

Original article:

Identifying environmental risk factors for inflammatory bowel diseases: A Mendelian randomization study.

Robert Carreras-Torres^{1,2,3,*}, Gemma Ibáñez-Sanz^{2,3}, Mireia Obón-Santacana^{1,2,3}, Eric J. Duell^{1,2}, Victor Moreno^{1,2,3,4}.

¹*Colorectal Cancer Group, ONCOBELL Program, Bellvitge Biomedical Research Institute (IDIBELL). Hospitalet de Llobregat, Barcelona, Spain.*

²*Unit of Biomarkers and Susceptibility, Oncology Data Analytics Program, Catalan Institute of Oncology (ICO). Hospitalet de Llobregat, Barcelona, Spain.*

³*Consortium for Biomedical Research in Epidemiology and Public Health (CIBERESP), Spain.*

⁴*Department of Clinical Sciences, Faculty of Medicine, University of Barcelona, Barcelona, Spain.*

Running Head: Causality appraisal of risk factors for IBD risk

Keywords: IBD, Crohn's disease; ulcerative colitis, risk factors, two-sample Mendelian randomization

***Corresponding author:**

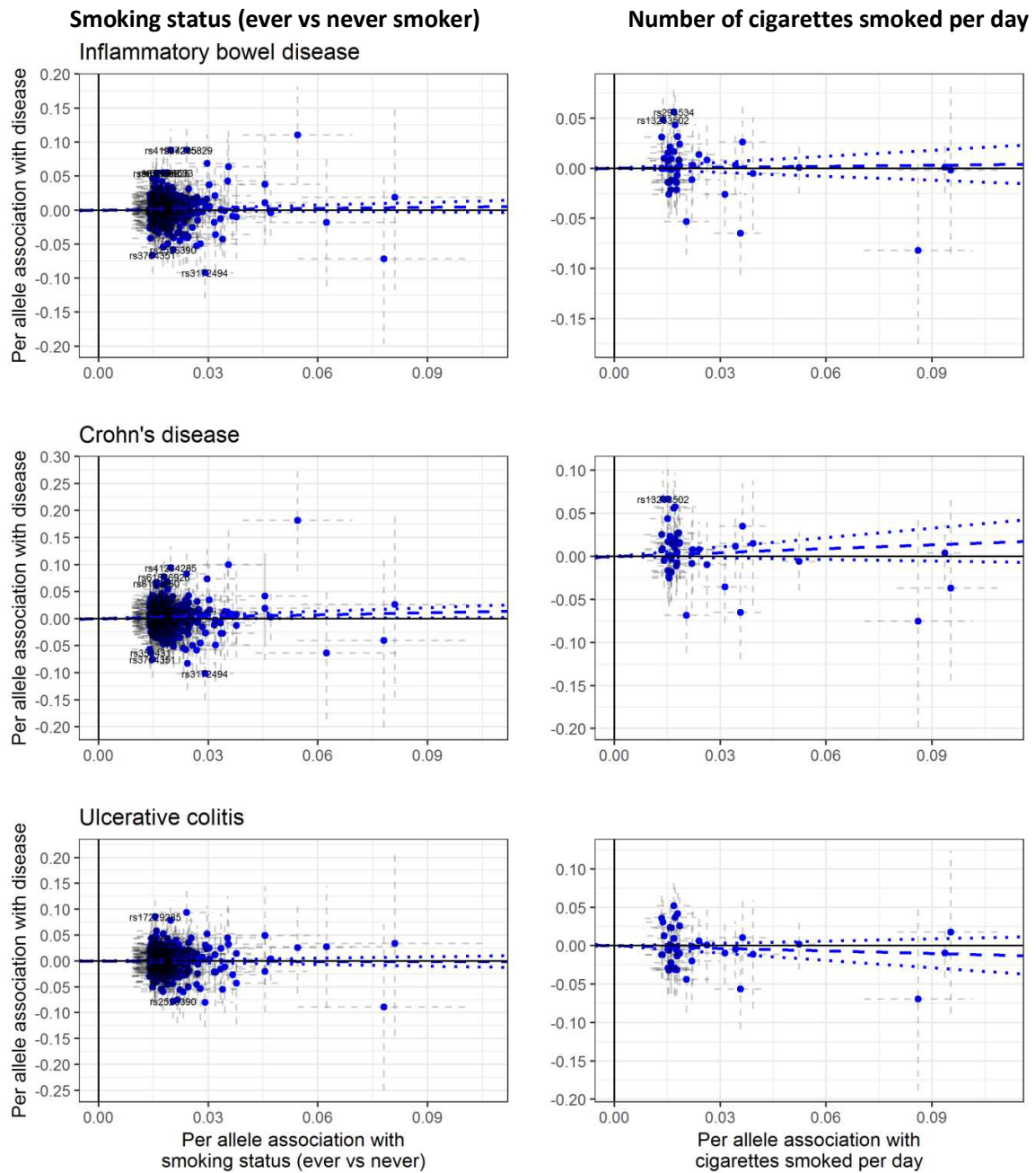
Robert Carreras-Torres,
Bellvitge Biomedical Research Institute,
Avinguda de la Granvia de l'Hospitalet, 199, 08908, L'Hospitalet de Llobregat, Barcelona,
Spain.

Tel.: +34 932 603 786;

email: rcarrerastorres@gmail.com

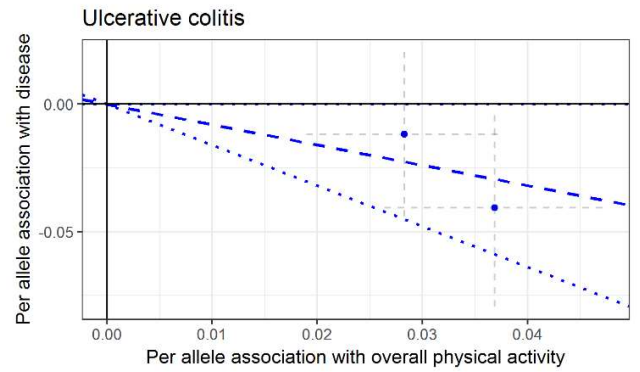
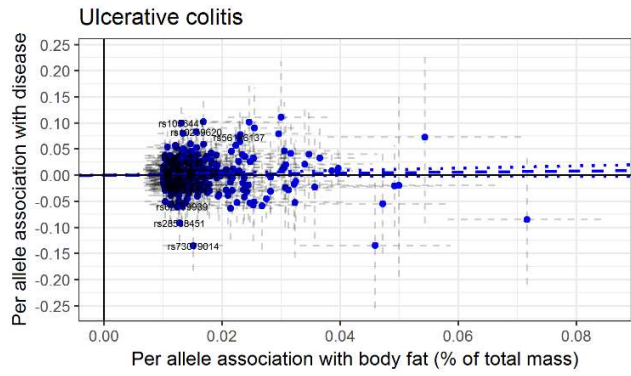
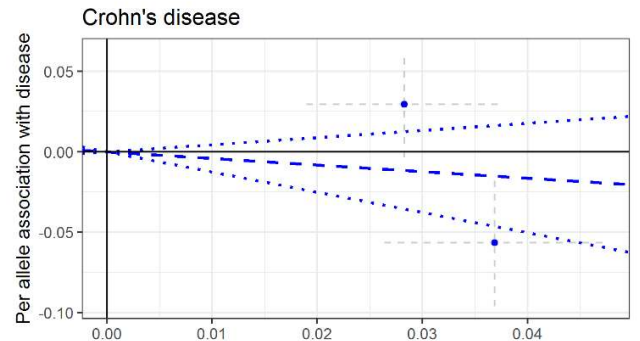
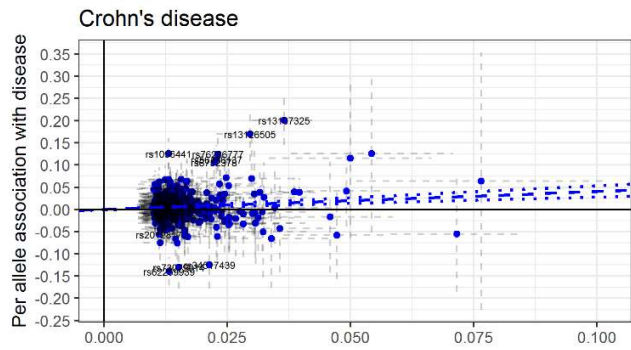
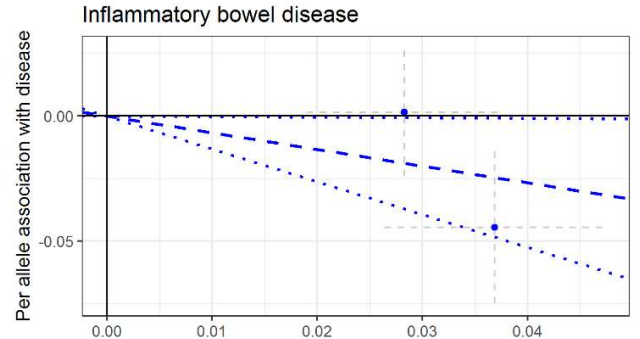
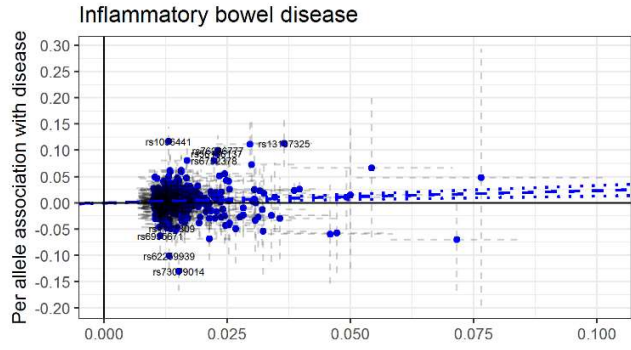
Figure S1 – Scatter plots of summary statistics for genetic association on potential risk exposures and inflammatory bowel diseases.

Lifestyle exposure

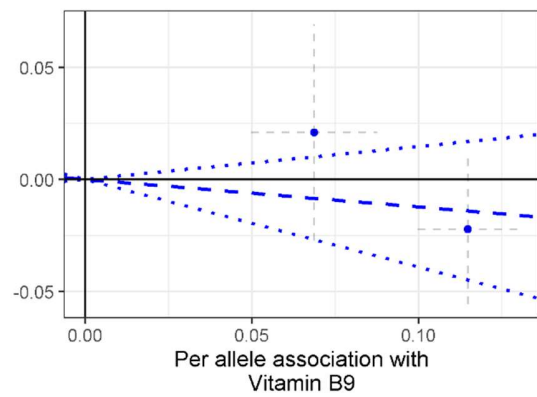
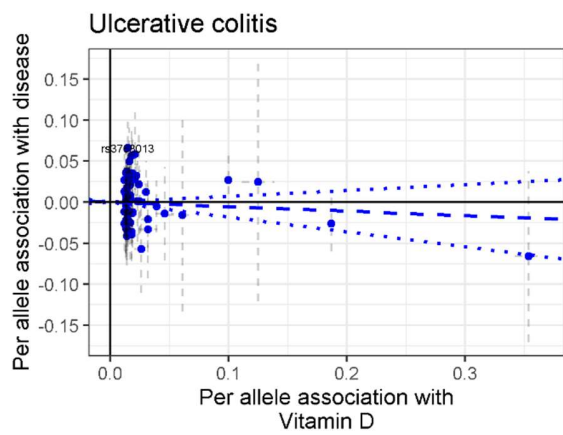
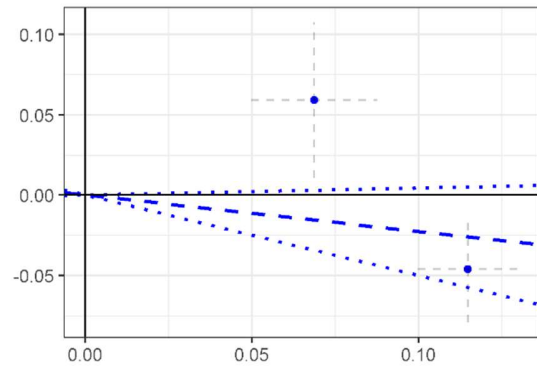
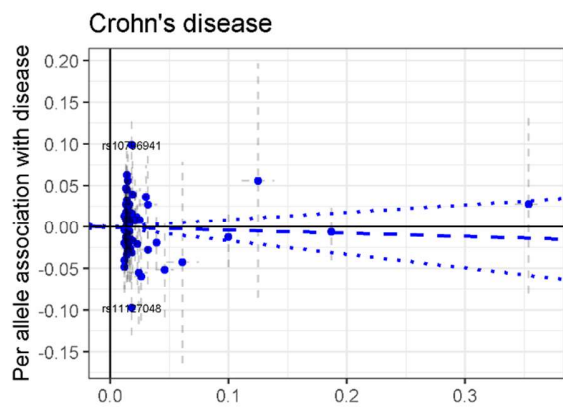
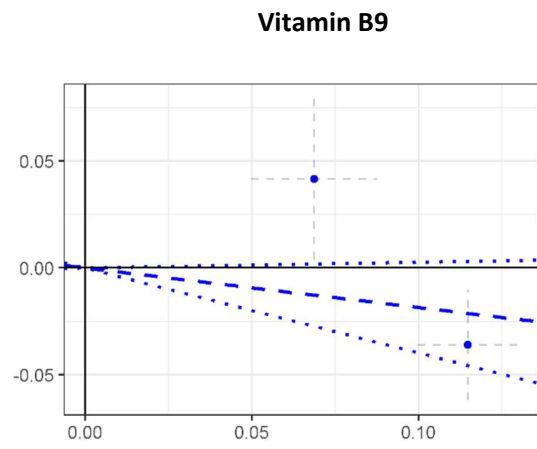
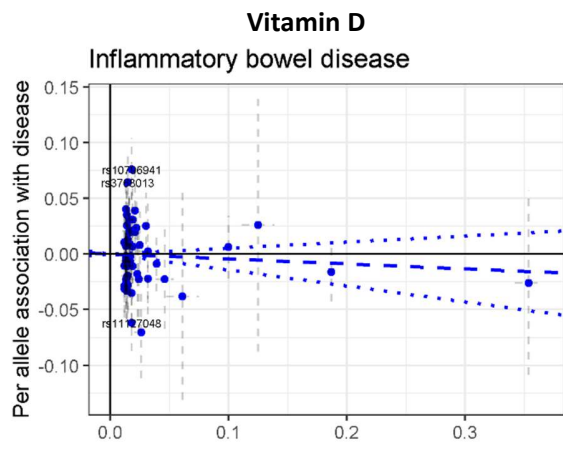


Body fat percentage

Physical activity

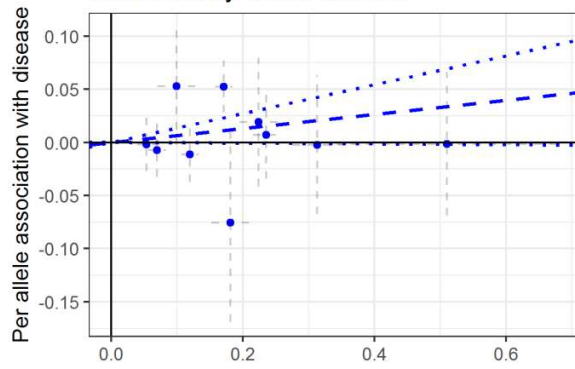


Nutrient exposures

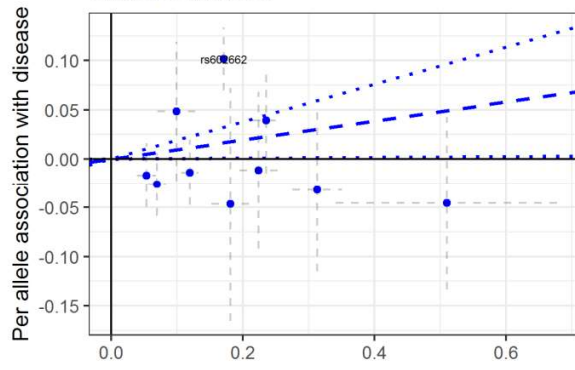


Vitamin B12

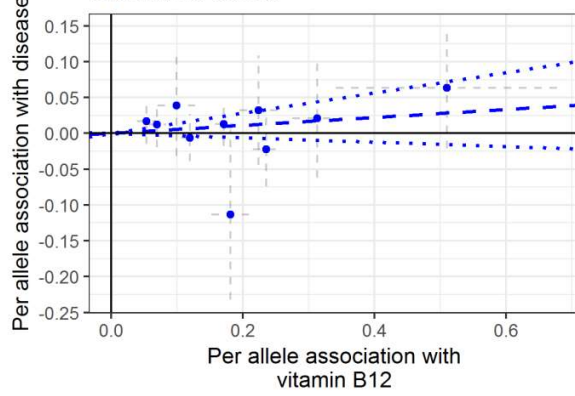
Inflammatory bowel disease



Crohn's disease

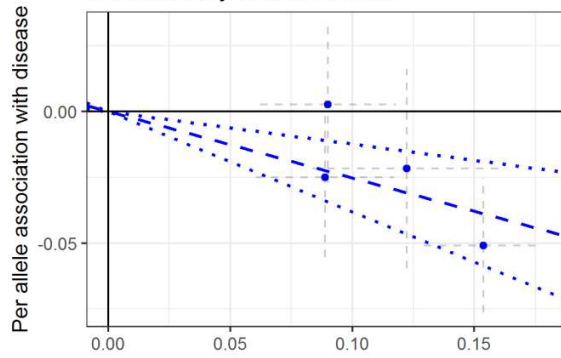


Ulcerative colitis

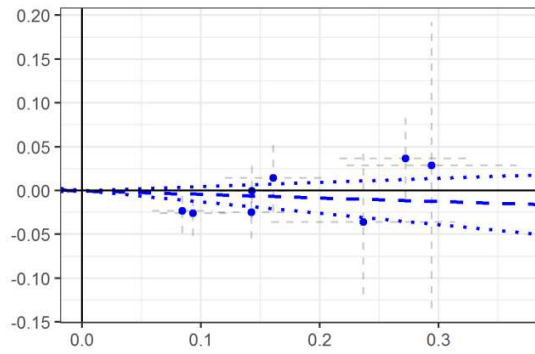


Omega-3 fatty acids

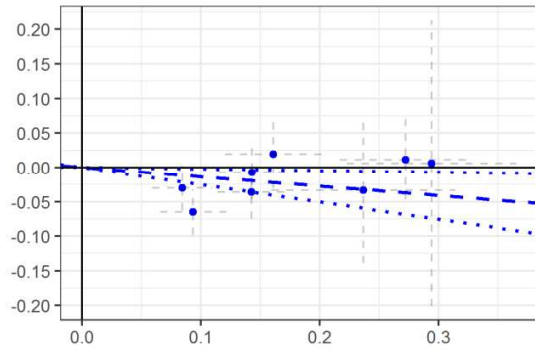
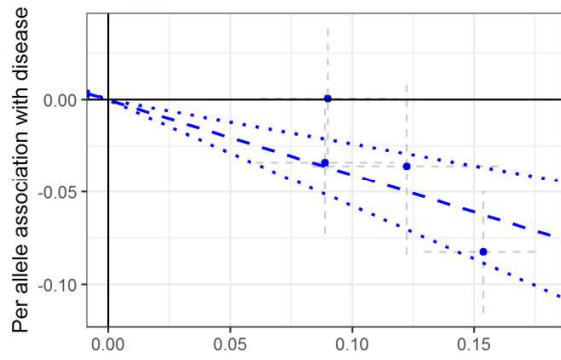
Inflammatory bowel disease



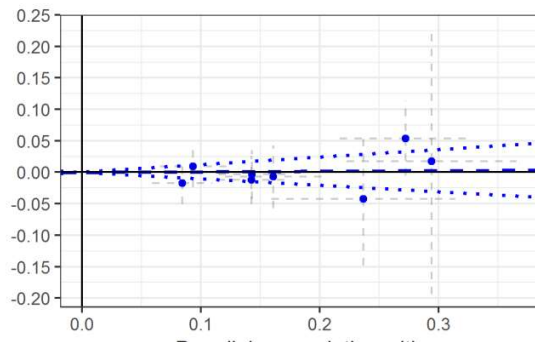
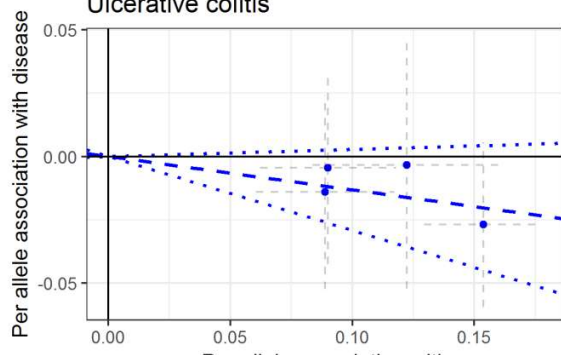
Omega-6 fatty acids



Crohn's disease

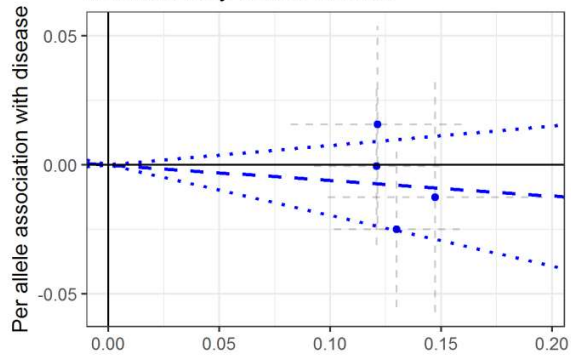


Ulcerative colitis

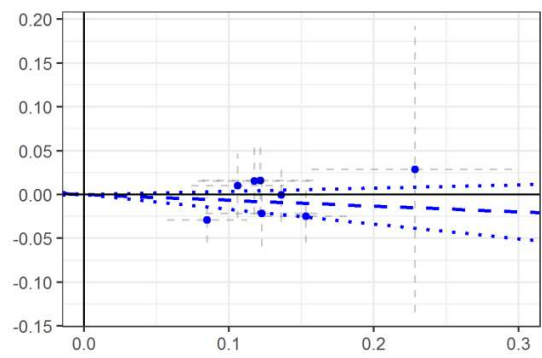


Monounsaturated fatty acids

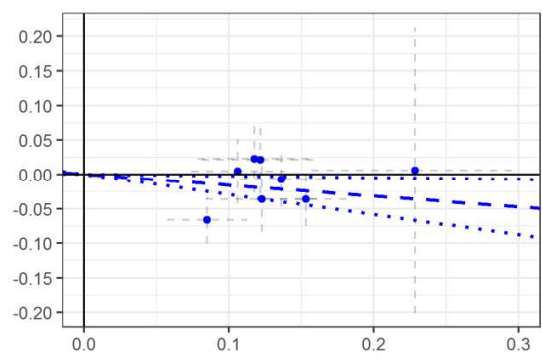
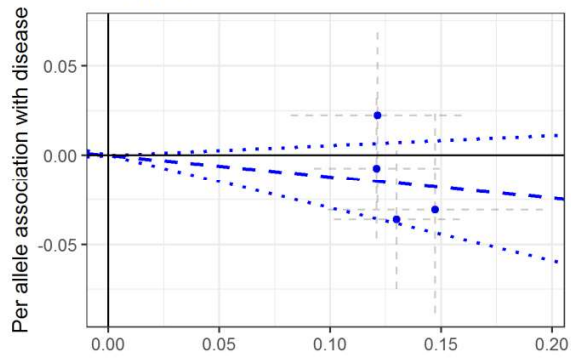
Inflammatory bowel disease



Total fatty acids



Crohn's disease



Ulcerative colitis

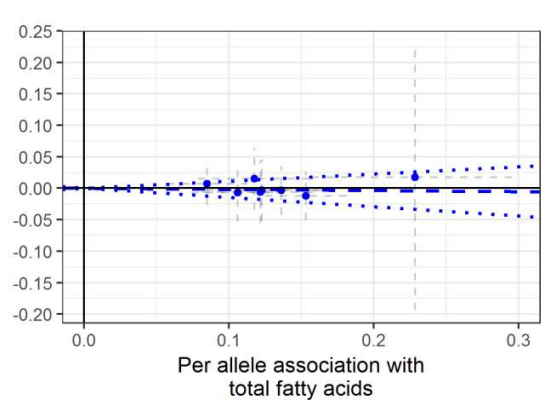
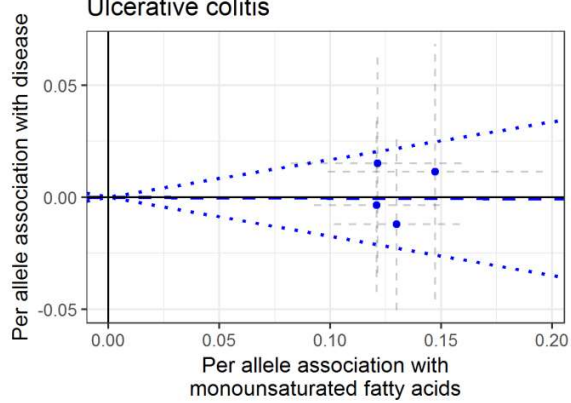


Table S1- Association summary statistics of genetic instruments for observed environmental risk factors and inflammatory bowel diseases (IBD), including Crohn's disease (CD), and ulcerative colitis (UC). CHR: Chromosome. BP. Base pair position on hg19. SE: standard error.

Phenotype	SNP	CHR	BP	Increasing trait/		Phenotype		IBD		CD		UC	
				Effect allele	Other allele	BETA	SE	BETA	SE	BETA	SE	BETA	SE
Smoking status (ever vs never)	rs12130857	1	7791461	G	A	0.018	0.003	0.005	0.013	-0.007	0.017	0.023	0.017
	rs301807	1	8484823	G	A	0.018	0.003	0.002	0.013	0.033	0.016	-0.021	0.016
	rs3820277	1	18436657	G	T	0.019	0.003	-0.002	0.013	0.002	0.017	-0.004	0.016
	rs1889571	1	32195819	G	T	0.022	0.004	-0.033	0.019	-0.036	0.024	-0.031	0.024
	rs10914684	1	33795572	G	A	0.016	0.003	0.045	0.013	0.033	0.017	0.058	0.017
	rs2637869	1	38757237	A	G	0.018	0.003	0.025	0.014	0.014	0.018	0.029	0.017
	rs12755632	1	41776623	A	G	0.015	0.003	-0.027	0.013	-0.027	0.017	-0.024	0.017
	rs951740	1	44011737	A	G	0.030	0.003	0.016	0.013	0.010	0.017	0.024	0.016
	rs925524	1	46496709	G	A	0.016	0.003	-0.028	0.014	-0.015	0.018	-0.040	0.018
	rs12022778	1	50603995	C	A	0.027	0.003	-0.052	0.016	-0.058	0.020	-0.045	0.020
	rs7553439	1	50861622	C	T	0.018	0.003	-0.020	0.015	-0.047	0.019	0.003	0.019
	rs4912332	1	58815243	T	C	0.014	0.003	0.003	0.012	-0.005	0.016	0.008	0.016
	rs6690398	1	66447394	A	G	0.020	0.003	-0.005	0.012	-0.018	0.016	0.007	0.016
	rs1022528	1	71490122	A	G	0.017	0.003	-0.024	0.013	-0.041	0.017	-0.018	0.017
	rs12740789	1	72752073	G	A	0.028	0.003	0.013	0.016	0.007	0.021	0.003	0.020
	rs10789369	1	73824909	A	G	0.023	0.003	0.014	0.013	0.021	0.016	0.014	0.016
	rs1514176	1	74991596	G	A	0.019	0.003	-0.008	0.013	-0.002	0.016	-0.010	0.016
	rs10873871	1	76689019	G	A	0.017	0.003	-0.019	0.015	-0.017	0.020	-0.018	0.020
	rs11162019	1	87913176	C	T	0.015	0.003	-0.018	0.013	0.007	0.017	-0.040	0.016
	rs1008078	1	91189731	T	C	0.023	0.003	0.019	0.013	0.008	0.017	0.020	0.016
	rs1935571	1	96414335	T	G	0.016	0.003	0.005	0.012	-0.001	0.016	0.008	0.016
	rs12027999	1	154206358	T	C	0.024	0.004	-0.041	0.019	-0.083	0.025	-0.012	0.024
	rs41264285	1	155033918	T	C	0.020	0.003	0.089	0.016	0.094	0.020	0.078	0.020
	rs2901785	1	174104743	G	A	0.017	0.003	-0.004	0.012	-0.017	0.016	0.002	0.016
	rs147052174	1	179783167	T	G	0.062	0.010	-0.018	0.048	-0.063	0.063	0.027	0.060
	rs35656245	1	190957480	A	G	0.016	0.003	0.005	0.014	-0.009	0.018	0.016	0.018
	rs12739243	1	210302043	T	C	0.021	0.003	0.022	0.015	-0.011	0.019	0.040	0.019
	rs12563365	1	236872829	A	G	0.017	0.003	0.031	0.013	0.026	0.016	0.032	0.016
	rs876793	1	237852083	T	C	0.018	0.003	0.000	0.013	0.002	0.017	0.007	0.017
	rs62106258	2	417167	T	C	0.045	0.006	0.011	0.032	0.042	0.042	-0.021	0.040
	rs6731872	2	624205	G	T	0.032	0.003	-0.018	0.016	-0.012	0.021	-0.021	0.021
	rs1022376	2	22067213	T	C	0.015	0.003	-0.004	0.013	-0.003	0.016	-0.003	0.016
	rs61533748	2	22582968	C	T	0.017	0.003	0.004	0.013	0.015	0.017	-0.006	0.016
	rs72790288	2	29513404	G	A	0.046	0.008	0.038	0.038	0.019	0.049	0.049	0.049
	rs2710634	2	32808804	T	C	0.018	0.003	-0.018	0.013	-0.010	0.016	-0.029	0.016
	rs62137126	2	44250149	A	G	0.024	0.004	0.018	0.019	0.034	0.025	-0.005	0.024
	rs1004787	2	45159091	A	G	0.028	0.003	-0.003	0.013	-0.016	0.016	0.007	0.016
	rs10490159	2	51341259	T	C	0.017	0.003	0.026	0.013	0.031	0.016	0.018	0.016
	rs17616642	2	59022210	A	G	0.017	0.003	0.004	0.014	-0.020	0.019	0.028	0.018
	rs6730325	2	59315828	G	A	0.015	0.003	0.005	0.013	0.011	0.016	0.005	0.016
	rs2539706	2	59819545	A	G	0.016	0.003	0.009	0.012	0.016	0.016	0.001	0.016
	rs1863161	2	60139524	A	G	0.015	0.003	-0.002	0.013	-0.001	0.016	-0.013	0.016
	rs359249	2	60480237	G	A	0.022	0.003	-0.007	0.013	-0.006	0.017	-0.004	0.016

rs62180324	2	63416606	G	A	0.020	0.003	-0.014	0.015	-0.029	0.020	-0.001	0.019
rs6750107	2	80748807	A	G	0.015	0.003	-0.007	0.013	-0.003	0.017	-0.016	0.016
rs12714017	2	80999398	C	T	0.015	0.003	-0.017	0.012	-0.011	0.016	-0.019	0.016
rs56208390	2	83247997	G	A	0.022	0.004	0.010	0.019	0.013	0.025	0.011	0.024
rs11692435	2	98275354	A	G	0.025	0.005	0.000	0.024	-0.011	0.030	0.013	0.030
rs13392222	2	100672408	A	C	0.023	0.004	-0.019	0.018	-0.008	0.024	-0.028	0.023
rs1901477	2	104126983	G	A	0.030	0.003	0.005	0.012	0.016	0.016	0.004	0.016
rs11889814	2	104432494	A	C	0.021	0.004	0.017	0.019	0.018	0.024	0.024	0.024
rs3811038	2	113240183	C	T	0.019	0.003	0.013	0.014	0.026	0.018	-0.002	0.018
rs75210106	2	113246436	C	T	0.019	0.003	0.023	0.017	0.025	0.021	0.023	0.021
rs34399632	2	137571174	G	A	0.019	0.003	-0.004	0.015	-0.013	0.019	0.008	0.019
rs74697736	2	145412271	A	G	0.022	0.003	-0.005	0.014	0.018	0.018	-0.019	0.018
rs6756212	2	146140132	C	T	0.034	0.003	-0.043	0.013	-0.027	0.016	-0.055	0.016
rs16826827	2	147825689	T	C	0.022	0.004	-0.045	0.019	-0.034	0.025	-0.056	0.024
rs1445649	2	155682556	C	T	0.021	0.003	0.009	0.012	-0.004	0.016	0.022	0.016
rs1722666	2	161816880	T	C	0.016	0.003	-0.030	0.014	-0.014	0.018	-0.039	0.018
rs12474587	2	162802993	T	G	0.024	0.003	-0.004	0.013	0.020	0.016	-0.021	0.016
rs357304	2	164862639	C	T	0.017	0.003	-0.018	0.014	0.003	0.018	-0.030	0.018
rs13007361	2	166250244	A	G	0.018	0.003	0.012	0.015	0.012	0.020	0.016	0.020
rs7600835	2	172521827	G	A	0.015	0.003	-0.003	0.014	0.010	0.018	-0.022	0.017
rs6750529	2	182027603	T	C	0.020	0.003	0.013	0.014	0.034	0.018	-0.011	0.018
rs17229285	2	199523122	C	T	0.015	0.003	0.040	0.012	0.000	0.016	0.085	0.016
rs3115418	2	200936399	T	C	0.014	0.003	-0.022	0.012	-0.013	0.016	-0.030	0.016
rs62193862	2	202843875	A	G	0.024	0.004	-0.036	0.022	-0.057	0.029	-0.027	0.028
rs4674916	2	225365635	C	A	0.018	0.003	0.022	0.013	0.043	0.017	0.002	0.017
rs4674993	2	226332033	A	G	0.024	0.003	0.015	0.016	0.016	0.020	0.017	0.020
rs11713899	3	2365026	C	A	0.019	0.003	-0.023	0.016	0.003	0.021	-0.045	0.021
rs748832	3	16851202	G	A	0.017	0.003	0.017	0.013	0.041	0.017	-0.017	0.016
rs10446419	3	25725501	A	G	0.020	0.003	-0.006	0.016	0.005	0.021	-0.010	0.020
rs3172494	3	48731487	G	T	0.029	0.004	-0.092	0.019	-0.101	0.025	-0.080	0.025
rs2526390	3	50192760	T	C	0.020	0.003	-0.058	0.013	-0.040	0.017	-0.078	0.017
rs2276825	3	52886605	C	T	0.019	0.003	-0.050	0.015	-0.046	0.019	-0.046	0.019
rs73831818	3	55988394	G	A	0.032	0.005	-0.036	0.027	-0.049	0.035	-0.022	0.034
rs1910236	3	59434420	A	G	0.015	0.003	0.001	0.013	-0.019	0.017	0.012	0.016
rs7640107	3	59966156	C	T	0.014	0.003	0.020	0.013	0.012	0.016	0.026	0.016
rs2734390	3	60459291	G	A	0.015	0.003	0.016	0.013	0.031	0.017	0.008	0.016
rs221988	3	64234307	A	C	0.015	0.003	-0.015	0.013	-0.014	0.017	-0.015	0.017
rs6776440	3	70888609	A	G	0.019	0.003	-0.007	0.014	-0.021	0.018	0.005	0.017
rs62246017	3	71483084	G	A	0.016	0.003	0.021	0.013	0.002	0.017	0.034	0.017
rs57876564	3	75000248	T	G	0.022	0.003	-0.024	0.016	-0.024	0.020	-0.024	0.020
rs6782116	3	77176032	C	T	0.015	0.003	0.008	0.013	-0.001	0.016	0.007	0.016
rs13066050	3	81325861	T	C	0.019	0.003	0.006	0.015	-0.014	0.020	0.019	0.020
rs1549979	3	85460131	C	T	0.025	0.003	-0.039	0.013	-0.029	0.016	-0.050	0.016
rs57153235	3	85902536	T	G	0.019	0.003	-0.032	0.013	-0.041	0.017	-0.030	0.017
rs6437769	3	107997514	T	C	0.014	0.003	0.023	0.013	0.023	0.016	0.026	0.016
rs9288999	3	114147927	A	G	0.017	0.003	0.016	0.014	0.033	0.019	0.014	0.018
rs6438436	3	117822149	T	C	0.025	0.003	0.009	0.016	0.016	0.021	0.004	0.021
rs12053870	3	118302515	G	T	0.016	0.003	0.002	0.013	0.009	0.016	0.001	0.016
rs2279829	3	147106319	C	T	0.017	0.003	0.001	0.015	0.012	0.020	-0.009	0.019
rs2319545	3	147719648	A	C	0.023	0.004	-0.004	0.018	-0.055	0.023	0.017	0.022
rs10935779	3	149543102	C	T	0.014	0.003	-0.005	0.013	-0.012	0.016	0.002	0.016

rs963354	3	157393770	A	C	0.015	0.003	-0.006	0.013	-0.029	0.017	0.014	0.017
rs1714521	3	158284861	A	C	0.016	0.003	-0.022	0.013	-0.019	0.016	-0.015	0.016
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rs1187820	3	173072584	C	T	0.014	0.003	0.001	0.013	0.009	0.017	-0.011	0.016
rs16828799	3	173353739	T	G	0.020	0.004	-0.015	0.017	-0.018	0.022	0.001	0.022
rs9841807	3	175718927	T	C	0.016	0.003	0.027	0.014	0.035	0.018	0.024	0.018
rs7631379	3	181409057	C	T	0.021	0.003	0.008	0.017	0.009	0.022	0.018	0.021
rs973629	4	15463221	A	G	0.014	0.003	-0.005	0.013	0.020	0.016	-0.030	0.016
rs12642744	4	28027176	G	T	0.017	0.003	-0.005	0.014	-0.006	0.018	0.000	0.018
rs59537158	4	28246049	T	C	0.022	0.003	0.000	0.016	0.006	0.020	0.002	0.020
rs73123371	4	28813881	T	C	0.017	0.003	0.013	0.014	0.027	0.019	0.003	0.018
rs55944129	4	29082156	T	C	0.018	0.003	-0.013	0.014	-0.002	0.018	-0.024	0.018
rs58400863	4	31184484	G	A	0.020	0.003	-0.013	0.013	-0.020	0.017	-0.004	0.017
rs13142792	4	35512296	C	T	0.019	0.003	-0.023	0.012	-0.018	0.016	-0.020	0.016
rs112725451	4	68017710	T	C	0.026	0.003	0.008	0.016	0.012	0.021	0.005	0.021
rs10021088	4	94059475	C	T	0.015	0.003	-0.026	0.012	-0.019	0.016	-0.028	0.016
rs1435479	4	94550450	T	G	0.016	0.003	-0.003	0.014	-0.005	0.018	-0.004	0.017
rs3934797	4	112467612	G	A	0.021	0.003	-0.005	0.017	0.023	0.021	-0.031	0.021
rs71602617	4	136406155	C	T	0.018	0.003	-0.005	0.015	0.000	0.020	-0.003	0.019
rs7696257	4	137474783	A	G	0.015	0.003	0.000	0.013	0.003	0.017	0.005	0.016
rs13109980	4	140886963	G	A	0.022	0.003	-0.013	0.013	0.016	0.017	-0.029	0.017
rs1116690	4	143510148	G	A	0.016	0.003	0.019	0.014	0.035	0.018	0.000	0.018
rs13110073	4	147797913	T	C	0.025	0.003	0.002	0.013	0.001	0.016	0.001	0.016
rs62334821	4	176865038	A	G	0.017	0.003	-0.009	0.016	-0.010	0.020	-0.020	0.020
rs12517438	5	30842054	G	T	0.015	0.003	-0.005	0.012	-0.008	0.016	-0.005	0.016
rs71627581	5	43161351	G	A	0.027	0.004	0.019	0.022	0.031	0.028	0.014	0.028
rs10052591	5	50812738	T	C	0.016	0.003	0.009	0.013	0.021	0.016	0.009	0.016
rs71592686	5	60121271	C	T	0.021	0.003	-0.006	0.014	0.013	0.018	-0.032	0.018
rs2028269	5	79308315	A	G	0.016	0.003	0.012	0.013	0.007	0.016	0.016	0.016
rs6874731	5	80263865	G	T	0.015	0.003	-0.020	0.013	-0.001	0.016	-0.041	0.016
rs10075489	5	88872383	T	C	0.018	0.003	-0.004	0.014	-0.007	0.018	-0.013	0.017
rs181508347	5	91366274	G	T	0.081	0.013	0.019	0.070	0.026	0.088	0.034	0.091
rs42417	5	94198290	T	C	0.017	0.003	0.002	0.014	-0.027	0.018	0.021	0.018
rs72780746	5	103929588	T	C	0.026	0.003	0.017	0.016	0.013	0.021	0.017	0.021
rs10060196	5	106455988	A	C	0.018	0.003	-0.011	0.013	-0.009	0.016	-0.014	0.016
rs17534089	5	106829219	A	G	0.026	0.004	-0.026	0.018	-0.050	0.023	-0.001	0.023
rs17165769	5	107365642	G	A	0.016	0.003	0.013	0.013	0.016	0.016	0.007	0.016
rs329124	5	133865452	A	G	0.016	0.003	-0.034	0.013	-0.036	0.016	-0.024	0.016
rs1385108	5	154839646	T	C	0.019	0.003	-0.001	0.014	0.000	0.019	-0.010	0.018
rs1173461	5	157707571	T	C	0.017	0.003	0.011	0.013	0.017	0.017	-0.003	0.017
rs3909281	5	165096435	G	T	0.021	0.003	-0.012	0.013	-0.028	0.017	-0.003	0.016
rs3843905	5	165427280	C	T	0.015	0.003	0.003	0.013	0.000	0.016	0.003	0.016
rs79476395	5	166063680	G	A	0.033	0.005	-0.012	0.024	-0.008	0.031	-0.016	0.030
rs6890961	5	166778503	C	T	0.019	0.003	0.001	0.014	-0.002	0.018	0.003	0.017
rs4044321	5	166989513	A	G	0.023	0.003	0.021	0.013	0.027	0.017	0.016	0.016
rs10042827	5	170299916	C	T	0.017	0.003	-0.010	0.013	-0.007	0.017	-0.008	0.017
rs359431	5	173288534	C	T	0.014	0.003	-0.042	0.013	-0.063	0.016	-0.027	0.016
rs1059490	6	26171250	T	C	0.019	0.003	-0.004	0.013	0.005	0.017	-0.003	0.016
rs1150668	6	28129789	T	G	0.019	0.003	-0.007	0.013	-0.005	0.016	-0.007	0.016
rs1632941	6	29796685	T	C	0.016	0.003	0.049	0.014	0.067	0.018	0.034	0.018

rs3218116	6	41901763	C	T	0.020	0.003	-0.011	0.014	0.001	0.018	-0.022	0.018
rs160631	6	52895230	T	G	0.017	0.003	-0.027	0.014	0.009	0.018	-0.055	0.018
rs7743165	6	67521222	G	T	0.019	0.003	0.009	0.012	0.027	0.016	-0.004	0.016
rs10945141	6	69470709	A	G	0.018	0.003	-0.004	0.014	-0.003	0.018	-0.003	0.018
rs4707675	6	92221558	G	A	0.014	0.003	0.009	0.012	0.003	0.016	0.018	0.016
rs619087	6	94175279	G	A	0.014	0.003	-0.015	0.013	-0.005	0.016	-0.021	0.016
rs6568832	6	97702876	A	G	0.019	0.003	-0.005	0.014	-0.035	0.019	0.019	0.018
rs12195240	6	98636905	A	G	0.025	0.003	0.011	0.014	0.008	0.018	0.021	0.017
rs6936160	6	100347745	T	C	0.020	0.003	-0.017	0.014	-0.027	0.018	-0.006	0.017
rs12530388	6	101329173	A	C	0.018	0.003	-0.011	0.012	-0.016	0.016	-0.013	0.016
rs3800227	6	108994161	G	A	0.017	0.003	0.010	0.014	-0.002	0.018	0.026	0.018
rs118202	6	111658371	G	T	0.037	0.003	-0.009	0.016	0.008	0.021	-0.027	0.020
rs9331343	6	157738258	T	C	0.014	0.003	-0.006	0.014	-0.006	0.019	-0.004	0.018
rs10698713	6	158882320	G	A	0.034	0.006	0.000	0.027	-0.027	0.035	0.024	0.035
rs1764021	6	163805682	C	T	0.017	0.003	0.009	0.014	0.010	0.018	0.015	0.018
rs10272990	7	1703675	T	C	0.021	0.003	0.022	0.013	0.016	0.017	0.035	0.017
rs57257948	7	3330595	C	T	0.019	0.003	0.010	0.014	-0.011	0.018	0.031	0.018
rs7809303	7	69484366	G	A	0.021	0.003	0.004	0.013	-0.006	0.017	0.017	0.017
rs7802996	7	77771983	C	T	0.021	0.003	-0.004	0.017	-0.017	0.022	0.011	0.021
rs1030015	7	78139581	T	G	0.014	0.003	0.011	0.012	0.036	0.016	-0.016	0.016
rs4727189	7	88442568	C	T	0.015	0.003	0.022	0.013	0.027	0.017	0.022	0.017
rs12673563	7	91280470	C	T	0.023	0.004	-0.040	0.021	-0.022	0.027	-0.060	0.026
rs1799068	7	97707069	T	G	0.017	0.003	-0.002	0.013	0.027	0.016	-0.033	0.016
rs13437771	7	99071478	A	G	0.027	0.004	-0.015	0.017	-0.007	0.022	-0.025	0.022
rs11766326	7	111100585	T	C	0.018	0.003	-0.026	0.013	-0.011	0.016	-0.036	0.016
rs6968380	7	114940159	G	A	0.023	0.003	0.005	0.014	0.018	0.018	0.005	0.017
rs112913817	7	115077394	G	A	0.078	0.012	-0.071	0.065	-0.040	0.082	-0.090	0.082
rs10233018	7	117523709	G	A	0.025	0.003	-0.009	0.012	0.016	0.016	-0.020	0.016
rs10953957	7	121954709	A	G	0.014	0.003	-0.002	0.013	0.012	0.017	-0.013	0.016
rs77283305	7	132593831	G	A	0.015	0.003	0.013	0.013	0.003	0.017	0.020	0.017
rs10279261	7	133589846	G	A	0.019	0.003	0.004	0.013	0.008	0.017	0.003	0.016
rs1561112	7	133840652	T	C	0.015	0.003	0.008	0.013	0.013	0.017	0.012	0.016
rs4840525	8	10765635	C	A	0.018	0.003	0.015	0.012	0.035	0.016	-0.009	0.016
rs11783093	8	27425349	C	T	0.047	0.003	-0.004	0.017	0.003	0.022	0.004	0.022
rs7836565	8	52569449	C	T	0.016	0.003	0.026	0.014	0.025	0.018	0.019	0.018
rs13261666	8	59814666	G	T	0.020	0.003	0.034	0.012	0.037	0.016	0.035	0.016
rs2063976	8	91096366	C	T	0.020	0.003	-0.018	0.013	-0.017	0.017	-0.018	0.017
rs6993429	8	92733282	C	A	0.019	0.003	0.013	0.012	0.012	0.016	0.003	0.016
rs6986430	8	93048104	T	C	0.024	0.003	0.007	0.015	-0.003	0.019	0.007	0.019
rs9987376	8	93190014	T	G	0.020	0.003	0.014	0.013	0.008	0.016	0.020	0.016
rs290601	8	115374642	T	C	0.016	0.003	-0.022	0.014	-0.019	0.018	-0.023	0.018
rs3847244	9	3025368	T	C	0.019	0.003	0.015	0.013	0.031	0.016	0.002	0.016
rs11791671	9	3398679	T	C	0.028	0.005	-0.049	0.025	-0.045	0.032	-0.054	0.031
rs7024924	9	8282399	C	T	0.019	0.003	0.036	0.016	0.054	0.021	0.016	0.021
rs2382252	9	10988832	C	A	0.016	0.003	-0.007	0.013	-0.004	0.016	-0.008	0.016
rs2078580	9	11159452	A	G	0.018	0.003	-0.003	0.012	0.008	0.016	-0.010	0.016
rs7867822	9	20676454	A	G	0.015	0.003	-0.020	0.013	-0.024	0.017	-0.018	0.017
rs10966092	9	23831658	T	C	0.020	0.003	-0.001	0.014	-0.001	0.018	-0.002	0.018
rs988961	9	29746545	G	A	0.014	0.003	0.001	0.012	-0.025	0.016	0.020	0.016
rs4877285	9	81354129	G	A	0.018	0.003	0.004	0.014	0.031	0.017	-0.022	0.017
rs1930371	9	81444104	C	T	0.017	0.003	0.024	0.014	0.028	0.019	0.016	0.018

rs2378662	9	86707289	A	G	0.015	0.003	-0.001	0.013	0.009	0.016	-0.007	0.016
rs1927901	9	120519111	T	C	0.014	0.003	0.009	0.012	0.021	0.016	0.001	0.016
rs4837631	9	122061948	C	T	0.015	0.003	0.003	0.012	-0.003	0.016	0.012	0.016
rs1759433	9	128073097	A	G	0.015	0.003	-0.003	0.013	0.008	0.016	-0.015	0.016
rs34553878	9	134334588	G	A	0.025	0.004	0.014	0.021	0.042	0.027	-0.017	0.027
rs7026534	9	134907263	T	G	0.017	0.003	0.020	0.014	0.029	0.018	0.014	0.017
rs10905461	10	8803551	T	C	0.016	0.003	-0.010	0.014	-0.011	0.018	-0.005	0.018
rs10905649	10	10042641	C	T	0.016	0.003	-0.031	0.012	-0.035	0.016	-0.023	0.016
rs1291821	10	11133823	G	A	0.014	0.003	0.017	0.012	-0.002	0.016	0.034	0.016
rs11258417	10	13533053	C	T	0.015	0.003	-0.006	0.013	-0.023	0.016	0.014	0.016
rs7072776	10	22032942	A	G	0.022	0.003	0.021	0.014	0.003	0.018	0.032	0.018
rs2796793	10	36634124	A	G	0.014	0.003	0.013	0.012	0.019	0.016	0.022	0.016
rs1733760	10	56698174	C	T	0.015	0.003	0.046	0.012	0.043	0.016	0.044	0.016
rs7083526	10	63675843	T	C	0.023	0.003	-0.010	0.013	-0.008	0.016	-0.009	0.016
rs7901883	10	103186838	G	A	0.019	0.003	0.024	0.015	0.011	0.019	0.023	0.019
rs11594623	10	103960351	C	T	0.027	0.003	0.011	0.015	0.017	0.019	0.002	0.018
rs12244388	10	104640052	A	G	0.026	0.003	-0.005	0.013	-0.001	0.017	0.003	0.017
rs34970111	10	106078937	C	T	0.015	0.003	-0.001	0.013	-0.004	0.017	0.007	0.016
rs9787523	10	106460460	T	C	0.016	0.003	0.007	0.013	0.006	0.016	0.006	0.016
rs11192347	10	106929313	G	A	0.026	0.004	0.016	0.020	0.012	0.026	0.014	0.026
rs10885480	10	115378364	T	C	0.019	0.003	0.011	0.014	0.026	0.018	-0.010	0.018
rs4752018	10	118678712	A	C	0.019	0.003	-0.036	0.015	-0.043	0.019	-0.034	0.019
rs6265	11	27679916	C	T	0.029	0.003	0.008	0.016	-0.026	0.020	0.030	0.020
rs4275621	11	28652996	A	G	0.021	0.003	-0.016	0.013	-0.009	0.017	-0.018	0.016
rs62618693	11	32956492	C	T	0.035	0.006	0.043	0.032	0.012	0.042	0.044	0.041
rs2939756	11	41436297	G	A	0.016	0.003	0.022	0.012	0.023	0.016	0.021	0.016
rs1381775	11	42442826	T	C	0.016	0.003	-0.011	0.014	0.003	0.018	-0.020	0.018
rs2959084	11	46078656	A	G	0.017	0.003	0.014	0.014	0.027	0.018	0.000	0.017
rs3740977	11	46393574	C	T	0.019	0.003	0.004	0.017	0.006	0.022	0.010	0.021
rs61886926	11	64133552	C	T	0.018	0.003	0.055	0.013	0.077	0.017	0.031	0.016
rs61884449	11	64485193	T	C	0.020	0.004	0.001	0.018	0.010	0.023	-0.017	0.023
rs644740	11	65561468	C	T	0.014	0.003	0.023	0.012	0.029	0.016	0.023	0.016
rs7943721	11	73309393	G	A	0.021	0.003	0.004	0.018	-0.006	0.023	0.017	0.023
rs7929518	11	85980958	G	A	0.019	0.003	-0.022	0.015	-0.015	0.019	-0.015	0.019
rs586699	11	92289734	G	A	0.015	0.003	-0.015	0.012	-0.030	0.016	0.006	0.016
rs2155646	11	112912811	C	T	0.038	0.003	0.002	0.013	-0.012	0.016	0.015	0.016
rs1713676	11	113660576	A	G	0.017	0.003	0.013	0.012	0.021	0.016	0.004	0.016
rs238896	11	113994505	G	A	0.017	0.003	0.033	0.013	0.038	0.016	0.017	0.016
rs540860	11	121530888	G	A	0.018	0.003	-0.002	0.013	0.010	0.016	-0.012	0.016
rs1944689	11	121634334	T	G	0.018	0.003	-0.054	0.015	-0.047	0.019	-0.059	0.019
rs1834306	11	122023187	A	G	0.014	0.003	0.019	0.013	-0.008	0.017	0.044	0.017
rs1106363	11	131966264	T	C	0.017	0.003	-0.007	0.013	-0.032	0.017	0.011	0.017
rs2010921	11	132098205	A	G	0.017	0.003	-0.005	0.014	0.012	0.018	-0.022	0.017
rs11057005	12	16748721	A	G	0.016	0.003	-0.019	0.013	-0.034	0.016	-0.018	0.016
rs13906	12	49952394	C	T	0.025	0.004	0.005	0.020	-0.019	0.026	0.018	0.025
rs4759229	12	56474480	G	A	0.016	0.003	-0.011	0.013	-0.016	0.017	-0.012	0.017
rs7969559	12	69655167	A	G	0.017	0.003	0.025	0.014	0.042	0.018	0.016	0.017
rs7134009	12	75263193	T	C	0.016	0.003	0.012	0.014	0.020	0.018	0.001	0.018
rs77215829	12	112618346	A	C	0.024	0.004	0.089	0.020	0.083	0.025	0.093	0.025
rs1109480	12	121083279	G	A	0.017	0.003	-0.011	0.013	0.000	0.017	-0.015	0.017
rs11611651	12	133380790	A	G	0.027	0.005	-0.001	0.023	0.012	0.029	0.000	0.029

rs17197663	13	38172867	G	A	0.022	0.004	-0.034	0.018	0.000	0.024	-0.075	0.023
rs4264267	13	38359676	T	C	0.015	0.003	0.003	0.013	0.012	0.016	-0.003	0.016
rs61959481	13	55834929	G	A	0.020	0.003	-0.005	0.016	-0.004	0.020	-0.016	0.020
rs3098272	13	55931424	A	C	0.018	0.003	0.026	0.016	0.028	0.020	0.017	0.020
rs9538162	13	59265043	C	T	0.017	0.003	0.014	0.013	0.032	0.016	0.001	0.016
rs1413119	13	59339281	C	T	0.015	0.003	0.021	0.013	0.032	0.016	0.007	0.016
rs56367474	13	59454139	C	T	0.017	0.003	0.042	0.014	0.046	0.018	0.032	0.018
rs55786907	13	59871584	G	A	0.019	0.003	-0.017	0.017	-0.008	0.022	-0.026	0.021
rs4886207	13	60705792	T	C	0.016	0.003	0.010	0.013	0.016	0.017	0.008	0.016
rs9540731	13	66949370	C	T	0.018	0.003	0.001	0.012	0.014	0.016	-0.012	0.016
rs9545155	13	80191873	T	C	0.016	0.003	-0.011	0.012	-0.024	0.016	0.002	0.016
rs1772572	13	81191176	C	A	0.017	0.003	0.002	0.013	-0.012	0.017	0.013	0.017
rs75674569	13	96823724	G	A	0.025	0.004	0.015	0.021	-0.006	0.026	0.044	0.026
rs7333559	13	100546450	G	A	0.023	0.003	0.010	0.016	-0.007	0.021	0.022	0.020
rs12855717	13	101252635	T	C	0.016	0.003	0.019	0.013	0.001	0.016	0.032	0.016
rs12878369	14	28346502	A	C	0.017	0.003	0.006	0.013	-0.011	0.016	0.015	0.016
rs9323328	14	58653514	A	G	0.014	0.003	0.011	0.013	0.012	0.016	0.013	0.016
rs1811739	14	77529375	A	G	0.018	0.003	-0.006	0.014	-0.001	0.019	-0.016	0.018
rs8005334	14	79563654	G	T	0.017	0.003	-0.003	0.013	-0.018	0.016	0.001	0.016
rs34940743	14	80102233	G	A	0.016	0.003	0.006	0.014	-0.016	0.018	0.018	0.018
rs2925128	14	98362355	T	C	0.017	0.003	0.011	0.013	0.004	0.016	0.011	0.016
rs1381287	14	98597552	T	C	0.018	0.003	-0.008	0.013	-0.022	0.016	0.007	0.016
rs55913542	14	99693843	T	G	0.019	0.003	-0.002	0.016	0.000	0.021	0.018	0.021
rs1435672	15	36399479	C	T	0.014	0.003	0.018	0.012	0.025	0.016	0.020	0.016
rs281296	15	47685010	A	G	0.025	0.003	0.031	0.013	0.030	0.017	0.036	0.017
rs56902655	15	63898709	T	G	0.022	0.004	0.017	0.018	0.023	0.023	0.007	0.023
rs2289791	15	67476952	G	T	0.018	0.003	0.055	0.015	0.064	0.019	0.053	0.019
rs60833441	15	74048768	A	G	0.014	0.003	-0.006	0.012	0.020	0.016	-0.029	0.016
rs62007780	15	78025464	G	T	0.016	0.003	0.004	0.013	0.022	0.016	-0.013	0.016
rs55958435	15	96852638	A	G	0.018	0.003	0.030	0.015	0.041	0.019	0.022	0.019
rs8027457	15	99204101	C	T	0.015	0.003	0.034	0.013	0.035	0.016	0.033	0.016
rs1139897	16	720986	G	A	0.024	0.003	-0.008	0.015	-0.003	0.019	-0.007	0.019
rs11076962	16	5811367	C	T	0.018	0.003	-0.007	0.014	-0.015	0.018	-0.004	0.018
rs7192140	16	10173748	T	C	0.017	0.003	-0.023	0.012	-0.027	0.016	-0.020	0.016
rs9922607	16	17570220	C	T	0.022	0.003	0.011	0.016	-0.015	0.020	0.023	0.020
rs7188873	16	24727064	G	A	0.020	0.003	0.031	0.013	0.041	0.017	0.025	0.016
rs6497840	16	25351633	A	G	0.023	0.003	-0.012	0.014	-0.022	0.018	0.012	0.018
rs4785187	16	49766772	A	G	0.020	0.003	0.018	0.015	0.019	0.020	0.020	0.019
rs8050598	16	49891964	T	C	0.019	0.003	-0.014	0.016	-0.047	0.020	0.006	0.020
rs12918191	16	50945156	A	G	0.020	0.003	-0.027	0.015	-0.044	0.019	-0.007	0.019
rs9302604	16	69576894	G	A	0.019	0.003	0.030	0.012	0.030	0.016	0.031	0.016
rs9936784	16	72230694	G	T	0.014	0.003	-0.027	0.012	-0.056	0.016	0.002	0.016
rs62052918	16	72578594	T	G	0.032	0.005	0.021	0.024	-0.003	0.032	0.012	0.031
rs4788676	16	72950468	T	C	0.018	0.003	-0.027	0.015	-0.032	0.019	-0.028	0.019
rs117657830	16	75766873	A	G	0.038	0.006	-0.010	0.032	0.008	0.041	-0.043	0.040
rs1050847	16	87443734	C	T	0.015	0.003	0.001	0.013	0.008	0.016	0.010	0.016
rs11642231	16	89608702	G	A	0.016	0.003	0.013	0.013	0.026	0.017	0.008	0.017
rs4790874	17	1995177	T	C	0.017	0.003	0.007	0.013	-0.005	0.016	0.013	0.016
rs11078713	17	7795972	A	G	0.015	0.003	0.003	0.013	0.011	0.017	-0.001	0.016
rs28441558	17	7803118	T	C	0.036	0.006	0.064	0.028	0.100	0.037	0.032	0.036
rs11651955	17	16235462	G	A	0.014	0.003	-0.001	0.013	0.006	0.016	0.001	0.016

Cigarettes per day

rs67777803	17	27323322	G	T	0.025	0.003	0.014	0.017	-0.006	0.021	0.021	0.021
rs2344976	17	30685935	T	C	0.015	0.003	0.025	0.013	0.028	0.016	0.021	0.016
rs3764351	17	37824339	G	A	0.015	0.003	-0.066	0.013	-0.075	0.017	-0.051	0.017
rs75919030	17	50193197	T	C	0.021	0.003	-0.016	0.014	-0.011	0.018	-0.020	0.018
rs2938134	17	50243397	C	A	0.018	0.003	0.000	0.013	0.022	0.017	-0.014	0.017
rs2587507	17	77790135	T	C	0.015	0.003	-0.016	0.012	-0.010	0.016	-0.016	0.016
rs34342129	18	5872472	T	C	0.014	0.003	-0.003	0.012	0.006	0.016	-0.015	0.016
rs4476253	18	25253297	G	A	0.018	0.003	0.002	0.015	0.020	0.019	-0.014	0.019
rs7505855	18	31696075	C	T	0.017	0.003	-0.006	0.013	0.003	0.016	0.003	0.016
rs8096225	18	36921851	C	A	0.016	0.003	-0.002	0.014	0.002	0.018	-0.005	0.017
rs67050670	18	39297254	A	G	0.020	0.003	0.007	0.015	-0.008	0.019	0.011	0.019
rs72898831	18	42658643	A	G	0.024	0.004	0.000	0.017	-0.011	0.022	0.012	0.022
rs8083764	18	49874515	G	T	0.016	0.003	-0.016	0.013	-0.023	0.017	-0.014	0.017
rs1373178	18	49967811	T	G	0.020	0.003	-0.040	0.013	-0.034	0.016	-0.044	0.016
rs72938304	18	53661743	G	A	0.027	0.004	-0.005	0.020	-0.003	0.026	-0.006	0.025
rs11872397	18	72535282	G	A	0.017	0.003	0.015	0.015	0.009	0.019	0.017	0.019
rs71367544	18	77574374	T	C	0.021	0.003	-0.041	0.016	-0.052	0.020	-0.025	0.020
rs76608582	19	4474725	C	A	0.035	0.006	-0.001	0.036	0.013	0.046	-0.012	0.045
rs10853981	19	4965064	A	G	0.015	0.003	-0.010	0.013	-0.009	0.017	0.000	0.017
rs113230003	19	18460956	G	A	0.019	0.003	0.014	0.015	0.020	0.019	0.022	0.019
rs8103660	19	18566395	C	T	0.016	0.003	0.032	0.013	0.066	0.017	-0.001	0.017
rs78081759	19	51130909	A	G	0.030	0.005	0.037	0.026	0.035	0.034	0.025	0.034
rs1126757	19	55879872	T	C	0.014	0.003	-0.007	0.013	-0.014	0.017	-0.005	0.017
rs6050446	20	25195509	G	A	0.054	0.008	0.110	0.036	0.182	0.048	0.026	0.045
rs6058782	20	29946968	T	C	0.030	0.004	0.069	0.022	0.074	0.028	0.053	0.028
rs67696533	20	31173362	A	G	0.019	0.003	0.055	0.014	0.068	0.018	0.043	0.017
rs6103271	20	42015848	A	G	0.019	0.003	0.004	0.016	0.028	0.021	-0.012	0.021
rs6011779	20	61984317	C	T	0.019	0.003	0.025	0.017	0.026	0.022	0.026	0.022
rs3810496	20	62406886	C	T	0.016	0.003	0.055	0.013	0.061	0.017	0.046	0.017
rs4818005	21	40588819	G	A	0.020	0.003	0.004	0.013	0.015	0.016	-0.009	0.016
rs139896	22	38397797	C	T	0.015	0.003	-0.022	0.013	0.006	0.017	-0.042	0.016
rs4822102	22	42698430	C	T	0.017	0.003	-0.024	0.013	-0.022	0.017	-0.024	0.016
rs9627290	22	46443040	T	C	0.015	0.003	0.035	0.013	0.019	0.018	0.047	0.017
rs11264100	1	35591626	A	G	0.022	0.004	0.003	0.020	0.008	0.026	-0.001	0.025
rs7599488	2	60718347	T	C	0.014	0.002	0.010	0.013	-0.005	0.016	0.013	0.016
rs78408772	2	62710608	C	T	0.022	0.004	-0.011	0.021	-0.008	0.027	-0.020	0.026
rs10204824	2	148372720	A	G	0.018	0.003	0.031	0.013	0.027	0.017	0.042	0.017
rs2084533	3	16872929	T	C	0.016	0.003	-0.002	0.013	0.015	0.017	-0.030	0.017
rs7431710	3	48935583	G	A	0.018	0.003	0.008	0.013	0.027	0.017	-0.010	0.016
rs2236951	3	50421081	T	C	0.017	0.003	0.043	0.016	0.057	0.020	0.037	0.020
rs699165	3	136224697	G	A	0.016	0.003	-0.012	0.014	-0.018	0.018	0.000	0.018
rs28813180	3	158083918	G	A	0.015	0.002	-0.026	0.012	-0.023	0.016	-0.032	0.016
rs11940255	4	67086288	G	A	0.017	0.003	-0.012	0.014	0.010	0.018	-0.029	0.018
rs10454798	4	67980830	T	G	0.016	0.003	0.021	0.014	0.023	0.018	0.024	0.018
rs7766641	6	26184102	G	A	0.017	0.003	-0.012	0.014	0.020	0.018	-0.031	0.018
rs215600	7	32333642	G	A	0.024	0.003	0.014	0.013	0.008	0.017	0.006	0.016
rs62447179	7	50339609	G	A	0.015	0.003	0.015	0.014	0.067	0.018	-0.029	0.017
rs2741351	8	27418040	C	A	0.018	0.003	0.024	0.017	0.015	0.021	0.026	0.021
rs73229090	8	27442127	A	C	0.026	0.004	0.008	0.020	-0.010	0.026	0.001	0.025
rs13253502	8	42442018	G	A	0.014	0.002	0.048	0.013	0.066	0.017	0.031	0.016
rs4236926	8	42578059	G	T	0.034	0.003	0.003	0.015	0.012	0.019	-0.005	0.019

Body-mass index

rs790564	8	64604218	A	C	0.018	0.003	-0.014	0.014	-0.011	0.018	-0.006	0.018
rs75596189	9	136468701	T	C	0.036	0.004	-0.065	0.021	-0.065	0.028	-0.057	0.027
rs3025383	9	136502369	T	C	0.031	0.003	-0.026	0.016	-0.035	0.021	-0.010	0.021
rs7951365	11	16377044	C	T	0.018	0.003	0.000	0.013	0.005	0.017	-0.002	0.017
rs10742683	11	43667625	G	A	0.013	0.002	0.000	0.013	0.007	0.016	-0.012	0.016
rs7125588	11	113436072	A	G	0.017	0.002	0.017	0.013	0.013	0.016	0.009	0.016
rs11846838	14	104184737	A	G	0.015	0.003	0.007	0.013	0.017	0.017	-0.005	0.017
rs1115019	15	57141231	T	C	0.018	0.003	-0.007	0.015	0.004	0.019	-0.014	0.019
rs632811	15	59155050	A	G	0.018	0.003	-0.021	0.013	-0.008	0.017	-0.031	0.017
rs10519203	15	78814046	G	A	0.094	0.003	0.001	0.013	0.004	0.017	-0.009	0.017
rs182317	15	89943601	G	T	0.016	0.003	-0.014	0.013	-0.025	0.017	-0.006	0.017
rs1592485	16	52093549	C	A	0.016	0.003	0.010	0.013	-0.004	0.016	0.023	0.016
rs12924872	16	69552215	C	T	0.013	0.002	0.031	0.013	0.025	0.016	0.035	0.016
rs258321	16	89756473	G	A	0.016	0.002	-0.001	0.013	0.001	0.016	0.001	0.016
rs4144686	18	53251725	G	A	0.019	0.003	0.003	0.017	0.016	0.022	-0.010	0.021
rs4485470	18	62125063	G	A	0.015	0.002	-0.014	0.013	-0.016	0.017	-0.004	0.016
rs7351050	19	4044579	G	A	0.020	0.003	-0.053	0.017	-0.069	0.022	-0.044	0.022
rs145580088	19	41342842	A	G	0.086	0.008	-0.082	0.048	-0.075	0.063	-0.069	0.061
rs56113850	19	41353107	C	T	0.052	0.002	0.001	0.013	-0.006	0.017	0.002	0.017
rs8192726	19	41354496	C	A	0.039	0.005	-0.005	0.029	0.015	0.037	-0.011	0.036
rs117824460	19	41371480	A	G	0.095	0.008	-0.002	0.043	-0.037	0.055	0.018	0.054
rs6078373	20	11863500	A	G	0.016	0.002	-0.021	0.013	-0.019	0.016	-0.022	0.016
rs293534	20	31065490	G	A	0.017	0.002	0.056	0.013	0.056	0.016	0.052	0.016
rs2273500	20	61986949	C	T	0.036	0.003	0.026	0.020	0.035	0.025	0.011	0.025
rs7281463	21	40520783	C	A	0.014	0.002	-0.001	0.013	0.009	0.016	-0.012	0.016
rs12044597	1	1708801	G	A	0.014	0.002	-0.063	0.013	-0.055	0.016	-0.064	0.016
rs7535528	1	2444414	G	A	0.015	0.002	-0.043	0.013	0.003	0.017	-0.081	0.017
rs2235564	1	6713114	T	C	0.013	0.002	-0.015	0.013	-0.017	0.017	-0.015	0.017
rs1891215	1	7727854	C	T	0.012	0.002	-0.023	0.013	-0.029	0.016	-0.019	0.016
rs11121210	1	8708529	C	T	0.011	0.002	-0.012	0.013	0.019	0.017	-0.034	0.016
rs10779751	1	11284336	A	G	0.014	0.002	-0.025	0.014	-0.052	0.018	-0.002	0.018
rs761423	1	17301672	T	C	0.011	0.002	-0.004	0.013	0.015	0.016	-0.020	0.016
rs3845520	1	23301943	C	T	0.019	0.002	0.014	0.016	0.018	0.021	0.013	0.021
rs3818788	1	32158374	C	T	0.013	0.002	-0.012	0.013	-0.008	0.017	-0.019	0.017
rs12022461	1	33232525	G	A	0.016	0.002	0.019	0.016	-0.005	0.021	0.040	0.021
rs4653017	1	33776728	T	C	0.012	0.002	0.041	0.013	0.024	0.017	0.056	0.017
rs9426003	1	34602870	G	A	0.012	0.002	0.022	0.014	0.009	0.018	0.031	0.018
rs11577094	1	38026600	T	C	0.018	0.003	0.031	0.023	0.059	0.030	0.004	0.029
rs2282231	1	39569571	T	C	0.017	0.002	0.010	0.015	0.040	0.020	-0.022	0.020
rs11206436	1	40078447	T	C	0.017	0.003	0.021	0.020	0.021	0.026	0.018	0.026
rs946526	1	46487168	C	T	0.031	0.004	-0.049	0.032	-0.042	0.042	-0.046	0.041
rs657452	1	49589847	A	G	0.019	0.002	-0.050	0.013	-0.059	0.016	-0.039	0.016
rs7530169	1	50168591	T	C	0.019	0.002	-0.049	0.013	-0.043	0.017	-0.054	0.017
rs4926853	1	50709222	A	G	0.012	0.002	-0.036	0.014	-0.038	0.018	-0.034	0.017
rs3766430	1	54730651	C	T	0.011	0.002	-0.003	0.013	-0.003	0.016	-0.001	0.016
rs17424278	1	57846394	C	A	0.017	0.003	-0.032	0.020	-0.030	0.026	-0.028	0.026
rs2481665	1	62594677	T	C	0.016	0.002	-0.006	0.013	0.011	0.016	-0.017	0.016
rs10889550	1	65906067	G	A	0.024	0.004	-0.037	0.031	-0.024	0.040	-0.052	0.040
rs7519259	1	66434743	A	G	0.013	0.002	-0.008	0.012	-0.016	0.016	0.001	0.016
rs1993709	1	72838529	G	A	0.033	0.002	0.018	0.016	0.011	0.021	0.009	0.020
rs7551507	1	74995225	C	T	0.018	0.002	-0.007	0.013	0.001	0.016	-0.006	0.016

rs12049202	1	77967523	T	C	0.024	0.002	-0.037	0.016	-0.062	0.020	-0.003	0.020
rs17391694	1	78623626	T	C	0.032	0.003	-0.066	0.019	-0.114	0.026	-0.016	0.024
rs12065553	1	80793118	G	A	0.012	0.002	0.012	0.014	0.026	0.018	0.011	0.017
rs284227	1	82379446	C	T	0.015	0.002	-0.001	0.015	0.008	0.019	-0.011	0.019
rs6690764	1	92976590	G	A	0.015	0.002	0.025	0.015	0.009	0.020	0.037	0.020
rs1361739	1	96289734	G	A	0.018	0.002	-0.018	0.013	-0.021	0.017	-0.020	0.017
rs11165643	1	96924097	T	C	0.021	0.002	-0.009	0.013	-0.019	0.016	-0.006	0.016
rs995258	1	97431052	A	C	0.014	0.002	-0.011	0.013	-0.005	0.016	-0.020	0.016
rs4523552	1	98328093	T	C	0.014	0.002	0.000	0.015	0.010	0.020	-0.013	0.019
rs1730859	1	107617707	G	A	0.012	0.002	-0.047	0.013	-0.028	0.017	-0.055	0.017
rs17531363	1	107977075	A	C	0.013	0.002	-0.022	0.014	-0.037	0.018	0.004	0.017
rs7550711	1	110082886	T	C	0.065	0.005	-0.054	0.039	-0.048	0.050	-0.060	0.049
rs12033257	1	112318484	A	G	0.015	0.002	-0.002	0.014	-0.006	0.017	0.003	0.018
rs2007231	1	115266306	C	T	0.010	0.002	0.011	0.013	-0.012	0.017	0.023	0.017
rs7534091	1	118864616	G	A	0.011	0.002	0.015	0.014	0.017	0.018	0.019	0.018
rs10923724	1	119546842	C	T	0.012	0.002	0.013	0.013	0.007	0.016	0.023	0.016
rs6587552	1	151018861	A	G	0.017	0.002	0.022	0.015	0.027	0.019	0.012	0.019
rs905938	1	154991389	C	T	0.015	0.002	0.037	0.014	0.036	0.019	0.037	0.018
rs6695119	1	155739430	T	C	0.041	0.006	0.005	0.045	0.038	0.059	-0.010	0.057
rs4414033	1	156406853	A	G	0.013	0.002	-0.010	0.013	-0.014	0.017	-0.010	0.017
rs10733051	1	167280354	A	G	0.010	0.002	0.011	0.012	0.009	0.016	0.006	0.016
rs16864515	1	171435542	A	C	0.019	0.003	-0.024	0.021	-0.050	0.027	-0.001	0.027
rs13375205	1	173947191	A	G	0.019	0.003	0.000	0.019	0.004	0.025	-0.005	0.024
rs12564992	1	174478100	G	A	0.020	0.003	-0.002	0.019	0.009	0.025	-0.009	0.025
rs6691857	1	174885129	C	T	0.035	0.005	0.011	0.036	-0.008	0.046	0.016	0.046
rs11581304	1	177383443	C	T	0.018	0.003	0.014	0.021	-0.017	0.027	0.045	0.027
rs543874	1	177889480	G	A	0.048	0.002	-0.027	0.016	-0.004	0.020	-0.045	0.020
rs10920678	1	190239907	A	G	0.016	0.002	-0.002	0.013	0.003	0.016	0.006	0.016
rs645482	1	191386639	A	G	0.011	0.002	-0.019	0.014	-0.009	0.017	-0.022	0.017
rs12041258	1	195047936	T	C	0.015	0.002	0.007	0.015	0.014	0.019	0.007	0.019
rs6676084	1	197094030	C	T	0.012	0.002	0.028	0.013	0.005	0.017	0.041	0.017
rs2820311	1	201841476	G	A	0.024	0.002	0.023	0.013	0.020	0.017	0.027	0.017
rs9077	1	202116238	G	A	0.014	0.002	-0.006	0.014	-0.011	0.017	-0.005	0.017
rs823074	1	205774839	T	C	0.011	0.002	-0.035	0.013	-0.028	0.016	-0.049	0.016
rs17014375	1	209543560	G	T	0.017	0.003	-0.005	0.018	-0.012	0.024	0.000	0.023
rs6661316	1	210095527	T	C	0.011	0.002	0.000	0.013	0.012	0.016	-0.013	0.016
rs11118308	1	219633869	A	G	0.010	0.002	0.019	0.013	0.019	0.016	0.022	0.016
rs10915840	1	225668524	G	A	0.012	0.002	0.015	0.014	0.034	0.018	0.009	0.018
rs2491864	1	242986063	A	G	0.014	0.002	-0.015	0.015	0.000	0.019	-0.029	0.019
rs946824	1	243684019	T	C	0.021	0.003	-0.027	0.018	-0.033	0.024	-0.016	0.023
rs13021737	2	632348	G	A	0.057	0.002	-0.018	0.016	-0.004	0.021	-0.027	0.021
rs10929925	2	6155557	C	A	0.014	0.002	0.027	0.013	0.022	0.016	0.026	0.016
rs10182181	2	25150296	G	A	0.033	0.002	0.081	0.012	0.107	0.016	0.057	0.016
rs12468863	2	26940294	C	T	0.015	0.002	0.006	0.012	-0.013	0.016	0.022	0.016
rs7567655	2	28273595	G	A	0.027	0.005	0.053	0.034	0.030	0.043	0.080	0.043
rs4372836	2	28973883	T	C	0.014	0.002	-0.018	0.013	-0.017	0.017	-0.010	0.017
rs17327461	2	35512183	T	C	0.013	0.002	-0.006	0.012	-0.006	0.016	-0.011	0.016
rs17019087	2	36783599	C	T	0.011	0.002	-0.001	0.013	0.006	0.017	0.003	0.016
rs4670627	2	37046711	T	C	0.011	0.002	0.008	0.013	0.003	0.017	0.011	0.016
rs6741690	2	40291593	A	G	0.012	0.002	-0.002	0.014	0.006	0.018	-0.007	0.018
rs2063177	2	41712849	A	G	0.012	0.002	0.029	0.013	0.034	0.017	0.030	0.016

rs4953577	2	42935961	T	C	0.010	0.002	0.000	0.012	0.018	0.016	-0.007	0.016
rs13425435	2	44776597	A	C	0.012	0.002	-0.027	0.013	-0.016	0.017	-0.028	0.017
rs13012099	2	47010742	G	A	0.014	0.002	-0.005	0.013	0.012	0.017	-0.014	0.017
rs7561278	2	48954905	T	C	0.016	0.002	0.001	0.015	-0.007	0.020	0.005	0.019
rs930295	2	50233352	A	C	0.021	0.002	-0.012	0.017	-0.003	0.022	-0.030	0.021
rs13406839	2	50735433	A	G	0.013	0.002	0.003	0.013	-0.004	0.016	0.001	0.016
rs3806572	2	55238677	G	A	0.015	0.002	0.009	0.014	0.043	0.018	-0.016	0.018
rs13432055	2	56603985	C	T	0.012	0.002	0.019	0.014	0.014	0.018	0.029	0.018
rs1345942	2	57335044	C	T	0.010	0.002	0.012	0.013	0.017	0.017	0.008	0.016
rs1106090	2	58068741	G	A	0.013	0.002	-0.021	0.013	-0.011	0.016	-0.028	0.016
rs4671328	2	58935282	T	G	0.022	0.002	0.002	0.013	0.019	0.016	-0.007	0.016
rs12053103	2	59540594	A	G	0.012	0.002	-0.008	0.013	-0.014	0.016	-0.003	0.016
rs12476772	2	60203917	A	C	0.012	0.002	-0.033	0.013	-0.039	0.017	-0.040	0.017
rs2195086	2	60814466	G	T	0.013	0.002	-0.020	0.018	-0.034	0.023	-0.003	0.022
rs13417156	2	62848319	C	T	0.014	0.002	0.005	0.013	0.007	0.017	0.002	0.016
rs12477088	2	67841326	T	C	0.015	0.002	0.026	0.013	0.009	0.016	0.053	0.016
rs7607351	2	69562127	T	C	0.012	0.002	-0.008	0.013	-0.012	0.016	-0.013	0.016
rs934515	2	79482643	A	G	0.019	0.003	0.004	0.019	0.016	0.025	-0.009	0.025
rs1371108	2	81816251	A	C	0.012	0.002	0.002	0.013	0.014	0.017	-0.012	0.017
rs7557796	2	86766153	T	C	0.016	0.002	-0.001	0.013	0.009	0.017	-0.009	0.017
rs4556997	2	100814858	A	C	0.020	0.002	-0.035	0.018	-0.008	0.023	-0.074	0.023
rs6707445	2	104420858	A	G	0.013	0.002	0.006	0.013	0.000	0.016	0.014	0.016
rs10197031	2	105454590	C	T	0.017	0.002	-0.011	0.014	-0.006	0.018	-0.011	0.018
rs731834	2	113957198	A	C	0.011	0.002	-0.046	0.012	-0.058	0.016	-0.030	0.016
rs4954638	2	137435455	A	C	0.012	0.002	-0.011	0.014	-0.016	0.018	-0.001	0.018
rs17551974	2	142293146	C	A	0.014	0.002	0.001	0.016	0.028	0.021	-0.029	0.020
rs2890652	2	142959931	C	T	0.017	0.002	0.024	0.017	0.010	0.022	0.018	0.022
rs6710871	2	143960593	A	G	0.018	0.002	0.005	0.018	-0.046	0.023	0.047	0.023
rs7560871	2	145616899	A	G	0.022	0.003	-0.108	0.024	-0.117	0.032	-0.100	0.031
rs429343	2	147903382	A	G	0.015	0.002	0.021	0.013	0.016	0.016	0.032	0.016
rs2652432	2	155734955	G	T	0.013	0.002	-0.021	0.016	-0.027	0.021	-0.023	0.021
rs16839578	2	156629693	C	T	0.011	0.002	-0.013	0.013	-0.023	0.017	-0.006	0.017
rs10198345	2	157109395	C	T	0.011	0.002	0.002	0.013	0.005	0.017	0.011	0.017
rs3764835	2	159519368	G	A	0.014	0.002	-0.023	0.017	-0.015	0.022	-0.015	0.022
rs12692596	2	161265910	T	C	0.011	0.002	-0.034	0.013	-0.020	0.017	-0.039	0.016
rs10192119	2	164581241	G	T	0.017	0.002	0.001	0.017	-0.012	0.022	0.013	0.021
rs11677541	2	165429235	G	A	0.012	0.002	-0.017	0.012	-0.010	0.016	-0.025	0.016
rs3769948	2	166186923	A	G	0.013	0.002	-0.022	0.014	-0.020	0.019	-0.025	0.018
rs535533	2	166959505	C	T	0.010	0.002	0.008	0.013	0.007	0.016	0.004	0.016
rs6738445	2	172599615	C	T	0.013	0.002	-0.010	0.014	-0.007	0.018	-0.020	0.018
rs7573263	2	174980833	T	C	0.014	0.002	-0.010	0.013	-0.007	0.016	-0.013	0.016
rs1528435	2	181550962	T	C	0.016	0.002	0.008	0.013	0.014	0.017	-0.001	0.016
rs2029085	2	187207393	G	A	0.016	0.003	-0.031	0.020	-0.034	0.026	-0.023	0.026
rs10497810	2	198895732	C	T	0.017	0.002	0.026	0.016	-0.025	0.020	0.066	0.021
rs4482463	2	205375909	C	A	0.033	0.003	0.010	0.023	0.004	0.030	0.006	0.029
rs6435277	2	206087701	G	A	0.011	0.002	0.012	0.013	0.015	0.016	0.004	0.016
rs12989476	2	207197155	T	C	0.013	0.002	0.012	0.013	0.027	0.017	-0.006	0.017
rs1263618	2	207956108	C	T	0.012	0.002	0.006	0.013	0.007	0.017	0.000	0.017
rs17203016	2	208255518	G	A	0.015	0.002	0.008	0.016	-0.018	0.021	0.014	0.020
rs4673553	2	211608379	G	T	0.014	0.002	-0.018	0.012	-0.027	0.016	-0.016	0.016
rs7421089	2	211988412	T	C	0.014	0.002	-0.022	0.014	-0.019	0.018	-0.031	0.017

rs16846136	2	212291371	A	C	0.013	0.002	0.034	0.014	0.015	0.018	0.048	0.018
rs7599312	2	213413231	G	A	0.019	0.002	-0.022	0.014	-0.018	0.018	-0.017	0.018
rs7607369	2	219279097	A	G	0.012	0.002	0.011	0.013	0.030	0.016	-0.008	0.016
rs11889536	2	220163543	A	G	0.019	0.002	0.010	0.017	-0.012	0.022	0.023	0.022
rs4500930	2	228985505	T	C	0.016	0.002	-0.016	0.013	0.001	0.017	-0.029	0.017
rs2162524	2	230817437	C	T	0.016	0.002	-0.012	0.013	-0.009	0.017	-0.012	0.017
rs4663629	2	236801872	A	G	0.013	0.002	0.001	0.015	0.004	0.019	0.003	0.019
rs7652415	3	9505238	T	C	0.016	0.003	0.022	0.018	0.022	0.023	0.025	0.023
rs17776719	3	11640481	G	A	0.017	0.003	-0.029	0.017	-0.083	0.023	0.010	0.022
rs10510419	3	12426936	G	T	0.018	0.002	0.026	0.018	0.014	0.023	0.042	0.022
rs2600226	3	12928762	C	T	0.012	0.002	0.001	0.013	-0.005	0.017	-0.004	0.017
rs9845966	3	13433158	T	G	0.011	0.002	0.005	0.012	-0.009	0.016	0.014	0.016
rs11128760	3	15873407	A	G	0.011	0.002	-0.010	0.013	-0.015	0.016	-0.001	0.016
rs4858193	3	20441050	T	C	0.013	0.002	0.009	0.014	0.021	0.018	0.010	0.018
rs6804842	3	25106437	G	A	0.016	0.002	0.003	0.013	0.008	0.016	-0.004	0.016
rs11921432	3	35117776	C	T	0.018	0.003	0.005	0.020	-0.026	0.026	0.032	0.025
rs11129662	3	35696096	G	A	0.012	0.002	0.019	0.013	0.027	0.017	0.010	0.017
rs13072731	3	38533335	C	A	0.011	0.002	-0.008	0.013	-0.016	0.016	-0.003	0.016
rs9814633	3	41310470	A	G	0.012	0.002	0.008	0.013	0.011	0.017	0.004	0.017
rs33485	3	42417982	C	T	0.016	0.002	0.005	0.014	-0.002	0.019	0.007	0.018
rs3852012	3	44045981	G	A	0.013	0.002	0.000	0.013	0.016	0.017	-0.018	0.017
rs4683096	3	45374496	T	G	0.012	0.002	-0.018	0.012	-0.008	0.016	-0.031	0.016
rs11716779	3	47606215	G	A	0.013	0.002	-0.003	0.014	-0.005	0.018	-0.001	0.018
rs11710798	3	48570686	A	C	0.017	0.003	-0.099	0.021	-0.113	0.026	-0.084	0.026
rs1800668	3	49395757	G	A	0.014	0.002	-0.152	0.013	-0.166	0.017	-0.141	0.017
rs11713193	3	49924424	A	G	0.024	0.002	-0.079	0.012	-0.080	0.016	-0.086	0.016
rs1034405	3	50597092	A	G	0.016	0.003	0.009	0.019	-0.001	0.024	0.028	0.024
rs6787805	3	51204788	G	A	0.017	0.002	0.008	0.019	0.017	0.024	0.006	0.024
rs13090011	3	51728573	A	G	0.015	0.002	0.014	0.017	0.003	0.022	0.027	0.021
rs353547	3	52268866	T	C	0.012	0.002	-0.017	0.013	-0.024	0.017	-0.011	0.016
rs2710323	3	52815905	C	T	0.014	0.002	-0.014	0.012	-0.005	0.016	-0.016	0.016
rs2680648	3	53777176	T	C	0.016	0.002	0.030	0.015	0.013	0.019	0.048	0.019
rs12488237	3	56114861	C	T	0.024	0.004	-0.042	0.028	-0.038	0.036	-0.030	0.035
rs2365389	3	61236462	C	T	0.017	0.002	-0.009	0.013	-0.016	0.016	-0.003	0.016
rs1911746	3	62100840	T	C	0.012	0.002	0.009	0.015	0.002	0.019	0.021	0.019
rs1452075	3	62481063	T	C	0.014	0.002	-0.014	0.014	-0.001	0.018	-0.027	0.018
rs17831815	3	66437086	C	T	0.011	0.002	0.005	0.013	0.016	0.017	-0.004	0.017
rs11915371	3	70539559	C	A	0.015	0.002	0.007	0.015	0.032	0.020	-0.028	0.019
rs1523768	3	77667044	G	A	0.011	0.002	0.014	0.013	0.016	0.017	0.010	0.017
rs6419734	3	78458928	T	C	0.017	0.003	-0.009	0.017	0.011	0.023	-0.022	0.022
rs328049	3	78985805	A	G	0.010	0.002	0.019	0.013	0.028	0.016	0.011	0.016
rs6781254	3	80649139	T	C	0.011	0.002	-0.006	0.014	-0.017	0.018	-0.007	0.017
rs3849570	3	81792112	A	C	0.013	0.002	0.004	0.013	-0.015	0.017	0.022	0.017
rs716764	3	82646519	T	C	0.018	0.002	0.002	0.017	-0.001	0.022	-0.011	0.021
rs9827823	3	84221774	T	C	0.019	0.002	0.008	0.017	0.007	0.022	0.015	0.022
rs7628129	3	85095897	C	T	0.015	0.002	-0.022	0.012	-0.014	0.016	-0.036	0.016
rs2122042	3	85866335	T	G	0.024	0.002	-0.062	0.015	-0.050	0.019	-0.078	0.019
rs1006896	3	88104411	A	C	0.023	0.003	0.005	0.020	-0.025	0.026	0.023	0.025
rs13072412	3	88749998	C	A	0.011	0.002	0.012	0.012	0.017	0.016	0.002	0.016
rs4857329	3	94036952	A	G	0.020	0.002	0.015	0.012	0.023	0.016	0.001	0.016
rs1436343	3	104606130	G	A	0.014	0.002	-0.001	0.013	0.001	0.016	-0.002	0.016

rs13317489	3	107280241	A	G	0.013	0.002	-0.036	0.016	-0.064	0.021	-0.012	0.021
rs7640424	3	107820063	C	T	0.014	0.002	0.020	0.014	0.015	0.018	0.031	0.017
rs13085471	3	108359880	T	C	0.011	0.002	-0.027	0.013	-0.021	0.016	-0.029	0.016
rs17619973	3	114417675	A	G	0.020	0.003	0.018	0.024	0.023	0.031	0.017	0.031
rs2903971	3	116935744	T	G	0.015	0.002	-0.015	0.016	-0.023	0.021	-0.009	0.020
rs779206	3	118023515	G	A	0.013	0.002	0.006	0.014	0.028	0.018	-0.013	0.018
rs12629015	3	119618053	A	G	0.014	0.002	0.011	0.016	-0.008	0.021	0.019	0.021
rs10668	3	123211064	G	T	0.013	0.002	-0.015	0.014	-0.005	0.018	-0.022	0.017
rs2270778	3	124692689	C	T	0.010	0.002	0.034	0.013	0.036	0.017	0.032	0.016
rs9848399	3	125205106	A	G	0.016	0.003	0.000	0.019	0.011	0.025	-0.016	0.024
rs1320903	3	131758077	A	G	0.022	0.002	-0.006	0.013	0.013	0.017	-0.015	0.017
rs10935143	3	134665159	G	A	0.011	0.002	-0.004	0.012	-0.006	0.016	-0.010	0.016
rs13079205	3	135800693	G	A	0.015	0.002	-0.021	0.014	-0.016	0.018	-0.027	0.018
rs12630999	3	136300927	A	G	0.018	0.002	-0.015	0.014	-0.018	0.018	-0.004	0.018
rs1199334	3	138091140	A	G	0.014	0.002	-0.019	0.016	-0.008	0.020	-0.024	0.020
rs16851483	3	141275436	T	G	0.037	0.004	0.009	0.025	-0.002	0.032	0.023	0.032
rs171390	3	154038412	C	T	0.015	0.002	-0.004	0.013	0.010	0.016	-0.013	0.016
rs6441080	3	156298935	A	G	0.015	0.002	-0.009	0.017	-0.014	0.022	0.003	0.022
rs13081038	3	156950732	G	A	0.012	0.002	0.006	0.013	0.002	0.017	0.011	0.017
rs827092	3	157985182	T	C	0.013	0.002	0.023	0.013	0.023	0.016	0.025	0.016
rs1476322	3	161446055	A	G	0.010	0.002	-0.004	0.012	-0.015	0.016	0.009	0.016
rs8192675	3	170724883	C	T	0.015	0.002	-0.009	0.014	-0.009	0.018	-0.011	0.017
rs488029	3	173119378	A	G	0.015	0.002	0.001	0.013	0.005	0.016	-0.008	0.016
rs9844274	3	173666966	C	T	0.010	0.002	0.009	0.014	0.008	0.018	0.010	0.018
rs3860517	3	180804471	A	G	0.011	0.002	-0.027	0.013	-0.010	0.017	-0.034	0.017
rs6443750	3	181329682	C	T	0.015	0.002	0.031	0.018	0.032	0.024	0.030	0.023
rs16833232	3	182262873	C	T	0.011	0.002	-0.014	0.013	-0.013	0.017	-0.013	0.017
rs263041	3	183522231	A	G	0.012	0.002	-0.003	0.013	-0.013	0.017	0.005	0.016
rs2293605	3	184044433	C	T	0.017	0.003	0.028	0.020	0.036	0.026	0.015	0.025
rs1516725	3	185824004	C	T	0.036	0.002	-0.029	0.018	-0.031	0.023	-0.038	0.023
rs4677812	3	194863794	C	A	0.014	0.002	0.007	0.014	0.015	0.018	0.003	0.017
rs6764533	3	196088464	A	G	0.012	0.002	-0.038	0.013	-0.041	0.017	-0.039	0.017
rs2051559	4	3298800	C	T	0.018	0.003	0.006	0.018	0.024	0.023	-0.002	0.023
rs2320726	4	18383743	G	A	0.014	0.002	-0.010	0.012	-0.005	0.016	-0.018	0.016
rs6849518	4	20120274	T	C	0.017	0.003	0.006	0.019	0.004	0.025	-0.007	0.024
rs6850639	4	21010996	T	C	0.012	0.002	0.000	0.016	0.008	0.020	-0.012	0.020
rs6841761	4	25423538	G	T	0.013	0.002	0.019	0.012	0.038	0.016	0.006	0.016
rs6448587	4	28561990	A	C	0.017	0.002	0.005	0.016	0.014	0.021	-0.006	0.020
rs10007906	4	31023610	A	C	0.013	0.002	-0.003	0.013	0.001	0.017	-0.014	0.017
rs12502727	4	38344189	G	A	0.016	0.003	0.008	0.020	0.038	0.026	-0.014	0.025
rs3209570	4	38699657	G	A	0.014	0.002	0.049	0.013	0.063	0.017	0.032	0.016
rs10009336	4	44480783	C	T	0.014	0.002	-0.017	0.017	-0.032	0.022	-0.004	0.021
rs10938397	4	45182527	G	A	0.032	0.002	-0.006	0.013	-0.005	0.016	-0.003	0.016
rs2768950	4	49064487	A	G	0.012	0.002	-0.005	0.014	-0.002	0.018	0.004	0.018
rs784944	4	52927229	A	G	0.012	0.002	-0.008	0.014	0.004	0.018	-0.008	0.018
rs2192158	4	55505360	A	G	0.013	0.002	0.010	0.012	0.033	0.016	-0.014	0.016
rs11945861	4	65700865	G	A	0.015	0.002	0.030	0.015	0.031	0.019	0.040	0.019
rs17001561	4	77096118	A	G	0.015	0.002	0.021	0.017	0.017	0.022	0.034	0.022
rs7674623	4	80794681	T	C	0.014	0.002	0.005	0.016	0.005	0.020	0.006	0.020
rs4148155	4	89054667	A	G	0.019	0.003	-0.003	0.020	-0.023	0.026	0.014	0.025
rs2169399	4	91244218	C	T	0.011	0.002	0.011	0.012	0.005	0.016	0.017	0.016

rs1485038	4	94409429	T	C	0.014	0.002	-0.009	0.016	-0.009	0.020	-0.016	0.020
rs7685048	4	95027784	C	T	0.010	0.002	-0.040	0.012	-0.042	0.016	-0.026	0.016
rs1863652	4	95991417	G	A	0.012	0.002	0.011	0.013	0.009	0.017	0.000	0.017
rs2850969	4	102183594	C	T	0.017	0.002	0.019	0.017	0.046	0.022	0.011	0.022
rs13149344	4	102686178	G	A	0.012	0.002	0.032	0.015	0.036	0.019	0.031	0.019
rs13107325	4	103188709	T	C	0.047	0.003	0.113	0.023	0.201	0.028	0.033	0.030
rs223391	4	103748224	G	A	0.013	0.002	-0.006	0.016	0.043	0.021	-0.049	0.020
rs326889	4	112713436	C	T	0.013	0.002	0.006	0.013	0.027	0.016	-0.006	0.016
rs4834272	4	113313986	C	T	0.012	0.002	0.004	0.013	-0.003	0.017	0.013	0.017
rs7694732	4	115124089	A	G	0.010	0.002	0.015	0.012	0.039	0.016	-0.004	0.016
rs4864201	4	130731284	T	C	0.014	0.002	-0.028	0.013	-0.026	0.017	-0.024	0.017
rs1296328	4	137083193	A	C	0.018	0.002	0.011	0.013	0.004	0.017	0.015	0.016
rs769657	4	140877659	A	G	0.014	0.002	-0.012	0.013	0.013	0.017	-0.026	0.017
rs331949	4	143663206	C	T	0.011	0.002	-0.009	0.013	-0.001	0.017	-0.017	0.016
rs6852276	4	145261999	G	A	0.011	0.002	0.017	0.013	0.023	0.016	0.015	0.016
rs1455137	4	145986668	C	A	0.011	0.002	-0.001	0.013	-0.012	0.017	0.002	0.016
rs11733337	4	147372978	T	G	0.014	0.002	0.017	0.014	0.020	0.018	0.015	0.018
rs6827083	4	153075491	G	A	0.010	0.002	0.006	0.013	0.021	0.016	-0.013	0.016
rs13110266	4	162129844	G	A	0.012	0.002	0.008	0.013	0.000	0.016	0.015	0.016
rs17538472	4	163038241	T	C	0.013	0.002	0.039	0.016	0.033	0.020	0.043	0.020
rs1522569	4	171632637	T	G	0.016	0.002	0.000	0.016	-0.014	0.020	0.017	0.020
rs1158684	4	173584086	A	G	0.010	0.002	-0.012	0.012	0.004	0.016	-0.016	0.016
rs7683836	4	180167906	G	A	0.011	0.002	0.014	0.013	-0.004	0.016	0.026	0.016
rs16871902	5	3488462	A	G	0.013	0.002	-0.034	0.013	-0.025	0.016	-0.035	0.016
rs4518345	5	27185904	G	A	0.012	0.002	0.011	0.014	-0.001	0.018	0.023	0.018
rs7730004	5	43191033	T	C	0.015	0.002	0.009	0.013	0.011	0.017	0.013	0.017
rs13168660	5	50412012	A	G	0.017	0.003	0.025	0.019	0.058	0.024	0.004	0.024
rs12189178	5	50914726	T	C	0.036	0.005	-0.076	0.035	-0.082	0.045	-0.077	0.044
rs4865796	5	53272664	G	A	0.010	0.002	0.000	0.013	0.016	0.017	-0.015	0.017
rs6449532	5	60715446	C	T	0.013	0.002	0.032	0.013	0.021	0.017	0.041	0.017
rs1503526	5	63020706	C	T	0.014	0.002	0.003	0.012	0.012	0.016	-0.016	0.016
rs2367112	5	64168193	T	G	0.012	0.002	-0.002	0.012	-0.011	0.016	0.010	0.016
rs460799	5	66191971	G	A	0.012	0.002	0.013	0.014	-0.001	0.018	0.024	0.018
rs13153166	5	71494931	A	C	0.023	0.004	0.017	0.030	-0.016	0.038	0.055	0.038
rs2973564	5	73151033	A	G	0.011	0.002	0.023	0.014	0.018	0.018	0.025	0.017
rs4621537	5	74362222	A	G	0.020	0.002	0.015	0.013	0.003	0.017	0.022	0.016
rs2307111	5	75003678	T	C	0.027	0.002	0.009	0.013	-0.011	0.016	0.030	0.016
rs252749	5	77389973	G	A	0.012	0.002	0.007	0.014	-0.004	0.019	0.023	0.018
rs10942267	5	80841914	A	G	0.016	0.002	0.003	0.013	-0.002	0.017	0.004	0.017
rs10942476	5	86172206	G	A	0.010	0.002	-0.026	0.012	-0.009	0.016	-0.040	0.016
rs323781	5	86752616	C	A	0.038	0.005	-0.030	0.037	-0.042	0.047	-0.019	0.047
rs10474271	5	87454270	T	C	0.014	0.002	0.010	0.015	0.032	0.019	-0.004	0.019
rs16903285	5	87978252	C	T	0.033	0.003	-0.031	0.018	-0.017	0.024	-0.037	0.023
rs16867703	5	88799143	G	T	0.014	0.002	0.011	0.013	0.005	0.016	0.010	0.016
rs2009416	5	92415111	C	T	0.012	0.002	0.004	0.013	0.013	0.017	0.002	0.017
rs159032	5	94206202	T	C	0.013	0.002	-0.003	0.014	-0.005	0.019	-0.003	0.018
rs7713317	5	95716722	G	A	0.016	0.002	0.002	0.014	0.007	0.018	-0.009	0.017
rs4703019	5	102053558	A	G	0.010	0.002	-0.029	0.013	-0.008	0.016	-0.042	0.016
rs11739877	5	105876806	T	C	0.012	0.002	0.000	0.013	0.012	0.017	-0.010	0.016
rs13168288	5	106385815	A	G	0.013	0.002	0.006	0.015	0.008	0.019	0.006	0.019
rs40067	5	107439012	G	A	0.027	0.002	0.022	0.016	0.027	0.021	0.007	0.021

rs9326846	5	111301546	G	A	0.011	0.002	-0.014	0.013	-0.012	0.017	-0.007	0.017
rs12109548	5	112452241	T	C	0.010	0.002	0.017	0.013	0.025	0.017	0.008	0.016
rs1402025	5	113987898	C	T	0.012	0.002	0.016	0.015	0.010	0.019	0.024	0.019
rs6594967	5	115710803	T	C	0.011	0.002	-0.011	0.013	0.016	0.017	-0.032	0.017
rs3511114	5	119368666	T	C	0.011	0.002	0.012	0.012	0.004	0.016	0.014	0.016
rs1363695	5	130378027	C	T	0.013	0.002	0.055	0.015	0.093	0.020	0.025	0.019
rs329122	5	133864599	G	A	0.013	0.002	-0.034	0.013	-0.036	0.016	-0.026	0.016
rs7716275	5	137631073	G	T	0.013	0.002	0.042	0.016	0.035	0.021	0.042	0.020
rs13174863	5	139080745	G	A	0.019	0.002	0.007	0.018	0.018	0.023	-0.015	0.023
rs2074613	5	139714564	T	C	0.011	0.002	0.004	0.013	-0.009	0.016	0.017	0.016
rs2190788	5	144484261	T	G	0.014	0.002	-0.001	0.013	0.008	0.017	0.001	0.017
rs10066835	5	151254297	T	C	0.043	0.007	0.008	0.048	-0.008	0.062	0.046	0.060
rs294704	5	152519088	G	T	0.011	0.002	-0.015	0.014	-0.032	0.018	0.005	0.018
rs7715256	5	153537893	G	T	0.017	0.002	-0.010	0.013	0.022	0.016	-0.035	0.016
rs17056301	5	158271680	C	T	0.012	0.002	-0.002	0.014	0.005	0.018	-0.013	0.018
rs248139	5	167352783	A	G	0.013	0.002	-0.010	0.015	-0.021	0.020	-0.007	0.020
rs7730898	5	170459675	A	G	0.017	0.002	-0.018	0.014	-0.007	0.018	-0.023	0.018
rs17695092	5	173337853	T	G	0.011	0.002	0.039	0.014	0.063	0.018	0.021	0.017
rs6556301	5	176527577	G	T	0.011	0.002	-0.001	0.013	0.001	0.017	-0.006	0.017
rs9463175	6	9510030	C	T	0.011	0.002	-0.016	0.013	-0.010	0.017	-0.021	0.017
rs2228213	6	12124855	G	A	0.014	0.002	0.011	0.013	-0.001	0.017	0.026	0.016
rs9367368	6	13189275	T	C	0.012	0.002	0.006	0.014	0.012	0.018	0.001	0.017
rs17805532	6	18497348	T	C	0.023	0.004	0.011	0.027	0.032	0.034	-0.010	0.034
rs11753081	6	20705590	T	G	0.014	0.002	-0.027	0.016	-0.053	0.021	-0.010	0.021
rs7760082	6	21919387	G	A	0.012	0.002	-0.015	0.013	-0.023	0.017	-0.008	0.017
rs1511471	6	23868594	A	G	0.011	0.002	-0.016	0.013	-0.004	0.017	-0.027	0.017
rs3813680	6	24848086	A	G	0.014	0.002	0.005	0.017	0.025	0.023	-0.007	0.022
rs1150659	6	26100023	G	A	0.014	0.002	-0.024	0.015	-0.021	0.019	-0.025	0.019
rs4711122	6	26758479	C	T	0.013	0.002	-0.022	0.015	0.005	0.019	-0.039	0.018
rs853681	6	28296650	A	C	0.014	0.002	-0.011	0.017	-0.031	0.022	0.005	0.022
rs2523586	6	31327435	T	G	0.015	0.002	0.048	0.015	0.022	0.019	0.057	0.019
rs498240	6	31892592	G	A	0.027	0.003	0.009	0.025	-0.111	0.031	0.116	0.033
rs6933607	6	33743997	G	A	0.016	0.002	-0.007	0.015	0.007	0.019	-0.025	0.019
rs2744974	6	34579431	T	C	0.025	0.002	-0.022	0.013	-0.004	0.017	-0.032	0.017
rs732594	6	35206553	C	A	0.018	0.002	0.001	0.013	-0.016	0.017	0.016	0.017
rs17757975	6	38214150	T	C	0.014	0.002	-0.005	0.018	0.002	0.023	-0.013	0.022
rs7748777	6	41133806	A	G	0.011	0.002	-0.013	0.013	0.001	0.016	-0.023	0.016
rs6901756	6	41825590	T	C	0.015	0.003	-0.024	0.019	-0.010	0.024	-0.044	0.024
rs9349239	6	42676480	A	G	0.012	0.002	-0.019	0.012	-0.026	0.016	-0.018	0.016
rs998584	6	43757896	C	A	0.013	0.002	0.006	0.013	0.005	0.017	-0.005	0.016
rs6903387	6	46348834	A	G	0.013	0.002	-0.022	0.013	-0.016	0.016	-0.019	0.016
rs17665162	6	50275258	C	T	0.029	0.004	0.026	0.027	0.027	0.036	0.020	0.035
rs987237	6	50803050	G	A	0.041	0.002	0.003	0.016	0.010	0.021	0.001	0.020
rs2709671	6	51204404	C	T	0.012	0.002	0.003	0.012	0.012	0.016	-0.005	0.016
rs4711986	6	51789259	A	G	0.014	0.002	-0.002	0.013	-0.006	0.017	-0.010	0.017
rs9296723	6	53752062	C	T	0.011	0.002	0.003	0.013	0.012	0.017	-0.003	0.016
rs9475173	6	55013291	A	G	0.011	0.002	-0.025	0.013	-0.013	0.017	-0.039	0.017
rs1020548	6	56810539	G	A	0.013	0.002	-0.023	0.016	-0.034	0.021	-0.002	0.021
rs7742595	6	64161733	T	C	0.011	0.002	0.034	0.012	0.028	0.016	0.040	0.016
rs2757763	6	70222480	G	A	0.012	0.002	0.023	0.014	0.027	0.018	0.025	0.018
rs9688431	6	73922654	T	C	0.023	0.004	0.015	0.026	0.028	0.033	0.007	0.033

rs9294260	6	83433228	A	G	0.015	0.002	-0.024	0.013	-0.028	0.016	-0.035	0.016
rs1853639	6	87606842	G	A	0.011	0.002	-0.001	0.013	-0.015	0.017	0.007	0.017
rs16882001	6	90322237	G	A	0.027	0.004	-0.021	0.028	-0.022	0.036	-0.007	0.036
rs7771567	6	97846571	G	A	0.015	0.002	-0.010	0.013	-0.036	0.017	0.008	0.017
rs901630	6	98539519	C	T	0.015	0.002	0.005	0.013	-0.004	0.016	0.002	0.016
rs17789218	6	100600097	C	T	0.013	0.002	0.017	0.015	0.022	0.019	0.023	0.019
rs13208757	6	101175014	T	C	0.011	0.002	-0.014	0.012	-0.023	0.016	-0.014	0.016
rs155510	6	104805862	T	G	0.017	0.002	0.009	0.016	0.005	0.020	0.013	0.020
rs3800229	6	108996963	T	G	0.018	0.002	0.004	0.014	-0.010	0.018	0.017	0.017
rs9387640	6	119508871	C	T	0.012	0.002	0.001	0.013	0.006	0.017	0.000	0.016
rs2357760	6	120213880	A	G	0.015	0.002	-0.003	0.013	0.004	0.017	-0.014	0.017
rs1871329	6	124911534	G	A	0.013	0.002	-0.005	0.015	0.012	0.019	-0.017	0.019
rs1159974	6	126090277	C	T	0.011	0.002	0.004	0.013	0.014	0.016	-0.009	0.016
rs6569648	6	130349119	C	T	0.013	0.002	0.010	0.015	-0.006	0.019	0.029	0.019
rs2246012	6	131898208	C	T	0.016	0.002	0.006	0.017	0.004	0.022	0.002	0.022
rs13201877	6	137675541	G	A	0.015	0.002	0.001	0.018	0.011	0.024	-0.015	0.023
rs11754747	6	141494602	T	C	0.012	0.002	-0.014	0.015	-0.020	0.019	-0.007	0.019
rs765875	6	143185683	C	T	0.012	0.002	-0.005	0.012	0.000	0.016	-0.019	0.016
rs2185027	6	153381622	C	A	0.014	0.002	0.006	0.014	0.004	0.018	0.009	0.017
rs10499276	6	154309808	T	C	0.017	0.003	0.006	0.019	0.022	0.024	-0.022	0.024
rs9397928	6	156673243	C	T	0.012	0.002	0.008	0.014	0.004	0.018	0.002	0.018
rs487060	6	160774459	T	C	0.011	0.002	0.004	0.012	-0.007	0.016	0.012	0.016
rs13191362	6	163033350	A	G	0.024	0.003	-0.019	0.019	-0.024	0.024	-0.019	0.024
rs9364687	6	163817911	G	T	0.011	0.002	0.009	0.013	0.027	0.016	-0.014	0.016
rs6461115	7	2103668	A	G	0.014	0.002	0.001	0.015	0.006	0.019	-0.008	0.019
rs4722398	7	3125220	T	C	0.016	0.003	-0.006	0.018	-0.043	0.024	0.024	0.023
rs6463489	7	5542513	T	C	0.016	0.003	-0.023	0.021	-0.027	0.027	-0.009	0.026
rs7784465	7	6418275	C	T	0.016	0.003	0.006	0.018	-0.009	0.024	0.019	0.023
rs6968554	7	17287106	G	A	0.010	0.002	0.004	0.013	0.000	0.017	0.016	0.016
rs10263780	7	19778086	G	A	0.016	0.003	0.020	0.018	0.013	0.023	0.029	0.023
rs2158414	7	21491021	T	C	0.010	0.002	-0.001	0.013	-0.007	0.017	0.008	0.017
rs4307239	7	24354300	G	A	0.012	0.002	-0.004	0.013	0.006	0.016	-0.008	0.016
rs11971041	7	26698848	G	A	0.021	0.003	0.002	0.022	0.007	0.028	-0.008	0.028
rs4722672	7	27231762	C	T	0.015	0.002	0.083	0.016	0.054	0.021	0.108	0.021
rs849135	7	28196413	A	G	0.011	0.002	-0.036	0.012	-0.069	0.016	-0.003	0.016
rs215634	7	32369148	A	G	0.015	0.002	0.005	0.013	0.002	0.016	-0.005	0.016
rs2237403	7	39448936	C	T	0.012	0.002	-0.005	0.013	0.001	0.017	-0.014	0.017
rs2289379	7	44804225	C	T	0.014	0.002	-0.041	0.013	-0.042	0.017	-0.032	0.016
rs10269783	7	49616203	A	G	0.013	0.002	0.006	0.013	0.018	0.017	-0.002	0.016
rs3807566	7	50564204	G	T	0.013	0.002	0.012	0.012	0.003	0.016	0.021	0.016
rs726372	7	69320268	G	A	0.011	0.002	0.003	0.013	0.007	0.017	-0.005	0.017
rs4718966	7	70040558	T	C	0.013	0.002	-0.011	0.013	-0.012	0.016	-0.005	0.016
rs4717623	7	71434369	C	T	0.014	0.002	-0.005	0.014	0.007	0.018	-0.009	0.018
rs6964833	7	74101909	C	T	0.016	0.002	-0.056	0.015	-0.063	0.019	-0.051	0.018
rs17207196	7	75101065	C	T	0.022	0.002	-0.040	0.013	-0.035	0.017	-0.052	0.017
rs17685	7	75616105	A	G	0.011	0.002	0.010	0.014	-0.008	0.018	0.024	0.018
rs2245368	7	76608143	C	T	0.026	0.002	0.040	0.018	0.039	0.024	0.045	0.023
rs740157	7	77055885	A	G	0.012	0.002	-0.005	0.013	-0.013	0.016	0.003	0.016
rs1544459	7	77417584	C	T	0.010	0.002	-0.008	0.012	0.004	0.016	-0.021	0.016
rs1852006	7	77829768	G	A	0.016	0.002	-0.006	0.013	0.011	0.017	-0.020	0.017
rs6963840	7	78144371	T	C	0.015	0.002	0.001	0.017	0.041	0.022	-0.036	0.022

rs10259665	7	79061837	A	G	0.011	0.002	-0.027	0.013	-0.010	0.017	-0.041	0.017
rs802460	7	86260816	T	C	0.011	0.002	-0.015	0.013	-0.022	0.017	-0.013	0.017
rs7780752	7	93241640	C	T	0.014	0.002	-0.023	0.013	-0.041	0.017	-0.011	0.017
rs13240600	7	99064466	A	G	0.020	0.002	-0.015	0.017	-0.009	0.022	-0.024	0.022
rs1048303	7	100804140	C	T	0.011	0.002	-0.007	0.013	0.003	0.016	-0.019	0.016
rs11496125	7	103417557	T	C	0.017	0.002	0.022	0.013	0.005	0.016	0.029	0.016
rs1524277	7	109173130	C	T	0.011	0.002	0.002	0.012	0.016	0.016	-0.006	0.016
rs7788008	7	112972483	G	A	0.016	0.002	-0.009	0.013	-0.043	0.016	0.024	0.016
rs12705916	7	113492834	C	T	0.016	0.002	0.015	0.013	0.022	0.017	0.004	0.016
rs2045293	7	114350102	T	C	0.014	0.002	-0.030	0.013	-0.037	0.016	-0.023	0.016
rs1899689	7	121964349	T	C	0.012	0.002	-0.003	0.013	0.012	0.016	-0.015	0.016
rs2283093	7	126721231	T	C	0.013	0.002	0.010	0.015	0.017	0.020	0.000	0.020
rs896183	7	127831580	A	G	0.010	0.002	0.018	0.013	0.026	0.017	0.004	0.017
rs972283	7	130466854	A	G	0.010	0.002	0.027	0.013	0.025	0.016	0.035	0.016
rs7802342	7	137435925	G	T	0.012	0.002	-0.004	0.014	-0.001	0.018	-0.003	0.018
rs7811342	7	138794618	T	C	0.020	0.003	-0.027	0.020	0.016	0.027	-0.052	0.026
rs10243319	7	147674678	T	C	0.011	0.002	-0.015	0.013	-0.033	0.016	-0.013	0.016
rs2907948	7	150638484	G	A	0.014	0.002	-0.005	0.015	0.009	0.019	-0.017	0.018
rs1658820	8	4288577	T	G	0.014	0.002	0.018	0.015	0.020	0.019	0.021	0.019
rs7837587	8	8378992	C	T	0.016	0.002	-0.001	0.012	0.009	0.016	-0.009	0.016
rs1045529	8	8890098	T	C	0.016	0.002	0.009	0.013	0.002	0.016	0.017	0.016
rs615632	8	9796321	C	T	0.017	0.002	0.010	0.013	0.030	0.016	-0.007	0.016
rs6985109	8	10761585	G	A	0.018	0.002	0.016	0.012	0.038	0.016	-0.010	0.016
rs12549150	8	11422936	T	C	0.017	0.002	0.001	0.013	0.008	0.016	-0.006	0.016
rs13263601	8	14095900	C	A	0.015	0.002	0.013	0.013	0.019	0.017	0.007	0.017
rs13278290	8	15560370	T	C	0.012	0.002	-0.010	0.013	-0.014	0.017	-0.011	0.016
rs2616192	8	20668624	T	G	0.013	0.002	-0.005	0.013	0.008	0.017	-0.014	0.017
rs11781222	8	23389571	T	C	0.016	0.002	0.032	0.018	-0.005	0.023	0.059	0.023
rs11784576	8	25661397	T	G	0.011	0.002	-0.023	0.014	-0.014	0.017	-0.036	0.017
rs17446091	8	27167942	C	T	0.012	0.002	0.038	0.015	0.042	0.019	0.033	0.019
rs1982441	8	28021769	T	G	0.018	0.003	0.041	0.018	0.061	0.024	0.022	0.023
rs1421334	8	30865733	A	C	0.013	0.002	0.018	0.013	0.014	0.016	0.020	0.016
rs7826312	8	32400115	C	T	0.010	0.002	-0.019	0.013	-0.025	0.016	-0.027	0.016
rs12545740	8	33455300	A	C	0.011	0.002	0.006	0.013	0.011	0.017	0.004	0.016
rs7844647	8	34503776	T	C	0.012	0.002	-0.001	0.014	-0.012	0.018	0.010	0.018
rs6471941	8	62117973	A	G	0.016	0.002	-0.017	0.017	-0.055	0.022	0.006	0.021
rs705980	8	64727201	C	T	0.011	0.002	0.001	0.012	0.005	0.016	-0.009	0.016
rs16932761	8	67202787	G	A	0.014	0.002	-0.002	0.014	0.013	0.018	0.001	0.018
rs1431659	8	73439070	A	G	0.020	0.002	-0.013	0.014	-0.001	0.018	-0.020	0.018
rs2170382	8	74689288	T	C	0.017	0.003	0.008	0.020	0.022	0.025	-0.014	0.025
rs2926614	8	76301610	C	T	0.019	0.002	-0.022	0.016	0.002	0.021	-0.050	0.020
rs17405819	8	76806584	T	C	0.022	0.002	-0.003	0.014	-0.002	0.017	-0.013	0.017
rs7010763	8	77342772	G	A	0.016	0.002	0.003	0.014	0.015	0.018	-0.004	0.018
rs16907751	8	81375457	C	T	0.021	0.003	-0.009	0.021	-0.009	0.027	-0.024	0.026
rs733594	8	85077686	T	C	0.014	0.002	-0.018	0.014	-0.040	0.018	-0.003	0.018
rs2467210	8	85679207	G	A	0.015	0.002	0.001	0.015	-0.002	0.019	0.009	0.019
rs7006629	8	87519542	T	C	0.011	0.002	-0.021	0.012	-0.023	0.016	-0.024	0.016
rs2174367	8	89408196	G	T	0.012	0.002	-0.003	0.013	-0.002	0.017	0.004	0.017
rs1899898	8	93240419	T	C	0.011	0.002	0.022	0.013	0.028	0.017	0.025	0.017
rs12680842	8	95582606	A	G	0.013	0.002	0.011	0.013	-0.006	0.017	0.024	0.017
rs3134358	8	101958433	T	G	0.013	0.002	-0.008	0.013	0.000	0.016	-0.008	0.016

rs13250058	8	112270826	T	G	0.011	0.002	-0.015	0.013	-0.013	0.017	-0.026	0.017
rs2694047	8	116750548	G	A	0.019	0.002	-0.012	0.015	-0.013	0.019	-0.003	0.018
rs17450772	8	118895712	C	T	0.019	0.003	-0.009	0.020	0.008	0.025	-0.026	0.025
rs12682037	8	132880474	C	T	0.016	0.003	0.009	0.019	0.009	0.025	0.006	0.025
rs16906845	8	138215228	G	A	0.023	0.004	-0.027	0.026	0.002	0.034	-0.057	0.033
rs7357604	8	142629949	G	A	0.011	0.002	-0.023	0.013	-0.005	0.017	-0.039	0.016
rs4072917	8	143300279	A	G	0.012	0.002	0.032	0.013	0.030	0.016	0.031	0.016
rs7042372	9	6959840	A	G	0.012	0.002	-0.002	0.013	-0.014	0.017	0.008	0.017
rs1865341	9	8845911	T	C	0.013	0.002	0.002	0.015	0.011	0.019	-0.005	0.018
rs10118866	9	10119157	T	G	0.012	0.002	0.002	0.015	-0.001	0.019	0.001	0.019
rs1535660	9	10371073	T	C	0.015	0.003	-0.010	0.018	0.003	0.023	-0.029	0.023
rs10959687	9	11280652	A	G	0.012	0.002	0.018	0.012	0.025	0.016	0.010	0.016
rs17820822	9	11831420	T	G	0.014	0.002	0.004	0.013	0.009	0.017	-0.002	0.016
rs13298062	9	13941513	A	G	0.014	0.002	-0.013	0.016	-0.024	0.020	-0.005	0.020
rs7031064	9	14455076	A	G	0.011	0.002	0.021	0.012	0.029	0.016	0.008	0.016
rs4740619	9	15634326	T	C	0.019	0.002	0.001	0.012	-0.001	0.016	0.007	0.016
rs10962549	9	16719445	T	C	0.020	0.002	0.012	0.016	0.011	0.021	0.011	0.021
rs10811901	9	23356935	A	G	0.011	0.002	0.008	0.012	0.026	0.016	-0.014	0.016
rs7874154	9	27777012	C	T	0.013	0.002	-0.023	0.012	-0.023	0.016	-0.024	0.016
rs10968576	9	28414339	G	A	0.025	0.002	0.018	0.013	0.025	0.017	0.015	0.017
rs16914051	9	28943416	C	T	0.015	0.002	-0.013	0.017	0.000	0.022	-0.031	0.022
rs11792311	9	29672405	G	A	0.014	0.002	0.004	0.015	-0.030	0.019	0.028	0.019
rs17720922	9	31030917	T	C	0.013	0.002	0.000	0.016	0.001	0.020	0.002	0.020
rs10971721	9	33827694	C	T	0.020	0.003	-0.030	0.020	-0.022	0.026	-0.034	0.025
rs13290794	9	37183628	G	A	0.014	0.002	-0.003	0.013	-0.008	0.017	-0.001	0.016
rs10746862	9	73780912	G	T	0.012	0.002	0.014	0.013	0.002	0.016	0.027	0.016
rs1634350	9	81334684	A	C	0.012	0.002	-0.002	0.013	0.012	0.017	-0.015	0.016
rs11138313	9	82240968	A	G	0.017	0.003	-0.006	0.021	-0.024	0.027	-0.002	0.027
rs2796456	9	84193487	A	C	0.012	0.002	0.024	0.014	0.026	0.018	0.018	0.018
rs1187352	9	87293457	C	T	0.012	0.002	0.016	0.013	0.020	0.017	0.009	0.017
rs12380880	9	88912765	C	T	0.013	0.002	0.008	0.015	0.006	0.019	0.017	0.019
rs10797115	9	92191256	T	C	0.012	0.002	-0.012	0.013	-0.025	0.016	0.000	0.016
rs7869771	9	94180627	A	C	0.014	0.002	0.026	0.014	0.012	0.018	0.025	0.018
rs9650755	9	96484342	G	A	0.015	0.002	-0.008	0.014	-0.005	0.018	-0.008	0.018
rs420158	9	101477500	C	T	0.012	0.002	0.013	0.015	0.011	0.019	0.017	0.018
rs4989244	9	102100348	G	A	0.011	0.002	0.005	0.013	0.023	0.016	-0.015	0.016
rs9299338	9	103108178	G	A	0.017	0.002	0.024	0.013	0.027	0.017	0.017	0.017
rs10989568	9	104396304	A	G	0.011	0.002	-0.010	0.012	-0.009	0.016	-0.005	0.016
rs7024334	9	109072075	T	G	0.014	0.002	-0.019	0.015	-0.018	0.019	-0.011	0.019
rs6477694	9	111932342	C	T	0.012	0.002	0.022	0.013	0.033	0.017	0.014	0.017
rs1928295	9	120378483	T	C	0.014	0.002	-0.007	0.012	0.006	0.016	-0.025	0.016
rs1327808	9	120896390	G	A	0.013	0.002	-0.039	0.016	-0.038	0.021	-0.028	0.021
rs7865157	9	122631560	T	C	0.018	0.003	-0.019	0.021	-0.036	0.027	0.004	0.026
rs10818810	9	126096522	A	G	0.013	0.002	-0.014	0.013	-0.013	0.017	-0.008	0.016
rs10818938	9	127049237	A	G	0.011	0.002	-0.012	0.013	-0.009	0.016	-0.018	0.016
rs13292976	9	129467340	T	C	0.013	0.002	0.003	0.013	-0.008	0.016	0.005	0.016
rs12005136	9	131059830	C	A	0.019	0.003	-0.003	0.018	-0.005	0.023	0.012	0.022
rs4740383	9	133783566	A	G	0.013	0.002	-0.004	0.013	0.004	0.017	-0.012	0.016
rs11792069	9	140646121	A	G	0.015	0.002	-0.008	0.018	0.012	0.023	-0.017	0.022
rs11251352	10	2585792	G	A	0.011	0.002	-0.009	0.013	0.001	0.016	-0.020	0.016
rs10795422	10	16759312	G	A	0.014	0.002	0.026	0.014	0.014	0.018	0.044	0.017

rs12768319	10	19812754	C	T	0.012	0.002	0.013	0.014	0.021	0.018	0.009	0.018
rs7084454	10	21821274	A	G	0.019	0.002	0.021	0.013	0.011	0.017	0.016	0.017
rs12762034	10	33969931	C	T	0.024	0.003	0.053	0.023	0.057	0.030	0.067	0.029
rs2477017	10	34911879	A	G	0.010	0.002	0.013	0.013	0.039	0.017	-0.003	0.016
rs1937683	10	53679060	T	C	0.011	0.002	0.006	0.013	0.003	0.017	0.010	0.017
rs6479905	10	65315231	G	A	0.013	0.002	-0.021	0.012	-0.021	0.016	-0.012	0.016
rs12098284	10	76047464	T	C	0.018	0.003	0.026	0.018	0.010	0.024	0.045	0.023
rs4745794	10	77534000	G	A	0.011	0.002	0.007	0.013	-0.017	0.016	0.026	0.016
rs11001963	10	78760959	T	C	0.011	0.002	0.018	0.013	0.034	0.016	0.010	0.016
rs7899106	10	87410904	G	A	0.033	0.004	-0.029	0.029	0.011	0.037	-0.075	0.037
rs2114824	10	88119015	G	A	0.013	0.002	-0.005	0.012	-0.024	0.016	0.007	0.016
rs1468069	10	98988759	A	C	0.010	0.002	-0.009	0.013	-0.008	0.017	-0.012	0.017
rs577525	10	99769388	C	T	0.017	0.002	0.023	0.013	0.053	0.016	0.006	0.016
rs17094222	10	102395440	C	T	0.018	0.002	0.000	0.015	-0.002	0.020	0.006	0.020
rs9787495	10	103206115	G	A	0.010	0.002	-0.012	0.013	-0.002	0.016	-0.020	0.016
rs7083450	10	103984060	T	C	0.016	0.002	0.001	0.017	0.016	0.022	-0.015	0.022
rs12411886	10	104685299	A	C	0.027	0.003	-0.013	0.022	-0.015	0.029	0.001	0.029
rs7903146	10	114758349	C	T	0.018	0.002	0.012	0.014	0.007	0.018	0.015	0.017
rs10886017	10	118672531	A	C	0.015	0.002	-0.038	0.015	-0.041	0.019	-0.039	0.018
rs4523610	10	122069448	C	T	0.012	0.002	-0.017	0.015	-0.014	0.019	-0.022	0.019
rs845084	10	125220036	A	G	0.014	0.002	0.002	0.014	0.015	0.018	0.000	0.018
rs17636031	10	126594078	C	T	0.016	0.002	-0.016	0.015	-0.028	0.019	0.004	0.019
rs4880341	10	133992689	C	T	0.012	0.002	-0.005	0.013	-0.004	0.016	-0.010	0.016
rs4963120	11	825777	T	C	0.013	0.002	0.032	0.013	0.011	0.016	0.059	0.016
rs10840606	11	2234690	G	A	0.016	0.002	0.047	0.016	0.057	0.021	0.035	0.021
rs4929923	11	8639200	C	T	0.018	0.002	0.007	0.013	0.018	0.017	-0.008	0.016
rs1037587	11	11796727	T	C	0.011	0.002	0.028	0.013	0.036	0.016	0.018	0.016
rs4757144	11	13331226	A	G	0.017	0.002	0.001	0.013	-0.007	0.016	0.004	0.016
rs1557765	11	17403639	C	T	0.012	0.002	0.028	0.013	0.043	0.016	0.010	0.016
rs6265	11	27679916	C	T	0.041	0.002	0.008	0.016	-0.026	0.020	0.030	0.020
rs481554	11	28721187	G	A	0.011	0.002	-0.027	0.013	-0.022	0.017	-0.037	0.017
rs2467594	11	29224006	G	A	0.012	0.002	0.005	0.013	0.007	0.016	-0.004	0.016
rs2065418	11	30422068	T	G	0.017	0.002	-0.005	0.013	0.002	0.017	-0.011	0.016
rs223051	11	32131303	T	C	0.011	0.002	0.018	0.013	0.038	0.017	0.003	0.017
rs10768994	11	43936945	T	C	0.011	0.002	-0.009	0.013	-0.013	0.016	0.000	0.016
rs10838465	11	45426141	A	C	0.014	0.002	-0.013	0.013	0.013	0.017	-0.044	0.017
rs10160701	11	46551918	T	C	0.014	0.002	0.000	0.016	0.008	0.021	0.000	0.021
rs7124681	11	47529947	A	C	0.026	0.002	0.016	0.013	0.026	0.016	0.012	0.016
rs1483121	11	48333360	G	A	0.017	0.002	-0.008	0.019	-0.023	0.023	0.016	0.024
rs7120873	11	49459474	T	C	0.017	0.003	0.000	0.020	0.011	0.026	-0.003	0.025
rs11228824	11	56634316	G	A	0.013	0.002	0.021	0.016	0.048	0.021	-0.005	0.020
rs7947143	11	64090422	G	A	0.018	0.002	-0.024	0.017	-0.035	0.022	-0.009	0.022
rs506338	11	64440920	C	T	0.013	0.002	0.004	0.014	0.000	0.018	0.006	0.017
rs653264	11	68699775	G	A	0.010	0.002	0.002	0.012	0.006	0.016	-0.001	0.016
rs592483	11	69445173	C	T	0.015	0.002	-0.007	0.013	-0.003	0.017	-0.012	0.016
rs7123876	11	72444583	C	T	0.012	0.002	0.016	0.014	0.051	0.019	-0.012	0.018
rs1465900	11	76473138	A	C	0.013	0.002	-0.011	0.015	-0.009	0.019	-0.016	0.019
rs7117238	11	78040259	G	A	0.013	0.002	-0.045	0.017	-0.027	0.021	-0.067	0.021
rs349088	11	84814393	C	A	0.013	0.002	0.017	0.012	0.023	0.016	0.016	0.016
rs3781815	11	85341933	T	C	0.013	0.002	-0.001	0.016	0.016	0.020	-0.014	0.020
rs10830452	11	89966202	G	A	0.011	0.002	-0.003	0.013	-0.002	0.017	-0.003	0.017

rs2605603	11	93221105	G	A	0.010	0.002	-0.002	0.012	0.001	0.016	-0.017	0.016
rs2155645	11	112912947	C	T	0.012	0.002	0.016	0.014	0.027	0.018	0.005	0.018
rs719802	11	113234679	T	C	0.010	0.002	0.001	0.013	-0.009	0.017	0.000	0.016
rs1048932	11	115044850	C	A	0.016	0.002	0.001	0.013	0.018	0.016	-0.024	0.016
rs12420725	11	117017530	G	A	0.023	0.004	0.041	0.027	0.032	0.034	0.051	0.034
rs1786141	11	118938315	T	C	0.013	0.002	0.004	0.013	0.009	0.016	0.002	0.016
rs7941030	11	122522375	C	T	0.011	0.002	0.010	0.013	0.018	0.016	0.010	0.016
rs7925214	11	130794253	T	C	0.015	0.002	-0.007	0.013	0.009	0.016	-0.019	0.016
rs2512885	11	131467794	C	T	0.013	0.002	0.022	0.012	0.020	0.016	0.020	0.016
rs11222940	11	131985721	C	A	0.012	0.002	-0.001	0.013	-0.016	0.017	0.012	0.017
rs4936175	11	132641959	C	T	0.012	0.002	-0.020	0.013	-0.017	0.016	-0.019	0.016
rs10894670	11	133221987	C	A	0.010	0.002	0.007	0.013	0.020	0.017	-0.008	0.017
rs329651	11	133767622	T	G	0.016	0.002	0.019	0.016	0.014	0.021	0.026	0.021
rs12364470	11	134601012	G	T	0.018	0.002	0.023	0.017	0.025	0.022	0.028	0.022
rs11611246	12	939480	T	G	0.024	0.002	0.033	0.015	0.037	0.020	0.034	0.020
rs2429150	12	2152655	C	A	0.011	0.002	-0.014	0.013	-0.010	0.016	-0.017	0.016
rs10744146	12	17212881	G	A	0.012	0.002	-0.011	0.012	-0.013	0.016	-0.017	0.016
rs621042	12	18789007	C	A	0.011	0.002	-0.006	0.013	-0.004	0.016	-0.016	0.016
rs10841188	12	19379693	G	A	0.013	0.002	0.019	0.014	0.002	0.018	0.027	0.018
rs1584121	12	23559163	G	A	0.013	0.002	-0.024	0.016	-0.029	0.021	-0.022	0.020
rs7970953	12	24075508	A	G	0.014	0.002	-0.017	0.014	-0.046	0.018	0.007	0.017
rs11052536	12	33371849	T	C	0.017	0.002	-0.016	0.018	-0.042	0.024	0.006	0.023
rs11170468	12	39430048	A	C	0.012	0.002	-0.012	0.015	0.003	0.019	-0.027	0.019
rs2733287	12	41880909	C	A	0.016	0.002	0.008	0.012	0.029	0.016	-0.025	0.016
rs2269828	12	47471439	G	A	0.011	0.002	0.002	0.014	0.005	0.017	-0.008	0.017
rs7975791	12	49413486	C	T	0.026	0.004	-0.059	0.037	-0.094	0.046	-0.021	0.049
rs7138803	12	50247468	A	G	0.030	0.002	0.017	0.013	0.015	0.017	0.019	0.016
rs4077093	12	51593616	T	G	0.013	0.002	-0.002	0.015	-0.020	0.020	0.018	0.019
rs7134628	12	53785861	A	G	0.017	0.003	0.021	0.021	0.025	0.027	0.013	0.026
rs4759075	12	54667285	T	C	0.011	0.002	0.022	0.013	0.036	0.017	0.012	0.016
rs2271189	12	56494991	G	A	0.014	0.002	0.000	0.013	-0.017	0.017	0.012	0.016
rs774211	12	56920939	T	C	0.014	0.002	-0.005	0.017	-0.024	0.022	0.009	0.021
rs11173522	12	60953472	A	C	0.013	0.002	-0.012	0.015	-0.009	0.020	-0.016	0.019
rs1819844	12	68205604	A	G	0.014	0.002	0.006	0.016	0.009	0.021	0.009	0.021
rs10878946	12	69642315	C	T	0.014	0.002	0.025	0.014	0.044	0.018	0.015	0.018
rs11115176	12	82465797	T	C	0.012	0.002	0.012	0.015	0.032	0.019	-0.007	0.019
rs12299814	12	90216146	C	A	0.016	0.002	-0.011	0.014	-0.024	0.019	0.000	0.018
rs2579106	12	90628230	C	T	0.014	0.002	0.024	0.014	0.034	0.018	0.011	0.018
rs11105842	12	91243910	G	A	0.011	0.002	-0.014	0.013	-0.025	0.017	-0.003	0.016
rs10745785	12	97586257	C	T	0.011	0.002	-0.007	0.013	-0.022	0.017	0.014	0.017
rs1420341	12	97913785	C	T	0.014	0.002	0.000	0.017	-0.012	0.022	0.010	0.021
rs7488867	12	103699685	C	T	0.020	0.002	-0.011	0.014	-0.025	0.018	0.008	0.018
rs12316047	12	108393845	G	A	0.017	0.002	-0.018	0.015	-0.003	0.019	-0.041	0.019
rs17608150	12	110046698	T	C	0.020	0.003	-0.019	0.024	-0.008	0.031	-0.042	0.030
rs4766500	12	110993791	G	A	0.013	0.002	0.006	0.013	0.022	0.017	-0.009	0.016
rs11065987	12	112072424	A	G	0.012	0.002	-0.078	0.013	-0.089	0.017	-0.072	0.016
rs11066188	12	112610714	G	A	0.012	0.002	-0.087	0.013	-0.098	0.017	-0.083	0.017
rs739742	12	113184739	A	C	0.012	0.002	-0.069	0.013	-0.085	0.017	-0.054	0.017
rs4766710	12	114437708	A	G	0.023	0.004	0.009	0.025	0.051	0.033	-0.029	0.032
rs17709991	12	116065057	C	T	0.011	0.002	0.017	0.014	0.003	0.018	0.028	0.018
rs7973955	12	118409640	G	A	0.013	0.002	-0.013	0.014	-0.005	0.018	-0.018	0.017

rs3887080	12	121661966	A	G	0.018	0.003	-0.017	0.019	0.009	0.025	-0.032	0.024
rs1169091	12	122462486	C	T	0.011	0.002	0.028	0.014	0.011	0.018	0.045	0.018
rs12369179	12	122963550	C	T	0.036	0.003	0.023	0.022	0.035	0.029	0.035	0.028
rs7133378	12	124409502	A	G	0.013	0.002	-0.038	0.013	-0.030	0.017	-0.040	0.017
rs11614340	12	133426483	C	T	0.013	0.002	0.005	0.013	0.031	0.017	-0.017	0.017
rs9507983	13	28620036	C	T	0.016	0.002	-0.003	0.013	-0.025	0.016	0.007	0.016
rs1045411	13	31033232	C	T	0.015	0.002	0.004	0.014	0.004	0.019	0.005	0.018
rs7332115	13	33147548	T	G	0.016	0.002	-0.011	0.013	-0.027	0.017	-0.005	0.016
rs1336486	13	40784814	G	T	0.014	0.002	0.014	0.013	0.026	0.017	0.002	0.017
rs12429545	13	54102206	A	G	0.032	0.003	-0.002	0.019	0.019	0.024	-0.023	0.024
rs7995015	13	54828961	T	G	0.013	0.002	-0.004	0.014	0.003	0.018	-0.011	0.017
rs9527455	13	56465597	C	A	0.012	0.002	-0.003	0.015	-0.013	0.019	0.006	0.019
rs9569808	13	58631525	A	G	0.019	0.002	0.017	0.015	0.011	0.019	0.015	0.019
rs9538141	13	59178258	A	G	0.016	0.002	0.007	0.013	0.005	0.016	0.005	0.016
rs9317219	13	62686518	G	A	0.010	0.002	0.000	0.013	-0.009	0.016	0.007	0.016
rs1304070	13	65479449	A	G	0.013	0.002	-0.021	0.015	-0.020	0.019	-0.017	0.018
rs9540493	13	66205704	A	G	0.014	0.002	-0.011	0.013	0.010	0.017	-0.025	0.016
rs9571687	13	67472713	C	A	0.013	0.002	-0.009	0.013	-0.028	0.017	0.009	0.017
rs629443	13	76386075	T	G	0.012	0.002	0.009	0.015	-0.011	0.019	0.014	0.018
rs1668633	13	78371890	T	C	0.010	0.002	-0.005	0.013	0.006	0.016	-0.006	0.016
rs9530843	13	79563749	A	C	0.013	0.002	-0.014	0.013	-0.009	0.016	-0.024	0.016
rs9547153	13	85903717	G	A	0.010	0.002	-0.004	0.013	0.008	0.016	-0.007	0.016
rs7331467	13	86540789	A	G	0.013	0.002	0.006	0.013	0.009	0.017	-0.003	0.016
rs2198679	13	89131240	A	G	0.011	0.002	-0.005	0.012	-0.009	0.016	-0.003	0.016
rs9302083	13	96374386	T	C	0.011	0.002	-0.016	0.012	0.002	0.016	-0.030	0.016
rs1927790	13	96922191	C	T	0.015	0.002	-0.005	0.013	0.016	0.016	-0.023	0.016
rs9634445	13	98123032	A	G	0.011	0.002	0.007	0.014	0.011	0.018	0.003	0.017
rs7334078	13	99120484	T	C	0.012	0.002	0.031	0.014	0.032	0.018	0.026	0.018
rs9514131	13	104090848	G	T	0.015	0.003	0.009	0.019	0.011	0.025	0.007	0.025
rs2479958	13	111984244	A	G	0.015	0.002	0.010	0.013	0.024	0.017	-0.008	0.016
rs10132280	14	25928179	C	A	0.022	0.002	-0.021	0.014	-0.020	0.018	-0.027	0.017
rs12885454	14	29736838	C	A	0.019	0.002	-0.006	0.013	0.016	0.017	-0.023	0.017
rs10483389	14	30495719	T	C	0.034	0.004	-0.040	0.032	0.006	0.041	-0.067	0.041
rs17522122	14	33302882	T	G	0.016	0.002	-0.008	0.013	-0.008	0.017	-0.013	0.016
rs7144747	14	35637511	G	A	0.016	0.003	0.043	0.019	0.021	0.024	0.067	0.024
rs1956151	14	40101060	G	A	0.013	0.002	0.039	0.016	0.054	0.020	0.013	0.020
rs1955540	14	40801751	C	T	0.016	0.002	0.007	0.016	0.004	0.021	0.011	0.020
rs8007908	14	46838144	G	A	0.011	0.002	-0.004	0.012	-0.001	0.016	0.002	0.016
rs3007105	14	47367616	T	C	0.014	0.002	-0.009	0.013	-0.005	0.016	-0.001	0.016
rs217671	14	62360464	G	A	0.014	0.002	-0.003	0.014	-0.017	0.018	0.000	0.018
rs4430672	14	63094407	T	C	0.013	0.002	-0.016	0.016	-0.006	0.020	-0.032	0.020
rs3902951	14	69789755	G	T	0.013	0.002	-0.011	0.015	0.000	0.019	-0.025	0.019
rs1007934	14	73463479	G	A	0.012	0.002	-0.009	0.013	-0.012	0.016	-0.003	0.016
rs17105272	14	77529783	T	C	0.011	0.002	-0.020	0.013	-0.029	0.018	-0.006	0.017
rs10146527	14	79499850	T	C	0.014	0.002	-0.002	0.013	0.011	0.017	-0.003	0.016
rs7144011	14	79940383	T	G	0.028	0.002	0.037	0.015	0.015	0.019	0.049	0.019
rs12888545	14	88308044	G	A	0.014	0.002	0.056	0.015	0.095	0.019	0.024	0.018
rs1951455	14	91512339	C	T	0.015	0.002	-0.009	0.014	-0.001	0.018	-0.021	0.018
rs9989141	14	94006257	T	C	0.016	0.002	0.003	0.013	0.003	0.017	-0.001	0.016
rs17096510	14	98616999	A	C	0.015	0.003	-0.031	0.018	-0.014	0.023	-0.034	0.023
rs4082793	14	99700080	C	T	0.012	0.002	0.002	0.013	-0.005	0.016	0.008	0.016

rs12147845	14	101144596	T	C	0.020	0.003	0.036	0.020	0.011	0.025	0.057	0.025
rs7147503	14	101539384	C	T	0.012	0.002	0.034	0.013	0.029	0.017	0.033	0.017
rs10431745	14	102302372	A	G	0.020	0.003	-0.004	0.025	0.010	0.033	-0.036	0.031
rs8016771	14	102649451	G	T	0.019	0.003	-0.020	0.022	-0.004	0.029	-0.029	0.029
rs3803286	14	103246470	A	G	0.018	0.002	0.017	0.013	0.006	0.017	0.036	0.017
rs2010281	14	103862322	G	A	0.016	0.002	0.053	0.013	0.081	0.017	0.034	0.017
rs4906908	15	27040082	G	T	0.010	0.002	-0.019	0.013	-0.019	0.016	-0.017	0.016
rs7172627	15	31877690	G	A	0.012	0.002	0.025	0.012	0.029	0.016	0.024	0.016
rs8036040	15	36402716	A	C	0.011	0.002	0.006	0.012	0.014	0.016	0.005	0.016
rs7178205	15	41971213	A	G	0.014	0.002	-0.012	0.016	0.007	0.021	-0.042	0.021
rs12439798	15	46584787	T	G	0.013	0.002	-0.004	0.012	0.007	0.016	-0.011	0.016
rs12899905	15	47142090	C	T	0.011	0.002	-0.021	0.014	-0.029	0.018	-0.012	0.018
rs1912631	15	47914691	G	A	0.012	0.002	-0.032	0.013	-0.026	0.016	-0.040	0.016
rs3736485	15	51748610	A	G	0.013	0.002	0.011	0.013	0.014	0.016	0.009	0.016
rs2414128	15	52369728	T	C	0.012	0.002	0.023	0.013	0.020	0.017	0.024	0.016
rs16965225	15	53143170	T	G	0.022	0.003	0.007	0.025	-0.011	0.032	0.018	0.032
rs10163018	15	53525415	C	T	0.011	0.002	0.006	0.013	0.011	0.017	0.001	0.016
rs17236194	15	59002755	C	T	0.015	0.002	0.018	0.018	0.015	0.024	0.017	0.023
rs340025	15	60908307	C	T	0.012	0.002	0.014	0.013	0.032	0.016	0.006	0.016
rs7162238	15	61447827	A	G	0.011	0.002	0.021	0.013	0.016	0.016	0.031	0.016
rs12595158	15	62316035	C	T	0.039	0.005	0.090	0.045	0.063	0.059	0.086	0.057
rs11635675	15	63793238	T	G	0.012	0.002	-0.028	0.013	-0.029	0.017	-0.023	0.017
rs17200912	15	66730307	C	T	0.015	0.002	-0.008	0.015	-0.001	0.019	-0.004	0.019
rs13329567	15	68104367	C	T	0.029	0.002	0.001	0.015	0.006	0.019	-0.001	0.019
rs7164727	15	73093991	T	C	0.018	0.002	-0.017	0.013	-0.004	0.017	-0.027	0.017
rs11630240	15	73645403	G	A	0.024	0.003	0.003	0.024	0.018	0.031	-0.016	0.030
rs5742914	15	74286929	T	C	0.018	0.003	-0.016	0.020	-0.010	0.025	-0.021	0.025
rs936227	15	75131959	G	A	0.012	0.002	0.008	0.013	0.011	0.016	0.012	0.016
rs1829130	15	76107730	C	T	0.011	0.002	0.007	0.013	0.007	0.017	0.007	0.017
rs11855853	15	78012618	C	T	0.015	0.002	-0.013	0.014	0.002	0.018	-0.021	0.018
rs12595749	15	79432359	A	G	0.014	0.002	-0.009	0.013	-0.025	0.016	0.011	0.016
rs12593036	15	81058652	A	G	0.015	0.002	0.014	0.014	0.022	0.018	0.010	0.017
rs12906208	15	92571691	G	A	0.013	0.002	0.015	0.015	0.048	0.020	-0.011	0.019
rs7181498	15	95271404	T	C	0.016	0.002	0.011	0.013	0.001	0.017	0.023	0.016
rs1021985	15	98285658	G	A	0.011	0.002	-0.026	0.013	-0.030	0.017	-0.025	0.016
rs2715423	15	99511873	G	A	0.012	0.002	-0.019	0.014	-0.035	0.018	0.002	0.018
rs11866815	16	387867	C	T	0.016	0.002	-0.003	0.014	-0.006	0.019	-0.011	0.018
rs2516739	16	2097158	G	A	0.016	0.002	0.015	0.016	0.048	0.020	-0.009	0.020
rs12448257	16	3599655	A	G	0.018	0.002	-0.026	0.015	0.004	0.020	-0.046	0.020
rs879620	16	4015729	T	C	0.023	0.002	-0.032	0.013	-0.038	0.017	-0.029	0.017
rs1876359	16	4930100	T	C	0.013	0.002	0.024	0.013	0.032	0.017	0.008	0.016
rs12149756	16	6728603	G	A	0.013	0.002	-0.022	0.014	-0.030	0.019	-0.023	0.018
rs249292	16	9412804	T	C	0.012	0.002	0.014	0.013	-0.001	0.017	0.022	0.017
rs1990573	16	9713688	G	A	0.013	0.002	-0.017	0.013	0.002	0.017	-0.035	0.017
rs4985155	16	15129459	A	G	0.012	0.002	-0.054	0.013	-0.044	0.017	-0.070	0.017
rs12446632	16	19935389	G	A	0.035	0.002	0.021	0.018	0.037	0.023	0.023	0.022
rs9931967	16	20375351	T	G	0.016	0.002	-0.013	0.013	0.002	0.016	-0.025	0.016
rs2023671	16	23849839	G	T	0.012	0.002	-0.062	0.014	-0.046	0.019	-0.079	0.018
rs7195386	16	24578458	T	C	0.013	0.002	-0.027	0.012	-0.038	0.016	-0.024	0.016
rs2726039	16	28327463	G	A	0.019	0.002	0.063	0.013	0.071	0.017	0.049	0.017
rs7498665	16	28883241	G	A	0.027	0.002	0.097	0.013	0.115	0.017	0.073	0.016

rs3814883	16	29994922	T	C	0.023	0.002	-0.011	0.013	-0.016	0.017	-0.006	0.016
rs1557672	16	30510571	C	T	0.011	0.002	0.032	0.014	0.016	0.018	0.048	0.018
rs4889606	16	31011183	A	G	0.020	0.002	0.002	0.013	0.002	0.017	-0.004	0.016
rs2080454	16	49062590	C	A	0.013	0.002	-0.010	0.013	-0.004	0.017	-0.017	0.016
rs10852521	16	53804965	C	T	0.064	0.002	0.017	0.012	0.031	0.016	0.003	0.016
rs12448738	16	56489343	C	A	0.017	0.003	-0.008	0.018	0.003	0.023	-0.025	0.023
rs11075489	16	62803841	C	T	0.011	0.002	0.011	0.012	0.016	0.016	0.012	0.016
rs7200919	16	67316600	A	G	0.010	0.002	0.028	0.013	0.025	0.017	0.029	0.016
rs2307022	16	68381978	A	G	0.014	0.002	-0.010	0.013	0.017	0.017	-0.023	0.017
rs244418	16	69622762	G	A	0.021	0.002	0.019	0.013	0.021	0.016	0.018	0.016
rs7919	16	70514828	C	A	0.016	0.002	0.036	0.013	0.053	0.016	0.022	0.016
rs11643673	16	71353719	A	G	0.011	0.002	0.015	0.013	-0.006	0.017	0.032	0.016
rs811054	16	72251132	T	C	0.014	0.002	-0.015	0.013	-0.030	0.016	0.000	0.016
rs756717	16	72996162	G	A	0.015	0.002	-0.020	0.013	-0.017	0.017	-0.027	0.017
rs1125804	16	74148932	G	A	0.011	0.002	0.011	0.013	0.007	0.016	0.006	0.016
rs6564360	16	76779612	G	A	0.014	0.002	0.007	0.016	0.007	0.020	-0.005	0.020
rs2012502	16	81728081	A	C	0.011	0.002	0.022	0.013	0.027	0.017	0.010	0.017
rs11150463	16	82452519	C	A	0.012	0.002	-0.001	0.013	0.029	0.017	-0.025	0.016
rs10492861	16	82866767	T	G	0.012	0.002	0.060	0.014	0.106	0.018	0.008	0.018
rs4516268	17	1846831	C	A	0.022	0.002	-0.018	0.017	0.012	0.021	-0.045	0.021
rs9904177	17	4755424	G	A	0.012	0.002	-0.024	0.014	0.002	0.018	-0.052	0.018
rs1000940	17	5283252	G	A	0.015	0.002	-0.008	0.014	0.015	0.017	-0.032	0.017
rs17681708	17	9792872	C	T	0.011	0.002	0.011	0.013	-0.005	0.017	0.024	0.017
rs1075901	17	15943910	C	T	0.012	0.002	0.009	0.012	0.002	0.016	0.010	0.016
rs4986044	17	21261560	C	T	0.016	0.002	0.011	0.013	0.021	0.017	0.005	0.016
rs11080090	17	27502029	G	A	0.013	0.002	0.005	0.018	-0.012	0.023	0.018	0.023
rs1038088	17	28074563	G	T	0.012	0.002	0.014	0.012	-0.010	0.016	0.032	0.016
rs3930349	17	31475545	C	A	0.014	0.002	-0.017	0.015	-0.026	0.019	-0.017	0.019
rs12150665	17	34914787	T	C	0.016	0.002	0.033	0.013	0.015	0.016	0.049	0.016
rs8070454	17	38160754	C	T	0.010	0.002	0.073	0.013	0.072	0.017	0.079	0.016
rs16966801	17	39573713	G	A	0.016	0.002	0.007	0.016	0.009	0.020	0.019	0.020
rs17599948	17	41353410	A	G	0.013	0.002	-0.007	0.017	0.003	0.022	-0.015	0.021
rs9901595	17	42305699	A	G	0.012	0.002	-0.043	0.013	-0.071	0.017	-0.019	0.017
rs208015	17	46252346	T	C	0.036	0.003	0.004	0.024	-0.035	0.032	0.033	0.031
rs11079849	17	47090785	C	T	0.019	0.002	0.000	0.013	0.008	0.017	-0.004	0.017
rs8071182	17	53336155	A	G	0.013	0.002	-0.008	0.017	0.033	0.021	-0.027	0.022
rs11649864	17	56093061	A	G	0.018	0.003	-0.055	0.022	-0.070	0.030	-0.040	0.028
rs8075273	17	61728881	C	A	0.013	0.002	-0.017	0.014	-0.001	0.018	-0.038	0.017
rs12602912	17	65870073	T	C	0.018	0.002	-0.028	0.016	-0.005	0.020	-0.049	0.020
rs2619976	17	71754545	T	C	0.010	0.002	0.019	0.013	0.020	0.017	0.024	0.016
rs7209235	17	73759552	G	A	0.011	0.002	-0.049	0.014	-0.062	0.018	-0.042	0.018
rs8081039	17	75995829	T	C	0.023	0.004	0.039	0.026	0.014	0.034	0.049	0.034
rs1696757	17	77800743	A	G	0.010	0.002	-0.011	0.013	-0.010	0.016	-0.011	0.016
rs12939549	17	78611724	A	G	0.018	0.002	0.003	0.012	0.005	0.016	0.000	0.016
rs7210438	17	79060180	T	C	0.014	0.002	-0.014	0.015	-0.021	0.019	-0.007	0.019
rs11658335	17	80084821	C	T	0.010	0.002	-0.009	0.013	-0.010	0.016	-0.005	0.016
rs1608445	18	947954	G	A	0.010	0.002	-0.002	0.013	0.008	0.016	-0.011	0.016
rs8097544	18	1839564	G	A	0.020	0.003	-0.028	0.018	-0.056	0.023	-0.002	0.022
rs12964689	18	21116998	A	G	0.020	0.002	0.019	0.012	0.030	0.016	0.007	0.016
rs16940823	18	22137319	C	A	0.015	0.002	-0.014	0.016	-0.006	0.021	-0.021	0.021
rs1941697	18	31251276	A	G	0.012	0.002	0.009	0.012	0.022	0.016	-0.008	0.016

rs1365466	18	36182440	C	T	0.014	0.002	0.013	0.014	0.014	0.018	0.012	0.018
rs559231	18	39644247	T	G	0.014	0.002	0.004	0.013	-0.002	0.017	0.006	0.016
rs7239883	18	40147671	G	A	0.013	0.002	0.016	0.013	0.014	0.016	0.008	0.016
rs1158805	18	40736590	C	A	0.014	0.002	-0.010	0.013	-0.029	0.016	-0.005	0.016
rs954018	18	42598463	G	A	0.013	0.002	-0.009	0.014	-0.025	0.017	0.007	0.017
rs10438964	18	42950629	C	T	0.013	0.002	-0.006	0.014	-0.033	0.018	0.019	0.018
rs7239114	18	45921214	A	G	0.012	0.002	-0.014	0.013	-0.035	0.017	-0.007	0.017
rs9964756	18	50441817	G	T	0.016	0.003	0.018	0.020	0.004	0.026	0.030	0.026
rs12607207	18	51560823	C	T	0.012	0.002	-0.028	0.014	-0.017	0.018	-0.041	0.018
rs8092503	18	52479487	G	A	0.017	0.002	-0.027	0.015	-0.015	0.019	-0.028	0.019
rs7243357	18	56883319	T	G	0.019	0.002	-0.044	0.016	-0.079	0.021	-0.020	0.021
rs663129	18	57838401	A	G	0.055	0.002	0.005	0.015	0.031	0.019	-0.012	0.019
rs8096899	18	58094046	G	T	0.040	0.004	-0.041	0.031	-0.013	0.040	-0.068	0.040
rs1426284	18	58738938	A	G	0.037	0.005	-0.039	0.035	-0.020	0.046	-0.067	0.045
rs7235205	18	63373762	G	A	0.014	0.002	0.014	0.014	0.016	0.018	0.006	0.018
rs12604935	18	69233570	C	A	0.011	0.002	0.027	0.013	0.030	0.017	0.033	0.016
rs11150911	18	73498528	A	C	0.013	0.002	0.012	0.014	-0.007	0.018	0.026	0.017
rs673429	18	76743413	T	C	0.024	0.004	0.015	0.027	-0.009	0.035	0.042	0.034
rs3957285	19	1891992	A	G	0.014	0.002	-0.010	0.013	-0.016	0.017	-0.007	0.016
rs350832	19	4069426	A	G	0.018	0.002	-0.047	0.015	-0.076	0.020	-0.026	0.020
rs243387	19	4445156	G	A	0.010	0.002	-0.004	0.012	-0.013	0.016	0.004	0.016
rs12609744	19	12994140	C	T	0.013	0.002	-0.029	0.014	-0.022	0.018	-0.038	0.018
rs17724992	19	18454825	A	G	0.018	0.002	0.017	0.014	0.026	0.018	0.022	0.018
rs709679	19	18726856	T	C	0.010	0.002	0.001	0.013	0.005	0.016	0.003	0.016
rs998732	19	19378671	A	G	0.017	0.002	-0.043	0.017	-0.037	0.021	-0.064	0.021
rs17513613	19	30286822	C	T	0.019	0.002	-0.006	0.013	0.000	0.017	-0.020	0.017
rs11084553	19	31019780	A	G	0.021	0.002	-0.018	0.018	0.006	0.023	-0.037	0.022
rs10408013	19	33963766	T	C	0.011	0.002	0.011	0.014	0.031	0.018	-0.007	0.017
rs29941	19	34309532	G	A	0.015	0.002	0.003	0.013	0.004	0.017	0.004	0.017
rs3826705	19	42637232	C	T	0.016	0.003	0.028	0.019	0.019	0.025	0.043	0.024
rs2075650	19	45395619	A	G	0.024	0.002	-0.020	0.019	-0.017	0.024	-0.008	0.024
rs11672660	19	46180184	C	T	0.034	0.002	0.019	0.016	0.021	0.021	0.027	0.020
rs3810291	19	47569003	A	G	0.027	0.002	-0.025	0.013	0.006	0.017	-0.060	0.017
rs11670142	19	49650471	G	T	0.011	0.002	0.014	0.013	0.021	0.016	0.015	0.016
rs4802778	19	51812034	G	A	0.012	0.002	-0.014	0.013	-0.029	0.017	-0.005	0.016
rs1884389	20	1410582	C	T	0.010	0.002	0.012	0.013	0.012	0.016	0.005	0.016
rs4813619	20	2815715	G	T	0.011	0.002	-0.014	0.012	-0.012	0.016	-0.017	0.016
rs1884897	20	6612832	G	A	0.019	0.002	0.017	0.013	0.019	0.016	0.011	0.016
rs2719771	20	8313607	C	A	0.012	0.002	-0.009	0.014	-0.008	0.018	-0.002	0.018
rs2876248	20	12700157	T	C	0.011	0.002	0.006	0.013	0.011	0.017	-0.005	0.017
rs17272434	20	15085365	G	A	0.011	0.002	0.019	0.013	0.005	0.017	0.027	0.017
rs8123881	20	15819495	G	A	0.020	0.002	-0.015	0.019	-0.014	0.024	-0.021	0.024
rs4814512	20	16564210	A	C	0.013	0.002	-0.017	0.015	-0.011	0.019	-0.029	0.019
rs852056	20	17102860	T	C	0.013	0.002	-0.024	0.014	-0.003	0.019	-0.043	0.018
rs1409818	20	21381121	T	C	0.020	0.003	0.008	0.020	-0.015	0.027	0.033	0.026
rs6050446	20	25195509	G	A	0.034	0.005	0.110	0.036	0.182	0.048	0.026	0.045
rs7260957	20	25722462	C	T	0.013	0.002	-0.015	0.016	0.017	0.021	-0.035	0.021
rs3813922	20	30777336	T	G	0.014	0.002	0.011	0.017	0.030	0.022	-0.013	0.022
rs4012234	20	32553047	G	T	0.014	0.002	0.002	0.013	-0.011	0.016	0.012	0.016
rs4911442	20	33355046	A	G	0.015	0.002	0.000	0.019	0.001	0.025	-0.012	0.024
rs1474976	20	34732372	A	C	0.017	0.003	0.012	0.022	0.038	0.028	-0.011	0.028

Waist-to-hip ratio

rs4812405	20	35276585	C	A	0.020	0.003	-0.007	0.025	-0.012	0.032	-0.020	0.031
rs2143253	20	41987392	G	A	0.019	0.003	0.025	0.019	0.037	0.024	0.024	0.024
rs2868202	20	43428832	C	T	0.011	0.002	0.024	0.014	0.017	0.018	0.026	0.018
rs2425840	20	44904838	C	A	0.012	0.002	0.021	0.013	0.026	0.016	0.012	0.016
rs6019482	20	47495560	C	T	0.018	0.002	0.000	0.017	0.040	0.022	-0.027	0.022
rs2143624	20	49781718	A	G	0.010	0.002	0.025	0.013	0.018	0.017	0.032	0.016
rs17806379	20	51107290	C	T	0.026	0.002	0.014	0.016	0.025	0.021	0.001	0.021
rs6023633	20	53453850	G	A	0.014	0.002	-0.011	0.015	-0.014	0.019	-0.013	0.019
rs6014523	20	54394975	T	C	0.015	0.002	-0.014	0.016	-0.037	0.020	0.007	0.020
rs2427453	20	61577515	T	C	0.011	0.002	-0.023	0.013	-0.021	0.016	-0.029	0.016
rs310618	20	62127121	C	T	0.011	0.002	0.030	0.014	0.049	0.018	0.013	0.018
rs6090041	20	62712676	A	G	0.012	0.002	0.019	0.014	0.001	0.018	0.033	0.018
rs2832283	21	30690558	A	G	0.012	0.002	0.019	0.015	0.029	0.020	0.007	0.019
rs762147	21	39238610	G	A	0.012	0.002	-0.007	0.014	0.016	0.018	-0.032	0.018
rs2836754	21	40291740	C	T	0.014	0.002	-0.057	0.013	-0.060	0.017	-0.055	0.016
rs2836961	21	40627020	C	A	0.010	0.002	0.001	0.013	0.004	0.017	-0.001	0.016
rs1964927	21	42653237	G	A	0.012	0.002	0.019	0.013	0.050	0.017	-0.002	0.017
rs427943	21	46570896	C	A	0.017	0.002	0.022	0.013	0.019	0.016	0.018	0.016
rs11538	22	18220831	G	A	0.014	0.002	-0.012	0.017	0.006	0.022	-0.025	0.021
rs175165	22	20116015	T	G	0.010	0.002	-0.013	0.013	-0.009	0.017	-0.025	0.016
rs12628891	22	38317137	C	T	0.011	0.002	0.003	0.014	-0.014	0.018	0.018	0.017
rs11089885	22	38809485	C	T	0.010	0.002	-0.004	0.013	-0.007	0.016	0.001	0.016
rs738140	22	41884954	A	G	0.014	0.002	0.015	0.014	0.032	0.017	-0.001	0.017
rs5751239	22	42592239	T	C	0.011	0.002	0.020	0.012	0.023	0.016	0.015	0.016
rs9615905	22	48875699	T	C	0.011	0.002	0.045	0.013	0.026	0.016	0.052	0.016
rs7525092	1	1810090	C	T	0.012	0.002	-0.043	0.014	-0.035	0.018	-0.043	0.018
rs2742690	1	2987268	A	C	0.017	0.003	0.022	0.017	0.017	0.021	0.006	0.021
rs6688233	1	9335745	T	C	0.019	0.002	-0.022	0.015	-0.031	0.019	-0.024	0.019
rs12024554	1	19925759	C	T	0.015	0.002	0.000	0.015	-0.002	0.019	0.003	0.019
rs2298632	1	23710475	C	T	0.014	0.002	0.006	0.013	0.001	0.017	0.017	0.016
rs213637	1	26188625	T	G	0.013	0.002	-0.010	0.013	-0.002	0.016	-0.010	0.016
rs4660808	1	40018509	T	C	0.015	0.002	0.027	0.015	0.050	0.019	-0.001	0.019
rs41286710	1	46383020	C	T	0.026	0.005	-0.027	0.031	-0.011	0.040	-0.039	0.039
rs7531656	1	49828663	A	G	0.016	0.002	-0.050	0.013	-0.044	0.017	-0.054	0.017
rs4593876	1	50389102	T	C	0.016	0.002	-0.049	0.013	-0.043	0.017	-0.054	0.017
rs2481665	1	62594677	T	C	0.011	0.002	-0.006	0.013	0.011	0.016	-0.017	0.016
rs11208660	1	65983626	T	C	0.023	0.003	0.004	0.022	-0.009	0.029	0.021	0.028
rs2815749	1	72814783	G	A	0.017	0.002	0.019	0.016	0.014	0.021	0.008	0.020
rs313732	1	86258603	G	A	0.012	0.002	0.005	0.013	0.018	0.016	-0.001	0.016
rs6699397	1	91212216	G	A	0.012	0.002	0.017	0.013	0.012	0.017	0.016	0.016
rs9659380	1	98423149	G	A	0.018	0.002	-0.014	0.017	-0.008	0.022	-0.013	0.022
rs2889351	1	103543532	T	C	0.015	0.002	-0.005	0.013	0.002	0.016	-0.010	0.016
rs2335077	1	107573565	G	A	0.012	0.002	-0.047	0.013	-0.028	0.017	-0.056	0.017
rs17024393	1	110154688	C	T	0.030	0.005	-0.057	0.039	-0.058	0.050	-0.055	0.049
rs6658723	1	112274162	T	C	0.015	0.002	-0.006	0.013	-0.010	0.017	-0.003	0.016
rs3789615	1	114941326	C	T	0.013	0.002	0.006	0.013	0.001	0.016	0.015	0.016
rs10923724	1	119546842	T	C	0.024	0.002	-0.013	0.013	-0.007	0.016	-0.023	0.016
rs905938	1	154991389	T	C	0.013	0.002	-0.037	0.014	-0.036	0.019	-0.037	0.018
rs61813324	1	156049877	T	C	0.019	0.003	-0.012	0.020	-0.014	0.026	-0.013	0.026
rs1535572	1	163649901	C	T	0.012	0.002	0.005	0.013	0.015	0.016	-0.010	0.016
rs10919388	1	170372503	C	A	0.027	0.002	-0.021	0.014	-0.020	0.018	-0.016	0.018

rs2301453	1	172358167	G	A	0.022	0.002	0.003	0.013	0.002	0.016	0.010	0.016
rs28680958	1	173848808	G	A	0.014	0.002	0.006	0.015	-0.006	0.019	0.011	0.019
rs543874	1	177889480	G	A	0.020	0.002	-0.027	0.016	-0.004	0.020	-0.045	0.020
rs3828112	1	200042031	T	C	0.012	0.002	0.009	0.014	0.034	0.017	-0.014	0.017
rs1572993	1	205045087	A	G	0.013	0.002	0.012	0.013	0.020	0.016	-0.001	0.016
rs17015701	1	210337691	A	G	0.012	0.002	0.015	0.015	-0.017	0.020	0.043	0.020
rs3767848	1	214173840	G	A	0.012	0.002	-0.030	0.014	-0.041	0.019	-0.022	0.018
rs1563355	1	219653101	C	T	0.028	0.002	-0.022	0.013	-0.006	0.017	-0.036	0.017
rs6604731	1	224051439	C	T	0.012	0.002	0.021	0.014	0.032	0.018	0.009	0.017
rs12042959	1	243533273	A	G	0.016	0.003	-0.019	0.018	0.003	0.023	-0.020	0.023
rs6743060	2	629510	A	C	0.027	0.002	-0.019	0.016	-0.010	0.021	-0.024	0.021
rs10495563	2	9662210	A	G	0.012	0.002	0.032	0.013	0.014	0.017	0.038	0.017
rs711869	2	13073967	G	A	0.017	0.002	0.001	0.013	0.016	0.016	-0.011	0.016
rs28445639	2	25182488	T	C	0.022	0.002	0.099	0.015	0.127	0.020	0.075	0.019
rs2384463	2	26942256	A	G	0.011	0.002	0.004	0.012	-0.016	0.016	0.019	0.016
rs10153926	2	43189120	A	G	0.014	0.002	-0.013	0.016	0.006	0.021	-0.037	0.020
rs7591387	2	43756032	T	C	0.018	0.003	0.103	0.020	0.145	0.025	0.057	0.025
rs17326656	2	48962291	T	G	0.015	0.002	-0.003	0.015	0.005	0.019	-0.005	0.019
rs929641	2	58792377	A	G	0.013	0.002	0.021	0.013	0.029	0.016	0.015	0.016
rs6545714	2	59307725	G	A	0.014	0.002	0.006	0.013	0.016	0.016	0.005	0.016
rs13028903	2	59951465	T	C	0.011	0.002	-0.017	0.013	-0.026	0.016	-0.006	0.016
rs2195086	2	60814466	G	T	0.014	0.002	-0.020	0.018	-0.034	0.023	-0.003	0.022
rs13391573	2	66237388	T	C	0.021	0.002	-0.023	0.016	-0.040	0.021	-0.002	0.021
rs11897119	2	66772000	C	T	0.013	0.002	0.017	0.013	0.015	0.016	0.011	0.016
rs7598832	2	67853013	C	T	0.019	0.002	0.029	0.013	0.041	0.017	0.035	0.017
rs6751316	2	100365061	T	C	0.018	0.003	0.012	0.018	-0.002	0.024	0.023	0.023
rs6542924	2	100893113	C	A	0.015	0.002	-0.005	0.013	-0.029	0.017	0.013	0.017
rs4851057	2	105939237	T	C	0.016	0.003	0.015	0.019	0.013	0.024	0.023	0.024
rs1345203	2	112253851	T	C	0.019	0.002	0.026	0.018	0.008	0.023	0.025	0.023
rs4849294	2	114619997	T	C	0.012	0.002	0.015	0.013	0.007	0.016	0.017	0.016
rs332105	2	119444229	G	A	0.014	0.002	0.005	0.013	0.003	0.016	0.001	0.016
rs55920843	2	158412701	T	G	0.062	0.009	-0.035	0.062	-0.103	0.079	0.020	0.079
rs1020731	2	161144055	A	G	0.013	0.002	-0.032	0.014	-0.035	0.017	-0.022	0.017
rs12621633	2	162859436	A	G	0.054	0.009	0.072	0.059	0.065	0.078	0.129	0.075
rs10207936	2	164893801	C	T	0.013	0.002	-0.015	0.015	-0.006	0.020	-0.017	0.019
rs10195252	2	165513091	T	C	0.023	0.002	-0.007	0.013	-0.019	0.016	-0.002	0.016
rs12469667	2	166162705	G	A	0.013	0.002	-0.025	0.015	-0.021	0.019	-0.027	0.018
rs6433219	2	171421125	A	G	0.014	0.002	-0.013	0.015	-0.003	0.019	-0.028	0.019
rs2216931	2	181599070	A	C	0.012	0.002	0.013	0.013	0.020	0.017	0.006	0.017
rs1569135	2	188115398	A	G	0.022	0.002	0.005	0.012	0.015	0.016	-0.001	0.016
rs1124639	2	200775744	C	T	0.011	0.002	-0.022	0.012	-0.005	0.016	-0.035	0.016
rs4673616	2	212281381	G	T	0.012	0.002	0.031	0.014	0.014	0.018	0.043	0.017
rs7599312	2	213413231	G	A	0.011	0.002	-0.022	0.014	-0.018	0.018	-0.017	0.018
rs1017698	2	219170525	G	A	0.011	0.002	0.066	0.013	0.059	0.016	0.064	0.016
rs7561798	2	228973660	G	A	0.010	0.002	-0.009	0.012	0.007	0.016	-0.024	0.016
rs3796072	2	230667539	C	T	0.012	0.002	-0.008	0.013	-0.009	0.017	-0.004	0.017
rs3891424	2	239365456	G	A	0.028	0.004	-0.015	0.029	-0.046	0.038	0.014	0.037
rs4686340	3	9345218	A	C	0.012	0.002	0.006	0.015	-0.002	0.019	0.004	0.019
rs2595004	3	11406721	C	T	0.016	0.002	-0.009	0.016	0.019	0.021	-0.035	0.021
rs9872031	3	12496461	A	G	0.020	0.002	-0.006	0.013	-0.001	0.016	-0.012	0.016
rs2455848	3	15771372	T	C	0.013	0.002	-0.004	0.013	-0.019	0.017	0.011	0.017

rs6442644	3	16852853	G	T	0.011	0.002	0.007	0.013	0.022	0.017	-0.022	0.017
rs4635727	3	18705035	A	G	0.012	0.002	0.037	0.014	0.046	0.018	0.043	0.018
rs7616762	3	33869679	G	A	0.012	0.002	0.027	0.014	0.008	0.018	0.047	0.018
rs11129657	3	35636709	C	T	0.018	0.002	-0.005	0.015	0.012	0.020	-0.023	0.020
rs155524	3	37562141	A	G	0.013	0.002	-0.005	0.013	0.014	0.016	-0.020	0.016
rs13092573	3	46988561	T	C	0.014	0.002	0.037	0.014	0.032	0.018	0.039	0.017
rs2267846	3	48556339	G	A	0.014	0.002	0.050	0.014	0.021	0.018	0.083	0.018
rs13316065	3	49884913	T	C	0.017	0.002	-0.088	0.014	-0.126	0.018	-0.057	0.017
rs12637870	3	50506073	C	A	0.017	0.003	0.036	0.017	0.053	0.022	0.005	0.021
rs13080929	3	52885112	A	C	0.018	0.002	-0.022	0.017	-0.020	0.022	-0.031	0.022
rs1452075	3	62481063	T	C	0.012	0.002	-0.014	0.014	-0.001	0.018	-0.027	0.018
rs4132228	3	64708114	C	T	0.027	0.002	-0.005	0.014	0.003	0.018	-0.004	0.017
rs13080520	3	81850742	C	T	0.011	0.002	-0.002	0.013	-0.014	0.017	0.013	0.016
rs6548834	3	82704753	A	G	0.012	0.002	-0.009	0.013	-0.001	0.017	-0.026	0.016
rs12495178	3	85886077	T	C	0.012	0.002	-0.035	0.013	-0.045	0.017	-0.031	0.016
rs9942009	3	89121921	T	C	0.013	0.002	-0.002	0.013	-0.017	0.016	-0.003	0.016
rs1609906	3	94033599	G	A	0.013	0.002	0.016	0.012	0.023	0.016	0.002	0.016
rs793456	3	99525631	G	A	0.011	0.002	0.026	0.013	0.020	0.016	0.036	0.016
rs9861425	3	123072883	C	A	0.010	0.002	0.011	0.012	0.017	0.016	0.014	0.016
rs111489708	3	127715518	C	T	0.027	0.005	-0.007	0.030	-0.012	0.039	-0.002	0.038
rs55683935	3	128349376	T	G	0.038	0.005	0.007	0.034	-0.032	0.044	0.007	0.044
rs2625963	3	129292948	C	T	0.027	0.002	0.018	0.017	0.029	0.022	-0.009	0.022
rs13063979	3	131564741	G	T	0.014	0.002	-0.020	0.014	-0.005	0.018	-0.030	0.018
rs645040	3	135926622	T	G	0.016	0.002	-0.016	0.015	-0.010	0.019	-0.009	0.019
rs13075615	3	136505832	C	T	0.018	0.002	-0.019	0.018	-0.016	0.022	-0.014	0.023
rs1672936	3	138340590	A	G	0.012	0.002	0.001	0.013	0.008	0.016	0.000	0.016
rs11710396	3	156278785	G	A	0.013	0.002	0.001	0.014	0.008	0.018	-0.005	0.017
rs10049088	3	156797648	C	T	0.027	0.002	-0.002	0.013	-0.001	0.016	-0.008	0.016
rs998749	3	168972802	A	G	0.013	0.002	-0.006	0.013	-0.029	0.016	0.013	0.016
rs4894803	3	171800256	A	G	0.015	0.002	-0.018	0.014	-0.011	0.017	-0.024	0.018
rs7647305	3	185834290	C	T	0.014	0.002	-0.022	0.015	-0.022	0.020	-0.035	0.019
rs2590440	3	187674660	G	A	0.014	0.002	-0.017	0.015	-0.014	0.020	-0.022	0.020
rs11724804	4	965779	G	A	0.017	0.002	-0.010	0.013	-0.024	0.017	-0.006	0.016
rs3121419	4	3232257	C	T	0.013	0.002	0.046	0.013	0.052	0.017	0.040	0.017
rs10004900	4	20115547	G	T	0.017	0.003	0.007	0.019	0.010	0.024	-0.004	0.024
rs10019888	4	26062990	G	A	0.021	0.002	0.066	0.017	0.106	0.021	0.037	0.021
rs13130484	4	45175691	T	C	0.015	0.002	-0.006	0.013	-0.006	0.016	-0.002	0.016
rs12643960	4	78655671	G	A	0.017	0.003	-0.009	0.018	0.005	0.023	-0.013	0.023
rs2167750	4	89730074	T	C	0.020	0.002	0.001	0.012	0.000	0.016	-0.004	0.016
rs1789882	4	100235053	A	G	0.016	0.002	0.010	0.016	0.006	0.021	0.014	0.021
rs3804381	4	102143616	A	G	0.012	0.002	0.038	0.014	0.058	0.018	0.026	0.018
rs809955	4	140874760	G	A	0.016	0.002	-0.011	0.013	0.007	0.017	-0.020	0.016
rs789351	4	145868370	T	C	0.012	0.002	0.023	0.013	0.030	0.016	0.027	0.016
rs7727202	5	4007914	C	A	0.013	0.002	-0.008	0.013	-0.010	0.016	-0.011	0.016
rs2448	5	53302354	T	C	0.016	0.002	-0.005	0.014	0.004	0.018	-0.018	0.018
rs459193	5	55806751	A	G	0.024	0.002	0.006	0.014	-0.004	0.019	0.024	0.018
rs628763	5	66312570	G	T	0.011	0.002	0.018	0.013	0.008	0.016	0.020	0.016
rs4704187	5	74480288	T	C	0.012	0.002	0.009	0.013	-0.011	0.017	0.027	0.016
rs2112347	5	75015242	T	G	0.015	0.002	0.008	0.013	-0.013	0.017	0.029	0.016
rs17568628	5	76046939	C	T	0.026	0.004	-0.029	0.031	-0.035	0.039	0.002	0.039
rs13167306	5	76574841	C	T	0.012	0.002	-0.001	0.013	0.004	0.017	-0.001	0.017

rs6870983	5	87697533	C	T	0.016	0.002	0.007	0.015	0.025	0.019	-0.003	0.019
rs2161097	5	103945178	T	C	0.013	0.002	0.014	0.012	0.002	0.016	0.018	0.016
rs4395620	5	106328326	T	C	0.011	0.002	0.009	0.013	0.017	0.016	0.002	0.016
rs11956399	5	112888676	T	G	0.016	0.002	-0.024	0.016	-0.027	0.021	-0.014	0.020
rs3813309	5	118690998	A	G	0.014	0.002	-0.016	0.014	-0.021	0.018	-0.014	0.017
rs11747001	5	132412299	A	G	0.015	0.002	-0.031	0.014	-0.044	0.019	-0.022	0.018
rs11167753	5	140989410	C	T	0.011	0.002	0.038	0.014	0.071	0.018	0.012	0.018
rs10477191	5	142077715	G	A	0.028	0.004	-0.023	0.032	-0.023	0.041	-0.005	0.040
rs2964006	5	153213880	T	G	0.013	0.002	-0.009	0.012	0.011	0.016	-0.021	0.016
rs4454042	5	155824774	T	C	0.013	0.002	0.000	0.014	0.001	0.018	-0.003	0.018
rs1122080	5	158015903	G	A	0.013	0.002	0.013	0.016	0.032	0.021	0.002	0.020
rs72846967	5	171849098	G	A	0.012	0.002	0.000	0.014	-0.007	0.018	-0.001	0.017
rs17738166	5	172997978	A	G	0.011	0.002	0.003	0.013	-0.001	0.016	0.013	0.016
rs6861681	5	173362458	A	G	0.018	0.002	-0.040	0.014	-0.062	0.018	-0.022	0.017
rs6556301	5	176527577	T	G	0.013	0.002	0.001	0.013	-0.001	0.017	0.006	0.017
rs1294410	6	6738752	C	T	0.025	0.002	0.012	0.013	-0.002	0.017	0.019	0.016
rs1334576	6	7211818	G	A	0.016	0.002	0.010	0.013	0.016	0.016	0.004	0.016
rs9296938	6	14573063	G	A	0.015	0.002	-0.030	0.014	-0.018	0.018	-0.037	0.018
rs112266013	6	15230743	G	A	0.017	0.003	-0.042	0.018	-0.030	0.024	-0.052	0.023
rs7744833	6	20581828	A	G	0.013	0.002	-0.044	0.013	-0.060	0.017	-0.027	0.017
rs3094621	6	30328753	T	C	0.019	0.003	0.070	0.021	0.162	0.028	0.000	0.027
rs1793892	6	31221351	C	T	0.018	0.003	0.044	0.020	0.107	0.025	0.000	0.026
rs454748	6	32213210	A	G	0.015	0.002	0.027	0.014	0.053	0.018	0.004	0.018
rs3117324	6	33324527	T	G	0.012	0.002	0.010	0.013	0.006	0.017	0.016	0.016
rs114760566	6	34192036	A	C	0.067	0.005	-0.022	0.032	-0.014	0.041	-0.027	0.040
rs147499178	6	34817079	T	C	0.048	0.006	-0.057	0.047	-0.039	0.059	-0.074	0.059
rs146874451	6	35383027	G	A	0.040	0.006	-0.072	0.042	-0.095	0.053	-0.074	0.053
rs4487571	6	41702619	A	C	0.021	0.004	0.036	0.026	0.042	0.034	0.025	0.032
rs3828755	6	43115220	G	A	0.013	0.002	0.013	0.013	0.010	0.016	0.023	0.016
rs998584	6	43757896	A	C	0.035	0.002	-0.006	0.013	-0.005	0.017	0.005	0.016
rs17665162	6	50275258	C	T	0.023	0.004	0.026	0.027	0.027	0.036	0.020	0.035
rs987237	6	50803050	G	A	0.020	0.002	0.003	0.016	0.010	0.021	0.001	0.020
rs9370243	6	53789830	T	G	0.020	0.003	-0.014	0.022	0.002	0.029	-0.034	0.029
rs2503749	6	81349756	T	G	0.014	0.002	-0.019	0.012	-0.024	0.016	-0.016	0.016
rs72895340	6	82297307	A	G	0.028	0.005	-0.003	0.029	-0.015	0.038	0.014	0.037
rs9294260	6	83433228	A	G	0.010	0.002	-0.024	0.013	-0.028	0.016	-0.035	0.016
rs9341990	6	85391568	A	G	0.012	0.002	0.016	0.013	0.012	0.016	0.020	0.016
rs10499013	6	97946396	G	A	0.013	0.002	-0.007	0.014	-0.033	0.018	0.010	0.018
rs901630	6	98539519	C	T	0.012	0.002	0.005	0.013	-0.004	0.016	0.002	0.016
rs2503099	6	100610101	G	A	0.021	0.002	-0.019	0.017	-0.017	0.021	-0.015	0.021
rs9400239	6	108977663	C	T	0.013	0.002	0.001	0.014	-0.007	0.018	0.012	0.017
rs2357760	6	120213880	A	G	0.011	0.002	-0.003	0.013	0.004	0.017	-0.014	0.017
rs9375417	6	126248374	C	T	0.012	0.002	-0.013	0.012	0.004	0.016	-0.027	0.016
rs143474978	6	126814933	C	T	0.074	0.006	-0.017	0.036	0.011	0.047	-0.061	0.047
rs72959041	6	127454893	A	G	0.126	0.004	-0.026	0.031	0.018	0.039	-0.090	0.039
rs605066	6	139829666	C	T	0.019	0.002	-0.027	0.013	-0.027	0.016	-0.022	0.016
rs672341	6	153455994	G	A	0.012	0.002	0.010	0.013	0.011	0.016	0.007	0.016
rs668871	6	160769811	C	T	0.013	0.002	-0.011	0.012	-0.002	0.016	-0.018	0.016
rs6955431	7	20444060	T	C	0.011	0.002	-0.031	0.013	-0.035	0.017	-0.029	0.017
rs2391168	7	25862790	A	C	0.026	0.002	-0.026	0.016	-0.015	0.020	-0.034	0.020
rs1534696	7	26397239	C	A	0.023	0.002	-0.004	0.013	0.000	0.017	-0.003	0.016

rs7801581	7	27223771	T	C	0.017	0.002	-0.043	0.015	-0.017	0.019	-0.067	0.019
rs1708302	7	28198677	C	T	0.011	0.002	0.036	0.012	0.068	0.016	0.002	0.016
rs2715135	7	50750128	T	G	0.011	0.002	0.024	0.013	0.028	0.017	0.018	0.016
rs1718618	7	68632251	G	A	0.024	0.004	0.018	0.028	0.002	0.036	0.045	0.036
rs55747707	7	73037366	G	A	0.015	0.002	0.039	0.016	0.056	0.021	0.025	0.020
rs12669521	7	77047102	A	G	0.013	0.002	0.005	0.013	-0.018	0.017	0.031	0.017
rs11764879	7	77333267	G	A	0.012	0.002	-0.017	0.014	-0.021	0.018	-0.011	0.018
rs1011024	7	99197401	A	G	0.015	0.002	-0.016	0.017	-0.005	0.022	-0.026	0.022
rs1142	7	104756326	T	C	0.015	0.002	0.008	0.013	0.018	0.017	0.012	0.017
rs4727695	7	107614003	A	G	0.022	0.003	0.001	0.021	-0.016	0.027	0.022	0.027
rs4476935	7	112987650	C	T	0.011	0.002	-0.010	0.013	-0.043	0.016	0.021	0.016
rs39312	7	116954785	C	A	0.015	0.002	0.013	0.013	0.034	0.017	-0.008	0.017
rs6466774	7	120886915	T	C	0.013	0.002	0.005	0.013	-0.001	0.016	0.018	0.016
rs13229637	7	136717447	T	C	0.016	0.003	0.011	0.017	0.033	0.022	-0.007	0.022
rs9969455	8	12617155	A	G	0.011	0.002	-0.013	0.013	0.006	0.017	-0.028	0.017
rs15285	8	19824667	C	T	0.012	0.002	0.022	0.014	0.028	0.018	0.012	0.018
rs6983481	8	23609009	G	T	0.019	0.002	0.012	0.015	0.009	0.019	0.006	0.018
rs11992444	8	25464690	T	G	0.019	0.002	0.010	0.015	-0.003	0.020	0.004	0.020
rs2725371	8	30854033	A	G	0.017	0.002	0.026	0.013	0.027	0.017	0.019	0.017
rs881301	8	38332318	C	T	0.013	0.002	0.001	0.013	-0.009	0.016	0.006	0.016
rs62506196	8	60264465	C	A	0.016	0.003	0.038	0.017	0.052	0.022	0.027	0.022
rs13255070	8	68203608	G	A	0.014	0.002	-0.015	0.014	0.002	0.018	-0.028	0.018
rs4738141	8	72469742	G	A	0.020	0.002	0.010	0.014	0.019	0.018	0.002	0.018
rs1431659	8	73439070	A	G	0.014	0.002	-0.013	0.014	-0.001	0.018	-0.020	0.018
rs13256367	8	128334900	A	C	0.014	0.002	-0.008	0.013	0.013	0.017	-0.019	0.017
rs10505628	8	135708575	C	T	0.010	0.002	0.015	0.013	0.022	0.016	0.009	0.016
rs11782074	8	142617096	T	G	0.011	0.002	-0.022	0.013	-0.003	0.017	-0.040	0.016
rs6474945	9	15670492	G	T	0.010	0.002	-0.001	0.012	0.000	0.016	0.002	0.016
rs10968576	9	28414339	G	A	0.014	0.002	0.018	0.013	0.025	0.017	0.015	0.017
rs1680490	9	29642688	G	A	0.012	0.002	0.001	0.013	-0.009	0.017	0.009	0.017
rs10991926	9	94180339	T	C	0.012	0.002	0.021	0.013	0.026	0.017	0.011	0.017
rs10821003	9	95452843	A	C	0.017	0.002	0.064	0.016	0.078	0.021	0.064	0.021
rs7848336	9	96454513	C	T	0.013	0.002	-0.006	0.014	-0.011	0.018	0.004	0.018
rs2398893	9	96758342	A	G	0.016	0.002	-0.034	0.014	-0.029	0.018	-0.049	0.018
rs62565259	9	102162570	C	T	0.016	0.003	-0.032	0.017	-0.028	0.022	-0.043	0.022
rs10991433	9	107726918	C	T	0.025	0.003	0.021	0.021	-0.010	0.027	0.051	0.026
rs10978310	9	108622461	A	G	0.023	0.004	-0.015	0.028	0.003	0.036	-0.025	0.036
rs10116353	9	111950088	G	T	0.014	0.002	0.020	0.014	0.003	0.017	0.038	0.017
rs10980797	9	113912553	G	A	0.015	0.002	0.011	0.012	0.025	0.016	0.002	0.016
rs1752169	9	126586563	A	C	0.012	0.002	-0.006	0.014	0.001	0.018	-0.012	0.018
rs4382592	9	134870755	T	G	0.012	0.002	0.019	0.014	0.025	0.017	0.019	0.017
rs28647893	9	136994893	C	T	0.012	0.002	0.001	0.014	0.030	0.018	-0.023	0.017
rs10795055	10	3581221	A	G	0.011	0.002	0.019	0.013	0.030	0.016	0.018	0.016
rs12774134	10	4963327	C	T	0.016	0.003	-0.012	0.019	-0.029	0.025	0.001	0.025
rs7907173	10	5648787	G	A	0.011	0.002	0.004	0.012	-0.011	0.016	0.016	0.016
rs1243188	10	21908803	C	T	0.015	0.002	0.029	0.013	0.019	0.017	0.031	0.017
rs1494204	10	27904321	C	T	0.011	0.002	-0.007	0.013	0.012	0.016	-0.021	0.016
rs2907794	10	32391109	G	A	0.012	0.002	0.057	0.015	0.054	0.019	0.054	0.019
rs10827252	10	33672884	G	A	0.011	0.002	-0.017	0.013	-0.007	0.016	-0.021	0.016
rs1757471	10	34168090	T	C	0.013	0.002	-0.005	0.012	-0.002	0.016	-0.005	0.016
rs708437	10	36227656	A	G	0.014	0.002	0.011	0.016	-0.022	0.021	0.042	0.021

rs7070670	10	61842645	C	T	0.013	0.002	-0.023	0.014	-0.046	0.017	-0.019	0.017
rs7070749	10	63882682	A	G	0.013	0.002	0.008	0.013	0.005	0.016	0.005	0.016
rs780159	10	80907147	G	A	0.013	0.002	-0.016	0.013	-0.013	0.016	-0.025	0.016
rs3814614	10	88128281	A	G	0.011	0.002	-0.008	0.013	-0.022	0.016	-0.002	0.016
rs10788569	10	89604732	C	T	0.013	0.002	0.013	0.014	0.021	0.018	0.009	0.018
rs117471638	10	93158084	A	G	0.042	0.007	-0.156	0.049	-0.142	0.064	-0.108	0.062
rs1437	10	93790523	A	G	0.013	0.002	0.034	0.013	0.020	0.017	0.041	0.016
rs10882271	10	95346067	A	G	0.014	0.002	0.021	0.014	0.021	0.018	0.020	0.018
rs10883518	10	102416555	C	A	0.011	0.002	-0.008	0.013	0.006	0.017	-0.011	0.017
rs12777288	10	115860058	C	T	0.014	0.002	0.017	0.015	-0.004	0.019	0.034	0.019
rs2254069	10	122875589	A	G	0.021	0.003	-0.023	0.020	-0.014	0.025	-0.036	0.025
rs61876729	11	778857	A	G	0.021	0.003	-0.017	0.023	-0.021	0.030	-0.035	0.030
rs4929927	11	8658485	G	A	0.015	0.002	0.001	0.013	0.014	0.017	-0.013	0.016
rs2957658	11	10393468	G	A	0.013	0.002	-0.010	0.013	-0.031	0.016	0.006	0.016
rs7932891	11	10921512	A	G	0.011	0.002	-0.009	0.014	0.011	0.018	-0.022	0.018
rs1481880	11	13269548	A	G	0.013	0.002	0.008	0.014	-0.002	0.018	0.007	0.018
rs4141261	11	17708379	G	T	0.011	0.002	-0.008	0.013	-0.021	0.017	-0.006	0.017
rs11030107	11	27694835	G	A	0.018	0.002	-0.002	0.014	-0.004	0.019	-0.010	0.018
rs605765	11	30217503	C	T	0.011	0.002	-0.015	0.013	-0.011	0.016	-0.024	0.016
rs4755720	11	43628749	C	T	0.013	0.002	0.006	0.013	0.014	0.016	-0.007	0.016
rs11039290	11	47572279	G	A	0.017	0.002	-0.005	0.013	0.004	0.017	-0.007	0.017
rs2428548	11	62311462	G	A	0.015	0.002	-0.008	0.013	-0.023	0.017	-0.013	0.016
rs35169799	11	64031241	T	C	0.037	0.004	0.070	0.027	0.092	0.034	0.053	0.034
rs10896012	11	65278461	C	T	0.018	0.002	-0.022	0.016	-0.032	0.020	-0.010	0.020
rs2276106	11	66105817	T	C	0.015	0.002	-0.007	0.014	-0.013	0.018	-0.006	0.018
rs7395513	11	69262756	G	A	0.017	0.002	-0.020	0.013	-0.021	0.016	-0.020	0.016
rs536665	11	85322400	G	A	0.017	0.002	0.010	0.016	0.005	0.020	0.023	0.020
rs647248	11	89917699	A	G	0.011	0.002	-0.009	0.013	0.000	0.016	-0.024	0.016
rs2513987	11	102977271	G	A	0.014	0.002	0.013	0.014	0.000	0.018	0.018	0.018
rs2276390	11	111895254	G	T	0.021	0.002	-0.007	0.013	-0.012	0.017	-0.001	0.017
rs11214589	11	113245048	G	A	0.011	0.002	0.004	0.013	-0.002	0.016	0.000	0.016
rs11216183	11	116781545	A	C	0.023	0.003	0.025	0.021	-0.002	0.027	0.033	0.027
rs3825061	11	118944675	T	C	0.014	0.002	0.001	0.013	0.006	0.016	0.001	0.016
rs579682	11	122014110	C	T	0.013	0.002	0.018	0.014	-0.011	0.018	0.044	0.017
rs2512885	11	131467794	C	T	0.010	0.002	0.022	0.012	0.020	0.016	0.020	0.016
rs4936175	11	132641959	C	T	0.010	0.002	-0.020	0.013	-0.017	0.016	-0.019	0.016
rs12828016	12	998365	G	T	0.011	0.002	0.028	0.013	-0.005	0.016	0.052	0.016
rs7222	12	2055266	T	C	0.011	0.002	-0.020	0.013	-0.035	0.016	-0.004	0.016
rs544668	12	3388004	T	C	0.011	0.002	0.014	0.013	0.007	0.016	0.012	0.016
rs34322	12	12879570	T	C	0.010	0.002	0.017	0.013	0.024	0.016	0.007	0.016
rs11055887	12	14417179	G	A	0.013	0.002	0.041	0.016	0.036	0.021	0.041	0.020
rs11048456	12	26463082	C	T	0.027	0.002	0.026	0.014	0.004	0.018	0.036	0.018
rs11051005	12	30783475	A	G	0.013	0.002	-0.051	0.014	-0.022	0.018	-0.070	0.018
rs10506110	12	33708552	A	C	0.014	0.002	-0.012	0.013	-0.007	0.017	-0.018	0.017
rs12372466	12	34636450	A	G	0.011	0.002	-0.005	0.013	-0.008	0.017	-0.005	0.016
rs11183232	12	37941053	A	G	0.011	0.002	-0.001	0.013	-0.004	0.017	-0.002	0.016
rs1026462	12	41821630	G	A	0.013	0.002	0.004	0.012	0.028	0.016	-0.030	0.016
rs7138803	12	50247468	A	G	0.013	0.002	0.017	0.013	0.015	0.017	0.019	0.016
rs1443512	12	54342684	A	C	0.028	0.002	-0.005	0.015	-0.018	0.019	0.011	0.019
rs2277339	12	57146069	G	T	0.017	0.003	0.035	0.021	0.035	0.026	0.026	0.026
rs11176015	12	66441684	T	C	0.015	0.002	-0.003	0.014	0.010	0.018	-0.004	0.018

rs704061	12	89771903	C	T	0.012	0.002	-0.008	0.012	0.021	0.016	-0.035	0.016
rs11107169	12	94126855	A	G	0.012	0.002	0.000	0.013	-0.028	0.016	0.025	0.016
rs7311622	12	98772975	C	T	0.012	0.002	-0.019	0.013	-0.024	0.016	-0.014	0.016
rs3764002	12	108618630	C	T	0.021	0.002	0.021	0.014	0.041	0.018	0.003	0.018
rs74628422	12	116034706	A	G	0.014	0.002	0.004	0.015	-0.029	0.020	0.024	0.019
rs7961979	12	121671261	A	C	0.016	0.003	-0.012	0.019	0.015	0.025	-0.030	0.024
rs11608693	12	122208968	G	A	0.017	0.003	0.019	0.018	0.016	0.023	0.018	0.024
rs2454702	12	123209159	C	T	0.020	0.002	0.015	0.015	0.009	0.020	0.015	0.020
rs1568427	12	123738678	G	A	0.019	0.002	-0.014	0.014	-0.028	0.018	-0.004	0.018
rs863750	12	124505444	T	C	0.026	0.002	-0.011	0.013	-0.006	0.016	-0.022	0.016
rs12828318	12	133766122	A	G	0.013	0.002	0.028	0.018	0.032	0.023	0.021	0.023
rs1360485	13	31031884	T	C	0.015	0.002	0.010	0.014	0.010	0.018	0.010	0.017
rs2475837	13	50535863	T	C	0.015	0.003	0.006	0.020	0.027	0.025	-0.014	0.025
rs797486	13	51221618	A	C	0.032	0.003	-0.001	0.019	0.006	0.024	-0.004	0.024
rs1379828	13	54396602	C	T	0.013	0.002	-0.026	0.015	-0.040	0.020	-0.015	0.020
rs564930	13	54756074	T	C	0.020	0.003	0.010	0.019	0.027	0.024	0.002	0.024
rs9569777	13	58484786	G	T	0.013	0.002	-0.002	0.017	0.002	0.022	-0.017	0.021
rs4055791	13	59266053	C	T	0.012	0.002	-0.011	0.013	-0.028	0.016	-0.001	0.016
rs1441264	13	79580919	A	G	0.011	0.002	-0.024	0.013	-0.032	0.017	-0.017	0.016
rs12430764	13	93896935	A	G	0.011	0.002	0.018	0.012	0.032	0.016	0.012	0.016
rs9556979	13	99241507	G	T	0.011	0.002	0.036	0.014	0.037	0.018	0.036	0.017
rs9515201	13	111040798	C	A	0.012	0.002	0.025	0.014	0.029	0.018	0.022	0.017
rs1163627	13	112225701	A	C	0.010	0.002	0.003	0.013	0.001	0.016	-0.002	0.016
rs10132280	14	25928179	C	A	0.012	0.002	-0.021	0.014	-0.020	0.018	-0.027	0.017
rs61986159	14	53956168	T	C	0.014	0.002	0.004	0.015	-0.018	0.019	0.017	0.019
rs1190982	14	58815839	T	C	0.016	0.002	0.000	0.014	-0.011	0.018	0.008	0.017
rs2412107	14	65426216	T	G	0.013	0.002	-0.002	0.015	0.009	0.019	-0.005	0.019
rs2526886	14	71359064	T	G	0.013	0.002	-0.013	0.013	-0.017	0.017	-0.011	0.017
rs17109256	14	79939993	A	G	0.017	0.002	0.036	0.015	0.015	0.019	0.047	0.019
rs11620623	14	91555547	C	T	0.011	0.002	-0.010	0.014	-0.001	0.018	-0.015	0.018
rs7143963	14	103304425	T	C	0.014	0.002	0.013	0.016	0.010	0.021	0.030	0.021
rs12441543	15	31689543	G	A	0.012	0.002	0.009	0.014	-0.002	0.018	0.023	0.018
rs8036817	15	40970724	A	C	0.012	0.002	0.000	0.013	0.004	0.016	0.002	0.016
rs12440605	15	42102285	A	G	0.012	0.002	-0.023	0.012	-0.016	0.016	-0.033	0.016
rs3736485	15	51748610	A	G	0.012	0.002	0.011	0.013	0.014	0.016	0.009	0.016
rs2456530	15	53091553	T	C	0.016	0.003	0.012	0.019	0.010	0.024	0.016	0.024
rs12595496	15	56528806	G	A	0.018	0.003	-0.045	0.019	-0.058	0.024	-0.026	0.024
rs1657930	15	57120989	G	A	0.013	0.002	-0.007	0.015	0.005	0.020	-0.012	0.019
rs12440695	15	62435156	C	T	0.010	0.002	-0.002	0.013	-0.006	0.017	0.008	0.016
rs11071759	15	63922474	T	C	0.010	0.002	-0.034	0.013	-0.048	0.016	-0.028	0.016
rs1440372	15	67033151	C	T	0.014	0.002	-0.015	0.014	-0.013	0.018	-0.017	0.018
rs8043060	15	67661784	G	A	0.017	0.002	0.046	0.015	0.053	0.019	0.044	0.019
rs8039418	15	73441432	C	T	0.011	0.002	-0.011	0.013	-0.022	0.016	-0.008	0.016
rs7183908	15	74329193	C	T	0.016	0.002	0.011	0.012	0.000	0.016	0.012	0.016
rs936226	15	75069282	T	C	0.011	0.002	0.013	0.014	0.010	0.018	0.018	0.018
rs12593088	15	81058640	G	A	0.013	0.002	0.012	0.014	0.022	0.018	0.006	0.017
rs12101386	15	92571283	G	T	0.014	0.002	0.013	0.015	0.046	0.020	-0.013	0.019
rs8024294	15	94023132	A	G	0.018	0.003	-0.007	0.021	-0.013	0.027	-0.009	0.026
rs2862867	15	100268584	T	C	0.011	0.002	0.019	0.013	0.011	0.017	0.028	0.016
rs3747579	16	4445327	C	T	0.015	0.002	0.010	0.014	0.006	0.018	0.015	0.018
rs7200819	16	4945985	G	A	0.015	0.003	0.025	0.018	0.020	0.024	0.022	0.023

rs4782289	16	19859332	G	A	0.015	0.003	0.029	0.018	0.049	0.024	0.026	0.023
rs7186893	16	24806420	G	T	0.014	0.002	0.038	0.014	0.046	0.018	0.034	0.018
rs2650494	16	28318440	A	G	0.011	0.002	0.052	0.013	0.052	0.017	0.043	0.017
rs2008514	16	28825605	A	G	0.017	0.002	0.094	0.013	0.113	0.016	0.073	0.016
rs4788204	16	29995218	A	G	0.017	0.002	-0.014	0.012	-0.022	0.016	-0.006	0.016
rs2047937	16	49864791	C	T	0.011	0.002	0.000	0.013	-0.016	0.016	0.007	0.016
rs1421085	16	53800954	C	T	0.040	0.002	0.026	0.013	0.039	0.016	0.014	0.016
rs889398	16	69556715	C	T	0.017	0.002	0.024	0.013	0.025	0.016	0.026	0.016
rs2925979	16	81534790	T	C	0.022	0.002	-0.036	0.014	-0.013	0.018	-0.049	0.017
rs7196397	16	82874522	T	C	0.013	0.002	0.046	0.013	0.092	0.017	-0.001	0.017
rs7198287	16	85258191	C	T	0.014	0.002	0.021	0.015	0.001	0.020	-0.042	0.020
rs8070737	17	3981066	T	G	0.016	0.002	0.002	0.016	0.023	0.021	-0.014	0.021
rs858519	17	7531965	T	C	0.012	0.002	0.011	0.013	0.035	0.017	-0.008	0.016
rs12947517	17	17539278	C	T	0.014	0.002	0.029	0.013	0.013	0.017	0.046	0.016
rs672356	17	18266567	G	A	0.013	0.002	0.006	0.014	0.002	0.018	0.016	0.018
rs7213608	17	21279289	C	T	0.017	0.002	-0.017	0.014	-0.015	0.018	-0.019	0.017
rs2306589	17	34848874	T	C	0.016	0.002	0.023	0.012	0.010	0.016	0.038	0.016
rs72820838	17	40113631	T	C	0.025	0.004	-0.053	0.031	-0.027	0.041	-0.062	0.039
rs591939	17	40698075	G	A	0.018	0.002	-0.068	0.015	-0.076	0.019	-0.064	0.019
rs62064595	17	43460374	G	A	0.021	0.003	-0.038	0.019	-0.038	0.024	-0.041	0.024
rs62063286	17	44041987	T	C	0.024	0.002	0.011	0.018	0.016	0.023	0.002	0.024
rs62074125	17	44852612	A	C	0.020	0.002	0.011	0.016	0.029	0.021	-0.008	0.021
rs11079810	17	46227846	C	T	0.017	0.003	-0.064	0.020	-0.047	0.026	-0.081	0.026
rs12450225	17	46592413	G	A	0.011	0.002	0.008	0.012	0.018	0.016	-0.004	0.016
rs9905140	17	59496238	T	C	0.011	0.002	0.021	0.013	0.015	0.017	0.034	0.017
rs8075273	17	61728881	C	A	0.014	0.002	-0.017	0.014	-0.001	0.018	-0.038	0.017
rs12602912	17	65870073	T	C	0.018	0.002	-0.028	0.016	-0.005	0.020	-0.049	0.020
rs9897538	17	68432122	A	C	0.016	0.002	-0.022	0.012	-0.033	0.016	-0.006	0.016
rs9988	17	73230856	T	C	0.015	0.002	0.006	0.016	0.014	0.021	0.009	0.021
rs10512605	17	74212382	T	C	0.023	0.003	-0.020	0.023	-0.040	0.029	0.030	0.029
rs4239275	17	79923718	T	C	0.012	0.002	0.002	0.014	0.016	0.018	-0.009	0.017
rs3810068	18	2846499	T	C	0.016	0.002	0.000	0.014	0.009	0.018	-0.008	0.019
rs1787013	18	13072979	C	T	0.011	0.002	0.017	0.012	0.033	0.016	0.012	0.016
rs62095889	18	21069068	G	A	0.017	0.002	0.002	0.013	0.019	0.017	-0.015	0.017
rs10164099	18	34690744	C	T	0.015	0.003	-0.016	0.018	-0.007	0.023	-0.015	0.023
rs8096564	18	39910592	T	G	0.011	0.002	0.011	0.014	0.005	0.017	0.010	0.017
rs1158805	18	40736590	C	A	0.013	0.002	-0.010	0.013	-0.029	0.016	-0.005	0.016
rs9951872	18	46678832	A	G	0.021	0.002	-0.026	0.017	-0.052	0.022	-0.013	0.022
rs7235891	18	53454774	C	T	0.012	0.002	-0.023	0.012	-0.030	0.016	-0.022	0.016
rs6567160	18	57829135	C	T	0.026	0.002	0.006	0.015	0.030	0.019	-0.010	0.019
rs112099489	18	58417964	C	T	0.044	0.008	-0.111	0.054	-0.103	0.069	-0.152	0.069
rs28434748	18	63306008	G	A	0.015	0.002	0.021	0.015	0.046	0.020	0.008	0.020
rs12459350	19	2176586	A	G	0.013	0.002	0.012	0.012	0.033	0.016	0.000	0.016
rs1035942	19	7199803	A	G	0.012	0.002	-0.027	0.014	-0.013	0.018	-0.035	0.018
rs12608504	19	18389135	A	G	0.025	0.002	0.021	0.013	0.011	0.017	0.038	0.016
rs4808845	19	18812024	A	G	0.012	0.002	0.002	0.013	0.008	0.017	0.003	0.016
rs998732	19	19378671	A	G	0.017	0.002	-0.043	0.017	-0.037	0.021	-0.064	0.021
rs7257330	19	30301823	A	G	0.013	0.002	-0.021	0.013	-0.012	0.017	-0.038	0.016
rs3786897	19	33893008	G	A	0.024	0.002	0.004	0.013	0.013	0.016	-0.010	0.016
rs12461964	19	41341229	G	A	0.013	0.002	0.003	0.013	-0.005	0.017	0.008	0.017
rs429358	19	45411941	T	C	0.035	0.003	-0.010	0.019	-0.005	0.024	0.007	0.024

Body fat percentage

rs11672660	19	46180184	C	T	0.021	0.002	0.019	0.016	0.021	0.021	0.027	0.020
rs3810291	19	47569003	A	G	0.012	0.002	-0.025	0.013	0.006	0.017	-0.060	0.017
rs11084399	19	56000492	C	T	0.011	0.002	-0.011	0.013	0.002	0.017	-0.023	0.017
rs805770	20	5668714	T	C	0.018	0.002	-0.009	0.013	0.021	0.017	-0.032	0.017
rs979012	20	6623374	T	C	0.012	0.002	-0.024	0.013	-0.018	0.017	-0.022	0.017
rs7267979	20	25298087	A	G	0.010	0.002	-0.003	0.013	0.030	0.016	-0.026	0.016
rs143384	20	34025756	A	G	0.016	0.002	-0.015	0.013	-0.004	0.017	-0.028	0.016
rs4812700	20	41989051	C	T	0.018	0.003	0.023	0.019	0.034	0.024	0.022	0.024
rs2236519	20	45529571	A	G	0.021	0.002	0.022	0.013	0.019	0.017	0.028	0.016
rs3092781	20	45789953	C	T	0.015	0.002	-0.001	0.012	0.004	0.016	-0.010	0.016
rs6021889	20	50982870	A	G	0.020	0.002	0.026	0.014	0.043	0.018	0.011	0.018
rs910382	20	51699189	G	A	0.017	0.002	-0.003	0.012	0.008	0.016	-0.018	0.016
rs1328757	20	56135199	T	C	0.011	0.002	-0.011	0.012	0.005	0.016	-0.021	0.016
rs28451064	21	35593827	A	G	0.018	0.003	-0.007	0.019	0.019	0.025	-0.011	0.024
rs2836179	21	39544159	G	A	0.013	0.002	0.028	0.013	0.044	0.016	0.013	0.016
rs2838006	21	42653567	C	T	0.011	0.002	0.019	0.013	0.049	0.017	-0.001	0.017
rs510197	22	27584316	G	A	0.015	0.002	0.002	0.016	0.000	0.021	0.010	0.020
rs2294239	22	29449477	A	G	0.020	0.002	0.028	0.013	0.047	0.016	0.012	0.016
rs713770	22	35667975	A	G	0.012	0.002	-0.058	0.013	-0.033	0.017	-0.076	0.017
rs8141715	22	47214749	G	T	0.014	0.002	0.002	0.014	0.005	0.018	-0.008	0.018
rs12124126	1	6660349	A	G	0.012	0.002	-0.017	0.013	-0.013	0.017	-0.018	0.017
rs4908677	1	7738180	T	C	0.011	0.002	-0.011	0.013	-0.010	0.016	-0.015	0.016
rs159961	1	8484228	T	C	0.012	0.002	0.027	0.013	0.037	0.017	0.022	0.017
rs1318408	1	11925781	G	A	0.016	0.003	-0.035	0.020	-0.026	0.025	-0.040	0.025
rs3766823	1	32197257	A	G	0.017	0.002	-0.022	0.017	-0.016	0.022	-0.029	0.021
rs2050256	1	32204683	G	A	0.016	0.002	-0.025	0.017	-0.021	0.022	-0.031	0.021
rs6686901	1	42436054	C	T	0.012	0.002	-0.002	0.012	0.000	0.016	0.001	0.016
rs138556772	1	46174888	G	A	0.027	0.004	-0.049	0.034	-0.020	0.044	-0.059	0.043
rs1167309	1	49997674	C	T	0.014	0.002	-0.049	0.013	-0.043	0.017	-0.053	0.017
rs12566626	1	50499636	T	C	0.013	0.002	-0.048	0.013	-0.041	0.017	-0.050	0.017
rs1013293	1	62570321	G	A	0.014	0.002	-0.009	0.013	0.001	0.016	-0.014	0.016
rs12140153	1	62579891	G	T	0.025	0.003	0.042	0.024	0.071	0.031	0.026	0.030
rs2186120	1	66453163	A	G	0.010	0.002	-0.010	0.012	-0.018	0.016	0.001	0.016
rs2815764	1	72754123	G	A	0.020	0.002	0.015	0.016	0.010	0.021	0.003	0.020
rs12039708	1	77947009	T	C	0.016	0.002	-0.029	0.016	-0.059	0.021	0.010	0.021
rs34517439	1	78450517	A	C	0.021	0.003	-0.068	0.021	-0.125	0.027	-0.013	0.026
rs6688826	1	80812329	C	T	0.011	0.002	0.018	0.014	0.035	0.018	0.014	0.017
rs2181375	1	96940119	G	A	0.015	0.002	-0.008	0.013	-0.013	0.016	-0.008	0.016
rs12072739	1	98315893	G	A	0.014	0.002	0.004	0.015	0.013	0.019	-0.009	0.019
rs2077569	1	103350876	G	A	0.011	0.002	0.004	0.013	-0.005	0.016	0.014	0.016
rs1730858	1	107619244	T	C	0.011	0.002	-0.046	0.013	-0.025	0.017	-0.057	0.017
rs17024393	1	110154688	C	T	0.047	0.006	-0.057	0.039	-0.058	0.050	-0.055	0.049
rs2306937	1	113246506	C	T	0.015	0.002	-0.052	0.015	-0.067	0.020	-0.030	0.020
rs11205303	1	149906413	C	T	0.017	0.002	0.004	0.013	0.013	0.017	-0.004	0.017
rs143453062	1	150340182	A	G	0.031	0.004	-0.027	0.030	-0.019	0.038	-0.028	0.038
rs114529840	1	150457517	T	G	0.031	0.004	-0.033	0.031	-0.031	0.039	-0.024	0.039
rs146468719	1	151000790	A	C	0.013	0.002	0.059	0.017	0.062	0.021	0.050	0.021
rs35154152	1	155172725	T	C	0.020	0.003	-0.027	0.020	-0.027	0.026	-0.037	0.026
rs61813324	1	156049877	T	C	0.017	0.003	-0.012	0.020	-0.014	0.026	-0.013	0.026
rs148137538	1	173399677	A	G	0.034	0.006	-0.024	0.045	-0.065	0.057	0.021	0.058
rs77560793	1	175001179	G	A	0.031	0.005	0.000	0.037	-0.031	0.047	0.020	0.047

rs543874	1	177889480	G	A	0.028	0.002	-0.027	0.016	-0.004	0.020	-0.045	0.020
rs9425633	1	184657251	C	T	0.012	0.002	-0.014	0.012	-0.016	0.016	-0.018	0.016
rs672313	1	195142845	G	A	0.014	0.002	0.004	0.015	0.005	0.020	0.008	0.019
rs2678204	1	201800511	G	T	0.014	0.002	0.020	0.013	0.019	0.017	0.022	0.017
rs11119208	1	209211968	A	G	0.011	0.002	0.004	0.013	0.007	0.016	0.004	0.016
rs78508049	1	210344884	C	T	0.014	0.002	0.011	0.016	-0.018	0.020	0.038	0.020
rs2494196	1	219762581	A	C	0.022	0.002	0.021	0.014	0.006	0.018	0.046	0.018
rs12133169	1	219792380	A	G	0.018	0.002	0.019	0.015	-0.002	0.020	0.043	0.019
rs12042959	1	243533273	A	G	0.016	0.002	-0.019	0.018	0.003	0.023	-0.020	0.023
rs62106258	2	417167	T	C	0.049	0.004	0.011	0.032	0.042	0.042	-0.021	0.040
rs13393304	2	637830	G	A	0.028	0.002	-0.023	0.016	-0.010	0.021	-0.031	0.021
rs11096549	2	16607101	T	C	0.012	0.002	-0.007	0.014	-0.008	0.018	-0.017	0.018
rs141240885	2	24449850	T	G	0.024	0.004	0.001	0.027	0.026	0.036	-0.028	0.034
rs6752378	2	25150116	A	C	0.022	0.002	0.080	0.012	0.106	0.016	0.057	0.016
rs76286777	2	25195577	C	T	0.023	0.002	0.100	0.015	0.125	0.020	0.077	0.019
rs1731260	2	26953354	T	G	0.012	0.002	0.002	0.012	-0.020	0.016	0.020	0.016
rs11678385	2	30492847	G	A	0.010	0.002	0.027	0.013	0.045	0.016	0.012	0.016
rs10172196	2	36780549	A	G	0.013	0.002	-0.006	0.014	0.005	0.017	-0.002	0.017
rs10169594	2	41637688	C	T	0.013	0.002	0.032	0.013	0.037	0.017	0.032	0.017
rs113019802	2	46884824	G	A	0.014	0.002	-0.009	0.015	0.011	0.019	-0.023	0.019
rs2436772	2	47283557	G	A	0.015	0.002	0.014	0.015	0.033	0.020	0.003	0.020
rs13406839	2	50735433	A	G	0.011	0.002	0.003	0.013	-0.004	0.016	0.001	0.016
rs13387836	2	55278559	T	C	0.012	0.002	0.000	0.014	0.034	0.018	-0.025	0.017
rs1559556	2	57332617	G	A	0.011	0.002	0.013	0.013	0.016	0.017	0.009	0.016
rs7608397	2	58769042	G	T	0.011	0.002	0.015	0.013	0.026	0.016	0.005	0.016
rs11125768	2	59306564	T	C	0.015	0.002	0.002	0.013	0.010	0.016	0.002	0.016
rs6739755	2	59330227	A	G	0.015	0.002	0.006	0.013	0.014	0.016	0.007	0.016
rs12477088	2	67841326	T	C	0.012	0.002	0.026	0.013	0.009	0.016	0.053	0.016
rs3552	2	69698158	A	G	0.013	0.002	-0.004	0.013	-0.011	0.016	-0.009	0.016
rs12619178	2	100838157	C	T	0.014	0.002	0.002	0.013	-0.018	0.016	0.011	0.016
rs6730157	2	135907088	A	G	0.013	0.002	0.022	0.015	0.016	0.019	0.028	0.019
rs1446585	2	136407479	A	G	0.015	0.002	0.011	0.015	0.017	0.019	0.007	0.019
rs10181181	2	161087411	C	T	0.012	0.002	-0.025	0.014	-0.024	0.018	-0.020	0.017
rs6717858	2	165539661	C	T	0.018	0.002	0.007	0.013	0.008	0.016	0.009	0.016
rs12477385	2	166144850	G	T	0.012	0.002	-0.023	0.015	-0.022	0.020	-0.021	0.019
rs4668314	2	171631258	G	T	0.010	0.002	0.019	0.013	0.020	0.016	0.010	0.016
rs2129475	2	172916772	G	A	0.011	0.002	0.005	0.013	0.021	0.017	-0.018	0.016
rs79869125	2	176422238	G	T	0.019	0.003	0.020	0.020	0.012	0.026	0.021	0.026
rs12622267	2	181568007	A	G	0.013	0.002	0.007	0.013	0.014	0.017	-0.003	0.017
rs7570258	2	193791720	C	T	0.010	0.002	-0.002	0.012	-0.009	0.016	-0.006	0.016
rs2043016	2	198146381	T	C	0.011	0.002	0.027	0.013	0.048	0.017	0.003	0.017
rs4482463	2	205375909	C	A	0.022	0.003	0.010	0.023	0.004	0.030	0.006	0.029
rs2712169	2	217671349	G	A	0.011	0.002	-0.010	0.013	-0.009	0.016	-0.007	0.016
rs2943650	2	227105921	C	T	0.015	0.002	0.017	0.013	0.011	0.017	0.024	0.016
rs4321353	2	229003882	T	G	0.014	0.002	-0.017	0.013	-0.003	0.017	-0.026	0.017
rs10498240	2	230734531	A	C	0.016	0.002	-0.009	0.013	-0.007	0.017	-0.010	0.017
rs62246314	3	9504099	A	G	0.017	0.003	0.012	0.020	0.017	0.026	0.010	0.026
rs4684847	3	12386337	T	C	0.030	0.003	0.007	0.019	-0.008	0.025	0.015	0.024
rs7649970	3	12392272	T	C	0.031	0.003	0.006	0.019	-0.008	0.025	0.014	0.024
rs4684848	3	12395645	A	G	0.030	0.003	0.003	0.019	-0.009	0.025	0.010	0.024
rs4619804	3	18674644	C	A	0.013	0.002	0.039	0.014	0.047	0.018	0.045	0.018

rs13062093	3	35667057	G	T	0.012	0.002	0.010	0.013	0.017	0.016	0.000	0.016
rs1348252	3	42418752	C	T	0.012	0.002	0.009	0.014	-0.001	0.019	0.010	0.018
rs7637852	3	44041777	A	G	0.013	0.002	0.000	0.014	0.019	0.017	-0.021	0.017
rs62259939	3	49386047	A	G	0.013	0.002	-0.101	0.013	-0.140	0.016	-0.060	0.016
rs73079014	3	49863483	C	T	0.015	0.003	-0.130	0.019	-0.130	0.025	-0.135	0.024
rs3774581	3	53802748	A	G	0.011	0.002	0.021	0.014	0.002	0.017	0.038	0.017
rs17639546	3	61251635	G	A	0.014	0.002	0.016	0.018	-0.008	0.023	0.038	0.023
rs9968060	3	62471282	T	C	0.012	0.002	-0.030	0.013	-0.025	0.017	-0.035	0.017
rs66815886	3	64703394	T	G	0.012	0.002	0.004	0.014	-0.006	0.018	0.005	0.018
rs7630228	3	71681487	T	C	0.011	0.002	0.005	0.013	0.009	0.017	0.002	0.016
rs9856109	3	82563862	T	C	0.011	0.002	0.009	0.013	0.004	0.017	0.007	0.017
rs114712833	3	84139974	C	T	0.021	0.004	-0.001	0.024	-0.013	0.031	-0.004	0.031
rs3911063	3	85906928	T	C	0.013	0.002	-0.032	0.013	-0.042	0.017	-0.030	0.017
rs35714284	3	93529866	G	A	0.012	0.002	0.004	0.013	-0.004	0.017	0.004	0.017
rs1609906	3	94033599	G	A	0.016	0.002	0.016	0.012	0.023	0.016	0.002	0.016
rs10934646	3	123084541	A	G	0.013	0.002	0.014	0.013	0.020	0.017	0.017	0.016
rs9820766	3	123264017	C	T	0.012	0.002	-0.026	0.013	-0.024	0.017	-0.031	0.017
rs9816797	3	131614595	G	A	0.014	0.002	-0.020	0.014	-0.004	0.018	-0.030	0.018
rs7635592	3	131718029	T	C	0.016	0.002	0.008	0.015	0.013	0.020	0.019	0.020
rs2042864	3	141178979	C	T	0.012	0.002	0.036	0.013	0.066	0.016	0.011	0.016
rs1568489	3	153673681	G	A	0.012	0.002	0.008	0.013	0.033	0.016	-0.008	0.016
rs8192675	3	170724883	C	T	0.011	0.002	-0.009	0.014	-0.009	0.018	-0.011	0.017
rs12635614	3	173113041	A	G	0.010	0.002	-0.001	0.013	0.011	0.016	-0.014	0.016
rs2606228	3	183537759	A	C	0.012	0.002	-0.002	0.013	-0.004	0.017	0.002	0.017
rs9867130	3	185729753	G	A	0.016	0.003	-0.005	0.018	-0.008	0.024	0.002	0.023
rs2192527	4	18329824	G	A	0.014	0.002	-0.009	0.012	-0.001	0.016	-0.020	0.016
rs28602597	4	20112947	A	G	0.019	0.003	0.011	0.019	0.012	0.024	0.002	0.024
rs34811474	4	25408838	G	A	0.014	0.002	0.032	0.016	0.047	0.021	0.030	0.021
rs73213501	4	28514830	A	C	0.015	0.002	0.010	0.016	0.018	0.021	0.002	0.021
rs10938398	4	45186139	A	G	0.019	0.002	-0.008	0.013	-0.006	0.016	-0.005	0.016
rs2102278	4	52818664	G	A	0.011	0.002	0.007	0.014	0.018	0.018	0.009	0.017
rs6840236	4	56289785	C	T	0.012	0.002	0.003	0.012	-0.003	0.016	0.004	0.016
rs2318543	4	67803263	A	G	0.012	0.002	0.024	0.015	0.019	0.019	0.025	0.019
rs58125425	4	73550383	T	C	0.023	0.004	-0.017	0.026	-0.041	0.034	0.004	0.033
rs12503232	4	80911468	A	C	0.013	0.002	0.024	0.014	0.029	0.018	0.029	0.018
rs7692359	4	83209346	T	C	0.013	0.002	0.011	0.015	0.022	0.019	0.002	0.019
rs3796658	4	89708241	G	A	0.012	0.002	0.000	0.012	-0.001	0.016	0.007	0.016
rs1229984	4	100239319	C	T	0.035	0.006	0.011	0.033	0.004	0.042	0.040	0.043
rs13126505	4	102865304	A	G	0.030	0.003	0.112	0.024	0.170	0.031	0.079	0.031
rs13107325	4	103188709	T	C	0.037	0.003	0.113	0.023	0.201	0.028	0.033	0.030
rs11099020	4	130724902	C	T	0.011	0.002	-0.030	0.013	-0.027	0.017	-0.028	0.017
rs1296328	4	137083193	A	C	0.010	0.002	0.011	0.013	0.004	0.017	0.015	0.016
rs7720791	5	50361133	G	A	0.011	0.002	-0.011	0.014	0.008	0.017	-0.027	0.017
rs6861649	5	50864788	C	T	0.011	0.002	-0.007	0.013	-0.010	0.016	-0.011	0.016
rs157845	5	55796639	T	C	0.012	0.002	0.002	0.014	-0.010	0.019	0.020	0.018
rs7736910	5	63040773	G	A	0.012	0.002	0.005	0.013	0.014	0.016	-0.014	0.016
rs6893495	5	64409378	T	C	0.013	0.002	0.018	0.015	0.037	0.020	0.003	0.020
rs249612	5	66200783	T	C	0.012	0.002	0.015	0.014	-0.001	0.018	0.027	0.018
rs4976033	5	67714246	A	G	0.012	0.002	-0.017	0.013	-0.010	0.017	-0.012	0.017
rs4704187	5	74480288	T	C	0.014	0.002	0.009	0.013	-0.011	0.017	0.027	0.016
rs13356670	5	74673707	A	G	0.018	0.002	0.011	0.015	0.007	0.019	0.012	0.019

rs2307111	5	75003678	T	C	0.017	0.002	0.009	0.013	-0.011	0.016	0.030	0.016
rs59893724	5	80830788	A	G	0.013	0.002	0.007	0.015	0.013	0.019	-0.002	0.019
rs34580448	5	82810884	T	C	0.032	0.004	0.018	0.031	0.027	0.040	-0.012	0.040
rs11951885	5	86727566	C	T	0.036	0.006	-0.030	0.040	-0.043	0.051	-0.023	0.051
rs6870983	5	87697533	C	T	0.014	0.002	0.007	0.015	0.025	0.019	-0.003	0.019
rs34483452	5	87986314	A	C	0.024	0.003	-0.028	0.018	-0.006	0.023	-0.042	0.023
rs59399491	5	92560816	G	A	0.013	0.002	0.008	0.016	-0.010	0.020	0.027	0.020
rs11135450	5	95554016	G	A	0.011	0.002	0.024	0.013	0.004	0.017	0.034	0.017
rs254024	5	103944020	T	G	0.010	0.002	0.013	0.012	0.002	0.016	0.017	0.016
rs40067	5	107439012	G	A	0.017	0.002	0.022	0.016	0.027	0.021	0.007	0.021
rs4502882	5	153093998	C	T	0.012	0.002	0.000	0.013	0.029	0.017	-0.028	0.017
rs2964481	5	157892530	T	C	0.015	0.002	0.022	0.014	0.034	0.018	0.005	0.018
rs245775	5	170532105	G	A	0.013	0.002	-0.015	0.014	-0.005	0.018	-0.020	0.018
rs10947793	6	12142817	A	G	0.012	0.002	0.001	0.013	-0.015	0.017	0.021	0.017
rs1042317	6	20492995	T	C	0.011	0.002	-0.022	0.014	-0.044	0.018	-0.006	0.018
rs75499503	6	26145217	C	T	0.025	0.002	-0.043	0.015	-0.023	0.020	-0.053	0.019
rs7766641	6	26184102	G	A	0.024	0.002	-0.012	0.014	0.020	0.018	-0.031	0.018
rs72843644	6	27211601	A	C	0.021	0.003	-0.006	0.022	0.038	0.029	-0.039	0.028
rs6902687	6	28413491	C	T	0.010	0.002	-0.023	0.013	0.006	0.017	-0.051	0.017
rs62395827	6	31786730	C	T	0.023	0.003	0.009	0.022	-0.061	0.028	0.064	0.028
rs1061801	6	33282338	A	G	0.014	0.002	-0.011	0.016	-0.021	0.021	-0.002	0.020
rs59137082	6	33732365	C	T	0.012	0.002	-0.013	0.014	-0.006	0.019	-0.025	0.018
rs2744956	6	34618937	C	T	0.025	0.003	-0.039	0.018	-0.032	0.023	-0.052	0.023
rs9469887	6	34758940	T	C	0.021	0.002	-0.017	0.013	0.002	0.017	-0.028	0.017
rs2064317	6	35477032	A	G	0.015	0.002	0.043	0.013	0.044	0.017	0.034	0.017
rs9471333	6	40362023	C	T	0.016	0.002	0.026	0.013	0.018	0.016	0.040	0.016
rs73737608	6	50376763	G	A	0.023	0.004	0.051	0.028	0.057	0.037	0.039	0.036
rs4715208	6	50829471	G	A	0.017	0.002	-0.015	0.014	-0.021	0.018	-0.020	0.018
rs1928185	6	50935513	C	T	0.023	0.002	0.005	0.017	0.000	0.021	0.008	0.021
rs1414506	6	51487416	T	C	0.011	0.002	-0.003	0.013	0.003	0.017	-0.010	0.017
rs13191298	6	70010225	G	A	0.016	0.003	0.028	0.019	0.039	0.024	0.016	0.024
rs62422090	6	97944199	A	G	0.012	0.002	-0.006	0.014	-0.030	0.018	0.011	0.018
rs9320823	6	98429337	C	T	0.017	0.002	0.001	0.013	-0.009	0.016	0.000	0.016
rs9375188	6	98555272	C	T	0.017	0.002	0.008	0.012	0.012	0.016	-0.005	0.016
rs314279	6	105402083	C	A	0.016	0.003	0.019	0.020	0.009	0.026	0.020	0.026
rs6927268	6	108865663	T	G	0.014	0.002	-0.010	0.015	-0.020	0.020	-0.004	0.020
rs9400479	6	111826959	G	T	0.014	0.002	-0.009	0.016	0.007	0.021	-0.027	0.020
rs111743285	6	127048230	T	C	0.016	0.002	0.059	0.015	0.067	0.020	0.052	0.019
rs72959041	6	127454893	G	A	0.025	0.004	0.026	0.031	-0.018	0.039	0.090	0.039
rs9321191	6	130165691	T	C	0.013	0.002	0.008	0.015	-0.001	0.020	0.020	0.020
rs72995085	6	143193971	T	C	0.014	0.002	-0.010	0.016	-0.022	0.021	0.001	0.021
rs4709745	6	164105984	C	T	0.011	0.002	0.015	0.013	0.013	0.017	0.010	0.017
rs2529050	7	24595823	C	T	0.011	0.002	0.006	0.014	0.021	0.018	-0.004	0.017
rs10259620	7	27202289	A	G	0.016	0.002	0.062	0.015	0.046	0.020	0.083	0.019
rs10264581	7	27255417	G	A	0.025	0.004	0.041	0.026	0.054	0.034	0.032	0.033
rs215669	7	32378979	G	A	0.011	0.002	0.005	0.013	0.001	0.016	-0.004	0.016
rs4549685	7	39326478	C	T	0.013	0.002	-0.004	0.013	-0.002	0.017	0.005	0.017
rs2289379	7	44804225	C	T	0.012	0.002	-0.041	0.013	-0.042	0.017	-0.032	0.016
rs6948959	7	50697051	G	A	0.012	0.002	-0.003	0.015	-0.013	0.019	0.008	0.019
rs4718964	7	70038969	T	G	0.012	0.002	-0.010	0.013	-0.014	0.016	-0.003	0.016
rs6955671	7	74489486	C	T	0.011	0.002	-0.063	0.016	-0.075	0.020	-0.055	0.020

rs62477684	7	75101427	C	T	0.013	0.002	-0.041	0.013	-0.035	0.017	-0.053	0.017
rs3901286	7	99107727	C	A	0.016	0.002	-0.019	0.017	-0.014	0.022	-0.025	0.022
rs3847072	7	105091519	G	A	0.012	0.002	-0.017	0.016	-0.013	0.021	-0.027	0.021
rs6946860	7	112953475	A	G	0.013	0.002	-0.009	0.013	-0.042	0.017	0.020	0.017
rs80172389	7	114432036	G	T	0.018	0.003	0.010	0.022	0.039	0.028	-0.002	0.028
rs972283	7	130466854	A	G	0.013	0.002	0.027	0.013	0.025	0.016	0.035	0.016
rs6977416	7	150542711	G	A	0.012	0.002	-0.013	0.013	-0.022	0.017	0.004	0.017
rs11782341	8	4813459	G	A	0.014	0.002	-0.010	0.016	-0.007	0.020	-0.017	0.020
rs13268133	8	9731470	T	C	0.012	0.002	0.002	0.013	0.010	0.017	-0.006	0.017
rs11786089	8	21975521	G	A	0.012	0.002	-0.005	0.013	-0.013	0.016	-0.002	0.016
rs11781222	8	23389571	T	C	0.017	0.003	0.032	0.018	-0.005	0.023	0.059	0.023
rs59104534	8	25666169	T	C	0.011	0.002	-0.026	0.014	-0.016	0.018	-0.039	0.018
rs2725370	8	30852826	T	C	0.013	0.002	0.025	0.013	0.026	0.017	0.018	0.017
rs1808629	8	73435964	G	A	0.016	0.002	-0.018	0.013	-0.005	0.017	-0.026	0.017
rs2977345	8	76725867	C	T	0.015	0.002	-0.003	0.014	-0.003	0.017	-0.014	0.017
rs10100245	8	77226919	A	G	0.015	0.002	0.003	0.013	0.007	0.016	-0.007	0.016
rs879256	8	78893942	A	G	0.011	0.002	0.002	0.013	0.000	0.017	-0.005	0.016
rs2721963	8	116661174	A	C	0.014	0.002	-0.008	0.013	-0.011	0.017	-0.001	0.017
rs4876611	8	116671848	G	A	0.016	0.002	-0.018	0.014	-0.024	0.018	-0.006	0.018
rs4466418	8	126323787	A	G	0.011	0.002	0.016	0.013	0.011	0.016	0.020	0.016
rs2954033	8	126493746	G	A	0.011	0.002	0.026	0.014	0.062	0.017	0.003	0.017
rs10959841	9	11469190	T	C	0.011	0.002	0.009	0.013	0.019	0.016	-0.002	0.016
rs7046483	9	14777395	G	A	0.010	0.002	0.022	0.013	0.017	0.016	0.032	0.016
rs10962016	9	15389970	G	A	0.024	0.004	-0.025	0.027	-0.027	0.035	-0.019	0.035
rs13292699	9	15910044	A	C	0.021	0.002	0.008	0.013	0.009	0.016	0.009	0.016
rs1415475	9	16591502	T	C	0.024	0.004	0.021	0.025	-0.015	0.032	0.035	0.032
rs10756798	9	16739763	C	T	0.014	0.002	0.033	0.013	0.033	0.017	0.040	0.017
rs17770336	9	28414625	T	C	0.015	0.002	0.017	0.013	0.024	0.017	0.015	0.017
rs7848702	9	31210051	T	C	0.012	0.002	0.001	0.014	0.005	0.018	0.009	0.018
rs10973160	9	36994969	C	T	0.011	0.002	-0.011	0.014	-0.018	0.018	0.001	0.018
rs12339822	9	92187178	G	A	0.014	0.002	-0.010	0.013	-0.020	0.016	0.000	0.016
rs10820739	9	99263821	A	G	0.013	0.002	0.001	0.016	0.000	0.021	-0.006	0.020
rs11012732	10	21830104	G	A	0.018	0.002	0.025	0.013	0.015	0.017	0.022	0.017
rs7078183	10	70367452	C	A	0.010	0.002	-0.010	0.013	0.008	0.016	-0.021	0.016
rs10999456	10	72413827	T	C	0.016	0.002	0.008	0.014	0.008	0.018	0.004	0.018
rs10999460	10	72428283	T	C	0.016	0.002	0.005	0.014	0.006	0.018	0.003	0.018
rs2002023	10	76848524	T	C	0.012	0.002	0.007	0.013	0.013	0.016	-0.003	0.016
rs11594905	10	77659733	A	G	0.015	0.003	0.039	0.021	-0.010	0.027	0.060	0.026
rs10887582	10	88110792	C	T	0.010	0.002	-0.003	0.013	-0.017	0.016	0.006	0.016
rs11187838	10	96038686	G	A	0.014	0.002	-0.020	0.013	-0.009	0.016	-0.021	0.016
rs4110517	10	96650328	G	A	0.012	0.002	-0.017	0.015	-0.029	0.019	-0.009	0.019
rs577525	10	99769388	C	T	0.014	0.002	0.023	0.013	0.053	0.016	0.006	0.016
rs41310284	10	102447647	C	A	0.018	0.003	-0.007	0.022	0.019	0.028	-0.030	0.027
rs6585201	10	114768783	G	A	0.011	0.002	-0.003	0.013	-0.010	0.016	-0.001	0.016
rs1225404	10	114914665	C	T	0.011	0.002	0.003	0.014	0.010	0.018	0.001	0.018
rs10510025	10	118650996	T	C	0.013	0.002	-0.040	0.014	-0.047	0.018	-0.039	0.018
rs4752182	10	120397131	A	G	0.010	0.002	0.011	0.013	0.006	0.016	0.013	0.016
rs12218858	10	126474200	T	C	0.010	0.002	0.049	0.013	0.056	0.016	0.038	0.016
rs2172131	10	133978962	T	C	0.011	0.002	-0.006	0.013	-0.008	0.016	-0.009	0.016
rs11042030	11	8690718	T	C	0.013	0.002	0.005	0.014	0.028	0.018	-0.019	0.018
rs11042725	11	10325325	A	C	0.011	0.002	-0.001	0.013	0.001	0.016	0.007	0.016

rs10767659	11	27686196	G	T	0.020	0.002	0.002	0.013	-0.011	0.017	0.004	0.017
rs11030108	11	27695464	A	G	0.021	0.002	-0.004	0.014	-0.021	0.018	0.002	0.017
rs71474196	11	46977160	C	T	0.016	0.003	-0.038	0.020	-0.055	0.026	-0.017	0.026
rs7124681	11	47529947	A	C	0.022	0.002	0.016	0.013	0.026	0.016	0.012	0.016
rs12146571	11	48314077	C	T	0.014	0.002	0.021	0.018	0.005	0.022	0.044	0.023
rs477895	11	64048912	T	C	0.015	0.002	-0.019	0.017	-0.025	0.022	-0.007	0.021
rs801742	11	65914766	C	A	0.015	0.002	0.005	0.013	0.027	0.017	-0.014	0.016
rs1213257	11	85220773	C	T	0.014	0.002	0.000	0.017	0.029	0.022	-0.024	0.021
rs61903695	11	89922417	G	A	0.012	0.002	0.010	0.014	0.020	0.019	0.006	0.018
rs3802851	11	112912550	T	C	0.012	0.002	0.017	0.014	0.027	0.018	0.006	0.018
rs719802	11	113234679	T	C	0.011	0.002	0.001	0.013	-0.009	0.017	0.000	0.016
rs4545564	11	118937518	C	T	0.011	0.002	0.003	0.013	0.009	0.016	0.001	0.016
rs10791109	11	130850377	G	T	0.011	0.002	-0.005	0.012	0.015	0.016	-0.018	0.016
rs55726687	12	991306	A	G	0.014	0.002	0.032	0.015	0.033	0.020	0.036	0.020
rs765123	12	2155997	G	A	0.012	0.002	-0.018	0.016	-0.018	0.020	-0.014	0.020
rs7296615	12	3350679	A	G	0.021	0.003	0.006	0.022	0.012	0.028	0.003	0.028
rs12367809	12	50256063	T	C	0.019	0.002	0.016	0.013	0.014	0.017	0.018	0.016
rs7132908	12	50263148	A	G	0.019	0.002	0.013	0.013	0.012	0.017	0.011	0.016
rs4759318	12	54420098	T	C	0.011	0.002	0.008	0.013	0.036	0.017	-0.012	0.017
rs704061	12	89771903	C	T	0.014	0.002	-0.008	0.012	0.021	0.016	-0.035	0.016
rs12813149	12	90142637	G	A	0.015	0.002	-0.012	0.014	-0.026	0.019	-0.002	0.018
rs7975788	12	90273927	G	T	0.012	0.002	-0.034	0.014	-0.039	0.018	-0.027	0.018
rs10777259	12	91248014	C	T	0.010	0.002	-0.011	0.012	-0.022	0.016	-0.001	0.016
rs59066241	12	97925364	G	T	0.016	0.003	0.014	0.019	0.023	0.025	0.011	0.024
rs11113445	12	108088682	G	A	0.012	0.002	0.041	0.013	0.021	0.016	0.057	0.016
rs11609659	12	108296260	T	C	0.014	0.002	-0.016	0.015	0.012	0.019	-0.045	0.019
rs3764002	12	108618630	C	T	0.016	0.002	0.021	0.014	0.041	0.018	0.003	0.018
rs10492229	12	110602173	T	C	0.012	0.002	0.002	0.015	0.003	0.019	0.001	0.019
rs61945850	12	120846213	G	A	0.032	0.005	-0.013	0.035	-0.005	0.046	-0.018	0.044
rs76929617	12	120867798	A	G	0.032	0.005	-0.054	0.042	-0.051	0.053	-0.053	0.054
rs75412871	12	121709430	C	T	0.025	0.004	-0.042	0.028	-0.018	0.037	-0.057	0.036
rs116861199	12	122464941	G	A	0.025	0.003	0.055	0.028	0.034	0.035	0.102	0.036
rs35249105	12	122507810	G	A	0.011	0.002	-0.011	0.013	-0.001	0.016	-0.022	0.016
rs147730268	12	123024476	G	T	0.032	0.003	0.023	0.024	0.039	0.031	0.041	0.030
rs10773394	12	123124778	A	C	0.013	0.002	0.015	0.013	0.012	0.017	0.024	0.017
rs147530811	12	123817477	C	A	0.030	0.005	0.073	0.042	0.069	0.051	0.111	0.054
rs7133378	12	124409502	A	G	0.019	0.002	-0.038	0.013	-0.030	0.017	-0.040	0.017
rs825452	12	124509177	G	A	0.015	0.002	0.011	0.013	0.006	0.017	0.024	0.016
rs11619393	13	20262266	C	T	0.015	0.002	-0.010	0.018	-0.015	0.023	-0.019	0.023
rs1928496	13	31012904	T	C	0.012	0.002	0.000	0.015	0.004	0.019	-0.002	0.018
rs9568867	13	54107352	A	G	0.017	0.003	-0.003	0.019	0.018	0.024	-0.023	0.024
rs7982447	13	54453811	C	T	0.015	0.002	-0.023	0.015	-0.035	0.020	-0.015	0.019
rs7319102	13	58252801	G	A	0.013	0.002	-0.001	0.015	0.004	0.019	0.004	0.019
rs11839227	13	59280705	T	C	0.014	0.002	0.003	0.016	0.007	0.021	-0.013	0.020
rs1218307	13	79417832	G	A	0.011	0.002	0.009	0.013	0.014	0.016	0.008	0.016
rs1441264	13	79580919	A	G	0.012	0.002	-0.024	0.013	-0.032	0.017	-0.017	0.016
rs6491427	13	99113166	A	G	0.015	0.002	0.030	0.014	0.035	0.018	0.021	0.018
rs35413307	13	112191778	G	T	0.012	0.002	0.001	0.013	-0.021	0.017	0.019	0.017
rs9522279	13	112221296	T	C	0.013	0.002	0.015	0.013	0.004	0.016	0.017	0.016
rs4981693	14	29680331	A	G	0.014	0.002	-0.014	0.015	-0.012	0.019	-0.018	0.019
rs1959430	14	30184162	C	T	0.010	0.002	0.018	0.013	0.019	0.016	0.020	0.016

rs61979560	14	30727033	A	C	0.012	0.002	-0.002	0.015	0.009	0.019	-0.022	0.019
rs2239647	14	33292743	A	C	0.013	0.002	-0.012	0.013	-0.011	0.017	-0.017	0.016
rs72681698	14	51207741	T	C	0.050	0.008	0.015	0.071	0.116	0.092	-0.020	0.089
rs61975142	14	59402590	G	A	0.015	0.002	0.035	0.017	0.025	0.021	0.041	0.021
rs12890931	14	69753369	G	T	0.012	0.002	0.000	0.013	0.015	0.017	-0.016	0.016
rs2370982	14	79890677	T	C	0.019	0.002	0.032	0.015	0.017	0.020	0.039	0.019
rs1075472	14	93108131	A	G	0.015	0.002	0.024	0.016	0.047	0.021	0.008	0.020
rs6575340	14	94023972	A	G	0.015	0.002	0.004	0.013	0.004	0.017	-0.001	0.016
rs3803286	14	103246470	A	G	0.013	0.002	0.017	0.013	0.006	0.017	0.036	0.017
rs8042404	15	31680016	A	G	0.012	0.002	-0.002	0.014	0.011	0.018	-0.014	0.018
rs28538451	15	41455769	A	C	0.013	0.002	-0.047	0.014	0.009	0.018	-0.091	0.018
rs3751585	15	51741056	A	G	0.013	0.002	0.013	0.016	0.030	0.020	-0.009	0.020
rs117632017	15	52260107	A	G	0.031	0.005	0.025	0.038	0.035	0.050	0.046	0.048
rs2165991	15	53101700	G	A	0.012	0.002	0.006	0.014	0.015	0.018	-0.003	0.018
rs17291497	15	67362994	C	T	0.010	0.002	0.012	0.013	0.047	0.016	-0.018	0.016
rs7166081	15	67492301	A	G	0.015	0.002	0.047	0.015	0.053	0.019	0.046	0.019
rs16951304	15	68089618	T	C	0.020	0.002	-0.001	0.015	0.003	0.020	-0.001	0.019
rs7164727	15	73093991	T	C	0.015	0.002	-0.017	0.013	-0.004	0.017	-0.027	0.017
rs2660824	15	73618309	C	T	0.011	0.002	-0.002	0.013	-0.001	0.016	-0.010	0.016
rs34769775	15	80989172	C	T	0.011	0.002	0.012	0.014	0.034	0.018	-0.002	0.018
rs6602997	15	84521398	T	C	0.022	0.002	-0.015	0.014	-0.022	0.018	-0.005	0.017
rs2135877	15	84663107	G	A	0.021	0.002	0.003	0.013	-0.007	0.017	0.010	0.017
rs62021171	15	85128550	G	A	0.016	0.002	-0.034	0.016	-0.047	0.020	-0.018	0.020
rs1879529	15	89414295	G	T	0.015	0.002	-0.005	0.014	-0.010	0.019	-0.001	0.018
rs57221746	15	99230035	G	A	0.012	0.002	0.015	0.015	0.024	0.019	0.009	0.019
rs72755233	15	100692953	G	A	0.017	0.003	0.024	0.022	0.011	0.028	0.026	0.028
rs412243	16	339672	T	C	0.012	0.002	-0.007	0.013	0.006	0.017	-0.024	0.016
rs181179291	16	2787062	C	A	0.054	0.008	0.067	0.068	0.126	0.091	0.072	0.084
rs879620	16	4015729	T	C	0.016	0.002	-0.032	0.013	-0.038	0.017	-0.029	0.017
rs4785955	16	4297651	T	G	0.013	0.002	0.000	0.015	0.011	0.020	-0.015	0.020
rs7193783	16	4949608	A	C	0.011	0.002	0.025	0.013	0.034	0.017	0.009	0.017
rs4474693	16	20246313	A	G	0.017	0.003	0.047	0.018	0.062	0.024	0.028	0.023
rs200534	16	24752641	A	G	0.015	0.002	0.040	0.014	0.048	0.018	0.038	0.018
rs9939450	16	28301487	T	C	0.014	0.002	0.032	0.013	0.029	0.017	0.026	0.016
rs56186137	16	28825953	G	A	0.023	0.002	0.094	0.013	0.113	0.016	0.073	0.016
rs72798148	16	29926552	T	C	0.018	0.002	-0.004	0.017	-0.025	0.022	0.009	0.022
rs9746755	16	30519628	G	A	0.010	0.002	0.006	0.014	0.003	0.017	0.010	0.017
rs34898535	16	31025641	C	T	0.016	0.002	0.002	0.013	-0.001	0.017	0.001	0.016
rs11642015	16	53802494	T	C	0.040	0.002	0.026	0.013	0.038	0.016	0.013	0.016
rs7202116	16	53821615	G	A	0.039	0.002	0.024	0.013	0.040	0.016	0.008	0.016
rs9940346	16	64716851	C	T	0.011	0.002	0.002	0.013	-0.021	0.017	0.019	0.016
rs11866219	16	69549749	A	C	0.017	0.002	0.032	0.013	0.026	0.016	0.036	0.016
rs889398	16	69556715	C	T	0.016	0.002	0.024	0.013	0.025	0.016	0.026	0.016
rs7191938	16	71407530	G	A	0.012	0.002	0.018	0.014	-0.006	0.017	0.033	0.017
rs2012817	16	72038659	C	T	0.011	0.002	-0.028	0.013	-0.057	0.017	0.002	0.017
rs4411525	16	74595502	A	C	0.010	0.002	-0.031	0.013	-0.031	0.016	-0.030	0.016
rs55637757	16	89535888	C	T	0.018	0.003	0.009	0.019	0.040	0.025	-0.017	0.024
rs77733403	16	90080723	T	C	0.015	0.002	-0.005	0.018	-0.014	0.023	0.002	0.022
rs8082551	17	1310661	C	T	0.017	0.003	0.080	0.020	0.064	0.026	0.103	0.025
rs4790841	17	1835482	C	T	0.022	0.002	-0.015	0.018	-0.001	0.023	-0.029	0.023
rs34356467	17	3978531	T	G	0.014	0.002	0.001	0.016	0.023	0.021	-0.015	0.021

	rs9902386	17	21280185	T	G	0.012	0.002	-0.020	0.014	-0.019	0.018	-0.019	0.017
	rs71371126	17	28002642	A	G	0.012	0.002	0.005	0.013	-0.014	0.017	0.023	0.017
	rs11872020	17	28553489	A	G	0.013	0.002	0.014	0.013	-0.012	0.017	0.033	0.017
	rs2855818	17	42290015	A	G	0.017	0.002	-0.029	0.015	-0.062	0.019	-0.007	0.019
	rs8074938	17	43153006	A	G	0.011	0.002	0.025	0.013	0.031	0.017	0.028	0.017
	rs17698176	17	44819595	G	T	0.012	0.002	0.006	0.016	0.019	0.021	-0.017	0.021
	rs208015	17	46252346	T	C	0.025	0.003	0.004	0.024	-0.035	0.032	0.033	0.031
	rs11079852	17	47095041	G	A	0.013	0.002	0.002	0.013	0.013	0.017	-0.005	0.017
	rs12602556	17	65826861	G	A	0.022	0.002	-0.030	0.016	-0.004	0.020	-0.053	0.020
	rs11150745	17	78757626	A	G	0.013	0.002	0.008	0.013	0.011	0.017	-0.002	0.017
	rs11873650	18	13163903	G	A	0.011	0.002	-0.008	0.014	-0.016	0.018	-0.005	0.017
	rs111581974	18	22205000	C	T	0.016	0.002	-0.016	0.016	0.001	0.021	-0.032	0.021
	rs2052607	18	40788387	G	A	0.015	0.002	-0.002	0.013	-0.030	0.017	0.012	0.017
	rs11876574	18	42595844	T	C	0.012	0.002	-0.009	0.014	-0.024	0.018	0.006	0.017
	rs12967878	18	57826570	C	T	0.024	0.002	0.010	0.015	0.033	0.019	-0.006	0.019
	rs538656	18	57850422	T	G	0.023	0.002	0.004	0.015	0.032	0.019	-0.015	0.019
	rs111718521	18	58085845	G	A	0.072	0.007	-0.070	0.050	-0.056	0.066	-0.086	0.063
	rs193239997	18	58639547	T	C	0.046	0.007	-0.060	0.048	-0.017	0.064	-0.135	0.061
	rs350832	19	4069426	A	G	0.015	0.002	-0.047	0.015	-0.076	0.020	-0.026	0.020
	rs273507	19	18221964	C	A	0.018	0.002	0.015	0.014	0.005	0.018	0.029	0.018
	rs10404726	19	18834514	C	T	0.013	0.002	0.007	0.013	-0.004	0.016	0.018	0.016
	rs62104483	19	30300017	A	G	0.013	0.002	-0.009	0.013	-0.001	0.017	-0.024	0.017
	rs12610925	19	33880349	G	A	0.017	0.002	-0.001	0.013	0.021	0.017	-0.019	0.017
	rs33836	19	34008600	C	T	0.017	0.002	0.020	0.013	0.047	0.016	-0.002	0.016
	rs6857	19	45392254	C	T	0.016	0.002	-0.016	0.018	-0.015	0.023	0.003	0.023
	rs429358	19	45411941	T	C	0.017	0.002	-0.010	0.019	-0.005	0.024	0.007	0.024
	rs11672660	19	46180184	C	T	0.023	0.002	0.019	0.016	0.021	0.021	0.027	0.020
	rs3810291	19	47569003	A	G	0.012	0.002	-0.025	0.013	0.006	0.017	-0.060	0.017
	rs7020	20	25278600	A	G	0.013	0.002	-0.003	0.013	0.028	0.016	-0.026	0.016
	rs819168	20	32903845	G	T	0.021	0.004	-0.030	0.025	0.003	0.032	-0.064	0.031
	rs17265513	20	39832628	C	T	0.013	0.002	0.061	0.016	0.054	0.021	0.080	0.020
	rs6103254	20	41990761	T	C	0.016	0.003	0.025	0.019	0.034	0.024	0.026	0.024
	rs112852122	20	47498117	G	A	0.018	0.002	-0.002	0.018	0.039	0.023	-0.033	0.023
	rs73142879	20	51195932	C	T	0.015	0.002	0.013	0.016	0.020	0.021	0.003	0.020
	rs1056441	20	62370349	C	T	0.013	0.002	0.117	0.014	0.126	0.018	0.100	0.017
	rs76040172	21	46488959	G	A	0.028	0.004	-0.010	0.029	-0.033	0.038	-0.004	0.036
	rs394608	21	46581798	C	T	0.013	0.002	0.022	0.012	0.019	0.016	0.016	0.016
	rs4820325	22	38599978	G	A	0.017	0.002	0.011	0.013	0.009	0.016	0.017	0.016
	rs202661	22	41812439	A	G	0.013	0.002	0.050	0.015	0.068	0.019	0.039	0.019
	rs10854853	22	48874412	T	G	0.011	0.002	0.046	0.013	0.028	0.016	0.053	0.016
Overall physical activity	rs55657917	17	43844560	G	T	0.037	0.005	-0.045	0.016	-0.057	0.020	-0.041	0.020
	rs2052607	18	40788387	A	G	0.028	0.005	0.002	0.013	0.030	0.017	-0.012	0.017
Vitamin D	rs6698680	1	2329661	A	G	0.012	0.002	-0.0108	0.0131	-0.0199	0.0169	-0.0116	0.0167
	rs11203338	1	17559907	T	C	0.021	0.002	0.0194	0.0131	0.0112	0.0169	0.0291	0.0166
	rs7519574	1	34726552	A	G	0.017	0.003	-0.0069	0.0166	-0.0152	0.0215	0.0023	0.0211
	rs7528419	1	109817192	G	A	0.019	0.002	-0.0111	0.015	-0.0168	0.0194	-0.012	0.0191
	rs3768013	1	150815411	G	A	0.015	0.002	0.0645	0.0129	0.0557	0.0166	0.0659	0.0164
	rs61816761	1	152285861	A	G	0.125	0.007	0.0259	0.0579	0.0557	0.0719	0.0246	0.0743
	rs10796941	1	155284261	T	C	0.018	0.002	0.076	0.0142	0.0986	0.0183	0.0565	0.0182
	rs867772	1	220972343	A	G	0.014	0.002	-0.0333	0.0136	-0.0336	0.0174	-0.0331	0.0173
	rs12997242	2	21381177	G	A	0.013	0.002	-0.0059	0.0125	-0.0226	0.0161	0.008	0.0159

rs11127048	2	27752463	A	G	0.018	0.002	-0.0618	0.0129	-0.0976	0.0167	-0.0362	0.0165
rs6724965	2	101440151	A	G	0.017	0.003	-0.0069	0.0163	-0.0263	0.0211	0.0057	0.0207
rs7569755	2	118648261	A	G	0.014	0.002	-0.011	0.0136	0.0062	0.0175	-0.0252	0.0174
rs1047891	2	211540507	C	A	0.014	0.002	0.0349	0.0137	0.0629	0.0178	0.0135	0.0175
rs2011425	2	234627608	T	G	0.046	0.004	-0.0227	0.0228	-0.0522	0.0289	-0.0142	0.0291
rs1551042	3	85630551	A	C	0.018	0.002	-0.0352	0.013	-0.0315	0.0167	-0.0399	0.0165
rs9859616	3	125149488	A	G	0.014	0.002	-0.0207	0.0147	-0.0086	0.019	-0.034	0.0187
rs6773343	3	141825598	T	C	0.013	0.002	-0.0091	0.0138	0.0091	0.0179	-0.0278	0.0176
rs73080940	4	3482296	T	C	0.018	0.003	0.0207	0.0207	0.017	0.0268	0.0264	0.0262
rs11723621	4	72615362	A	G	0.187	0.002	-0.0164	0.0136	-0.0062	0.0176	-0.0261	0.0174
rs58073039	4	88287363	A	G	0.014	0.002	0.0257	0.0136	0.0326	0.0175	0.0169	0.0173
rs28364331	4	100201295	G	A	0.061	0.007	-0.038	0.0476	-0.0429	0.0618	-0.016	0.06
rs2112325	5	118651979	C	T	0.013	0.002	-0.0038	0.013	0.0104	0.0168	-0.0222	0.0166
rs28459049	7	21567331	C	T	0.015	0.002	0.0087	0.0154	-0.0173	0.0197	0.0301	0.0196
rs1011468	7	104613791	G	A	0.014	0.002	-0.0069	0.0125	-0.0099	0.0161	-0.0134	0.0159
rs1858889	7	107117447	C	A	0.013	0.002	-0.0058	0.0124	-0.0128	0.016	-0.0043	0.0157
rs804280	8	11612698	A	C	0.013	0.002	0.0071	0.0124	0.0278	0.0161	-0.0105	0.0159
rs34726834	8	25889606	T	C	0.014	0.002	-0.0302	0.0142	-0.0154	0.0183	-0.0415	0.0181
rs7828742	8	116960729	A	G	0.022	0.002	0.0236	0.0127	0.012	0.0164	0.0322	0.0161
rs10818771	9	125724054	A	G	0.017	0.003	-0.0026	0.018	0.0117	0.023	-0.0253	0.0229
rs532436	9	136149830	G	A	0.015	0.003	-0.0197	0.0158	-0.0263	0.0204	-0.0101	0.0201
rs10887718	10	82042624	C	T	0.012	0.002	-0.0286	0.0124	-0.0484	0.016	-0.0119	0.0158
rs117913124	11	14900931	G	A	0.354	0.006	-0.026	0.0423	0.0277	0.055	-0.0661	0.0532
rs523583	11	66070146	C	A	0.012	0.002	0.0101	0.0126	-0.0036	0.0161	0.0267	0.0161
rs12803256	11	71132868	G	A	0.1	0.002	0.0061	0.0144	-0.0126	0.0185	0.0267	0.0182
rs1149605	11	76485216	C	T	0.019	0.003	0.0064	0.0168	0.0391	0.0216	-0.0134	0.0215
rs2847500	11	120114421	G	A	0.021	0.003	0.0391	0.0201	0.0078	0.0253	0.0586	0.0259
rs12317268	12	21352541	A	G	0.019	0.003	0.0306	0.017	0.0084	0.0218	0.035	0.0217
rs9668081	12	38602911	T	C	0.012	0.002	0.0106	0.0123	0.0136	0.0159	0.0131	0.0157
rs10859995	12	96375682	T	C	0.039	0.002	-0.0089	0.0125	-0.0195	0.0162	-0.0051	0.016
rs2144530	14	39552484	C	T	0.032	0.003	-0.0221	0.0164	-0.028	0.0211	-0.0207	0.0208
rs1800588	15	58723675	C	T	0.03	0.002	0.0251	0.0154	0.0362	0.0198	0.0122	0.0195
rs17765311	15	63789952	A	C	0.015	0.002	-0.0278	0.013	-0.0299	0.0169	-0.0218	0.0166
rs62007299	15	77711719	G	A	0.014	0.002	0.0352	0.0135	0.0447	0.0174	0.0371	0.0173
rs7205121	16	11908776	C	T	0.013	0.002	-0.0068	0.0143	0.0172	0.0184	-0.0319	0.0182
rs77924615	16	20392332	G	A	0.016	0.002	0.0192	0.0162	-0.0056	0.0209	0.0497	0.0207
rs1800775	16	56995236	C	A	0.017	0.002	0.0085	0.0125	0.0051	0.0162	0.0083	0.016
rs2909218	17	66464546	T	C	0.017	0.002	-0.0025	0.0153	-0.0267	0.0198	0.021	0.0196
rs8091117	18	28919794	C	A	0.024	0.004	-0.0226	0.0245	-0.0555	0.0314	0.0217	0.0313
rs2037511	18	61366207	A	G	0.016	0.003	0.0206	0.0164	0.013	0.0212	0.02	0.021
rs57631352	19	4338173	A	G	0.013	0.002	-0.0229	0.0137	-0.0183	0.0177	-0.0272	0.0174
rs73015021	19	11192915	G	A	0.023	0.003	-0.0181	0.0196	-0.0212	0.0251	0.0011	0.0252
rs10500209	19	11979164	T	C	0.013	0.002	0.04	0.0139	0.0467	0.0179	0.0357	0.0176
rs58542926	19	19379549	T	C	0.032	0.004	0.0025	0.0239	0.027	0.0308	-0.0332	0.0305
rs3814995	19	36342212	C	T	0.015	0.002	0.0126	0.0162	0.0213	0.0206	0.0051	0.0208
rs157595	19	45425460	A	G	0.016	0.002	0.0311	0.0139	0.0276	0.0177	0.0315	0.0178
rs10426	19	51517798	A	G	0.025	0.002	0.0077	0.0154	0.0085	0.0198	7.00E-04	0.0197
rs8103262	19	53065814	C	T	0.013	0.002	-0.0022	0.0137	-2.00E-04	0.0179	0.0024	0.0173
rs17274750	21	16353809	A	C	0.026	0.003	-0.0706	0.0211	-0.0599	0.027	-0.0573	0.0273
rs960596	22	41393520	T	C	0.012	0.002	-0.0312	0.0134	-0.0408	0.0173	-0.0265	0.0171
rs1801133	1	11856378	G	A	0.115	0.008	-0.036	0.013	-0.046	0.017	-0.022	0.017

Vitamin B9 (folate)

	rs652197	11	71849741	C	T	0.069	0.010	0.042	0.019	0.059	0.025	0.021	0.025
Vitamin B12	rs116075662	4	146574155	G	A	0.099	0.015	0.053	0.028	0.048	0.036	0.039	0.036
	rs1141321	6	49412433	C	T	0.070	0.007	-0.008	0.013	-0.026	0.017	0.012	0.016
	rs1801222	10	17156151	G	A	0.119	0.007	-0.012	0.013	-0.014	0.017	-0.006	0.017
	rs34324219	11	59623378	C	A	0.236	0.010	0.007	0.021	0.039	0.028	-0.022	0.027
	rs12272669	11	71392610	A	G	0.510	0.086	-0.001	0.034	-0.046	0.045	0.064	0.043
	rs41281112	13	100518634	C	T	0.181	0.015	-0.076	0.048	-0.047	0.061	-0.114	0.061
	rs3742801	14	74759006	T	C	0.053	0.007	-0.002	0.013	-0.017	0.017	0.017	0.016
	rs2336573	19	8367709	T	C	0.313	0.019	-0.002	0.033	-0.032	0.043	0.021	0.043
	rs602662	19	49206985	A	G	0.171	0.007	0.052	0.013	0.102	0.016	0.013	0.016
	rs1131603	22	31018975	C	T	0.224	0.015	0.019	0.031	-0.012	0.041	0.032	0.039
Omega-3 fatty acids	rs174546	11	61569830	C	T	0.154	0.012	-0.051	0.013	-0.083	0.017	-0.027	0.017
	rs11604424	11	116651115	C	T	0.090	0.014	0.003	0.015	0.001	0.020	-0.005	0.019
	rs1077835	15	58723426	G	A	0.089	0.014	-0.025	0.015	-0.034	0.020	-0.014	0.020
	rs8100204	19	19393714	G	A	0.122	0.020	-0.022	0.019	-0.036	0.025	-0.003	0.025
Omega-6 fatty acids	rs191448950	1	55584844	G	A	0.294	0.036	0.029	0.083	0.006	0.106	0.018	0.108
	rs4344355	1	63153953	C	T	0.093	0.014	-0.026	0.013	-0.065	0.017	0.009	0.017
	rs144064722	4	73406173	G	A	0.237	0.040	-0.036	0.042	-0.034	0.054	-0.043	0.054
	rs79225634	5	74619639	T	C	0.085	0.013	-0.023	0.013	-0.030	0.017	-0.018	0.017
	rs3741298	11	116657561	C	T	0.143	0.015	-0.001	0.016	-0.007	0.020	-0.004	0.020
	rs1800588	15	58723675	T	C	0.143	0.014	-0.025	0.015	-0.036	0.020	-0.012	0.020
	rs112898275	19	11188850	T	C	0.161	0.021	0.014	0.020	0.019	0.025	-0.007	0.025
	rs7412	19	45412079	C	T	0.272	0.028	0.037	0.024	0.011	0.030	0.054	0.030
Monounsaturated fatty acids (mainly omega-9 :	rs115849089	8	19912370	G	A	0.121	0.020	0.016	0.020	0.022	0.025	0.015	0.025
	rs3741298	11	116657561	C	T	0.121	0.014	-0.001	0.016	-0.007	0.020	-0.004	0.020
	rs1800588	15	58723675	T	C	0.130	0.014	-0.025	0.015	-0.036	0.020	-0.012	0.020
	rs56255430	19	19477877	A	C	0.147	0.025	-0.013	0.023	-0.031	0.029	0.011	0.029
Total fatty acids	rs191448950	1	55584844	G	A	0.229	0.036	0.029	0.083	0.006	0.106	0.018	0.108
	rs1168041	1	62960250	C	T	0.085	0.014	-0.029	0.013	-0.067	0.017	0.007	0.017
	rs115849089	8	19912370	G	A	0.118	0.020	0.016	0.020	0.022	0.025	0.015	0.025
	rs3741298	11	116657561	C	T	0.136	0.014	-0.001	0.016	-0.007	0.020	-0.004	0.020
	rs1800588	15	58723675	T	C	0.153	0.014	-0.025	0.015	-0.036	0.020	-0.012	0.020
	rs56289821	19	11188247	G	A	0.122	0.021	0.016	0.020	0.021	0.026	-0.006	0.025
	rs8100204	19	19393714	G	A	0.123	0.020	-0.022	0.019	-0.036	0.025	-0.003	0.025
	rs429358	19	45411941	C	T	0.106	0.016	0.010	0.019	0.005	0.024	-0.007	0.024

Table S2- Results of sensitivity Mendelian randomization methods for observed environmental risk factors on inflammatory bowel diseases (IBD), including Crohn's disease (CD), and ulcerative colitis (UC). OR: Odds ratio. LCI: Lower confidence interval. UCI: Upper confidence interval. P: P value. Phet: P value for SNP heterogeneity

Phenotype	n SNP	Disease	Likelihood-based method					Weighted median				Modal-based method				MR-Egger Simex approach				MR-Egger intercept				MR-PRESSO				
			OR	LCI	UCI	P	Phet	OR	LCI	UCI	P	OR	LCI	UCI	P	I2GX	Est	LCI	UCI	P	P Global	P Distortion	Outlier SNPs					
Lifestyle																												
Smoking status (ever vs never)	331	IBD	1.05	0.97	1.14	0.24	6.3E-34	1.04	0.91	1.18	0.62	0.95	0.68	1.32	0.76	0.76	0.39	1.46	0.40	0.40	0.005	-0.002	0.011	0.15	<1E-04	0.61	r12526390,r13172494,r13764351,r13810496,r141264285,r161886926,r167696533,r177215829	
		CD	1.13	1.02	1.25	0.02	1.8E-24	1.07	0.91	1.27	0.41	1.00	0.62	1.61	1.00	0.73	0.33	1.62	0.43	0.40	0.007	-0.001	0.015	0.10	<1E-04	0.97	r13172494,r1359431,r13764351,r14264285,r161886926,r18103660	
		UC	0.99	0.90	1.10	0.88	3.9E-15	1.09	0.93	1.28	0.30	1.22	0.75	1.98	0.43	0.75	0.36	1.56	0.44	0.40	0.004	-0.004	0.012	0.34	<1E-04	1.00	r17229285,r12526390	
Cigarettes per day	44	IBD	1.04	0.88	1.22	0.67	3.1E-07	1.01	0.78	1.31	0.94	1.03	0.82	1.29	0.80	0.83	0.52	1.33	0.43	0.96	0.007	-0.001	0.014	0.07	1.0E-04	0.19	r13253502,r1293534	
		CD	1.17	0.94	1.44	0.16	1.8E-06	1.04	0.76	1.42	0.82	1.03	0.77	1.38	0.85	0.73	0.41	1.28	0.26	0.96	0.015	0.005	0.024	4.2E-03	<1E-04	0.67	r13253502	
		UC	0.90	0.73	1.10	0.30	0.01	0.91	0.66	1.24	0.55	0.93	0.70	1.23	0.61	0.85	0.52	1.39	0.51	0.96	0.001	-0.008	0.011	0.76	8.7E-03	-	-	
Body-mass index	816	IBD	0.97	0.91	1.04	0.38	1.5E-96	1.07	0.95	1.20	0.26	1.19	0.91	1.54	0.20	1.17	0.84	1.62	0.36	0.85	-0.003	-0.005	0.000	0.07	<1E-04	0.97	r10182181,r110492861,r11065987,r11066188,r111710798,r111713193,r112044597,r113107325,r13800668,r12010281,r12023671,r12726039,r12836754,r14722672,r14985155,r1739742,r17498665,r17560871,r18070454	
		CD	1.11	1.02	1.20	0.02	2.4E-71	1.26	1.09	1.45	1.6E-03	1.49	1.09	2.03	0.01	1.38	0.93	2.07	0.11	0.85	-0.003	-0.007	0.001	0.10	<1E-04	0.82	r10182181,r110492861,r11065987,r11066188,r111710798,r111713193,r112888545,r113107325,r13363695,r117391694,r1800668,r12010281,r12726039,r1350832,r1657452,r1739742,r17498665,r17560871,r18070454,r18492155,r19021595	
		UC	0.85	0.78	0.92	5.2E-05	1.5E-46	0.88	0.76	1.02	0.10	0.92	0.65	1.29	0.61	1.00	0.69	1.44	0.98	0.84	-0.003	-0.006	0.001	0.14	<1E-04	0.47	r11065987,r11066188,r111713193,r112044597,r1300668,r14722672,r14985155,r17498665,r17535528,r18070454	
Waist-to-hip ratio	403	IBD	1.05	0.96	1.14	0.33	3.8E-59	0.92	0.79	1.08	0.31	0.86	0.63	1.18	0.34	0.83	0.52	1.33	0.45	0.83	0.003	-0.001	0.007	0.09	<1E-04	0.19	r10019888,r1017698,r13316065,r12008514,r128445639,r1591939,r17531656,r17591387	
		CD	1.22	1.09	1.37	6.0E-04	2.0E-47	1.10	0.90	1.35	0.35	1.02	0.70	1.48	0.92	1.03	0.58	1.82	0.92	0.83	0.003	-0.002	0.008	0.24	<1E-04	0.10	r10019888,r13316065,r1708302,r1793892,r12008514,r128445639,r13094621,r1591939,r17196397,r17591387	
		UC	0.90	0.81	1.01	0.07	1.3E-26	0.87	0.72	1.04	0.13	0.78	0.50	1.23	0.29	0.72	0.43	1.20	0.20	0.83	0.003	-0.002	0.008	0.26	<1E-04	0.84	r1017698,r11051005,r12008514,r1267846,r1713770	
Body fat percentage	379	IBD	1.26	1.14	1.39	3.8E-06	6.5E-71	1.26	1.06	1.50	0.01	1.49	1.01	2.20	0.04	1.84	0.99	3.41	0.05	0.74	-0.004	-0.009	0.000	0.07	<1E-04	0.16	r1056441,r1167309,r113107325,r156186137,r162259939,r16752378,r16955671,r173079014,r17628677	
		CD	1.50	1.32	1.71	3.0E-10	9.3E-58	1.49	1.21	1.83	1.9E-04	2.01	1.14	3.55	0.02	2.83	1.31	6.14	0.01	0.73	-0.007	-0.014	-0.001	0.02	<1E-04	0.08	r1056441,r113126505,r12012817,r134517439,r156186137,r162259939,r173079014	
		UC	1.11	0.98	1.25	0.11	4.2E-32	1.17	0.94	1.45	0.15	1.22	0.75	1.99	0.41	1.36	0.69	2.68	0.37	0.73	-0.003	-0.009	0.003	0.36	<1E-04	0.82	r10259620,r1056441,r128538451,r156186137,r162259939,r173079014	
Overall physical activity	2	IBD	0.51	0.27	0.98	0.04	0.05	0.53	0.27	1.05	0.07	0.54	0.29	1.02	0.31													
		CD	0.67	0.28	1.56	0.35	1.5E-03	0.70	0.29	1.72	0.44	0.57	0.25	1.32	0.42													
		UC	0.45	0.20	1.00	0.05	0.40	0.45	0.20	1.05	0.07	0.43	0.19	0.97	0.29													
Nutrients																												
Vitamin D	59	IBD	0.96	0.87	1.06	0.38	4.1E-16	0.92	0.81	1.05	0.22	0.93	0.83	1.04	0.21	0.93	0.74	1.17	0.51	0.99	0.002	-0.003	0.007	0.41	<1E-04	0.77	r10796941,r111127048,r13768013	
		CD	0.96	0.85	1.09	0.56	4.0E-14	0.97	0.82	1.15	0.72	0.98	0.85	1.14	0.83	0.97	0.73	1.29	0.82	0.99	-3.E-04	-0.006	0.006	0.92	<1E-04	0.93	r10796941,r111127048	
		UC	0.95	0.83	1.07	0.39	6.2E-07	0.87	0.74	1.02	0.09	0.91	0.79	1.05	0.19	0.91	0.71	1.15	0.40	0.99	0.003	-0.003	0.009	0.34	<1E-04	0.87	r13768013	
Vitamin B9 (folate)	2	IBD	0.83	0.67	1.03	0.09	2.5E-03	0.84	0.67	1.04	0.10	0.75	0.60	0.94	0.24													
		CD	0.80	0.61	1.04	0.10	1.1E-03	0.80	0.61	1.06	0.12	0.70	0.52	0.92	0.24													
		UC	0.89	0.68	1.16	0.37	0.20	0.89	0.67	1.17	0.40	0.84	0.63	1.11	0.43													
Vitamin B12	10	IBD	1.07	1.00	1.15	0.06	0.01	1.01	0.92	1.12	0.83	1.00	0.89	1.12	0.97	1.06	0.83	1.35	0.59	0.98	0.001	-0.023	0.024	0.94	0.01	-	-	
		CD	1.10	1.00	1.21	0.04	8.5E-07	0.93	0.81	1.07	0.32	0.92	0.79	1.07	0.33	1.12	0.71	1.76	0.59	0.98	-0.003	-0.034	0.027	0.80	<1E-04	0.02	r1602662	
		UC	1.06	0.97	1.15	0.21	0.41	1.08	0.97	1.21	0.15	1.09	0.96	1.24	0.21	1.04	0.85	1.26	0.69	0.98	0.005	-0.025	0.035	0.72	0.45	-	-	
Omega-3 fatty acids	4	IBD	0.78	0.68	0.88	1.3E-04	0.29	0.74	0.64	0.86	6.7E-05	0.73	0.62	0.86	0.03	0.53	0.14	1.95	0.17	0.89	0.044	-0.091	0.180	0.30	0.22	-	-	
		CD	0.67	0.56	0.79	2.3E-06	0.18	0.64	0.53	0.79	3.1E-05	0.61	0.49	0.75	0.02	0.36	0.04	2.84	0.17	0.89	0.075	-0.100	0.250	0.21	0.10	-	-	
		UC	0.88	0.75	1.03	0.11	0.90	0.85	0.71	1.01	0.07	0.84	0.69	1.04	0.20	0.77	0.41	1.45	0.22	0.89	0.016	-0.157	0.188	0.74	0.86	-	-	
Omega-6 fatty acids	8	IBD	0.96	0.88	1.05	0.36	0.08	1.00	0.87	1.15	0.97	1.09	0.89	1.32	0.43	1.35	1.05	1.73	0.03	0.92	-0.049	-0.091	-0.008	0.03	0.05	-	-	
		CD	0.87	0.78	0.98	0.02	0.02	0.95	0.81	1.12	0.58	1.01	0.84	1.21	0.95	1.43	0.93	2.18	0.09	0.91	-0.071	-0.124	-0.018	0.02	0.01	-	-	
		UC	1.01	0.90	1.13	0.88	0.57	0.97	0.84	1.13	0.71	0.95	0.75	1.20	0.68	1.22	0.88	1.71	0.19	0.92	-0.027	-0.080	0.026	0.26	0.46	-	-	
Monounsaturated fatty acids (mainly omegi	4	IBD	0.94	0.82	1.08	0.38	0.42	0.94	0.80	1.10	0.44	0.92	0.73	1.17	0.55	0.15	0.00	155.98	0.36	0.12	0.107	-0.428	0.642	0.48	0.40	-	-	
		CD	0.89	0.74	1.06	0.18	0.31	0.85	0.69	1.04	0.11	0.81	0.60	1.08	0.25	0.04	0.00	812.05	0.29	0.12	0.185	-0.505	0.874	0.37	0.32	-	-	
		UC	1.00	0.84	1.18	0.97	0.82	0.98	0.80	1.20	0.85	0.95	0.74	1.22	0.71	1.35	0.00	527.99	0.85	0.19	-0.020	-0.702	0.663	0.91	0.82	-	-	
Total fatty acids	8	IBD	0.94	0.85	1.04	0.21	0.27	0.94	0.82	1.07	0.34	0.85	0.70	1.04	0.16	1.19	0.46	3.11	0.67	0.91	-0.024	-0.102	0.053	0.48	0.27	-	-	
		CD	0.85	0.75	0.98	0.02	0.02	0.89	0.74	1.06	0.18	0.89	0.71	1.13	0.37	1.88	0.40	8.77	0.36	0.91	-0.077	-0.176	0.023	0.11	0.02	-	-	
		UC	0.98	0.86	1.12	0.79	0.99	0.97	0.83	1.14	0.72	0.95	0.78	1.16	0.63	0.77	0.54	1.09	0.11	0.91	0.023	-0.077	0.122	0.60	0.99	-	-	