

Supplementary Table S1: Genome-wide significant independent SNPs for educational attainment

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs13090388	C		T		6.91E-01	-2.85E-02	1.84E-03	4.29E-54
rs7029718	G		A		5.65E-01	-2.44E-02	1.74E-03	1.85E-44
rs9372625	A		G		4.13E-01	2.38E-02	1.76E-03	6.76E-42
rs1334297	A		G		7.84E-01	2.45E-02	1.92E-03	3.06E-37
rs4700393	G		A		5.29E-01	2.09E-02	1.70E-03	1.51E-34
rs11123818	G		A		6.05E-01	-2.08E-02	1.75E-03	1.72E-32
rs34316	C		A		5.80E-01	-2.02E-02	1.77E-03	3.35E-30
rs10773002	T		A		7.21E-01	-2.19E-02	1.97E-03	8.68E-29
rs9964724	C		T		3.40E-01	-1.98E-02	1.83E-03	2.66E-27
rs3747631	G		C		7.72E-01	-2.21E-02	2.08E-03	2.97E-26
rs1620977	G		A		6.91E-01	-2.05E-02	1.95E-03	1.14E-25
rs2819336	T		C		3.38E-01	1.83E-02	1.77E-03	5.46E-25
rs11678980	G		A		5.54E-01	1.74E-02	1.72E-03	4.29E-24
rs10189857	G		A		4.18E-01	-1.73E-02	1.71E-03	6.70E-24
rs1008078	T		C		4.10E-01	-1.74E-02	1.73E-03	1.20E-23
rs73344830	G		A		6.02E-01	-1.72E-02	1.72E-03	1.95E-23
rs4787457	G		A		3.15E-01	-1.74E-02	1.76E-03	3.73E-23
rs1689510	G		C		6.57E-01	-1.76E-02	1.80E-03	1.40E-22
rs1566085	T		G		5.70E-01	1.65E-02	1.71E-03	6.90E-22
rs10963297	G		C		2.52E-01	1.90E-02	1.98E-03	7.36E-22
rs1455350	T		A		5.29E-01	1.61E-02	1.70E-03	2.61E-21
rs13428598	T		C		3.79E-01	1.65E-02	1.75E-03	3.90E-21
rs1391438	T		C		3.15E-01	1.67E-02	1.83E-03	5.79E-20
rs79265434	A		G		8.83E-01	-2.33E-02	2.62E-03	6.08E-19
rs4382592	T		G		3.01E-01	-1.64E-02	1.85E-03	1.01E-18
rs7924036	T		G		5.39E-01	1.50E-02	1.70E-03	1.07E-18
rs176218	G		T		7.99E-01	-1.88E-02	2.15E-03	1.85E-18
rs9616906	G		A		5.77E-01	-1.50E-02	1.72E-03	2.92E-18
rs6557171	C		T		7.25E-01	1.57E-02	1.81E-03	4.15E-18
rs66568921	G		T		3.64E-01	1.57E-02	1.82E-03	7.49E-18
rs74998289	T		G		7.60E-01	1.82E-02	2.13E-03	1.31E-17
rs35417702	C		T		4.24E-01	1.45E-02	1.70E-03	1.93E-17
rs1618725	T		C		5.20E-01	1.48E-02	1.74E-03	2.22E-17
rs11601122	G		A		1.50E-01	-1.95E-02	2.30E-03	2.24E-17
rs10765775	A		G		3.96E-01	1.49E-02	1.76E-03	2.62E-17
rs12375949	T		C		4.30E-01	-1.45E-02	1.72E-03	3.31E-17
rs12028010	C		T		2.23E-01	-1.70E-02	2.02E-03	4.51E-17
rs62444881	C		T		8.10E-01	-1.82E-02	2.17E-03	5.79E-17
rs9349956	A		C		7.60E-01	-1.88E-02	2.25E-03	6.28E-17
rs3897821	A		G		6.50E-01	1.50E-02	1.80E-03	8.25E-17
rs2179152	C		T		6.43E-01	1.46E-02	1.76E-03	1.21E-16
rs12643771	C		T		6.89E-01	-1.52E-02	1.84E-03	1.61E-16
rs55736314	C		G		5.83E-01	-1.43E-02	1.74E-03	1.63E-16
rs2725370	T		C		2.89E-01	-1.54E-02	1.87E-03	1.97E-16
rs12468040	G		T		6.04E-01	-1.43E-02	1.75E-03	2.46E-16
rs72828517	C		T		1.41E-01	1.84E-02	2.24E-03	2.83E-16
rs406413	A		T		7.89E-01	1.70E-02	2.09E-03	4.84E-16
rs10875121	G		C		1.43E-01	-1.83E-02	2.26E-03	5.53E-16
rs1964927	G		A		6.38E-01	-1.42E-02	1.77E-03	9.90E-16
rs8020034	G		A		7.94E-01	-1.78E-02	2.23E-03	1.17E-15
rs2971970	T		G		2.28E-01	-1.65E-02	2.07E-03	1.25E-15
rs62184480	T		C		2.45E-01	-1.53E-02	1.91E-03	1.28E-15
rs56391344	A		G		2.38E-01	1.57E-02	1.97E-03	1.34E-15
rs16846463	A		G		8.83E-01	2.26E-02	2.83E-03	1.38E-15
rs6493265	C		T		6.11E-01	1.39E-02	1.74E-03	1.70E-15
rs363096	C		T		5.75E-01	1.36E-02	1.72E-03	2.04E-15

rs13141210	C	T	4.92E-01	-1.36E-02	1.72E-03	2.26E-15
rs2545798	T	A	5.05E-01	1.35E-02	1.71E-03	3.11E-15
rs55771711	C	G	2.28E-01	1.56E-02	1.99E-03	5.41E-15
rs2347526	T	C	3.62E-01	-1.40E-02	1.79E-03	6.84E-15
rs34853711	C	G	2.47E-01	-1.60E-02	2.06E-03	9.88E-15
rs3026996	A	C	7.16E-01	1.54E-02	1.99E-03	1.05E-14
rs35309068	G	T	4.66E-01	1.32E-02	1.71E-03	1.15E-14
rs1569092	A	G	1.82E-01	1.81E-02	2.34E-03	1.16E-14
rs613872	G	T	1.72E-01	1.75E-02	2.27E-03	1.20E-14
rs17489649	A	G	6.74E-01	1.39E-02	1.81E-03	1.57E-14
rs4757957	C	G	6.51E-01	1.41E-02	1.84E-03	1.81E-14
rs72807818	G	A	8.76E-01	-1.92E-02	2.52E-03	2.79E-14
rs115000530	T	A	6.12E-02	2.89E-02	3.81E-03	3.30E-14
rs10215082	A	G	4.39E-01	-1.30E-02	1.72E-03	3.33E-14
rs76076331	C	T	8.69E-01	-1.87E-02	2.48E-03	4.40E-14
rs62097985	C	T	5.88E-01	1.29E-02	1.72E-03	6.06E-14
rs2998315	G	A	5.78E-01	1.27E-02	1.71E-03	1.12E-13
rs11657342	A	G	3.55E-01	1.40E-02	1.91E-03	1.94E-13
rs790647	C	A	7.65E-01	1.48E-02	2.02E-03	2.17E-13
rs12134151	C	G	5.22E-01	-1.25E-02	1.70E-03	2.42E-13
rs36083520	C	T	1.67E-01	1.63E-02	2.23E-03	2.60E-13
rs4810227	A	G	6.34E-01	1.27E-02	1.75E-03	3.57E-13
rs35475880	G	T	8.16E-01	1.51E-02	2.08E-03	3.80E-13
rs4073894	A	G	1.77E-01	1.52E-02	2.11E-03	5.40E-13
rs59123361	A	G	1.05E-01	-2.09E-02	2.91E-03	5.87E-13
rs7863447	G	A	1.67E-01	-1.68E-02	2.33E-03	5.91E-13
rs4726070	G	A	3.79E-01	-1.25E-02	1.74E-03	5.95E-13
rs17425572	G	A	5.43E-01	-1.22E-02	1.70E-03	6.89E-13
rs79269403	G	A	7.77E-01	-1.45E-02	2.04E-03	1.17E-12
rs2067854	A	G	1.82E-01	1.48E-02	2.09E-03	1.38E-12
rs320693	C	G	4.73E-01	1.20E-02	1.70E-03	1.58E-12
rs13422673	C	T	5.15E-01	1.20E-02	1.70E-03	1.74E-12
rs17598675	C	T	5.19E-01	1.20E-02	1.70E-03	1.75E-12
rs11081529	T	C	7.43E-01	1.31E-02	1.86E-03	1.82E-12
rs11871429	A	G	7.96E-01	1.43E-02	2.02E-03	1.92E-12
rs1584469	T	C	3.11E-01	-1.30E-02	1.85E-03	2.10E-12
rs35532491	T	A	1.07E-01	2.01E-02	2.86E-03	2.42E-12
rs17563464	A	C	2.04E-01	-1.48E-02	2.12E-03	2.89E-12
rs77702622	A	G	7.65E-02	-2.45E-02	3.51E-03	2.99E-12
rs2570497	C	T	3.27E-01	1.23E-02	1.77E-03	3.03E-12
rs6805241	C	T	1.97E-01	-1.41E-02	2.03E-03	3.09E-12
rs969512	T	A	2.96E-01	1.25E-02	1.79E-03	3.22E-12
rs6731373	G	A	6.63E-01	1.26E-02	1.81E-03	3.47E-12
rs11635092	A	G	3.64E-01	-1.23E-02	1.77E-03	3.89E-12
rs6867851	C	G	4.24E-01	-1.20E-02	1.73E-03	3.97E-12
rs7920624	T	A	4.93E-01	-1.18E-02	1.70E-03	3.97E-12
rs1051474	T	C	7.26E-01	-1.30E-02	1.88E-03	4.86E-12
rs575113	A	G	2.77E-01	1.29E-02	1.86E-03	5.30E-12
rs4352658	T	C	9.01E-02	-2.12E-02	3.08E-03	5.55E-12
rs9936270	T	C	3.08E-01	-1.36E-02	1.98E-03	6.43E-12
rs9882532	C	T	3.64E-01	-1.21E-02	1.77E-03	8.17E-12
rs76878669	C	G	7.47E-01	1.40E-02	2.05E-03	8.67E-12
rs113520408	A	G	2.86E-01	1.30E-02	1.92E-03	1.02E-11
rs1882273	G	C	6.53E-01	1.23E-02	1.81E-03	1.09E-11
rs175325	A	T	5.82E-01	-1.18E-02	1.74E-03	1.11E-11
rs35039375	G	A	9.35E-02	-1.98E-02	2.93E-03	1.22E-11
rs301800	T	C	1.80E-01	1.52E-02	2.24E-03	1.33E-11
rs10862376	T	A	8.64E-01	-1.62E-02	2.39E-03	1.40E-11

rs2287838	A	G	5.34E-01	-1.15E-02	1.71E-03	1.53E-11
rs401687	G	C	5.44E-01	-1.14E-02	1.70E-03	1.86E-11
rs1106090	A	G	6.26E-01	1.17E-02	1.75E-03	2.09E-11
rs7977614	G	A	3.08E-01	1.33E-02	1.98E-03	2.09E-11
rs12602286	T	G	8.86E-01	1.70E-02	2.55E-03	2.37E-11
rs16995054	C	T	7.99E-01	1.39E-02	2.08E-03	2.52E-11
rs17565975	A	G	5.31E-01	-1.14E-02	1.71E-03	2.56E-11
rs3788556	T	C	4.59E-01	1.14E-02	1.71E-03	2.78E-11
rs7993663	T	C	6.43E-01	-1.18E-02	1.78E-03	3.25E-11
rs17048855	A	G	3.25E-01	1.18E-02	1.79E-03	3.27E-11
rs10456918	A	C	8.18E-01	-1.49E-02	2.24E-03	3.67E-11
rs10240905	T	C	3.32E-01	-1.17E-02	1.77E-03	3.79E-11
rs9938678	A	T	7.57E-01	-1.36E-02	2.05E-03	4.12E-11
rs1143770	C	T	4.08E-01	-1.14E-02	1.72E-03	4.31E-11
rs6803651	G	T	5.85E-01	-1.13E-02	1.72E-03	4.36E-11
rs9933256	A	G	5.92E-01	1.13E-02	1.72E-03	4.57E-11
rs11694904	T	C	3.38E-01	1.22E-02	1.85E-03	4.78E-11
rs28513670	G	A	1.53E-01	1.48E-02	2.25E-03	5.06E-11
rs8008382	T	C	3.13E-01	-1.21E-02	1.85E-03	6.12E-11
rs7233920	A	G	2.16E-01	-1.32E-02	2.02E-03	7.13E-11
rs9436866	C	A	9.52E-02	1.88E-02	2.89E-03	7.45E-11
rs6123924	A	G	8.40E-01	1.53E-02	2.35E-03	7.55E-11
rs17551064	G	A	1.60E-01	-1.49E-02	2.30E-03	8.62E-11
rs11732657	A	G	7.01E-01	-1.27E-02	1.97E-03	9.54E-11
rs2923431	C	G	6.45E-01	1.14E-02	1.76E-03	9.84E-11
rs2302761	T	C	1.91E-01	1.35E-02	2.09E-03	1.00E-10
rs9289300	T	C	8.16E-01	-1.51E-02	2.34E-03	1.10E-10
rs10073890	G	A	7.36E-01	-1.26E-02	1.96E-03	1.11E-10
rs2052285	A	G	5.77E-01	1.12E-02	1.75E-03	1.34E-10
rs192436652	C	T	9.78E-01	3.50E-02	5.45E-03	1.35E-10
rs9342482	T	G	2.91E-01	1.26E-02	1.97E-03	1.36E-10
rs837080	C	T	4.93E-01	1.09E-02	1.70E-03	1.43E-10
rs2256965	G	A	5.43E-01	-1.13E-02	1.76E-03	1.59E-10
rs11663602	A	C	2.57E-01	-1.21E-02	1.90E-03	1.64E-10
rs2447535	A	G	2.76E-01	-1.18E-02	1.85E-03	1.69E-10
rs4972400	G	A	6.48E-01	-1.16E-02	1.81E-03	1.70E-10
rs1291818	C	T	5.15E-01	-1.09E-02	1.70E-03	1.78E-10
rs466047	A	T	5.00E-01	1.09E-02	1.70E-03	1.80E-10
rs79523955	A	G	9.05E-01	1.80E-02	2.83E-03	1.87E-10
rs6513959	A	G	7.21E-01	1.18E-02	1.85E-03	1.88E-10
rs67890737	C	A	6.74E-01	1.14E-02	1.79E-03	2.01E-10
rs736282	C	T	5.15E-01	-1.08E-02	1.70E-03	2.07E-10
rs337637	G	A	6.63E-01	-1.12E-02	1.77E-03	2.11E-10
rs9529119	C	G	1.97E-01	1.30E-02	2.04E-03	2.13E-10
rs10887801	G	T	5.63E-01	-1.09E-02	1.71E-03	2.27E-10
rs9556958	C	T	4.71E-01	1.08E-02	1.70E-03	2.38E-10
rs7803932	A	G	1.57E-01	1.43E-02	2.26E-03	2.44E-10
rs77719387	A	T	1.70E-02	-4.60E-02	7.26E-03	2.46E-10
rs4384309	G	A	5.20E-01	-1.09E-02	1.72E-03	2.52E-10
rs11023749	A	G	6.70E-01	1.13E-02	1.80E-03	2.96E-10
rs1558727	C	T	5.15E-01	1.07E-02	1.70E-03	3.09E-10
rs76608582	C	A	9.59E-01	-2.80E-02	4.45E-03	3.11E-10
rs9503598	A	G	4.39E-01	1.08E-02	1.71E-03	3.12E-10
rs12332731	A	T	2.02E-01	1.37E-02	2.18E-03	3.12E-10
rs31940	G	A	8.66E-01	-1.55E-02	2.46E-03	3.24E-10
rs10994777	G	A	8.61E-01	-1.46E-02	2.32E-03	3.36E-10
rs7796203	G	A	4.75E-01	1.07E-02	1.71E-03	3.60E-10
rs7808399	A	G	4.52E-01	-1.07E-02	1.71E-03	3.78E-10

rs13145650	C	T	9.18E-02	1.92E-02	3.06E-03	3.80E-10
rs60483752	G	C	4.18E-01	-1.08E-02	1.72E-03	3.89E-10
rs4839155	T	G	7.50E-01	1.25E-02	2.00E-03	3.94E-10
rs1827540	G	A	4.66E-01	-1.06E-02	1.70E-03	4.50E-10
rs13010566	A	C	4.39E-01	-1.06E-02	1.70E-03	4.59E-10
rs36119825	G	A	5.31E-01	-1.06E-02	1.71E-03	4.82E-10
rs2478208	C	G	5.00E-01	-1.06E-02	1.70E-03	4.82E-10
rs10460095	G	A	4.13E-01	1.07E-02	1.71E-03	4.87E-10
rs34485537	T	C	3.90E-01	1.08E-02	1.73E-03	5.67E-10
rs73301698	A	G	2.26E-01	-1.29E-02	2.08E-03	5.81E-10
rs892612	C	A	8.42E-01	1.46E-02	2.37E-03	6.63E-10
rs10940921	G	T	5.70E-01	-1.09E-02	1.77E-03	7.00E-10
rs13029509	A	G	4.68E-01	-1.05E-02	1.70E-03	7.17E-10
rs10205801	A	G	5.07E-01	-1.05E-02	1.71E-03	7.17E-10
rs17126938	T	C	8.79E-01	-1.54E-02	2.50E-03	8.14E-10
rs112806496	G	C	8.50E-02	1.87E-02	3.05E-03	8.28E-10
rs12574281	A	C	6.00E-01	-1.08E-02	1.76E-03	8.85E-10
rs9914918	G	A	7.18E-01	-1.16E-02	1.89E-03	8.90E-10
rs7603132	G	A	8.45E-01	-1.32E-02	2.15E-03	9.17E-10
rs2820314	A	C	6.84E-01	1.10E-02	1.80E-03	9.34E-10
rs4328757	T	C	6.51E-01	1.07E-02	1.74E-03	9.39E-10
rs3800546	G	C	2.70E-01	-1.18E-02	1.94E-03	9.73E-10
rs1363862	G	A	7.40E-01	1.17E-02	1.92E-03	1.02E-09
rs11222609	G	A	3.35E-01	-1.08E-02	1.78E-03	1.05E-09
rs28373063	G	C	7.93E-01	-1.39E-02	2.29E-03	1.23E-09
rs7257460	T	C	7.30E-01	1.15E-02	1.89E-03	1.25E-09
rs7332724	T	C	2.62E-01	-1.15E-02	1.89E-03	1.26E-09
rs7031698	C	T	7.76E-01	1.25E-02	2.06E-03	1.26E-09
rs9679654	T	C	5.15E-01	-1.04E-02	1.72E-03	1.29E-09
rs1582173	C	T	2.60E-01	-1.19E-02	1.96E-03	1.33E-09
rs77025239	A	G	1.09E-01	-1.42E-02	2.34E-03	1.33E-09
rs62103084	T	C	1.43E-01	1.69E-02	2.80E-03	1.42E-09
rs67885444	T	C	1.72E-01	1.41E-02	2.32E-03	1.48E-09
rs6122735	T	C	4.13E-01	1.05E-02	1.74E-03	1.49E-09
rs4442732	G	A	5.97E-01	-1.06E-02	1.76E-03	1.49E-09
rs10772644	G	C	1.07E-01	-1.61E-02	2.67E-03	1.50E-09
rs35316276	C	T	7.06E-01	-1.17E-02	1.94E-03	1.52E-09
rs12519073	C	T	7.62E-01	1.22E-02	2.02E-03	1.60E-09
rs9704097	A	C	4.73E-01	-1.03E-02	1.71E-03	1.61E-09
rs60904894	A	C	5.00E-01	-1.03E-02	1.70E-03	1.62E-09
rs62183776	T	C	1.91E-01	-1.31E-02	2.17E-03	1.65E-09
rs1105307	A	G	2.45E-01	-1.17E-02	1.95E-03	1.67E-09
rs6959891	G	A	2.96E-01	-1.14E-02	1.89E-03	1.74E-09
rs74643044	T	C	9.73E-01	-2.32E-02	3.86E-03	1.80E-09
rs2885198	A	G	4.98E-01	1.03E-02	1.70E-03	1.81E-09
rs80171383	A	G	1.24E-01	1.45E-02	2.41E-03	1.83E-09
rs1671770	C	A	8.06E-01	-1.34E-02	2.23E-03	1.91E-09
rs62157915	T	C	9.40E-01	-2.09E-02	3.48E-03	1.96E-09
rs242093	A	G	5.48E-01	-1.03E-02	1.72E-03	2.07E-09
rs10760023	C	G	6.68E-01	-1.10E-02	1.83E-03	2.12E-09
rs12503522	C	T	7.52E-01	1.13E-02	1.88E-03	2.24E-09
rs4846724	G	A	5.09E-01	-1.02E-02	1.70E-03	2.26E-09
rs78721320	G	A	7.96E-01	-1.31E-02	2.19E-03	2.28E-09
rs6731967	C	G	2.09E-01	-1.19E-02	1.99E-03	2.36E-09
rs4778058	C	T	5.22E-01	1.02E-02	1.70E-03	2.40E-09
rs11772580	G	T	7.47E-01	1.20E-02	2.01E-03	2.57E-09
rs510706	G	C	3.84E-01	-1.07E-02	1.80E-03	2.73E-09
rs894067	G	A	6.07E-01	-1.04E-02	1.75E-03	2.74E-09

rs3890802	A	G	2.69E-01	-1.13E-02	1.91E-03	2.74E-09
rs115454970	T	G	3.04E-01	-1.19E-02	1.99E-03	2.76E-09
rs4984541	A	G	7.59E-01	-1.23E-02	2.07E-03	2.77E-09
rs117799466	G	C	6.22E-01	-1.17E-02	1.98E-03	2.91E-09
rs3013014	G	A	3.90E-01	1.02E-02	1.72E-03	2.92E-09
rs710629	A	G	6.57E-01	1.05E-02	1.77E-03	2.96E-09
rs730384	G	A	5.44E-01	-1.02E-02	1.71E-03	3.01E-09
rs71646142	C	T	8.27E-01	-1.29E-02	2.17E-03	3.11E-09
rs1427298	C	T	5.88E-01	-1.02E-02	1.72E-03	3.28E-09
rs4964046	G	A	3.35E-01	1.05E-02	1.78E-03	3.36E-09
rs117468730	G	A	9.88E-01	3.52E-02	5.97E-03	3.79E-09
rs1866823	A	G	5.51E-01	1.01E-02	1.71E-03	3.81E-09
rs10856785	T	C	7.30E-01	-1.13E-02	1.92E-03	3.83E-09
rs113615161	T	C	1.40E-01	-1.47E-02	2.50E-03	3.97E-09
rs2016392	A	G	2.30E-01	-1.22E-02	2.07E-03	4.35E-09
rs2414072	A	T	4.86E-01	-1.01E-02	1.71E-03	4.35E-09
rs13130765	C	G	4.56E-01	-1.01E-02	1.73E-03	4.69E-09
rs17110109	C	T	3.78E-01	1.02E-02	1.75E-03	4.71E-09
rs11620355	G	A	8.84E-01	-1.76E-02	3.00E-03	4.77E-09
rs12647336	A	G	8.57E-01	-1.38E-02	2.35E-03	4.82E-09
rs111821073	C	T	8.37E-01	-1.39E-02	2.37E-03	4.85E-09
rs7012546	C	T	5.80E-01	-1.01E-02	1.72E-03	4.93E-09
rs1925576	A	G	5.58E-01	-9.97E-03	1.71E-03	4.94E-09
rs7833201	C	G	1.34E-01	-1.53E-02	2.62E-03	5.05E-09
rs6938002	G	A	6.04E-01	1.01E-02	1.73E-03	5.41E-09
rs4369924	A	G	1.68E-01	1.36E-02	2.34E-03	5.82E-09
rs1592757	C	G	3.76E-01	-1.05E-02	1.80E-03	5.89E-09
rs12682775	T	C	7.86E-01	-1.19E-02	2.04E-03	5.99E-09
rs9320493	G	A	8.64E-01	-1.39E-02	2.40E-03	6.13E-09
rs34394051	G	A	1.60E-01	1.39E-02	2.40E-03	6.20E-09
rs1595973	C	T	4.41E-01	1.00E-02	1.73E-03	6.56E-09
rs4945424	A	C	4.15E-01	-9.92E-03	1.71E-03	6.94E-09
rs663234	G	C	6.12E-01	-1.01E-02	1.74E-03	7.39E-09
rs72840994	G	T	1.82E-01	1.25E-02	2.16E-03	7.77E-09
rs59480703	G	C	8.37E-01	1.24E-02	2.15E-03	8.32E-09
rs2905426	G	T	3.55E-01	-1.04E-02	1.81E-03	9.26E-09
rs77128898	T	C	2.21E-02	-2.77E-02	4.82E-03	9.47E-09
rs152603	G	A	3.86E-01	1.02E-02	1.77E-03	9.47E-09
rs532799	G	A	6.70E-01	1.07E-02	1.88E-03	1.08E-08
rs3809634	A	G	6.65E-01	-1.06E-02	1.85E-03	1.09E-08
rs702606	T	C	8.30E-01	1.43E-02	2.50E-03	1.12E-08
rs12655753	A	G	2.38E-02	-2.90E-02	5.09E-03	1.18E-08
rs743316	T	C	8.18E-01	1.19E-02	2.08E-03	1.20E-08
rs7543462	A	G	4.20E-01	-9.73E-03	1.71E-03	1.25E-08
rs72486027	C	T	7.21E-01	1.12E-02	1.97E-03	1.25E-08
rs4870482	G	C	2.59E-01	-1.08E-02	1.90E-03	1.27E-08
rs9386319	G	A	4.27E-01	9.91E-03	1.74E-03	1.27E-08
rs113182709	G	A	9.76E-01	-3.23E-02	5.67E-03	1.29E-08
rs2182505	T	C	2.64E-01	1.09E-02	1.92E-03	1.64E-08
rs818415	T	G	8.18E-01	-1.24E-02	2.19E-03	1.72E-08
rs225291	G	A	8.03E-01	-1.21E-02	2.14E-03	1.84E-08
rs622169	C	T	5.32E-01	-9.99E-03	1.78E-03	1.89E-08
rs9995567	G	A	6.17E-01	-9.98E-03	1.78E-03	1.93E-08
rs7594904	C	T	4.18E-01	9.69E-03	1.73E-03	2.05E-08
rs2283076	A	G	7.86E-01	1.14E-02	2.04E-03	2.07E-08
rs7773815	A	C	4.85E-01	-9.53E-03	1.70E-03	2.08E-08
rs11752914	T	C	8.03E-01	1.21E-02	2.16E-03	2.13E-08
rs4895650	T	C	5.36E-01	9.65E-03	1.72E-03	2.16E-08

rs62439690	G	A	7.33E-01	1.09E-02	1.94E-03	2.18E-08
rs74701752	G	T	9.05E-01	-1.59E-02	2.85E-03	2.38E-08
rs112687095	G	A	8.35E-01	-1.33E-02	2.38E-03	2.42E-08
rs1381247	C	T	2.91E-01	-1.01E-02	1.82E-03	2.46E-08
rs16854920	T	C	6.45E-01	-1.01E-02	1.81E-03	2.51E-08
rs7928622	T	A	3.08E-01	1.01E-02	1.81E-03	2.52E-08
rs1947114	G	A	2.55E-01	1.07E-02	1.92E-03	2.64E-08
rs77835879	A	G	9.10E-01	1.60E-02	2.88E-03	2.68E-08
rs2554835	G	A	6.02E-01	-9.74E-03	1.75E-03	2.69E-08
rs277828	C	A	7.43E-01	1.09E-02	1.96E-03	2.71E-08
rs11681861	G	T	1.57E-01	-1.44E-02	2.59E-03	2.88E-08
rs7864396	C	A	3.66E-01	9.79E-03	1.77E-03	2.95E-08
rs12804787	A	G	9.32E-01	1.81E-02	3.27E-03	2.96E-08
rs795230	T	C	4.18E-01	9.52E-03	1.72E-03	2.97E-08
rs73874335	C	T	9.40E-01	1.99E-02	3.61E-03	3.40E-08
rs4667029	G	C	3.88E-01	9.61E-03	1.74E-03	3.44E-08
rs11627087	A	G	9.15E-01	1.79E-02	3.25E-03	3.71E-08
rs12940014	C	T	5.20E-01	9.36E-03	1.70E-03	3.73E-08
rs2901616	A	G	5.17E-01	9.41E-03	1.71E-03	3.77E-08
rs7650602	T	C	5.71E-01	-9.39E-03	1.71E-03	4.11E-08
rs4888746	G	A	3.78E-01	-9.52E-03	1.74E-03	4.15E-08
rs7278859	A	T	6.92E-01	-1.01E-02	1.85E-03	4.15E-08
rs7315713	A	T	3.37E-01	1.02E-02	1.87E-03	4.34E-08
rs4766424	G	C	9.12E-01	-1.41E-02	2.58E-03	4.43E-08
rs4733264	C	G	6.31E-01	-9.54E-03	1.74E-03	4.53E-08
rs535307	A	G	3.23E-01	1.00E-02	1.84E-03	4.73E-08
rs9384679	T	C	4.08E-01	-9.59E-03	1.76E-03	4.88E-08
rs1450782	G	T	6.02E-01	-9.45E-03	1.73E-03	4.93E-08
rs7016302	G	C	1.77E-01	1.24E-02	2.28E-03	4.98E-08

Supplementary Table S2: Genome-wide significant independent SNPs for body mass index

SNP	effect	alle	other	alle	beta	se	pval
rs10132280	A		C		-2.23E-02	1.80E-03	5.60E-35
rs10169594	T		C		-1.21E-02	1.80E-03	2.00E-11
rs10182181	A		G		-3.25E-02	1.60E-03	6.70E-90
rs10192119	T		G		-1.66E-02	2.20E-03	3.00E-14
rs10197031	T		C		-1.66E-02	1.90E-03	1.90E-18
rs10247983	A		G		2.01E-02	3.30E-03	1.70E-09
rs10248136	T		C		-9.70E-03	1.70E-03	2.00E-08
rs10269783	A		G		1.33E-02	1.70E-03	1.40E-15
rs10478110	A		C		-1.00E-02	1.70E-03	9.60E-09
rs1048932	A		C		-1.60E-02	1.70E-03	3.80E-22
rs10492229	T		C		1.42E-02	1.90E-03	7.70E-14
rs10510419	T		G		-1.77E-02	2.30E-03	2.20E-14
rs10518694	A		C		1.46E-02	2.50E-03	3.30E-09
rs1064213	A		G		1.20E-02	1.70E-03	2.40E-12
rs10733051	A		G		9.70E-03	1.60E-03	2.90E-09
rs10741329	A		G		1.10E-02	1.90E-03	4.00E-09
rs10742752	T		C		-1.24E-02	1.70E-03	1.10E-13
rs10747488	A		C		-1.23E-02	2.00E-03	1.20E-09
rs1075901	T		C		-1.21E-02	1.60E-03	1.20E-13
rs10768994	T		C		1.14E-02	1.70E-03	6.40E-12
rs10795422	A		G		-1.39E-02	1.90E-03	9.30E-14
rs10811871	A		G		1.08E-02	1.80E-03	1.60E-09
rs10824218	A		T		1.22E-02	1.80E-03	7.20E-12
rs10824345	T		C		1.05E-02	1.70E-03	9.20E-10
rs10827649	A		G		-9.40E-03	1.60E-03	9.10E-09
rs10832778	C		G		-1.25E-02	1.70E-03	1.30E-13
rs10842166	T		C		1.09E-02	2.00E-03	4.00E-08
rs10842240	C		G		2.18E-02	2.70E-03	3.10E-16
rs10858334	C		G		-1.43E-02	2.60E-03	2.70E-08
rs10867256	T		C		-1.18E-02	1.70E-03	8.70E-12
rs10878946	T		C		-1.41E-02	1.90E-03	3.60E-13
rs10887578	C		G		1.28E-02	1.70E-03	1.60E-13
rs10915840	A		G		-1.18E-02	1.90E-03	1.30E-09
rs10920678	A		G		1.55E-02	1.60E-03	1.50E-21
rs10938397	A		G		-3.24E-02	1.60E-03	3.40E-86
rs10942267	A		G		1.56E-02	1.90E-03	3.90E-17
rs10953740	A		G		1.53E-02	1.70E-03	1.00E-18
rs10962550	C		G		1.82E-02	2.20E-03	6.20E-16
rs10968114	A		C		1.13E-02	1.70E-03	6.10E-11
rs10971709	T		C		1.32E-02	2.10E-03	6.20E-10
rs10975933	C		G		1.22E-02	1.80E-03	2.70E-11
rs10984756	C		G		-1.74E-02	2.90E-03	1.10E-09
rs11030618	T		C		1.10E-02	1.70E-03	2.40E-10
rs11066188	A		G		-1.20E-02	1.70E-03	8.10E-13
rs11084553	A		G		2.10E-02	2.40E-03	1.80E-18
rs11105839	A		T		-1.09E-02	1.70E-03	1.10E-10
rs11115176	T		C		1.21E-02	1.90E-03	2.00E-10
rs11118308	A		G		1.01E-02	1.60E-03	4.80E-10
rs11129661	T		C		1.24E-02	2.10E-03	5.40E-09
rs11150911	A		C		1.33E-02	1.80E-03	4.70E-13
rs11165643	T		C		2.06E-02	1.70E-03	1.40E-35
rs11170468	A		C		1.23E-02	1.90E-03	1.90E-10
rs11173522	A		C		1.28E-02	2.10E-03	1.10E-09
rs11185111	A		G		-1.29E-02	1.90E-03	7.70E-12
rs11251352	A		G		-1.09E-02	1.80E-03	7.00E-10
rs11496125	T		C		1.69E-02	1.70E-03	3.00E-22

rs11505821	A	T	-3.11E-02	3.50E-03	2.70E-19
rs1150659	A	G	-1.39E-02	1.90E-03	3.80E-13
rs11538	A	G	-1.35E-02	2.30E-03	3.30E-09
rs11577094	T	C	1.82E-02	3.00E-03	6.90E-10
rs1158805	A	C	-1.37E-02	1.80E-03	1.20E-14
rs11609659	T	C	1.54E-02	2.00E-03	2.20E-14
rs11611246	T	G	2.40E-02	2.00E-03	5.00E-32
rs11614340	T	C	-1.33E-02	1.90E-03	8.50E-13
rs11615578	T	C	1.30E-02	2.00E-03	8.10E-11
rs11656076	A	G	-1.42E-02	2.10E-03	5.60E-12
rs11672660	T	C	-3.40E-02	2.10E-03	1.70E-60
rs11713193	A	G	2.39E-02	1.70E-03	2.40E-44
rs11736228	A	T	1.39E-02	2.00E-03	4.10E-12
rs11738695	A	C	9.70E-03	1.70E-03	2.00E-08
rs11739877	T	C	1.17E-02	1.80E-03	6.60E-11
rs11773362	T	C	-1.11E-02	1.80E-03	1.50E-09
rs11781699	T	C	-1.32E-02	2.10E-03	3.10E-10
rs11856579	A	G	-1.41E-02	2.00E-03	8.00E-13
rs1187352	T	C	-1.19E-02	1.80E-03	6.00E-11
rs1188017	T	C	-1.42E-02	2.10E-03	1.20E-11
rs11880870	A	G	1.89E-02	1.70E-03	1.00E-28
rs11889536	A	G	1.89E-02	2.40E-03	6.40E-15
rs11904898	A	G	-1.21E-02	2.10E-03	3.70E-09
rs11945861	A	G	-1.48E-02	2.00E-03	5.00E-13
rs11951673	T	C	-1.23E-02	1.70E-03	1.10E-13
rs12033257	A	G	1.46E-02	1.80E-03	2.40E-15
rs12041258	T	C	1.46E-02	2.00E-03	9.50E-13
rs12044597	A	G	-1.43E-02	1.60E-03	1.70E-18
rs12049202	T	C	2.40E-02	2.20E-03	1.00E-28
rs12150665	T	C	1.62E-02	1.70E-03	1.60E-22
rs1218822	A	G	1.68E-02	1.70E-03	1.90E-22
rs12299814	A	C	-1.57E-02	2.00E-03	5.20E-15
rs12328930	T	C	-9.80E-03	1.70E-03	1.80E-08
rs12334877	A	G	-1.44E-02	2.20E-03	7.70E-11
rs12364470	T	G	-1.78E-02	2.20E-03	1.10E-15
rs12369179	T	C	-3.59E-02	3.10E-03	2.50E-31
rs12416812	A	G	1.11E-02	1.60E-03	6.10E-12
rs1241986	A	G	-1.39E-02	2.40E-03	1.10E-08
rs12429545	A	G	3.16E-02	2.50E-03	9.60E-38
rs12448257	A	G	1.84E-02	2.00E-03	8.10E-20
rs12495178	T	C	1.84E-02	1.70E-03	7.60E-28
rs12527426	A	G	1.35E-02	1.90E-03	1.40E-12
rs12564992	A	G	-1.96E-02	2.60E-03	5.30E-14
rs12593036	A	G	1.54E-02	1.90E-03	3.80E-16
rs12602912	T	C	1.76E-02	2.10E-03	9.90E-18
rs1260326	T	C	-1.05E-02	1.70E-03	3.90E-10
rs12629015	A	G	1.35E-02	2.30E-03	2.10E-09
rs12652212	A	G	-1.23E-02	1.70E-03	9.70E-14
rs1266874	A	G	-1.40E-02	1.80E-03	9.80E-15
rs12675063	A	T	-1.56E-02	2.60E-03	1.30E-09
rs1268065	A	G	-1.02E-02	1.70E-03	1.00E-09
rs12680842	A	G	1.33E-02	1.80E-03	4.40E-14
rs12718572	T	C	-1.17E-02	1.80E-03	3.00E-11
rs12762034	T	C	-2.40E-02	3.20E-03	7.30E-14
rs12779328	T	C	1.05E-02	1.90E-03	4.50E-08
rs12881629	A	G	-2.12E-02	3.30E-03	1.00E-10
rs12888545	A	G	-1.36E-02	2.00E-03	9.10E-12
rs12905439	C	G	1.18E-02	1.80E-03	1.40E-10

rs12922346	C	G	1.36E-02	2.00E-03	1.00E-11
rs12933482	A	G	-1.86E-02	2.80E-03	4.90E-11
rs12936083	A	G	-1.39E-02	1.90E-03	4.10E-13
rs12939549	A	G	1.80E-02	1.60E-03	2.70E-28
rs1296328	A	C	1.79E-02	1.80E-03	4.90E-24
rs12964689	A	G	2.03E-02	1.70E-03	5.10E-32
rs12981256	A	G	1.42E-02	1.80E-03	1.10E-15
rs12987009	A	T	-1.10E-02	1.70E-03	2.40E-10
rs13021737	A	G	-5.74E-02	2.10E-03	7.50E-157
rs1304070	A	G	1.26E-02	2.00E-03	3.70E-10
rs13047416	C	G	1.54E-02	1.80E-03	2.20E-17
rs13069244	A	G	1.87E-02	3.20E-03	3.00E-09
rs13107325	T	C	4.70E-02	3.20E-03	1.10E-47
rs13110266	A	G	-1.17E-02	1.70E-03	1.90E-12
rs13147390	T	C	-1.03E-02	1.80E-03	1.00E-08
rs13174863	A	G	-1.92E-02	2.30E-03	2.90E-16
rs13184896	T	G	-1.33E-02	1.60E-03	3.30E-16
rs13191362	A	G	2.36E-02	2.50E-03	5.90E-21
rs1320903	A	G	2.16E-02	1.80E-03	9.20E-32
rs13240600	A	G	2.04E-02	2.40E-03	3.50E-17
rs13250058	T	G	1.12E-02	1.80E-03	2.90E-10
rs13263601	A	C	-1.54E-02	1.80E-03	2.20E-17
rs1327259	A	G	1.55E-02	1.80E-03	1.70E-18
rs13287131	T	C	-1.23E-02	2.00E-03	6.80E-10
rs13288178	A	G	1.40E-02	1.80E-03	2.70E-15
rs1330052	C	G	-1.32E-02	1.80E-03	1.50E-13
rs13329567	T	C	-2.93E-02	2.00E-03	1.00E-50
rs1365466	T	C	-1.37E-02	1.90E-03	3.30E-13
rs1371108	A	C	1.19E-02	1.80E-03	9.00E-11
rs1372177	C	G	-9.80E-03	1.70E-03	1.40E-08
rs138289	A	T	1.03E-02	1.70E-03	3.30E-09
rs1399471	C	G	-1.31E-02	2.00E-03	2.70E-11
rs1409818	T	C	2.01E-02	2.90E-03	2.50E-12
rs1412235	C	G	2.46E-02	1.70E-03	6.00E-45
rs1421334	A	C	1.25E-02	1.80E-03	1.00E-12
rs1431659	A	G	1.96E-02	1.90E-03	6.00E-24
rs1436344	C	G	1.41E-02	1.70E-03	4.10E-16
rs1445652	A	G	1.23E-02	2.20E-03	4.30E-08
rs1452075	T	C	1.41E-02	1.80E-03	1.30E-14
rs1454687	C	G	2.02E-02	1.70E-03	5.20E-32
rs1465900	A	C	1.25E-02	2.00E-03	4.80E-10
rs1477199	A	G	-2.28E-02	2.40E-03	9.40E-22
rs1477887	A	G	-1.38E-02	1.70E-03	2.00E-15
rs1492767	T	C	9.40E-03	1.60E-03	1.00E-08
rs1503526	T	C	-1.40E-02	1.70E-03	5.50E-17
rs1521527	C	G	-1.21E-02	1.70E-03	3.10E-12
rs1522569	T	G	1.64E-02	2.20E-03	2.90E-13
rs1528435	T	C	1.64E-02	1.70E-03	9.10E-23
rs1535660	T	C	1.47E-02	2.50E-03	5.20E-09
rs156201	C	G	1.23E-02	2.00E-03	5.80E-10
rs1579557	T	C	2.13E-02	1.90E-03	1.10E-29
rs1583123	A	C	1.08E-02	1.80E-03	1.30E-09
rs1624134	C	G	1.01E-02	1.80E-03	1.10E-08
rs1656377	T	C	-9.90E-03	1.70E-03	1.60E-08
rs16822990	A	G	1.87E-02	3.20E-03	3.80E-09
rs16849710	A	G	1.16E-02	1.80E-03	6.00E-11
rs16851483	T	G	3.69E-02	3.50E-03	3.20E-26
rs16871902	A	G	1.25E-02	1.70E-03	4.60E-13

rs16889835	T	C	-1.45E-02	2.50E-03	4.30E-09
rs16903285	T	C	-3.31E-02	2.60E-03	7.60E-38
rs16953563	A	G	-1.34E-02	2.00E-03	1.50E-11
rs17001561	A	G	1.51E-02	2.30E-03	3.80E-11
rs17014375	T	G	-1.72E-02	2.50E-03	1.10E-11
rs17056301	T	C	-1.18E-02	2.00E-03	2.40E-09
rs17066856	T	C	3.85E-02	2.80E-03	1.50E-42
rs17113297	T	C	1.66E-02	2.10E-03	2.10E-15
rs17119937	T	C	-2.12E-02	3.60E-03	5.60E-09
rs17203016	A	G	-1.50E-02	2.00E-03	2.10E-13
rs17207196	T	C	-2.21E-02	1.80E-03	2.10E-35
rs17238110	A	G	3.53E-02	5.00E-03	2.00E-12
rs17311369	T	C	-1.04E-02	1.90E-03	3.10E-08
rs17327461	T	C	1.25E-02	1.60E-03	1.50E-14
rs17405819	T	C	2.15E-02	1.80E-03	4.30E-33
rs17424296	A	G	-1.08E-02	1.80E-03	2.40E-09
rs17425707	T	C	-1.67E-02	2.80E-03	4.40E-09
rs17446257	A	G	1.53E-02	2.60E-03	2.90E-09
rs17499593	C	G	-1.25E-02	2.20E-03	1.10E-08
rs17513613	T	C	-1.86E-02	1.80E-03	3.60E-26
rs175165	T	G	1.03E-02	1.80E-03	5.20E-09
rs17535082	T	C	-1.71E-02	3.00E-03	7.80E-09
rs17535749	A	G	1.50E-02	2.70E-03	2.50E-08
rs17551974	A	C	-1.41E-02	2.20E-03	1.90E-10
rs1759975	A	G	9.60E-03	1.70E-03	1.90E-08
rs17636031	T	C	-1.60E-02	1.90E-03	1.20E-17
rs17663412	A	C	1.57E-02	2.70E-03	6.10E-09
rs17710386	T	C	-1.26E-02	1.80E-03	1.00E-12
rs17724992	A	G	1.83E-02	1.90E-03	1.00E-22
rs17767510	C	G	1.29E-02	2.30E-03	1.90E-08
rs17789218	T	C	-1.30E-02	1.90E-03	7.40E-12
rs17806379	T	C	-2.58E-02	2.20E-03	1.50E-30
rs1784460	A	T	1.32E-02	1.80E-03	9.00E-14
rs1804528	A	G	1.09E-02	2.00E-03	3.00E-08
rs1814170	A	T	2.03E-02	2.90E-03	2.10E-12
rs1830074	T	C	-1.15E-02	1.90E-03	1.40E-09
rs1863652	A	G	-1.15E-02	1.80E-03	1.40E-10
rs1884389	T	C	-1.03E-02	1.70E-03	4.00E-09
rs1884897	A	G	-1.94E-02	1.70E-03	1.30E-30
rs1885728	A	G	1.08E-02	1.90E-03	1.00E-08
rs1891216	T	G	-1.07E-02	1.80E-03	2.40E-09
rs1896767	A	G	-1.09E-02	1.70E-03	2.40E-10
rs189843	C	G	-9.80E-03	1.70E-03	1.70E-08
rs1927790	T	C	-1.48E-02	1.60E-03	1.80E-19
rs1928295	T	C	1.41E-02	1.60E-03	5.40E-18
rs1937433	C	G	-1.24E-02	1.70E-03	8.50E-13
rs1937684	A	T	1.12E-02	1.80E-03	8.70E-10
rs1948080	T	G	1.37E-02	1.80E-03	1.10E-14
rs1951455	T	C	-1.45E-02	1.90E-03	4.50E-14
rs1982441	T	G	1.75E-02	2.60E-03	7.00E-12
rs1982725	T	C	9.70E-03	1.70E-03	3.30E-08
rs1993709	A	G	-3.31E-02	2.10E-03	1.90E-57
rs1999494	A	G	1.06E-02	1.90E-03	1.70E-08
rs2007231	T	C	-1.04E-02	1.80E-03	5.20E-09
rs200810	T	C	1.36E-02	1.70E-03	5.50E-16
rs2010281	A	G	-1.61E-02	1.70E-03	6.70E-21
rs2047648	A	T	-1.18E-02	2.00E-03	2.40E-09
rs2051559	T	C	-1.76E-02	2.60E-03	5.00E-12

rs2065418	T	G	1.66E-02	1.80E-03	3.60E-20
rs208015	T	C	3.56E-02	3.40E-03	1.40E-25
rs2124499	C	G	-1.23E-02	1.70E-03	3.40E-13
rs2143253	A	G	-1.88E-02	2.60E-03	1.10E-12
rs215634	A	G	1.52E-02	1.80E-03	2.60E-17
rs2162524	T	C	-1.55E-02	1.80E-03	4.10E-17
rs2163188	C	G	1.31E-02	1.70E-03	2.00E-14
rs2169642	A	C	-1.22E-02	1.80E-03	2.90E-11
rs2174307	C	G	1.21E-02	1.70E-03	4.90E-12
rs217671	A	G	-1.44E-02	1.90E-03	1.30E-13
rs2192158	A	G	1.29E-02	1.70E-03	8.30E-14
rs2196618	A	G	-1.47E-02	2.00E-03	1.30E-13
rs2228213	A	G	-1.39E-02	1.70E-03	4.60E-16
rs2228552	T	G	1.27E-02	1.90E-03	3.10E-11
rs2235564	T	C	1.31E-02	1.80E-03	3.70E-13
rs2237403	T	C	-1.21E-02	1.80E-03	3.30E-11
rs2242189	T	C	1.35E-02	1.80E-03	8.30E-14
rs2246012	T	C	-1.58E-02	2.20E-03	3.10E-13
rs2257791	A	G	-1.42E-02	2.00E-03	1.80E-12
rs2271189	A	G	-1.44E-02	1.80E-03	5.00E-16
rs2281819	A	T	-1.60E-02	2.00E-03	5.10E-15
rs2283093	T	C	1.27E-02	2.10E-03	3.10E-09
rs2284746	C	G	1.04E-02	1.70E-03	1.40E-09
rs2285178	T	C	-1.12E-02	1.90E-03	9.40E-09
rs2307111	T	C	2.65E-02	1.60E-03	1.60E-58
rs2357760	A	G	1.45E-02	1.70E-03	6.80E-17
rs2365389	T	C	-1.74E-02	1.70E-03	1.30E-25
rs2367112	T	G	1.19E-02	1.60E-03	2.30E-13
rs2423668	T	C	1.05E-02	1.90E-03	2.80E-08
rs2425840	A	C	-1.19E-02	1.80E-03	1.60E-11
rs2429150	A	C	-1.11E-02	1.80E-03	2.70E-10
rs2479958	A	G	1.54E-02	1.80E-03	1.50E-17
rs2481665	T	C	1.61E-02	1.60E-03	7.20E-23
rs2543132	C	G	1.46E-02	2.20E-03	5.00E-11
rs2600226	T	C	-1.16E-02	1.90E-03	3.70E-10
rs2605603	A	G	-1.03E-02	1.60E-03	2.50E-10
rs2608703	A	C	1.42E-02	1.70E-03	1.90E-16
rs2612576	A	T	-1.10E-02	1.90E-03	9.70E-09
rs262130	T	C	1.27E-02	2.30E-03	1.80E-08
rs2693826	A	G	-1.37E-02	1.70E-03	2.00E-15
rs2694047	A	G	-1.88E-02	2.00E-03	3.90E-21
rs273504	A	G	-1.53E-02	1.80E-03	4.40E-18
rs2744974	T	C	2.49E-02	1.80E-03	1.40E-45
rs2791653	A	G	1.41E-02	1.90E-03	1.30E-13
rs2820311	A	G	-2.35E-02	1.80E-03	4.10E-38
rs2832283	A	G	1.15E-02	2.00E-03	5.80E-09
rs28350	A	G	1.77E-02	2.20E-03	3.50E-15
rs2836964	T	C	1.10E-02	1.80E-03	1.30E-09
rs2861683	A	C	1.44E-02	1.70E-03	1.30E-16
rs287104	A	G	1.15E-02	1.70E-03	4.40E-11
rs2875762	C	G	1.39E-02	2.00E-03	1.20E-11
rs2885415	A	G	-1.58E-02	2.00E-03	1.40E-15
rs2903971	T	G	1.45E-02	2.30E-03	1.50E-10
rs2907948	A	G	-1.41E-02	1.90E-03	1.30E-13
rs2931434	T	C	-1.04E-02	1.80E-03	1.40E-08
rs294704	T	G	-1.13E-02	1.90E-03	4.00E-09
rs3007105	T	C	1.42E-02	1.70E-03	1.10E-17
rs326889	T	C	-1.29E-02	1.80E-03	2.40E-13

rs329651	T	G	1.64E-02	2.10E-03	9.00E-15
rs331966	A	C	-1.12E-02	1.80E-03	3.20E-10
rs339991	A	G	-1.24E-02	1.80E-03	1.20E-12
rs349088	A	C	-1.28E-02	1.70E-03	1.80E-13
rs355777	C	G	1.53E-02	1.70E-03	1.40E-18
rs3731695	T	C	-1.16E-02	1.60E-03	7.90E-13
rs3732084	T	C	-1.07E-02	1.80E-03	1.10E-09
rs3736485	A	G	1.34E-02	1.60E-03	2.50E-16
rs3749897	T	C	1.22E-02	1.80E-03	8.40E-12
rs3754963	A	T	1.23E-02	2.00E-03	3.30E-10
rs3764835	A	G	-1.41E-02	2.40E-03	3.10E-09
rs3800229	T	G	1.75E-02	1.80E-03	1.40E-22
rs3800637	T	C	-1.15E-02	1.80E-03	5.10E-10
rs3803286	A	G	1.81E-02	1.80E-03	4.10E-23
rs3806572	A	G	-1.45E-02	1.90E-03	1.60E-14
rs3807645	A	G	-1.66E-02	2.10E-03	2.40E-15
rs380857	A	C	-1.51E-02	2.70E-03	3.60E-08
rs3814883	T	C	2.32E-02	1.70E-03	1.10E-40
rs3829849	T	C	9.80E-03	1.70E-03	5.90E-09
rs38314	A	G	-1.20E-02	1.70E-03	4.70E-12
rs3844598	A	G	-9.50E-03	1.70E-03	3.80E-08
rs3902951	T	G	-1.34E-02	2.00E-03	7.00E-12
rs3904244	A	T	1.55E-02	2.50E-03	4.30E-10
rs391300	T	C	1.19E-02	1.70E-03	3.10E-12
rs3977755	T	C	-1.35E-02	1.90E-03	5.90E-13
rs40067	A	G	-2.66E-02	2.30E-03	7.10E-30
rs4012234	T	G	-1.41E-02	1.80E-03	9.90E-16
rs4072917	A	G	1.15E-02	1.80E-03	6.90E-11
rs4148155	A	G	1.88E-02	2.60E-03	5.00E-13
rs4148866	T	C	9.80E-03	1.80E-03	4.00E-08
rs4151664	T	C	2.00E-02	3.50E-03	1.40E-08
rs4237643	T	G	2.23E-02	1.90E-03	4.30E-33
rs427943	A	C	-1.70E-02	1.70E-03	7.30E-23
rs429343	A	G	1.50E-02	1.70E-03	6.80E-18
rs4307239	A	G	-1.15E-02	1.70E-03	3.90E-11
rs4414033	A	G	1.29E-02	1.80E-03	1.40E-12
rs4430672	T	C	1.27E-02	2.20E-03	3.90E-09
rs4482463	A	C	-3.31E-02	3.30E-03	2.80E-23
rs4516268	A	C	-2.17E-02	2.10E-03	5.20E-25
rs4518345	A	G	-1.17E-02	1.90E-03	1.00E-09
rs4556997	A	C	1.97E-02	2.40E-03	6.90E-17
rs4589691	C	G	-1.41E-02	2.40E-03	4.70E-09
rs4639527	A	G	-1.72E-02	1.90E-03	3.30E-20
rs4653017	T	C	1.22E-02	1.80E-03	4.50E-11
rs4660443	T	C	1.64E-02	2.10E-03	6.80E-15
rs4671328	T	G	2.19E-02	1.70E-03	2.20E-36
rs4713436	T	C	-1.33E-02	2.40E-03	1.80E-08
rs4722398	T	C	1.58E-02	2.50E-03	3.60E-10
rs4740619	T	C	1.86E-02	1.60E-03	2.30E-30
rs4757144	A	G	1.69E-02	1.80E-03	5.60E-22
rs4783830	A	G	-1.05E-02	1.90E-03	2.40E-08
rs4786903	A	G	-1.25E-02	2.00E-03	3.50E-10
rs4800191	C	G	1.03E-02	1.70E-03	2.50E-09
rs4801117	A	C	1.04E-02	1.80E-03	4.60E-09
rs4818225	A	G	-1.17E-02	1.80E-03	2.30E-10
rs4820408	T	G	1.51E-02	1.70E-03	2.10E-19
rs4851029	T	G	-1.21E-02	1.70E-03	1.70E-12
rs4858193	T	C	1.29E-02	1.90E-03	1.60E-11

rs4864201	T	C	1.41E-02	1.70E-03	1.50E-16
rs4880341	T	C	-1.18E-02	1.70E-03	1.10E-11
rs4906908	T	G	-1.03E-02	1.70E-03	2.50E-09
rs491711	A	C	1.15E-02	1.90E-03	1.10E-09
rs4929923	T	C	-1.81E-02	1.70E-03	7.20E-27
rs4936175	T	C	-1.22E-02	1.70E-03	1.40E-12
rs4937870	A	G	1.09E-02	1.90E-03	8.80E-09
rs4952843	A	G	1.31E-02	1.80E-03	6.80E-14
rs4954638	A	C	1.18E-02	2.00E-03	2.90E-09
rs4968656	A	G	-1.16E-02	1.90E-03	8.20E-10
rs4981693	A	G	2.06E-02	2.00E-03	6.90E-24
rs4986044	T	C	-1.64E-02	1.60E-03	3.30E-23
rs538579	C	G	1.37E-02	1.90E-03	1.30E-13
rs543874	A	G	-4.75E-02	2.00E-03	1.20E-122
rs559231	T	G	1.35E-02	1.80E-03	2.40E-14
rs577525	T	C	-1.66E-02	1.70E-03	9.70E-22
rs592483	T	C	-1.47E-02	1.70E-03	2.00E-18
rs6011457	A	T	-1.16E-02	1.70E-03	2.70E-11
rs6050446	A	G	-3.43E-02	4.70E-03	4.40E-13
rs621042	A	C	-1.07E-02	1.70E-03	6.30E-10
rs6235	C	G	-1.75E-02	1.90E-03	1.50E-19
rs6265	T	C	-4.12E-02	2.10E-03	1.00E-86
rs629443	T	G	1.16E-02	1.90E-03	1.40E-09
rs6443750	T	C	-1.48E-02	2.10E-03	3.20E-12
rs6448587	A	C	1.67E-02	2.30E-03	2.30E-13
rs645040	T	G	1.71E-02	2.00E-03	2.50E-18
rs6461115	A	G	1.44E-02	1.90E-03	1.20E-13
rs6471941	A	G	1.56E-02	2.10E-03	3.10E-13
rs6500208	A	G	1.40E-02	2.00E-03	4.10E-12
rs6512302	C	G	1.42E-02	2.00E-03	2.10E-12
rs6545714	A	G	-1.91E-02	1.70E-03	9.10E-31
rs6551278	T	C	-1.81E-02	2.20E-03	7.20E-16
rs6556301	T	G	-1.11E-02	1.80E-03	4.10E-10
rs657452	A	G	1.88E-02	1.70E-03	7.20E-29
rs6587552	A	G	1.73E-02	2.00E-03	1.60E-17
rs6591407	A	C	-1.18E-02	2.10E-03	1.90E-08
rs6593688	A	G	-1.37E-02	1.80E-03	8.60E-15
rs6595205	C	G	1.14E-02	1.60E-03	2.00E-12
rs663129	A	G	5.45E-02	1.90E-03	1.60E-178
rs6673081	T	C	1.00E-02	1.80E-03	1.80E-08
rs6692586	A	G	1.92E-02	2.30E-03	1.10E-16
rs6712	C	G	1.38E-02	2.50E-03	4.40E-08
rs6734537	T	C	-1.33E-02	2.20E-03	1.00E-09
rs6764533	A	G	1.16E-02	1.80E-03	1.40E-10
rs676749	A	T	-1.04E-02	1.70E-03	1.70E-09
rs6772756	A	G	1.04E-02	1.90E-03	4.00E-08
rs6781254	T	C	1.12E-02	1.80E-03	4.90E-10
rs6792696	A	G	1.04E-02	1.70E-03	6.60E-10
rs6804842	A	G	-1.56E-02	1.70E-03	3.60E-21
rs6812882	T	C	-1.13E-02	1.90E-03	2.50E-09
rs6841761	T	G	-1.31E-02	1.60E-03	6.40E-16
rs6985109	A	G	-1.77E-02	1.70E-03	1.50E-26
rs7024334	T	G	1.38E-02	2.00E-03	3.10E-12
rs7025938	C	G	-1.66E-02	1.90E-03	3.70E-19
rs7084454	A	G	1.93E-02	1.90E-03	4.00E-25
rs7102454	T	C	-1.58E-02	1.80E-03	2.40E-18
rs7117238	A	G	-1.31E-02	2.20E-03	2.50E-09
rs7124681	A	C	2.63E-02	1.60E-03	3.20E-58

rs7138803	A	G	3.00E-02	1.70E-03	2.30E-71
rs7144011	T	G	2.82E-02	2.00E-03	5.20E-47
rs7172627	A	G	-1.17E-02	1.70E-03	1.10E-11
rs7173441	A	T	1.19E-02	1.80E-03	1.20E-11
rs7181498	T	C	1.63E-02	1.80E-03	1.00E-19
rs7196720	T	C	1.29E-02	1.70E-03	7.30E-14
rs7206608	C	G	-1.32E-02	1.90E-03	1.30E-12
rs7206790	C	G	-6.27E-02	1.70E-03	1.00E-200
rs7222349	A	G	1.15E-02	1.80E-03	3.30E-10
rs7249149	A	G	1.24E-02	1.90E-03	9.30E-11
rs7313220	A	G	1.22E-02	1.70E-03	1.40E-12
rs7313924	C	G	1.01E-02	1.80E-03	3.50E-08
rs7318817	T	C	-1.55E-02	1.80E-03	2.70E-18
rs7334078	T	C	1.21E-02	1.90E-03	2.20E-10
rs7488867	T	C	-2.04E-02	2.00E-03	8.40E-24
rs7498665	A	G	-2.71E-02	1.70E-03	5.60E-60
rs7503597	T	G	1.34E-02	1.90E-03	2.80E-12
rs7512146	T	G	-9.40E-03	1.70E-03	3.90E-08
rs7535528	A	G	-1.52E-02	1.80E-03	1.40E-16
rs754635	C	G	-1.98E-02	2.70E-03	2.20E-13
rs7550711	T	C	6.49E-02	5.00E-03	3.20E-38
rs7551507	T	C	-1.84E-02	1.60E-03	9.30E-30
rs7557796	T	C	1.60E-02	1.80E-03	2.30E-19
rs756717	A	G	-1.48E-02	1.70E-03	5.40E-18
rs7568228	C	G	-1.02E-02	1.70E-03	2.90E-09
rs7599312	A	G	-1.86E-02	1.90E-03	6.90E-24
rs7615297	C	G	1.49E-02	2.40E-03	5.70E-10
rs7626079	T	C	1.10E-02	1.80E-03	1.60E-09
rs7637852	A	G	1.39E-02	1.90E-03	1.70E-13
rs7640424	T	C	-1.36E-02	1.80E-03	2.30E-14
rs765875	T	C	-1.21E-02	1.70E-03	3.00E-12
rs7683836	A	G	-1.14E-02	1.70E-03	6.30E-11
rs7685048	T	C	-1.01E-02	1.70E-03	4.10E-09
rs768840	A	G	1.14E-02	1.80E-03	2.00E-10
rs769449	A	G	-2.54E-02	2.70E-03	2.30E-20
rs7694732	A	G	9.90E-03	1.70E-03	8.70E-09
rs7703576	T	C	-1.03E-02	1.90E-03	4.80E-08
rs7704281	A	G	2.71E-02	4.10E-03	6.50E-11
rs7715256	T	G	-1.66E-02	1.60E-03	2.20E-24
rs7724675	A	G	-1.19E-02	2.10E-03	9.50E-09
rs7730004	T	C	1.48E-02	1.80E-03	9.10E-16
rs7730898	A	G	1.68E-02	1.80E-03	4.50E-20
rs774246	A	G	-1.53E-02	2.50E-03	5.40E-10
rs775724	A	G	1.06E-02	1.80E-03	1.70E-09
rs7761673	A	T	-1.26E-02	2.10E-03	1.90E-09
rs7780752	T	C	-1.39E-02	1.80E-03	1.00E-14
rs7788008	A	G	-1.57E-02	1.70E-03	1.10E-19
rs7819514	A	G	-1.07E-02	1.80E-03	5.70E-09
rs7826312	T	C	-1.04E-02	1.70E-03	4.90E-10
rs7844647	T	C	1.23E-02	1.80E-03	2.80E-11
rs7869771	A	C	1.40E-02	1.90E-03	4.90E-13
rs7871866	C	G	1.87E-02	2.40E-03	2.30E-14
rs7899106	A	G	-3.31E-02	3.70E-03	1.00E-18
rs7903146	T	C	-1.81E-02	1.80E-03	1.30E-23
rs7925214	T	C	1.47E-02	1.80E-03	4.40E-17
rs7933205	A	G	-1.16E-02	2.10E-03	3.20E-08
rs7941030	T	C	-1.12E-02	1.70E-03	2.00E-11
rs7983065	T	C	-1.48E-02	1.70E-03	8.90E-18

rs8027205	C	G	1.08E-02	1.80E-03	1.40E-09
rs8036040	A	C	1.09E-02	1.70E-03	2.70E-10
rs8065336	T	C	-1.20E-02	1.90E-03	1.90E-10
rs806600	A	G	9.50E-03	1.70E-03	3.30E-08
rs8071182	A	G	1.33E-02	2.20E-03	2.10E-09
rs8097672	A	T	-2.00E-02	2.50E-03	8.40E-16
rs8123881	A	G	-1.96E-02	2.40E-03	4.40E-16
rs818524	T	C	-1.06E-02	1.90E-03	3.40E-08
rs8192675	T	C	-1.52E-02	1.80E-03	1.40E-17
rs825688	T	C	-9.50E-03	1.70E-03	4.70E-08
rs845084	A	G	1.40E-02	2.00E-03	1.30E-12
rs852056	T	C	1.28E-02	2.00E-03	1.80E-10
rs865809	A	G	1.27E-02	2.00E-03	5.40E-10
rs872281	T	C	-1.51E-02	2.30E-03	4.70E-11
rs876605	A	G	1.08E-02	2.00E-03	3.40E-08
rs879620	T	C	2.31E-02	1.80E-03	5.30E-38
rs889398	T	C	-1.96E-02	1.60E-03	1.30E-32
rs895330	C	G	2.01E-02	2.30E-03	5.50E-19
rs901630	T	C	-1.46E-02	1.70E-03	1.90E-18
rs902695	A	G	-1.03E-02	1.70E-03	2.20E-09
rs9288754	T	C	-9.60E-03	1.70E-03	4.10E-08
rs9294260	A	G	1.47E-02	1.60E-03	1.80E-19
rs9300422	A	G	1.03E-02	1.80E-03	4.00E-09
rs930295	A	C	2.11E-02	2.30E-03	1.00E-19
rs9304665	A	T	2.29E-02	2.00E-03	2.90E-29
rs934224	T	C	1.07E-02	2.00E-03	4.70E-08
rs9362662	A	G	1.12E-02	1.70E-03	1.20E-10
rs9367368	T	C	1.21E-02	1.80E-03	1.00E-11
rs9375702	T	C	-1.15E-02	1.90E-03	7.90E-10
rs9382285	A	G	-2.30E-02	4.20E-03	3.90E-08
rs9408882	A	G	-9.30E-03	1.60E-03	1.30E-08
rs9458814	T	C	-1.15E-02	2.00E-03	1.80E-08
rs946824	T	C	2.06E-02	2.60E-03	1.10E-15
rs947612	A	G	-1.16E-02	2.00E-03	5.60E-09
rs9478496	T	C	-1.52E-02	2.30E-03	5.50E-11
rs9522285	A	G	1.27E-02	1.70E-03	2.50E-13
rs9527895	T	C	-1.65E-02	2.30E-03	5.40E-13
rs9569777	T	G	-1.92E-02	2.20E-03	4.60E-19
rs9599161	T	C	1.00E-02	1.70E-03	1.70E-09
rs9615905	T	C	1.10E-02	1.70E-03	2.70E-10
rs962273	T	C	-1.37E-02	1.90E-03	2.60E-13
rs962796	T	C	1.48E-02	2.20E-03	5.90E-12
rs9650755	A	G	-1.54E-02	2.00E-03	2.80E-15
rs9688431	T	C	2.31E-02	3.50E-03	2.40E-11
rs977747	T	G	1.69E-02	1.70E-03	1.30E-24
rs9783858	T	C	9.10E-03	1.70E-03	3.30E-08
rs9806742	A	G	2.08E-02	2.60E-03	1.40E-15
rs9816226	A	T	-3.23E-02	2.10E-03	1.60E-52
rs9827823	T	C	1.93E-02	2.40E-03	1.20E-15
rs9845966	T	G	1.05E-02	1.70E-03	2.50E-10
rs987237	A	G	-4.09E-02	2.10E-03	9.30E-84
rs9926784	T	C	2.58E-02	2.10E-03	9.90E-35
rs9927848	A	C	-1.22E-02	2.00E-03	6.40E-10
rs9951619	T	G	-1.56E-02	2.00E-03	1.40E-15
rs998732	A	G	1.71E-02	2.20E-03	2.00E-14
rs9989141	T	C	1.62E-02	1.70E-03	3.60E-21
rs999889	A	G	-1.08E-02	1.90E-03	1.40E-08

Supplementary Table S3: Genome-wide significant independent SNPs for body fat percentage

SNP	effect	_alle	other	_alle	eaf	beta	se	pval
rs543874	A		G		1.92E-01	3.15E-02	5.80E-03	4.53E-08
rs6755502	T		C		8.32E-01	3.92E-02	6.10E-03	1.41E-10
rs6738627	G		A		3.70E-01	3.04E-02	5.20E-03	5.68E-09
rs2943652	C		T		6.40E-01	-3.35E-02	4.70E-03	1.53E-12
rs693839	C		T		6.80E-01	-2.83E-02	4.90E-03	6.56E-09
rs4788099	A		G		3.83E-01	2.69E-02	4.70E-03	1.21E-08
rs1558902	T		A		4.04E-01	5.10E-02	4.70E-03	3.79E-27
rs9906944	C		T		3.28E-01	-3.33E-02	6.00E-03	2.86E-08
rs6567160	T		C		2.50E-01	3.41E-02	5.30E-03	1.33E-10
rs6857	C		T		1.61E-01	-4.80E-02	8.30E-03	6.84E-09

Supplementary Table S4: Genome-wide significant independent SNPs for waist-hip ratio

SNP	effect	_alle	other	_alle	eaf	beta	se	pval
rs12143789	G		C		1.58E-01	2.40E-02	4.20E-03	7.60E-09
rs2645294	C		T		5.35E-01	3.10E-02	3.50E-03	1.70E-19
rs905938	T		C		3.25E-01	-2.50E-02	4.00E-03	7.30E-10
rs714515	G		A		5.42E-01	-2.70E-02	3.40E-03	4.40E-15
rs2820443	T		C		3.00E-01	-3.50E-02	3.70E-03	5.30E-21
rs1385167	A		G		1.42E-01	2.90E-02	4.90E-03	1.80E-09
rs1128249	G		T		4.42E-01	-2.80E-02	3.50E-03	2.00E-15
rs1569135	A		G		4.67E-01	-2.10E-02	3.40E-03	5.60E-10
rs17819328	T		G		4.50E-01	2.10E-02	3.50E-03	2.40E-09
rs2276824	C		G		5.17E-01	-2.40E-02	3.60E-03	3.20E-11
rs6772129	A		G		2.42E-01	-3.50E-02	3.70E-03	3.40E-21
rs10804591	C		A		8.50E-01	2.40E-02	4.20E-03	6.60E-09
rs17451107	T		C		3.75E-01	-2.60E-02	3.60E-03	1.10E-12
rs9991328	C		T		4.83E-01	1.80E-02	3.40E-03	4.50E-08
rs303084	G		A		7.83E-01	2.30E-02	4.20E-03	3.90E-08
rs459193	A		G		7.83E-01	-2.60E-02	3.80E-03	1.60E-11
rs7705502	G		A		2.92E-01	2.70E-02	3.60E-03	4.70E-14
rs1294410	T		C		6.25E-01	3.10E-02	3.50E-03	2.00E-18
rs7759742	T		A		5.25E-01	2.30E-02	3.40E-03	4.40E-11
rs998584	C		A		4.75E-01	4.30E-02	3.80E-03	1.10E-29
rs1936805	C		T		5.50E-01	4.20E-02	3.40E-03	3.60E-35
rs10245353	C		A		1.83E-01	3.50E-02	4.30E-03	8.40E-16
rs12679556	T		G		2.08E-01	2.70E-02	4.00E-03	2.10E-11
rs10991437	C		A		1.00E-01	3.10E-02	5.40E-03	1.00E-08
rs11231693	G		A		4.17E-02	4.10E-02	7.50E-03	4.50E-08
rs10842707	C		T		1.67E-01	3.20E-02	4.00E-03	4.40E-16
rs2071449	C		A		3.25E-01	2.80E-02	3.60E-03	3.00E-14
rs4765219	C		A		3.75E-01	-2.80E-02	3.60E-03	1.60E-15
rs8042543	C		T		1.50E-01	-2.60E-02	4.30E-03	1.20E-09
rs8030605	G		A		1.58E-01	3.00E-02	5.30E-03	8.80E-09
rs1440372	T		C		7.42E-01	2.40E-02	3.80E-03	1.10E-10
rs4646404	G		A		3.75E-01	-2.70E-02	3.90E-03	1.40E-11
rs12608504	A		G		6.58E-01	-2.20E-02	3.60E-03	8.80E-10
rs4081724	G		A		1.50E-01	-3.50E-02	5.10E-03	7.40E-12
rs979012	T		C		6.42E-01	-2.70E-02	3.60E-03	3.30E-14
rs878639	A		G		3.58E-01	-2.10E-02	3.50E-03	5.10E-09
rs6090583	A		G		5.67E-01	-2.20E-02	3.40E-03	6.20E-11
rs2294239	A		G		4.50E-01	-2.50E-02	3.50E-03	7.20E-13

Supplementary Table S5: Genome-wide significant independent SNPs for smoke

SNP	effect	_alle	other	_alle	eaf	beta	se	pval
rs2072659	C		G		1.05E-01	-6.53E-02	9.25E-03	1.71E-12
rs2084533	C		T		3.19E-01	3.36E-02	5.90E-03	1.22E-08
rs7431710	G		A		6.44E-01	-3.50E-02	5.81E-03	1.82E-09
rs11725618	T		C		2.87E-01	3.61E-02	6.16E-03	4.67E-09
rs787362	T		A		4.52E-01	3.05E-02	5.57E-03	4.50E-08
rs806798	T		C		5.43E-01	-3.09E-02	5.53E-03	2.48E-08
rs215600	G		A		6.40E-01	-4.93E-02	5.75E-03	1.10E-17
rs73229090	C		A		1.13E-01	5.55E-02	8.76E-03	2.44E-10
rs58379124	T		C		7.48E-01	6.69E-02	6.50E-03	9.00E-25
rs790564	A		C		7.19E-01	-4.09E-02	6.19E-03	3.97E-11
rs3025383	T		C		1.80E-01	-5.78E-02	7.05E-03	2.22E-16
rs7951365	T		C		3.06E-01	3.90E-02	5.97E-03	6.63E-11
rs75494138	C		T		6.18E-02	5.99E-02	1.06E-02	1.45E-08
rs7928017	C		A		4.13E-01	-3.29E-02	5.56E-03	3.14E-09
rs632811	A		G		3.51E-01	-3.67E-02	6.41E-03	1.03E-08
rs11852372	A		C		3.28E-01	1.82E-01	5.91E-03	1.00E-200
rs1579233	A		G		5.71E-01	-3.18E-02	5.56E-03	1.07E-08
rs4785587	G		A		5.11E-01	-3.36E-02	5.53E-03	1.27E-09
rs895330	C		G		2.06E-01	-3.90E-02	7.02E-03	2.68E-08
rs34406232	C		A		2.59E-02	-1.47E-01	1.67E-02	1.33E-18
rs56113850	T		C		5.68E-01	1.07E-01	5.60E-03	1.10E-81
rs2424888	G		A		4.05E-01	3.35E-02	5.64E-03	2.76E-09
rs2273500	T		C		1.59E-01	6.81E-02	7.80E-03	2.47E-18

Supplementary Table S6: Genome-wide significant independent SNPs for subjective well-being

SNP	effect	_alle	other	_alle	eaf	beta	se	pval
rs2075677	A		G		7.74E-01	2.10E-02	4.00E-03	1.88E-08
rs258677	T		G		3.75E-01	1.70E-02	3.00E-03	9.46E-08
rs4842283	A		C		9.03E-01	-2.90E-02	6.00E-03	1.94E-07
rs6587766	T		C		4.10E-02	4.70E-02	9.00E-03	2.52E-07
rs7239776	A		T		5.30E-01	-1.60E-02	3.00E-03	3.31E-07
rs12143280	T		C		9.44E-01	3.80E-02	8.00E-03	6.46E-07
rs17693963	A		C		8.97E-01	-2.60E-02	5.00E-03	9.25E-07
rs17331012	A		G		1.29E-01	-2.30E-02	5.00E-03	1.10E-06
rs11612312	T		C		8.06E-01	1.90E-02	4.00E-03	1.37E-06
rs4589952	T		C		1.55E-01	-2.10E-02	4.00E-03	1.55E-06
rs13235506	T		G		9.55E-01	-3.40E-02	7.00E-03	1.96E-06
rs17005492	T		C		7.85E-01	1.80E-02	4.00E-03	2.01E-06
rs10769190	T		C		1.98E-01	1.80E-02	4.00E-03	2.19E-06
rs12298541	A		C		3.56E-01	1.60E-02	3.00E-03	2.28E-06
rs2017279	A		G		6.79E-01	1.60E-02	3.00E-03	3.15E-06
rs11073619	T		C		1.05E-01	2.50E-02	5.00E-03	3.42E-06
rs7149000	A		G		4.59E-01	-1.40E-02	3.00E-03	4.77E-06

Supplementary Table S7: Genome-wide significant independent SNPs for depressive symptoms

SNP	effect	alle	other_alle	eaf	beta	se	pval
rs7973260	A		G	1.90E-01	3.10E-02	5.00E-03	1.78E-09
rs62100776	A		T	5.28E-01	-2.50E-02	4.00E-03	8.45E-09
rs6992714	T		C	7.20E-01	2.00E-02	4.00E-03	9.32E-08
rs10233018	A		G	4.91E-01	-1.80E-02	4.00E-03	1.65E-07
rs1690818	T		C	7.02E-01	-1.90E-02	4.00E-03	4.05E-07
rs7074335	T		C	1.75E-01	3.50E-02	7.00E-03	4.57E-07
rs9845113	C		G	4.35E-01	1.80E-02	4.00E-03	4.64E-07
rs9427622	T		C	3.94E-01	-2.10E-02	4.00E-03	4.75E-07
rs59659806	T		C	8.08E-01	-2.20E-02	4.00E-03	6.01E-07
rs853679	A		C	1.27E-01	-2.30E-02	5.00E-03	6.62E-07
rs11636582	T		G	6.16E-02	-4.20E-02	9.00E-03	6.98E-07
rs652714	A		G	1.51E-01	-2.30E-02	5.00E-03	8.95E-07
rs4810896	A		C	3.56E-01	-1.70E-02	3.00E-03	9.00E-07
rs4942916	T		C	6.87E-01	-2.20E-02	5.00E-03	9.97E-07
rs6458013	T		C	6.81E-01	2.30E-02	5.00E-03	1.02E-06
rs782212	T		C	3.64E-01	-1.80E-02	4.00E-03	1.23E-06
rs3783005	A		T	7.20E-01	2.10E-02	4.00E-03	1.33E-06
rs1877075	A		G	3.23E-01	-2.20E-02	5.00E-03	2.00E-06
rs1961982	A		G	3.32E-01	-2.20E-02	5.00E-03	2.25E-06
rs2017122	T		C	7.09E-02	3.30E-02	7.00E-03	2.32E-06
rs139560451	T		C	2.61E-02	-5.90E-02	1.30E-02	2.88E-06
rs72939513	A		G	5.60E-02	-4.40E-02	9.00E-03	3.14E-06
rs11587416	T		C	2.33E-01	-2.60E-02	6.00E-03	3.46E-06
rs148701159	A		G	9.18E-01	3.50E-02	8.00E-03	3.74E-06
rs77508728	T		C	2.24E-02	5.50E-02	1.20E-02	4.91E-06

Supplementary Table S8: Genome-wide significant independent SNPs for major depression

SNP	effect	alle	other_alle	eaf	beta	se	pval
rs4141983	T	C		3.26E-01	-2.64E-02	4.60E-03	9.69E-09
rs354155	G	C		9.23E-02	-4.49E-02	7.50E-03	1.75E-09
rs7551758	T	G		5.33E-01	2.83E-02	4.30E-03	5.11E-11
rs7538938	T	C		5.60E-01	2.51E-02	4.30E-03	7.29E-09
rs2568958	G	A		6.04E-01	3.82E-02	4.40E-03	2.90E-18
rs10913112	C	T		3.78E-01	-2.62E-02	4.50E-03	4.53E-09
rs17641524	C	T		2.10E-01	-3.00E-02	5.30E-03	1.50E-08
rs2111592	G	A		3.14E-01	2.63E-02	4.60E-03	1.35E-08
rs72948506	G	A		2.98E-01	2.65E-02	4.70E-03	1.71E-08
rs9831648	G	T		7.74E-01	-2.92E-02	5.20E-03	1.59E-08
rs9831249	A	G		4.17E-01	2.47E-02	4.40E-03	1.41E-08
rs76954012	T	A		9.31E-02	4.12E-02	7.40E-03	2.41E-08
rs66511648	T	C		2.84E-01	2.97E-02	4.80E-03	6.03E-10
rs699927	T	G		4.17E-01	2.40E-02	4.40E-03	3.79E-08
rs247910	A	G		4.57E-01	2.37E-02	4.30E-03	4.71E-08
rs30266	G	A		3.27E-01	3.66E-02	4.60E-03	1.43E-15
rs7725715	G	A		5.34E-01	2.90E-02	4.30E-03	1.61E-11
rs150186873	A	C		3.27E-02	7.04E-02	1.20E-02	4.51E-09
rs67981811	C	G		1.06E-01	-6.20E-02	7.00E-03	1.14E-18
rs2214123	A	G		6.47E-01	-2.61E-02	4.50E-03	8.56E-09
rs2876520	C	G		4.69E-01	2.60E-02	4.30E-03	2.24E-09
rs9364755	A	G		2.26E-01	2.83E-02	5.10E-03	3.49E-08
rs10235664	T	C		2.53E-01	-2.70E-02	4.90E-03	4.68E-08
rs3807865	G	A		4.11E-01	3.10E-02	4.40E-03	1.09E-12
rs59082935	C	T		1.34E-01	3.63E-02	6.60E-03	3.07E-08
rs2522831	T	C		4.74E-01	2.40E-02	4.30E-03	2.11E-08
rs4730387	T	A		4.66E-01	2.38E-02	4.30E-03	4.12E-08
rs150346963	C	T		4.12E-01	2.83E-02	4.40E-03	1.16E-10
rs1931388	A	G		4.04E-01	-2.95E-02	4.40E-03	1.68E-11
rs59283172	G	A		1.08E-01	-3.90E-02	7.00E-03	2.41E-08
rs62535714	G	A		1.64E-01	3.39E-02	5.80E-03	4.69E-09
rs2418449	T	C		2.81E-01	-2.81E-02	4.80E-03	4.25E-09
rs1021363	A	G		6.43E-01	-3.00E-02	4.50E-03	2.29E-11
rs198457	C	T		1.89E-01	-3.15E-02	5.60E-03	1.90E-08
rs4497414	T	C		4.40E-01	2.91E-02	4.40E-03	2.93E-11
rs4936276	G	C		6.22E-01	2.78E-02	4.40E-03	3.57E-10
rs61914045	G	A		2.03E-01	3.09E-02	5.40E-03	7.96E-09
rs9529218	C	T		2.03E-01	-3.40E-02	5.40E-03	2.23E-10
rs9536381	C	T		3.26E-01	2.55E-02	4.60E-03	2.62E-08
rs508502	C	T		2.99E-01	-2.64E-02	4.80E-03	3.56E-08
rs1950829	A	G		5.17E-01	-2.97E-02	4.30E-03	4.74E-12
rs7152906	T	C		5.20E-01	2.58E-02	4.30E-03	1.87E-09
rs754287	T	A		3.66E-01	-2.89E-02	4.50E-03	1.31E-10
rs28541419	C	G		2.31E-01	-2.92E-02	5.20E-03	1.76E-08
rs12919291	G	C		1.88E-01	3.27E-02	5.50E-03	3.09E-09
rs4799949	C	T		6.68E-01	-2.92E-02	4.60E-03	1.40E-10
rs1367635	T	C		5.15E-01	2.53E-02	4.30E-03	4.35E-09
rs12967143	G	C		7.01E-01	-3.45E-02	4.70E-03	2.53E-13
rs7241572	G	A		2.05E-01	3.23E-02	5.40E-03	2.43E-09
rs13037326	C	T		2.60E-01	3.10E-02	4.90E-03	2.40E-10

Supplementary Table S9: Genome-wide significant independent SNPs for age at first birth

SNP	effect	_alle	other	_alle	beta	se	pval
rs6593917	A		G		2.04E-01	4.19E-02	1.15E-06
rs28609148	A		G		-4.26E-01	7.98E-02	9.42E-08
rs677423	A		G		-1.52E-01	3.21E-02	2.19E-06
rs12705262	C		T		1.78E-01	3.17E-02	1.91E-08
rs10983511	A		T		1.80E-01	3.67E-02	8.83E-07
rs736777	C		A		2.97E-01	6.36E-02	3.13E-06
rs9570089	T		C		-1.72E-01	3.76E-02	4.91E-06
rs7163091	C		T		-2.20E-01	4.31E-02	3.15E-07
rs7237950	G		C		1.49E-01	3.17E-02	2.58E-06

Supplementary Table S10: Genome-wide significant independent SNPs for age at last live birth

SNP	effect	_alle	other	_alle	eaf	beta	se	pval
rs359253	G		A		6.39E-01	-2.23E-02	3.52E-03	2.40E-10
rs6446187	C		A		5.12E-01	-2.92E-02	3.38E-03	6.20E-18
rs1267490	G		A		8.14E-01	-2.44E-02	4.35E-03	2.10E-08
rs10964737	T		C		1.22E-02	8.63E-02	1.56E-02	2.90E-08
rs12250380	A		G		5.83E-01	2.02E-02	3.44E-03	4.20E-09
rs2208082	G		A		5.69E-01	1.91E-02	3.44E-03	2.90E-08

Supplementary Table S11: Genome-wide significant independent SNPs for age at menopause

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs200448	T		C		5.69E-01	-2.15E-02	3.73E-03	8.10E-09
rs9438982	C		A		6.82E-01	-4.71E-02	3.95E-03	7.40E-33
rs12046563	A		G		2.39E-01	-2.52E-02	4.32E-03	5.50E-09
rs55707872	A		C		3.14E-01	3.54E-02	3.98E-03	5.70E-19
rs72708144	T		C		4.16E-02	5.88E-02	9.21E-03	1.70E-10
rs12132692	C		T		9.57E-02	4.03E-02	6.27E-03	1.30E-10
rs4495657	T		C		5.95E-01	3.28E-02	3.76E-03	2.40E-18
rs4408133	G		C		3.35E-01	3.16E-02	3.91E-03	6.90E-16
rs6667957	T		C		4.30E-01	-2.60E-02	3.75E-03	4.30E-12
rs7779	G		C		7.28E-02	3.99E-02	7.07E-03	1.70E-08
rs809673	A		G		3.98E-01	-4.17E-02	3.77E-03	1.70E-28
rs17820747	A		C		2.38E-01	2.60E-02	4.34E-03	2.10E-09
rs76928871	A		G		1.92E-01	4.30E-02	4.69E-03	4.30E-20
rs62156695	A		G		1.04E-01	-6.41E-02	6.04E-03	2.70E-26
rs72827480	T		C		4.02E-01	2.71E-02	3.76E-03	6.00E-13
rs7589040	C		T		2.10E-01	-3.15E-02	4.50E-03	2.40E-12
rs4491723	A		G		2.62E-01	3.11E-02	4.18E-03	1.10E-13
rs4668354	C		G		6.25E-01	3.48E-02	3.80E-03	5.60E-20
rs6435156	C		T		2.55E-01	-2.63E-02	4.22E-03	4.50E-10
rs6736096	T		C		5.16E-01	2.01E-02	3.68E-03	4.70E-08
rs507926	T		C		8.33E-01	2.99E-02	4.94E-03	1.50E-09
rs17646517	C		G		2.31E-02	-7.16E-02	1.23E-02	5.10E-09
rs2624847	G		T		7.43E-01	2.68E-02	4.22E-03	2.10E-10
rs4679121	C		T		1.05E-01	-3.81E-02	6.05E-03	3.10E-10
rs9818740	G		A		2.75E-01	-2.78E-02	4.14E-03	1.70E-11
rs345985	C		T		4.20E-01	-2.39E-02	3.75E-03	1.90E-10
rs10937153	G		A		2.41E-01	3.61E-02	4.33E-03	7.40E-17
rs7661090	C		T		1.07E-01	-3.53E-02	5.96E-03	3.20E-09
rs34811474	G		A		2.31E-01	-2.39E-02	4.37E-03	4.50E-08
rs6830848	G		T		4.69E-01	-3.48E-02	3.68E-03	3.60E-21
rs1565909	C		T		4.87E-01	6.23E-02	3.69E-03	3.50E-64
rs9307242	T		C		3.55E-01	-2.72E-02	3.82E-03	1.20E-12
rs156520	C		A		2.85E-01	2.25E-02	4.12E-03	4.90E-08
rs12503643	G		T		3.97E-01	4.67E-02	3.77E-03	2.60E-35
rs419128	G		A		3.47E-01	-3.48E-02	3.86E-03	2.20E-19
rs10476835	G		A		4.87E-01	2.11E-02	3.69E-03	1.00E-08
rs2688194	T		C		8.33E-02	4.41E-02	6.66E-03	3.60E-11
rs72814771	T		G		9.86E-02	4.94E-02	6.25E-03	2.90E-15
rs9313736	G		A		3.86E-01	-3.14E-02	3.77E-03	8.00E-17
rs58279426	T		C		4.79E-01	6.76E-02	3.70E-03	1.50E-74
rs9358956	G		C		8.29E-01	-6.59E-02	4.94E-03	1.60E-40
rs4716056	A		G		3.74E-01	2.14E-02	3.79E-03	1.60E-08
rs1655907	T		C		8.45E-01	-2.90E-02	5.09E-03	1.10E-08
rs2524119	T		C		5.48E-01	2.38E-02	3.69E-03	1.20E-10
rs2844466	T		C		3.59E-01	-4.72E-02	3.84E-03	8.30E-35
rs78080415	T		C		1.45E-01	2.98E-02	5.25E-03	1.30E-08
rs6912979	T		C		2.83E-01	-2.55E-02	4.09E-03	4.30E-10
rs7778113	G		T		3.46E-01	2.80E-02	3.92E-03	9.40E-13
rs62445870	C		T		2.26E-02	7.46E-02	1.24E-02	1.90E-09
rs4049337	G		C		6.99E-01	-2.57E-02	4.02E-03	1.50E-10
rs74742883	T		G		2.18E-01	-3.11E-02	4.45E-03	3.00E-12
rs2519673	G		A		6.31E-01	-2.68E-02	3.82E-03	2.40E-12
rs6961014	C		G		7.88E-01	-2.90E-02	4.51E-03	1.20E-10
rs112190116	C		T		1.11E-02	1.43E-01	1.76E-02	5.10E-16
rs28797500	T		C		7.78E-01	-8.46E-02	4.43E-03	3.80E-81
rs7845046	T		A		9.49E-01	-4.92E-02	8.38E-03	4.40E-09

rs7827991	C	A	7.84E-02	4.17E-02	6.88E-03	1.30E-09
rs77952879	G	C	7.83E-02	-4.21E-02	6.95E-03	1.30E-09
rs6470643	A	C	2.17E-01	-2.83E-02	4.47E-03	2.40E-10
rs10813912	A	G	6.23E-01	2.49E-02	3.80E-03	6.00E-11
rs74701710	G	A	5.61E-02	-4.83E-02	8.04E-03	1.80E-09
rs10998203	C	G	2.04E-01	-3.61E-02	4.58E-03	3.30E-15
rs7087644	A	G	4.09E-02	-8.39E-02	9.31E-03	2.00E-19
rs6584351	A	G	5.11E-01	2.05E-02	3.68E-03	2.60E-08
rs61870304	A	G	1.14E-01	-3.68E-02	6.11E-03	1.70E-09
rs728900	T	A	4.22E-01	-3.17E-02	3.76E-03	3.20E-17
rs1020622	C	G	4.25E-01	2.19E-02	3.73E-03	4.70E-09
rs11031005	T	C	1.44E-01	5.46E-02	5.27E-03	3.90E-25
rs7125555	C	T	4.84E-01	-2.76E-02	3.69E-03	6.50E-14
rs77100210	A	C	5.11E-02	1.13E-01	8.44E-03	5.60E-41
rs2277339	T	G	1.06E-01	-7.81E-02	6.00E-03	9.70E-39
rs184540366	G	T	2.24E-02	-8.48E-02	1.29E-02	4.60E-11
rs75770066	A	G	3.08E-02	2.31E-01	1.06E-02	8.09E-105
rs1790123	C	T	8.00E-01	3.47E-02	4.60E-03	4.70E-14
rs28416520	G	A	4.56E-01	-3.56E-02	3.73E-03	1.20E-21
rs11571818	T	C	9.42E-03	-1.13E-01	1.91E-02	3.30E-09
rs4886238	G	A	3.27E-01	3.80E-02	3.95E-03	6.30E-22
rs1760940	A	C	2.50E-01	-3.81E-02	4.26E-03	4.40E-19
rs17856037	C	T	2.53E-02	-7.40E-02	1.17E-02	2.90E-10
rs112217463	G	A	3.74E-01	-3.73E-02	3.82E-03	1.50E-22
rs2241522	A	G	3.39E-01	-2.16E-02	3.90E-03	2.90E-08
rs55848327	G	A	7.68E-01	2.52E-02	4.37E-03	8.80E-09
rs888368	A	G	5.05E-01	2.22E-02	3.68E-03	1.70E-09
rs9788714	G	A	3.81E-01	-4.29E-02	3.81E-03	1.80E-29
rs17680522	A	G	2.92E-01	2.32E-02	4.06E-03	1.20E-08
rs8045589	A	T	4.87E-01	-2.26E-02	3.70E-03	9.70E-10
rs251723	G	C	3.44E-01	5.17E-02	3.88E-03	2.00E-40
rs7499238	C	T	4.89E-01	-2.90E-02	3.95E-03	2.10E-13
rs10521305	T	C	5.94E-02	5.44E-02	7.78E-03	2.70E-12
rs4782369	G	C	3.26E-01	3.00E-02	3.93E-03	2.10E-14
rs6500437	T	C	3.15E-01	-3.55E-02	3.97E-03	4.60E-19
rs11650324	A	G	2.23E-01	3.91E-02	4.43E-03	1.10E-18
rs2941506	A	G	6.84E-01	3.74E-02	3.97E-03	5.20E-21
rs9915489	A	T	3.41E-01	4.36E-02	3.91E-03	7.20E-29
rs3803756	A	T	6.40E-01	-2.48E-02	3.84E-03	1.20E-10
rs17650301	A	C	2.96E-01	-4.01E-02	4.04E-03	2.80E-23
rs349306	G	A	8.72E-01	5.25E-02	5.61E-03	8.60E-21
rs2304192	A	G	6.75E-01	-2.82E-02	4.04E-03	3.00E-12
rs281163	A	G	3.31E-01	2.14E-02	3.92E-03	5.00E-08
rs60907808	A	G	1.44E-01	-4.44E-02	5.26E-03	3.20E-17
rs73037453	C	T	1.91E-01	-2.64E-02	4.69E-03	1.70E-08
rs12609254	C	T	1.08E-01	-3.39E-02	5.95E-03	1.20E-08
rs34962991	G	A	3.64E-01	-9.84E-02	3.83E-03	2.90E-145
rs299168	G	A	9.76E-02	5.06E-02	6.29E-03	8.00E-16
rs394448	G	C	5.15E-01	-2.05E-02	3.70E-03	3.20E-08
rs6139074	A	C	2.07E-01	-3.06E-02	4.56E-03	1.80E-11
rs16991615	G	A	6.14E-02	2.43E-01	7.66E-03	1.00E-200
rs746748	C	T	6.87E-02	4.74E-02	7.29E-03	7.50E-11
rs536092	C	T	3.83E-01	2.38E-02	3.81E-03	3.90E-10
rs7347500	G	A	2.21E-01	-4.89E-02	4.45E-03	4.50E-28
rs10854167	G	C	2.13E-01	-3.95E-02	4.51E-03	1.90E-18
rs9607474	C	T	1.18E-01	-3.24E-02	5.73E-03	1.50E-08
rs9613667	A	C	3.48E-01	-2.32E-02	3.88E-03	2.00E-09
rs4821798	T	C	3.08E-01	-4.35E-02	3.99E-03	1.20E-27

Supplementary Table S12: Genome-wide significant independent SNPs for systolic blood pressure

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs7796	C		G		4.89E-01	-3.39E-01	3.14E-02	5.00E-27
rs263532	T		C		4.25E-01	-1.80E-01	3.07E-02	4.72E-09
rs2493296	C		T		1.43E-01	4.18E-01	4.42E-02	3.14E-21
rs2232460	G		A		3.34E-01	-2.17E-01	3.20E-02	1.10E-11
rs488834	C		T		7.65E-01	-3.80E-01	3.65E-02	2.35E-25
rs6699618	C		G		1.60E-01	-9.12E-01	4.10E-02	1.68E-109
rs75461554	C		T		2.01E-01	-3.02E-01	3.77E-02	1.18E-15
rs1889785	G		A		4.55E-01	1.78E-01	3.04E-02	4.35E-09
rs404100	C		T		4.51E-01	1.94E-01	3.03E-02	1.68E-10
rs34079867	C		T		2.66E-01	1.99E-01	3.54E-02	1.78E-08
rs12137056	C		T		3.09E-01	-2.33E-01	3.28E-02	1.29E-12
rs11210029	A		G		3.68E-01	2.03E-01	3.13E-02	8.92E-11
rs1408945	G		T		4.24E-01	-3.20E-01	3.04E-02	8.33E-26
rs1209384	A		G		6.12E-01	-2.56E-01	3.13E-02	2.85E-16
rs778124	G		A		3.74E-01	2.97E-01	3.11E-02	1.45E-21
rs61772592	A		G		1.26E-01	3.18E-01	4.55E-02	2.86E-12
rs12063372	G		A		3.85E-01	1.99E-01	3.18E-02	3.86E-10
rs12136922	G		A		4.95E-01	2.03E-01	3.04E-02	2.69E-11
rs658780	T		G		2.55E-01	2.03E-01	3.47E-02	5.29E-09
rs786923	C		T		6.24E-01	-3.08E-01	3.10E-02	2.82E-23
rs7514579	A		C		2.29E-01	-2.24E-01	3.61E-02	5.45E-10
rs10776752	G		T		8.09E-02	8.21E-01	5.76E-02	4.61E-46
rs59980837	G		T		1.78E-02	1.10E+00	1.16E-01	3.32E-21
rs11585169	T		A		5.77E-01	1.80E-01	3.08E-02	5.34E-09
rs76719272	C		T		1.31E-01	-2.74E-01	4.61E-02	2.97E-09
rs12731646	C		T		4.09E-01	-1.89E-01	3.07E-02	7.21E-10
rs10914124	T		C		3.83E-01	-2.34E-01	3.12E-02	6.32E-14
rs4651224	C		T		4.47E-01	1.99E-01	3.06E-02	9.00E-11
rs12042924	T		C		4.72E-01	1.81E-01	3.03E-02	2.62E-09
rs11120093	C		T		4.08E-01	-1.79E-01	3.07E-02	5.13E-09
rs2724377	A		G		4.70E-01	-1.94E-01	3.01E-02	1.29E-10
rs7555285	G		C		8.01E-01	2.29E-01	3.76E-02	1.05E-09
rs68085857	C		T		2.34E-01	2.74E-01	3.57E-02	1.68E-14
rs72742507	C		T		3.00E-01	-2.05E-01	3.28E-02	3.80E-10
rs1745417	C		T		5.20E-01	2.87E-01	3.01E-02	1.59E-21
rs2493134	T		C		4.07E-01	3.74E-01	3.09E-02	1.10E-33
rs1565440	G		A		3.75E-01	1.75E-01	3.11E-02	1.93E-08
rs4926499	G		C		8.26E-01	2.97E-01	4.38E-02	1.33E-11
rs17760259	T		C		4.28E-01	2.65E-01	3.04E-02	2.25E-18
rs2384063	C		T		7.61E-01	3.27E-01	3.57E-02	6.33E-20
rs1275985	C		T		6.13E-01	-5.41E-01	3.08E-02	4.73E-69
rs13420463	A		G		2.27E-01	-3.14E-01	3.60E-02	2.72E-18
rs4952609	A		G		2.56E-01	-2.12E-01	3.47E-02	9.60E-10
rs115262049	A		T		8.68E-02	-5.89E-01	5.52E-02	1.29E-26
rs12464602	G		A		6.21E-01	-2.44E-01	3.15E-02	1.02E-14
rs13016772	C		T		7.65E-01	2.52E-01	3.55E-02	1.23E-12
rs2249105	A		G		3.68E-01	-2.93E-01	3.13E-02	7.63E-21
rs10188003	C		T		3.93E-01	1.88E-01	3.07E-02	8.80E-10
rs6731373	G		A		3.49E-01	1.91E-01	3.26E-02	4.18E-09
rs6732123	G		C		4.17E-01	-1.74E-01	3.07E-02	1.52E-08
rs4577304	T		C		4.77E-01	1.77E-01	3.02E-02	4.99E-09
rs72847885	A		G		3.37E-01	-2.41E-01	3.18E-02	3.08E-14
rs10207726	C		T		2.96E-01	-2.14E-01	3.30E-02	8.06E-11
rs6737318	A		G		2.22E-01	-2.35E-01	3.64E-02	1.13E-10
rs2580350	G		A		5.61E-01	1.77E-01	3.07E-02	8.39E-09
rs17257081	A		G		1.94E-01	-2.27E-01	3.92E-02	6.35E-09

rs55944332	A	G	2.37E-01	2.61E-01	3.55E-02	1.79E-13
rs62170470	T	C	3.98E-01	-1.97E-01	3.21E-02	7.68E-10
rs55732192	G	T	9.47E-02	-3.36E-01	5.21E-02	1.15E-10
rs268263	T	A	7.50E-01	5.94E-01	3.53E-02	1.77E-63
rs10048760	T	G	4.71E-01	1.86E-01	3.01E-02	6.56E-10
rs71421551	G	C	2.89E-01	2.37E-01	3.33E-02	1.05E-12
rs17610485	T	A	5.76E-01	1.74E-01	3.04E-02	1.06E-08
rs4894132	T	C	2.72E-01	-2.47E-01	3.42E-02	5.51E-13
rs12473915	G	A	2.02E-01	-2.95E-01	3.75E-02	3.42E-15
rs13412750	G	A	2.71E-01	-2.89E-01	3.41E-02	2.32E-17
rs12693982	C	T	4.02E-01	2.58E-01	3.09E-02	7.49E-17
rs3845811	C	G	4.34E-01	2.94E-01	3.09E-02	1.88E-21
rs12694277	T	C	7.05E-01	2.02E-01	3.35E-02	1.80E-09
rs2161967	T	G	5.72E-01	-2.84E-01	3.07E-02	2.87E-20
rs3828282	C	G	5.72E-01	-1.86E-01	3.18E-02	5.29E-09
rs10804330	T	C	4.33E-01	-2.35E-01	3.06E-02	1.62E-14
rs1044822	C	T	1.48E-01	-2.48E-01	4.24E-02	5.16E-09
rs3754944	C	A	5.88E-01	1.77E-01	3.08E-02	9.30E-09
rs139354822	T	C	2.96E-02	-6.12E-01	9.75E-02	3.51E-10
rs9848170	G	C	5.97E-01	3.23E-01	3.07E-02	7.01E-26
rs11925504	G	A	5.72E-01	-2.90E-01	3.05E-02	1.78E-21
rs189267552	T	A	1.32E-02	-8.66E-01	1.39E-01	4.55E-10
rs2643826	C	T	4.51E-01	4.47E-01	3.06E-02	1.74E-48
rs68115553	A	G	1.99E-02	6.45E-01	1.14E-01	1.74E-08
rs743395	C	T	3.83E-01	2.60E-01	3.17E-02	2.55E-16
rs6788984	A	G	1.44E-01	-3.00E-01	4.32E-02	3.81E-12
rs1052501	C	T	8.33E-01	2.26E-01	4.12E-02	4.14E-08
rs6771917	T	C	7.52E-01	3.79E-01	3.55E-02	1.39E-26
rs7615099	A	G	3.33E-01	-1.89E-01	3.21E-02	3.90E-09
rs6445583	G	A	7.47E-01	2.77E-01	3.49E-02	1.90E-15
rs3772219	A	C	3.18E-01	-2.73E-01	3.24E-02	3.10E-17
rs7618284	G	C	3.39E-01	-1.89E-01	3.31E-02	1.10E-08
rs4499560	A	T	6.83E-01	2.20E-01	3.26E-02	1.46E-11
rs1375564	C	T	6.40E-01	2.58E-01	3.15E-02	2.84E-16
rs12637573	A	G	5.28E-01	1.73E-01	3.02E-02	9.95E-09
rs6438857	T	C	4.23E-01	-2.74E-01	3.05E-02	3.13E-19
rs9880098	G	A	3.95E-01	3.08E-01	3.08E-02	1.59E-23
rs1199330	A	G	1.18E-01	2.65E-01	4.70E-02	1.65E-08
rs9876694	C	T	5.84E-02	4.71E-01	6.51E-02	4.64E-13
rs4408839	A	G	2.57E-01	2.30E-01	3.45E-02	2.42E-11
rs79539362	T	C	1.01E-01	-4.00E-01	5.04E-02	2.09E-15
rs6788907	G	A	2.68E-01	2.21E-01	3.39E-02	7.31E-11
rs3980686	G	T	1.08E-01	-5.00E-01	4.87E-02	1.03E-24
rs1290784	C	T	4.48E-01	4.12E-01	3.03E-02	2.97E-42
rs2111557	C	T	4.68E-01	1.76E-01	3.02E-02	5.22E-09
rs4955575	A	C	2.54E-01	-2.16E-01	3.48E-02	5.63E-10
rs262986	G	A	4.70E-01	-2.37E-01	3.05E-02	7.67E-15
rs13091418	C	G	3.34E-01	2.23E-01	3.25E-02	6.15E-12
rs9869437	C	A	3.52E-01	-2.00E-01	3.18E-02	3.22E-10
rs34535756	C	T	3.94E-02	4.78E-01	7.86E-02	1.18E-09
rs1290933	C	A	6.92E-01	-2.85E-01	3.27E-02	3.17E-18
rs2498323	G	A	9.80E-02	3.17E-01	5.17E-02	8.51E-10
rs2610990	A	G	7.36E-01	2.90E-01	3.43E-02	2.86E-17
rs55924432	C	T	4.01E-01	2.65E-01	3.17E-02	5.70E-17
rs2291434	G	T	5.34E-01	-2.62E-01	3.03E-02	5.10E-18
rs12511987	T	G	1.77E-01	2.33E-01	3.99E-02	5.39E-09
rs62309747	G	A	4.73E-01	-2.24E-01	3.04E-02	1.59E-13
rs60991988	T	G	1.07E-01	-3.79E-01	4.98E-02	2.82E-14

rs13107261	G	A	3.69E-01	-1.78E-01	3.14E-02	1.57E-08
rs5020545	C	T	4.44E-01	-2.18E-01	3.05E-02	9.71E-13
rs12509595	T	C	2.92E-01	8.37E-01	3.34E-02	2.55E-138
rs6823199	T	C	2.56E-01	-2.09E-01	3.48E-02	1.72E-09
rs17010957	T	C	1.46E-01	5.34E-01	4.30E-02	1.78E-35
rs13149209	T	C	2.23E-01	-2.81E-01	3.67E-02	1.97E-14
rs13107325	C	T	7.39E-02	-9.09E-01	5.92E-02	4.22E-53
rs11097909	T	C	8.53E-01	3.63E-01	4.30E-02	3.35E-17
rs1493132	T	C	3.40E-01	1.77E-01	3.18E-02	2.73E-08
rs1814951	G	A	8.79E-01	-3.23E-01	4.66E-02	3.91E-12
rs4834792	T	A	4.80E-01	1.97E-01	3.03E-02	7.24E-11
rs7439567	C	T	4.11E-01	2.54E-01	3.09E-02	2.31E-16
rs72719160	A	T	3.17E-01	2.24E-01	3.24E-02	4.34E-12
rs2353940	T	C	2.49E-01	2.08E-01	3.58E-02	6.85E-09
rs73855810	G	A	1.41E-01	2.73E-01	4.34E-02	3.04E-10
rs7683728	C	T	5.31E-01	-3.65E-01	3.04E-02	2.43E-33
rs12643599	A	G	3.61E-01	-3.13E-01	3.13E-02	1.23E-23
rs17035181	T	G	1.45E-01	-3.07E-01	4.29E-02	7.61E-13
rs869396	C	A	4.66E-01	-2.12E-01	3.05E-02	4.12E-12
rs4957026	A	G	6.60E-01	-1.98E-01	3.23E-02	8.12E-10
rs10069690	C	T	2.58E-01	3.10E-01	3.69E-02	4.47E-17
rs7725413	C	T	7.70E-01	-1.99E-01	3.59E-02	3.07E-08
rs12656497	T	C	5.97E-01	6.38E-01	3.07E-02	7.14E-96
rs10941043	T	G	2.90E-01	2.59E-01	3.32E-02	6.42E-15
rs7722243	G	A	5.04E-01	-2.05E-01	3.02E-02	1.21E-11
rs1664781	G	A	6.93E-01	2.64E-01	3.26E-02	5.69E-16
rs28650790	C	T	1.89E-01	2.29E-01	3.87E-02	3.30E-09
rs12657950	C	T	7.44E-02	4.55E-01	5.90E-02	1.27E-14
rs6870654	T	C	2.55E-01	-2.14E-01	3.47E-02	7.58E-10
rs73103937	T	C	2.68E-01	-2.05E-01	3.44E-02	2.35E-09
rs7703560	A	G	3.00E-01	2.25E-01	3.33E-02	1.51E-11
rs246973	C	T	2.88E-01	2.48E-01	3.35E-02	1.45E-13
rs6452769	G	A	2.05E-01	-3.14E-01	3.77E-02	7.82E-17
rs76443575	G	C	3.59E-02	-5.23E-01	8.16E-02	1.40E-10
rs1871190	G	T	3.35E-01	1.95E-01	3.24E-02	1.66E-09
rs11241313	C	T	3.11E-01	-2.07E-01	3.26E-02	2.23E-10
rs1422279	C	T	3.86E-01	3.31E-01	3.09E-02	1.05E-26
rs9327297	C	G	3.32E-01	-2.75E-01	3.19E-02	8.07E-18
rs10045307	C	G	2.27E-01	2.02E-01	3.62E-02	2.21E-08
rs6892983	C	A	4.02E-01	3.43E-01	3.07E-02	7.11E-29
rs702395	C	T	4.37E-01	2.32E-01	3.05E-02	3.24E-14
rs2913920	C	T	7.65E-01	2.42E-01	3.59E-02	1.62E-11
rs1957563	C	T	2.65E-01	3.63E-01	3.42E-02	2.32E-26
rs11960210	T	C	3.76E-01	-4.73E-01	3.13E-02	1.25E-51
rs13358657	A	G	1.33E-01	3.88E-01	4.45E-02	2.95E-18
rs3860770	G	A	2.92E-01	-2.66E-01	3.33E-02	1.20E-15
rs12153395	G	A	1.15E-01	-3.30E-01	4.86E-02	1.07E-11
rs2745599	A	G	4.48E-01	-2.16E-01	3.17E-02	8.96E-12
rs1575290	C	T	4.73E-01	1.97E-01	3.01E-02	5.59E-11
rs1630736	C	T	4.65E-01	-1.71E-01	3.09E-02	3.52E-08
rs9349379	A	G	4.07E-01	-2.66E-01	3.12E-02	1.31E-17
rs9368222	C	A	2.69E-01	2.28E-01	3.39E-02	1.84E-11
rs2655445	G	A	6.07E-01	-2.02E-01	3.12E-02	9.58E-11
rs79782817	G	T	1.03E-01	5.32E-01	4.99E-02	1.43E-26
rs116025100	G	A	3.83E-02	5.37E-01	8.51E-02	2.86E-10
rs2607015	G	C	4.20E-01	4.47E-01	3.09E-02	2.76E-47
rs2815063	C	A	1.32E-01	2.76E-01	4.58E-02	1.76E-09
rs7763558	G	A	3.24E-01	3.36E-01	3.21E-02	1.17E-25

rs11967262	C	G	4.87E-01	1.72E-01	3.11E-02	3.43E-08
rs78648104	T	C	9.25E-02	4.29E-01	5.41E-02	2.36E-15
rs1984195	G	A	4.89E-01	2.41E-01	3.03E-02	1.77E-15
rs9361836	C	T	3.17E-01	2.20E-01	3.24E-02	1.25E-11
rs6921291	C	T	1.91E-01	3.58E-01	3.85E-02	1.58E-20
rs9486916	C	T	1.98E-01	2.66E-01	3.85E-02	5.42E-12
rs961764	C	G	5.75E-01	1.91E-01	3.05E-02	3.74E-10
rs10782230	G	A	4.85E-01	2.11E-01	3.02E-02	2.91E-12
rs9401913	G	A	4.39E-01	5.20E-01	3.05E-02	3.66E-65
rs2327429	T	C	2.92E-01	-2.00E-01	3.38E-02	3.16E-09
rs8180684	C	T	2.90E-01	2.13E-01	3.35E-02	1.80E-10
rs7765526	A	G	5.37E-01	-2.01E-01	3.07E-02	5.88E-11
rs17080102	G	C	6.94E-02	-8.09E-01	5.94E-02	3.52E-42
rs1293969	T	C	2.52E-01	1.99E-01	3.47E-02	1.03E-08
rs509833	A	G	8.61E-01	-3.29E-01	4.40E-02	7.08E-14
rs12661036	T	C	2.25E-01	2.10E-01	3.74E-02	1.82E-08
rs7744902	G	A	7.66E-02	-4.09E-01	5.93E-02	5.64E-12
rs6978112	C	T	4.11E-01	2.29E-01	3.09E-02	1.34E-13
rs10282122	C	T	6.68E-01	-3.02E-01	3.27E-02	2.46E-20
rs73049928	A	G	1.94E-01	2.38E-01	3.92E-02	1.20E-09
rs3807925	A	G	3.50E-01	1.86E-01	3.19E-02	5.39E-09
rs28688791	T	C	1.98E-01	3.22E-01	3.80E-02	2.34E-17
rs112509803	G	C	1.14E-01	-2.64E-01	4.77E-02	3.18E-08
rs3735533	T	C	9.26E-01	9.10E-01	5.77E-02	5.29E-56
rs6961048	C	G	1.04E-01	5.30E-01	4.97E-02	1.43E-26
rs977184	T	C	3.75E-01	1.84E-01	3.14E-02	4.86E-09
rs11977526	G	A	4.01E-01	-3.21E-01	3.12E-02	6.62E-25
rs12668436	T	C	2.46E-01	2.15E-01	3.50E-02	7.88E-10
rs848445	T	C	7.15E-01	2.03E-01	3.39E-02	2.28E-09
rs67617547	C	G	3.30E-01	-1.80E-01	3.22E-02	2.39E-08
rs42032	G	A	2.64E-01	-3.23E-01	3.45E-02	7.39E-21
rs2392929	T	G	2.03E-01	7.51E-01	3.79E-02	1.96E-87
rs34072724	G	A	4.89E-01	-2.42E-01	3.03E-02	1.37E-15
rs35680304	C	T	5.93E-01	2.69E-01	3.10E-02	3.76E-18
rs75672964	C	T	4.18E-02	5.89E-01	8.39E-02	2.35E-12
rs73727605	G	A	6.63E-02	3.62E-01	6.23E-02	6.60E-09
rs3918226	C	T	8.11E-02	6.64E-01	5.75E-02	8.46E-31
rs10224210	T	C	2.79E-01	3.83E-01	3.40E-02	1.60E-29
rs1870735	C	G	5.47E-01	-2.06E-01	3.11E-02	3.60E-11
rs6558535	T	C	7.15E-01	2.16E-01	3.36E-02	1.33E-10
rs1821002	C	G	5.89E-01	-3.79E-01	3.07E-02	5.19E-35
rs10866828	C	T	2.50E-01	2.48E-01	3.55E-02	3.19E-12
rs7821832	T	G	2.55E-01	-4.22E-01	3.48E-02	6.67E-34
rs77375686	A	G	1.12E-01	3.47E-01	4.85E-02	8.38E-13
rs1906672	G	A	2.32E-01	2.97E-01	3.58E-02	1.20E-16
rs4873492	C	T	1.72E-01	3.43E-01	4.03E-02	1.61E-17
rs2354862	A	C	3.59E-01	-2.51E-01	3.17E-02	2.42E-15
rs13253358	C	T	2.98E-01	2.13E-01	3.30E-02	1.13E-10
rs2126474	G	T	4.13E-01	-2.60E-01	3.06E-02	1.87E-17
rs9918879	G	T	1.03E-01	-2.98E-01	4.99E-02	2.28E-09
rs148401029	C	A	3.52E-02	-4.62E-01	8.48E-02	4.97E-08
rs62512914	A	G	4.15E-01	-2.07E-01	3.06E-02	1.42E-11
rs7830689	G	A	4.22E-01	1.77E-01	3.06E-02	8.07E-09
rs34917849	G	C	1.27E-01	3.12E-01	4.54E-02	5.97E-12
rs1786345	A	C	4.34E-01	-2.07E-01	3.07E-02	1.34E-11
rs79069610	T	C	5.00E-02	4.01E-01	7.27E-02	3.68E-08
rs35783704	G	A	1.04E-01	-4.62E-01	5.07E-02	8.81E-20
rs2470004	C	T	8.18E-01	-3.45E-01	3.92E-02	1.28E-18

rs4598218	C	T	6.16E-01	1.91E-01	3.13E-02	1.00E-09
rs7012866	T	G	5.01E-01	2.33E-01	3.01E-02	1.21E-14
rs4440615	G	A	6.32E-01	-2.20E-01	3.12E-02	1.87E-12
rs4961293	C	T	4.51E-01	2.27E-01	3.03E-02	7.35E-14
rs7463212	T	A	5.45E-01	-2.75E-01	3.05E-02	1.81E-19
rs60191654	A	G	1.88E-01	2.38E-01	3.85E-02	5.88E-10
rs927315	C	T	4.71E-01	1.69E-01	3.03E-02	2.44E-08
rs1332813	T	C	6.49E-01	-2.20E-01	3.14E-02	2.32E-12
rs9886665	T	C	7.33E-01	-2.05E-01	3.43E-02	2.47E-09
rs4553000	C	T	5.14E-01	-2.04E-01	3.00E-02	1.09E-11
rs76452347	C	T	2.05E-01	-2.97E-01	3.97E-02	7.13E-14
rs10746963	A	G	8.17E-01	2.18E-01	3.88E-02	2.05E-08
rs7045409	T	A	3.67E-01	-1.86E-01	3.13E-02	2.55E-09
rs10980408	T	C	3.59E-02	7.61E-01	8.27E-02	3.83E-20
rs2900568	C	T	5.18E-01	-1.89E-01	3.00E-02	2.96E-10
rs34025993	A	G	5.86E-01	-2.23E-01	3.08E-02	4.71E-13
rs7854147	A	G	1.23E-01	-3.06E-01	4.61E-02	3.29E-11
rs3104552	T	C	4.39E-01	-2.45E-01	3.03E-02	6.31E-16
rs6271	C	T	7.35E-02	-5.55E-01	6.11E-02	1.18E-19
rs11145807	A	G	5.94E-01	-2.14E-01	3.22E-02	3.54E-11
rs11252324	G	T	7.71E-02	-4.16E-01	5.73E-02	3.61E-13
rs1623474	C	T	3.30E-01	3.83E-01	3.21E-02	7.66E-33
rs12258967	C	G	2.95E-01	-6.33E-01	3.37E-02	1.08E-78
rs3802517	T	A	4.62E-01	2.53E-01	3.01E-02	4.65E-17
rs12264186	C	T	1.87E-01	2.14E-01	3.87E-02	3.58E-08
rs4284362	C	A	7.18E-01	-2.26E-01	3.38E-02	2.61E-11
rs34130368	G	T	1.17E-01	-3.02E-01	4.97E-02	1.28E-09
rs4245599	A	G	5.42E-01	1.79E-01	3.05E-02	4.03E-09
rs57946343	T	C	1.47E-01	-7.16E-01	4.26E-02	2.10E-63
rs2236295	G	T	3.98E-01	-3.03E-01	3.09E-02	1.04E-22
rs2177843	C	T	1.51E-01	4.39E-01	4.32E-02	2.80E-24
rs10749572	G	T	5.44E-01	-2.03E-01	3.02E-02	1.88E-11
rs111866816	C	T	7.09E-02	3.57E-01	5.97E-02	2.29E-09
rs2689690	C	T	3.68E-01	-2.70E-01	3.16E-02	1.15E-17
rs57866767	T	C	4.32E-01	-4.50E-01	3.04E-02	1.14E-49
rs1006545	G	T	8.87E-01	6.85E-01	4.80E-02	3.50E-46
rs11191580	T	C	8.24E-02	-1.10E+00	5.50E-02	7.74E-89
rs117464403	G	A	1.83E-02	8.64E-01	1.20E-01	5.80E-13
rs12255372	G	T	2.88E-01	2.36E-01	3.35E-02	1.94E-12
rs60444686	G	A	4.06E-02	5.91E-01	7.82E-02	4.42E-14
rs740746	G	A	7.32E-01	4.56E-01	3.42E-02	1.42E-40
rs11592107	G	A	3.10E-01	3.02E-01	3.26E-02	1.55E-20
rs7093894	C	A	1.51E-01	2.36E-01	4.27E-02	3.16E-08
rs7912283	G	A	6.47E-01	-2.14E-01	3.22E-02	2.94E-11
rs1133400	A	G	2.14E-01	2.98E-01	3.76E-02	2.53E-15
rs4980379	C	T	3.72E-01	5.76E-01	3.20E-02	2.47E-72
rs74048190	T	C	4.78E-02	4.40E-01	7.57E-02	6.07E-09
rs2957688	G	A	4.71E-01	3.47E-01	3.04E-02	2.74E-30
rs1544861	T	C	6.61E-01	-1.97E-01	3.18E-02	5.66E-10
rs2014408	C	T	2.09E-01	5.17E-01	3.73E-02	1.26E-43
rs177551	C	A	1.34E-01	3.73E-01	4.42E-02	3.47E-17
rs17762	G	A	7.77E-02	4.12E-01	5.71E-02	5.60E-13
rs1382472	G	A	4.04E-01	-1.92E-01	3.07E-02	4.47E-10
rs871004	G	A	3.48E-01	2.34E-01	3.17E-02	1.65E-13
rs10501122	T	C	3.61E-01	-1.92E-01	3.15E-02	1.18E-09
rs11604357	C	A	1.62E-01	-2.77E-01	4.11E-02	1.60E-11
rs7107356	A	G	5.04E-01	4.60E-01	3.01E-02	1.63E-52
rs2904315	A	G	6.87E-01	2.08E-01	3.25E-02	1.58E-10

rs2276153	C	G	2.43E-01	-3.30E-01	3.51E-02	6.56E-21
rs66864335	G	A	2.21E-01	-3.96E-01	3.65E-02	1.79E-27
rs74538877	G	C	5.57E-02	-3.86E-01	7.07E-02	4.97E-08
rs7395791	G	A	4.42E-01	-2.16E-01	3.08E-02	2.19E-12
rs72931748	A	G	9.85E-02	-3.97E-01	5.29E-02	6.40E-14
rs10501410	G	A	6.92E-02	4.12E-01	6.07E-02	1.10E-11
rs2289124	G	A	1.67E-01	-3.08E-01	4.15E-02	1.14E-13
rs604723	T	C	7.24E-01	6.55E-01	3.39E-02	2.55E-83
rs629864	C	T	6.50E-01	-1.87E-01	3.19E-02	4.69E-09
rs7926110	T	G	3.27E-01	-2.60E-01	3.21E-02	5.71E-16
rs236916	G	A	1.35E-01	3.17E-01	4.46E-02	1.31E-12
rs573455	A	G	5.39E-01	-1.99E-01	3.03E-02	4.77E-11
rs11222084	A	T	3.62E-01	3.36E-01	3.16E-02	1.80E-26
rs10750441	C	T	6.62E-01	1.75E-01	3.19E-02	3.74E-08
rs78998485	C	G	2.56E-01	2.45E-01	3.46E-02	1.48E-12
rs3819532	T	C	6.09E-01	1.88E-01	3.06E-02	9.44E-10
rs2024385	T	A	4.24E-01	-2.64E-01	3.06E-02	5.88E-18
rs1010064	A	C	1.84E-01	-3.57E-01	3.87E-02	3.02E-20
rs73075659	A	G	3.35E-01	-3.96E-01	3.21E-02	5.52E-35
rs2129869	A	T	2.22E-01	2.64E-01	3.61E-02	2.44E-13
rs9651825	A	G	2.71E-01	2.04E-01	3.40E-02	1.93E-09
rs61917655	C	T	1.01E-01	3.43E-01	5.14E-02	2.68E-11
rs12426261	A	G	6.21E-01	-3.78E-01	3.09E-02	2.31E-34
rs7134440	C	T	8.22E-02	4.79E-01	5.62E-02	1.58E-17
rs7134677	C	T	2.98E-01	-3.85E-01	3.32E-02	4.46E-31
rs7306710	T	C	5.19E-01	2.43E-01	3.03E-02	1.02E-15
rs4143175	T	C	7.59E-01	-2.19E-01	3.52E-02	5.10E-10
rs7963801	T	C	5.78E-01	2.36E-01	3.11E-02	2.87E-14
rs7980644	A	G	8.33E-01	-2.64E-01	4.04E-02	6.30E-11
rs17249754	G	A	1.68E-01	-8.45E-01	4.03E-02	1.25E-97
rs10777213	G	A	5.24E-01	-1.79E-01	2.99E-02	2.45E-09
rs5742643	T	C	7.51E-01	2.23E-01	3.49E-02	1.53E-10
rs7310615	C	G	5.18E-01	-5.85E-01	3.06E-02	1.32E-81
rs1896326	G	A	2.29E-01	-2.80E-01	3.71E-02	4.40E-14
rs35444	A	G	3.86E-01	-4.37E-01	3.10E-02	3.47E-45
rs6490019	A	G	6.20E-01	2.90E-01	3.09E-02	6.61E-21
rs1169078	C	G	3.12E-01	1.97E-01	3.27E-02	1.68E-09
rs117206641	C	T	1.11E-01	3.15E-01	4.99E-02	2.66E-10
rs483071	C	T	6.25E-01	2.71E-01	3.13E-02	5.09E-18
rs9507885	C	T	9.53E-02	-3.21E-01	5.42E-02	3.23E-09
rs9508495	C	T	7.57E-01	-3.56E-01	3.53E-02	6.34E-24
rs2065498	T	G	8.29E-01	2.93E-01	4.03E-02	3.36E-13
rs7491248	G	A	2.24E-01	2.16E-01	3.62E-02	2.37E-09
rs9526707	G	A	3.22E-01	-2.04E-01	3.23E-02	2.77E-10
rs75961402	G	A	1.53E-01	2.66E-01	4.18E-02	1.95E-10
rs17245822	A	C	3.73E-01	1.90E-01	3.12E-02	1.15E-09
rs78474310	A	G	4.48E-02	4.70E-01	7.34E-02	1.51E-10
rs6562778	A	G	5.41E-01	-1.78E-01	3.04E-02	4.95E-09
rs9549627	G	A	1.18E-01	2.85E-01	5.00E-02	1.25E-08
rs7331680	G	T	1.49E-01	4.10E-01	4.23E-02	3.35E-22
rs365990	A	G	3.66E-01	-2.25E-01	3.12E-02	5.95E-13
rs8904	G	A	3.68E-01	3.06E-01	3.14E-02	1.71E-22
rs7493678	A	T	3.49E-01	1.89E-01	3.16E-02	2.31E-09
rs72683923	T	C	2.12E-02	-9.59E-01	1.10E-01	3.08E-18
rs35413927	A	G	3.05E-01	3.00E-01	3.28E-02	5.25E-20
rs57140819	C	G	1.73E-01	-2.42E-01	3.98E-02	1.30E-09
rs11847049	C	G	2.17E-01	2.27E-01	3.64E-02	4.44E-10
rs11159091	G	A	4.62E-01	1.98E-01	3.03E-02	6.79E-11

rs7154723	G	A	3.85E-01	2.53E-01	3.09E-02	2.72E-16
rs17562391	C	T	4.19E-01	1.97E-01	3.06E-02	1.35E-10
rs75016974	C	T	1.42E-01	-2.51E-01	4.39E-02	1.05E-08
rs12885878	A	G	7.66E-01	2.29E-01	3.67E-02	4.32E-10
rs8030856	C	G	3.95E-01	1.76E-01	3.10E-02	1.21E-08
rs28866311	T	G	4.74E-01	2.76E-01	3.02E-02	5.45E-20
rs4775769	T	G	9.06E-01	4.16E-01	5.17E-02	7.76E-16
rs3098186	C	T	5.16E-01	-2.42E-01	3.03E-02	1.41E-15
rs2652812	C	T	7.54E-01	-2.52E-01	3.53E-02	1.03E-12
rs28429256	G	A	3.34E-01	2.15E-01	3.25E-02	3.89E-11
rs11636952	T	C	6.86E-01	-5.31E-01	3.28E-02	4.22E-59
rs2627313	C	T	4.45E-01	3.21E-01	3.03E-02	3.55E-26
rs2046341	G	A	1.92E-01	-2.54E-01	3.82E-02	2.74E-11
rs77032376	C	T	1.49E-01	-2.73E-01	4.30E-02	2.35E-10
rs4932373	A	C	3.26E-01	6.35E-01	3.28E-02	2.49E-83
rs12906962	T	C	3.24E-01	2.65E-01	3.25E-02	3.28E-16
rs2589218	T	C	2.70E-01	2.26E-01	3.39E-02	2.54E-11
rs4606697	G	A	1.04E-01	-3.20E-01	5.23E-02	9.71E-10
rs11641374	C	A	6.00E-01	-1.94E-01	3.09E-02	3.26E-10
rs12596630	C	T	9.03E-02	4.28E-01	5.47E-02	5.01E-15
rs72778133	T	C	1.42E-01	2.42E-01	4.43E-02	4.97E-08
rs2283500	A	C	1.10E-01	-3.11E-01	4.81E-02	1.08E-10
rs1049212	A	G	5.69E-01	2.99E-01	3.02E-02	4.59E-23
rs77924615	G	A	1.99E-01	-4.08E-01	3.90E-02	1.12E-25
rs7186298	C	T	4.30E-01	-2.32E-01	3.02E-02	1.88E-14
rs8044992	T	C	2.88E-01	-2.14E-01	3.31E-02	1.07E-10
rs34941092	G	A	1.50E-01	-3.23E-01	4.25E-02	3.23E-14
rs4784541	T	C	5.25E-01	2.02E-01	3.07E-02	4.93E-11
rs2060664	T	C	2.52E-01	-2.16E-01	3.45E-02	4.06E-10
rs146550789	T	C	4.17E-02	4.82E-01	7.78E-02	5.64E-10
rs62047964	C	T	6.22E-02	5.12E-01	6.86E-02	9.29E-14
rs1012089	C	G	5.25E-01	1.92E-01	3.02E-02	1.95E-10
rs4888408	G	A	5.86E-01	3.65E-01	3.07E-02	1.42E-32
rs12926550	G	A	3.16E-01	-2.55E-01	3.24E-02	3.43E-15
rs3950627	C	A	5.31E-01	1.85E-01	3.08E-02	1.82E-09
rs6540119	A	T	6.66E-01	-2.02E-01	3.22E-02	3.93E-10
rs908951	C	T	4.38E-01	-2.26E-01	3.15E-02	7.14E-13
rs9303175	T	G	6.54E-01	2.05E-01	3.27E-02	3.65E-10
rs11653927	C	T	3.85E-01	-2.80E-01	3.08E-02	1.17E-19
rs113086489	C	T	5.53E-01	3.25E-01	3.07E-02	3.80E-26
rs4511593	C	T	6.53E-01	-2.88E-01	3.18E-02	1.28E-19
rs117285318	T	C	7.75E-02	-4.41E-01	5.89E-02	6.93E-14
rs4925159	G	A	4.25E-01	2.17E-01	3.05E-02	9.66E-13
rs7218708	A	G	5.17E-01	1.78E-01	3.03E-02	4.38E-09
rs1551355	C	T	2.33E-01	2.10E-01	3.56E-02	3.89E-09
rs9899540	A	T	6.00E-01	-2.01E-01	3.16E-02	1.87E-10
rs7213273	G	A	6.55E-01	-4.00E-01	3.15E-02	6.24E-37
rs17608766	T	C	1.45E-01	6.90E-01	4.33E-02	2.48E-57
rs3764400	T	C	1.37E-01	-3.75E-01	4.45E-02	3.69E-17
rs9897429	G	A	5.20E-01	2.65E-01	3.19E-02	1.19E-16
rs1000423	C	T	7.32E-01	4.14E-01	3.46E-02	6.50E-33
rs56288724	A	G	4.17E-01	2.18E-01	3.10E-02	2.01E-12
rs62076622	A	G	1.99E-01	-2.36E-01	3.77E-02	3.79E-10
rs6504213	T	C	5.82E-01	2.98E-01	3.12E-02	1.25E-21
rs1436138	A	G	3.63E-01	-3.12E-01	3.15E-02	4.73E-23
rs9302885	A	G	5.55E-01	-2.24E-01	3.02E-02	1.03E-13
rs11655604	C	T	3.58E-01	-2.03E-01	3.33E-02	1.09E-09
rs34413141	T	A	1.82E-01	-3.53E-01	3.93E-02	2.47E-19

rs62082230	T	A	2.77E-01	-1.88E-01	3.45E-02	4.69E-08
rs1154214	T	G	6.04E-01	2.03E-01	3.06E-02	3.27E-11
rs56407827	C	T	2.69E-01	3.60E-01	3.40E-02	2.78E-26
rs11874246	C	T	2.96E-01	2.86E-01	3.28E-02	3.22E-18
rs7245140	T	C	1.80E-01	3.37E-01	3.91E-02	7.67E-18
rs1437649	G	A	2.35E-01	-2.19E-01	3.57E-02	8.57E-10
rs665445	C	A	2.79E-01	-1.91E-01	3.34E-02	1.15E-08
rs10048404	C	T	3.70E-01	-2.61E-01	3.17E-02	1.91E-16
rs10460108	A	G	5.20E-01	-2.14E-01	3.01E-02	1.12E-12
rs141958336	G	A	4.30E-02	7.81E-01	7.80E-02	1.36E-23
rs12610654	A	G	3.44E-01	-2.32E-01	3.20E-02	4.41E-13
rs12978472	C	G	1.24E-01	-8.45E-01	4.90E-02	1.23E-66
rs8105174	C	T	1.82E-01	-2.37E-01	3.98E-02	2.43E-09
rs2291516	G	A	1.03E-01	3.71E-01	5.05E-02	2.17E-13
rs34518929	G	A	2.62E-01	-2.20E-01	3.45E-02	1.79E-10
rs1848994	G	A	2.83E-01	2.01E-01	3.34E-02	1.79E-09
rs73040775	C	T	6.41E-02	-3.39E-01	6.19E-02	4.49E-08
rs28572357	A	C	3.98E-01	2.73E-01	3.08E-02	6.34E-19
rs1433121	C	T	6.91E-01	-2.28E-01	3.26E-02	2.66E-12
rs10420519	G	T	3.47E-02	-4.92E-01	8.87E-02	2.86E-08
rs7255933	G	A	2.57E-01	2.31E-01	3.45E-02	2.44E-11
rs11672660	C	T	2.00E-01	2.21E-01	3.81E-02	6.32E-09
rs571689	C	T	5.20E-01	2.28E-01	3.04E-02	6.77E-14
rs73046792	G	A	1.59E-01	-3.55E-01	4.26E-02	7.23E-17
rs6054139	G	A	6.06E-01	2.09E-01	3.06E-02	8.23E-12
rs2423514	A	G	4.59E-01	-3.01E-01	3.02E-02	1.77E-23
rs6108787	T	G	4.70E-01	4.27E-01	3.00E-02	5.38E-46
rs6078093	G	A	4.28E-01	-1.85E-01	3.04E-02	1.20E-09
rs8125763	C	A	4.72E-01	1.76E-01	3.01E-02	4.84E-09
rs17812022	C	T	9.58E-02	-3.61E-01	5.25E-02	5.65E-12
rs6058088	T	G	1.56E-01	-2.83E-01	4.17E-02	1.14E-11
rs79384779	C	T	1.51E-01	3.18E-01	4.28E-02	1.08E-13
rs6029756	G	A	3.23E-01	-2.71E-01	3.30E-02	1.88E-16
rs6031431	A	G	4.62E-01	2.62E-01	3.04E-02	7.05E-18
rs2598	A	G	4.67E-01	-1.68E-01	3.03E-02	2.87E-08
rs6090907	G	A	1.47E-01	-3.85E-01	4.25E-02	1.29E-19
rs2801008	T	G	3.18E-01	1.88E-01	3.24E-02	7.37E-09
rs6026578	C	G	6.27E-01	1.85E-01	3.16E-02	4.59E-09
rs6026744	A	T	1.23E-01	7.13E-01	4.61E-02	7.00E-54
rs6062324	G	A	2.36E-01	-3.29E-01	3.63E-02	1.18E-19
rs2776037	T	C	5.85E-01	1.85E-01	3.09E-02	2.15E-09
rs1882961	C	T	3.09E-01	2.44E-01	3.26E-02	6.69E-14
rs2833834	C	A	2.77E-01	2.18E-01	3.38E-02	1.22E-10
rs12627651	G	A	2.87E-01	3.50E-01	3.41E-02	1.02E-24
rs34487963	C	A	1.85E-02	-8.82E-01	1.24E-01	1.35E-12
rs7278003	T	C	5.62E-01	1.88E-01	3.04E-02	6.63E-10
rs2238787	G	A	2.92E-01	2.55E-01	3.32E-02	1.45E-14
rs12321	G	C	4.33E-01	-2.29E-01	3.03E-02	3.81E-14
rs113264678	C	T	4.60E-02	4.06E-01	7.27E-02	2.26E-08
rs8142376	C	T	4.91E-01	1.68E-01	3.00E-02	2.19E-08
rs148140538	C	T	8.08E-02	-3.25E-01	5.62E-02	7.39E-09
rs28578714	T	C	3.94E-01	-2.07E-01	3.27E-02	2.53E-10

Supplementary Table S13: Genome-wide significant independent SNPs for coffee

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs4615895	G		A		7.41E-01	1.22E-02	1.85E-03	4.20E-11
rs516636	C		A		2.09E-01	1.17E-02	1.98E-03	4.00E-09
rs13387939	C		A		8.28E-01	1.66E-02	2.14E-03	9.80E-15
rs780093	T		C		6.16E-01	1.33E-02	1.66E-03	1.00E-15
rs12989746	G		T		2.50E-01	1.04E-02	1.86E-03	2.80E-08
rs1527961	T		C		1.35E-01	-1.33E-02	2.37E-03	1.70E-08
rs2597805	C		T		6.82E-01	9.86E-03	1.76E-03	2.00E-08
rs2189234	T		G		6.18E-01	9.99E-03	1.66E-03	1.80E-09
rs12514566	G		A		3.37E-01	-1.14E-02	1.71E-03	2.40E-11
rs13163336	C		A		1.58E-01	1.49E-02	2.21E-03	1.30E-11
rs2465037	C		A		3.43E-01	-1.06E-02	1.71E-03	4.80E-10
rs1338549	T		G		5.34E-01	-9.45E-03	1.62E-03	5.60E-09
rs9398171	C		T		7.11E-01	1.09E-02	1.78E-03	1.10E-09
rs4410790	T		C		6.32E-01	3.91E-02	1.67E-03	1.20E-120
rs73075167	A		T		1.29E-01	-1.61E-02	2.44E-03	5.00E-11
rs7811609	C		T		3.75E-01	9.14E-03	1.66E-03	4.00E-08
rs34060476	A		G		1.34E-01	1.84E-02	2.37E-03	7.50E-15
rs1057868	C		T		2.85E-01	2.00E-02	1.79E-03	5.40E-29
rs78267637	C		G		3.81E-02	-2.54E-02	4.32E-03	3.90E-09
rs442355	G		C		2.54E-01	-1.11E-02	1.85E-03	1.90E-09
rs6469262	T		C		5.65E-01	-9.15E-03	1.63E-03	1.90E-08
rs10119174	G		C		5.71E-01	-9.40E-03	1.64E-03	1.00E-08
rs117810762	G		A		1.79E-02	3.59E-02	6.18E-03	6.20E-09
rs61928609	A		C		8.35E-01	-1.47E-02	2.18E-03	1.30E-11
rs2472297	C		T		2.63E-01	4.65E-02	1.83E-03	1.10E-142
rs117968677	G		A		2.42E-02	-3.10E-02	5.52E-03	1.90E-08
rs1421085	T		C		4.04E-01	1.85E-02	1.64E-03	1.70E-29
rs8056750	C		T		3.59E-01	1.05E-02	1.74E-03	1.30E-09
rs7224815	A		T		4.08E-01	-1.09E-02	1.64E-03	3.70E-11
rs62064918	C		T		2.45E-01	-1.03E-02	1.88E-03	4.10E-08
rs57918684	G		A		1.55E-01	1.29E-02	2.24E-03	8.60E-09
rs630194	T		C		3.43E-01	-1.14E-02	1.70E-03	2.30E-11
rs1942965	T		C		5.05E-01	-8.90E-03	1.62E-03	3.80E-08
rs476828	T		C		2.37E-01	1.73E-02	1.90E-03	5.60E-20
rs75347775	G		A		2.45E-01	1.05E-02	1.88E-03	2.70E-08
rs56113850	T		C		5.78E-01	1.27E-02	1.63E-03	8.90E-15
rs6063085	A		C		3.73E-01	1.04E-02	1.67E-03	4.50E-10
rs6062682	C		T		4.65E-01	1.04E-02	1.64E-03	2.50E-10
rs17842490	A		G		1.42E-02	-4.52E-02	6.81E-03	3.30E-11
rs13054099	T		C		2.61E-01	-1.08E-02	1.84E-03	4.30E-09

Supplementary Table S14: Genome-wide significant independent SNPs for cholesterol

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs11591147	G		T		9.83E-01	4.76E-02	3.03E-03	1.87E-55
rs472495	G		T		3.49E-01	-6.42E-03	8.35E-04	1.61E-14
rs7534572	C		G		3.54E-01	-8.12E-03	8.32E-04	1.72E-22
rs12740374	G		T		7.78E-01	1.83E-02	9.57E-04	1.38E-81
rs11580878	A		G		5.03E-01	5.14E-03	8.16E-04	2.94E-10
rs1367117	G		A		6.61E-01	-1.56E-02	8.40E-04	1.53E-76
rs1260326	T		C		3.93E-01	1.02E-02	8.14E-04	3.17E-36
rs4299376	G		T		3.23E-01	1.11E-02	8.51E-04	3.82E-39
rs12471811	A		T		8.93E-01	-8.48E-03	1.30E-03	5.96E-11
rs10804330	T		C		5.70E-01	5.02E-03	8.10E-04	5.99E-10
rs58691354	C		T		8.44E-01	-7.48E-03	1.11E-03	1.48E-11
rs59950280	G		A		6.69E-01	-5.83E-03	8.56E-04	1.01E-11
rs34707604	T		C		7.43E-01	-5.85E-03	9.56E-04	9.24E-10
rs12916	T		C		5.99E-01	-1.05E-02	8.12E-04	4.01E-38
rs4704727	T		G		3.40E-01	-7.49E-03	8.41E-04	5.23E-19
rs2237107	C		G		7.96E-01	7.02E-03	9.87E-04	1.19E-12
rs622871	A		G		3.14E-01	-6.51E-03	8.58E-04	3.39E-14
rs6458349	G		A		2.77E-01	-5.66E-03	8.90E-04	2.10E-10
rs9376091	C		T		7.38E-01	5.30E-03	9.10E-04	5.72E-09
rs456598	G		A		8.58E-01	-6.57E-03	1.14E-03	8.66E-09
rs117733303	A		G		9.81E-01	-3.12E-02	2.94E-03	2.99E-26
rs74617384	A		T		9.19E-01	-1.90E-02	1.46E-03	6.37E-39
rs4470903	C		G		7.82E-01	-6.70E-03	9.66E-04	3.85E-12
rs10260606	G		C		8.18E-01	-7.70E-03	1.03E-03	7.52E-14
rs799157	T		C		4.34E-02	1.08E-02	1.95E-03	3.16E-08
rs3918226	C		T		9.18E-01	-8.18E-03	1.48E-03	2.99E-08
rs7012637	G		A		5.25E-01	-4.80E-03	8.03E-04	2.30E-09
rs57180587	A		T		8.54E-01	-8.16E-03	1.12E-03	3.89E-13
rs10096633	C		T		8.77E-01	8.98E-03	1.21E-03	1.09E-13
rs10504255	G		A		3.38E-01	5.68E-03	8.42E-04	1.57E-11
rs28601761	C		G		5.78E-01	1.41E-02	8.16E-04	1.04E-66
rs1883025	C		T		7.47E-01	6.98E-03	9.16E-04	2.42E-14
rs635634	C		T		8.14E-01	-9.88E-03	1.03E-03	6.94E-22
rs56299331	C		T		7.98E-01	-5.73E-03	9.91E-04	7.55E-09
rs964184	G		C		1.32E-01	2.16E-02	1.17E-03	2.60E-75
rs2244608	A		G		6.85E-01	-7.02E-03	8.57E-04	2.50E-16
rs1601935	G		T		3.45E-01	6.14E-03	8.43E-04	3.28E-13
rs73534263	A		G		8.93E-01	-7.18E-03	1.30E-03	2.94E-08
rs34042070	C		G		8.14E-01	-9.44E-03	1.03E-03	3.53E-20
rs7213086	C		G		4.47E-01	-4.78E-03	8.01E-04	2.43E-09
rs77542162	A		G		9.77E-01	-2.54E-02	2.66E-03	1.51E-21
rs2125345	T		C		7.06E-01	5.64E-03	8.75E-04	1.19E-10
rs6511720	G		T		8.81E-01	2.61E-02	1.23E-03	2.77E-100
rs2738447	A		C		4.08E-01	-8.17E-03	8.11E-04	7.37E-24
rs58542926	C		T		9.24E-01	1.46E-02	1.51E-03	2.40E-22
rs28807203	A		C		9.51E-01	1.07E-02	1.85E-03	7.97E-09
rs10410835	T		C		4.76E-01	-7.11E-03	8.07E-04	1.25E-18
rs112019714	T		C		9.72E-01	-2.52E-02	2.42E-03	2.06E-25
rs7412	C		T		9.19E-01	3.74E-02	1.46E-03	4.73E-145
rs2618567	G		T		3.41E-01	4.75E-03	8.40E-04	1.56E-08
rs1883711	G		C		9.69E-01	-2.41E-02	2.33E-03	4.52E-25
rs6090040	A		C		4.80E-01	5.58E-03	8.01E-04	3.21E-12

Supplementary Table S15: Genome-wide significant independent SNPs for triglyceride

SNP	effect	_alle	other	_alle	beta	se	pval
rs2250802	A		G		2.30E-02	3.70E-03	5.09E-10
rs1781930	G		A		3.14E-02	4.30E-03	2.83E-13
rs7897379	T		C		2.74E-02	3.30E-03	1.01E-16
rs2068888	G		A		2.41E-02	3.40E-03	1.36E-12
rs11820504	C		T		6.04E-02	4.40E-03	6.97E-43
rs10790162	A		G		2.31E-01	6.50E-03	1.93E-275
rs10501321	T		C		2.16E-02	3.50E-03	6.77E-10
rs174535	C		T		4.70E-02	3.40E-03	1.84E-43
rs11057408	G		T		2.58E-02	3.50E-03	1.69E-13
rs1321257	G		A		4.02E-02	3.40E-03	2.95E-32
rs11613352	C		T		2.80E-02	3.90E-03	7.00E-13
rs12748152	T		C		3.72E-02	5.90E-03	2.88E-10
rs17513135	T		C		2.20E-02	3.90E-03	1.69E-08
rs492571	C		T		7.99E-02	8.80E-03	1.09E-19
rs2043085	T		C		3.27E-02	3.40E-03	6.74E-22
rs588136	C		T		4.95E-02	4.10E-03	1.46E-33
rs3198697	C		T		1.98E-02	3.40E-03	5.76E-09
rs4587594	G		A		6.94E-02	3.50E-03	1.69E-87
rs749671	G		A		2.11E-02	3.40E-03	5.44E-10
rs1800775	C		A		3.96E-02	3.50E-03	1.12E-29
rs8077889	C		A		2.52E-02	4.20E-03	1.97E-09
rs10401969	T		C		1.21E-01	6.50E-03	2.41E-77
rs731839	G		A		2.24E-02	3.60E-03	4.90E-10
rs439401	C		T		6.59E-02	3.80E-03	2.26E-67
rs3760627	C		T		1.89E-02	3.40E-03	2.72E-08
rs10426094	C		T		2.41E-02	4.00E-03	1.69E-09
rs4804311	A		G		3.92E-02	6.00E-03	6.43E-11
rs6029143	C		T		3.88E-02	7.10E-03	4.63E-08
rs4810479	C		T		4.74E-02	3.80E-03	1.04E-35
rs13389219	C		T		2.71E-02	3.40E-03	1.58E-15
rs676210	G		A		7.33E-02	3.90E-03	8.32E-79
rs2972146	T		G		2.81E-02	3.40E-03	1.40E-16
rs3761445	A		G		2.32E-02	3.40E-03	8.88E-12
rs1260326	T		C		1.15E-01	3.40E-03	6.50E-250
rs10440120	C		A		3.06E-02	4.40E-03	3.54E-12
rs645040	T		G		2.93E-02	4.00E-03	2.39E-13
rs6831256	G		A		2.58E-02	3.50E-03	1.69E-13
rs442177	T		G		3.09E-02	3.30E-03	7.70E-21
rs4704727	G		T		2.89E-02	3.50E-03	1.49E-16
rs9686661	T		C		3.79E-02	4.40E-03	7.08E-18
rs719726	T		C		1.99E-02	3.50E-03	1.30E-08
rs634869	T		C		2.72E-02	3.30E-03	1.69E-16
rs2665357	C		A		2.12E-02	3.30E-03	1.33E-10
rs2251830	C		A		2.36E-02	3.60E-03	5.54E-11
rs2247056	C		T		3.78E-02	3.90E-03	3.25E-22
rs998584	A		C		2.93E-02	3.70E-03	2.40E-15
rs38855	A		G		1.87E-02	3.30E-03	1.46E-08
rs287621	T		C		2.22E-02	3.70E-03	1.97E-09
rs4719841	G		A		2.32E-02	3.40E-03	8.88E-12
rs714052	A		G		1.08E-01	5.00E-03	3.17E-104
rs72555385	G		A		7.49E-02	1.24E-02	1.54E-09
rs6995541	G		A		2.65E-02	3.70E-03	7.94E-13
rs2954022	C		A		7.80E-02	3.30E-03	1.63E-123
rs12676857	C		T		3.32E-02	4.60E-03	5.30E-13
rs12679834	T		C		1.65E-01	5.40E-03	2.61E-204
rs4738684	A		G		2.05E-02	3.50E-03	4.71E-09

Supplementary Table S16: Genome-wide significant independent SNPs for fasting insulin

SNP	effect	alle	other	alle	beta	se	pval
rs2820468	A		G		1.50E-02	3.40E-03	3.77E-06
rs1260326	T		C		1.90E-02	3.20E-03	5.88E-09
rs2943653	C		T		1.60E-02	3.30E-03	7.74E-07
rs17035311	A		C		-2.00E-02	4.30E-03	2.33E-06
rs2820237	G		A		2.00E-02	3.90E-03	5.03E-07
rs1368761	G		C		-4.30E-02	9.40E-03	4.67E-06
rs2237331	C		A		-2.60E-02	5.60E-03	4.87E-06
rs1167800	G		A		2.00E-02	3.60E-03	2.40E-08
rs9987289	A		G		-3.00E-02	5.00E-03	1.65E-09
rs6474949	G		A		-4.20E-02	7.60E-03	5.29E-08
rs7903146	C		T		-1.80E-02	3.60E-03	2.76E-07
rs2114912	G		T		2.60E-02	4.10E-03	3.72E-10
rs12913456	T		G		-1.70E-02	3.60E-03	4.82E-06
rs2109439	C		G		1.50E-02	3.20E-03	1.06E-06

Supplementary Table S17: Genome-wide significant independent SNPs for insulin-like growth factor-1

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs115236209	T		G		6.63E-02	1.75E-01	2.68E-02	6.20E-11
rs17037452	A		G		1.64E-01	-1.18E-01	1.78E-02	3.75E-11
rs11260930	A		G		4.74E-01	-9.71E-02	1.33E-02	2.56E-13
rs3218192	G		T		5.09E-01	-7.79E-02	1.32E-02	3.37E-09
rs4659406	G		A		6.92E-01	-1.08E-01	1.43E-02	3.45E-14
rs114165349	G		C		2.35E-02	-5.86E-01	4.37E-02	6.07E-41
rs569356	A		G		1.41E-01	1.49E-01	1.89E-02	3.13E-15
rs61780434	G		A		2.20E-01	-1.08E-01	1.59E-02	1.15E-11
rs951740	G		A		6.23E-01	-1.42E-01	1.36E-02	2.33E-25
rs3762311	T		G		1.17E-01	1.52E-01	2.06E-02	1.68E-13
rs9728077	C		A		6.68E-01	-1.02E-01	1.41E-02	4.31E-13
rs1430753	A		G		8.12E-01	-1.01E-01	1.69E-02	2.11E-09
rs78511209	C		G		9.49E-02	1.78E-01	2.26E-02	3.08E-15
rs469773	C		T		1.98E-01	3.87E-01	1.66E-02	1.80E-120
rs6603992	A		G		6.42E-01	-8.96E-02	1.37E-02	6.22E-11
rs599839	G		A		7.72E-01	-1.65E-01	1.57E-02	6.06E-26
rs571380164	T		C		5.02E-02	1.71E-01	3.08E-02	2.98E-08
rs1127313	G		A		4.90E-01	-1.28E-01	1.32E-02	2.57E-22
rs12749024	C		T		1.52E-01	4.06E-01	1.87E-02	5.50E-105
rs11577063	T		G		7.75E-01	-1.03E-01	1.58E-02	5.45E-11
rs7545345	T		C		1.31E-01	1.37E-01	1.95E-02	2.30E-12
rs2724373	C		T		3.57E-01	-1.03E-01	1.37E-02	8.13E-14
rs55843942	C		G		1.28E-01	-1.24E-01	1.97E-02	3.12E-10
rs116509476	T		C		2.65E-02	2.80E-01	4.09E-02	7.46E-12
rs17597773	C		G		2.45E-01	-2.39E-01	1.53E-02	6.26E-55
rs514230	A		T		5.18E-01	1.18E-01	1.32E-02	4.47E-19
rs2802951	A		G		7.17E-01	-8.93E-02	1.46E-02	1.07E-09
rs7517340	T		C		8.18E-01	1.79E-01	1.71E-02	1.97E-25
rs1562617	G		A		2.23E-01	-1.05E-01	1.59E-02	3.92E-11
rs10171272	C		A		3.05E-01	1.93E-01	1.44E-02	4.62E-41
rs35628191	C		T		4.06E-01	7.79E-02	1.34E-02	6.70E-09
rs1260326	T		C		6.07E-01	3.44E-01	1.35E-02	5.06E-144
rs2568464	T		C		4.27E-01	7.83E-02	1.33E-02	4.56E-09
rs10490051	T		C		3.07E-01	8.87E-02	1.44E-02	6.30E-10
rs62136965	T		C		4.66E-02	2.18E-01	3.15E-02	5.15E-12
rs6754136	T		C		2.43E-01	-1.01E-01	1.54E-02	6.58E-11
rs11545482	C		T		2.09E-02	-4.90E-01	4.60E-02	1.92E-26
rs4852306	C		T		6.11E-01	8.50E-02	1.35E-02	3.31E-10
rs77704058	C		G		5.50E-02	1.66E-01	2.89E-02	9.77E-09
rs4849187	T		C		2.73E-01	9.55E-02	1.49E-02	1.49E-10
rs17050272	G		A		4.10E-01	-1.17E-01	1.34E-02	2.61E-18
rs1045832	A		G		4.09E-01	-7.55E-02	1.34E-02	1.74E-08
rs1806701	C		T		2.81E-01	8.06E-02	1.48E-02	4.94E-08
rs17289223	A		T		3.88E-01	7.97E-02	1.35E-02	3.75E-09
rs17400325	T		C		4.10E-02	2.95E-01	3.32E-02	7.29E-19
rs57267144	G		C		2.65E-01	-1.21E-01	1.50E-02	9.32E-16
rs13418037	C		T		1.87E-01	1.02E-01	1.71E-02	2.14E-09
rs62182127	G		A		5.63E-01	1.02E-01	1.33E-02	1.35E-14
rs10498238	C		T		7.57E-02	1.74E-01	2.49E-02	2.37E-12
rs1465529	T		C		3.00E-01	-1.06E-01	1.44E-02	2.14E-13
rs9288726	T		C		6.58E-01	9.14E-02	1.39E-02	4.85E-11
rs346076	C		T		6.63E-01	7.93E-02	1.40E-02	1.33E-08
rs2607748	T		C		4.37E-01	8.70E-02	1.33E-02	5.74E-11
rs7374774	T		G		5.89E-01	-7.85E-02	1.34E-02	4.46E-09
rs4678732	G		A		3.74E-01	8.70E-02	1.36E-02	1.64E-10
rs11928797	C		A		1.17E-01	1.53E-01	2.05E-02	7.72E-14

rs6795296	T	C	1.31E-01	1.08E-01	1.95E-02	2.94E-08
rs148710154	T	C	3.79E-01	-1.04E-01	1.36E-02	1.89E-14
rs112893170	T	C	1.95E-01	-1.04E-01	1.67E-02	4.72E-10
rs4858992	T	C	8.44E-01	1.50E-01	1.81E-02	1.63E-16
rs9842522	G	A	3.91E-01	-1.01E-01	1.35E-02	6.71E-14
rs62280667	T	C	3.39E-01	1.58E-01	1.39E-02	7.40E-30
rs115396404	T	C	1.80E-01	-1.25E-01	1.73E-02	4.83E-13
rs62265578	T	C	2.51E-01	9.02E-02	1.52E-02	3.25E-09
rs687339	C	T	7.72E-01	2.15E-01	1.57E-02	1.92E-42
rs1720827	G	A	7.72E-01	8.65E-02	1.57E-02	3.93E-08
rs17487338	G	A	1.70E-01	-1.61E-01	1.77E-02	8.81E-20
rs7632381	T	C	4.47E-01	-1.71E-01	1.32E-02	2.34E-38
rs13073970	G	T	2.08E-01	1.27E-01	1.62E-02	5.43E-15
rs572169	C	T	3.18E-01	3.11E-01	1.41E-02	2.52E-107
rs232000	A	G	6.83E-01	-7.98E-02	1.43E-02	2.65E-08
rs2268829	G	A	7.86E-01	-1.03E-01	1.61E-02	1.60E-10
rs9879333	G	A	2.46E-01	-1.04E-01	1.53E-02	1.06E-11
rs59950280	G	A	3.31E-01	-9.16E-02	1.42E-02	1.09E-10
rs4234797	G	A	6.15E-01	2.04E-01	1.35E-02	1.90E-51
rs17610727	A	G	2.82E-01	8.25E-02	1.47E-02	2.07E-08
rs1055582	C	T	5.05E-01	-1.40E-01	1.32E-02	2.18E-26
rs7662792	A	T	6.62E-01	-1.90E-01	1.39E-02	3.11E-42
rs3775288	A	G	1.26E-01	-1.65E-01	1.99E-02	9.81E-17
rs34707604	T	C	2.61E-01	-2.30E-01	1.58E-02	8.44E-48
rs1349852	A	C	4.75E-01	-1.38E-01	1.33E-02	3.86E-25
rs55679357	C	T	1.80E-01	1.46E-01	1.73E-02	2.87E-17
rs2204920	A	G	4.18E-01	-8.64E-02	1.34E-02	1.04E-10
rs6822348	A	T	6.98E-01	1.98E-01	1.44E-02	2.46E-43
rs17429745	G	T	3.09E-01	-1.37E-01	1.43E-02	1.31E-21
rs3804174	C	T	3.14E-01	1.11E-01	1.44E-02	9.37E-15
rs7658049	T	G	7.76E-01	9.29E-02	1.65E-02	1.78E-08
rs10027182	G	A	7.44E-01	1.23E-01	1.51E-02	3.60E-16
rs62334147	T	C	1.83E-01	1.03E-01	1.71E-02	1.74E-09
rs4466086	T	A	5.78E-01	7.74E-02	1.34E-02	8.16E-09
rs9292578	C	A	4.19E-02	-2.13E-01	3.30E-02	1.05E-10
rs55681913	T	C	1.07E-01	3.34E-01	2.16E-02	2.71E-54
rs2548379	G	A	6.75E-01	1.23E-01	1.41E-02	2.83E-18
rs7719168	A	C	1.13E-01	1.66E-01	2.09E-02	1.99E-15
rs7702956	C	T	3.28E-01	-1.97E-01	1.41E-02	1.36E-44
rs80170948	T	G	4.31E-02	2.20E-01	3.39E-02	8.18E-11
rs2227819	C	T	1.14E-01	1.20E-01	2.09E-02	8.21E-09
rs586199	G	A	5.16E-01	7.63E-02	1.32E-02	7.12E-09
rs13178887	T	C	3.87E-01	-1.25E-01	1.35E-02	2.76E-20
rs7730092	G	T	1.91E-01	1.10E-01	1.68E-02	5.70E-11
rs26822	A	G	3.27E-01	8.70E-02	1.41E-02	6.25E-10
rs12514947	G	T	1.66E-01	-2.26E-01	1.77E-02	3.44E-37
rs667668	G	A	4.33E-01	-1.10E-01	1.33E-02	1.65E-16
rs12659034	C	T	2.01E-01	2.11E-01	1.64E-02	9.83E-38
rs11740242	T	C	4.22E-01	-9.23E-02	1.40E-02	4.10E-11
rs6888349	C	A	2.58E-01	-8.42E-02	1.51E-02	2.28E-08
rs31196	C	A	5.72E-01	-7.28E-02	1.33E-02	4.52E-08
rs4282339	G	A	2.07E-01	-2.89E-01	1.62E-02	4.72E-71
rs1351893	T	A	7.06E-02	1.57E-01	2.58E-02	1.28E-09
rs17714046	T	C	4.66E-02	2.19E-01	3.12E-02	2.09E-12
rs112859600	G	A	4.47E-02	-2.02E-01	3.19E-02	2.68E-10
rs12524950	A	G	2.94E-01	8.85E-02	1.45E-02	9.34E-10
rs7756117	G	A	6.95E-01	-1.93E-01	1.43E-02	1.56E-41
rs9264669	A	T	5.73E-01	1.42E-01	1.35E-02	7.62E-26

rs9272558	A	G	2.57E-01	-1.49E-01	1.51E-02	4.45E-23
rs928976	C	T	3.14E-01	7.86E-02	1.42E-02	3.09E-08
rs259720	G	T	5.95E-01	8.57E-02	1.35E-02	2.03E-10
rs998584	C	A	4.82E-01	1.07E-01	1.32E-02	5.56E-16
rs6924225	G	A	1.64E-01	-1.00E-01	1.78E-02	2.05E-08
rs515304	T	C	5.71E-01	7.57E-02	1.38E-02	3.68E-08
rs6940544	G	A	4.88E-01	-1.54E-01	1.33E-02	2.10E-31
rs539687	A	T	3.30E-01	-9.61E-02	1.40E-02	6.95E-12
rs2153960	G	A	7.12E-01	2.69E-01	1.45E-02	1.81E-76
rs9401881	C	T	4.54E-01	3.65E-01	1.32E-02	8.79E-168
rs6913063	C	G	6.84E-01	-8.35E-02	1.42E-02	4.04E-09
rs1112847	C	T	5.05E-01	-8.95E-02	1.32E-02	1.27E-11
rs1039086	T	A	5.59E-01	9.35E-02	1.33E-02	1.89E-12
rs3866462	T	A	3.42E-01	1.41E-01	1.40E-02	9.33E-24
rs998075	A	G	4.65E-01	-1.18E-01	1.32E-02	5.73E-19
rs520829	T	G	4.75E-01	-1.87E-01	1.32E-02	9.97E-46
rs9355548	G	A	6.24E-01	-8.12E-02	1.37E-02	2.82E-09
rs4709995	C	T	3.80E-01	2.23E-01	1.36E-02	1.68E-60
rs10950674	A	T	1.70E-01	1.59E-01	1.75E-02	1.10E-19
rs377694807	C	T	5.38E-01	9.38E-02	1.36E-02	4.65E-12
rs1182174	G	A	2.97E-01	1.15E-01	1.44E-02	2.02E-15
rs34495733	G	A	1.41E-01	-2.57E-01	1.90E-02	8.98E-42
rs112293610	A	C	2.92E-01	-1.33E-01	1.45E-02	4.56E-20
rs36115000	G	T	2.62E-01	-1.10E-01	1.50E-02	2.08E-13
rs62467361	C	T	5.30E-02	1.82E-01	2.96E-02	7.93E-10
rs7785231	A	G	6.27E-01	-7.96E-02	1.36E-02	5.27E-09
rs6670	T	A	2.18E-01	-1.03E-01	1.68E-02	9.97E-10
rs2965068	T	C	4.56E-01	-2.17E-01	1.33E-02	5.03E-60
rs856537	C	T	5.49E-01	4.96E-01	1.32E-02	1.00E-200
rs56052701	C	T	4.61E-01	-1.14E-01	1.33E-02	1.07E-17
rs6974707	G	A	2.25E-01	1.01E-01	1.58E-02	1.78E-10
rs13232120	A	T	1.24E-01	1.87E-01	2.00E-02	7.65E-21
rs411717	T	C	5.67E-01	-7.81E-02	1.33E-02	4.63E-09
rs35887778	T	C	2.61E-01	1.02E-01	1.52E-02	1.71E-11
rs7783012	G	A	5.93E-01	-1.00E-01	1.35E-02	1.08E-13
rs1358394	A	G	5.46E-01	7.51E-02	1.33E-02	1.57E-08
rs125124	C	G	3.05E-01	3.21E-01	1.44E-02	1.15E-110
rs7457999	T	C	2.43E-01	9.22E-02	1.54E-02	2.21E-09
rs273956	A	G	5.84E-01	-1.08E-01	1.34E-02	6.98E-16
rs68115887	T	C	3.58E-01	8.09E-02	1.38E-02	4.45E-09
rs114949263	T	C	1.12E-01	-1.40E-01	2.10E-02	2.59E-11
rs10246481	A	G	3.86E-01	7.74E-02	1.36E-02	1.17E-08
rs9657541	C	T	2.05E-01	-1.04E-01	1.64E-02	2.39E-10
rs142414167	G	C	9.62E-03	-4.14E-01	7.19E-02	8.54E-09
rs1495741	G	A	7.79E-01	-1.42E-01	1.59E-02	2.62E-19
rs9297994	G	A	6.65E-01	-1.38E-01	1.39E-02	5.46E-23
rs6471835	A	C	6.60E-01	-7.63E-02	1.39E-02	4.16E-08
rs1431015	T	C	5.98E-01	1.02E-01	1.35E-02	4.12E-14
rs445036	T	C	2.88E-01	-1.09E-01	1.45E-02	7.53E-14
rs1786342	T	C	3.97E-01	-9.18E-02	1.35E-02	9.91E-12
rs56287691	T	A	2.18E-01	-8.78E-02	1.60E-02	3.87E-08
rs2737205	T	C	5.61E-01	-1.31E-01	1.33E-02	7.31E-23
rs62518386	C	G	4.46E-01	-1.15E-01	1.32E-02	4.33E-18
rs7012213	A	T	3.12E-01	1.03E-01	1.42E-02	5.12E-13
rs456179	C	T	8.80E-01	2.43E-01	2.03E-02	5.52E-33
rs117137578	G	A	1.92E-02	-2.72E-01	4.82E-02	1.63E-08
rs41303235	C	T	4.81E-02	3.11E-01	3.21E-02	3.66E-22
rs10757291	G	A	5.32E-01	-1.07E-01	1.33E-02	8.34E-16

rs62560860	G	A	1.93E-01	1.17E-01	1.67E-02	2.67E-12
rs10869022	T	C	7.98E-01	1.12E-01	1.66E-02	1.74E-11
rs11788077	A	G	3.26E-01	-8.25E-02	1.40E-02	4.12E-09
rs72745405	C	T	1.76E-01	1.64E-01	1.74E-02	3.05E-21
rs75660441	A	G	6.49E-02	-2.23E-01	2.68E-02	1.01E-16
rs7034716	C	T	2.99E-01	-8.56E-02	1.44E-02	2.91E-09
rs78509281	C	T	5.12E-02	2.89E-01	3.04E-02	2.13E-21
rs3891689	T	C	2.37E-01	8.99E-02	1.55E-02	7.29E-09
rs13301073	G	A	3.68E-01	-1.19E-01	1.37E-02	2.34E-18
rs1832007	A	G	1.55E-01	3.03E-01	1.82E-02	4.93E-62
rs2801482	A	G	2.43E-02	2.51E-01	4.32E-02	6.65E-09
rs10430801	G	A	2.97E-01	8.36E-02	1.44E-02	6.64E-09
rs10828250	C	G	3.09E-01	-1.10E-01	1.43E-02	1.37E-14
rs7899156	C	A	6.47E-01	8.60E-02	1.38E-02	4.48E-10
rs74218214	C	T	2.42E-01	9.14E-02	1.57E-02	5.93E-09
rs10821723	G	A	4.24E-01	8.93E-02	1.34E-02	2.30E-11
rs11001399	A	C	5.59E-01	-8.72E-02	1.33E-02	5.85E-11
rs1782652	T	A	3.80E-01	8.01E-02	1.37E-02	5.46E-09
rs12219199	C	T	4.69E-02	2.22E-01	3.13E-02	1.26E-12
rs2274224	G	C	4.32E-01	-1.24E-01	1.33E-02	1.29E-20
rs11190743	A	G	5.50E-01	1.45E-01	1.33E-02	5.06E-28
rs12244388	G	A	3.36E-01	-8.62E-02	1.39E-02	6.35E-10
rs3858325	C	T	4.71E-01	1.03E-01	1.32E-02	6.76E-15
rs11603111	C	A	5.45E-01	-8.80E-02	1.32E-02	2.93E-11
rs3858525	C	G	5.53E-01	8.77E-02	1.33E-02	4.06E-11
rs3842763	G	T	2.38E-01	-4.73E-01	1.57E-02	1.10E-199
rs1037169	T	C	6.88E-01	1.06E-01	1.43E-02	9.17E-14
rs11024614	C	T	6.29E-01	-1.17E-01	1.37E-02	1.08E-17
rs7122769	A	T	4.12E-01	-8.29E-02	1.36E-02	9.66E-10
rs11031051	A	C	3.02E-01	-9.34E-02	1.45E-02	1.07E-10
rs3136512	C	T	5.26E-01	-7.74E-02	1.32E-02	5.05E-09
rs7131605	T	A	2.63E-01	2.31E-01	1.51E-02	1.71E-52
rs174554	A	G	3.45E-01	-1.18E-01	1.39E-02	1.47E-17
rs138668741	C	T	4.53E-02	2.04E-01	3.33E-02	8.37E-10
rs35826789	T	A	8.91E-02	1.76E-01	2.33E-02	5.07E-14
rs2512522	G	C	1.63E-01	-1.22E-01	1.78E-02	6.65E-12
rs76265107	T	A	5.51E-01	7.68E-02	1.37E-02	2.03E-08
rs607146	C	T	7.21E-01	-8.78E-02	1.47E-02	2.46E-09
rs12420205	C	T	6.80E-01	-9.35E-02	1.42E-02	4.33E-11
rs10892564	A	G	3.81E-01	9.14E-02	1.35E-02	1.49E-11
rs10892923	G	A	3.68E-01	-9.36E-02	1.38E-02	1.02E-11
rs7952602	G	C	1.35E-01	-1.14E-01	1.93E-02	3.54E-09
rs11064536	T	C	1.71E-01	-9.74E-02	1.76E-02	2.95E-08
rs2856321	G	A	6.39E-01	-1.37E-01	1.37E-02	1.79E-23
rs9738365	C	A	2.67E-01	3.10E-01	1.49E-02	1.29E-95
rs1150974	C	A	1.09E-01	2.17E-01	2.12E-02	1.09E-24
rs1260003	T	C	3.63E-01	1.06E-01	1.38E-02	1.82E-14
rs6582485	A	G	5.19E-01	-9.08E-02	1.32E-02	6.01E-12
rs10876864	G	A	5.73E-01	7.58E-02	1.33E-02	1.23E-08
rs78607331	C	T	4.52E-02	-1.98E-01	3.17E-02	3.93E-10
rs4547160	T	G	6.57E-01	-9.27E-02	1.40E-02	3.24E-11
rs1351394	T	C	5.09E-01	1.19E-01	1.32E-02	1.92E-19
rs10858887	C	T	7.03E-01	-8.10E-02	1.45E-02	2.42E-08
rs2171126	C	T	5.07E-01	9.19E-02	1.32E-02	3.63E-12
rs73373089	G	C	1.36E-01	1.47E-01	1.94E-02	2.93E-14
rs978458	T	C	7.40E-01	-4.25E-01	1.50E-02	2.09E-176
rs79218426	C	T	3.93E-02	4.10E-01	3.39E-02	9.65E-34
rs58899348	A	C	2.08E-02	2.81E-01	4.64E-02	1.52E-09

rs2460488	G	A	1.72E-01	-1.24E-01	1.75E-02	1.43E-12
rs1800574	C	T	2.91E-02	8.01E-01	3.91E-02	3.35E-93
rs61953394	T	C	9.13E-02	-1.37E-01	2.29E-02	2.42E-09
rs2762981	G	A	7.72E-01	1.07E-01	1.57E-02	9.93E-12
rs76750172	C	T	2.40E-02	3.29E-01	4.31E-02	2.27E-14
rs9532512	G	A	1.85E-01	2.12E-01	1.70E-02	8.52E-36
rs1170187	G	A	8.16E-01	1.12E-01	1.71E-02	5.03E-11
rs150869224	C	T	3.11E-02	2.09E-01	3.82E-02	4.24E-08
rs1535793	G	A	7.35E-01	1.22E-01	1.49E-02	2.16E-16
rs61957204	G	A	7.92E-02	1.60E-01	2.44E-02	5.53E-11
rs9583151	T	C	4.94E-01	8.44E-02	1.32E-02	1.72E-10
rs7323205	T	C	6.04E-01	7.93E-02	1.35E-02	4.68E-09
rs6602912	T	G	2.83E-01	1.09E-01	1.46E-02	9.50E-14
rs11620783	C	T	4.31E-01	-9.61E-02	1.34E-02	7.13E-13
rs28396553	C	T	5.87E-01	7.70E-02	1.35E-02	1.01E-08
rs33912345	C	A	6.12E-01	-1.33E-01	1.35E-02	6.86E-23
rs36215895	C	T	9.48E-03	-4.36E-01	6.80E-02	1.41E-10
rs4902712	G	A	6.10E-01	-7.76E-02	1.35E-02	8.83E-09
rs13379043	T	C	2.79E-01	-1.28E-01	1.50E-02	9.59E-18
rs175043	G	A	4.66E-01	-9.27E-02	1.32E-02	2.46E-12
rs10142298	C	T	6.88E-01	1.13E-01	1.42E-02	1.92E-15
rs876375	A	G	5.22E-01	-1.28E-01	1.32E-02	4.63E-22
rs1659563	A	G	5.29E-01	-8.65E-02	1.33E-02	7.62E-11
rs150844304	A	C	2.45E-02	-8.05E-01	4.26E-02	1.50E-79
rs12908960	G	A	4.61E-01	-9.58E-02	1.33E-02	5.21E-13
rs7178424	C	T	4.50E-01	-2.07E-01	1.32E-02	5.60E-55
rs117120687	A	T	4.64E-02	-2.60E-01	3.14E-02	1.34E-16
rs5742915	T	C	4.62E-01	1.35E-01	1.32E-02	1.23E-24
rs2028388	T	C	3.87E-01	8.11E-02	1.36E-02	2.25E-09
rs1994147	T	A	2.96E-01	1.31E-01	1.49E-02	1.62E-18
rs8034564	G	A	5.83E-01	1.28E-01	1.34E-02	1.23E-21
rs10438491	T	C	7.02E-01	1.03E-01	1.45E-02	1.41E-12
rs4988483	C	A	5.73E-02	-8.76E-01	2.90E-02	3.44E-200
rs4786350	C	G	4.37E-02	-2.16E-01	3.22E-02	1.86E-11
rs576550218	C	T	1.29E-02	-7.18E-01	5.90E-02	4.69E-34
rs55706729	A	G	7.21E-02	4.66E-01	2.55E-02	1.03E-74
rs74947370	A	T	9.32E-02	-2.12E-01	2.29E-02	1.68E-20
rs77510867	C	T	1.84E-01	-1.56E-01	1.71E-02	1.03E-19
rs13333965	C	T	2.55E-01	8.60E-02	1.52E-02	1.56E-08
rs12935465	T	C	4.96E-01	-9.15E-02	1.32E-02	4.05E-12
rs12445535	C	T	4.83E-01	-7.85E-02	1.32E-02	3.03E-09
rs56226746	G	A	4.26E-01	1.02E-01	1.38E-02	1.66E-13
rs3809627	C	A	4.01E-01	-7.48E-02	1.34E-02	2.68E-08
rs35713203	G	C	3.79E-01	-1.82E-01	1.36E-02	7.13E-41
rs116971887	G	T	4.53E-02	-1.85E-01	3.21E-02	8.07E-09
rs8055075	C	G	5.81E-01	-9.18E-02	1.34E-02	6.26E-12
rs112941090	C	G	1.67E-01	-1.15E-01	1.77E-02	8.96E-11
rs17299478	C	T	1.69E-01	-1.65E-01	1.76E-02	1.03E-20
rs8059803	G	A	7.00E-01	1.70E-01	1.44E-02	5.34E-32
rs4888163	G	A	3.34E-01	-1.24E-01	1.40E-02	1.29E-18
rs4782568	C	G	4.53E-01	-1.45E-01	1.33E-02	1.74E-27
rs4790814	G	A	5.19E-01	-8.87E-02	1.32E-02	1.68E-11
rs12946467	C	G	3.99E-01	-7.96E-02	1.34E-02	3.19E-09
rs727428	T	C	5.57E-01	9.84E-02	1.33E-02	1.16E-13
rs12952818	G	A	6.17E-01	-1.22E-01	1.37E-02	4.05E-19
rs3826331	T	C	6.02E-01	1.29E-01	1.35E-02	9.36E-22
rs117292219	G	T	9.16E-02	-1.51E-01	2.33E-02	8.77E-11
rs62078793	G	A	1.24E-01	1.14E-01	2.01E-02	1.40E-08

rs9896243	C	G	2.16E-01	1.09E-01	1.60E-02	1.03E-11
rs142039417	A	T	2.45E-02	6.73E-01	4.37E-02	1.43E-53
rs11568828	T	C	1.17E-01	-1.77E-01	2.20E-02	9.12E-16
rs144830625	C	T	2.54E-02	3.17E-01	4.59E-02	5.17E-12
rs117524772	C	A	2.63E-02	3.47E-01	4.11E-02	3.14E-17
rs4789227	C	T	6.53E-01	8.59E-02	1.38E-02	5.23E-10
rs12051698	C	G	3.53E-01	-8.30E-02	1.39E-02	2.35E-09
rs2846579	C	T	1.44E-01	1.05E-01	1.91E-02	4.43E-08
rs4567812	G	A	3.03E-01	1.09E-01	1.44E-02	2.91E-14
rs4468717	C	T	7.77E-02	-1.49E-01	2.46E-02	1.33E-09
rs34233878	T	C	9.81E-02	1.23E-01	2.22E-02	2.55E-08
rs11664259	C	T	4.06E-01	-8.50E-02	1.35E-02	2.78E-10
rs585187	G	T	4.92E-01	7.59E-02	1.32E-02	8.38E-09
rs12454712	T	C	3.76E-01	-1.02E-01	1.36E-02	6.34E-14
rs74327681	C	T	4.21E-02	-2.97E-01	3.28E-02	1.36E-19
rs1942583	T	C	5.26E-01	7.88E-02	1.32E-02	2.14E-09
rs12978130	C	T	7.18E-01	8.48E-02	1.47E-02	8.73E-09
rs62114286	G	T	3.15E-01	-1.94E-01	1.42E-02	1.31E-42
rs7256994	G	A	3.35E-01	-8.82E-02	1.40E-02	3.20E-10
rs8105174	C	T	1.88E-01	-2.59E-01	1.69E-02	3.68E-53
rs79430416	A	T	5.00E-01	-1.40E-01	1.33E-02	6.53E-26
rs3745683	G	A	7.47E-02	1.50E-01	2.51E-02	2.21E-09
rs6510177	T	C	8.05E-01	-1.21E-01	1.69E-02	8.01E-13
rs74401830	G	A	3.31E-01	-8.24E-02	1.40E-02	4.29E-09
rs7254601	A	G	2.43E-01	8.78E-02	1.54E-02	1.26E-08
rs296361	G	A	1.65E-01	1.33E-01	1.78E-02	6.60E-14
rs2287921	T	C	5.39E-01	-1.58E-01	1.32E-02	1.16E-32
rs11672485	T	C	4.90E-01	-7.88E-02	1.32E-02	2.37E-09
rs12975366	T	C	3.96E-01	-1.05E-01	1.34E-02	7.13E-15
rs2208030	T	C	5.05E-01	-9.86E-02	1.32E-02	7.30E-14
rs73125628	C	T	2.78E-01	-2.68E-01	1.47E-02	4.44E-74
rs6132291	C	T	1.96E-01	1.03E-01	1.67E-02	6.51E-10
rs6082354	A	C	6.67E-01	-2.33E-01	1.40E-02	1.16E-62
rs6088579	A	G	8.18E-01	1.48E-01	1.71E-02	4.64E-18
rs2207132	G	A	3.29E-02	-2.51E-01	3.69E-02	1.04E-11
rs10485614	A	C	7.73E-02	-2.20E-01	2.47E-02	4.68E-19
rs2104476	G	A	7.33E-01	-1.13E-01	1.49E-02	3.08E-14
rs76364377	G	A	7.48E-02	1.64E-01	2.50E-02	4.85E-11
rs8126001	C	T	4.90E-01	1.42E-01	1.32E-02	5.52E-27
rs62229260	G	A	6.04E-01	2.06E-01	1.35E-02	7.07E-53
rs9978775	A	G	5.69E-01	1.04E-01	1.33E-02	5.66E-15
rs4822452	C	T	6.11E-01	-1.02E-01	1.35E-02	5.67E-14
rs2294239	A	G	4.27E-01	-8.11E-02	1.34E-02	1.34E-09
rs5755943	G	C	1.36E-01	1.49E-01	1.92E-02	1.08E-14
rs6519133	T	C	3.94E-01	-1.58E-01	1.35E-02	1.34E-31
rs9611567	A	G	2.44E-01	-1.48E-01	1.54E-02	6.43E-22
rs4823324	T	C	4.17E-01	-7.93E-02	1.35E-02	4.27E-09

Supplementary Table S18: Genome-wide significant independent SNPs for testosterone

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs1989147	C		T		1.91E-01	-2.58E-02	4.03E-03	1.60E-10
rs7521867	T		C		7.87E-01	-2.16E-02	3.83E-03	1.70E-08
rs4453027	G		T		4.24E-01	-1.87E-02	3.21E-03	5.60E-09
rs1416685	G		C		4.10E-01	-1.82E-02	3.20E-03	1.40E-08
rs505237	A		G		6.16E-01	1.81E-02	3.23E-03	2.20E-08
rs3118386	T		C		3.99E-01	1.81E-02	3.21E-03	1.70E-08
rs6684361	T		C		3.12E-01	6.12E-02	3.41E-03	5.60E-72
rs12143068	A		G		2.53E-01	-2.46E-02	3.61E-03	8.70E-12
rs12091273	C		T		2.05E-01	-2.16E-02	3.89E-03	2.80E-08
rs2205698	A		G		6.76E-01	2.14E-02	3.35E-03	1.70E-10
rs2250477	G		C		2.48E-01	5.00E-02	3.64E-03	5.50E-43
rs17558745	C		T		3.09E-01	-2.01E-02	3.42E-03	3.90E-09
rs13022088	A		G		2.76E-01	2.79E-02	3.53E-03	2.80E-15
rs10184382	C		T		4.46E-01	2.02E-02	3.18E-03	2.00E-10
rs11892043	A		G		2.71E-01	-2.46E-02	3.53E-03	3.50E-12
rs1260326	T		C		6.08E-01	2.80E-02	3.22E-03	2.80E-18
rs11676745	G		C		6.61E-01	2.10E-02	3.33E-03	3.00E-10
rs7575635	C		T		1.94E-01	-3.24E-02	3.98E-03	3.90E-16
rs2293275	T		C		5.77E-01	-1.90E-02	3.20E-03	3.10E-09
rs11683263	T		C		5.12E-01	-1.78E-02	3.16E-03	1.80E-08
rs590097	T		G		6.49E-01	4.75E-02	3.30E-03	5.70E-47
rs11683361	C		G		8.07E-01	2.65E-02	3.99E-03	3.20E-11
rs1453373	G		A		6.45E-01	-1.95E-02	3.28E-03	2.50E-09
rs72916919	T		G		4.97E-01	1.75E-02	3.17E-03	3.50E-08
rs7618363	C		G		1.57E-01	-3.05E-02	4.32E-03	1.60E-12
rs62231822	C		T		9.66E-02	-4.49E-02	5.34E-03	4.60E-17
rs35169377	A		C		3.24E-01	-1.87E-02	3.36E-03	2.80E-08
rs13091026	C		T		2.52E-02	5.57E-02	1.00E-02	2.60E-08
rs6788984	A		G		1.44E-01	-4.08E-02	4.51E-03	1.60E-19
rs7633673	G		A		4.05E-01	-2.13E-02	3.20E-03	2.90E-11
rs1918975	C		T		5.96E-01	-2.08E-02	3.21E-03	9.10E-11
rs2342307	A		G		6.15E-01	-2.85E-02	3.26E-03	2.30E-18
rs77822621	C		T		4.24E-02	4.47E-02	7.84E-03	1.20E-08
rs28820590	C		T		6.51E-01	2.11E-02	3.86E-03	5.00E-08
rs11249524	T		C		4.54E-01	-2.55E-02	3.15E-03	5.90E-16
rs974801	A		G		3.67E-01	2.33E-02	3.26E-03	8.00E-13
rs4245930	G		A		6.31E-01	-2.34E-02	3.25E-03	5.90E-13
rs58282071	A		G		4.73E-02	-5.06E-02	7.46E-03	1.10E-11
rs9686661	C		T		1.99E-01	-2.27E-02	3.93E-03	7.50E-09
rs1119208	C		T		3.49E-01	-2.60E-02	3.30E-03	3.60E-15
rs784420	A		G		2.92E-01	2.76E-02	3.45E-03	1.30E-15
rs12658172	G		C		1.57E-01	-4.16E-02	4.39E-03	2.20E-21
rs17677724	C		T		1.64E-01	-2.52E-02	4.27E-03	3.60E-09
rs246660	C		T		2.28E-01	2.23E-02	3.76E-03	3.00E-09
rs13153019	T		C		2.50E-01	2.29E-02	3.66E-03	3.50E-10
rs78816356	G		A		9.91E-02	3.34E-02	5.30E-03	3.10E-10
rs2261033	A		G		4.33E-01	2.67E-02	3.16E-03	3.20E-17
rs9273138	G		T		1.89E-01	-2.52E-02	4.40E-03	1.10E-08
rs1214759	A		G		6.79E-01	3.25E-02	3.37E-03	5.40E-22
rs36182456	G		A		7.82E-01	5.19E-02	3.81E-03	2.70E-42
rs17649719	G		C		3.84E-01	-2.08E-02	3.23E-03	1.30E-10
rs9399469	T		A		6.24E-01	2.56E-02	3.26E-03	4.00E-15
rs928008	A		G		5.02E-01	1.76E-02	3.16E-03	2.60E-08
rs2344744	T		G		4.18E-01	1.76E-02	3.18E-03	3.20E-08
rs34060476	A		G		1.35E-01	4.39E-02	4.59E-03	1.20E-21
rs76021834	A		G		2.92E-01	1.96E-02	3.47E-03	1.60E-08

rs574637649	C	T	3.35E-02	-3.05E-01	8.80E-03	1.00E-200
rs143764008	G	A	4.59E-01	-2.45E-02	3.79E-03	1.00E-10
rs9642092	C	T	7.94E-01	4.32E-02	3.89E-03	1.10E-28
rs55911644	T	A	3.60E-01	-2.26E-02	3.27E-03	5.70E-12
rs537551388	A	T	2.53E-01	2.31E-02	3.64E-03	2.20E-10
rs1788174	G	C	3.89E-01	-1.88E-02	3.22E-03	5.70E-09
rs11774829	T	A	1.02E-01	4.66E-02	5.25E-03	7.40E-19
rs1134095	G	A	5.54E-01	-3.64E-02	3.16E-03	8.60E-31
rs12683780	A	C	3.30E-01	-2.75E-02	3.44E-03	1.30E-15
rs61237993	G	A	1.29E-01	3.66E-02	4.69E-03	5.80E-15
rs10981138	G	A	4.32E-01	1.75E-02	3.18E-03	3.60E-08
rs10817260	C	T	1.89E-01	-3.77E-02	4.09E-03	3.60E-20
rs2801885	A	G	2.70E-01	-2.69E-02	3.57E-03	4.90E-14
rs36032941	C	A	2.92E-01	-5.55E-02	3.49E-03	5.10E-57
rs1171617	G	T	7.70E-01	4.13E-02	3.74E-03	2.40E-28
rs10822145	C	T	4.78E-01	2.36E-02	3.15E-03	5.80E-14
rs10882525	A	T	3.37E-01	-1.93E-02	3.32E-03	5.70E-09
rs9527	C	T	2.40E-01	-3.31E-02	3.68E-03	2.70E-19
rs11031005	T	C	1.44E-01	2.73E-02	4.50E-03	1.30E-09
rs79586456	G	A	6.71E-02	7.36E-02	6.31E-03	1.80E-31
rs7111278	G	A	1.81E-01	-2.37E-02	4.07E-03	6.30E-09
rs312023	G	A	5.26E-01	-2.39E-02	3.16E-03	4.60E-14
rs371862	C	T	3.07E-01	-2.53E-02	3.41E-03	1.20E-13
rs111903103	C	T	4.22E-02	-4.44E-02	7.93E-03	2.20E-08
rs850294	C	T	1.14E-01	4.53E-02	4.98E-03	9.90E-20
rs4149056	T	C	1.53E-01	2.68E-02	4.37E-03	8.90E-10
rs3730074	C	A	1.52E-01	-2.47E-02	4.39E-03	1.70E-08
rs629042	G	C	6.13E-01	4.58E-02	3.24E-03	2.50E-45
rs17245822	A	C	3.74E-01	2.28E-02	3.28E-03	3.80E-12
rs9599996	T	G	4.01E-01	-1.80E-02	3.23E-03	2.70E-08
rs61964100	G	T	3.28E-02	-5.35E-02	8.88E-03	1.60E-09
rs7342537	A	G	1.86E-02	8.72E-02	1.17E-02	9.10E-14
rs1296527	T	C	1.43E-01	-2.52E-02	4.48E-03	1.80E-08
rs12436785	T	C	4.19E-01	2.91E-02	3.19E-03	7.20E-20
rs4924415	T	G	3.52E-01	4.83E-02	3.30E-03	1.10E-48
rs2304645	G	C	5.17E-01	2.28E-02	3.15E-03	4.20E-13
rs7175852	C	T	2.50E-01	-2.48E-02	3.63E-03	8.70E-12
rs4464040	C	T	1.48E-01	-4.06E-02	4.44E-03	5.90E-20
rs78865787	A	G	3.38E-02	-5.81E-02	8.69E-03	2.20E-11
rs62037565	C	A	2.32E-01	2.10E-02	3.73E-03	1.90E-08
rs67128646	A	C	2.53E-01	2.29E-02	3.62E-03	2.40E-10
rs58072681	T	C	7.25E-02	8.96E-02	6.10E-03	7.60E-49
rs8044524	G	A	6.01E-01	-2.40E-02	3.22E-03	8.70E-14
rs3933469	G	A	2.68E-01	2.56E-02	3.57E-03	7.30E-13
rs10852974	G	C	6.21E-01	-1.90E-02	3.25E-03	5.30E-09
rs34931250	C	T	5.90E-02	-4.41E-02	6.67E-03	3.90E-11
rs3786432	C	T	7.24E-01	2.05E-02	3.52E-03	6.00E-09
rs117327231	C	A	2.37E-02	1.45E-01	1.03E-02	1.60E-44
rs76505784	T	C	3.25E-02	-6.87E-02	9.02E-03	2.60E-14
rs8093038	T	C	1.00E-01	-4.42E-02	5.26E-03	4.40E-17
rs8111359	C	T	9.35E-02	-6.11E-02	5.47E-03	6.60E-29
rs4804181	C	A	7.77E-01	-3.43E-02	3.82E-03	2.70E-19
rs11673591	A	T	7.46E-01	-2.69E-02	3.62E-03	1.00E-13
rs58969991	G	A	6.98E-02	3.92E-02	6.19E-03	2.40E-10
rs1889236	C	T	2.30E-01	-3.26E-02	3.74E-03	3.30E-18
rs2142361	C	G	8.72E-01	-2.79E-02	4.73E-03	3.70E-09
rs6008259	G	A	1.78E-01	-2.89E-02	4.12E-03	2.30E-12

Supplementary Table S19: Genome-wide significant independent SNPs for sex hormone-binding globulin

SNP	effect	alle	other	alle	eaf	beta	se	pval
rs2486922	T	C			7.43E-01	-2.31E-02	3.37E-03	8.00E-12
rs10917373	C	T			7.45E-01	2.25E-02	3.40E-03	3.50E-11
rs114165349	G	C			2.33E-02	-1.47E-01	9.84E-03	4.10E-50
rs61779331	C	A			2.28E-01	-2.66E-02	3.52E-03	4.00E-14
rs12121301	T	A			4.36E-01	1.88E-02	2.98E-03	2.80E-10
rs17121841	A	G			7.48E-02	3.45E-02	5.61E-03	7.30E-10
rs469721	C	T			1.97E-01	-2.59E-02	3.73E-03	3.30E-12
rs1730864	C	T			6.59E-01	-4.25E-02	3.13E-03	6.10E-42
rs36209093	C	T			6.74E-01	-2.50E-02	3.50E-03	9.00E-13
rs72696009	T	C			4.98E-01	-1.67E-02	2.95E-03	1.40E-08
rs267733	A	G			1.61E-01	-2.73E-02	4.01E-03	9.90E-12
rs35504625	C	G			4.76E-01	3.00E-02	2.95E-03	3.10E-24
rs16864042	G	T			4.15E-01	-1.73E-02	2.99E-03	6.90E-09
rs10801178	G	C			6.90E-01	1.85E-02	3.19E-03	6.20E-09
rs10922143	G	A			6.64E-01	2.41E-02	3.13E-03	1.30E-14
rs9970073	G	A			3.61E-01	1.81E-02	3.08E-03	3.80E-09
rs1223791	G	A			8.37E-01	-2.89E-02	3.99E-03	4.30E-13
rs3001032	T	C			3.19E-01	2.09E-02	3.16E-03	3.60E-11
rs1260326	T	C			6.05E-01	6.38E-02	3.02E-03	3.10E-99
rs6736913	A	G			9.80E-01	-6.49E-02	1.04E-02	4.70E-10
rs1014291	G	T			4.27E-01	1.78E-02	2.99E-03	2.50E-09
rs2160348	T	C			7.35E-01	-5.61E-02	3.36E-03	1.60E-62
rs6758199	C	T			6.70E-02	-4.54E-02	5.95E-03	2.40E-14
rs12613243	T	C			6.34E-02	-3.56E-02	6.06E-03	4.40E-09
rs10184004	C	T			4.06E-01	3.30E-02	3.00E-03	4.00E-28
rs13427019	T	A			2.37E-01	-1.95E-02	3.48E-03	2.00E-08
rs1047891	C	A			3.15E-01	2.56E-02	3.17E-03	5.90E-16
rs13423088	T	A			3.17E-01	2.91E-02	3.17E-03	4.70E-20
rs4518111	A	C			5.66E-01	2.59E-02	3.00E-03	5.90E-18
rs6792725	A	G			6.91E-01	3.50E-02	3.30E-03	2.50E-26
rs13086465	C	T			3.20E-01	-2.78E-02	3.16E-03	1.60E-18
rs2289746	T	C			6.68E-01	1.76E-02	3.15E-03	2.10E-08
rs56298514	A	C			2.40E-01	-1.98E-02	3.46E-03	1.10E-08
rs687339	C	T			7.72E-01	-6.84E-02	3.53E-03	1.20E-83
rs62271373	T	A			6.01E-02	-4.56E-02	6.34E-03	6.40E-13
rs79287178	G	A			3.08E-02	-5.43E-02	8.97E-03	1.40E-09
rs13108218	A	G			6.15E-01	-4.68E-02	3.06E-03	7.50E-53
rs724577	A	C			7.38E-01	-2.00E-02	3.36E-03	2.80E-09
rs6531735	G	A			5.07E-01	-1.74E-02	2.96E-03	4.30E-09
rs2123885	T	G			2.35E-01	2.10E-02	3.53E-03	2.50E-09
rs1866975	C	T			3.87E-01	-2.23E-02	3.04E-03	2.10E-13
rs13150068	A	G			4.35E-01	-3.30E-02	2.98E-03	2.30E-28
rs3960788	T	C			4.13E-01	1.74E-02	3.00E-03	6.80E-09
rs7655064	T	C			1.25E-01	-2.54E-02	4.47E-03	1.40E-08
rs28925904	C	T			2.51E-02	-6.22E-02	9.43E-03	4.30E-11
rs2076947	T	C			7.97E-01	-2.58E-02	3.74E-03	5.50E-12
rs76610881	A	G			1.09E-01	4.52E-02	4.75E-03	1.90E-21
rs17547712	G	A			7.86E-02	3.22E-02	5.53E-03	6.10E-09
rs255755	A	G			2.70E-01	-2.45E-02	3.35E-03	2.50E-13
rs40270	A	C			7.73E-01	-3.89E-02	3.52E-03	2.80E-28
rs13179413	C	T			2.84E-01	-2.28E-02	3.34E-03	8.60E-12
rs34358	G	A			6.54E-01	-2.26E-02	3.11E-03	3.90E-13
rs6860245	G	C			2.48E-01	2.52E-02	3.44E-03	2.10E-13
rs6865292	T	C			2.75E-01	-1.87E-02	3.37E-03	2.90E-08
rs2963431	C	T			2.38E-01	-2.30E-02	3.48E-03	3.50E-11
rs75479205	A	G			1.90E-01	2.54E-02	3.78E-03	1.70E-11

rs806794	A	G	2.75E-01	2.40E-02	3.31E-03	4.30E-13
rs3130500	T	A	7.44E-01	-2.69E-02	3.38E-03	1.80E-15
rs9766229	A	C	4.13E-02	4.34E-02	7.52E-03	8.00E-09
rs6939861	G	A	2.62E-01	-3.75E-02	3.41E-03	3.70E-28
rs998584	C	A	4.84E-01	-2.11E-02	2.97E-03	1.10E-12
rs651837	A	G	5.91E-01	1.96E-02	3.01E-03	7.70E-11
rs1293953	G	C	3.03E-01	2.15E-02	3.23E-03	3.20E-11
rs673736	G	A	4.83E-01	3.07E-02	2.97E-03	4.40E-25
rs849138	G	A	5.06E-01	1.66E-02	2.96E-03	1.90E-08
rs740158	T	C	4.88E-01	1.62E-02	2.97E-03	4.50E-08
rs1229498	T	G	7.23E-01	-2.15E-02	3.36E-03	1.50E-10
rs1688606	G	A	8.16E-01	7.43E-02	3.82E-03	2.40E-84
rs10238028	A	G	6.77E-02	3.97E-02	5.90E-03	1.80E-11
rs17884589	G	A	1.84E-01	3.56E-02	3.81E-03	9.00E-21
rs11556924	C	T	3.88E-01	2.31E-02	3.04E-03	2.50E-14
rs157935	T	G	3.03E-01	1.79E-02	3.23E-03	2.80E-08
rs114949263	T	C	1.11E-01	3.04E-02	4.71E-03	1.10E-10
rs9987289	A	G	9.08E-01	4.09E-02	5.12E-03	1.30E-15
rs12543287	G	C	3.73E-01	2.44E-02	3.07E-03	2.10E-15
rs10504255	G	A	6.63E-01	1.95E-02	3.14E-03	4.70E-10
rs7822342	A	G	5.88E-01	2.39E-02	3.01E-03	1.90E-15
rs150539196	A	G	3.56E-02	9.40E-02	8.22E-03	2.80E-30
rs440837	A	G	2.07E-01	5.20E-02	3.65E-03	5.20E-46
rs9632838	G	A	4.34E-01	1.68E-02	3.00E-03	2.10E-08
rs2223054	T	C	5.71E-01	-2.17E-02	2.99E-03	3.90E-13
rs13273326	A	G	5.30E-01	-1.93E-02	2.97E-03	8.80E-11
rs1330307	A	C	4.86E-01	-1.74E-02	2.97E-03	4.60E-09
rs7039093	C	G	4.25E-01	1.84E-02	3.00E-03	8.20E-10
rs696825	C	T	2.53E-01	4.89E-02	3.41E-03	1.20E-46
rs28372209	A	G	5.26E-01	-1.64E-02	2.97E-03	3.20E-08
rs62565259	C	T	1.72E-01	2.30E-02	3.95E-03	5.90E-09
rs62580785	T	C	1.79E-01	2.24E-02	3.87E-03	7.30E-09
rs2781265	G	C	3.19E-01	-1.78E-02	3.16E-03	2.00E-08
rs4837794	T	C	6.69E-01	-2.59E-02	3.16E-03	2.00E-16
rs112086410	G	C	1.25E-01	-3.02E-02	4.49E-03	1.80E-11
rs34463468	C	T	7.79E-01	-3.10E-02	3.58E-03	4.30E-18
rs79717793	G	A	1.54E-01	-4.21E-02	4.10E-03	9.50E-25
rs7921378	G	C	4.80E-01	-2.03E-02	2.96E-03	7.60E-12
rs71508908	C	T	1.03E-01	3.10E-02	4.95E-03	3.60E-10
rs7073746	A	G	4.73E-01	9.16E-02	2.96E-03	1.00E-200
rs79721752	T	C	1.80E-01	-2.20E-02	3.98E-03	3.40E-08
rs10824744	A	G	1.96E-01	-2.80E-02	3.72E-03	5.00E-14
rs2068888	G	A	4.52E-01	2.37E-02	2.97E-03	1.30E-15
rs11188662	C	T	3.29E-01	1.97E-02	3.15E-03	4.00E-10
rs701810	C	T	3.24E-01	-1.89E-02	3.17E-03	2.60E-09
rs2254069	G	A	1.20E-01	-3.25E-02	4.56E-03	9.50E-13
rs3842763	G	T	2.41E-01	2.77E-02	3.50E-03	2.30E-15
rs7947951	A	G	6.89E-01	-2.80E-02	3.19E-03	1.70E-18
rs11023881	T	A	3.89E-01	-2.31E-02	3.03E-03	2.60E-14
rs62618693	C	T	4.45E-02	4.32E-02	7.17E-03	1.70E-09
rs174537	G	T	3.44E-01	-2.76E-02	3.11E-03	6.30E-19
rs3015966	T	C	3.33E-01	-2.39E-02	3.14E-03	2.70E-14
rs551243	G	C	4.70E-01	-1.68E-02	2.97E-03	1.50E-08
rs12805041	C	T	2.29E-01	3.29E-02	3.52E-03	9.10E-21
rs10898075	C	T	1.69E-01	-2.51E-02	3.95E-03	2.30E-10
rs12575636	T	G	1.89E-01	-2.81E-02	3.79E-03	1.30E-13
rs4938637	G	A	7.52E-02	3.58E-02	5.61E-03	1.80E-10
rs117233107	G	A	1.51E-02	1.11E-01	1.29E-02	7.10E-18

rs11064358	G	A	1.36E-01	-2.63E-02	4.32E-03	1.20E-09
rs1871395	A	G	1.52E-01	-5.33E-02	4.12E-03	2.60E-38
rs1989390	C	A	8.33E-01	-2.37E-02	4.03E-03	4.10E-09
rs75130744	G	C	7.08E-02	-5.31E-02	5.78E-03	4.10E-20
rs80127816	G	A	5.20E-02	-3.84E-02	6.66E-03	7.90E-09
rs4307773	T	C	5.83E-01	-2.65E-02	2.99E-03	9.30E-19
rs11172134	T	A	2.02E-01	3.12E-02	3.68E-03	2.50E-17
rs315125	C	T	7.30E-01	1.86E-02	3.33E-03	2.10E-08
rs61934152	T	C	1.54E-01	-2.43E-02	4.16E-03	5.20E-09
rs117116521	A	C	2.08E-02	-6.68E-02	1.04E-02	1.40E-10
rs10860594	C	T	3.76E-01	-2.35E-02	3.06E-03	1.50E-14
rs5009837	T	C	7.16E-01	-2.76E-02	3.27E-03	3.00E-17
rs7298698	T	C	4.68E-01	-5.60E-02	2.97E-03	2.00E-79
rs7304705	A	G	7.85E-02	5.54E-02	5.50E-03	7.10E-24
rs7310409	A	G	6.20E-01	2.71E-02	3.04E-03	4.60E-19
rs1882491	T	C	3.11E-01	1.99E-02	3.19E-03	4.90E-10
rs825453	A	T	6.08E-01	-2.33E-02	3.03E-03	1.80E-14
rs1239948	A	T	6.09E-01	-1.93E-02	3.03E-03	2.20E-10
rs9561638	A	C	3.51E-01	1.82E-02	3.10E-03	4.90E-09
rs34210072	G	A	1.89E-01	2.37E-02	3.79E-03	3.60E-10
rs11621792	C	T	4.53E-01	-4.81E-02	3.00E-03	6.40E-58
rs72683923	T	C	2.00E-02	6.73E-02	1.06E-02	1.80E-10
rs2239222	A	G	3.50E-01	1.92E-02	3.12E-03	7.40E-10
rs13379043	T	C	2.79E-01	2.01E-02	3.36E-03	2.10E-09
rs28929474	C	T	1.99E-02	1.25E-01	1.06E-02	6.90E-32
rs17580	T	A	4.75E-02	4.59E-02	6.96E-03	4.10E-11
rs2498786	C	G	6.16E-01	-2.27E-02	3.05E-03	9.90E-14
rs8025008	C	T	1.59E-01	2.23E-02	4.05E-03	3.80E-08
rs150844304	A	C	2.60E-02	-8.26E-02	9.28E-03	5.60E-19
rs17652767	G	A	1.05E-01	-4.49E-02	4.82E-03	1.40E-20
rs79391862	A	C	1.39E-02	-1.48E-01	1.28E-02	6.80E-31
rs621694	A	T	3.58E-02	5.17E-02	8.05E-03	1.30E-10
rs28539993	C	T	4.24E-01	2.67E-02	2.99E-03	4.70E-19
rs79240050	G	A	3.00E-02	5.81E-02	9.15E-03	2.20E-10
rs56332871	C	A	2.74E-01	7.49E-02	3.33E-03	3.20E-112
rs10083762	C	G	2.74E-01	1.95E-02	3.32E-03	4.70E-09
rs11644601	T	C	2.99E-01	2.41E-02	3.24E-03	1.10E-13
rs12444108	G	A	4.02E-01	-1.78E-02	3.02E-03	4.00E-09
rs62033400	A	G	3.93E-01	-2.36E-02	3.03E-03	7.30E-15
rs2925979	T	C	7.00E-01	2.54E-02	3.23E-03	4.00E-15
rs7194995	C	A	7.69E-01	-2.77E-02	3.52E-03	3.40E-15
rs141667726	C	T	7.34E-03	-5.40E-01	1.77E-02	1.00E-200
rs139667716	G	A	2.03E-02	8.74E-02	1.13E-02	1.10E-14
rs142046629	C	T	6.11E-02	-6.78E-02	6.31E-03	6.30E-27
rs141859743	C	T	9.57E-03	-1.50E-01	1.61E-02	1.40E-20
rs150688657	G	A	1.03E-01	-1.81E-01	4.84E-03	1.00E-200
rs57116414	G	A	3.15E-02	-1.49E-01	8.43E-03	4.60E-70
rs17881850	G	A	1.07E-02	1.39E-01	1.45E-02	9.90E-22
rs17880847	T	A	1.32E-02	-2.04E-01	1.31E-02	1.40E-54
rs12953179	T	C	5.26E-02	8.28E-02	7.24E-03	2.50E-30
rs7224815	A	T	4.08E-01	-3.27E-02	2.99E-03	6.50E-28
rs12943365	C	G	6.10E-01	2.16E-02	3.01E-03	7.70E-13
rs9911944	G	T	4.88E-01	-4.04E-02	2.94E-03	4.40E-43
rs7220103	A	G	4.06E-02	6.04E-02	7.43E-03	4.30E-16
rs9907478	C	T	8.71E-02	1.32E-01	5.19E-03	4.20E-142
rs8178824	C	T	3.02E-02	-8.16E-02	8.59E-03	2.00E-21
rs72844546	C	T	6.53E-01	-2.14E-02	3.08E-03	3.90E-12
rs10153315	T	C	4.18E-01	-1.91E-02	2.98E-03	1.30E-10

rs8087306	G	C	6.87E-01	-1.89E-02	3.19E-03	3.10E-09
rs1217569	G	A	2.12E-01	-2.41E-02	3.67E-03	5.00E-11
rs663640	C	T	2.19E-01	-2.22E-02	3.58E-03	5.50E-10
rs941408	C	T	2.87E-01	4.54E-02	3.27E-03	6.70E-44
rs4804416	T	G	4.27E-01	-3.62E-02	2.99E-03	9.70E-34
rs202200760	G	C	3.93E-02	1.55E-01	8.31E-03	6.70E-78
rs273492	G	A	2.56E-01	-2.80E-02	3.39E-03	1.60E-16
rs60321073	A	G	1.79E-01	-2.40E-02	3.87E-03	5.10E-10
rs8104606	G	A	6.50E-01	1.76E-02	3.10E-03	1.50E-08
rs1350292	C	T	9.33E-01	6.40E-02	5.92E-03	2.70E-27
rs75702986	G	A	1.86E-01	2.95E-02	3.84E-03	1.50E-14
rs74444983	T	C	2.59E-01	-2.10E-02	3.40E-03	6.90E-10
rs34255979	C	T	1.21E-01	5.11E-02	4.55E-03	3.20E-29
rs2618567	G	T	6.58E-01	-1.94E-02	3.12E-03	5.60E-10
rs67611724	C	T	1.54E-01	-2.49E-02	4.09E-03	1.00E-09
rs6120663	C	A	4.40E-01	-1.94E-02	2.99E-03	8.10E-11
rs6129802	C	T	2.13E-01	2.35E-02	3.61E-03	6.80E-11
rs6073431	C	T	5.32E-01	3.28E-02	3.02E-03	2.00E-27
rs55987409	C	T	7.22E-02	3.23E-02	5.73E-03	1.70E-08
rs6063803	A	G	5.81E-01	-1.95E-02	3.01E-03	9.60E-11
rs310670	G	C	6.50E-01	-1.74E-02	3.13E-03	2.90E-08
rs165722	C	T	5.15E-01	-1.73E-02	2.98E-03	7.10E-09
rs4820091	T	G	1.82E-01	2.44E-02	3.86E-03	2.60E-10
rs757869	G	A	7.08E-01	-3.06E-02	3.26E-03	5.10E-21
rs3747207	G	A	2.15E-01	3.56E-02	3.60E-03	5.90E-23

Supplementary Table S20: Screening threshold for genetic instruments for educational attainment and mediators

Variable	Threshold
Educational Attainment	Pval<5e-08
BMI	Pval<5e-08
BFP	Pval<5e-08
WHR	Pval<5e-08
Smoke	Pval<5e-08
SWB	Pval<5e-05
DS	Pval<5e-06
Major depression	Pval<5e-08
Age at first birth	pval<5e-06
Age at last live birth	Pval<5e-08
Age at menopause	Pval<5e-08
SBP	Pval<5e-08
Coffee	Pval<5e-08
Cholesterol	Pval<5e-08
Triglyceride	Pval<5e-08
Fasting insulin	pval<5e-06
IGF1	pval<5e-06
testosterone	Pval<5e-08
SHBG	Pval<5e-08

Supplementary TableS21: Univariable Mendelian Randomization Analyses of Educational Attainment on Gynecological Malignancies

	Number of SNPs	MR Egger		Weighted median		Inverse variance weighted		Simple mode		Weighted mode		Heterogen	Pleiotropy
		OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	city test P value	test P value
EC	304	0.58(0.32-1.05)	7.30E-02	0.75(0.60-0.93)	9.30E-03	0.71(0.61-0.83)	1.38E-05	0.57(0.27-1.18)	1.41E-01	0.69(0.37-1.28)	2.38E-01	0.14	0.47
EEC	304	0.38(0.19-0.76)	6.77E-03	0.66(0.51-0.85)	2.25E-03	0.65(0.54-0.77)	1.51E-06	0.46(0.18-1.16)	8.35E-02	0.46(0.21-0.99)	6.10E-02	0.22	0.12
NEEC	303	3.13(0.58-16.84)	1.86E-01	1.12(0.60-2.10)	7.22E-01	0.99(0.65-1.52)	9.74E-01	0.94(0.10-8.61)	9.56E-01	1.16(0.20-6.74)	8.64E-01	0.77	0.17
OC	288	1.16(0.67-2.03)	5.92E-01	0.87(0.72-1.05)	1.53E-01	0.84(0.73-0.97)	1.65E-02	0.71(0.37-1.36)	3.07E-01	1.28(0.71-2.33)	3.91E-01	0.02	0.24
Endometrioid ovarian cancer	288	0.75(0.23-2.49)	6.44E-01	0.76(0.49-1.17)	2.27E-01	0.93(0.68-1.25)	6.19E-01	0.59(0.13-2.64)	4.75E-01	0.66(0.17-2.58)	5.07E-01	0.04	0.73
Serous ovarian cancer	288	1.16(0.61-2.22)	6.50E-01	0.81(0.65-1.02)	7.59E-02	0.78(0.66-0.92)	3.43E-03	0.67(0.29-1.52)	3.06E-01	1.09(0.56-2.10)	7.98E-01	0.01	0.22
Mucinous ovarian cancer	288	1.29(0.24-6.94)	7.68E-01	0.81(0.45-1.45)	4.74E-01	0.78(0.51-1.20)	2.61E-01	0.65(0.08-5.21)	6.54E-01	0.87(0.17-4.39)	8.61E-01	0.01	0.55
Clear cell ovarian cancer	288	2.39(0.46-12.49)	3.04E-01	1.26(0.69-2.30)	4.62E-01	1.01(0.66-1.54)	9.66E-01	1.74(0.19-15.88)	6.29E-01	3.03(0.37-24.69)	2.92E-01	0.05	0.29
CC	297	0.53(0.09-3.17)	4.87E-01	0.83(0.43-1.61)	5.88E-01	0.60(0.38-0.95)	3.03E-02	1.22(0.12-12.66)	8.68E-01	1.14(0.16-8.07)	8.88E-01	0.92	0.89
Cervical squamous carcinoma	297	3.53(0.1-123.13)	4.87E-01	0.59(0.15-2.26)	4.43E-01	0.62(0.25-1.54)	3.01E-01	0.84(0.01-70.27)	9.42E-01	0.52(0.01-28.98)	7.63E-01	0.50	0.32
Cervical adenocarcinoma	297	3.63(0.04-365.01)	5.84E-01	0.77(0.13-4.45)	7.72E-01	0.53(0.16-1.75)	3.00E-01	0.44(0-121.50)	7.69E-01	3.81(0.04-339.99)	5.52E-01	0.15	0.40
CC in situ	298	1.02(0.42-2.51)	9.61E-01	0.64(0.45-0.91)	1.15E-02	0.61(0.48-0.77)	2.71E-05	0.28(0.08-0.91)	3.23E-02	0.36(0.15-0.90)	5.32E-02	0.27	0.24
vulvar cancer	297	0.43(0.03-5.78)	5.21E-01	0.80(0.30-2.12)	6.57E-01	0.72(0.37-1.41)	3.43E-01	0.17(0.00-6.74)	3.56E-01	2.66(0.12-59.74)	5.89E-01	0.14	0.68
vulvar cancer in situ	297	1.60(0.06-44.66)	7.82E-01	0.43(0.12-1.51)	2.02E-01	0.44(0.19-1.03)	5.95E-02	0.53(0.00-62.37)	7.79E-01	0.14(0.00-6.41)	3.53E-01	0.62	0.43

P values that have statistical significance (< 0.05) were in bold.

Supplementary TableS22: Univariable Mendelian Randomization Analyses of Educational Attainment on Mediators

	Number of	MR Egger		Weighted median		Inverse variance weighted		Simple mode		Weighted mode		Heterogeneity	Pleiotropy
		OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	test P value	test P value
BMI	138	0.79(0.58-1.07)	1.27E-01	0.82(0.78-0.86)	2.07E-14	0.80(0.74-0.86)	4.65E-10	0.78(0.66-0.91)	5.98E-03	0.81(0.67-0.98)	2.42E-02	0.00	0.93
BFP	148	0.89(0.59-1.33)	5.60E-01	0.86(0.77-0.97)	1.53E-02	0.83(0.75-0.91)	1.31E-04	0.68(0.47-0.99)	4.40E-02	0.85(0.61-1.19)	2.98E-01	0.00	0.75
WHR	142	0.97(0.74-1.27)	8.24E-01	0.92(0.84-1.00)	4.82E-02	0.90(0.84-0.96)	1.30E-03	0.72(0.54-0.96)	1.12E-02	1.04(0.82-1.32)	7.19E-01	0.06	0.59
Smoke	281	0.86(0.63-1.18)	3.58E-01	0.75(0.68-0.82)	5.13E-10	0.70(0.65-0.76)	5.69E-18	0.75(0.54-1.05)	7.79E-02	0.78(0.59-1.03)	8.17E-02	0.00	0.18
Alcohol	140	1.04(0.85-1.27)	7.04E-01	0.99(0.92-1.06)	7.05E-01	1.02(0.97-1.07)	4.72E-01	0.95(0.77-1.16)	5.96E-01	0.94(0.77-1.15)	5.11E-01	0.38	0.83
SWB	140	0.98(0.78-1.24)	8.88E-01	1.10(1.03-1.17)	5.01E-03	1.11(1.06-1.17)	5.07E-05	1.11(0.92-1.32)	3.10E-01	1.07(0.93-1.24)	3.68E-01	0.00	0.27
DS	300	0.94(0.79-1.13)	5.23E-01	0.85(0.80-0.89)	1.05E-08	0.81(0.77-0.84)	2.20E-21	0.90(0.75-1.07)	2.82E-01	0.88(0.76-1.01)	7.61E-02	0.00	0.08
Major depression	278	0.85(0.63-1.14)	2.83E-01	0.78(0.73-0.84)	3.75E-11	0.78(0.73-0.85)	2.35E-10	0.65(0.51-0.84)	3.40E-04	0.67(0.53-0.84)	9.67E-04	0.00	0.59
Age at menarche	242	0.82(0.55-1.22)	3.28E-01	0.99(0.92-1.07)	8.42E-01	0.95(0.86-1.05)	3.10E-01	1.02(0.75-1.37)	9.18E-01	1.00(0.78-1.28)	9.82E-01	0.00	0.45
Age at first birth	241	6.29(1.51-26.23)	1.22E-02	6.33(3.71-10.81)	2.41E-12	8.59(6.03-12.23)	8.06E-33	3.61(0.64-20.22)	1.32E-01	3.61(0.75-17.27)	9.10E-02	0.27	0.66
Age at last live birth	304	1.80(1.55-2.08)	8.27E-14	1.69(1.61-1.78)	4.3E-92	1.70(1.64-1.77)	3.8E-173	1.52(1.27-1.81)	5.5E-06	1.75(1.49-2.04)	2.5858E-09	0.00	0.46
Age at menopause	304	1.14(0.95-1.37)	1.64E-01	1.20(1.14-1.27)	4.60E-11	1.20(1.14-1.25)	8.93E-14	1.20(0.98-1.46)	9.63E-02	1.20(0.97-1.48)	1.00E-01	0.00	0.61
SBP	279	0.59(0.04-7.82)	6.89E-01	0.12(0.07-0.22)	3.02E-13	0.13(0.07-0.25)	5.55E-10	0.06(0.00-0.67)	1.47E-02	0.09(0.01-1.25)	7.78E-02	0.00	0.24
Coffee	304	1.12(1.03-1.23)	7.97E-03	1.10(1.07-1.13)	1.26E-13	1.10(1.08-1.13)	7.06E-19	1.12(1.02-1.22)	1.13E-02	1.09(1.01-1.17)	4.98E-02	0.00	0.66
Cholesterol	305	1.01(0.97-1.05)	6.38E-01	1.03(1.02-1.04)	2.55E-07	1.03(1.02-1.04)	2.29E-08	1.04(1.00-1.09)	4.21E-02	1.04(1.00-1.08)	4.60E-02	0.00	0.33
Triglyceride	127	0.93(0.68-1.26)	6.22E-01	0.87(0.79-0.97)	1.26E-02	0.86(0.80-0.93)	4.86E-05	0.92(0.68-1.23)	5.34E-01	0.89(0.69-1.16)	3.87E-01	0.12	0.63
HDL	127	0.95(0.68-1.32)	7.57E-01	1.10(0.98-1.23)	8.19E-02	1.08(1.00-1.17)	5.64E-02	1.17(0.86-1.58)	3.10E-01	1.12(0.84-1.49)	4.16E-01	0.01	0.43
LDL	127	0.88(0.62-1.24)	4.69E-01	0.93(0.82-1.04)	2.01E-01	0.92(0.85-1.00)	5.63E-02	0.91(0.65-1.25)	5.45E-01	0.92(0.70-1.20)	5.09E-01	0.08	0.78
T2D	7	12.82(0.90-181.95)	1.18E-01	0.93(0.51-1.73)	8.22E-01	0.65(0.32-1.33)	2.37E-01	0.91(0.47-1.78)	7.89E-01	0.82(0.51-1.33)	5.03E-01	0.01	0.07
Fasting insulin	123	1.03(0.84-1.27)	7.71E-01	0.95(0.89-1.02)	1.92E-01	0.95(0.90-0.99)	2.35E-02	0.95(0.78-1.15)	5.99E-01	0.94(0.79-1.11)	4.60E-01	0.48	0.40
IGF1	305	1.60(0.48-5.37)	4.46E-01	2.39(1.91-2.99)	7.13E-14	2.00(1.48-2.72)	8.84E-06	2.65(1.32-5.31)	1.20E-02	2.89(1.59-5.25)	1.94E-03	0.00	0.71
Testosterone	282	1.03(0.86-1.24)	7.29E-01	0.95(0.90-1.00)	3.83E-02	0.94(0.89-0.98)	7.40E-03	0.97(0.82-1.14)	6.73E-01	0.96(0.83-1.10)	5.23E-01	0.00	0.29
SHBG	282	1.22(0.94-1.59)	1.44E-01	1.16(1.10-1.22)	1.86E-09	1.19(1.11-1.28)	4.03E-07	1.30(1.05-1.60)	1.46E-02	1.32(1.06-1.64)	1.32E-02	0.00	0.86
Estradiol	282	0.90(0.71-1.14)	3.90E-01	1.00(0.91-1.09)	9.41E-01	1.02(0.96-1.08)	4.95E-01	1.02(0.76-1.38)	8.78E-01	0.99(0.75-1.31)	9.39E-01	0.45	0.29

P values that have statistical significance (< 0.05) were in bold.

Supplementary TableS23. Univariable Mendelian Randomization Analyses of Mediators on Overall Endometrial Cancer

	Number of SNPs	MR Egger		Weighted median		Inverse variance weighted		Simple mode	Weighted mode		Heterogeneity	Pleiotropy	
		OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	y test P value	y test P value
BMI	450	2.24(1.65-3.05)	4.33E-07	1.85(1.58-2.18)	1.44E-13	1.89(1.69-2.11)	9.42E-30	2.80(1.65-4.74)	6.48E-05	1.44(1.00-2.09)	2.92E-02	0.00	0.25
BFP	10	3.59(0.66-19.47)	1.77E-01	2.16(1.42-3.28)	5.93E-04	2.11(1.48-3.00)	3.60E-05	1.62(0.83-3.18)	2.33E-01	2.04(1.10-3.75)	5.29E-02	0.16	0.54
WHR	36	5.76(1.55-21.48)	1.34E-02	1.04(0.77-1.42)	7.87E-01	0.96(0.72-1.30)	8.12E-01	0.91(0.50-1.67)	7.65E-01	1.06(0.66-1.70)	8.21E-01	0.00	0.01
Smoke	22	1.11(0.86-1.44)	4.34E-01	1.00(0.85-1.18)	9.64E-01	0.99(0.85-1.15)	9.12E-01	1.10(0.79-1.53)	5.80E-01	1.03(0.88-1.20)	7.58E-01	0.03	0.31
SWB	81	11.18(1.09-114.73)	4.56E-02	1.27(0.49-3.3)	6.37E-01	1.37(0.69-2.72)	3.75E-01	1.9(0.19-18.73)	5.84E-01	1.74(0.19-15.75)	6.30E-01	0.54	0.07
DS	23	1.21(0.34-4.25)	7.72E-01	1.23(0.75-2.02)	3.92E-01	1.13(0.80-1.60)	4.83E-01	0.75(0.30-1.87)	5.43E-01	1.66(0.70-3.93)	2.64E-01	0.36	0.92
Major depression	48	3.56(1.38-9.17)	1.15E-02	1.11(0.88-1.41)	3.86E-01	1.04(0.87-1.26)	6.58E-01	1.38(0.77-2.48)	2.68E-01	1.37(0.76-2.45)	2.49E-01	0.07	0.01
Age at first birth	7	0.95(0.74-1.22)	7.01E-01	1.06(0.97-1.16)	2.08E-01	1.03(0.96-1.11)	3.67E-01	1.06(0.93-1.21)	3.96E-01	1.06(0.93-1.21)	4.09E-01	0.91	0.52
Age at last live birth	5	4.53(0.10-197.64)	4.90E-01	1.07(0.51-2.24)	8.58E-01	1.05(0.57-1.95)	8.81E-01	1.03(0.39-2.73)	9.51E-01	1.18(0.49-2.84)	7.51E-01	0.96	0.50
Age at menopause	107	1.45(1.16-1.81)	1.50E-03	1.34(1.15-1.57)	1.90E-04	1.23(1.10-1.38)	2.23E-04	1.39(0.96-2.01)	5.96E-02	1.38(1.14-1.67)	5.82E-04	0.00	0.10
SBP	438	0.99(0.98-1.01)	4.94E-01	1.00(0.99-1.01)	7.15E-01	1.00(0.99-1.01)	6.75E-01	1.01(0.99-1.04)	3.84E-01	1(0.98-1.01)	7.74E-01	0.00	0.35
Coffee	38	1.25(0.50-3.13)	6.32E-01	1.57(0.85-2.89)	1.47E-01	1.31(0.84-2.05)	2.37E-01	1.80(0.46-7.02)	3.84E-01	1.35(0.67-2.73)	3.97E-01	0.01	0.91
Cholesterol	50	1.90(0.50-7.25)	3.54E-01	1.34(0.53-3.38)	5.22E-01	1.36(0.67-2.76)	3.99E-01	2.26(0.34-14.98)	3.77E-01	2.51(0.64-9.77)	1.71E-01	0.00	0.57
Triglyceride	56	0.82(0.67-0.99)	4.06E-02	0.89(0.76-1.03)	1.16E-01	0.93(0.83-1.05)	2.27E-01	0.99(0.77-1.29)	9.55E-01	0.89(0.78-1.02)	7.84E-02	0.01	0.09
Fasting insulin	11	0.32(0.03-3.12)	3.50E-01	1.13(0.53-2.42)	7.54E-01	2.07(1.13-3.83)	1.94E-02	0.98(0.26-3.63)	9.74E-01	0.95(0.29-3.10)	9.32E-01	0.22	0.13
IGF1	320	1.00(0.97-1.04)	8.19E-01	0.99(0.97-1.01)	3.62E-01	1.00(0.98-1.01)	5.82E-01	0.94(0.88-1.00)	4.04E-02	0.99(0.95-1.02)	3.80E-01	0.00	0.56
testosterone	112	1.85(1.39-2.46)	4.79E-05	1.56(1.30-1.87)	1.80E-06	1.58(1.38-1.82)	1.22E-10	1.52(0.92-2.52)	1.02E-01	1.79(1.42-2.25)	1.06E-05	0.00	0.22
SHBG	190	0.87(0.73-1.04)	1.17E-01	0.87(0.76-0.99)	3.09E-02	0.83(0.75-0.91)	8.84E-05	0.91(0.68-1.23)	5.39E-01	0.85(0.72-1.00)	5.51E-02	0.00	0.55

P values that have statistical significance (< 0.05) were in bold.

Supplementary TableS24. Univariable Mendelian Randomization Analyses of Mediators on Overall Ovarian Cancer

	Number of SNPs	MR Egger		Weighted median		Inverse variance weighted		Simple mode		Weighted mode		Heterogeneity test	Pleiotropy test
		OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	P value	P value
BMI	429	1.27(0.96-1.68)	1.01E-01	1.09(0.94-1.26)	2.49E-01	1.12(1.02-1.24)	2.27E-02	0.78(0.49-1.25)	3.02E-01	1.06(0.79-1.42)	7.09E-01	0.00	0.38
BFP	10	1.61(0.50-5.22)	4.52E-01	1.20(0.85-1.69)	2.95E-01	1.13(0.87-1.46)	3.52E-01	1.21(0.66-2.19)	5.65E-01	1.40(0.84-2.34)	2.16E-01	0.57	0.56
WHR	33	0.69(0.30-1.58)	3.87E-01	0.96(0.74-1.25)	7.72E-01	0.99(0.82-1.18)	8.82E-01	0.76(0.41-1.41)	3.53E-01	0.74(0.42-1.30)	3.38E-01	0.55	0.39
Smoke	22	1.19(1.00-1.42)	6.22E-02	1.09(0.96-1.25)	2.13E-01	0.98(0.88-1.09)	6.88E-01	0.77(0.56-1.05)	1.05E-01	1.10(0.97-1.26)	1.72E-01	0.34	0.01
SWB	74	1.44(0.66-3.15)	3.59E-01	1.39(1.02-1.90)	3.89E-02	1.13(0.90-1.43)	2.95E-01	1.78(0.73-4.30)	1.47E-01	1.78(0.84-3.78)	1.58E-01	0.17	0.52
DS	21	0.98(0.28-3.43)	9.78E-01	1.13(0.71-1.81)	5.91E-01	1.03(0.72-1.47)	8.68E-01	1.43(0.61-3.33)	4.37E-01	1.38(0.65-2.92)	4.59E-01	0.15	0.94
Major depression	47	1.04(0.47-2.32)	9.23E-01	1.12(0.91-1.38)	2.77E-01	1.08(0.93-1.25)	3.18E-01	1.38(0.88-2.15)	2.09E-01	1.36(0.84-2.19)	2.06E-01	0.37	0.93
Age at first birth	7	0.96(0.69-1.32)	7.95E-01	1.11(1.01-1.21)	2.32E-02	1.06(0.97-1.16)	1.67E-01	1.13(0.95-1.33)	2.04E-01	1.12(0.95-1.32)	2.08E-01	0.05	0.53
Age at last live birth	6	1.35(0.17-10.94)	7.95E-01	1.50(0.77-2.95)	2.01E-01	1.53(0.91-2.57)	1.05E-01	1.78(0.61-5.23)	3.18E-01	1.11(0.52-2.34)	8.11E-01	0.39	0.91
Age at menopause	104	1.16(0.94-1.42)	1.67E-01	1.14(1.00-1.30)	5.15E-02	1.12(1.02-1.24)	1.63E-02	1.10(0.81-1.49)	5.61E-01	1.17(1.02-1.35)	2.33E-02	0.00	0.76
SBP	417	0.99(0.98-1.01)	1.98E-01	1.00(0.99-1.00)	4.30E-01	1.00(0.99-1.01)	8.97E-01	0.99(0.97-1.02)	6.27E-01	1.00(0.98-1.02)	7.70E-01	0.00	0.18
Coffee	36	1.31(0.56-3.09)	5.34E-01	1.30(0.83-2.05)	2.79E-01	0.97(0.63-1.48)	8.74E-01	1.45(0.58-3.63)	4.46E-01	1.19(0.69-2.06)	5.08E-01	0.00	0.42
Cholesterol	49	1.14(0.30-4.30)	8.47E-01	0.92(0.46-1.84)	8.22E-01	0.74(0.36-1.49)	3.94E-01	0.87(0.28-2.71)	8.03E-01	0.96(0.46-1.97)	8.98E-01	0.00	0.45
Triglyceride	54	0.98(0.82-1.17)	8.26E-01	0.95(0.84-1.08)	4.48E-01	1.02(0.92-1.13)	7.67E-01	1.05(0.81-1.35)	7.19E-01	0.97(0.86-1.10)	6.63E-01	0.01	0.62
Fasting insulin	11	1.29(0.12-13.84)	8.40E-01	1.18(0.61-2.26)	6.35E-01	1.27(0.74-2.20)	3.89E-01	0.72(0.24-2.19)	5.83E-01	0.71(0.23-2.17)	5.65E-01	0.20	0.99
IGF1	302	1.02(0.99-1.05)	2.19E-01	1.00(0.98-1.02)	9.37E-01	0.99(0.98-1.01)	2.92E-01	0.99(0.95-1.05)	8.21E-01	1.00(0.97-1.03)	9.18E-01	0.00	0.05
testosterone	106	0.88(0.66-1.16)	3.56E-01	0.93(0.80-1.08)	3.66E-01	0.91(0.81-1.01)	7.21E-02	0.89(0.62-1.27)	5.54E-01	1.05(0.74-1.49)	7.69E-01	0.15	0.80
SHBG	173	0.97(0.86-1.10)	6.72E-01	1.06(0.94-1.19)	3.39E-01	1.02(0.95-1.10)	5.17E-01	1.03(0.82-1.29)	8.19E-01	1.02(0.90-1.15)	7.89E-01	0.21	0.33

P values that have statistical significance (< 0.05) were in bold.

Supplementary TableS25. Univariable Mendelian Randomization Analyses of Mediators on Overall Cervical Cancer

		MR Egger		Weighted median		Inverse variance weighted		Simple mode		Weighted mode		Heterogeneity test	Pleiotropy test
	Number of	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	P value	P value
BMI	445	1.30(0.50-3.40)	5.94E-01	1.32(0.79-2.22)	2.98E-01	1.23(0.88-1.73)	2.26E-01	2.68(0.57-12.57)	2.33E-01	2.28(0.79-6.62)	1.46E-01	0.02	0.91
BFP	10	0.01(0.00-0.74)	6.92E-02	0.84(0.24-2.94)	7.82E-01	1.19(0.47-3.02)	7.07E-01	4.09(0.40-41.88)	2.74E-01	0.40(0.08-1.92)	3.16E-01	0.59	0.06
WHR	36	1.57(0.08-29.99)	7.67E-01	0.93(0.39-2.22)	8.75E-01	0.78(0.42-1.45)	4.34E-01	0.85(0.14-5.02)	8.63E-01	0.87(0.11-6.90)	8.91E-01	0.80	0.64
Smoke	22	1.10(0.59-2.07)	7.70E-01	1.13(0.70-1.83)	6.27E-01	1.13(0.79-1.62)	5.16E-01	1.55(0.67-3.61)	3.33E-01	1.14(0.70-1.87)	5.85E-01	0.65	0.93
SWB	79	1.18(0.09-15.66)	9.00E-01	1.74(0.59-5.11)	3.12E-01	1.08(0.51-2.28)	8.34E-01	4.35(0.31-61.41)	2.56E-01	3.51(0.31-39.72)	3.08E-01	0.82	0.95
DS	23	0.12(0.00-5.86)	2.95E-01	0.36(0.08-1.60)	1.82E-01	0.40(0.14-1.17)	9.47E-02	0.24(0.01-4.86)	3.16E-01	0.40(0.03-5.41)	5.25E-01	0.60	0.53
Major depression	47	0.80(0.04-17.49)	8.86E-01	1.19(0.56-2.54)	6.51E-01	0.96(0.57-1.63)	8.89E-01	0.34(0.05-2.55)	2.90E-01	1.65(0.21-12.78)	6.10E-01	0.56	0.90
Age at first birth	7	1.24(0.45-3.41)	6.90E-01	1.03(0.77-1.37)	8.67E-01	1.04(0.82-1.32)	7.42E-01	0.96(0.64-1.44)	8.61E-01	1.06(0.72-1.56)	8.01E-01	0.88	0.74
Age at last live birth	6	1.88(0.90-16.94)	8.91E-01	0.71(0.06-8.15)	7.86E-01	2.88(0.39-21.29)	3.00E-01	0.64(0.01-31.97)	8.32E-01	0.69(0.03-14.36)	8.30E-01	0.55	0.92
Age at menopause	107	1.08(0.57-2.05)	8.12E-01	0.77(0.50-1.19)	2.30E-01	0.85(0.64-1.13)	2.63E-01	0.82(0.31-2.18)	6.76E-01	0.80(0.41-1.54)	5.29E-01	0.19	0.41
SBP	430	0.99(0.94-1.03)	5.99E-01	1.00(0.97-1.02)	7.38E-01	0.99(0.97-1.01)	4.25E-01	1.00(0.92-1.09)	9.40E-01	1.01(0.94-1.08)	7.57E-01	0.07	0.82
Coffee	38	0.83(0.08-9.01)	8.81E-01	0.64(0.10-4.09)	6.40E-01	0.48(0.15-1.55)	2.17E-01	2.94(0.14-63.33)	5.65E-01	1.25(0.20-7.67)	8.21E-01	0.29	0.60
cholesterol	49	1.98(0.08-49.54)	6.80E-01	2.54(0.20-31.50)	4.84E-01	4.66(0.81-26.70)	8.39E-02	0.22(0.00-23.34)	5.35E-01	3.35(0.11-97.96)	5.23E-01	0.25	0.54
Triglyceride	55	1.48(0.85-2.58)	1.68E-01	1.57(1.00-2.46)	5.93E-02	1.33(0.95-1.85)	9.69E-02	1.53(0.74-3.15)	2.85E-01	1.66(1.09-2.54)	1.95E-02	0.15	0.62
Fasting insulin	12	0.01(0.00-64.66)	3.47E-01	0.30(0.03-3.01)	3.05E-01	0.58(0.08-4.16)	5.88E-01	0.08(0.00-9.85)	2.43E-01	0.09(0.00-3.94)	2.00E-01	0.11	0.40
IGF1	305	1.08(0.99-1.18)	1.01E-01	1.04(0.97-1.12)	2.78E-01	1.02(0.98-1.07)	3.07E-01	0.95(0.79-1.15)	6.08E-01	0.99(0.88-1.12)	9.16E-01	0.13	0.18
testosterone	101	0.85(0.46-1.57)	5.99E-01	0.90(0.53-1.53)	6.91E-01	1.06(0.74-1.52)	7.64E-01	4.06(1.03-15.98)	5.28E-02	0.93(0.55-1.55)	7.66E-01	0.01	0.39
SHBG	187	1.24(0.77-1.99)	3.70E-01	1.03(0.69-1.53)	9.01E-01	1.01(0.79-1.31)	9.14E-01	0.61(0.25-1.52)	3.01E-01	1.04(0.63-1.74)	8.67E-01	0.18	0.32