	rs17678015	T	C	-0.011	0.0024	4.03E-06
serine	rs920513	A	C	0.0369	0.008	3.99E-06
serine	rs12378125	T	C	0.0117	0.0025	3.91E-06
serine	rs7574858	T	C	0.008	0.0017	3.82E-06

serine	rs13014426	A	G	0.008	0.0017	3.82E-06
serine	rs1992855	T	C	0.008	0.0017	3.80E-06
serine	rs474541	A	G	-0.008	0.0017	3.75E-06
serine	rs2475793	T	C	-0.008	0.0017	3.71E-06
serine	rs7559678	T	G	0.008	0.0017	3.69E-06
serine	rs12469291	C	G	0.011	0.0024	3.56E-06
serine	rs17258348	A	G	-0.0146	0.0031	3.54E-06
serine	rs17734739	T	C	0.0115	0.0025	3.23E-06
serine	rs2371027	T	C	-0.0108	0.0023	3.16E-06
serine	rs13000743	A	G	0.0108	0.0023	3.10E-06
serine	rs10923870	T	G	0.0147	0.0031	3.09E-06
serine	rs12139088	A	G	0.0147	0.0031	3.05E-06
serine	rs4481896	T	C	0.0147	0.0031	3.05E-06
serine	rs10923868	C	G	0.0147	0.0031	3.04E-06
serine	rs4979037	A	G	0.0081	0.0017	3.04E-06
serine	rs4849308	A	G	0.0116	0.0025	3.03E-06
serine	rs7042526	C	G	0.0081	0.0017	2.93E-06
serine	rs9862438	T	C	-0.0081	0.0017	2.90E-06
serine	rs1024898	A	G	-0.0109	0.0023	2.87E-06
serine	rs2371034	A	G	0.0109	0.0023	2.85E-06
serine	rs4241779	A	G	0.0082	0.0017	2.83E-06
serine	rs11898985	A	G	0.0116	0.0025	2.78E-06
serine	rs816404	A	G	-0.0118	0.0025	2.70E-06
serine	rs6689350	T	C	-0.0145	0.0031	2.64E-06
serine	rs12127605	T	C	0.0168	0.0036	2.60E-06
serine	rs816405	A	C	0.0118	0.0025	2.58E-06
serine	rs10812054	A	G	-0.0083	0.0018	2.56E-06
serine	rs2538050	C	G	-0.0118	0.0025	2.52E-06

serine	rs2538054	A	G	0.0118	0.0025	2.47E-06
serine	rs1874795	A	G	-0.0083	0.0018	2.26E-06
serine	rs6723122	T	C	0.0114	0.0024	2.25E-06
serine	rs10802132	T	C	0.0111	0.0023	2.21E-06
serine	rs10167685	A	T	0.0108	0.0023	2.16E-06
serine	rs10189293	A	G	-0.0116	0.0024	2.08E-06
serine	rs2193618	T	C	-0.0111	0.0023	2.05E-06
serine	rs2062374	T	C	0.0118	0.0025	2.03E-06
serine	rs2371030	A	G	0.0111	0.0023	2.03E-06
serine	rs13033420	T	C	0.0082	0.0017	1.92E-06
serine	rs11887861	A	C	-0.011	0.0023	1.87E-06
serine	rs12478095	A	G	-0.0119	0.0025	1.86E-06
serine	rs4310999	A	G	0.0114	0.0024	1.86E-06
serine	rs580333	A	G	0.0082	0.0017	1.81E-06
serine	rs10040689	A	T	0.0082	0.0017	1.80E-06
serine	rs3860401	C	G	-0.0119	0.0025	1.79E-06
serine	rs2019530	T	G	-0.0119	0.0025	1.75E-06
serine	rs1406917	A	C	-0.0113	0.0024	1.71E-06
serine	rs4517917	T	C	0.011	0.0023	1.61E-06
serine	rs10932350	A	G	0.011	0.0023	1.60E-06
serine	rs12473077	C	G	-0.011	0.0023	1.57E-06
serine	rs7970350	T	C	-0.0083	0.0017	1.56E-06
serine	rs7908297	A	G	0.0156	0.0033	1.56E-06
serine	rs4673548	T	C	-0.011	0.0023	1.55E-06
serine	rs2371015	T	C	-0.011	0.0023	1.51E-06
serine	rs2111713	A	G	0.011	0.0023	1.50E-06
serine	rs10184528	A	T	-0.011	0.0023	1.50E-06
serine	rs4672590	C	G	0.011	0.0023	1.50E-06

serine	rs2193616	A	C	0.011	0.0023	1.50E-06
serine	rs10211086	C	G	-0.011	0.0023	1.50E-06
serine	rs10211079	C	G	-0.011	0.0023	1.50E-06
serine	rs2216403	T	G	0.011	0.0023	1.50E-06
serine	rs8756	A	C	-0.0084	0.0017	1.45E-06
serine	rs9874508	A	G	-0.0084	0.0017	1.42E-06
serine	rs12998879	A	G	0.011	0.0023	1.36E-06
serine	rs12992925	A	G	0.0084	0.0017	1.31E-06
serine	rs16824978	T	C	-0.0118	0.0024	1.30E-06
serine	rs4849313	T	C	-0.0117	0.0024	1.26E-06
serine	rs4092961	C	G	-0.0117	0.0024	1.24E-06
serine	rs3860407	T	G	-0.0117	0.0024	1.24E-06
serine	rs10205116	T	C	-0.0117	0.0024	1.23E-06
serine	rs2762343	A	G	0.0083	0.0017	1.22E-06
serine	rs4848362	T	C	0.0117	0.0024	1.22E-06
serine	rs6542195	C	G	-0.0117	0.0024	1.22E-06
serine	rs12621772	T	G	0.0117	0.0024	1.21E-06
serine	rs6723481	T	C	0.0117	0.0024	1.21E-06
serine	rs17048180	A	G	-0.0117	0.0024	1.21E-06
serine	rs6740983	T	C	-0.0117	0.0024	1.21E-06
serine	rs2033340	T	C	0.0117	0.0024	1.21E-06
serine	rs2269713	A	G	0.0318	0.0065	1.14E-06
serine	rs12478788	A	G	0.0114	0.0023	1.07E-06
serine	rs995059	T	C	0.0084	0.0017	1.03E-06
serine	rs13386028	A	C	-0.0112	0.0023	8.27E-07
serine	rs12121447	T	C	0.0177	0.0036	8.26E-07
serine	rs4130275	T	G	0.0125	0.0025	7.99E-07
serine	rs1042725	T	C	-0.0085	0.0017	7.98E-07

serine	rs7022371	T	C	0.0086	0.0017	6.54E-07
serine	rs1024896	A	G	0.0116	0.0023	6.08E-07
serine	rs1853048	A	C	0.0151	0.003	5.46E-07
serine	rs11589332	T	C	-0.012	0.0024	4.87E-07
serine	rs12127451	A	C	0.0153	0.003	4.00E-07
serine	rs17734637	C	G	0.0126	0.0025	3.33E-07
serine	rs10923876	A	G	0.0161	0.0031	2.81E-07
serine	rs6668589	T	C	-0.0123	0.0024	2.58E-07
serine	rs10490327	A	G	0.0133	0.0026	1.89E-07
serine	rs10923895	T	C	-0.0388	0.0074	1.82E-07
serine	rs12144094	C	G	-0.0159	0.003	1.79E-07
serine	rs2287413	C	G	-0.0136	0.0026	1.24E-07
serine	rs3828090	A	G	0.0126	0.0024	9.97E-08
serine	rs4673545	A	C	-0.0126	0.0024	9.05E-08
serine	rs10252442	T	C	-0.013	0.0024	6.00E-08
serine	rs10272406	A	G	0.013	0.0024	5.85E-08
serine	rs4948099	A	C	0.0219	0.004	5.85E-08
serine	rs2160847	T	C	-0.0163	0.003	4.81E-08
serine	rs6711167	A	T	0.0142	0.0026	3.13E-08
serine	rs10271662	A	C	0.0133	0.0024	2.53E-08
serine	rs7783339	A	T	-0.0127	0.0023	1.91E-08
serine	rs4673559	A	G	-0.0139	0.0024	8.66E-09
serine	rs12998006	T	C	-0.0138	0.0024	8.18E-09
serine	rs6943341	A	T	0.0139	0.0024	7.47E-09
serine	rs512854	A	G	0.015	0.0026	6.22E-09
serine	rs13244654	T	C	-0.0131	0.0022	5.28E-09
serine	rs860118	T	C	0.0133	0.0023	4.35E-09
serine	rs933466	T	C	0.0133	0.0023	4.34E-09

serine	rs2331180	A	G	-0.0133	0.0023	4.33E-09
serine	rs1894832	T	C	0.0133	0.0023	4.31E-09
serine	rs2135116	A	G	0.0141	0.0024	4.25E-09
serine	rs2242508	A	G	0.0136	0.0023	2.83E-09
serine	rs4673558	T	C	0.0143	0.0024	1.97E-09
serine	rs986294	A	G	0.0145	0.0024	1.74E-09
serine	rs7684	T	G	0.0141	0.0023	1.60E-09
serine	rs2016724	C	G	-0.014	0.0023	5.84E-10
serine	rs10218713	A	G	-0.0162	0.0025	1.00E-10
serine	rs1441011	T	C	-0.0162	0.0025	8.72E-11
serine	rs6683122	T	G	0.0163	0.0025	7.67E-11
serine	rs11577560	T	C	-0.0163	0.0025	6.50E-11
serine	rs7793921	A	G	0.0152	0.0023	4.76E-11
serine	rs10494229	A	G	-0.0165	0.0025	4.71E-11
serine	rs11238394	C	G	-0.0119	0.0017	4.98E-12
serine	rs2908543	A	T	-0.012	0.0017	3.20E-12
serine	rs816411	T	C	-0.012	0.0017	3.20E-12
serine	rs816409	A	G	0.012	0.0017	3.20E-12
serine	rs4275190	T	C	0.0161	0.0023	2.96E-12
serine	rs866321	T	C	-0.0166	0.0024	1.73E-12
serine	rs4560045	A	T	0.0173	0.0024	1.14E-12
serine	rs10932355	A	G	-0.0177	0.0025	4.62E-13
serine	rs6593292	C	G	0.0173	0.0024	4.57E-13
serine	rs4535700	T	C	-0.0174	0.0024	4.38E-13
serine	rs4543497	T	C	-0.0174	0.0024	4.25E-13
serine	rs4689	T	G	0.0175	0.0024	2.51E-13
serine	rs7800001	T	C	-0.0178	0.0024	2.20E-13
serine	rs7421152	A	T	-0.0181	0.0025	2.16E-13

serine	rs12613336	T	C	-0.0179	0.0024	1.56E-13
serine	rs10229446	A	G	0.0178	0.0024	1.52E-13
serine	rs2216405	A	G	-0.0185	0.0025	6.04E-14
serine	rs677277	A	G	-0.0173	0.0023	5.25E-14
serine	rs10490325	C	G	-0.0188	0.0025	2.56E-14
serine	rs10206976	T	G	0.0188	0.0025	2.39E-14
serine	rs4947534	T	C	-0.0183	0.0024	1.96E-14
serine	rs616111	C	G	-0.0176	0.0023	1.16E-14
serine	rs594400	T	G	-0.018	0.0023	9.00E-15
serine	rs11680929	A	G	0.0191	0.0025	7.30E-15
serine	rs10490324	T	C	0.0191	0.0025	7.29E-15
serine	rs16844862	T	C	0.0191	0.0025	7.27E-15
serine	rs10490322	T	C	0.0191	0.0025	7.24E-15
serine	rs10490323	A	G	0.0191	0.0025	7.24E-15
serine	rs3815630	T	C	-0.0191	0.0025	7.24E-15
serine	rs10172053	T	G	-0.0195	0.0025	3.25E-15
serine	rs16844874	T	C	-0.0195	0.0025	3.10E-15
serine	rs4513233	A	G	0.0195	0.0025	3.09E-15
serine	rs16844839	T	C	0.0197	0.0025	2.45E-15
serine	rs4673546	T	C	0.0192	0.0024	2.33E-15
serine	rs16844825	A	G	-0.0192	0.0024	2.30E-15
serine	rs2193617	A	G	0.0192	0.0024	2.26E-15
serine	rs666930	T	C	-0.014	0.0017	3.89E-16
serine	rs523395	T	C	-0.019	0.0023	3.38E-16
serine	rs637868	T	C	-0.0142	0.0017	1.60E-16
serine	rs539799	T	C	0.0146	0.0017	3.06E-17
serine	rs561931	A	G	-0.0201	0.0023	2.38E-18
serine	rs4673553	T	G	-0.0156	0.0017	2.07E-19

serine	rs715	T	C	-0.0223	0.0024	2.69E-21
serine	rs478093	A	G	-0.0236	0.0023	1.14E-23
serine	rs662602	C	G	-0.0236	0.0023	7.82E-24
serine	rs483180	C	G	0.0236	0.0023	7.66E-24
serine	rs2764886	T	C	0.0178	0.0017	2.00E-24
serine	rs611365	T	C	0.0178	0.0017	1.97E-24
serine	rs592762	A	G	-0.0177	0.0017	1.90E-24
serine	rs595283	C	G	0.0178	0.0017	1.20E-24
serine	rs477992	A	G	-0.0243	0.0023	3.17E-25
serine	rs539708	T	G	-0.0186	0.0017	1.18E-26
serine	rs629735	T	G	-0.0187	0.0017	1.17E-26
serine	rs541503	T	C	0.0186	0.0017	9.82E-27
serine	rs662243	A	C	-0.0188	0.0018	8.87E-27
serine	rs606312	A	G	0.0188	0.0018	7.17E-27
serine	rs839605	A	C	0.0188	0.0018	7.10E-27
serine	rs487884	T	C	0.0188	0.0018	7.10E-27
serine	rs511059	T	G	0.0188	0.0018	7.10E-27
serine	rs627707	C	G	-0.0188	0.0018	7.10E-27
serine	rs639216	T	C	0.0188	0.0018	7.10E-27
serine	rs487081	A	G	0.0188	0.0018	7.10E-27
serine	rs612430	A	G	-0.0188	0.0018	7.08E-27
serine	rs1163251	T	C	0.0188	0.0017	7.05E-27
serotonin	rs9614258	T	C	0.0175	0.004	9.94E-06
serotonin	rs930909	T	C	0.0146	0.0033	9.55E-06
serotonin	rs2272784	T	G	-0.0144	0.0032	9.53E-06
serotonin	rs1014208	A	C	-0.0174	0.0039	9.35E-06
serotonin	rs9953702	A	G	0.0146	0.0033	9.22E-06
serotonin	rs17371672	C	G	-0.0179	0.004	9.06E-06

serotonin	rs11781043	T	C	-0.0187	0.0042	8.81E-06
serotonin	rs988694	A	G	-0.0145	0.0033	8.39E-06
serotonin	rs11773635	A	C	0.0179	0.004	8.14E-06
serotonin	rs11103695	T	C	0.0178	0.004	7.39E-06
serotonin	rs17708932	A	G	-0.0766	0.0171	7.22E-06
serotonin	rs970865	T	C	0.0178	0.0039	6.37E-06
serotonin	rs6963218	A	C	0.0216	0.0048	6.28E-06
serotonin	rs12532149	C	G	-0.0217	0.0048	6.13E-06
serotonin	rs10499903	A	G	0.0218	0.0048	5.32E-06
serotonin	rs2036136	T	C	-0.0256	0.0056	5.11E-06
serotonin	rs17039706	T	C	-0.0185	0.0041	4.74E-06
serotonin	rs34725	A	G	-0.0176	0.0039	4.62E-06
serotonin	rs34720	A	G	0.0152	0.0033	4.40E-06
serotonin	rs34722	A	C	0.0152	0.0033	4.36E-06
serotonin	rs6466265	A	G	0.0186	0.004	4.15E-06
serotonin	rs10953038	T	C	0.022	0.0048	4.12E-06
serotonin	rs9614170	T	G	-0.0181	0.0039	3.87E-06
serotonin	rs10881427	T	G	-0.015	0.0032	3.69E-06
serotonin	rs3753555	T	G	-0.015	0.0032	3.67E-06
serotonin	rs3753556	T	C	0.015	0.0032	3.66E-06
serotonin	rs737788	T	C	-0.0183	0.0039	3.62E-06
serotonin	rs34724	T	G	-0.0153	0.0033	3.20E-06
serotonin	rs11103694	T	C	-0.0187	0.004	3.10E-06
serotonin	rs11103693	T	C	-0.0187	0.004	3.09E-06
serotonin	rs739075	A	T	0.0188	0.004	2.12E-06
serotonin	rs5763947	A	G	-0.0188	0.004	2.12E-06
serotonin	rs825278	T	C	-0.0913	0.0192	2.06E-06
serotonin	rs9614255	A	G	-0.0187	0.0039	1.93E-06

serotonin	rs12646122	T	C	-0.0497	0.0104	1.80E-06
serotonin	rs7868774	A	G	-0.0188	0.0039	1.78E-06
serotonin	rs8113773	A	G	0.016	0.0033	1.12E-06
serotonin	rs5764174	T	C	-0.0194	0.004	9.61E-07
serotonin	rs10516056	T	C	-0.0222	0.0045	6.99E-07
serotonin	rs2742351	C	G	-0.0235	0.0046	3.23E-07
stachydrine	rs2602003	A	G	0.0679	0.0153	9.66E-06
stachydrine	rs3741793	C	G	-0.0684	0.0154	9.22E-06
stachydrine	rs2045005	T	C	0.0665	0.015	8.79E-06
stachydrine	rs9319364	T	C	0.0919	0.0207	8.75E-06
stachydrine	rs9443691	A	G	-0.0809	0.0182	8.68E-06
stachydrine	rs17630756	A	G	0.1768	0.0391	5.99E-06
stachydrine	rs4708385	A	G	-0.0608	0.0133	5.20E-06
stachydrine	rs2688892	T	C	0.0688	0.015	4.47E-06
stachydrine	rs4408387	A	G	-0.0757	0.0163	3.27E-06
stachydrine	rs7975440	T	C	-0.0885	0.0187	2.31E-06
taurochenodeoxycholate	rs1608165	C	G	-0.0406	0.0092	9.61E-06
taurochenodeoxycholate	rs9403860	T	G	0.0286	0.0065	9.55E-06
taurochenodeoxycholate	rs7029609	T	C	0.0293	0.0066	9.32E-06
taurochenodeoxycholate	rs7039508	A	T	0.0293	0.0066	9.32E-06
taurochenodeoxycholate	rs7855016	A	G	-0.0293	0.0066	9.32E-06
taurochenodeoxycholate	rs6479236	A	T	0.0293	0.0066	9.28E-06
taurochenodeoxycholate	rs7862751	A	G	0.0293	0.0066	9.26E-06
taurochenodeoxycholate	rs10991297	A	G	-0.0371	0.0084	9.20E-06
taurochenodeoxycholate	rs7033784	A	G	-0.0293	0.0066	9.05E-06
taurochenodeoxycholate	rs2684844	A	G	-0.0498	0.0112	9.03E-06
taurochenodeoxycholate	rs9497801	A	T	-0.0316	0.0071	9.01E-06
taurochenodeoxycholate	rs1388747	T	C	-0.0293	0.0066	8.99E-06

taurochenodeoxycholate	rs10119213	T	C	0.0328	0.0074	8.99E-06
taurochenodeoxycholate	rs1388748	A	G	-0.0294	0.0066	8.90E-06
taurochenodeoxycholate	rs1492260	A	G	-0.0294	0.0066	8.86E-06
taurochenodeoxycholate	rs6443951	T	C	-0.0287	0.0064	8.67E-06
taurochenodeoxycholate	rs10820636	T	G	-0.0294	0.0066	8.56E-06
taurochenodeoxycholate	rs6465368	A	G	0.185	0.0416	8.51E-06
taurochenodeoxycholate	rs11788312	A	T	-0.0328	0.0074	8.45E-06
taurochenodeoxycholate	rs7848719	T	C	0.1056	0.0237	8.40E-06
taurochenodeoxycholate	rs6858711	T	C	-0.1096	0.0246	8.28E-06
taurochenodeoxycholate	rs7019389	A	G	0.0295	0.0066	8.18E-06
taurochenodeoxycholate	rs10117750	T	C	-0.0295	0.0066	8.17E-06
taurochenodeoxycholate	rs6740215	A	G	0.0453	0.0101	7.78E-06
taurochenodeoxycholate	rs10115497	A	G	0.0374	0.0084	7.72E-06
taurochenodeoxycholate	rs10739890	A	G	-0.0296	0.0066	7.70E-06
taurochenodeoxycholate	rs7024895	C	G	-0.0296	0.0066	7.70E-06
taurochenodeoxycholate	rs7038020	T	C	-0.033	0.0074	7.63E-06
taurochenodeoxycholate	rs10991306	T	C	-0.0329	0.0073	7.53E-06
taurochenodeoxycholate	rs347722	T	C	0.0337	0.0075	7.52E-06
taurochenodeoxycholate	rs1689695	A	G	0.0337	0.0075	7.51E-06
taurochenodeoxycholate	rs398748	A	C	-0.0337	0.0075	7.50E-06
taurochenodeoxycholate	rs10121578	T	C	0.0296	0.0066	7.42E-06
taurochenodeoxycholate	rs9292647	T	C	-0.0337	0.0075	7.27E-06
taurochenodeoxycholate	rs392488	T	C	-0.0337	0.0075	7.26E-06
taurochenodeoxycholate	rs4742917	A	C	-0.0294	0.0066	7.22E-06
taurochenodeoxycholate	rs7043854	A	G	-0.0294	0.0066	7.22E-06
taurochenodeoxycholate	rs7858354	A	G	-0.1132	0.0252	7.03E-06
taurochenodeoxycholate	rs10761054	T	G	0.0331	0.0074	7.01E-06
taurochenodeoxycholate	rs10115731	A	C	-0.0331	0.0074	7.00E-06

taurochenodeoxycholate	rs932989	T	G	-0.1133	0.0252	7.00E-06
taurochenodeoxycholate	rs1425572	T	C	0.0331	0.0074	7.00E-06
taurochenodeoxycholate	rs10991335	T	C	0.0331	0.0074	7.00E-06
taurochenodeoxycholate	rs10820694	A	C	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs10739901	T	C	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs10820693	T	C	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs10120011	T	C	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs929963	A	G	-0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs929964	T	C	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs10114059	A	T	-0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs7024103	T	C	-0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs10117926	A	G	-0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs1425573	T	C	-0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs7034826	A	G	0.0331	0.0074	6.99E-06
taurochenodeoxycholate	rs13289190	A	G	-0.0331	0.0074	6.98E-06
taurochenodeoxycholate	rs1907678	T	C	-0.0297	0.0066	6.91E-06
taurochenodeoxycholate	rs7045006	T	C	-0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs878494	A	G	0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs1352930	T	C	0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs1492269	A	G	-0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs878495	A	C	-0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs1565607	A	T	-0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs1352929	A	T	-0.0297	0.0066	6.87E-06
taurochenodeoxycholate	rs10991319	A	G	0.0333	0.0074	6.57E-06
taurochenodeoxycholate	rs2684816	T	C	0.0506	0.0112	6.41E-06
taurochenodeoxycholate	rs16950349	A	G	-0.0507	0.0112	6.36E-06
taurochenodeoxycholate	rs2992907	T	C	0.0296	0.0065	6.16E-06
taurochenodeoxycholate	rs7861560	T	G	0.0299	0.0066	6.00E-06

taurochenodeoxycholate	rs10761021	A	C	0.0299	0.0066	5.91E-06
taurochenodeoxycholate	rs17806001	A	G	-0.1105	0.0243	5.70E-06
taurochenodeoxycholate	rs7848609	T	C	0.1108	0.0244	5.69E-06
taurochenodeoxycholate	rs10761051	A	C	-0.0335	0.0074	5.55E-06
taurochenodeoxycholate	rs10761019	T	C	0.0301	0.0066	5.46E-06
taurochenodeoxycholate	rs9644966	T	C	-0.0301	0.0066	5.44E-06
taurochenodeoxycholate	rs10820640	T	C	0.0302	0.0066	5.27E-06
taurochenodeoxycholate	rs9299382	T	G	-0.0335	0.0074	5.25E-06
taurochenodeoxycholate	rs1565603	A	G	-0.0301	0.0066	5.14E-06
taurochenodeoxycholate	rs1960960	T	C	-0.0302	0.0066	5.03E-06
taurochenodeoxycholate	rs10120571	T	C	-0.0302	0.0066	5.02E-06
taurochenodeoxycholate	rs10125033	T	C	0.0337	0.0074	4.96E-06
taurochenodeoxycholate	rs7432211	T	C	0.0294	0.0064	4.93E-06
taurochenodeoxycholate	rs10120240	A	G	-0.0339	0.0074	4.42E-06
taurochenodeoxycholate	rs2222490	A	G	0.0339	0.0074	4.36E-06
taurochenodeoxycholate	rs10761046	A	G	0.0339	0.0074	4.29E-06
taurochenodeoxycholate	rs7848251	T	G	-0.0339	0.0074	4.21E-06
taurochenodeoxycholate	rs12683417	C	G	-0.034	0.0074	4.18E-06
taurochenodeoxycholate	rs6738219	A	G	0.0465	0.0101	4.18E-06
taurochenodeoxycholate	rs10932397	A	G	-0.0431	0.0093	3.97E-06
taurochenodeoxycholate	rs11121663	T	C	0.0308	0.0067	3.95E-06
taurochenodeoxycholate	rs13024502	A	G	-0.0467	0.0101	3.87E-06
taurochenodeoxycholate	rs13025068	T	C	0.0432	0.0093	3.34E-06
taurochenodeoxycholate	rs13291813	A	G	0.0344	0.0074	3.32E-06
taurochenodeoxycholate	rs6435665	A	G	-0.0471	0.0101	3.27E-06
taurochenodeoxycholate	rs7593713	T	C	-0.0471	0.0101	3.26E-06
taurochenodeoxycholate	rs10432443	T	C	-0.0474	0.0102	3.01E-06
taurochenodeoxycholate	rs4673633	A	G	-0.0395	0.0084	2.76E-06

taurochenodeoxycholate	rs12104496	A	T	-0.0395	0.0084	2.70E-06
taurochenodeoxycholate	rs10118710	A	G	0.0347	0.0074	2.65E-06
taurochenodeoxycholate	rs1425574	A	C	0.0347	0.0074	2.42E-06
taurochenodeoxycholate	rs1851722	A	G	0.0354	0.0075	2.01E-06
taurochenodeoxycholate	rs161959	C	G	-0.0767	0.0159	1.39E-06
taurochenodeoxycholate	rs7568568	T	C	0.1481	0.0306	1.31E-06
taurochenodeoxycholate	rs4896923	A	G	0.0361	0.0072	5.31E-07
taurocholate	rs2632020	T	C	0.0364	0.0082	8.43E-06
taurocholate	rs2702723	A	T	-0.0365	0.0082	8.38E-06
taurocholate	rs2729883	T	G	-0.0365	0.0082	8.38E-06
taurocholate	rs2702724	A	G	0.0365	0.0082	8.34E-06
taurocholate	rs9962219	T	G	-0.4251	0.0954	8.28E-06
taurocholate	rs5029360	A	C	-0.0369	0.0083	7.92E-06
taurocholate	rs10813365	A	G	-0.0367	0.0082	7.92E-06
taurocholate	rs11025148	A	C	0.0368	0.0082	7.39E-06
taurocholate	rs8111663	C	G	-0.0369	0.0082	7.36E-06
taurocholate	rs7800135	C	G	0.1819	0.0405	7.26E-06
taurocholate	rs2530123	A	C	0.1294	0.0287	6.73E-06
taurocholate	rs9298926	A	C	-0.037	0.0082	6.72E-06
taurocholate	rs17169191	A	T	-0.1825	0.0405	6.61E-06
taurocholate	rs11604718	A	G	-0.0369	0.0082	6.50E-06
taurocholate	rs2200569	A	T	0.0369	0.0082	6.39E-06
taurocholate	rs12708340	T	C	0.0369	0.0082	6.36E-06
taurocholate	rs4146353	T	G	0.0371	0.0082	6.30E-06
taurocholate	rs11862161	T	G	0.0372	0.0082	6.21E-06
taurocholate	rs12051447	A	C	0.0373	0.0082	6.03E-06
taurocholate	rs5029362	T	C	-0.0374	0.0082	5.85E-06
taurocholate	rs11025153	A	G	0.0371	0.0082	5.85E-06

taurocholate	rs5029357	T	C	-0.0374	0.0082	5.81E-06
taurocholate	rs9941093	A	G	0.0374	0.0082	5.81E-06
taurocholate	rs3914513	A	T	0.0373	0.0082	5.64E-06
taurocholate	rs309873	C	G	0.0743	0.0164	5.63E-06
taurocholate	rs10813358	A	G	0.0373	0.0082	5.62E-06
taurocholate	rs16955093	T	C	0.3552	0.0782	5.61E-06
taurocholate	rs2702717	A	T	-0.0373	0.0082	5.25E-06
taurocholate	rs2632031	T	C	0.0373	0.0082	5.21E-06
taurocholate	rs2632030	T	C	0.0373	0.0082	5.21E-06
taurocholate	rs2729884	T	C	-0.0373	0.0082	5.20E-06
taurocholate	rs226212	A	G	-0.0384	0.0084	4.84E-06
taurocholate	rs12984452	T	C	-0.0413	0.009	4.71E-06
taurocholate	rs4513112	C	G	-0.0379	0.0083	4.46E-06
taurocholate	rs7171216	T	G	-0.0442	0.0096	4.41E-06
taurocholate	rs8060035	A	G	0.0374	0.0081	4.21E-06
taurocholate	rs8059670	T	C	-0.0374	0.0081	4.06E-06
taurocholate	rs7139744	T	G	0.0423	0.0092	3.87E-06
taurocholate	rs11859424	A	C	0.0378	0.0081	3.50E-06
taurocholate	rs12446701	A	G	0.0377	0.0081	3.50E-06
taurocholate	rs2702642	T	C	0.0383	0.0082	3.48E-06
taurocholate	rs9824066	T	C	-0.0894	0.0192	3.10E-06
taurocholate	rs12926895	A	G	0.0383	0.0082	2.90E-06
taurocholate	rs12070179	T	C	-0.2041	0.0432	2.31E-06
taurocholate	rs7108724	A	G	-0.0389	0.0082	2.13E-06
taurocholate	rs11862975	T	G	0.0385	0.0081	2.12E-06
taurocholate	rs11862973	T	C	0.0385	0.0081	2.12E-06
taurocholate	rs11866743	A	G	0.0385	0.0081	2.12E-06
taurocholate	rs11866744	A	T	0.0385	0.0081	2.12E-06

taurocholate	rs10766563	T	G	0.0389	0.0082	1.97E-06
taurocholate	rs10833121	C	G	0.0389	0.0082	1.97E-06
taurocholate	rs10766562	T	C	0.0389	0.0082	1.97E-06
taurocholate	rs10514476	A	G	0.0391	0.0082	1.80E-06
taurocholate	rs9815713	A	G	-0.0917	0.0192	1.79E-06
taurocholate	rs1948095	A	C	-0.1423	0.0286	6.39E-07
taurocholate	rs7809441	A	G	0.0748	0.0147	3.80E-07
taurodeoxycholate	rs17022499	A	T	0.054	0.0122	9.71E-06
taurodeoxycholate	rs10975331	T	C	0.1208	0.0273	9.60E-06
taurodeoxycholate	rs17403175	A	C	0.0713	0.0161	9.26E-06
taurodeoxycholate	rs9680742	T	C	-0.0574	0.0129	9.21E-06
taurodeoxycholate	rs12167140	T	C	-0.0572	0.0129	9.21E-06
taurodeoxycholate	rs7184864	A	G	-0.0583	0.0131	9.14E-06
taurodeoxycholate	rs4691480	T	C	-0.1529	0.0343	8.51E-06
taurodeoxycholate	rs8137495	A	G	0.0602	0.0135	7.80E-06
taurodeoxycholate	rs17403795	A	G	0.073	0.0161	5.61E-06
taurodeoxycholate	rs10463829	C	G	-0.0621	0.0136	4.95E-06
taurodeoxycholate	rs4896370	A	G	0.0555	0.0121	4.19E-06
taurodeoxycholate	rs1898906	A	G	0.1378	0.0299	4.09E-06
taurodeoxycholate	rs1153699	T	G	0.0602	0.013	3.89E-06
taurodeoxycholate	rs2032297	C	G	0.057	0.0123	3.85E-06
taurodeoxycholate	rs10035170	T	C	-0.0603	0.0128	2.54E-06
taurodeoxycholate	rs10478776	A	G	0.0603	0.0128	2.53E-06
taurodeoxycholate	rs11114028	A	G	-0.0485	0.0103	2.21E-06
taurodeoxycholate	rs11739013	C	G	0.0608	0.0128	2.13E-06
taurodeoxycholate	rs11950491	T	C	0.0608	0.0128	2.13E-06
taurodeoxycholate	rs11241934	A	G	0.0608	0.0128	2.13E-06
taurodeoxycholate	rs11949031	A	G	0.0662	0.0138	1.52E-06

taurodeoxycholate	rs7961079	A	G	0.0527	0.0109	1.46E-06
taurodeoxycholate	rs3906534	A	G	0.061	0.0125	1.05E-06
taurodeoxycholate	rs3909884	T	C	0.061	0.0125	1.05E-06
taurodeoxycholate	rs17605591	A	T	-0.061	0.0125	1.05E-06
taurodeoxycholate	rs3906536	T	C	-0.061	0.0125	1.05E-06
taurodeoxycholate	rs11241932	A	G	0.061	0.0125	1.05E-06
taurodeoxycholate	rs11241933	A	T	-0.061	0.0125	1.05E-06
taurodeoxycholate	rs12501959	A	G	0.1481	0.0295	5.02E-07
taurodeoxycholate	rs4604097	T	C	0.1484	0.0295	4.82E-07
taurodeoxycholate	rs4632709	T	C	-0.1504	0.0297	4.00E-07
taurolithocholate 3-sulfate	rs10841767	A	G	0.035	0.0079	9.88E-06
taurolithocholate 3-sulfate	rs12804326	T	C	-0.0352	0.0079	9.61E-06
taurolithocholate 3-sulfate	rs9904760	A	G	-0.0322	0.0072	8.12E-06
taurolithocholate 3-sulfate	rs11045824	T	G	-0.036	0.0081	7.97E-06
taurolithocholate 3-sulfate	rs4148992	A	G	0.0279	0.0063	7.97E-06
taurolithocholate 3-sulfate	rs11045823	A	G	-0.036	0.0081	7.97E-06
taurolithocholate 3-sulfate	rs12365253	T	C	-0.0359	0.008	7.78E-06
taurolithocholate 3-sulfate	rs11045834	T	C	-0.0285	0.0063	7.20E-06
taurolithocholate 3-sulfate	rs4579381	T	C	-0.0278	0.0062	7.00E-06
taurolithocholate 3-sulfate	rs11045821	A	G	-0.0364	0.0081	6.88E-06
taurolithocholate 3-sulfate	rs11045870	A	G	-0.0356	0.0079	6.86E-06
taurolithocholate 3-sulfate	rs10841786	A	T	0.0284	0.0063	6.81E-06
taurolithocholate 3-sulfate	rs2053585	A	G	0.0556	0.0123	6.58E-06
taurolithocholate 3-sulfate	rs11045863	T	C	-0.0361	0.0079	5.30E-06
taurolithocholate 3-sulfate	rs1231379	T	C	0.0282	0.0062	5.11E-06
taurolithocholate 3-sulfate	rs11045858	A	G	0.0362	0.0079	5.05E-06
taurolithocholate 3-sulfate	rs11045818	A	G	-0.0371	0.0081	4.82E-06
taurolithocholate 3-sulfate	rs6500994	C	G	0.0864	0.0188	4.54E-06

tauroolithocholate 3-sulfate	rs16888843	T	C	0.2982	0.065	4.43E-06
tauroolithocholate 3-sulfate	rs11045819	A	C	-0.0372	0.0081	4.40E-06
tauroolithocholate 3-sulfate	rs17329885	T	C	0.0373	0.0081	4.26E-06
tauroolithocholate 3-sulfate	rs11045820	T	C	-0.0373	0.0081	4.16E-06
tauroolithocholate 3-sulfate	rs11045905	T	C	0.0366	0.0079	3.94E-06
tauroolithocholate 3-sulfate	rs11045904	A	G	-0.0366	0.0079	3.93E-06
tauroolithocholate 3-sulfate	rs11045813	A	G	-0.0373	0.0081	3.86E-06
tauroolithocholate 3-sulfate	rs11045892	A	G	0.0367	0.0079	3.72E-06
tauroolithocholate 3-sulfate	rs11045893	T	C	0.0367	0.0079	3.72E-06
tauroolithocholate 3-sulfate	rs11045891	A	C	0.0367	0.0079	3.72E-06
tauroolithocholate 3-sulfate	rs7960384	A	G	0.0367	0.0079	3.71E-06
tauroolithocholate 3-sulfate	rs7960688	C	G	-0.0367	0.0079	3.71E-06
tauroolithocholate 3-sulfate	rs2900478	A	T	0.0391	0.0084	3.63E-06
tauroolithocholate 3-sulfate	rs1231384	A	G	0.0288	0.0062	3.38E-06
tauroolithocholate 3-sulfate	rs1231385	T	C	-0.0288	0.0062	3.38E-06
tauroolithocholate 3-sulfate	rs12829704	A	G	-0.0371	0.008	3.28E-06
tauroolithocholate 3-sulfate	rs2609982	T	C	-0.0294	0.0063	3.10E-06
tauroolithocholate 3-sulfate	rs4148984	A	G	0.0292	0.0062	3.02E-06
tauroolithocholate 3-sulfate	rs7500975	A	G	-0.0833	0.0178	2.87E-06
tauroolithocholate 3-sulfate	rs12611993	T	C	-0.0627	0.0134	2.87E-06
tauroolithocholate 3-sulfate	rs4148993	A	G	-0.0295	0.0063	2.83E-06
tauroolithocholate 3-sulfate	rs7967935	A	G	0.0294	0.0063	2.53E-06
tauroolithocholate 3-sulfate	rs4148990	A	G	0.0294	0.0063	2.53E-06
tauroolithocholate 3-sulfate	rs10841791	A	G	-0.0294	0.0062	2.48E-06
tauroolithocholate 3-sulfate	rs7978981	T	C	0.0295	0.0063	2.45E-06
tauroolithocholate 3-sulfate	rs11045980	T	G	0.0295	0.0063	2.42E-06
tauroolithocholate 3-sulfate	rs12231212	A	C	0.0295	0.0063	2.41E-06
tauroolithocholate 3-sulfate	rs10743411	T	C	0.0295	0.0063	2.38E-06

taurothiocholate 3-sulfate	rs11045913	A	G	-0.0292	0.0062	2.31E-06
taurothiocholate 3-sulfate	rs2199680	A	T	-0.0371	0.0079	2.27E-06
taurothiocholate 3-sulfate	rs7969341	A	G	-0.0371	0.0078	2.23E-06
taurothiocholate 3-sulfate	rs12366582	A	G	-0.0373	0.0078	1.99E-06
taurothiocholate 3-sulfate	rs12369881	A	G	0.0373	0.0078	1.99E-06
taurothiocholate 3-sulfate	rs4148986	A	G	-0.0302	0.0063	1.68E-06
taurothiocholate 3-sulfate	rs10459074	A	G	-0.0301	0.0063	1.51E-06
taurothiocholate 3-sulfate	rs11045974	A	G	-0.0301	0.0063	1.45E-06
taurothiocholate 3-sulfate	rs10770796	T	C	-0.0301	0.0063	1.45E-06
taurothiocholate 3-sulfate	rs7963398	A	C	-0.0301	0.0063	1.44E-06
taurothiocholate 3-sulfate	rs11045879	T	C	-0.0378	0.0078	1.44E-06
taurothiocholate 3-sulfate	rs4115170	T	C	0.0301	0.0063	1.44E-06
taurothiocholate 3-sulfate	rs7968331	T	G	-0.0302	0.0063	1.41E-06
taurothiocholate 3-sulfate	rs4148989	T	C	0.0302	0.0063	1.40E-06
taurothiocholate 3-sulfate	rs10841794	A	C	0.0302	0.0063	1.37E-06
taurothiocholate 3-sulfate	rs6487216	T	C	0.0303	0.0063	1.31E-06
taurothiocholate 3-sulfate	rs4149081	A	G	0.038	0.0078	1.24E-06
taurothiocholate 3-sulfate	rs7313671	T	C	-0.0305	0.0063	1.11E-06
taurothiocholate 3-sulfate	rs4363657	T	C	-0.0384	0.0078	1.03E-06
taurothiocholate 3-sulfate	rs4148988	T	C	0.0317	0.0063	4.35E-07
taurothiocholate 3-sulfate	rs4148987	A	G	-0.0317	0.0063	4.09E-07
taurothiocholate 3-sulfate	rs1871395	A	G	-0.0401	0.0079	3.99E-07
taurothiocholate 3-sulfate	rs12317268	A	G	-0.0408	0.0079	2.59E-07
taurothiocholate 3-sulfate	rs4149056	T	C	-0.0412	0.0078	1.52E-07
threonate	rs892429	A	G	0.0839	0.019	9.86E-06
threonate	rs306475	T	C	-0.0159	0.0036	9.80E-06
threonate	rs13163920	T	C	0.016	0.0036	9.51E-06
threonate	rs12753070	C	G	-0.0199	0.0045	9.34E-06

threonate	rs2050198	T	G	-0.0198	0.0045	9.25E-06
threonate	rs4908724	T	G	0.0198	0.0045	8.89E-06
threonate	rs161802	T	G	0.0199	0.0045	8.74E-06
threonate	rs17157919	T	G	-0.0321	0.0072	7.63E-06
threonate	rs9557497	A	G	0.139	0.0311	7.62E-06
threonate	rs12447958	A	G	0.0188	0.0042	7.57E-06
threonate	rs8031609	T	G	0.0198	0.0044	7.45E-06
threonate	rs9557498	T	G	-0.1385	0.0309	7.21E-06
threonate	rs306472	T	C	0.0197	0.0044	6.69E-06
threonate	rs9572687	A	G	-0.0162	0.0036	6.55E-06
threonate	rs12779637	T	C	0.0402	0.0089	6.41E-06
threonate	rs2257061	T	C	-0.0162	0.0036	6.33E-06
threonate	rs7132285	T	C	0.1371	0.0303	6.12E-06
threonate	rs576266	T	C	-0.0284	0.0063	5.97E-06
threonate	rs1060848	A	G	0.048	0.0106	5.95E-06
threonate	rs17157928	T	C	-0.0326	0.0072	5.62E-06
threonate	rs9422650	T	G	-0.0323	0.0071	5.48E-06
threonate	rs17157931	T	C	0.0361	0.0079	5.45E-06
threonate	rs9422657	A	G	-0.036	0.0079	5.41E-06
threonate	rs4418752	T	C	0.0453	0.0099	5.07E-06
threonate	rs9422442	A	C	-0.0328	0.0072	4.97E-06
threonate	rs12453836	T	C	0.0194	0.0042	4.95E-06
threonate	rs3766606	T	G	0.0207	0.0045	4.93E-06
threonate	rs9422441	A	G	0.0328	0.0072	4.87E-06
threonate	rs12452936	A	G	-0.0195	0.0043	4.72E-06
threonate	rs12449359	A	C	0.0195	0.0043	4.72E-06
threonate	rs12451314	T	C	0.0195	0.0043	4.33E-06
threonate	rs7215944	A	G	-0.0195	0.0043	4.29E-06

threonate	rs7221290	A	G	-0.0195	0.0043	4.28E-06
threonate	rs2046901	A	C	-0.0195	0.0043	4.27E-06
threonate	rs6505372	A	G	0.0196	0.0043	4.24E-06
threonate	rs7993666	T	C	0.0207	0.0045	3.67E-06
threonate	rs7226110	A	T	0.0197	0.0043	3.47E-06
threonate	rs10097949	A	G	0.0475	0.0102	3.41E-06
threonate	rs7332927	A	G	0.1384	0.0298	3.37E-06
threonate	rs12938719	A	C	-0.034	0.0073	3.36E-06
threonate	rs10512185	T	C	0.0166	0.0036	3.32E-06
threonate	rs10508896	A	G	0.0332	0.0071	3.27E-06
threonate	rs9422440	T	C	-0.0333	0.0071	3.09E-06
threonate	rs11914582	T	C	-0.0307	0.0066	2.89E-06
threonate	rs7221625	A	G	-0.02	0.0043	2.57E-06
threonate	rs2303010	T	C	-0.1471	0.0311	2.26E-06
threonate	rs6505374	A	C	-0.0203	0.0043	2.18E-06
threonate	rs989957	T	C	0.0202	0.0043	2.16E-06
threonate	rs7898761	T	C	0.0473	0.01	2.01E-06
threonate	rs989353	A	G	-0.0341	0.0072	1.98E-06
threonate	rs10512452	A	G	0.0202	0.0043	1.96E-06
threonate	rs9422439	T	C	-0.0342	0.0072	1.73E-06
threonate	rs12774453	A	G	-0.0343	0.0072	1.69E-06
threonate	rs12781506	T	C	0.0343	0.0072	1.68E-06
threonate	rs12776291	T	C	0.0343	0.0072	1.68E-06
threonate	rs9422651	A	G	-0.0343	0.0072	1.65E-06
threonate	rs17157898	C	G	0.0343	0.0072	1.65E-06
threonate	rs12779976	A	G	0.0347	0.0072	1.26E-06
threonate	rs6505373	A	T	0.0207	0.0043	1.21E-06
threonate	rs7221867	A	G	0.0351	0.0071	8.83E-07

threonate	rs2029531	A	G	-0.0216	0.0043	5.32E-07
threonate	rs989956	T	G	-0.0214	0.0043	4.63E-07
threonate	rs7216075	A	G	-0.0215	0.0043	4.39E-07
trans-4-hydroxyproline	rs7429997	T	C	-0.0161	0.0037	9.94E-06
trans-4-hydroxyproline	rs9863850	A	G	-0.0177	0.004	8.55E-06
trans-4-hydroxyproline	rs1375450	T	C	0.115	0.0258	8.15E-06
trans-4-hydroxyproline	rs17094379	A	G	0.1176	0.0262	7.12E-06
trans-4-hydroxyproline	rs17120010	A	G	-0.1181	0.0263	7.09E-06
trans-4-hydroxyproline	rs1255831	T	C	0.0341	0.0076	6.73E-06
trans-4-hydroxyproline	rs7342489	C	G	0.1192	0.0264	6.51E-06
trans-4-hydroxyproline	rs7342491	T	C	-0.1192	0.0264	6.49E-06
trans-4-hydroxyproline	rs6926138	T	C	-0.0337	0.0075	6.26E-06
trans-4-hydroxyproline	rs10906914	A	C	0.0172	0.0038	4.81E-06
trans-4-hydroxyproline	rs1357743	T	G	0.0322	0.0069	2.79E-06
tryptophan	rs2178779	A	G	-0.004	0.0009	9.98E-06
tryptophan	rs4237650	T	C	0.0039	0.0009	9.98E-06
tryptophan	rs1783537	A	G	0.004	0.0009	9.94E-06
tryptophan	rs2065166	A	G	-0.004	0.0009	9.92E-06
tryptophan	rs12487571	T	G	-0.004	0.0009	9.88E-06
tryptophan	rs4144737	A	G	0.004	0.0009	9.86E-06
tryptophan	rs2050695	T	C	-0.004	0.0009	9.86E-06
tryptophan	rs9878735	A	G	0.004	0.0009	9.76E-06
tryptophan	rs10225863	T	C	-0.004	0.0009	9.75E-06
tryptophan	rs4458728	T	G	-0.0072	0.0016	9.73E-06
tryptophan	rs4675211	T	C	-0.004	0.0009	9.73E-06
tryptophan	rs7777475	A	G	-0.004	0.0009	9.72E-06
tryptophan	rs12513744	A	G	0.0041	0.0009	9.58E-06
tryptophan	rs9948912	A	G	0.004	0.0009	9.58E-06

tryptophan	rs12503673	T	C	-0.004	0.0009	9.57E-06
tryptophan	rs12671091	T	C	0.004	0.0009	9.54E-06
tryptophan	rs1420101	T	C	-0.004	0.0009	9.53E-06
tryptophan	rs699848	T	C	0.004	0.0009	9.50E-06
tryptophan	rs7594598	A	C	0.004	0.0009	9.50E-06
tryptophan	rs6817559	A	T	-0.004	0.0009	9.43E-06
tryptophan	rs2592037	T	G	-0.004	0.0009	9.40E-06
tryptophan	rs7089599	A	C	-0.004	0.0009	9.32E-06
tryptophan	rs696701	T	C	0.004	0.0009	9.30E-06
tryptophan	rs2722379	T	C	-0.004	0.0009	9.29E-06
tryptophan	rs3754932	T	C	-0.004	0.0009	9.28E-06
tryptophan	rs938040	T	C	0.0074	0.0017	9.12E-06
tryptophan	rs33980	C	G	-0.0077	0.0017	9.11E-06
tryptophan	rs9547650	T	C	0.004	0.0009	9.11E-06
tryptophan	rs10091275	A	G	0.004	0.0009	9.10E-06
tryptophan	rs756568	C	G	-0.004	0.0009	9.10E-06
tryptophan	rs2868072	A	G	0.004	0.0009	9.04E-06
tryptophan	rs7198470	T	C	0.004	0.0009	9.00E-06
tryptophan	rs9646527	A	T	0.004	0.0009	9.00E-06
tryptophan	rs3927971	T	C	0.0042	0.0009	8.98E-06
tryptophan	rs12479210	T	C	-0.004	0.0009	8.94E-06
tryptophan	rs6454864	T	C	0.004	0.0009	8.87E-06
tryptophan	rs4849285	T	C	0.004	0.0009	8.84E-06
tryptophan	rs4849286	A	G	0.004	0.0009	8.84E-06
tryptophan	rs258747	A	G	0.004	0.0009	8.83E-06
tryptophan	rs3846758	A	T	0.004	0.0009	8.70E-06
tryptophan	rs12490596	A	G	-0.004	0.0009	8.68E-06
tryptophan	rs4849288	T	C	0.004	0.0009	8.66E-06

tryptophan	rs1028245	A	C	0.004	0.0009	8.64E-06
tryptophan	rs17650638	T	C	0.004	0.0009	8.63E-06
tryptophan	rs11729831	T	G	0.004	0.0009	8.61E-06
tryptophan	rs3773729	T	C	0.004	0.0009	8.57E-06
tryptophan	rs17710027	C	G	-0.004	0.0009	8.57E-06
tryptophan	rs11659379	T	C	0.004	0.0009	8.54E-06
tryptophan	rs56827	T	C	-0.004	0.0009	8.54E-06
tryptophan	rs12450114	A	G	0.004	0.0009	8.53E-06
tryptophan	rs4571059	T	C	0.004	0.0009	8.50E-06
tryptophan	rs4849289	A	G	-0.004	0.0009	8.47E-06
tryptophan	rs4849290	A	G	-0.004	0.0009	8.47E-06
tryptophan	rs6947698	C	G	-0.004	0.0009	8.34E-06
tryptophan	rs4870304	A	G	0.0041	0.0009	8.31E-06
tryptophan	rs6135360	T	C	0.004	0.0009	8.28E-06
tryptophan	rs12209435	A	G	0.0072	0.0016	8.25E-06
tryptophan	rs42162	T	C	0.004	0.0009	8.22E-06
tryptophan	rs10457232	A	G	-0.0073	0.0016	8.17E-06
tryptophan	rs12111379	T	C	-0.0073	0.0016	8.17E-06
tryptophan	rs6537156	T	C	0.004	0.0009	8.09E-06
tryptophan	rs8045774	T	C	-0.004	0.0009	8.09E-06
tryptophan	rs8046426	A	T	0.004	0.0009	8.08E-06
tryptophan	rs10105142	A	G	-0.0041	0.0009	8.03E-06
tryptophan	rs10495209	T	C	0.004	0.0009	8.02E-06
tryptophan	rs699856	T	C	0.004	0.0009	8.01E-06
tryptophan	rs10094978	T	C	-0.004	0.0009	7.99E-06
tryptophan	rs7326612	T	C	-0.004	0.0009	7.98E-06
tryptophan	rs7325659	C	G	0.004	0.0009	7.98E-06
tryptophan	rs16903000	T	C	-0.0067	0.0015	7.92E-06

tryptophan	rs950880	A	C	-0.004	0.0009	7.89E-06
tryptophan	rs9775766	T	C	0.004	0.0009	7.89E-06
tryptophan	rs6685230	T	C	-0.0042	0.0009	7.78E-06
tryptophan	rs1676863	T	C	-0.004	0.0009	7.76E-06
tryptophan	rs12202987	A	C	-0.0073	0.0016	7.75E-06
tryptophan	rs9950125	A	G	-0.004	0.0009	7.72E-06
tryptophan	rs1476415	A	C	0.004	0.0009	7.68E-06
tryptophan	rs12195305	A	G	0.0073	0.0016	7.66E-06
tryptophan	rs12202418	A	G	-0.0073	0.0016	7.58E-06
tryptophan	rs7776184	A	G	-0.0073	0.0016	7.55E-06
tryptophan	rs4038049	T	C	0.004	0.0009	7.54E-06
tryptophan	rs10041520	T	C	-0.004	0.0009	7.49E-06
tryptophan	rs12211045	T	C	0.0073	0.0016	7.46E-06
tryptophan	rs13001325	T	C	-0.004	0.0009	7.45E-06
tryptophan	rs6130271	T	C	-0.004	0.0009	7.40E-06
tryptophan	rs6568682	A	G	-0.0073	0.0016	7.37E-06
tryptophan	rs10782171	A	G	0.0073	0.0016	7.36E-06
tryptophan	rs3851227	C	G	0.0073	0.0016	7.34E-06
tryptophan	rs2110738	A	C	0.004	0.0009	7.33E-06
tryptophan	rs4145457	T	C	0.0073	0.0016	7.32E-06
tryptophan	rs6927920	A	T	0.0073	0.0016	7.32E-06
tryptophan	rs1015993	T	C	0.0041	0.0009	7.31E-06
tryptophan	rs2521627	A	G	0.004	0.0009	7.22E-06
tryptophan	rs38275	T	C	0.004	0.0009	7.21E-06
tryptophan	rs12215291	A	G	-0.0073	0.0016	7.19E-06
tryptophan	rs11125928	A	G	0.004	0.0009	7.18E-06
tryptophan	rs17606481	A	G	-0.0073	0.0016	7.17E-06
tryptophan	rs6730726	A	G	-0.004	0.0009	7.17E-06

tryptophan	rs11777634	T	C	-0.004	0.0009	7.17E-06
tryptophan	rs12213673	T	C	0.0073	0.0016	7.16E-06
tryptophan	rs2585160	A	G	0.004	0.0009	7.16E-06
tryptophan	rs9566157	T	C	-0.004	0.0009	7.16E-06
tryptophan	rs1418942	A	C	-0.004	0.0009	7.13E-06
tryptophan	rs2585158	T	C	0.004	0.0009	7.12E-06
tryptophan	rs12210707	T	C	0.0073	0.0016	7.11E-06
tryptophan	rs7997268	T	C	-0.004	0.0009	7.08E-06
tryptophan	rs10897267	A	G	0.004	0.0009	7.06E-06
tryptophan	rs3780494	T	C	-0.023	0.0051	7.02E-06
tryptophan	rs6110544	T	C	0.004	0.0009	7.01E-06
tryptophan	rs860713	A	G	0.004	0.0009	7.00E-06
tryptophan	rs38276	A	G	-0.004	0.0009	6.99E-06
tryptophan	rs826062	A	G	-0.004	0.0009	6.98E-06
tryptophan	rs38277	A	G	-0.004	0.0009	6.98E-06
tryptophan	rs7941992	A	G	0.004	0.0009	6.97E-06
tryptophan	rs40236	C	G	0.004	0.0009	6.95E-06
tryptophan	rs892657	T	C	-0.004	0.0009	6.93E-06
tryptophan	rs9910100	A	T	0.004	0.0009	6.93E-06
tryptophan	rs7216244	A	G	0.004	0.0009	6.92E-06
tryptophan	rs17034862	C	G	-0.004	0.0009	6.92E-06
tryptophan	rs11654913	A	T	-0.004	0.0009	6.91E-06
tryptophan	rs6435723	T	C	-0.008	0.0018	6.91E-06
tryptophan	rs4634384	T	C	0.004	0.0009	6.89E-06
tryptophan	rs329465	T	C	-0.004	0.0009	6.87E-06
tryptophan	rs347661	T	C	-0.0042	0.0009	6.84E-06
tryptophan	rs6001129	T	C	-0.009	0.002	6.80E-06
tryptophan	rs11937375	C	G	-0.018	0.004	6.80E-06

tryptophan	rs410348	A	G	0.004	0.0009	6.79E-06
tryptophan	rs38285	C	G	-0.004	0.0009	6.79E-06
tryptophan	rs12207199	A	G	0.0073	0.0016	6.76E-06
tryptophan	rs1887646	A	G	0.004	0.0009	6.75E-06
tryptophan	rs4356783	C	G	-0.0041	0.0009	6.75E-06
tryptophan	rs12214933	A	G	-0.0073	0.0016	6.70E-06
tryptophan	rs6910731	A	G	0.0041	0.0009	6.68E-06
tryptophan	rs1864235	C	G	0.0041	0.0009	6.67E-06
tryptophan	rs2264953	T	C	0.0041	0.0009	6.64E-06
tryptophan	rs1407586	A	C	-0.004	0.0009	6.59E-06
tryptophan	rs3818337	T	G	0.0041	0.0009	6.57E-06
tryptophan	rs38278	A	G	0.004	0.0009	6.56E-06
tryptophan	rs7843149	T	C	-0.0041	0.0009	6.55E-06
tryptophan	rs647126	A	G	0.004	0.0009	6.55E-06
tryptophan	rs2901056	C	G	-0.004	0.0009	6.54E-06
tryptophan	rs635441	A	G	0.004	0.0009	6.53E-06
tryptophan	rs590336	T	C	-0.004	0.0009	6.52E-06
tryptophan	rs2420095	A	G	0.004	0.0009	6.52E-06
tryptophan	rs2804244	A	G	0.004	0.0009	6.52E-06
tryptophan	rs11197357	A	C	0.004	0.0009	6.50E-06
tryptophan	rs2722407	A	G	0.0041	0.0009	6.47E-06
tryptophan	rs4973952	C	G	-0.0041	0.0009	6.47E-06
tryptophan	rs7926165	A	G	0.004	0.0009	6.47E-06
tryptophan	rs2349729	A	G	-0.0041	0.0009	6.45E-06
tryptophan	rs9543391	T	G	0.0041	0.0009	6.39E-06
tryptophan	rs1852138	A	G	0.004	0.0009	6.34E-06
tryptophan	rs6472624	A	C	-0.0041	0.0009	6.27E-06
tryptophan	rs970860	A	C	0.0041	0.0009	6.22E-06

tryptophan	rs7009696	T	C	0.0041	0.0009	6.17E-06
tryptophan	rs2769419	A	G	0.004	0.0009	6.16E-06
tryptophan	rs12214550	T	C	0.0073	0.0016	6.12E-06
tryptophan	rs4702007	A	G	-0.0041	0.0009	6.11E-06
tryptophan	rs17663278	A	C	-0.0073	0.0016	6.11E-06
tryptophan	rs9330454	A	G	-0.0066	0.0015	6.04E-06
tryptophan	rs12214886	T	C	0.0074	0.0016	6.01E-06
tryptophan	rs38272	T	G	-0.0041	0.0009	6.01E-06
tryptophan	rs2221440	A	G	-0.0041	0.0009	6.00E-06
tryptophan	rs12213248	C	G	0.0074	0.0016	6.00E-06
tryptophan	rs1150081	A	G	-0.0074	0.0016	5.98E-06
tryptophan	rs12192617	A	G	-0.0074	0.0016	5.97E-06
tryptophan	rs2429482	A	G	0.0041	0.0009	5.96E-06
tryptophan	rs17606672	C	G	0.0074	0.0016	5.95E-06
tryptophan	rs11678851	T	C	0.0041	0.0009	5.94E-06
tryptophan	rs4849291	C	G	0.0041	0.0009	5.93E-06
tryptophan	rs11605459	C	G	-0.0041	0.0009	5.90E-06
tryptophan	rs826061	T	C	0.004	0.0009	5.87E-06
tryptophan	rs7505177	T	G	-0.0043	0.0009	5.86E-06
tryptophan	rs1790404	T	C	-0.004	0.0009	5.86E-06
tryptophan	rs9649963	T	C	0.0041	0.0009	5.84E-06
tryptophan	rs1685355	A	G	0.0041	0.0009	5.74E-06
tryptophan	rs465796	T	G	0.0041	0.0009	5.70E-06
tryptophan	rs875184	T	C	-0.0041	0.0009	5.69E-06
tryptophan	rs2028574	A	T	0.0041	0.0009	5.69E-06
tryptophan	rs2028572	T	C	-0.0041	0.0009	5.69E-06
tryptophan	rs704666	T	C	-0.0041	0.0009	5.69E-06
tryptophan	rs4677728	A	G	-0.0041	0.0009	5.69E-06

tryptophan	rs1435061	T	C	0.0041	0.0009	5.68E-06
tryptophan	rs1435060	A	G	0.0041	0.0009	5.68E-06
tryptophan	rs1013667	A	G	-0.0041	0.0009	5.67E-06
tryptophan	rs3819041	C	G	-0.0041	0.0009	5.66E-06
tryptophan	rs9523030	T	G	0.0043	0.0009	5.65E-06
tryptophan	rs12192718	A	T	0.0074	0.0016	5.64E-06
tryptophan	rs16836288	A	C	0.0131	0.0029	5.60E-06
tryptophan	rs13056963	T	C	0.0043	0.0009	5.58E-06
tryptophan	rs856974	T	C	0.0041	0.0009	5.55E-06
tryptophan	rs17698249	A	C	-0.0041	0.0009	5.50E-06
tryptophan	rs10897266	A	T	-0.0041	0.0009	5.37E-06
tryptophan	rs6824174	T	C	-0.0041	0.0009	5.37E-06
tryptophan	rs13104056	T	C	-0.0041	0.0009	5.32E-06
tryptophan	rs9878578	A	G	0.0041	0.0009	5.32E-06
tryptophan	rs6077611	T	G	-0.0041	0.0009	5.32E-06
tryptophan	rs10920675	A	G	-0.0092	0.002	5.32E-06
tryptophan	rs1726745	T	C	0.0041	0.0009	5.30E-06
tryptophan	rs12455010	A	G	0.0041	0.0009	5.26E-06
tryptophan	rs4755291	A	G	-0.0041	0.0009	5.25E-06
tryptophan	rs6778716	A	G	-0.0041	0.0009	5.24E-06
tryptophan	rs2063601	A	C	-0.0107	0.0023	5.24E-06
tryptophan	rs12195578	T	C	0.0073	0.0016	5.24E-06
tryptophan	rs3751181	A	G	0.0041	0.0009	5.19E-06
tryptophan	rs10171387	A	G	0.008	0.0018	5.14E-06
tryptophan	rs430727	T	C	0.0041	0.0009	5.13E-06
tryptophan	rs11719675	A	T	-0.0041	0.0009	5.12E-06
tryptophan	rs11162247	A	G	-0.0041	0.0009	5.11E-06
tryptophan	rs16823952	T	G	-0.0083	0.0018	5.08E-06

tryptophan	rs11662496	A	G	0.0041	0.0009	4.97E-06
tryptophan	rs1366671	T	C	-0.0041	0.0009	4.94E-06
tryptophan	rs7450789	T	G	-0.0074	0.0016	4.87E-06
tryptophan	rs1929487	A	T	-0.0041	0.0009	4.87E-06
tryptophan	rs1883778	A	G	0.0041	0.0009	4.87E-06
tryptophan	rs180375	T	C	0.0041	0.0009	4.86E-06
tryptophan	rs970079	A	G	-0.0041	0.0009	4.84E-06
tryptophan	rs17678681	A	T	0.0074	0.0016	4.83E-06
tryptophan	rs12232569	A	G	0.0041	0.0009	4.82E-06
tryptophan	rs2303972	A	T	0.0041	0.0009	4.82E-06
tryptophan	rs7748625	A	G	-0.0041	0.0009	4.79E-06
tryptophan	rs2662258	T	G	-0.0041	0.0009	4.78E-06
tryptophan	rs990904	A	G	-0.0041	0.0009	4.77E-06
tryptophan	rs990905	A	T	-0.0041	0.0009	4.77E-06
tryptophan	rs7118682	T	G	-0.0041	0.0009	4.72E-06
tryptophan	rs331551	T	G	0.0041	0.0009	4.71E-06
tryptophan	rs7292	A	G	-0.0041	0.0009	4.66E-06
tryptophan	rs8085099	A	G	-0.0041	0.0009	4.63E-06
tryptophan	rs11804149	T	C	0.0041	0.0009	4.61E-06
tryptophan	rs331550	A	G	-0.0041	0.0009	4.58E-06
tryptophan	rs1501803	T	C	0.0042	0.0009	4.57E-06
tryptophan	rs7484197	A	G	-0.0041	0.0009	4.55E-06
tryptophan	rs331552	T	C	0.0041	0.0009	4.53E-06
tryptophan	rs1557271	T	C	0.0042	0.0009	4.48E-06
tryptophan	rs10460069	C	G	0.0041	0.0009	4.48E-06
tryptophan	rs11802417	T	C	-0.0041	0.0009	4.47E-06
tryptophan	rs7242438	A	G	0.0041	0.0009	4.46E-06
tryptophan	rs7761084	T	C	0.0041	0.0009	4.46E-06

tryptophan	rs713246	C	G	0.0041	0.0009	4.45E-06
tryptophan	rs1503151	T	G	0.0041	0.0009	4.45E-06
tryptophan	rs9464137	A	C	0.0041	0.0009	4.45E-06
tryptophan	rs12524036	A	T	-0.0041	0.0009	4.43E-06
tryptophan	rs915281	T	C	-0.0041	0.0009	4.42E-06
tryptophan	rs723732	T	C	0.0041	0.0009	4.40E-06
tryptophan	rs7230754	A	G	-0.0041	0.0009	4.38E-06
tryptophan	rs7275340	A	G	-0.0042	0.0009	4.36E-06
tryptophan	rs6747650	A	G	-0.0041	0.0009	4.36E-06
tryptophan	rs1828169	C	G	0.0041	0.0009	4.36E-06
tryptophan	rs1440212	A	G	0.0041	0.0009	4.35E-06
tryptophan	rs1371724	T	G	-0.0041	0.0009	4.34E-06
tryptophan	rs4450884	T	G	-0.0042	0.0009	4.32E-06
tryptophan	rs535446	C	G	0.0041	0.0009	4.28E-06
tryptophan	rs2834587	C	G	-0.0042	0.0009	4.28E-06
tryptophan	rs6933627	T	C	-0.0041	0.0009	4.26E-06
tryptophan	rs17744500	T	C	-0.0041	0.0009	4.16E-06
tryptophan	rs4447501	A	T	0.0042	0.0009	4.13E-06
tryptophan	rs1927011	A	C	-0.0041	0.0009	4.11E-06
tryptophan	rs180376	C	G	0.0041	0.0009	4.09E-06
tryptophan	rs3828151	A	C	-0.0042	0.0009	4.07E-06
tryptophan	rs2662264	A	G	0.0041	0.0009	4.06E-06
tryptophan	rs4691163	A	G	-0.0042	0.0009	3.96E-06
tryptophan	rs893922	A	G	0.0042	0.0009	3.95E-06
tryptophan	rs12787863	T	C	0.0042	0.0009	3.94E-06
tryptophan	rs2484201	T	C	0.0041	0.0009	3.93E-06
tryptophan	rs12203093	T	C	-0.0075	0.0016	3.92E-06
tryptophan	rs2722380	A	G	0.0042	0.0009	3.90E-06

tryptophan	rs7901526	A	C	0.0042	0.0009	3.84E-06
tryptophan	rs646446	A	G	-0.0042	0.0009	3.82E-06
tryptophan	rs12137081	A	G	-0.0093	0.002	3.81E-06
tryptophan	rs3209148	A	G	0.0041	0.0009	3.80E-06
tryptophan	rs9541214	T	C	-0.0042	0.0009	3.80E-06
tryptophan	rs12618875	C	G	-0.0041	0.0009	3.76E-06
tryptophan	rs7424968	T	C	-0.0042	0.0009	3.74E-06
tryptophan	rs6819555	A	G	-0.0043	0.0009	3.69E-06
tryptophan	rs7684248	T	C	-0.0042	0.0009	3.69E-06
tryptophan	rs1249489	A	G	0.0042	0.0009	3.68E-06
tryptophan	rs457492	A	G	-0.0041	0.0009	3.65E-06
tryptophan	rs10456872	T	C	0.0075	0.0016	3.63E-06
tryptophan	rs928963	A	C	0.0042	0.0009	3.62E-06
tryptophan	rs688627	T	C	0.0042	0.0009	3.62E-06
tryptophan	rs12196873	A	C	-0.0075	0.0016	3.60E-06
tryptophan	rs2178260	T	C	0.0042	0.0009	3.59E-06
tryptophan	rs6545956	A	G	0.0042	0.0009	3.59E-06
tryptophan	rs10521275	T	C	-0.0042	0.0009	3.56E-06
tryptophan	rs17114354	A	G	0.0248	0.0053	3.52E-06
tryptophan	rs575257	A	G	-0.0042	0.0009	3.51E-06
tryptophan	rs2545672	C	G	-0.0042	0.0009	3.50E-06
tryptophan	rs6486190	A	C	0.0042	0.0009	3.47E-06
tryptophan	rs10881004	T	C	0.0041	0.0009	3.39E-06
tryptophan	rs2545673	A	G	-0.0042	0.0009	3.38E-06
tryptophan	rs1911904	A	G	-0.0042	0.0009	3.38E-06
tryptophan	rs10931041	T	C	-0.0042	0.0009	3.36E-06
tryptophan	rs8056052	C	G	0.0042	0.0009	3.32E-06
tryptophan	rs13008096	A	C	-0.0042	0.0009	3.32E-06

tryptophan	rs9557883	C	G	0.0042	0.0009	3.27E-06
tryptophan	rs10853506	A	G	-0.0042	0.0009	3.26E-06
tryptophan	rs7937890	A	G	-0.0042	0.0009	3.23E-06
tryptophan	rs943674	C	G	-0.0042	0.0009	3.23E-06
tryptophan	rs943673	T	G	0.0042	0.0009	3.22E-06
tryptophan	rs9518786	A	G	-0.0042	0.0009	3.20E-06
tryptophan	rs17756732	T	C	-0.0075	0.0016	3.19E-06
tryptophan	rs7190800	T	C	-0.0043	0.0009	3.15E-06
tryptophan	rs1683253	T	C	-0.0042	0.0009	3.13E-06
tryptophan	rs1442350	A	G	0.0042	0.0009	3.13E-06
tryptophan	rs6517254	T	C	-0.0042	0.0009	3.12E-06
tryptophan	rs9989564	A	G	-0.0042	0.0009	3.10E-06
tryptophan	rs11745256	T	C	0.0042	0.0009	3.06E-06
tryptophan	rs3772343	A	C	0.028	0.006	3.06E-06
tryptophan	rs1950697	C	G	0.0042	0.0009	3.06E-06
tryptophan	rs2383131	T	C	-0.0043	0.0009	3.05E-06
tryptophan	rs8092948	A	C	0.0042	0.0009	3.04E-06
tryptophan	rs12222022	T	C	0.0042	0.0009	3.02E-06
tryptophan	rs10502948	T	G	0.0042	0.0009	2.99E-06
tryptophan	rs8094588	T	C	-0.0042	0.0009	2.95E-06
tryptophan	rs7231796	A	C	0.0042	0.0009	2.94E-06
tryptophan	rs2429502	A	C	0.0042	0.0009	2.91E-06
tryptophan	rs2927324	T	C	-0.0042	0.0009	2.91E-06
tryptophan	rs2047512	T	C	-0.0042	0.0009	2.91E-06
tryptophan	rs2915404	T	C	0.0042	0.0009	2.91E-06
tryptophan	rs4684599	T	C	-0.0042	0.0009	2.89E-06
tryptophan	rs10501687	T	C	-0.0042	0.0009	2.87E-06
tryptophan	rs8043737	T	C	-0.0042	0.0009	2.85E-06

tryptophan	rs2688858	T	C	0.0043	0.0009	2.84E-06
tryptophan	rs2126498	T	G	-0.0042	0.0009	2.84E-06
tryptophan	rs10872066	C	G	0.0042	0.0009	2.83E-06
tryptophan	rs2343714	A	G	0.0042	0.0009	2.79E-06
tryptophan	rs2880688	T	G	-0.0042	0.0009	2.79E-06
tryptophan	rs10750415	T	G	0.0042	0.0009	2.77E-06
tryptophan	rs1443348	A	G	-0.0042	0.0009	2.75E-06
tryptophan	rs1838110	A	T	0.0042	0.0009	2.74E-06
tryptophan	rs10734224	T	G	-0.0042	0.0009	2.74E-06
tryptophan	rs1260326	T	C	0.0042	0.0009	2.74E-06
tryptophan	rs9318408	A	T	-0.0042	0.0009	2.73E-06
tryptophan	rs1413927	A	G	-0.0042	0.0009	2.72E-06
tryptophan	rs161551	T	C	0.0042	0.0009	2.69E-06
tryptophan	rs9550870	T	G	0.0042	0.0009	2.66E-06
tryptophan	rs10822056	T	C	0.0042	0.0009	2.65E-06
tryptophan	rs1443347	A	G	0.0042	0.0009	2.65E-06
tryptophan	rs993927	T	G	0.0042	0.0009	2.64E-06
tryptophan	rs12200641	T	C	0.0076	0.0016	2.55E-06
tryptophan	rs2162247	T	G	0.0042	0.0009	2.53E-06
tryptophan	rs7993858	A	G	0.0042	0.0009	2.53E-06
tryptophan	rs2966079	T	C	-0.0042	0.0009	2.53E-06
tryptophan	rs4531580	A	G	0.0042	0.0009	2.52E-06
tryptophan	rs6759991	T	G	0.0076	0.0016	2.52E-06
tryptophan	rs3108871	A	G	-0.0042	0.0009	2.52E-06
tryptophan	rs1061388	A	C	-0.0076	0.0016	2.50E-06
tryptophan	rs6509523	T	C	0.0043	0.0009	2.49E-06
tryptophan	rs12205046	A	G	0.0076	0.0016	2.49E-06
tryptophan	rs180351	T	C	0.0042	0.0009	2.48E-06

tryptophan	rs12201640	A	G	0.0076	0.0016	2.47E-06
tryptophan	rs6486191	A	G	-0.0042	0.0009	2.46E-06
tryptophan	rs1460916	A	C	0.0042	0.0009	2.46E-06
tryptophan	rs9511146	A	G	-0.0042	0.0009	2.45E-06
tryptophan	rs1413928	T	C	0.0042	0.0009	2.43E-06
tryptophan	rs1861554	A	G	-0.0042	0.0009	2.43E-06
tryptophan	rs12708881	A	G	0.0043	0.0009	2.37E-06
tryptophan	rs1508513	C	G	0.0042	0.0009	2.36E-06
tryptophan	rs12433799	A	G	0.0043	0.0009	2.36E-06
tryptophan	rs12436141	C	G	-0.0043	0.0009	2.36E-06
tryptophan	rs11851950	T	G	-0.0043	0.0009	2.36E-06
tryptophan	rs17277221	T	C	-0.0043	0.0009	2.35E-06
tryptophan	rs17211285	T	G	0.0043	0.0009	2.35E-06
tryptophan	rs12891553	T	C	-0.0043	0.0009	2.35E-06
tryptophan	rs38267	T	C	-0.0043	0.0009	2.35E-06
tryptophan	rs10498266	T	G	0.0043	0.0009	2.35E-06
tryptophan	rs40450	A	G	0.0043	0.0009	2.35E-06
tryptophan	rs10263173	T	C	0.0043	0.0009	2.35E-06
tryptophan	rs875283	A	G	-0.0043	0.0009	2.34E-06
tryptophan	rs2717586	A	G	0.0043	0.0009	2.31E-06
tryptophan	rs7184897	A	T	-0.0043	0.0009	2.30E-06
tryptophan	rs1125339	A	C	-0.0043	0.0009	2.29E-06
tryptophan	rs2111117	A	G	-0.0042	0.0009	2.29E-06
tryptophan	rs258763	A	T	-0.0042	0.0009	2.28E-06
tryptophan	rs2098371	A	C	0.0042	0.0009	2.28E-06
tryptophan	rs1946153	T	C	-0.0042	0.0009	2.28E-06
tryptophan	rs1990685	A	C	-0.0042	0.0009	2.28E-06
tryptophan	rs577687	A	G	-0.0043	0.0009	2.27E-06

tryptophan	rs1015795	A	G	0.0043	0.0009	2.26E-06
tryptophan	rs12497223	T	C	0.0042	0.0009	2.26E-06
tryptophan	rs2080366	A	G	-0.0042	0.0009	2.25E-06
tryptophan	rs2080450	T	C	0.0042	0.0009	2.25E-06
tryptophan	rs2007336	T	C	-0.0042	0.0009	2.24E-06
tryptophan	rs6499669	T	C	-0.0042	0.0009	2.23E-06
tryptophan	rs6499670	T	G	0.0042	0.0009	2.23E-06
tryptophan	rs1330918	A	C	0.0042	0.0009	2.21E-06
tryptophan	rs2169244	A	G	-0.0042	0.0009	2.21E-06
tryptophan	rs2216061	A	C	0.0043	0.0009	2.21E-06
tryptophan	rs9511148	A	G	-0.0043	0.0009	2.16E-06
tryptophan	rs180346	A	C	-0.0043	0.0009	2.15E-06
tryptophan	rs2111116	A	G	0.0043	0.0009	2.12E-06
tryptophan	rs918143	T	C	0.0043	0.0009	2.07E-06
tryptophan	rs1906210	T	G	0.0043	0.0009	2.04E-06
tryptophan	rs10457237	T	C	-0.0077	0.0016	2.04E-06
tryptophan	rs2280228	A	C	0.0043	0.0009	2.00E-06
tryptophan	rs4658609	T	G	0.0043	0.0009	2.00E-06
tryptophan	rs10805503	T	C	0.0043	0.0009	2.00E-06
tryptophan	rs180340	T	C	-0.0043	0.0009	2.00E-06
tryptophan	rs3102255	A	G	0.0043	0.0009	1.99E-06
tryptophan	rs2849179	T	C	0.0043	0.0009	1.99E-06
tryptophan	rs9511149	T	C	-0.0043	0.0009	1.99E-06
tryptophan	rs12025655	T	C	0.0096	0.002	1.97E-06
tryptophan	rs10807322	A	T	0.0043	0.0009	1.97E-06
tryptophan	rs3741300	A	G	0.0043	0.0009	1.96E-06
tryptophan	rs3741301	T	C	-0.0043	0.0009	1.96E-06
tryptophan	rs207942	C	G	-0.0043	0.0009	1.95E-06

tryptophan	rs11201034	A	T	0.0043	0.0009	1.89E-06
tryptophan	rs12075192	T	C	-0.0043	0.0009	1.87E-06
tryptophan	rs1179636	A	C	-0.0045	0.001	1.83E-06
tryptophan	rs546530	T	C	0.0043	0.0009	1.77E-06
tryptophan	rs6437241	A	C	0.0043	0.0009	1.76E-06
tryptophan	rs12117477	T	C	0.0096	0.002	1.76E-06
tryptophan	rs2484178	T	C	0.0043	0.0009	1.75E-06
tryptophan	rs2342922	T	C	0.0045	0.0009	1.72E-06
tryptophan	rs9808110	T	C	-0.0043	0.0009	1.70E-06
tryptophan	rs2671898	T	G	-0.0043	0.0009	1.68E-06
tryptophan	rs6733030	C	G	-0.0043	0.0009	1.68E-06
tryptophan	rs4346442	A	T	0.0043	0.0009	1.67E-06
tryptophan	rs2915402	C	G	-0.0043	0.0009	1.65E-06
tryptophan	rs10846667	T	C	0.0045	0.0009	1.65E-06
tryptophan	rs4972916	C	G	-0.0043	0.0009	1.63E-06
tryptophan	rs2261659	C	G	-0.0043	0.0009	1.63E-06
tryptophan	rs7607428	A	C	0.0043	0.0009	1.63E-06
tryptophan	rs1412972	T	G	0.0097	0.002	1.63E-06
tryptophan	rs2439570	A	G	0.0043	0.0009	1.63E-06
tryptophan	rs6586235	A	C	0.0043	0.0009	1.62E-06
tryptophan	rs4905557	A	T	0.0043	0.0009	1.62E-06
tryptophan	rs10146571	A	G	-0.0043	0.0009	1.60E-06
tryptophan	rs927594	A	C	-0.0043	0.0009	1.59E-06
tryptophan	rs1575468	T	C	-0.0043	0.0009	1.59E-06
tryptophan	rs1951312	A	G	0.0043	0.0009	1.58E-06
tryptophan	rs7230740	A	C	0.0044	0.0009	1.56E-06
tryptophan	rs12278762	T	C	0.0043	0.0009	1.56E-06
tryptophan	rs1438162	A	G	0.0043	0.0009	1.56E-06

tryptophan	rs7246393	A	G	0.0043	0.0009	1.55E-06
tryptophan	rs13392809	T	C	0.0043	0.0009	1.55E-06
tryptophan	rs6447479	A	C	-0.0043	0.0009	1.53E-06
tryptophan	rs2287559	A	T	-0.0043	0.0009	1.52E-06
tryptophan	rs2091289	A	G	0.0043	0.0009	1.50E-06
tryptophan	rs6534667	C	G	-0.0043	0.0009	1.49E-06
tryptophan	rs10131201	A	G	0.0043	0.0009	1.48E-06
tryptophan	rs9288518	A	G	0.0043	0.0009	1.46E-06
tryptophan	rs10490363	A	G	-0.0043	0.0009	1.46E-06
tryptophan	rs180344	T	C	-0.0043	0.0009	1.46E-06
tryptophan	rs2604365	T	G	0.0044	0.0009	1.45E-06
tryptophan	rs881562	T	G	0.0044	0.0009	1.45E-06
tryptophan	rs10073440	A	G	0.0043	0.0009	1.44E-06
tryptophan	rs664059	T	C	0.0043	0.0009	1.43E-06
tryptophan	rs2970334	T	C	0.0044	0.0009	1.41E-06
tryptophan	rs6437242	A	T	-0.0043	0.0009	1.38E-06
tryptophan	rs3108858	T	C	-0.0044	0.0009	1.35E-06
tryptophan	rs3133968	T	C	-0.0044	0.0009	1.34E-06
tryptophan	rs207938	A	G	-0.0043	0.0009	1.32E-06
tryptophan	rs4063769	T	C	-0.0043	0.0009	1.30E-06
tryptophan	rs1279143	A	G	-0.0043	0.0009	1.29E-06
tryptophan	rs719564	A	G	0.0044	0.0009	1.28E-06
tryptophan	rs831374	T	C	0.0043	0.0009	1.27E-06
tryptophan	rs581150	A	C	-0.0043	0.0009	1.27E-06
tryptophan	rs736929	T	C	-0.0043	0.0009	1.25E-06
tryptophan	rs9511150	A	G	-0.0044	0.0009	1.25E-06
tryptophan	rs12468084	T	C	-0.0044	0.0009	1.25E-06
tryptophan	rs3108877	T	C	0.0044	0.0009	1.24E-06

tryptophan	rs10007704	T	C	-0.0044	0.0009	1.24E-06
tryptophan	rs7479540	T	C	-0.0044	0.0009	1.22E-06
tryptophan	rs1519309	T	C	-0.0044	0.0009	1.21E-06
tryptophan	rs641601	A	G	-0.0044	0.0009	1.19E-06
tryptophan	rs10801784	T	C	-0.0044	0.0009	1.19E-06
tryptophan	rs2813760	A	G	0.0044	0.0009	1.19E-06
tryptophan	rs3128247	T	G	0.0044	0.0009	1.18E-06
tryptophan	rs3102252	C	G	-0.0044	0.0009	1.17E-06
tryptophan	rs1484018	A	G	-0.0044	0.0009	1.17E-06
tryptophan	rs10152107	A	T	0.0044	0.0009	1.16E-06
tryptophan	rs6483413	A	G	0.0044	0.0009	1.15E-06
tryptophan	rs1563804	T	C	0.0075	0.0015	1.15E-06
tryptophan	rs4539321	A	C	0.0044	0.0009	1.14E-06
tryptophan	rs512453	T	C	-0.0044	0.0009	1.12E-06
tryptophan	rs9610322	A	G	-0.0043	0.0009	1.12E-06
tryptophan	rs3133967	T	C	-0.0044	0.0009	1.10E-06
tryptophan	rs3133970	A	G	-0.0044	0.0009	1.08E-06
tryptophan	rs2970335	A	C	0.0044	0.0009	1.02E-06
tryptophan	rs7156205	A	G	-0.0044	0.0009	1.01E-06
tryptophan	rs3825754	C	G	-0.0044	0.0009	1.01E-06
tryptophan	rs3742927	A	T	0.0044	0.0009	1.01E-06
tryptophan	rs3742929	T	C	-0.0044	0.0009	1.01E-06
tryptophan	rs10764489	A	G	0.0044	0.0009	9.79E-07
tryptophan	rs10900784	A	C	-0.0044	0.0009	9.74E-07
tryptophan	rs2161134	A	G	0.0044	0.0009	9.59E-07
tryptophan	rs4753700	A	C	0.0045	0.0009	9.55E-07
tryptophan	rs4611118	A	G	-0.0044	0.0009	9.41E-07
tryptophan	rs1220605	A	G	-0.0046	0.0009	9.29E-07

tryptophan	rs869656	A	G	0.0044	0.0009	9.20E-07
tryptophan	rs3102250	A	G	0.0045	0.0009	9.14E-07
tryptophan	rs10790950	A	T	-0.0044	0.0009	9.00E-07
tryptophan	rs650392	T	G	0.0044	0.0009	8.96E-07
tryptophan	rs9511142	A	G	-0.0044	0.0009	8.86E-07
tryptophan	rs4313678	T	C	-0.0044	0.0009	8.73E-07
tryptophan	rs3108879	T	C	-0.0045	0.0009	8.73E-07
tryptophan	rs2713243	A	C	-0.0044	0.0009	8.56E-07
tryptophan	rs985857	A	G	-0.0044	0.0009	8.50E-07
tryptophan	rs3108878	C	G	-0.0045	0.0009	8.45E-07
tryptophan	rs4989308	A	G	-0.0045	0.0009	8.43E-07
tryptophan	rs1349704	A	G	0.0044	0.0009	8.31E-07
tryptophan	rs8088963	A	G	0.0044	0.0009	8.29E-07
tryptophan	rs5025818	A	G	0.0044	0.0009	8.22E-07
tryptophan	rs694456	A	T	-0.0044	0.0009	8.20E-07
tryptophan	rs2580344	T	C	0.0044	0.0009	7.98E-07
tryptophan	rs4695289	A	G	-0.0045	0.0009	7.95E-07
tryptophan	rs9842801	C	G	0.0044	0.0009	7.91E-07
tryptophan	rs635548	T	C	-0.0044	0.0009	7.78E-07
tryptophan	rs582881	A	G	0.0044	0.0009	7.69E-07
tryptophan	rs1871053	A	G	-0.0044	0.0009	7.68E-07
tryptophan	rs3133972	T	C	0.0044	0.0009	7.55E-07
tryptophan	rs3102251	T	C	0.0044	0.0009	7.54E-07
tryptophan	rs1379367	A	G	0.0046	0.0009	7.51E-07
tryptophan	rs8110890	T	G	0.0045	0.0009	7.51E-07
tryptophan	rs4751282	T	C	0.0045	0.0009	7.41E-07
tryptophan	rs2662269	A	C	0.0045	0.0009	7.12E-07
tryptophan	rs12214380	T	C	0.0044	0.0009	7.08E-07

tryptophan	rs9689727	T	C	0.0044	0.0009	7.07E-07
tryptophan	rs6913769	A	G	-0.0044	0.0009	7.07E-07
tryptophan	rs7764591	C	G	-0.0044	0.0009	7.07E-07
tryptophan	rs12211763	A	G	0.0044	0.0009	7.07E-07
tryptophan	rs10872067	T	C	0.0044	0.0009	7.07E-07
tryptophan	rs9511103	T	C	0.0045	0.0009	6.85E-07
tryptophan	rs7735726	A	C	-0.0044	0.0009	6.80E-07
tryptophan	rs682359	T	G	0.0044	0.0009	6.54E-07
tryptophan	rs9507277	T	C	-0.0045	0.0009	6.52E-07
tryptophan	rs12533939	A	T	0.0045	0.0009	6.52E-07
tryptophan	rs6994100	A	G	-0.0045	0.0009	6.29E-07
tryptophan	rs428185	T	C	-0.0045	0.0009	6.25E-07
tryptophan	rs3133950	T	C	0.0045	0.0009	6.14E-07
tryptophan	rs1997238	A	G	0.0045	0.0009	6.07E-07
tryptophan	rs1549225	T	C	0.0045	0.0009	6.06E-07
tryptophan	rs3133961	C	G	-0.0045	0.0009	6.01E-07
tryptophan	rs12547355	A	C	-0.0045	0.0009	6.01E-07
tryptophan	rs538622	A	G	0.0045	0.0009	6.01E-07
tryptophan	rs3133942	A	G	0.0045	0.0009	6.00E-07
tryptophan	rs10836364	T	C	0.005	0.001	5.73E-07
tryptophan	rs2505644	T	C	0.005	0.001	5.73E-07
tryptophan	rs341973	T	C	0.005	0.001	5.73E-07
tryptophan	rs4407399	T	C	-0.005	0.001	5.73E-07
tryptophan	rs1000137	T	C	-0.005	0.001	5.73E-07
tryptophan	rs5997110	T	C	-0.005	0.001	5.73E-07
tryptophan	rs4686980	T	C	0.005	0.001	5.73E-07
tryptophan	rs2230532	T	C	0.005	0.001	5.73E-07
tryptophan	rs2977272	T	C	0.005	0.001	5.73E-07

tryptophan	rs2446192	T	C	0.0045	0.0009	5.67E-07
tryptophan	rs7810390	A	G	-0.0045	0.0009	5.61E-07
tryptophan	rs7717884	T	G	0.0045	0.0009	5.57E-07
tryptophan	rs11708452	A	G	0.0045	0.0009	5.52E-07
tryptophan	rs10082419	T	C	0.0045	0.0009	5.48E-07
tryptophan	rs12497219	T	C	-0.0045	0.0009	5.33E-07
tryptophan	rs514627	T	C	0.0045	0.0009	5.27E-07
tryptophan	rs486113	C	G	-0.0045	0.0009	5.22E-07
tryptophan	rs3108846	A	G	-0.0045	0.0009	5.18E-07
tryptophan	rs2284550	A	G	0.0045	0.0009	5.14E-07
tryptophan	rs10784496	A	G	0.0045	0.0009	5.09E-07
tryptophan	rs2520117	A	G	0.0045	0.0009	5.06E-07
tryptophan	rs2510595	A	G	-0.0045	0.0009	4.99E-07
tryptophan	rs3133948	A	G	-0.0045	0.0009	4.96E-07
tryptophan	rs2834165	A	G	-0.0045	0.0009	4.86E-07
tryptophan	rs7006068	T	C	0.0045	0.0009	4.80E-07
tryptophan	rs2834164	A	C	-0.0045	0.0009	4.76E-07
tryptophan	rs2391128	T	C	-0.0045	0.0009	4.71E-07
tryptophan	rs1040803	T	C	0.0045	0.0009	4.71E-07
tryptophan	rs958635	A	G	0.0045	0.0009	4.59E-07
tryptophan	rs9866856	A	G	0.0045	0.0009	4.59E-07
tryptophan	rs3851229	T	C	0.0045	0.0009	4.50E-07
tryptophan	rs3133944	T	C	0.0046	0.0009	4.46E-07
tryptophan	rs2432	T	C	0.0046	0.0009	4.28E-07
tryptophan	rs2367059	A	T	-0.0046	0.0009	3.98E-07
tryptophan	rs474688	A	G	0.0046	0.0009	3.89E-07
tryptophan	rs7752672	C	G	0.0047	0.0009	3.79E-07
tryptophan	rs4972588	A	G	-0.0046	0.0009	3.74E-07

tryptophan	rs6793798	A	G	0.0046	0.0009	3.73E-07
tryptophan	rs11720862	T	G	-0.0046	0.0009	3.58E-07
tryptophan	rs9517869	T	C	-0.0046	0.0009	3.46E-07
tryptophan	rs4880888	A	G	-0.0046	0.0009	3.24E-07
tryptophan	rs17379906	T	C	-0.0116	0.0023	3.18E-07
tryptophan	rs1263055	A	G	0.0047	0.0009	3.12E-07
tryptophan	rs1026437	C	G	0.0047	0.0009	3.12E-07
tryptophan	rs3134343	A	G	0.0046	0.0009	3.04E-07
tryptophan	rs7477069	A	G	0.0046	0.0009	3.02E-07
tryptophan	rs8006663	A	G	-0.0046	0.0009	3.02E-07
tryptophan	rs3108873	T	C	0.0046	0.0009	2.97E-07
tryptophan	rs6857228	A	T	0.0046	0.0009	2.90E-07
tryptophan	rs1638362	T	C	-0.0046	0.0009	2.89E-07
tryptophan	rs2173233	A	G	0.0046	0.0009	2.86E-07
tryptophan	rs9308012	T	G	-0.0046	0.0009	2.84E-07
tryptophan	rs7902821	A	T	-0.0046	0.0009	2.73E-07
tryptophan	rs10927101	A	C	-0.0046	0.0009	2.72E-07
tryptophan	rs13066163	T	C	0.0046	0.0009	2.64E-07
tryptophan	rs502654	T	C	-0.0046	0.0009	2.60E-07
tryptophan	rs2173234	A	G	0.0046	0.0009	2.59E-07
tryptophan	rs1900706	A	C	-0.0046	0.0009	2.50E-07
tryptophan	rs13067129	T	C	0.0047	0.0009	2.46E-07
tryptophan	rs13099050	A	C	-0.0047	0.0009	2.46E-07
tryptophan	rs1663501	A	G	-0.0047	0.0009	2.44E-07
tryptophan	rs1982946	A	C	0.0046	0.0009	2.42E-07
tryptophan	rs7476743	T	C	-0.0046	0.0009	2.39E-07
tryptophan	rs1673411	A	G	-0.0047	0.0009	2.35E-07
tryptophan	rs937382	T	C	-0.0046	0.0009	2.31E-07

tryptophan	rs10824802	T	G	0.0047	0.0009	2.24E-07
tryptophan	rs1457288	T	C	-0.0047	0.0009	2.21E-07
tryptophan	rs1783168	A	G	-0.0047	0.0009	2.20E-07
tryptophan	rs514096	A	C	0.0047	0.0009	2.15E-07
tryptophan	rs1783166	A	G	-0.0047	0.0009	2.13E-07
tryptophan	rs1783153	T	C	-0.0047	0.0009	2.11E-07
tryptophan	rs1009371	A	T	-0.0047	0.0009	2.11E-07
tryptophan	rs201260	A	C	-0.0046	0.0009	2.10E-07
tryptophan	rs10108943	A	G	-0.0047	0.0009	2.08E-07
tryptophan	rs7006166	T	C	-0.0047	0.0009	2.08E-07
tryptophan	rs7821242	T	G	-0.0047	0.0009	2.06E-07
tryptophan	rs886022	A	C	0.0047	0.0009	1.92E-07
tryptophan	rs7109477	A	G	-0.0047	0.0009	1.89E-07
tryptophan	rs1144035	T	C	-0.0047	0.0009	1.88E-07
tryptophan	rs10510300	A	G	-0.0047	0.0009	1.79E-07
tryptophan	rs7663366	C	G	0.0047	0.0009	1.79E-07
tryptophan	rs1379366	A	C	-0.0047	0.0009	1.71E-07
tryptophan	rs1783154	T	C	0.0047	0.0009	1.70E-07
tryptophan	rs1673421	C	G	-0.0047	0.0009	1.69E-07
tryptophan	rs1783162	T	C	0.0047	0.0009	1.69E-07
tryptophan	rs1673420	A	T	-0.0047	0.0009	1.69E-07
tryptophan	rs1783159	A	G	0.0047	0.0009	1.69E-07
tryptophan	rs1013482	A	G	0.0047	0.0009	1.68E-07
tryptophan	rs2607627	T	C	0.0047	0.0009	1.68E-07
tryptophan	rs1673416	A	C	0.0047	0.0009	1.67E-07
tryptophan	rs1783158	C	G	0.0047	0.0009	1.67E-07
tryptophan	rs1673415	A	C	0.0047	0.0009	1.67E-07
tryptophan	rs1783157	A	G	-0.0047	0.0009	1.67E-07

tryptophan	rs1673422	T	C	0.0047	0.0009	1.67E-07
tryptophan	rs1783141	A	G	0.0047	0.0009	1.67E-07
tryptophan	rs753995	A	G	-0.0047	0.0009	1.67E-07
tryptophan	rs1783140	A	G	-0.0047	0.0009	1.67E-07
tryptophan	rs1673419	T	C	0.0047	0.0009	1.67E-07
tryptophan	rs2607631	T	C	0.0047	0.0009	1.67E-07
tryptophan	rs2607629	A	T	0.0047	0.0009	1.67E-07
tryptophan	rs2607630	A	G	0.0047	0.0009	1.67E-07
tryptophan	rs2607628	T	C	0.0047	0.0009	1.67E-07
tryptophan	rs2844254	A	T	0.0047	0.0009	1.66E-07
tryptophan	rs1630942	A	G	0.0047	0.0009	1.65E-07
tryptophan	rs1630134	A	G	-0.0047	0.0009	1.65E-07
tryptophan	rs1379361	T	C	0.0047	0.0009	1.65E-07
tryptophan	rs1783147	C	G	-0.0047	0.0009	1.65E-07
tryptophan	rs1783148	A	T	-0.0047	0.0009	1.65E-07
tryptophan	rs1457282	T	G	-0.0047	0.0009	1.65E-07
tryptophan	rs7638383	A	G	0.0047	0.0009	1.64E-07
tryptophan	rs1995960	A	G	-0.0047	0.0009	1.63E-07
tryptophan	rs295142	A	G	-0.0048	0.0009	1.54E-07
tryptophan	rs860916	A	G	-0.0047	0.0009	1.51E-07
tryptophan	rs1263056	A	G	0.0048	0.0009	1.50E-07
tryptophan	rs2607633	T	G	0.0048	0.0009	1.40E-07
tryptophan	rs201262	T	G	0.0047	0.0009	1.36E-07
tryptophan	rs216562	A	G	-0.0048	0.0009	1.34E-07
tryptophan	rs864117	A	T	0.0048	0.0009	1.33E-07
tryptophan	rs2932524	A	G	0.0048	0.0009	1.06E-07
tryptophan	rs216556	T	C	-0.0048	0.0009	1.03E-07
tryptophan	rs302073	A	G	-0.0048	0.0009	1.02E-07

tryptophan	rs4858287	T	C	-0.0048	0.0009	9.89E-08
tryptophan	rs9811079	A	G	-0.0048	0.0009	9.87E-08
tryptophan	rs4926571	T	C	-0.0048	0.0009	9.03E-08
tryptophan	rs6826247	T	C	0.0048	0.0009	8.80E-08
tryptophan	rs1726746	T	G	0.0048	0.0009	8.43E-08
tryptophan	rs9320360	T	G	-0.0048	0.0009	7.24E-08
tryptophan	rs500608	A	C	0.0048	0.0009	6.98E-08
tryptophan	rs2658761	T	C	-0.0048	0.0009	6.75E-08
tryptophan	rs9315440	A	G	0.0048	0.0009	6.71E-08
tryptophan	rs154246	T	C	-0.0049	0.0009	6.70E-08
tryptophan	rs1022092	A	G	-0.0049	0.0009	6.53E-08
tryptophan	rs2798184	T	C	-0.0049	0.0009	6.37E-08
tryptophan	rs7918389	A	C	-0.0049	0.0009	6.33E-08
tryptophan	rs1697901	A	G	0.0049	0.0009	6.31E-08
tryptophan	rs323984	T	G	-0.0049	0.0009	6.27E-08
tryptophan	rs1726744	A	C	-0.0048	0.0009	6.15E-08
tryptophan	rs869495	A	G	-0.0049	0.0009	5.83E-08
tryptophan	rs826056	T	C	-0.0048	0.0009	5.79E-08
tryptophan	rs1790399	C	G	-0.0048	0.0009	5.79E-08
tryptophan	rs1790398	T	C	0.0048	0.0009	5.79E-08
tryptophan	rs5005388	A	G	-0.0049	0.0009	5.75E-08
tryptophan	rs161558	T	C	0.0049	0.0009	5.25E-08
tryptophan	rs8021242	T	C	0.0049	0.0009	5.18E-08
tryptophan	rs4615256	A	G	0.0049	0.0009	4.99E-08
tryptophan	rs833749	A	C	0.0049	0.0009	4.80E-08
tryptophan	rs325227	A	G	-0.0049	0.0009	4.79E-08
tryptophan	rs4357069	A	T	0.0049	0.0009	4.36E-08
tryptophan	rs6480970	A	G	-0.0049	0.0009	4.29E-08

tryptophan	rs7584842	T	C	-0.005	0.0009	4.15E-08
tryptophan	rs325226	A	C	0.005	0.0009	4.01E-08
tryptophan	rs710580	A	C	-0.005	0.0009	3.57E-08
tryptophan	rs2636101	A	G	-0.005	0.0009	3.22E-08
tryptophan	rs12864394	A	G	-0.005	0.0009	3.15E-08
tryptophan	rs9511152	A	G	-0.005	0.0009	2.99E-08
tryptophan	rs1373962	T	C	0.005	0.0009	2.71E-08
tryptophan	rs11153272	T	C	-0.005	0.0009	2.45E-08
tryptophan	rs4958379	A	G	-0.005	0.0009	2.18E-08
tryptophan	rs11153280	A	C	0.005	0.0009	1.98E-08
tryptophan	rs972459	T	C	0.005	0.0009	1.97E-08
tryptophan	rs1345390	T	C	-0.005	0.0009	1.96E-08
tryptophan	rs38268	T	C	0.0051	0.0009	1.89E-08
tryptophan	rs38263	T	C	0.0051	0.0009	1.88E-08
tryptophan	rs38264	T	C	-0.0051	0.0009	1.88E-08
tryptophan	rs1861552	T	G	-0.0051	0.0009	1.86E-08
tryptophan	rs402014	T	C	-0.0051	0.0009	1.68E-08
tryptophan	rs38269	T	C	0.0051	0.0009	1.45E-08
tryptophan	rs603446	T	C	0.0051	0.0009	1.38E-08
tryptophan	rs2111118	T	C	0.0051	0.0009	1.21E-08
tryptophan	rs38271	A	G	-0.0051	0.0009	1.19E-08
tryptophan	rs3823219	T	C	0.0051	0.0009	1.16E-08
tryptophan	rs1150078	T	C	0.0052	0.0009	8.30E-09
tryptophan	rs4695138	A	T	0.0052	0.0009	8.00E-09
tryptophan	rs1559063	C	G	0.0052	0.0009	7.82E-09
tryptophan	rs9487602	A	G	0.0052	0.0009	6.61E-09
tryptophan	rs3799739	T	C	0.0052	0.0009	6.20E-09
tryptophan	rs17101107	A	G	-0.0052	0.0009	6.12E-09

tryptophan	rs7463805	T	C	-0.0053	0.0009	4.60E-09
tryptophan	rs2398672	T	C	-0.0054	0.0009	3.99E-09
tryptophan	rs2275623	A	G	-0.0053	0.0009	3.63E-09
tryptophan	rs3799734	A	G	-0.0053	0.0009	3.21E-09
tryptophan	rs323983	T	C	0.0054	0.0009	2.25E-09
tryptophan	rs284191	A	G	-0.006	0.001	1.97E-09
tryptophan	rs3778456	A	G	0.0055	0.0009	1.22E-09
tryptophan	rs3823221	A	G	-0.0055	0.0009	1.21E-09
tryptophan	rs513748	T	G	-0.0055	0.0009	1.14E-09
tryptophan	rs524394	A	C	-0.0055	0.0009	1.12E-09
tryptophan	rs9482641	A	G	-0.0055	0.0009	8.36E-10
tryptophan	rs9491385	T	C	-0.0056	0.0009	5.62E-10
tryptophan	rs14399	A	C	-0.0056	0.0009	5.33E-10
tryptophan	rs6895003	A	C	0.0056	0.0009	5.22E-10
tryptophan	rs1040903	T	G	0.0056	0.0009	4.65E-10
tryptophan	rs1391138	T	G	-0.0056	0.0009	4.63E-10
tryptophan	rs6940945	A	T	-0.0056	0.0009	4.63E-10
tryptophan	rs323986	A	C	-0.0056	0.0009	4.57E-10
tryptophan	rs323989	A	T	-0.0056	0.0009	4.51E-10
tryptophan	rs321202	A	G	-0.0056	0.0009	4.11E-10
tryptophan	rs325275	T	C	-0.0057	0.0009	3.79E-10
tryptophan	rs6935961	A	G	-0.0056	0.0009	3.75E-10
tryptophan	rs325276	T	G	-0.0057	0.0009	3.73E-10
tryptophan	rs1150079	A	T	0.0056	0.0009	3.32E-10
tryptophan	rs1361425	A	T	0.0056	0.0009	3.32E-10
tryptophan	rs323988	C	G	0.0057	0.0009	3.24E-10
tryptophan	rs2636111	T	C	-0.0057	0.0009	3.24E-10
tryptophan	rs188955	T	C	0.0057	0.0009	3.22E-10

tryptophan	rs323991	A	G	0.0057	0.0009	3.22E-10
tryptophan	rs323990	A	G	-0.0057	0.0009	3.21E-10
tryptophan	rs7633632	A	G	-0.0057	0.0009	3.10E-10
tryptophan	rs7625772	T	G	0.0057	0.0009	2.92E-10
tryptophan	rs869494	A	T	-0.0058	0.0009	2.88E-10
tryptophan	rs325242	T	C	-0.0057	0.0009	2.54E-10
tryptophan	rs4306882	T	G	-0.0057	0.0009	2.52E-10
tryptophan	rs2297939	A	G	-0.0057	0.0009	2.14E-10
tryptophan	rs4691944	T	C	0.0111	0.0018	1.98E-10
tryptophan	rs918377	A	G	-0.0057	0.0009	1.89E-10
tryptophan	rs1016522	A	G	0.0058	0.0009	1.59E-10
tryptophan	rs354524	A	G	-0.0058	0.0009	1.55E-10
tryptophan	rs354529	A	G	-0.0058	0.0009	9.45E-11
tryptophan	rs354544	T	C	0.0059	0.0009	5.65E-11
tryptophan	rs354545	A	G	-0.0059	0.0009	5.62E-11
tryptophan	rs191632	T	C	-0.0059	0.0009	4.27E-11
tryptophan	rs193282	A	G	-0.0059	0.0009	4.27E-11
tryptophan	rs405948	A	G	-0.006	0.0009	3.41E-11
tryptophan	rs12647431	T	C	0.006	0.0009	2.97E-11
tryptophan	rs13148223	A	G	0.006	0.0009	2.37E-11
tryptophan	rs17314234	T	C	-0.0117	0.0017	1.98E-11
tryptophan	rs2271537	A	C	-0.0061	0.0009	1.88E-11
tryptophan	rs354532	T	C	-0.0061	0.0009	1.22E-11
tryptophan	rs6901004	C	G	-0.0061	0.0009	1.08E-11
tryptophan	rs13122250	T	C	0.0062	0.0009	8.95E-12
tyrosine	rs7143656	A	T	-0.011	0.0025	9.96E-06
tyrosine	rs17753195	A	G	0.0111	0.0025	9.84E-06
tyrosine	rs2335710	C	G	0.0073	0.0016	9.20E-06

tyrosine	rs906466	A	G	0.0076	0.0017	8.84E-06
tyrosine	rs12891	C	G	0.0078	0.0018	8.78E-06
tyrosine	rs9484931	T	C	0.0271	0.0061	8.74E-06
tyrosine	rs12436404	A	G	-0.0109	0.0025	8.73E-06
tyrosine	rs10873158	A	G	-0.0109	0.0024	8.63E-06
tyrosine	rs10873157	T	C	-0.0109	0.0024	8.62E-06
tyrosine	rs2288029	A	G	-0.0073	0.0016	8.61E-06
tyrosine	rs16991994	A	G	0.0079	0.0018	8.47E-06
tyrosine	rs2891733	T	C	-0.0109	0.0024	8.47E-06
tyrosine	rs11969952	T	C	0.0271	0.0061	8.37E-06
tyrosine	rs11243929	T	C	-0.0076	0.0017	8.33E-06
tyrosine	rs7184437	C	G	-0.0073	0.0016	8.22E-06
tyrosine	rs9940771	T	C	-0.0074	0.0017	7.93E-06
tyrosine	rs11861540	A	T	-0.0073	0.0016	7.62E-06
tyrosine	rs4363868	A	G	0.0073	0.0016	7.59E-06
tyrosine	rs1476592	A	G	0.0079	0.0018	7.56E-06
tyrosine	rs1476591	C	G	0.0079	0.0018	7.56E-06
tyrosine	rs13237436	A	G	-0.0076	0.0017	7.26E-06
tyrosine	rs7187354	T	C	-0.0074	0.0017	7.25E-06
tyrosine	rs2160903	T	C	-0.0112	0.0025	7.15E-06
tyrosine	rs3813743	A	G	-0.0074	0.0017	7.09E-06
tyrosine	rs1536564	T	C	0.0075	0.0017	7.05E-06
tyrosine	rs1512342	T	C	0.0072	0.0016	7.01E-06
tyrosine	rs7202953	T	G	-0.0074	0.0016	6.90E-06
tyrosine	rs4347830	A	G	0.009	0.002	6.80E-06
tyrosine	rs8035304	T	G	0.009	0.002	6.80E-06
tyrosine	rs11626695	C	G	-0.0112	0.0025	6.75E-06
tyrosine	rs4788585	A	G	0.0074	0.0016	6.69E-06

tyrosine	rs9921412	T	C	-0.0074	0.0016	6.69E-06
tyrosine	rs8019042	C	G	0.0112	0.0025	6.33E-06
tyrosine	rs11625663	C	G	-0.0113	0.0025	6.14E-06
tyrosine	rs10516469	T	C	-0.0114	0.0025	5.89E-06
tyrosine	rs8044342	A	G	0.0074	0.0016	5.70E-06
tyrosine	rs2335714	T	C	0.0075	0.0016	5.48E-06
tyrosine	rs8063324	T	G	0.0075	0.0016	5.40E-06
tyrosine	rs9497136	T	C	0.028	0.0061	5.23E-06
tyrosine	rs7834337	A	G	-0.0113	0.0025	4.71E-06
tyrosine	rs9594421	A	T	0.0075	0.0016	4.59E-06
tyrosine	rs4788815	A	T	0.0074	0.0016	4.41E-06
tyrosine	rs8057124	T	C	0.0076	0.0016	4.37E-06
tyrosine	rs1834035	C	G	0.0076	0.0016	4.36E-06
tyrosine	rs9497145	A	G	-0.028	0.0061	4.35E-06
tyrosine	rs1883136	A	C	-0.0073	0.0016	4.35E-06
tyrosine	rs9497144	A	T	-0.028	0.0061	4.31E-06
tyrosine	rs7195332	T	C	0.0077	0.0017	4.05E-06
tyrosine	rs4863214	T	C	-0.0149	0.0032	3.98E-06
tyrosine	rs7204708	A	G	0.0076	0.0016	3.81E-06
tyrosine	rs1475943	T	C	0.0079	0.0017	3.69E-06
tyrosine	rs2879560	T	C	-0.0081	0.0017	3.48E-06
tyrosine	rs9484927	T	C	-0.0284	0.0061	2.99E-06
tyrosine	rs9497137	A	G	0.0286	0.0061	2.86E-06
tyrosine	rs783084	T	C	-0.0077	0.0016	2.76E-06
tyrosine	rs1851740	A	C	-0.008	0.0017	2.74E-06
tyrosine	rs7641634	A	G	-0.0077	0.0016	2.56E-06
tyrosine	rs9327433	T	G	-0.0076	0.0016	2.53E-06
tyrosine	rs17118860	A	G	-0.008	0.0017	2.51E-06

tyrosine	rs2343614	A	G	-0.0074	0.0016	2.50E-06
tyrosine	rs2335712	T	C	-0.0077	0.0016	2.49E-06
tyrosine	rs2485916	T	C	0.0081	0.0017	2.46E-06
tyrosine	rs4808739	T	C	0.0083	0.0018	2.42E-06
tyrosine	rs7202340	A	C	0.0077	0.0016	2.39E-06
tyrosine	rs6493	A	G	0.0114	0.0024	2.35E-06
tyrosine	rs540803	T	C	0.0082	0.0017	2.24E-06
tyrosine	rs9484926	A	G	0.0297	0.0063	2.03E-06
tyrosine	rs17293820	T	G	0.0081	0.0017	2.01E-06
tyrosine	rs7748391	A	G	0.0291	0.0061	1.99E-06
tyrosine	rs9497139	A	G	-0.029	0.0061	1.97E-06
tyrosine	rs12447045	C	G	0.0078	0.0016	1.73E-06
tyrosine	rs2070832	T	C	-0.0079	0.0017	1.69E-06
tyrosine	rs7752361	A	G	0.0076	0.0016	1.63E-06
tyrosine	rs7151615	T	G	-0.0079	0.0016	1.47E-06
tyrosine	rs8111703	A	T	-0.0084	0.0017	1.47E-06
tyrosine	rs4945883	C	G	-0.0082	0.0017	1.41E-06
tyrosine	rs10033622	T	C	0.0126	0.0026	1.35E-06
tyrosine	rs4788547	A	G	-0.0079	0.0016	1.31E-06
tyrosine	rs952159	A	G	-0.0079	0.0016	1.22E-06
tyrosine	rs1532775	A	G	0.0081	0.0017	1.04E-06
tyrosine	rs3777905	T	C	0.0076	0.0016	1.03E-06
tyrosine	rs12529158	A	G	0.0076	0.0016	9.76E-07
tyrosine	rs3851225	A	G	0.0077	0.0016	9.46E-07
tyrosine	rs4788587	A	G	-0.0084	0.0017	9.37E-07
tyrosine	rs1035543	C	G	-0.008	0.0016	8.91E-07
tyrosine	rs174388	C	G	-0.0082	0.0017	7.52E-07
tyrosine	rs703014	A	G	0.0135	0.0027	7.19E-07

tyrosine	rs174383	A	G	-0.0082	0.0016	7.15E-07
tyrosine	rs9400482	A	T	-0.0141	0.0028	6.70E-07
tyrosine	rs3851229	T	C	0.0079	0.0016	6.16E-07
tyrosine	rs10872067	T	C	0.0078	0.0016	5.69E-07
tyrosine	rs7764591	C	G	-0.0078	0.0016	5.69E-07
tyrosine	rs760563	A	G	-0.0084	0.0017	5.63E-07
tyrosine	rs10872068	C	G	-0.0078	0.0016	5.17E-07
tyrosine	rs2038013	T	G	-0.0084	0.0017	5.06E-07
tyrosine	rs240954	A	G	-0.0079	0.0016	5.02E-07
tyrosine	rs240994	T	C	0.0079	0.0016	4.76E-07
tyrosine	rs10457241	A	G	0.0079	0.0016	4.34E-07
tyrosine	rs1043730	T	G	-0.0085	0.0017	4.21E-07
tyrosine	rs11153297	T	C	0.0082	0.0016	4.09E-07
tyrosine	rs6900341	T	G	0.0081	0.0016	4.08E-07
tyrosine	rs4845672	T	C	-0.0088	0.0017	3.70E-07
tyrosine	rs12208141	A	G	0.0081	0.0016	3.65E-07
tyrosine	rs464401	A	G	-0.0081	0.0016	3.59E-07
tyrosine	rs12051425	A	C	0.0088	0.0017	3.58E-07
tyrosine	rs310334	T	C	0.0084	0.0016	3.53E-07
tyrosine	rs4276544	A	G	0.008	0.0016	3.50E-07
tyrosine	rs445349	A	G	0.008	0.0016	3.50E-07
tyrosine	rs7451051	A	G	-0.008	0.0016	3.49E-07
tyrosine	rs11153294	T	C	0.008	0.0016	3.41E-07
tyrosine	rs1989574	T	C	0.008	0.0016	3.40E-07
tyrosine	rs11153293	A	T	0.008	0.0016	3.39E-07
tyrosine	rs11756643	T	C	-0.008	0.0016	3.39E-07
tyrosine	rs12190634	A	G	0.008	0.0016	3.39E-07
tyrosine	rs11153292	A	G	-0.008	0.0016	3.37E-07

tyrosine	rs11153291	T	C	0.008	0.0016	3.36E-07
tyrosine	rs11153290	T	C	0.008	0.0016	3.35E-07
tyrosine	rs455726	A	G	-0.008	0.0016	3.33E-07
tyrosine	rs458486	T	C	0.008	0.0016	3.29E-07
tyrosine	rs455732	T	C	-0.008	0.0016	3.26E-07
tyrosine	rs4788549	C	G	0.0083	0.0016	3.20E-07
tyrosine	rs462432	A	G	-0.008	0.0016	3.12E-07
tyrosine	rs456871	T	C	-0.008	0.0016	3.12E-07
tyrosine	rs466923	T	C	0.008	0.0016	3.11E-07
tyrosine	rs1623806	T	C	0.008	0.0016	3.08E-07
tyrosine	rs4788826	T	C	0.0083	0.0016	3.07E-07
tyrosine	rs462493	T	C	0.008	0.0016	3.06E-07
tyrosine	rs9940217	A	G	-0.0083	0.0016	3.05E-07
tyrosine	rs9926110	A	G	-0.0084	0.0016	3.05E-07
tyrosine	rs455247	A	G	-0.008	0.0016	3.04E-07
tyrosine	rs2036338	C	G	-0.0083	0.0016	3.01E-07
tyrosine	rs110732	T	G	-0.008	0.0016	2.98E-07
tyrosine	rs456569	T	G	0.008	0.0016	2.96E-07
tyrosine	rs465795	T	C	-0.008	0.0016	2.95E-07
tyrosine	rs12447856	T	C	-0.0084	0.0016	2.95E-07
tyrosine	rs8061078	A	T	-0.0084	0.0016	2.91E-07
tyrosine	rs12930206	A	T	-0.0084	0.0016	2.91E-07
tyrosine	rs9936249	T	C	0.0084	0.0016	2.75E-07
tyrosine	rs12597065	T	C	-0.0084	0.0016	2.69E-07
tyrosine	rs936632	A	C	-0.0089	0.0017	2.69E-07
tyrosine	rs4788814	A	T	0.0084	0.0016	2.66E-07
tyrosine	rs918721	A	G	-0.0084	0.0016	2.62E-07
tyrosine	rs9921270	T	C	0.0084	0.0016	2.62E-07

tyrosine	rs1392487	A	C	-0.0084	0.0016	2.62E-07
tyrosine	rs8048210	C	G	-0.0084	0.0016	2.60E-07
tyrosine	rs8044561	T	C	-0.0085	0.0016	2.52E-07
tyrosine	rs2432524	T	G	0.0083	0.0016	2.52E-07
tyrosine	rs4788551	T	C	-0.0084	0.0016	2.51E-07
tyrosine	rs2278031	T	C	0.0084	0.0016	2.50E-07
tyrosine	rs951453	T	C	-0.0084	0.0016	2.37E-07
tyrosine	rs12446461	T	C	-0.0085	0.0016	2.34E-07
tyrosine	rs732318	A	G	0.0085	0.0016	2.32E-07
tyrosine	rs2270831	T	C	0.0084	0.0016	2.30E-07
tyrosine	rs2270832	A	G	-0.0084	0.0016	2.29E-07
tyrosine	rs7185997	T	C	0.0085	0.0016	2.19E-07
tyrosine	rs2303220	T	G	0.0088	0.0017	2.18E-07
tyrosine	rs11648674	A	G	0.0085	0.0016	2.16E-07
tyrosine	rs10500559	T	C	0.0085	0.0016	2.15E-07
tyrosine	rs1035545	T	C	0.0085	0.0016	2.15E-07
tyrosine	rs8048057	A	G	-0.0085	0.0016	2.12E-07
tyrosine	rs8060867	T	C	0.0085	0.0016	1.89E-07
tyrosine	rs3925658	A	G	0.0086	0.0016	1.79E-07
tyrosine	rs8051212	T	C	0.0085	0.0016	1.74E-07
tyrosine	rs4788821	A	G	-0.0086	0.0016	1.17E-07
tyrosine	rs12444484	A	T	-0.0086	0.0016	1.16E-07
tyrosine	rs12932850	T	G	0.0086	0.0016	1.15E-07
tyrosine	rs3752681	T	C	0.0087	0.0016	1.10E-07
tyrosine	rs2303225	C	G	0.0087	0.0016	1.07E-07
tyrosine	rs1058747	T	C	-0.0087	0.0016	1.05E-07
tyrosine	rs8203	T	C	0.0087	0.0016	1.04E-07
tyrosine	rs6922165	A	T	0.0089	0.0017	9.80E-08

tyrosine	rs13332180	T	C	-0.0087	0.0016	9.10E-08
tyrosine	rs240965	T	C	-0.0085	0.0016	8.80E-08
tyrosine	rs11648240	A	G	0.0087	0.0016	8.76E-08
tyrosine	rs12600163	C	G	-0.0087	0.0016	8.54E-08
tyrosine	rs2291947	C	G	0.0087	0.0016	8.53E-08
tyrosine	rs4788567	A	G	-0.0087	0.0016	8.53E-08
tyrosine	rs4788812	A	G	0.0087	0.0016	8.26E-08
tyrosine	rs3829537	A	C	-0.0088	0.0016	7.24E-08
tyrosine	rs12214380	T	C	0.0084	0.0016	6.95E-08
tyrosine	rs6913769	A	G	-0.0084	0.0016	6.94E-08
tyrosine	rs12211763	A	G	0.0084	0.0016	6.94E-08
tyrosine	rs9689727	T	C	0.0084	0.0016	6.94E-08
tyrosine	rs883319	T	C	-0.0091	0.0017	5.85E-08
tyrosine	rs240974	T	C	-0.0085	0.0016	5.51E-08
tyrosine	rs4788809	A	G	-0.0088	0.0016	5.44E-08
tyrosine	rs7382725	A	T	0.0091	0.0017	5.08E-08
tyrosine	rs310331	A	T	-0.0088	0.0016	4.28E-08
tyrosine	rs6568688	T	C	-0.0093	0.0017	3.50E-08
tyrosine	rs7742244	T	C	0.0088	0.0016	3.26E-08
tyrosine	rs12920243	C	G	-0.009	0.0016	3.21E-08
tyrosine	rs12598902	T	C	-0.0091	0.0016	3.19E-08
tyrosine	rs240972	T	C	-0.0088	0.0016	3.14E-08
tyrosine	rs455834	T	C	0.0088	0.0016	3.12E-08
tyrosine	rs383515	T	C	0.0127	0.0023	2.90E-08
tyrosine	rs8062441	T	G	-0.009	0.0016	2.83E-08
tyrosine	rs6910340	A	G	0.0126	0.0023	2.79E-08
tyrosine	rs11539980	T	G	-0.0091	0.0016	2.68E-08
tyrosine	rs12744544	T	C	-0.0095	0.0017	2.67E-08

tyrosine	rs951939	T	C	-0.0091	0.0016	2.62E-08
tyrosine	rs9922054	T	C	0.0091	0.0016	2.62E-08
tyrosine	rs174407	A	G	0.0127	0.0023	2.55E-08
tyrosine	rs1392483	T	C	-0.0091	0.0016	2.34E-08
tyrosine	rs240959	A	C	-0.0089	0.0016	2.22E-08
tyrosine	rs12728678	T	C	-0.0096	0.0017	2.19E-08
tyrosine	rs56827	T	C	-0.0088	0.0016	2.15E-08
tyrosine	rs1676863	T	C	-0.0088	0.0016	2.12E-08
tyrosine	rs411604	A	G	0.009	0.0016	2.07E-08
tyrosine	rs7762054	A	G	0.0127	0.0023	2.06E-08
tyrosine	rs9936903	A	T	0.0091	0.0016	1.89E-08
tyrosine	rs10872069	A	C	0.0089	0.0016	1.65E-08
tyrosine	rs10872066	C	G	0.0089	0.0016	1.59E-08
tyrosine	rs465796	T	G	0.0089	0.0016	1.51E-08
tyrosine	rs9940990	A	T	-0.0093	0.0016	1.48E-08
tyrosine	rs12202418	A	G	-0.013	0.0023	1.44E-08
tyrosine	rs174408	A	G	0.0129	0.0023	1.41E-08
tyrosine	rs7204798	T	C	-0.0097	0.0017	1.36E-08
tyrosine	rs12203741	A	T	-0.013	0.0023	1.35E-08
tyrosine	rs12215291	A	G	-0.013	0.0023	1.33E-08
tyrosine	rs17606481	A	G	-0.013	0.0023	1.28E-08
tyrosine	rs12213673	T	C	0.013	0.0023	1.28E-08
tyrosine	rs8062477	A	G	-0.0093	0.0016	1.26E-08
tyrosine	rs12210707	T	C	0.0131	0.0023	1.24E-08
tyrosine	rs174377	A	C	0.0139	0.0024	1.16E-08
tyrosine	rs9398273	A	T	0.0096	0.0017	1.14E-08
tyrosine	rs6933627	T	C	-0.0089	0.0016	1.14E-08
tyrosine	rs174396	A	G	-0.0129	0.0023	1.10E-08

tyrosine	rs354532	T	C	-0.0091	0.0016	1.02E-08
tyrosine	rs12207199	A	G	0.0131	0.0023	9.76E-09
tyrosine	rs17606672	C	G	0.0132	0.0023	9.71E-09
tyrosine	rs174400	A	G	-0.013	0.0023	9.21E-09
tyrosine	rs457492	A	G	-0.0091	0.0016	8.90E-09
tyrosine	rs449308	A	C	0.0131	0.0023	8.22E-09
tyrosine	rs11642001	A	G	-0.0099	0.0017	7.46E-09
tyrosine	rs6936935	T	C	0.0132	0.0023	7.39E-09
tyrosine	rs6568681	T	G	0.0095	0.0016	7.23E-09
tyrosine	rs6568686	T	C	0.0097	0.0017	6.71E-09
tyrosine	rs9372301	T	C	0.0131	0.0022	6.29E-09
tyrosine	rs4245546	A	C	-0.0131	0.0022	6.27E-09
tyrosine	rs12214550	T	C	0.0133	0.0023	6.22E-09
tyrosine	rs17663278	A	C	-0.0133	0.0023	6.20E-09
tyrosine	rs12214886	T	C	0.0133	0.0023	6.10E-09
tyrosine	rs12213248	C	G	0.0133	0.0023	6.08E-09
tyrosine	rs1150081	A	G	-0.0133	0.0023	6.07E-09
tyrosine	rs12192617	A	G	-0.0133	0.0023	6.06E-09
tyrosine	rs174374	T	C	-0.0131	0.0022	5.88E-09
tyrosine	rs9387014	A	G	-0.0134	0.0023	5.19E-09
tyrosine	rs17751426	T	C	-0.0132	0.0023	4.90E-09
tyrosine	rs12207339	T	C	0.0132	0.0023	4.90E-09
tyrosine	rs12208482	A	T	0.0132	0.0023	4.90E-09
tyrosine	rs12207557	T	C	0.0132	0.0023	4.89E-09
tyrosine	rs12211045	T	C	0.0134	0.0023	4.84E-09
tyrosine	rs12209435	A	G	0.0135	0.0023	3.64E-09
tyrosine	rs12191195	C	G	-0.0133	0.0023	3.63E-09
tyrosine	rs12200758	A	G	-0.0133	0.0023	3.60E-09

tyrosine	rs12214933	A	G	-0.0135	0.0023	3.57E-09
tyrosine	rs12111379	T	C	-0.0135	0.0023	3.53E-09
tyrosine	rs10457232	A	G	-0.0135	0.0023	3.53E-09
tyrosine	rs12190135	T	C	-0.0134	0.0023	3.30E-09
tyrosine	rs7760535	C	G	-0.0094	0.0016	3.29E-09
tyrosine	rs12202987	A	C	-0.0136	0.0023	3.25E-09
tyrosine	rs3218591	A	T	0.0134	0.0023	3.23E-09
tyrosine	rs12195305	A	G	0.0136	0.0023	3.20E-09
tyrosine	rs12198788	C	G	-0.0134	0.0023	2.93E-09
tyrosine	rs12198556	T	C	0.0134	0.0023	2.90E-09
tyrosine	rs12197149	A	G	0.0134	0.0023	2.90E-09
tyrosine	rs12207774	T	C	-0.0134	0.0023	2.90E-09
tyrosine	rs12200610	C	G	-0.0134	0.0023	2.87E-09
tyrosine	rs12215189	C	G	0.0136	0.0023	2.78E-09
tyrosine	rs12199656	A	C	-0.0135	0.0023	2.66E-09
tyrosine	rs12195578	T	C	0.0136	0.0023	2.29E-09
tyrosine	rs926241	A	G	-0.0101	0.0017	2.24E-09
tyrosine	rs174398	A	G	0.0134	0.0022	2.08E-09
tyrosine	rs17756732	T	C	-0.0136	0.0023	2.00E-09
tyrosine	rs17678681	A	T	0.0137	0.0023	1.83E-09
tyrosine	rs12196873	A	C	-0.0137	0.0023	1.82E-09
tyrosine	rs9487653	A	G	0.0101	0.0017	1.78E-09
tyrosine	rs354524	A	G	-0.0097	0.0016	1.72E-09
tyrosine	rs4458728	T	G	-0.0139	0.0023	1.34E-09
tyrosine	rs10485124	C	G	-0.0138	0.0023	1.25E-09
tyrosine	rs12203093	T	C	-0.0139	0.0023	1.22E-09
tyrosine	rs6911772	C	G	-0.0138	0.0023	1.20E-09
tyrosine	rs3204953	T	C	0.0139	0.0023	1.17E-09

tyrosine	rs10456872	T	C	0.0139	0.0023	1.06E-09
tyrosine	rs12200641	T	C	0.0139	0.0023	1.04E-09
tyrosine	rs12205046	A	G	0.0139	0.0023	1.01E-09
tyrosine	rs1061388	A	C	-0.0139	0.0023	1.01E-09
tyrosine	rs12201640	A	G	0.0139	0.0023	9.95E-10
tyrosine	rs6568685	A	C	0.0102	0.0017	9.85E-10
tyrosine	rs6901004	C	G	-0.0097	0.0016	8.96E-10
tyrosine	rs10457237	T	C	-0.014	0.0023	8.42E-10
tyrosine	rs9487602	A	G	0.0097	0.0016	7.95E-10
tyrosine	rs1477386	C	G	-0.01	0.0016	7.57E-10
tyrosine	rs10782171	A	G	0.0141	0.0023	7.18E-10
tyrosine	rs3851227	C	G	0.0141	0.0023	7.16E-10
tyrosine	rs7776184	A	G	-0.0141	0.0023	7.13E-10
tyrosine	rs6568682	A	G	-0.0141	0.0023	7.01E-10
tyrosine	rs11153280	A	C	0.0097	0.0016	6.99E-10
tyrosine	rs4145457	T	C	0.0141	0.0023	6.98E-10
tyrosine	rs7450789	T	G	-0.0141	0.0023	6.97E-10
tyrosine	rs6927920	A	T	0.0141	0.0023	6.97E-10
tyrosine	rs1150078	T	C	0.0097	0.0016	6.58E-10
tyrosine	rs2432520	T	G	-0.01	0.0016	6.32E-10
tyrosine	rs12192147	C	G	0.0141	0.0023	5.57E-10
tyrosine	rs4947121	T	C	0.0103	0.0017	5.32E-10
tyrosine	rs12192718	A	T	0.0142	0.0023	5.22E-10
tyrosine	rs2297939	A	G	-0.0099	0.0016	3.87E-10
tyrosine	rs354529	A	G	-0.01	0.0016	3.35E-10
tyrosine	rs11153272	T	C	-0.01	0.0016	3.24E-10
tyrosine	rs172650	A	C	0.0102	0.0016	2.82E-10
tyrosine	rs1361425	A	T	0.01	0.0016	2.78E-10

tyrosine	rs1150079	A	T	0.01	0.0016	2.78E-10
tyrosine	rs9320360	T	G	-0.01	0.0016	2.78E-10
tyrosine	rs1022092	A	G	-0.01	0.0016	2.59E-10
tyrosine	rs1040903	T	G	0.0101	0.0016	2.51E-10
tyrosine	rs402014	T	C	-0.0101	0.0016	2.47E-10
tyrosine	rs354544	T	C	0.0101	0.0016	2.34E-10
tyrosine	rs354545	A	G	-0.0101	0.0016	2.33E-10
tyrosine	rs191632	T	C	-0.0102	0.0016	1.82E-10
tyrosine	rs193282	A	G	-0.0102	0.0016	1.82E-10
tyrosine	rs405948	A	G	-0.0102	0.0016	1.23E-10
tyrosine	rs14399	A	C	-0.0103	0.0016	8.61E-11
tyrosine	rs9320364	T	C	0.0111	0.0017	8.28E-11
tyrosine	rs241768	T	C	0.0121	0.0016	7.83E-14
tyrosine	rs9400467	T	C	-0.0121	0.0016	6.54E-14
ursodeoxycholate	rs10853978	T	C	0.054	0.0122	9.90E-06
ursodeoxycholate	rs7255072	A	G	0.0539	0.0122	9.88E-06
ursodeoxycholate	rs2288955	A	G	0.0539	0.0122	9.88E-06
ursodeoxycholate	rs2288954	C	G	-0.0539	0.0122	9.88E-06
ursodeoxycholate	rs2288952	A	G	-0.0539	0.0122	9.86E-06
ursodeoxycholate	rs2288953	T	C	0.0539	0.0122	9.85E-06
ursodeoxycholate	rs1108114	A	G	0.054	0.0122	9.85E-06
ursodeoxycholate	rs3760878	A	G	0.0545	0.0123	9.72E-06
ursodeoxycholate	rs3760877	T	C	0.0577	0.013	9.55E-06
ursodeoxycholate	rs10220643	T	C	0.0282	0.0063	8.43E-06
ursodeoxycholate	rs12585165	T	G	0.1969	0.0442	8.41E-06
ursodeoxycholate	rs6990551	A	C	-0.0363	0.0081	8.03E-06
ursodeoxycholate	rs10174534	A	G	-0.028	0.0063	7.57E-06
ursodeoxycholate	rs713423	T	G	0.0436	0.0097	7.49E-06

ursodeoxycholate	rs12880160	C	G	0.0431	0.0096	7.36E-06
ursodeoxycholate	rs927498	A	C	-0.0435	0.0097	6.91E-06
ursodeoxycholate	rs7463380	C	G	0.0763	0.0169	6.40E-06
ursodeoxycholate	rs312306	C	G	-0.0654	0.0145	6.23E-06
ursodeoxycholate	rs4901489	T	C	0.0438	0.0097	6.00E-06
ursodeoxycholate	rs1951672	C	G	0.0439	0.0097	5.84E-06
ursodeoxycholate	rs1951673	A	G	-0.0439	0.0097	5.79E-06
ursodeoxycholate	rs2720445	T	C	0.033	0.0073	5.56E-06
ursodeoxycholate	rs11736497	T	C	0.1146	0.0252	5.56E-06
ursodeoxycholate	rs9573265	T	C	0.2216	0.0488	5.55E-06
ursodeoxycholate	rs1952212	A	G	0.029	0.0062	3.57E-06
ursodeoxycholate	rs2421668	A	G	0.034	0.0073	2.87E-06
ursodeoxycholate	rs4144387	T	C	-0.0453	0.0097	2.83E-06
ursodeoxycholate	rs6420882	C	G	0.0454	0.0097	2.83E-06
ursodeoxycholate	rs12587564	A	G	0.0456	0.0097	2.63E-06
ursodeoxycholate	rs10484191	A	T	-0.0309	0.0066	2.57E-06
ursodeoxycholate	rs7150335	T	C	0.03	0.0063	1.91E-06
ursodeoxycholate	rs17118372	A	G	-0.0343	0.0071	1.60E-06
ursodeoxycholate	rs17118371	T	C	0.0343	0.0071	1.44E-06
ursodeoxycholate	rs6763802	T	G	-0.0576	0.0116	6.50E-07
valerate	rs6719403	A	G	0.0253	0.0057	9.80E-06
valerate	rs1037028	T	C	0.028	0.0063	9.75E-06
valerate	rs1882545	A	G	0.0148	0.0033	9.36E-06
valerate	rs9323713	A	G	-0.0448	0.0101	9.13E-06
valerate	rs12432812	A	C	0.045	0.01	7.17E-06
valerate	rs1371204	T	C	-0.03	0.0067	7.00E-06
valerate	rs7690478	T	C	0.015	0.0033	6.43E-06
valerate	rs2129376	A	G	0.0164	0.0036	5.67E-06

valerate	rs4076939	A	C	0.0191	0.0042	5.49E-06
valerate	rs7692407	T	C	-0.0293	0.0064	5.36E-06
valerate	rs4325575	T	C	-0.0175	0.0037	2.75E-06
valine	rs10969526	T	C	0.0055	0.0012	5.45E-06
valine	rs12375503	T	C	-0.0055	0.0012	4.95E-06
valine	rs10181551	A	G	-0.0055	0.0012	3.88E-06
valine	rs10050054	T	C	-0.0336	0.0072	3.18E-06
valine	rs4540481	T	C	-0.0057	0.0012	2.81E-06
valine	rs4879407	A	G	0.0057	0.0012	2.67E-06
valine	rs17732955	T	C	0.0056	0.0012	2.42E-06
valine	rs10084365	A	G	-0.0057	0.0012	1.82E-06
valine	rs2315385	A	G	0.0058	0.0012	1.45E-06
valine	rs12552913	A	T	-0.0059	0.0012	1.16E-06
valine	rs4263162	C	G	0.0058	0.0012	1.12E-06
valine	rs3762466	T	C	0.0058	0.0012	1.06E-06
valine	rs2373642	A	G	-0.054	0.011	9.78E-07
valine	rs4423843	A	G	-0.0061	0.0012	4.11E-07
valine	rs17789147	C	G	-0.006	0.0012	3.87E-07
valine	rs6819344	A	C	0.006	0.0012	3.71E-07
valine	rs881561	A	G	0.006	0.0012	2.88E-07
valine	rs17789621	T	C	0.0066	0.0012	3.52E-08
valine	rs10024717	A	G	0.0066	0.0012	2.66E-08
valine	rs893970	T	C	-0.0067	0.0012	2.55E-08
valine	rs4693209	C	G	0.0065	0.0012	2.13E-08
valine	rs893971	A	G	-0.0066	0.0012	1.90E-08
valine	rs17789027	A	G	-0.0066	0.0012	1.72E-08
valine	rs2869926	T	C	0.0066	0.0012	1.62E-08
valine	rs9637599	A	C	-0.0073	0.0012	4.78E-10

valine	rs7660693	T	C	-0.0073	0.0012	3.72E-10
valine	rs6841731	A	G	0.0074	0.0012	2.23E-10
valine	rs1975393	T	C	0.0074	0.0012	2.19E-10
valine	rs7678928	T	C	0.0076	0.0012	4.17E-11
valine	rs1440581	T	C	-0.0081	0.0012	2.56E-12

Our study selected single nucleotide polymorphisms (SNPs) at thresholds $p < 1 \times 10^{-5}$ as genetic instruments, variants for the linkage disequilibrium (LD, $R^2 < 0.001$) were excluded and proxy SNPs ($R^2 > 0.9$) that were not available in the GWAS dataset were found.

Supplementary Table 4. Odds ratio for association of genetically predicted gut microbiota with neurodegenerative diseases using the method of Inverse variance weighted (IVW).

Exposure	Outcome: Alzheimer's disease			Outcome: Parkinson's disease			Outcome: Amyotrophic lateral sclerosis		
	Number of SNPs	P	OR (95%CI)	Number of SNPs	P	OR (95%CI)	Number of SNPs	P	OR (95%CI)
phylum.Actinobacteria.id.400	15	0.09	1.023 (0.996,1.051)	15	0.44	1.118 (0.843,1.484)	15	0.92	1.007 (0.876,1.158)
phylum.Bacteroidetes.id.905	12	0.51	0.991 (0.964,1.018)	12	0.36	0.906 (0.734,1.119)	12	0.44	0.938 (0.797,1.105)
phylum.Cyanobacteria.id.1500	8	0.91	1.001 (0.98,1.023)	8	0.26	1.102 (0.931,1.306)	8	0.18	0.875 (0.721,1.063)
phylum.Euryarchaeota.id.55	12	0.83	0.999 (0.987,1.011)	12	0.83	1.012 (0.903,1.134)	12	0.62	1.019 (0.946,1.097)
phylum.Firmicutes.id.1672	16	0.83	0.998 (0.976,1.02)	16	0.37	1.127 (0.866,1.466)	16	0.90	1.009 (0.875,1.164)
phylum.Lentisphaerae.id.2238	9	0.61	0.996 (0.981,1.011)	9	0.01	0.836 (0.724,0.965)	9	0.54	1.03 (0.939,1.129)
phylum.Proteobacteria.id.2375	12	0.33	0.987 (0.96,1.014)	12	0.53	1.082 (0.844,1.386)	12	0.57	0.955 (0.815,1.12)
phylum.Tenericutes.id.3919	12	0.19	0.982 (0.956,1.009)	12	0.87	0.985 (0.819,1.184)	12	0.57	0.959 (0.83,1.108)
phylum.Verrucomicrobia.id.3982	12	0.93	1.001 (0.981,1.021)	12	0.43	0.931 (0.779,1.113)	12	0.64	1.03 (0.909,1.167)
class.Actinobacteria.id.419	15	0.01	1.027 (1.006,1.048)	15	0.97	0.995 (0.807,1.228)	15	0.31	1.07 (0.938,1.22)
class.Alphaproteobacteria.id.2379	7	0.15	1.018 (0.994,1.044)	7	0.35	0.881 (0.674,1.152)	7	0.36	1.076 (0.92,1.258)
class.Bacilli.id.1673	18	0.98	1 (0.981,1.02)	18	0.48	1.078 (0.876,1.328)	18	0.66	1.028 (0.909,1.162)
class.Bacteroidia.id.912	14	0.72	0.994 (0.962,1.027)	14	0.70	0.961 (0.783,1.179)	14	0.49	0.949 (0.818,1.101)
class.Betaproteobacteria.id.2867	12	0.41	0.986 (0.955,1.019)	12	0.17	0.85 (0.672,1.075)	12	0.13	0.888 (0.76,1.037)
class.Clostridia.id.1859	12	0.42	0.989 (0.961,1.017)	12	0.71	1.056 (0.788,1.416)	12	0.83	1.021 (0.849,1.227)
class.Coriobacteriia.id.809	14	0.46	1.01 (0.983,1.038)	14	0.68	0.943 (0.712,1.248)	14	0.46	1.059 (0.91,1.233)
class.Deltaproteobacteria.id.3087	13	0.25	1.012 (0.992,1.033)	13	0.76	1.033 (0.836,1.277)	13	0.78	0.981 (0.852,1.128)
class.Erysipelotrichia.id.2147	13	0.95	1.001 (0.976,1.026)	13	0.53	0.911 (0.681,1.219)	13	0.91	0.991 (0.848,1.158)
class.Gammaproteobacteria.id.3303	7	0.81	1.005 (0.962,1.051)	7	0.79	0.963 (0.728,1.273)	7	0.19	0.858 (0.684,1.077)
class.Lentisphaeria.id.2250	8	0.55	0.995 (0.979,1.011)	8	0.03	0.847 (0.728,0.986)	8	0.37	1.046 (0.949,1.153)
class.Melainabacteria.id.1589	10	0.14	1.012 (0.996,1.029)	10	0.93	0.992 (0.827,1.19)	10	0.27	0.933 (0.825,1.056)
class.Methanobacteria.id.119	10	0.34	0.994 (0.981,1.007)	10	0.20	1.082 (0.959,1.22)	10	0.72	1.014 (0.939,1.095)
class.Mollicutes.id.3920	12	0.19	0.982 (0.956,1.009)	12	0.87	0.985 (0.819,1.184)	12	0.57	0.959 (0.83,1.108)
class.Negativicutes.id.2164	12	0.10	1.026 (0.995,1.056)	12	0.22	1.166 (0.914,1.487)	12	0.42	0.938 (0.803,1.096)
class.Verrucomicrobiae.id.4029	11	0.65	1.005 (0.985,1.025)	11	0.95	1.006 (0.829,1.22)	11	0.61	1.037 (0.9,1.195)
order.Actinomycetales.id.420	5	0.22	0.976 (0.937,1.015)	5	0.78	1.035 (0.815,1.313)	14	0.52	1.035 (0.933,1.148)
order.Bacillales.id.1674	9	0.50	0.996 (0.984,1.008)	9	0.03	1.144 (1.013,1.292)	12	0.42	0.938 (0.803,1.096)

order.Bacteroidales.id.913	14	0.72	0.994 (0.962,1.027)	14	0.70	0.961 (0.783,1.179)	10	0.72	1.014 (0.939,1.095)
order.Bifidobacteriales.id.432	12	0.11	1.022 (0.995,1.05)	12	0.84	1.033 (0.759,1.405)	14	0.46	1.059 (0.91,1.233)
order.Burkholderiales.id.2874	11	0.47	0.989 (0.959,1.019)	11	0.36	0.893 (0.702,1.136)	12	0.68	0.968 (0.83,1.13)
order.Clostridiales.id.1863	13	0.55	0.992 (0.966,1.019)	13	1.00	1 (0.742,1.347)	8	0.37	1.046 (0.949,1.153)
order.Coriobacteriales.id.810	14	0.46	1.01 (0.983,1.038)	14	0.68	0.943 (0.712,1.248)	12	0.60	0.954 (0.8,1.138)
order.Desulfovibrionales.id.3156	12	0.39	1.009 (0.988,1.031)	12	0.87	0.98 (0.778,1.236)	11	0.16	0.89 (0.758,1.045)
order.Enterobacteriales.id.3468	7	0.66	0.993 (0.964,1.024)	7	0.92	1.015 (0.746,1.382)	14	0.49	0.949 (0.818,1.101)
order.Erysipelotrichales.id.2148	13	0.95	1.001 (0.976,1.026)	13	0.53	0.911 (0.681,1.219)	9	0.17	0.914 (0.805,1.038)
order.Gastranaerophilales.id.1591	9	0.09	1.014 (0.998,1.031)	9	0.82	0.981 (0.832,1.157)	7	0.86	1.017 (0.845,1.225)
order.Lactobacillales.id.1800	15	0.64	1.006 (0.982,1.029)	15	0.46	1.097 (0.857,1.404)	5	0.83	0.983 (0.844,1.145)
order.Methanobacteriales.id.120	10	0.34	0.994 (0.981,1.007)	10	0.20	1.082 (0.959,1.22)	13	0.91	0.991 (0.848,1.158)
order.MollicutesRF9.id.11579	13	0.83	0.998 (0.979,1.017)	13	0.88	0.986 (0.822,1.183)	14	0.52	0.969 (0.881,1.066)
order.NB1n.id.3953	13	0.82	0.998 (0.979,1.017)	13	0.11	1.102 (0.98,1.239)	15	0.57	1.039 (0.91,1.186)
order.Pasteurellales.id.3688	14	0.45	1.008 (0.988,1.028)	14	0.38	0.939 (0.816,1.08)	13	0.80	1.015 (0.905,1.138)
order.Rhodospirillales.id.2667	14	0.72	0.996 (0.975,1.018)	13	0.21	0.888 (0.738,1.069)	13	0.96	1.004 (0.843,1.197)
order.Selenomonadales.id.2165	12	0.10	1.026 (0.995,1.056)	12	0.22	1.166 (0.914,1.487)	11	0.61	1.037 (0.9,1.195)
order.Verrucomicrobiales.id.4030	11	0.65	1.005 (0.985,1.025)	11	0.95	1.006 (0.829,1.22)	9	0.70	0.984 (0.909,1.066)
order.Victivallales.id.2254	8	0.55	0.995 (0.979,1.011)	8	0.03	0.847 (0.728,0.986)	13	0.79	1.013 (0.923,1.111)
family.Acidaminococcaceae.id.2166	7	0.17	0.982 (0.957,1.008)	7	0.46	0.901 (0.682,1.19)	7	0.93	1.008 (0.85,1.195)
family.Actinomycetaceae.id.421	5	0.22	0.976 (0.938,1.015)	5	0.78	1.034 (0.815,1.313)	5	0.83	0.983 (0.844,1.145)
family.Alcaligenaceae.id.2875	12	0.52	1.008 (0.984,1.032)	12	0.82	0.973 (0.77,1.23)	12	0.20	0.904 (0.776,1.053)
family.Bacteroidaceae.id.917	9	0.14	0.978 (0.949,1.007)	9	0.59	1.081 (0.817,1.431)	9	0.47	0.91 (0.708,1.171)
family.BacteroidalesS24.7group.id.11173	9	0.11	0.984 (0.966,1.003)	9	0.94	0.992 (0.799,1.231)	9	0.27	1.089 (0.936,1.267)
family.Bifidobacteriaceae.id.433	12	0.11	1.022 (0.995,1.05)	12	0.84	1.033 (0.759,1.405)	12	0.60	0.954 (0.8,1.138)
family.Christensenellaceae.id.1866	11	0.30	0.986 (0.96,1.013)	11	0.86	0.974 (0.723,1.313)	11	0.21	1.095 (0.95,1.262)
family.Clostridiaceae1.id.1869	10	0.24	0.98 (0.947,1.014)	10	0.37	1.148 (0.85,1.551)	10	0.96	0.996 (0.853,1.163)
family.ClostridialesvadinBB60group.id.11286	15	0.38	0.993 (0.977,1.009)	15	0.82	1.019 (0.868,1.196)	15	0.16	0.927 (0.836,1.029)
family.Coriobacteriaceae.id.811	14	0.46	1.01 (0.983,1.038)	14	0.68	0.943 (0.712,1.248)	14	0.46	1.059 (0.91,1.233)
family.Defluviitaleaceae.id.1924	11	0.20	1.012 (0.994,1.032)	11	0.60	0.932 (0.72,1.208)	11	0.66	0.971 (0.851,1.108)
family.Desulfovibrionaceae.id.3169	10	0.33	1.011 (0.989,1.034)	10	0.96	0.994 (0.76,1.299)	10	0.72	0.97 (0.819,1.148)
family.Enterobacteriaceae.id.3469	7	0.66	0.993 (0.964,1.024)	7	0.92	1.015 (0.746,1.382)	7	0.86	1.017 (0.845,1.225)
family.Erysipelotrichaceae.id.2149	13	0.95	1.001 (0.976,1.026)	13	0.53	0.911 (0.681,1.219)	13	0.91	0.991 (0.848,1.158)

family.FamilyXI.id.1936	8	0.86	1.002 (0.982,1.022)	8	0.48	1.046 (0.924,1.184)	8	0.27	0.952 (0.872,1.039)
family.FamilyXIII.id.1957	11	0.78	0.996 (0.969,1.024)	11	0.46	1.103 (0.851,1.428)	11	0.72	0.972 (0.831,1.137)
family.Lachnospiraceae.id.1987	17	0.90	0.999 (0.978,1.02)	17	0.51	0.943 (0.792,1.124)	17	0.57	1.038 (0.914,1.179)
family.Lactobacillaceae.id.1836	9	0.01	1.027 (1.006,1.05)	9	0.96	1.008 (0.747,1.361)	9	0.70	0.978 (0.873,1.095)
family.Methanobacteriaceae.id.121	10	0.34	0.994 (0.981,1.007)	10	0.20	1.082 (0.959,1.22)	10	0.72	1.014 (0.939,1.095)
family.Oxalobacteraceae.id.2966	14	0.80	1.002 (0.989,1.014)	14	0.04	1.13 (1.003,1.273)	14	0.44	0.97 (0.897,1.049)
family.Pasteurellaceae.id.3689	14	0.45	1.008 (0.988,1.028)	14	0.38	0.939 (0.816,1.08)	14	0.52	0.969 (0.881,1.066)
family.Peptococcaceae.id.2024	9	0.45	0.992 (0.971,1.013)	9	0.58	0.947 (0.781,1.15)	9	0.42	0.942 (0.815,1.09)
family.Peptostreptococcaceae.id.2042	14	0.90	0.998 (0.976,1.022)	13	0.29	1.106 (0.917,1.334)	14	0.99	1.001 (0.887,1.129)
family.Porphyrimonadaceae.id.943	9	0.61	1.008 (0.978,1.039)	9	0.34	0.852 (0.614,1.183)	9	0.88	0.986 (0.818,1.188)
family.Prevotellaceae.id.960	16	0.73	0.996 (0.976,1.017)	16	0.72	1.039 (0.847,1.273)	16	0.53	1.039 (0.921,1.172)
family.Rhodospirillaceae.id.2717	15	0.82	1.002 (0.983,1.022)	14	0.22	0.903 (0.768,1.062)	15	0.35	1.049 (0.948,1.159)
family.Rikenellaceae.id.967	19	0.13	1.016 (0.996,1.036)	19	0.31	1.101 (0.913,1.329)	19	0.16	1.099 (0.963,1.254)
family.Ruminococcaceae.id.2050	10	0.68	0.995 (0.973,1.018)	10	0.75	1.053 (0.768,1.444)	10	0.38	1.072 (0.917,1.252)
family.Streptococcaceae.id.1850	14	0.48	0.992 (0.971,1.014)	14	0.25	0.866 (0.679,1.105)	14	0.47	1.053 (0.916,1.21)
family.Veillonellaceae.id.2172	19	0.18	0.988 (0.97,1.006)	19	0.80	0.977 (0.817,1.169)	19	0.53	1.039 (0.923,1.168)
family.Verrucomicrobiaceae.id.4036	11	0.65	1.005 (0.985,1.025)	11	0.95	1.006 (0.829,1.22)	11	0.61	1.037 (0.9,1.195)
family.Victivallaceae.id.2255	12	0.56	0.996 (0.985,1.008)	12	0.42	0.954 (0.853,1.068)	12	0.15	1.065 (0.978,1.159)
genus..Clostridiuminnocuumgroup.id.14397	9	0.78	1.002 (0.987,1.018)	9	0.56	1.056 (0.879,1.268)	9	0.36	1.05 (0.945,1.167)
genus..Eubacteriumbrachygroup.id.11296	10	0.41	0.992 (0.972,1.011)	10	0.43	0.95 (0.836,1.078)	10	0.29	0.955 (0.876,1.04)
genus..Eubacteriumcoprostanoligenesgroup.id.11375	13	0.55	1.008 (0.983,1.033)	13	0.11	1.213 (0.957,1.537)	13	0.52	0.953 (0.822,1.105)
genus..Eubacteriumeligensgroup.id.14372	7	0.35	1.015 (0.984,1.047)	7	0.90	0.981 (0.727,1.325)	7	0.49	1.071 (0.881,1.302)
genus..Eubacteriumfissicatengroup.id.14373	9	0.55	0.996 (0.981,1.01)	9	0.20	0.915 (0.798,1.048)	9	0.60	0.975 (0.885,1.074)
genus..Eubacteriumhalliigroup.id.11338	16	0.55	1.007 (0.984,1.031)	16	0.01	1.253 (1.055,1.487)	16	0.31	1.065 (0.943,1.201)
genus..Eubacteriumnodatumgroup.id.11297	11	0.25	0.991 (0.977,1.006)	11	0.88	1.011 (0.88,1.161)	11	0.36	1.034 (0.962,1.111)
genus..Eubacteriumoxidoreducensgroup.id.11339	5	0.86	0.997 (0.967,1.028)	5	0.82	0.975 (0.784,1.211)	5	0.09	0.888 (0.773,1.021)
genus..Eubacteriumrectalegroup.id.14374	8	0.49	1.01 (0.981,1.041)	8	0.52	1.105 (0.816,1.495)	8	0.13	0.861 (0.71,1.045)
genus..Eubacteriumruminantiumgroup.id.11340	18	0.76	1.002 (0.989,1.015)	18	0.77	1.02 (0.893,1.166)	18	0.64	1.027 (0.92,1.146)
genus..Eubacteriumventriosumgroup.id.11341	15	0.58	1.008 (0.98,1.037)	15	0.99	1.001 (0.815,1.228)	15	0.53	0.953 (0.819,1.108)
genus..Eubacteriumxylanophilumgroup.id.14375	9	0.28	0.986 (0.96,1.012)	9	0.06	1.26 (0.988,1.606)	9	0.97	1.003 (0.845,1.191)
genus..Ruminococcusgavreuiiigroup.id.11342	12	0.16	0.983 (0.961,1.006)	12	0.45	0.92 (0.738,1.145)	12	0.32	1.072 (0.934,1.231)
genus..Ruminococcusgnavusgroup.id.14376	12	0.52	1.005 (0.99,1.02)	12	0.54	0.956 (0.828,1.105)	12	0.03	0.884 (0.792,0.986)

genus..Ruminococcestorquesgroup.id.14377	9	0.83	1.005 (0.962,1.049)	9	0.72	0.954 (0.742,1.228)	9	0.38	1.078 (0.912,1.274)
genus.Actinomyces.id.423	7	0.08	0.977 (0.953,1.003)	7	0.93	0.992 (0.821,1.199)	7	0.50	0.957 (0.844,1.086)
genus.Adlercreutzia.id.812	8	0.07	1.021 (0.998,1.044)	8	0.61	1.082 (0.798,1.468)	8	0.79	1.019 (0.889,1.168)
genus.Akkermansia.id.4037	11	0.65	1.005 (0.985,1.025)	11	0.95	1.006 (0.829,1.219)	11	0.61	1.037 (0.9,1.195)
genus.Alistipes.id.968	14	0.63	1.006 (0.982,1.03)	14	0.80	1.03 (0.821,1.292)	14	0.95	0.995 (0.85,1.165)
genus.Allisonella.id.2174	8	0.30	0.993 (0.98,1.006)	8	0.51	0.955 (0.833,1.095)	8	0.67	1.023 (0.922,1.136)
genus.Alloprevotella.id.961	6	0.08	1.013 (0.998,1.028)	6	0.69	0.956 (0.767,1.192)	6	0.38	1.051 (0.939,1.177)
genus.Anaerofilum.id.2053	11	0.90	0.999 (0.984,1.014)	11	0.47	1.055 (0.913,1.22)	11	0.56	1.026 (0.941,1.12)
genus.Anaerostipes.id.1991	13	0.79	1.003 (0.979,1.028)	13	0.01	0.744 (0.587,0.944)	13	0.41	0.932 (0.79,1.101)
genus.Anaerotruncus.id.2054	13	0.98	1 (0.978,1.023)	13	0.12	1.194 (0.955,1.493)	13	0.08	1.139 (0.984,1.318)
genus.Bacteroides.id.918	9	0.14	0.978 (0.949,1.007)	9	0.59	1.081 (0.817,1.431)	9	0.47	0.91 (0.708,1.171)
genus.Barnesiella.id.944	14	0.93	1.001 (0.976,1.027)	14	0.55	1.084 (0.832,1.411)	14	0.21	0.904 (0.771,1.059)
genus.Bifidobacterium.id.436	13	0.25	1.011 (0.992,1.031)	13	0.17	0.845 (0.665,1.072)	13	0.87	1.014 (0.857,1.201)
genus.Bilophila.id.3170	13	0.87	1.003 (0.972,1.034)	13	0.81	1.024 (0.839,1.25)	13	0.07	1.13 (0.991,1.289)
genus.Blautia.id.1992	13	0.93	0.999 (0.965,1.033)	13	0.91	1.013 (0.813,1.262)	13	0.44	1.083 (0.885,1.325)
genus.Butyricicoccus.id.2055	8	0.19	0.985 (0.964,1.007)	8	0.72	0.954 (0.739,1.232)	8	0.22	0.91 (0.783,1.058)
genus.Butyricimonas.id.945	13	0.63	1.004 (0.987,1.023)	13	0.43	0.935 (0.792,1.104)	13	0.62	1.033 (0.907,1.176)
genus.Butyrivibrio.id.1993	15	0.09	0.991 (0.981,1.001)	15	0.66	1.022 (0.928,1.125)	15	0.41	0.974 (0.914,1.037)
genus.CandidatusSoleaferrea.id.11350	9	0.41	0.991 (0.968,1.013)	10	0.08	1.156 (0.982,1.36)	10	0.93	1.005 (0.884,1.143)
genus.Catenibacterium.id.2153	5	0.84	1.003 (0.976,1.03)	5	0.74	1.027 (0.877,1.202)	5	0.02	0.848 (0.74,0.97)
genus.ChristensenellaceaeR.7group.id.11283	10	0.69	0.992 (0.956,1.03)	10	0.40	1.138 (0.844,1.535)	10	0.36	1.092 (0.904,1.32)
genus.Clostridiumsensustricto1.id.1873	7	0.15	0.974 (0.939,1.01)	7	0.01	1.354 (1.068,1.716)	7	0.63	1.039 (0.89,1.214)
genus.Collinsella.id.815	9	0.66	1.006 (0.98,1.032)	9	0.48	1.098 (0.848,1.421)	9	0.42	0.932 (0.786,1.106)
genus.Coproacter.id.949	11	0.43	0.992 (0.973,1.012)	11	0.69	0.97 (0.834,1.127)	11	0.93	1.004 (0.909,1.11)
genus.Coprococcus1.id.11301	12	0.95	0.999 (0.978,1.021)	12	0.81	0.956 (0.66,1.386)	12	0.09	1.127 (0.98,1.297)
genus.Coprococcus2.id.11302	8	0.51	0.992 (0.967,1.017)	8	0.89	1.025 (0.731,1.436)	8	0.94	1.007 (0.853,1.188)
genus.Coprococcus3.id.11303	9	0.47	1.016 (0.973,1.06)	9	0.64	0.939 (0.723,1.22)	9	0.44	1.086 (0.88,1.34)
genus.DefluviitaleaceaeUCG011.id.11287	9	0.34	1.011 (0.989,1.033)	9	0.10	0.832 (0.669,1.036)	9	1.00	1 (0.859,1.165)
genus.Desulfovibrio.id.3173	10	0.49	0.992 (0.969,1.015)	10	0.41	0.916 (0.744,1.129)	10	0.72	0.975 (0.849,1.12)
genus.Dialister.id.2183	11	0.92	0.999 (0.978,1.02)	11	0.78	0.97 (0.783,1.202)	11	0.45	1.071 (0.898,1.277)
genus.Dorea.id.1997	10	0.86	0.997 (0.966,1.029)	10	0.19	1.219 (0.91,1.633)	10	0.81	0.977 (0.811,1.177)
genus.Eggerthella.id.819	11	0.42	1.007 (0.991,1.023)	11	0.94	0.993 (0.815,1.209)	11	0.31	0.951 (0.864,1.048)

genus.Eisenbergiella.id.11304	11	0.25	1.009 (0.994,1.024)	11	0.83	1.019 (0.86,1.207)	11	0.21	1.065 (0.966,1.175)
genus.Enterorhabdus.id.820	7	0.86	1.002 (0.976,1.03)	7	0.79	0.973 (0.796,1.191)	7	0.24	1.111 (0.932,1.324)
genus.Erysipelatoclostridium.id.11381	15	0.86	1.002 (0.984,1.02)	15	0.85	1.019 (0.838,1.239)	15	0.69	0.979 (0.883,1.086)
genus.ErysipelotrichaceaeUCG003.id.11384	16	0.36	1.01 (0.988,1.033)	16	0.07	0.847 (0.708,1.013)	16	0.82	0.986 (0.872,1.114)
genus.Escherichia.Shigella.id.3504	10	0.96	1.001 (0.972,1.03)	10	0.84	1.023 (0.827,1.265)	10	0.20	1.1 (0.952,1.27)
genus.Faecalibacterium.id.2057	10	0.03	0.975 (0.954,0.997)	10	0.05	1.247 (1,1.556)	10	0.44	0.94 (0.803,1.101)
genus.FamilyXIIIAD3011group.id.11293	12	0.18	0.981 (0.955,1.009)	13	0.28	0.87 (0.676,1.118)	13	0.40	0.943 (0.822,1.082)
genus.FamilyXIIIUCG001.id.11294	8	0.76	0.996 (0.97,1.022)	8	0.79	1.032 (0.823,1.293)	8	0.10	1.139 (0.974,1.333)
genus.Flavonifractor.id.2059	5	0.50	1.013 (0.976,1.052)	5	0.97	1.004 (0.761,1.325)	5	0.25	1.119 (0.923,1.356)
genus.Fusicatenibacter.id.11305	18	0.30	0.989 (0.967,1.01)	18	0.15	1.161 (0.948,1.422)	18	0.02	0.855 (0.752,0.972)
genus.Gordonibacter.id.821	12	0.29	0.992 (0.978,1.007)	12	0.80	0.984 (0.871,1.112)	12	0.79	1.013 (0.925,1.108)
genus.Haemophilus.id.3698	9	0.57	1.005 (0.988,1.023)	9	0.13	0.883 (0.75,1.038)	9	0.31	0.943 (0.841,1.056)
genus.Holdemanela.id.11393	11	0.32	1.009 (0.991,1.027)	11	0.49	0.948 (0.813,1.105)	11	0.80	1.014 (0.913,1.126)
genus.Holdemania.id.2157	15	0.91	0.999 (0.981,1.018)	15	0.95	0.995 (0.848,1.168)	15	0.58	1.028 (0.933,1.131)
genus.Howardella.id.2000	10	0.74	0.998 (0.985,1.011)	10	0.79	0.977 (0.822,1.161)	10	0.71	0.985 (0.908,1.068)
genus.Hungatella.id.11306	5	0.73	1.003 (0.985,1.022)	5	0.68	1.043 (0.856,1.272)	5	0.31	1.067 (0.942,1.209)
genus.Intestinibacter.id.11345	15	0.74	1.004 (0.981,1.027)	14	0.27	0.887 (0.717,1.098)	15	0.40	0.946 (0.83,1.078)
genus.Intestinimonas.id.2062	17	0.16	0.989 (0.973,1.004)	17	0.36	0.928 (0.791,1.089)	17	0.38	0.955 (0.86,1.06)
genus.Lachnoclostridium.id.11308	13	0.02	1.03 (1.005,1.056)	13	0.46	1.102 (0.852,1.424)	13	0.20	1.107 (0.947,1.293)
genus.Lachnospira.id.2004	6	0.26	1.023 (0.983,1.065)	6	0.73	1.055 (0.782,1.424)	6	0.01	1.315 (1.063,1.628)
genus.LachnospiraceaeFCS020group.id.11314	12	0.50	0.993 (0.974,1.013)	12	0.19	1.141 (0.936,1.391)	12	0.91	1.008 (0.885,1.147)
genus.LachnospiraceaeNC2004group.id.11316	9	0.32	0.992 (0.975,1.008)	9	0.83	1.019 (0.86,1.207)	9	0.19	0.929 (0.833,1.036)
genus.LachnospiraceaeND3007group.id.11317	3	0.81	1.007 (0.953,1.064)	3	0.32	0.713 (0.365,1.394)	3	0.29	1.279 (0.812,2.015)
genus.LachnospiraceaeNK4A136group.id.11319	15	0.30	1.01 (0.991,1.03)	15	0.91	0.987 (0.779,1.249)	15	0.51	1.043 (0.921,1.181)
genus.LachnospiraceaeUCG001.id.11321	13	0.92	0.999 (0.979,1.02)	13	0.25	1.137 (0.913,1.416)	13	0.89	1.009 (0.897,1.133)
genus.LachnospiraceaeUCG004.id.11324	12	0.54	0.993 (0.972,1.015)	12	0.29	1.158 (0.883,1.517)	12	0.98	1.001 (0.871,1.152)
genus.LachnospiraceaeUCG008.id.11328	11	0.16	1.011 (0.995,1.027)	11	0.79	0.979 (0.838,1.144)	11	0.06	0.907 (0.82,1.004)
genus.LachnospiraceaeUCG010.id.11330	10	0.23	1.014 (0.991,1.038)	10	0.06	1.215 (0.99,1.492)	10	0.08	1.132 (0.985,1.3)
genus.Lactobacillus.id.1837	10	0.09	1.021 (0.997,1.047)	10	0.80	0.965 (0.736,1.266)	10	0.33	0.948 (0.851,1.055)
genus.Lactococcus.id.1851	9	0.52	1.005 (0.991,1.019)	9	0.19	1.089 (0.958,1.238)	9	0.52	1.03 (0.94,1.129)
genus.Marvinbryantia.id.2005	10	0.84	0.998 (0.975,1.021)	10	0.27	0.891 (0.724,1.096)	10	0.36	1.068 (0.927,1.229)
genus.Methanobrevibacter.id.123	6	0.33	1.008 (0.992,1.024)	6	0.20	1.105 (0.949,1.287)	6	0.87	1.008 (0.912,1.115)

genus.Odoribacter.id.952	7	0.25	0.983 (0.955,1.012)	7	0.79	1.04 (0.784,1.379)	7	0.44	1.077 (0.891,1.3)
genus.Olsenella.id.822	11	0.78	0.998 (0.984,1.012)	11	0.24	1.071 (0.955,1.2)	11	0.25	1.047 (0.969,1.131)
genus.Oscillibacter.id.2063	14	0.59	0.996 (0.98,1.011)	14	0.82	1.018 (0.872,1.188)	14	0.44	1.043 (0.937,1.162)
genus.Oscillospira.id.2064	8	0.17	1.017 (0.993,1.041)	8	0.28	0.875 (0.685,1.117)	8	0.17	1.111 (0.957,1.289)
genus.Oxalobacter.id.2978	11	0.70	1.003 (0.989,1.017)	11	0.10	1.111 (0.98,1.259)	11	0.79	1.011 (0.932,1.096)
genus.Parabacteroides.id.954	6	0.75	1.006 (0.968,1.047)	6	0.49	0.899 (0.664,1.217)	6	0.88	1.02 (0.791,1.315)
genus.Paraprevotella.id.962	13	0.13	0.988 (0.972,1.004)	13	0.47	0.946 (0.815,1.098)	13	0.57	0.966 (0.855,1.09)
genus.Parasutterella.id.2892	15	0.84	0.998 (0.974,1.021)	15	0.42	0.931 (0.783,1.107)	15	0.26	0.94 (0.845,1.046)
genus.Peptococcus.id.2037	12	0.19	1.011 (0.995,1.028)	12	0.74	0.978 (0.856,1.117)	12	0.20	1.072 (0.965,1.191)
genus.Phascolarctobacterium.id.2168	10	0.19	0.985 (0.964,1.007)	10	0.09	0.833 (0.675,1.028)	10	0.64	1.033 (0.901,1.185)
genus.Preotella7.id.11182	11	0.17	1.01 (0.996,1.024)	11	0.46	1.045 (0.93,1.175)	11	0.68	1.016 (0.94,1.099)
genus.Preotella9.id.11183	15	0.30	1.009 (0.992,1.025)	15	0.90	1.012 (0.849,1.205)	14	0.54	0.965 (0.861,1.081)
genus.RikenellaceaeRC9gutgroup.id.11191	11	0.78	0.998 (0.987,1.01)	11	0.49	0.961 (0.858,1.076)	11	0.44	1.04 (0.941,1.149)
genus.Romboutsia.id.11347	13	0.60	0.995 (0.976,1.014)	13	0.39	1.086 (0.902,1.307)	13	0.30	1.077 (0.936,1.239)
genus.Roseburia.id.2012	14	0.63	1.007 (0.979,1.035)	14	0.33	1.12 (0.891,1.408)	14	0.81	0.981 (0.835,1.151)
genus.Ruminiclostridium5.id.11355	11	0.36	1.013 (0.986,1.04)	11	0.39	0.893 (0.688,1.158)	11	0.77	1.025 (0.867,1.21)
genus.Ruminiclostridium6.id.11356	16	0.01	1.025 (1.006,1.045)	16	0.75	0.973 (0.823,1.151)	16	0.42	1.049 (0.935,1.176)
genus.Ruminiclostridium9.id.11357	9	0.03	0.969 (0.943,0.996)	9	0.92	1.015 (0.754,1.367)	9	0.88	0.981 (0.77,1.251)
genus.RuminococcaceaeNK4A214group.id.11358	13	0.27	0.988 (0.966,1.01)	13	0.46	1.085 (0.873,1.348)	13	0.54	0.956 (0.826,1.106)
genus.RuminococcaceaeUCG002.id.11360	22	0.57	1.005 (0.988,1.022)	22	0.21	1.128 (0.933,1.364)	22	0.95	0.996 (0.893,1.112)
genus.RuminococcaceaeUCG003.id.11361	12	0.49	1.009 (0.984,1.034)	12	0.54	1.064 (0.873,1.298)	12	0.23	0.92 (0.803,1.053)
genus.RuminococcaceaeUCG004.id.11362	11	0.67	1.005 (0.983,1.027)	11	0.80	0.967 (0.751,1.246)	11	0.00	1.245 (1.103,1.405)
genus.RuminococcaceaeUCG005.id.11363	14	0.87	0.998 (0.974,1.022)	14	0.68	0.957 (0.781,1.174)	14	0.15	0.909 (0.798,1.035)
genus.RuminococcaceaeUCG009.id.11366	12	0.98	1 (0.978,1.022)	12	0.34	0.925 (0.787,1.086)	12	0.57	0.97 (0.873,1.078)
genus.RuminococcaceaeUCG010.id.11367	6	0.91	1.002 (0.96,1.047)	6	0.28	0.847 (0.629,1.141)	6	0.06	1.198 (0.992,1.446)
genus.RuminococcaceaeUCG011.id.11368	8	0.38	0.993 (0.977,1.009)	8	0.94	0.995 (0.878,1.128)	8	0.36	1.041 (0.955,1.135)
genus.RuminococcaceaeUCG013.id.11370	12	0.28	1.012 (0.99,1.035)	12	0.28	1.127 (0.906,1.403)	12	0.15	1.113 (0.963,1.287)
genus.RuminococcaceaeUCG014.id.11371	11	0.11	0.982 (0.961,1.004)	11	0.33	0.875 (0.668,1.145)	11	0.65	1.044 (0.864,1.262)
genus.Ruminococcus1.id.11373	10	0.25	0.985 (0.96,1.011)	10	0.68	0.949 (0.738,1.221)	10	0.67	1.042 (0.86,1.264)
genus.Ruminococcus2.id.11374	15	0.49	1.008 (0.986,1.031)	15	0.29	1.112 (0.914,1.353)	15	0.59	0.966 (0.851,1.096)
genus.Sellimonas.id.14369	9	0.23	0.991 (0.976,1.006)	9	0.60	0.958 (0.818,1.123)	9	0.47	1.029 (0.952,1.113)
genus.Senegalimassilia.id.11160	5	0.18	1.018 (0.992,1.044)	5	0.08	1.315 (0.971,1.78)	5	0.50	1.078 (0.865,1.343)

genus.Slackia.id.825	6	0.21	1.014 (0.992,1.036)	6	0.77	1.028 (0.856,1.233)	6	0.91	1.01 (0.843,1.21)
genus.Streptococcus.id.1853	15	0.76	0.996 (0.972,1.021)	15	0.14	0.859 (0.701,1.052)	15	0.79	1.019 (0.89,1.165)
genus.Subdoligranulum.id.2070	11	0.57	1.009 (0.977,1.043)	11	0.78	0.963 (0.737,1.258)	11	0.95	0.995 (0.849,1.166)
genus.Sutterella.id.2896	12	0.27	1.013 (0.99,1.037)	12	0.98	1.003 (0.815,1.234)	12	0.69	1.032 (0.884,1.204)
genus.Terrisporobacter.id.11348	5	0.56	1.008 (0.982,1.035)	5	0.29	1.148 (0.888,1.484)	5	0.71	0.974 (0.845,1.123)
genus.Turicibacter.id.2162	10	0.66	1.004 (0.985,1.024)	10	0.37	0.912 (0.748,1.113)	10	0.67	1.037 (0.879,1.223)
genus.Tyzzereila3.id.11335	13	0.17	0.991 (0.979,1.004)	13	0.88	1.011 (0.883,1.158)	13	0.12	1.066 (0.983,1.157)
genus.Veillonella.id.2198	8	0.70	0.995 (0.969,1.021)	8	0.52	1.093 (0.832,1.436)	8	0.90	1.01 (0.872,1.17)
genus.Victivallis.id.2256	10	0.25	1.007 (0.995,1.019)	10	0.70	0.975 (0.855,1.111)	10	0.60	1.021 (0.946,1.101)

Supplementary Table 5. Odds ratio for association of genetically predicted gut microbiota with neurodegenerative diseases using the method of Inverse variance weighted (IVW).

Exposure	Outcome: Alzheimer's disease			Outcome: Parkinson's disease			Outcome: Amyotrophic lateral sclerosis		
	Number of SNPs	p	OR (95%CI)	Number of SNPs	p	OR (95%CI)	Number of SNPs	p	OR (95%CI)
2-aminobutyrate	41	0.22	0.951 (0.878,1.031)	41	0.74	0.891 (0.455,1.745)	40	0.76	1.074 (0.68,1.699)
3- (3-hydroxyphenyl) propionate	11	0.26	1.012 (0.991,1.033)	11	0.93	1.01 (0.819,1.245)	9	0.70	0.974 (0.85,1.116)
3- (4-hydroxyphenyl) lactate	22	0.74	0.988 (0.916,1.065)	22	0.78	0.91 (0.463,1.79)	22	0.25	1.282 (0.843,1.95)
3-hydroxybutyrate	10	0.46	0.992 (0.971,1.013)	10	0.64	1.051 (0.854,1.295)	10	0.43	1.061 (0.916,1.228)
3-hydroxyglutarate	13	0.75	0.99 (0.929,1.055)	13	0.40	0.74 (0.37,1.48)	13	0.35	1.219 (0.807,1.841)
3-indoxyl sulfate	5	0.68	1.021 (0.925,1.128)	5	0.89	0.953 (0.472,1.924)	5	0.78	1.101 (0.562,2.157)
3-methoxytyrosine	16	0.99	1 (0.928,1.078)	15	0.21	1.821 (0.707,4.687)	16	0.64	1.117 (0.705,1.768)
4-hydroxyhippurate	8	0.62	0.989 (0.947,1.033)	8	0.78	1.084 (0.61,1.925)	8	0.50	1.1 (0.832,1.454)
7-Hoca	15	0.93	1.006 (0.894,1.131)	15	0.15	0.475 (0.172,1.314)	15	0.76	1.105 (0.585,2.086)
acetylcarnitine	18	0.32	0.965 (0.899,1.036)	18	0.83	0.906 (0.376,2.183)	18	0.63	1.11 (0.721,1.709)
adrenate	11	0.90	1.004 (0.944,1.068)	11	0.19	0.609 (0.29,1.279)	11	0.11	1.517 (0.914,2.519)
alanine	37	0.44	1.033 (0.951,1.123)	37	0.31	0.626 (0.252,1.558)	37	0.59	0.863 (0.503,1.48)
allantoin	19	0.25	0.977 (0.939,1.017)	19	0.34	0.832 (0.569,1.217)	19	0.53	0.921 (0.713,1.19)
arabinose	5	0.47	1.029 (0.952,1.112)	4	0.04	2.143 (1.026,4.476)	5	0.54	1.085 (0.838,1.406)
arginine	21	0.63	1.022 (0.933,1.12)	21	0.12	0.562 (0.271,1.168)	21	0.52	0.852 (0.525,1.383)
asparagine	41	0.75	0.99 (0.933,1.051)	41	0.70	0.854 (0.384,1.898)	38	0.55	0.876 (0.568,1.352)
aspartate	4	0.94	0.995 (0.866,1.143)	4	0.74	1.175 (0.455,3.035)	4	0.35	0.747 (0.405,1.378)
benzoate	37	0.99	1.001 (0.921,1.087)	37	0.65	1.207 (0.535,2.722)	37	0.45	1.224 (0.728,2.058)
beta-hydroxyisovalerate	23	0.86	0.994 (0.935,1.058)	23	0.42	0.726 (0.332,1.588)	23	0.25	0.793 (0.534,1.176)
betaine	23	0.17	1.054 (0.978,1.137)	23	0.45	0.783 (0.415,1.48)	23	0.84	1.045 (0.675,1.619)
carnitine	161	0.34	1.034 (0.965,1.109)	161	0.62	0.833 (0.407,1.702)	159	0.60	1.126 (0.724,1.752)
cholate	9	0.20	1.016 (0.991,1.042)	9	0.57	1.068 (0.85,1.341)	9	0.60	1.042 (0.892,1.217)
cholesterol	44	0.28	1.048 (0.963,1.141)	44	0.29	0.687 (0.34,1.385)	44	0.55	0.856 (0.512,1.431)
choline	24	0.25	0.92 (0.798,1.059)	23	0.41	0.526 (0.116,2.39)	24	0.84	1.11 (0.403,3.055)
citrate	42	0.45	1.031 (0.953,1.116)	41	0.72	0.855 (0.362,2.023)	42	0.16	0.689 (0.408,1.163)
creatine	8	0.80	1.008 (0.949,1.071)	8	0.80	1.069 (0.642,1.778)	8	0.86	1.033 (0.716,1.49)
creatinine	26	0.47	1.047 (0.926,1.182)	26	0.64	1.334 (0.402,4.423)	26	0.57	1.258 (0.575,2.755)

cysteine	18	0.79	1.008 (0.95,1.07)	18	0.32	0.736 (0.403,1.345)	17	0.98	0.995 (0.653,1.514)
deoxycholate	17	0.49	1.018 (0.968,1.07)	17	0.85	1.026 (0.781,1.348)	17	0.17	1.152 (0.942,1.408)
dimethylarginine	32	0.50	1.039 (0.929,1.161)	32	0.44	1.487 (0.54,4.101)	32	0.05	1.826 (1.003,3.321)
erythritol	24	0.23	1.035 (0.979,1.094)	24	0.69	0.891 (0.508,1.562)	24	0.09	1.289 (0.963,1.725)
glucose	37	0.61	1.024 (0.934,1.122)	37	0.09	0.442 (0.172,1.141)	37	0.97	1.012 (0.595,1.719)
glutamate	3	0.42	1.061 (0.918,1.228)	3	0.81	1.184 (0.308,4.554)	3	0.96	0.96 (0.228,4.043)
glutamine	8	0.02	0.803 (0.667,0.968)	8	0.79	1.568 (0.053,46.405)	8	0.98	0.976 (0.192,4.969)
glycerate	16	0.40	0.96 (0.872,1.056)	16	0.14	0.501 (0.198,1.269)	16	0.75	1.161 (0.466,2.897)
glycine	25	0.53	0.985 (0.938,1.033)	25	0.64	1.107 (0.723,1.694)	25	0.57	1.088 (0.811,1.459)
glycochenodeoxycholate	14	0.63	1.007 (0.98,1.034)	14	0.66	0.921 (0.64,1.324)	13	0.53	0.939 (0.771,1.143)
glycocholate	9	0.79	1.004 (0.976,1.033)	9	0.98	1.004 (0.759,1.328)	9	0.22	1.126 (0.932,1.361)
glycodeoxycholate	7	0.73	0.996 (0.974,1.018)	7	0.59	0.931 (0.72,1.204)	7	0.24	1.09 (0.944,1.259)
hippurate	14	0.73	1.01 (0.953,1.071)	14	0.88	0.97 (0.655,1.435)	14	0.00	1.531 (1.142,2.051)
histidine	7	0.84	0.978 (0.788,1.212)	7	0.77	1.487 (0.104,21.278)	6	0.30	2.298 (0.479,11.018)
hydrocinnamate	14	0.61	0.986 (0.935,1.041)	14	0.04	1.674 (1.033,2.712)	14	0.18	0.83 (0.631,1.093)
hyodeoxycholate	16	0.98	1 (0.976,1.024)	16	0.73	1.057 (0.776,1.44)	15	0.39	0.932 (0.791,1.096)
indoleacetate	21	0.96	0.998 (0.935,1.065)	21	0.24	0.704 (0.393,1.26)	21	0.69	1.086 (0.728,1.619)
indolelactate	17	0.71	1.013 (0.947,1.083)	17	0.99	1.005 (0.505,2)	17	0.57	0.878 (0.557,1.383)
indolepropionate	16	0.08	1.04 (0.995,1.088)	16	0.50	1.158 (0.756,1.773)	15	0.22	0.814 (0.586,1.131)
isoleucine	10	0.77	0.998 (0.983,1.012)	10	0.00	0.791 (0.678,0.923)	10	0.14	1.072 (0.976,1.177)
Ketoleucine	14	0.17	1.074 (0.97,1.189)	14	0.64	1.284 (0.447,3.684)	14	0.72	0.878 (0.434,1.778)
kynurenine	36	0.56	1.031 (0.931,1.142)	36	0.92	0.962 (0.45,2.055)	36	0.02	1.756 (1.113,2.769)
lactate	13	0.33	0.949 (0.854,1.054)	13	0.22	0.389 (0.085,1.783)	13	0.96	1.023 (0.418,2.504)
leucine	159	0.18	0.944 (0.867,1.027)	158	0.96	0.983 (0.465,2.078)	158	0.93	1.023 (0.634,1.65)
lysine	22	0.82	1.015 (0.891,1.156)	22	0.71	0.795 (0.236,2.678)	22	0.99	1.008 (0.361,2.81)
malate	17	0.78	1.013 (0.927,1.107)	17	0.73	0.88 (0.422,1.835)	17	0.28	1.308 (0.805,2.125)
mannitol	12	0.01	0.969 (0.946,0.992)	12	0.94	1.01 (0.785,1.3)	12	0.07	0.866 (0.743,1.011)
methionine	21	0.19	0.899 (0.768,1.053)	21	0.93	0.923 (0.153,5.561)	21	0.17	0.444 (0.137,1.433)
N- (3-furoyl)glycine	22	0.77	1.002 (0.99,1.014)	22	0.32	1.06 (0.944,1.191)	22	0.57	1.022 (0.947,1.104)
ornithine	9	0.90	0.992 (0.878,1.12)	9	1.00	0.999 (0.22,4.54)	9	0.22	0.628 (0.298,1.321)
p-cresol sulfate	15	0.67	0.993 (0.963,1.024)	15	0.46	0.868 (0.595,1.265)	15	0.23	0.88 (0.714,1.084)
phenylacetate	8	0.02	1.064 (1.008,1.124)	8	0.79	0.892 (0.383,2.078)	8	0.11	1.353 (0.931,1.966)

phenylacetylglutamine	18	0.48	0.986 (0.948,1.025)	18	0.07	0.692 (0.468,1.024)	18	0.61	1.066 (0.83,1.37)
phenylalanine	5	0.08	1.245 (0.972,1.595)	5	0.17	7.14 (0.439,116.242)	5	0.05	5.636 (0.98,32.411)
phenyllactate	18	0.16	1.05 (0.981,1.125)	18	0.34	0.722 (0.371,1.405)	18	0.84	0.954 (0.6,1.515)
pipecolate	15	0.50	1.018 (0.967,1.071)	15	0.12	1.67 (0.88,3.172)	15	0.93	0.978 (0.605,1.58)
proline	35	0.97	1.001 (0.937,1.07)	35	0.62	0.869 (0.494,1.528)	34	0.67	1.094 (0.726,1.649)
pyruvate	14	0.86	1.007 (0.926,1.096)	14	0.68	1.123 (0.649,1.945)	14	0.78	1.057 (0.715,1.563)
salicylate	18	0.64	0.999 (0.993,1.004)	18	0.08	1.061 (0.994,1.132)	18	0.49	0.986 (0.946,1.027)
salicylurate	13	0.30	0.995 (0.985,1.005)	13	0.53	1.029 (0.942,1.123)	13	0.48	0.978 (0.921,1.04)
serine	32	0.59	1.022 (0.944,1.106)	31	0.06	1.906 (0.971,3.743)	32	0.51	0.858 (0.542,1.357)
serotonin	15	0.81	1.007 (0.951,1.067)	15	0.04	0.535 (0.292,0.979)	15	0.28	0.806 (0.544,1.195)
stachydrine	7	0.53	0.99 (0.961,1.021)	7	0.28	0.859 (0.653,1.129)	7	0.58	0.953 (0.806,1.128)
taurochenodeoxycholate	13	0.31	1.014 (0.987,1.042)	13	0.98	1.005 (0.723,1.397)	13	0.16	1.141 (0.95,1.37)
taurocholate	17	0.52	0.995 (0.98,1.011)	17	0.43	1.081 (0.89,1.314)	17	0.36	1.053 (0.943,1.175)
taurodeoxycholate	13	0.27	0.987 (0.965,1.01)	13	0.57	1.073 (0.845,1.362)	13	0.05	1.16 (1,1.345)
tauroolithocholate 3-sulfate	10	0.67	0.99 (0.946,1.036)	10	0.99	0.999 (0.721,1.385)	10	0.97	0.995 (0.798,1.241)
threonate	18	0.74	1.007 (0.967,1.049)	18	0.28	0.755 (0.453,1.257)	18	0.88	0.974 (0.7,1.357)
trans-4-hydroxyproline	6	0.92	0.996 (0.911,1.088)	6	0.40	1.54 (0.567,4.184)	6	0.30	1.517 (0.693,3.32)
tryptophan	151	0.66	1.019 (0.936,1.109)	151	0.24	0.626 (0.286,1.371)	150	0.73	1.091 (0.666,1.789)
tyrosine	31	0.88	1.01 (0.889,1.147)	31	0.62	0.763 (0.263,2.214)	31	0.69	0.866 (0.43,1.745)
ursodeoxycholate	11	0.11	1.022 (0.995,1.05)	11	0.49	1.115 (0.821,1.515)	11	0.23	1.128 (0.926,1.375)
valerate	10	0.39	0.963 (0.884,1.049)	10	0.58	1.309 (0.5,3.427)	10	0.77	1.094 (0.605,1.979)
valine	6	0.79	1.035 (0.808,1.325)	5	0.78	0.636 (0.025,16.365)	6	0.50	1.511 (0.452,5.057)

Supplementary Table 6. Power analysis for the associations between genetically predicted gut microbiota, gut microbiota-dependent metabolites and Alzheimer’s disease (AD), Parkinson’s disease (PD) as well as amyotrophic lateral sclerosis (ALS).

Exposure	Outcome	Number of cases	Number of controls	OR=0.6	OR=0.7	OR=0.8	OR=0.9	OR=1.1	OR=1.2	OR=1.3	OR=1.4	OR=1.5	OR=1.6	OR=1.7	OR=1.8
Gut microbiota	AD	17,008	37,154	1.00	1.00	0.85	0.31	0.28	0.76	0.97	1	1	1	1	1
	PD	37,688	141,779	1.00	0.98	0.73	0.24	0.23	0.66	0.94	1	1	1	1	1
	ALS	20,806	59,804	1.00	0.99	0.80	0.28	0.25	0.72	0.96	1	1	1	1	1
Gut microbiota-dependent metabolites	AD	17,008	37,154	0.99	0.90	0.54	0.17	0.15	0.44	0.76	0.93	0.99	1	1	1
	PD	37,688	141,779	0.96	0.78	0.42	0.14	0.13	0.37	0.67	0.88	0.97	1	1	1
	ALS	20,806	59,804	0.98	0.84	0.48	0.15	0.14	0.41	0.72	0.91	0.98	1	1	1

Supplementary Table 7. Tests for detecting horizontal and directional pleiotropy.

Exposure	Outcome	MR-PRESSO Global test		MR-PRESSO Main test		MR-Egger intercept pEgger			Cochran's Q test		
		MR-PRESSO RSSObs	PrSS	Uncorrected p	Corrected p	Egger-intercept	Standard Error	PEgger	IVW (p)	MR-Egger (p)	
Gut microbiota	class.Actinobacteria.id.419	AD	21.886	0.350	0.010	NA	-0.004	0.002	0.071	0.279	0.469
	family.Lactobacillaceae.id.1836	AD	15.332	0.351	0.025	NA	0.005	0.003	0.133	0.167	0.311
	genus.Faecalibacterium.id.2057	AD	17.432	0.253	0.207	NA	0.000	0.002	0.853	0.576	0.478
	genus.Ruminiclostridium6.id.11356	AD	20.917	0.325	0.039	NA	0.002	0.002	0.369	0.368	0.360
	genus.Ruminiclostridium9.id.11357	AD	14.257	0.586	0.015	NA	0.001	0.004	0.879	0.496	0.392
	genus.Lachnoclostridium.id.11308	AD	15.776	0.494	0.014	NA	0.000	0.003	0.982	0.355	0.281
	phylum.Lentisphaerae.id.2238	PD	16.227	0.203	0.230	NA	0.025	0.039	0.547	0.614	0.552
	class.Lentisphaeria.id.2250	PD	15.700	0.193	0.352	NA	0.021	0.039	0.607	0.530	0.447
	family.Oxalobacteraceae.id.2966	PD	8.748	0.917	0.007	NA	-0.032	0.035	0.379	0.936	0.942
	order.Victivallales.id.2254	PD	15.700	0.196	0.352	NA	0.021	0.039	0.607	0.530	0.447
	order.Bacillales.id.1674	PD	11.170	0.552	0.062	NA	0.001	0.045	0.976	0.451	0.349
	genus..Eubacteriumhalliigroup.id.11338	PD	15.288	0.556	0.016	NA	-0.005	0.014	0.732	0.568	0.502
	genus.Anaerostipes.id.1991	PD	8.995	0.914	0.011	NA	0.017	0.027	0.533	0.858	0.900
	genus.Clostridiumsensustricto1.id.1873	PD	4.620	0.896	0.004	NA	-0.029	0.029	0.368	0.084	0.057
	genus.RuminococcaceaeUCG004.id.11362	ALS	13.188	0.474	0.004	NA	0.042	0.028	0.162	0.395	0.513
	genus.Lachnospira.id.2004	ALS	5.281	0.736	0.016	NA	-0.039	0.039	0.367	0.562	0.578
	genus.Fusicatenibacter.id.11305	ALS is	18.804	0.522	0.020	NA	0.014	0.017	0.443	0.459	0.433
	genus.Catenibacterium.id.2153	ALS	9.791	0.250	0.075	NA	0.043	0.093	0.675	0.172	0.113
genus..Ruminococcusgnavusgroup.id.14376	ALS	17.369	0.201	0.049	NA	-0.004	0.029	0.880	0.194	0.143	
Gut metabolites	mannitol	AD	14.254	0.384	0.024	NA	0.001	0.002	0.779	0.371	0.298
	glutamine	AD	9.198	0.465	0.054	NA	0.003	0.002	0.114	0.442	0.748
	phenylacetate	AD	3.764	0.951	0.008	NA	0.001	0.002	0.588	0.849	0.803
	isoleucine	PD	12.773	0.458	0.015	NA	-0.012	0.014	0.424	0.317	0.296
	hydrocinnamate	PD	19.091	0.307	0.073	NA	-0.012	0.016	0.443	0.251	0.232
	serotonin	PD	17.189	0.411	0.062	NA	-0.006	0.015	0.710	0.361	0.302
	arabinose	PD	1.630	0.829	0.053	NA	0.004	0.033	0.906	0.735	0.533
	hippurate	ALS	19.903	0.231	0.014	NA	0.010	0.013	0.447	0.187	0.173
	kynurenine	ALS	45.709	0.152	0.021	NA	-0.002	0.006	0.794	0.172	0.146
	dimethylarginine	ALS	36.410	0.389	0.131	NA	0.002	0.009	0.833	0.592	0.543
	taurodeoxycholate	ALS	14.028	0.455	0.073	NA	0.002	0.017	0.923	0.442	0.361

Results of the MR-PRESSO global and MR-Egger-intercept tests for detecting horizontal and directional pleiotropy in the univariable Mendelian randomization setting; significance thresholds, $\alpha = 0.01$

for testing particular Q statistics and $\alpha = 0.05$ for the PRESSO global test; * $p < 0.05$ in MR-PRESSO global test.

MR-PRESSO, Mendelian Randomization Pleiotropy RESidual Sum and Outlier; RSSObs, observed residual sum of squares.

Supplementary Table 8. Genetic instruments for multivariable MR analyses.

SNP	Exposure				Outcome			
	Victivallales		Lentisphaerae		Lentisphaeria		Parkinson's disease	
	Beta	SE	Beta	SE	Beta	SE	Beta	SE
rs1002941	0.105	0.105	0.108	0.023	0.023	0.023	-0.029	0.025
rs11770843	0.109	0.109	0.112	0.023	0.023	0.023	-0.033	0.025
rs17114848	0.152	0.152	0.149	0.032	0.032	0.032	0.020	0.036
rs2031282	0.122	0.122	0.120	0.027	0.027	0.027	0.011	0.037
rs2731834	0.109	0.109	0.110	0.024	0.024	0.024	0.027	0.023
rs2825714	-0.137	-0.137	-0.138	0.029	0.029	0.029	-0.018	0.034
rs62570196	-0.216	-0.216	-0.217	0.044	0.044	0.044	0.065	0.043
rs72640280	0.220	0.220	0.220	0.049	0.049	0.049	-0.029	0.040
rs73113483	-0.131	-0.131	-0.132	0.029	0.029	0.029	-0.046	0.034
rs77599476	0.230	0.230	0.230	0.048	0.048	0.048	-0.087	0.043

Supplementary Table 9. Multivariable MR results.

	IVW			
	Beta	SE	95% CI	p
Victivallales	6.877	6.557	-5.974, 19.729	0.294
Lentisphaeria	-6.937	6.537	-19.750, 5.875	0.289
Lentisphaerae	6.877	6.557	-5.974, 19.729	0.294
MR-Egger intercept	0.089	0.038	-0.005, 0.183	0.053

Multivariable MR results for Victivallales, Lentisphaerae, and Lentisphaeria on Parkinson's disease using IVW and MR-Egger method; Beta, MR coefficient; SE, standard error of MR coefficient; p, corresponding p-value

Residual standard error = 1.175

Heterogeneity test statistic = 9.6587 on 7 degrees of freedom, p = 0.2088

Supplementary Table 10. MR results of causal links between gut microbiota and neurodegenerative diseases ($p < 5 \times 10^{-8}$).

Outcome	Level	Exposure	Method	Number of SNPs	p	OR (95%CI)
Alzheimer's disease	Phylum	Actinobacteria	Wald ratio	1	0.005	1.073 (1.022,1.127)
Alzheimer's disease	Class	Actinobacteria	Wald ratio	1	0.003	1.061 (1.02,1.102)
Alzheimer's disease	Order	Bifidobacteriales	Inverse variance weighted	2	0.003	1.055 (1.018,1.093)
Alzheimer's disease	Family	Bifidobacteriaceae	Inverse variance weighted	2	0.003	1.055 (1.018,1.093)
Alzheimer's disease	Genus	Ruminococcustorquesgroup	Wald ratio	1	0.000	0.871 (0.813,0.935)
Alzheimer's disease	Genus	Bifidobacterium	Inverse variance weighted	2	0.003	1.054 (1.017,1.091)
Alzheimer's disease	Genus	Allisonella	Wald ratio	1	0.035	0.968 (0.939,0.998)
Parkinson's disease	Class	Actinobacteria	Wald ratio	1	0.035	0.684 (0.481,0.974)
Parkinson's disease	Family	Streptococcaceae	Wald ratio	1	0.038	1.745 (1.032,2.951)
Parkinson's disease	Genus	Streptococcus	Wald ratio	1	0.038	1.697 (1.03,2.794)
Amyotrophic lateral sclerosis	Order	Gastranaerophilales	Wald ratio	1	0.001	0.64 (0.492,0.832)
Amyotrophic lateral sclerosis	Family	Streptococcaceae	Wald ratio	1	0.030	1.597 (1.047,2.435)
Amyotrophic lateral sclerosis	Genus	Streptococcus	Wald ratio	1	0.030	1.559 (1.045,2.328)

Supplementary Table 11. MR results of causal links between gut microbiota-derived metabolites and neurodegenerative diseases ($p < 5 \times 10^{-8}$).

Outcome	Exposure	Method	Number of SNPs	p	OR (95%CI)
Alzheimer's disease	Malate	Wald ratio	1	0.002	0.657 (0.502,0.861)
Alzheimer's disease	Proline	Inverse variance weighted	3	0.014	0.892 (0.814,0.977)
Alzheimer's disease	Indoleacetate	Inverse variance weighted	2	0.016	1.297 (1.049,1.604)
Alzheimer's disease	Glutamine	Wald ratio	1	0.037	0.674 (0.466,0.976)
Alzheimer's disease	3- (4-hydroxyphenyl) lactate	Wald ratio	1	0.039	0.787 (0.627,0.988)
Parkinson's disease	Asparagine	Inverse variance weighted	2	0.003	10.976 (2.307,52.213)
Parkinson's disease	3- (4-hydroxyphenyl) lactate	Wald ratio	1	0.036	0.151 (0.026,0.885)