

SUPPLEMENTARY ONLINE CONTENT

Genetic determinants of blood lipids and cerebral small vessel disease: role of HDL cholesterol

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Supplementary Table 1. Descriptive characteristics of the genome-wide association studies (GWAS) that were included in our Mendelian randomization analysis.

GWAS	Phenotype	Sample size	Ancestry	Adjustments^a
<i>Instrument selection</i>				
GLGC & MVP	HDL-C, LDL-C, TG	617,303 individuals	Multi-ancestry	age, age ² , sex
GLGC	HDL-C, LDL-C, TG (for lipid-modifying drug targets & sensitivity analyses)	188,577 individuals	Multi-ancestry	age, age ² , sex
NMR-measured metabolite GWAS	Lipoprotein particle components	24,925 individuals	European	age, sex, time from last meal
<i>Examined outcomes</i>				
MEGASTROKE	Small vessel stroke	11,710 cases; 287,067 controls	Multi-ancestry European	age, sex
UK Biobank	WMH volume	10,597 individuals	(White British)	age, sex
ISGC ICH	ICH and subtypes (lobar, deep ICH)	1,537 cases/ 1,490 controls	European	age, sex

^a All GWAS studies have further adjusted for principal components.

Abbreviations. GLGC, global lipids genetics consortium; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; MVP, Million Veteran Program; NMR, Nuclear Magnetic Resonance; TG, triglycerides.

Supplementary Table 2. Genetic instruments for blood lipid levels selected from the meta-analyzed datasets of the Million Veterans Program (MVP) and the Global Lipids Genetics Consortium (GLGC).

Phenotype	SNP	Chr	Position (hg18)	Eff_allele	Effect	SE	P-value	R2	F
HDL-C	rs1767141	1	23734350	a	0.026	0.004	1.4E-10	0.0001	64.5
HDL-C	rs6668958	1	26902388	t	0.020	0.003	2.3E-12	0.0001	81.0
HDL-C	rs17162330	1	27236212	t	0.041	0.003	1.5E-35	0.0004	258.0
HDL-C	rs12144891	1	28344980	a	0.017	0.003	1.3E-10	0.0001	69.4
HDL-C	rs4660293	1	40028180	a	0.040	0.002	2.5E-62	0.0006	342.9
HDL-C	rs1168089	1	63113719	t	0.015	0.002	1.8E-10	0.0001	63.6
HDL-C	rs4847399	1	93584606	a	0.022	0.002	8.3E-25	0.0002	136.2
HDL-C	rs2878349	1	107549245	a	0.015	0.003	2.1E-09	0.0001	61.3
HDL-C	rs12740374	1	109817590	t	0.045	0.002	9.6E-79	0.0007	430.3
HDL-C	rs7550711	1	110082886	t	0.049	0.006	1.6E-16	0.0001	82.5
HDL-C	rs28362581	1	110163879	a	0.028	0.004	4.0E-13	0.0001	67.1
HDL-C	rs333947	1	110470764	a	0.027	0.003	4.3E-15	0.0002	113.6
HDL-C	rs267738	1	150940625	t	0.024	0.003	9.9E-22	0.0002	109.5
HDL-C	rs12145743	1	156700651	t	0.014	0.002	2.0E-10	0.0001	53.0
HDL-C	rs1011731	1	172346548	a	0.013	0.002	1.9E-11	0.0001	54.5
HDL-C	rs4650994	1	178515312	a	0.019	0.002	4.7E-22	0.0002	115.1
HDL-C	rs2243976	1	182157235	a	0.029	0.002	2.0E-33	0.0004	234.2
HDL-C	rs16856110	1	205631767	a	0.020	0.003	5.0E-10	0.0001	84.0
HDL-C	rs6694509	1	219631981	t	0.019	0.002	2.6E-17	0.0002	111.2
HDL-C	rs2807834	1	220970593	t	0.024	0.003	1.8E-21	0.0002	145.1
HDL-C	rs4846914	1	230295691	a	0.047	0.002	9.2E-110	0.0011	663.0
HDL-C	rs1043900	1	230416744	a	0.023	0.003	8.3E-16	0.0002	109.6
HDL-C	rs558971	1	234853406	a	0.014	0.002	8.1E-09	0.0001	59.1
HDL-C	rs11553746	2	272203	t	0.016	0.002	5.7E-14	0.0001	68.7
HDL-C	rs2867125	2	622827	t	0.017	0.003	3.2E-11	0.0001	52.4
HDL-C	rs4850047	2	3634753	t	0.020	0.003	1.0E-09	0.0001	63.3
HDL-C	rs676210	2	21231524	a	0.062	0.002	4.7E-143	0.0013	787.0
HDL-C	rs562338	2	21288321	a	0.018	0.003	1.8E-12	0.0001	60.7
HDL-C	rs36020289	2	53992622	c	0.046	0.008	2.0E-09	0.0001	43.0
HDL-C	rs12990465	2	65281401	t	0.026	0.003	1.9E-18	0.0003	164.3
HDL-C	rs13389219	2	165528876	t	0.033	0.002	1.2E-54	0.0005	314.9
HDL-C	rs6435161	2	203519783	t	0.018	0.002	1.6E-13	0.0001	82.2
HDL-C	rs2943641	2	227093745	t	0.039	0.002	2.5E-77	0.0007	427.1
HDL-C	rs11712666	3	11619958	a	0.014	0.002	1.0E-09	0.0001	60.7
HDL-C	rs2067819	3	12359049	a	0.021	0.003	5.6E-14	0.0002	93.9
HDL-C	rs2292101	3	12434901	t	0.044	0.007	1.8E-11	0.0002	95.1
HDL-C	rs6777217	3	36979042	a	0.013	0.002	1.1E-10	0.0001	51.0
HDL-C	rs2305637	3	47045846	t	0.026	0.003	1.1E-19	0.0002	119.1
HDL-C	rs6762477	3	50093209	a	0.023	0.002	2.1E-28	0.0003	162.8
HDL-C	rs13326165	3	52532118	a	0.021	0.003	1.3E-16	0.0001	89.4
HDL-C	rs11242	3	53125922	t	0.015	0.002	2.3E-10	0.0001	68.0
HDL-C	rs35000036	3	123190731	t	0.013	0.002	3.3E-10	0.0001	50.5
HDL-C	rs1279840	3	136006576	t	0.028	0.003	3.4E-25	0.0003	177.9
HDL-C	rs3773910	3	152171870	c	0.017	0.003	4.1E-10	0.0001	65.9
HDL-C	rs900399	3	156798732	a	0.021	0.002	1.4E-26	0.0002	134.2

HDL-C	rs7633675	3	185510613	t	0.013	0.002	2.2E-10	0.0001	49.0
HDL-C	rs4234589	3	185818882	a	0.022	0.003	6.2E-11	0.0001	72.3
HDL-C	rs11248051	4	858332	t	0.019	0.003	8.5E-09	0.0001	40.8
HDL-C	rs10019888	4	26062990	a	0.024	0.003	4.6E-15	0.0002	102.8
HDL-C	rs293429	4	69591612	t	0.013	0.002	1.5E-09	0.0001	45.5
HDL-C	rs10023050	4	88064431	a	0.015	0.002	3.7E-11	0.0001	68.9
HDL-C	rs3822072	4	89741269	a	0.021	0.002	1.4E-20	0.0002	141.0
HDL-C	rs2602836	4	100014805	a	0.013	0.002	2.0E-10	0.0001	48.7
HDL-C	rs112519623	4	103184239	a	0.047	0.008	8.8E-09	0.0001	39.8
HDL-C	rs13107325	4	103188709	t	0.078	0.004	6.3E-80	0.0009	540.0
HDL-C	rs6855363	4	157670537	t	0.019	0.002	1.3E-14	0.0002	93.2
HDL-C	rs7735253	5	53297611	a	0.021	0.003	6.5E-16	0.0002	105.7
HDL-C	rs459193	5	55806751	a	0.026	0.002	9.2E-33	0.0003	168.5
HDL-C	rs9686661	5	55861786	t	0.034	0.003	3.5E-42	0.0004	229.0
HDL-C	rs4976033	5	67714246	a	0.013	0.002	1.8E-11	0.0001	55.1
HDL-C	rs10057967	5	74997756	t	0.021	0.003	2.8E-14	0.0002	121.3
HDL-C	rs4705986	5	132349654	t	0.035	0.006	2.0E-09	0.0001	87.9
HDL-C	rs390299	5	153363334	a	0.015	0.002	4.6E-12	0.0001	60.4
HDL-C	rs2434612	5	158022041	a	0.023	0.003	8.1E-16	0.0002	104.0
HDL-C	rs7730898	5	170459675	a	0.018	0.003	1.9E-12	0.0001	81.4
HDL-C	rs1265099	6	31105413	a	0.017	0.002	1.2E-16	0.0001	86.2
HDL-C	rs184070214	6	31526080	a	0.045	0.007	1.5E-09	0.0001	46.8
HDL-C	rs9332739	6	31903804	c	0.029	0.005	1.8E-09	0.0001	43.9
HDL-C	rs3135006	6	32667119	t	0.019	0.003	3.0E-13	0.0001	84.9
HDL-C	rs2894342	6	33774394	a	0.015	0.002	1.3E-09	0.0001	46.4
HDL-C	rs1759645	6	34194866	t	0.024	0.003	3.3E-13	0.0002	97.4
HDL-C	rs16885998	6	34268107	t	0.051	0.006	3.0E-16	0.0002	138.8
HDL-C	rs11755393	6	34824636	a	0.030	0.002	5.9E-45	0.0004	262.9
HDL-C	rs41270076	6	35467891	t	0.039	0.006	6.2E-10	0.0001	48.2
HDL-C	rs4711698	6	41987451	t	0.018	0.003	2.8E-11	0.0001	76.4
HDL-C	rs2274517	6	42932715	t	0.016	0.002	1.4E-11	0.0001	74.5
HDL-C	rs6905288	6	43758873	a	0.030	0.002	5.5E-49	0.0004	262.8
HDL-C	rs35349911	6	43785255	t	0.014	0.002	1.0E-11	0.0001	57.9
HDL-C	rs881858	6	43806609	a	0.014	0.002	9.5E-11	0.0001	49.3
HDL-C	rs2754820	6	109246891	a	0.020	0.003	3.1E-09	0.0001	76.6
HDL-C	rs884366	6	109574095	a	0.014	0.002	8.1E-11	0.0001	54.0
HDL-C	rs3756772	6	116325142	t	0.013	0.002	1.6E-10	0.0001	49.4
HDL-C	rs2745353	6	127452935	t	0.020	0.002	6.5E-24	0.0002	125.5
HDL-C	rs6925103	6	137076010	t	0.012	0.002	1.3E-09	0.0001	45.5
HDL-C	rs643381	6	139839423	a	0.021	0.002	2.5E-25	0.0002	133.5
HDL-C	rs41272114	6	161006077	t	0.066	0.006	3.4E-27	0.0003	181.0
HDL-C	rs1652507	6	161082461	t	0.046	0.003	9.6E-51	0.0006	365.4
HDL-C	rs1997243	7	1083777	a	0.022	0.003	2.2E-15	0.0001	80.2
HDL-C	rs2303361	7	6449496	t	0.024	0.002	4.1E-23	0.0002	118.6
HDL-C	rs10282707	7	17911038	t	0.026	0.002	7.6E-32	0.0003	200.3
HDL-C	rs1534696	7	26397239	a	0.019	0.003	1.3E-13	0.0002	104.1
HDL-C	rs2726070	7	36170883	a	0.017	0.003	2.0E-10	0.0001	90.4
HDL-C	rs4917014	7	50305863	t	0.014	0.002	5.0E-11	0.0001	50.2

HDL-C	rs1178979	7	72856430	t	0.034	0.003	6.2E-41	0.0003	206.0
HDL-C	rs11556924	7	129663496	t	0.013	0.002	2.0E-09	0.0001	44.8
HDL-C	rs972283	7	130466854	a	0.028	0.002	2.9E-43	0.0004	233.6
HDL-C	rs3735080	7	150217309	t	0.014	0.002	2.7E-09	0.0001	41.1
HDL-C	rs7787577	7	150521026	a	0.031	0.005	8.3E-12	0.0002	102.0
HDL-C	rs11774381	8	9183339	t	0.028	0.003	5.1E-24	0.0003	192.0
HDL-C	rs4841132	8	9183596	a	0.108	0.003	1.9E-215	0.0020	1207.7
HDL-C	rs9657541	8	10643164	t	0.025	0.003	3.6E-17	0.0002	124.0
HDL-C	rs1801177	8	19805708	a	0.120	0.009	2.3E-44	0.0005	324.7
HDL-C	rs264	8	19813180	a	0.033	0.003	6.1E-23	0.0003	161.6
HDL-C	rs268	8	19813529	a	0.238	0.008	5.5E-213	0.0018	1108.5
HDL-C	rs13702	8	19824492	t	0.059	0.005	4.4E-32	0.0014	890.5
HDL-C	rs17091872	8	19831977	a	0.056	0.004	2.6E-36	0.0009	573.9
HDL-C	rs2410622	8	19854773	t	0.026	0.004	1.4E-10	0.0002	113.1
HDL-C	rs6983170	8	19860161	t	0.093	0.010	5.6E-19	0.0005	281.3
HDL-C	rs6651485	8	19861854	a	0.054	0.004	1.9E-36	0.0011	650.1
HDL-C	rs2083637	8	19865175	a	0.048	0.005	3.5E-22	0.0009	557.7
HDL-C	rs7837677	8	19889872	t	0.034	0.004	3.8E-16	0.0005	317.9
HDL-C	rs10106652	8	19928160	a	0.031	0.005	4.6E-11	0.0004	230.1
HDL-C	rs34859606	8	19930682	c	0.019	0.003	9.0E-09	0.0001	70.4
HDL-C	rs6586892	8	19941145	a	0.036	0.004	5.5E-22	0.0006	377.0
HDL-C	rs6983999	8	19955920	a	0.024	0.003	2.3E-15	0.0003	176.9
HDL-C	rs4512408	8	71099094	t	0.026	0.004	5.5E-12	0.0001	80.8
HDL-C	rs2957447	8	106357374	a	0.014	0.002	8.9E-09	0.0001	58.2
HDL-C	rs2293889	8	116599199	t	0.030	0.002	2.7E-52	0.0004	275.0
HDL-C	rs4871137	8	121868551	t	0.021	0.002	4.4E-22	0.0002	127.3
HDL-C	rs17405319	8	126449406	t	0.025	0.003	9.0E-16	0.0002	110.9
HDL-C	rs2954026	8	126484526	t	0.049	0.002	1.3E-108	0.0010	622.1
HDL-C	rs581080	9	15305378	c	0.037	0.003	1.5E-49	0.0004	266.9
HDL-C	rs13292026	9	107557315	a	0.044	0.007	4.9E-09	0.0001	66.2
HDL-C	rs2230808	9	107562804	t	0.024	0.002	3.8E-23	0.0002	129.8
HDL-C	rs76881554	9	107578620	a	0.164	0.025	3.4E-11	0.0001	56.4
HDL-C	rs2066714	9	107586753	t	0.051	0.003	3.5E-69	0.0006	398.0
HDL-C	rs3905000	9	107657070	a	0.055	0.003	6.8E-56	0.0008	477.7
HDL-C	rs10120087	9	107661150	a	0.044	0.004	1.5E-26	0.0004	228.8
HDL-C	rs1800978	9	107665978	c	0.057	0.004	3.7E-52	0.0007	460.3
HDL-C	rs13284054	9	107669073	t	0.054	0.005	1.5E-27	0.0006	375.3
HDL-C	rs1800977	9	107690450	a	0.026	0.003	3.2E-24	0.0003	186.2
HDL-C	rs10733608	9	117148430	t	0.014	0.002	6.3E-09	0.0001	59.9
HDL-C	rs635634	9	136155000	t	0.015	0.003	6.6E-09	0.0001	40.9
HDL-C	rs11255744	10	8601074	t	0.018	0.003	1.3E-09	0.0001	80.4
HDL-C	rs10904908	10	17260290	a	0.012	0.002	4.1E-09	0.0001	42.0
HDL-C	rs970548	10	46013277	a	0.025	0.002	1.7E-26	0.0002	137.0
HDL-C	rs2068888	10	94839642	a	0.021	0.002	1.1E-24	0.0002	128.9
HDL-C	rs2862954	10	101912064	t	0.017	0.002	6.0E-18	0.0001	90.6
HDL-C	rs2792751	10	113940329	t	0.028	0.002	2.5E-36	0.0003	197.6
HDL-C	rs2148489	10	114048792	t	0.022	0.003	1.8E-15	0.0002	108.0
HDL-C	rs7076938	10	115789375	t	0.017	0.002	5.2E-15	0.0001	73.1
HDL-C	rs140201358	11	823586	c	0.052	0.009	2.8E-09	0.0001	43.3

HDL-C	rs16928809	11	2936952	a	0.025	0.004	7.7E-12	0.0001	62.1
HDL-C	rs6486121	11	13355770	t	0.015	0.002	2.5E-10	0.0001	65.3
HDL-C	rs2303975	11	14276999	a	0.019	0.003	1.4E-10	0.0001	49.5
HDL-C	rs925946	11	27667202	t	0.012	0.002	6.6E-09	0.0001	37.8
HDL-C	rs7927401	11	32481177	t	0.021	0.003	1.2E-11	0.0002	98.1
HDL-C	rs3824866	11	47258853	t	0.033	0.004	4.4E-19	0.0003	178.2
HDL-C	rs326214	11	47298360	a	0.025	0.003	1.0E-20	0.0003	162.9
HDL-C	rs10838738	11	47663049	a	0.019	0.002	1.6E-17	0.0002	103.0
HDL-C	rs61897793	11	61599347	a	0.024	0.004	3.7E-09	0.0002	98.3
HDL-C	rs174583	11	61609750	t	0.042	0.002	1.1E-68	0.0008	498.3
HDL-C	rs35169799	11	64031241	t	0.040	0.004	5.0E-22	0.0002	109.7
HDL-C	rs644740	11	65561468	t	0.016	0.002	3.9E-12	0.0001	78.0
HDL-C	rs622082	11	68703959	a	0.015	0.002	1.6E-13	0.0001	63.3
HDL-C	rs499974	11	75455021	a	0.025	0.003	1.5E-22	0.0002	116.6
HDL-C	rs746463	11	109995944	t	0.017	0.002	6.3E-14	0.0001	71.9
HDL-C	rs180349	11	116611827	a	0.017	0.003	1.8E-10	0.0001	75.4
HDL-C	rs10488698	11	116633947	a	0.045	0.004	1.2E-25	0.0002	131.4
HDL-C	rs964184	11	116648917	c	0.132	0.003	0.0E+00	0.0044	2730.3
HDL-C	rs138326449	11	116701354	a	0.716	0.026	2.1E-170	0.0031	1896.5
HDL-C	rs138407155	11	116707044	a	0.356	0.042	2.4E-17	0.0002	93.6
HDL-C	rs12281729	11	116838130	a	0.077	0.005	3.5E-49	0.0007	402.5
HDL-C	rs10892063	11	116896155	a	0.042	0.003	9.4E-45	0.0008	515.0
HDL-C	rs12269901	11	116973929	c	0.027	0.003	3.3E-23	0.0003	191.3
HDL-C	rs593245	11	117183650	t	0.015	0.002	2.0E-09	0.0001	64.9
HDL-C	rs7941030	11	122522375	t	0.023	0.002	3.3E-30	0.0002	151.4
HDL-C	rs4937122	11	126228659	t	0.032	0.004	6.0E-13	0.0002	93.7
HDL-C	rs7134375	12	20473758	a	0.022	0.002	6.2E-27	0.0002	139.1
HDL-C	rs7134150	12	20591332	a	0.031	0.005	6.3E-11	0.0001	76.1
HDL-C	rs4963975	12	26443030	a	0.020	0.003	2.3E-13	0.0001	88.5
HDL-C	rs1126930	12	49399132	c	0.037	0.006	2.9E-11	0.0001	52.5
HDL-C	rs784563	12	53866619	t	0.015	0.002	3.1E-11	0.0001	71.5
HDL-C	rs11613352	12	57792580	t	0.023	0.003	5.4E-17	0.0002	110.3
HDL-C	rs2373459	12	101873956	t	0.016	0.002	2.9E-11	0.0001	70.2
HDL-C	rs7298565	12	109937534	a	0.028	0.002	1.8E-44	0.0004	240.9
HDL-C	rs3184504	12	111884608	t	0.024	0.002	5.0E-31	0.0003	182.5
HDL-C	rs72650673	12	111885310	a	0.172	0.028	1.4E-09	0.0001	47.2
HDL-C	rs1183910	12	121420807	a	0.013	0.002	1.7E-09	0.0001	43.1
HDL-C	rs12369179	12	122963550	t	0.031	0.005	3.8E-10	0.0001	92.3
HDL-C	rs1798192	12	123200768	t	0.019	0.002	3.6E-21	0.0002	113.5
HDL-C	rs940904	12	123491572	a	0.023	0.003	1.8E-16	0.0002	121.0
HDL-C	rs4759375	12	123796238	t	0.049	0.004	6.0E-35	0.0004	257.2
HDL-C	rs12317176	12	124404718	t	0.022	0.002	5.2E-20	0.0002	141.9
HDL-C	rs863750	12	124505444	t	0.017	0.002	3.1E-13	0.0001	88.0
HDL-C	rs12230272	12	125083696	a	0.022	0.003	5.7E-11	0.0002	102.9
HDL-C	rs838880	12	125261593	t	0.025	0.002	6.3E-31	0.0003	173.3
HDL-C	rs10773105	12	125283766	t	0.026	0.002	3.6E-27	0.0003	201.1
HDL-C	rs150728540	12	125292360	a	0.476	0.058	1.6E-16	0.0001	83.8
HDL-C	rs5891	12	125299542	t	0.078	0.009	2.2E-18	0.0001	91.1
HDL-C	rs7306660	12	125327384	a	0.029	0.002	2.4E-32	0.0004	232.8

HDL-C	rs7298751	12	125380232	a	0.043	0.004	5.1E-32	0.0004	244.7
HDL-C	rs17532301	13	41609047	a	0.027	0.005	3.4E-09	0.0001	59.4
HDL-C	rs10483776	14	65914867	a	0.015	0.003	3.9E-09	0.0001	40.4
HDL-C	rs8021180	14	70783943	a	0.014	0.002	3.3E-09	0.0001	61.9
HDL-C	rs13379043	14	74250126	t	0.018	0.002	1.4E-15	0.0001	78.1
HDL-C	rs4983559	14	105277209	a	0.025	0.002	2.2E-36	0.0003	190.0
HDL-C	rs9944249	15	41847176	t	0.013	0.002	9.1E-09	0.0001	53.0
HDL-C	rs55707100	15	43820717	t	0.093	0.006	3.1E-51	0.0004	277.0
HDL-C	rs4622454	15	58646332	t	0.021	0.003	1.0E-14	0.0002	119.4
HDL-C	rs4775041	15	58674695	c	0.039	0.004	9.1E-24	0.0006	381.0
HDL-C	rs16940147	15	58676119	a	0.050	0.008	1.1E-09	0.0002	146.8
HDL-C	rs117901517	15	58678869	t	0.038	0.006	3.2E-10	0.0002	111.4
HDL-C	rs34718390	15	58682690	a	0.053	0.006	1.1E-18	0.0003	204.5
HDL-C	rs1532085	15	58683366	a	0.062	0.004	2.9E-68	0.0018	1137.3
HDL-C	rs7165077	15	58686809	t	0.027	0.004	8.5E-13	0.0002	104.1
HDL-C	rs6494003	15	58690048	a	0.093	0.011	5.0E-18	0.0004	247.8
HDL-C	rs16940233	15	58702941	t	0.048	0.006	7.0E-18	0.0003	198.5
HDL-C	rs12912415	15	58721447	a	0.040	0.004	2.6E-25	0.0004	246.5
HDL-C	rs6494006	15	58730571	t	0.044	0.006	1.7E-11	0.0002	145.5
HDL-C	rs17301746	15	58731395	t	0.088	0.010	8.6E-20	0.0003	169.8
HDL-C	rs936960	15	58751877	t	0.052	0.004	7.9E-32	0.0005	286.4
HDL-C	rs1869138	15	58779039	t	0.028	0.004	3.1E-11	0.0001	88.4
HDL-C	rs6083	15	58838010	a	0.016	0.003	5.0E-09	0.0001	77.0
HDL-C	rs17269397	15	58857378	a	0.026	0.003	6.4E-18	0.0003	208.7
HDL-C	rs424346	15	59010962	t	0.054	0.009	2.2E-09	0.0002	133.3
HDL-C	rs181181625	15	59377940	t	0.348	0.033	1.3E-26	0.0003	208.9
HDL-C	rs12148597	15	61955338	a	0.016	0.003	5.3E-09	0.0001	54.7
HDL-C	rs34317102	15	63414083	a	0.019	0.002	1.5E-16	0.0001	80.0
HDL-C	rs2228510	15	63970456	t	0.012	0.002	4.6E-09	0.0001	42.4
HDL-C	rs139271800	15	90214777	a	0.248	0.037	3.2E-11	0.0001	53.2
HDL-C	rs7202647	16	985891	t	0.017	0.003	4.6E-09	0.0001	70.1
HDL-C	rs12928822	16	11403893	t	0.018	0.003	1.6E-10	0.0001	53.3
HDL-C	rs1421085	16	53800954	t	0.028	0.002	3.4E-45	0.0004	236.0
HDL-C	rs12929759	16	54410447	a	0.018	0.003	3.0E-13	0.0001	89.4
HDL-C	rs4238772	16	55029160	a	0.029	0.005	1.2E-09	0.0001	84.2
HDL-C	rs8044753	16	56883438	a	0.025	0.003	3.9E-19	0.0003	189.0
HDL-C	rs36049418	16	56921840	a	0.066	0.009	1.4E-14	0.0002	101.5
HDL-C	rs11648751	16	56937262	t	0.030	0.004	1.0E-11	0.0002	117.6
HDL-C	rs37029	16	56949168	a	0.024	0.003	2.0E-21	0.0003	177.8
HDL-C	rs9989419	16	56985139	a	0.034	0.002	1.4E-41	0.0005	334.5
HDL-C	rs72786786	16	56985514	a	0.058	0.004	3.0E-40	0.0014	869.0
HDL-C	rs76315536	16	56986976	t	0.161	0.016	1.1E-24	0.0005	290.3
HDL-C	rs4783961	16	56994894	a	0.026	0.004	2.1E-12	0.0003	208.7
HDL-C	rs1800775	16	56995236	a	0.032	0.005	3.7E-11	0.0005	310.2
HDL-C	rs34065661	16	56995935	c	0.485	0.019	1.5E-138	0.0021	1273.2
HDL-C	rs7203984	16	56999258	a	0.074	0.005	2.2E-56	0.0018	1104.4
HDL-C	rs1532624	16	57005479	a	0.113	0.005	1.7E-121	0.0062	3859.4
HDL-C	rs12708974	16	57005550	t	0.086	0.005	4.5E-73	0.0015	956.9
HDL-C	rs5883	16	57007353	t	0.167	0.006	4.7E-186	0.0030	1877.3

HDL-C	rs289714	16	57007451	a	0.082	0.005	8.4E-70	0.0021	1312.3
HDL-C	rs5880	16	57015091	c	0.138	0.005	1.5E-147	0.0018	1113.2
HDL-C	rs506829	16	57383759	t	0.019	0.003	2.2E-09	0.0001	78.3
HDL-C	rs16962034	16	60419220	t	0.016	0.003	6.2E-09	0.0001	72.5
HDL-C	rs7202185	16	67714560	a	0.037	0.005	3.4E-14	0.0002	115.6
HDL-C	rs16942887	16	67928042	a	0.074	0.003	3.1E-134	0.0012	765.1
HDL-C	rs1345868	16	71669624	a	0.014	0.003	7.8E-09	0.0001	55.0
HDL-C	rs12443634	16	81524274	a	0.031	0.003	2.0E-25	0.0004	244.8
HDL-C	rs3803800	17	7462969	a	0.013	0.002	5.7E-09	0.0001	40.4
HDL-C	rs2071379	17	26695832	a	0.014	0.002	5.1E-10	0.0001	61.3
HDL-C	rs11078915	17	37715426	t	0.027	0.004	6.4E-13	0.0003	157.4
HDL-C	rs11869286	17	37813856	c	0.024	0.003	1.8E-18	0.0003	161.7
HDL-C	rs11556624	17	37815304	c	0.087	0.007	8.9E-37	0.0003	213.2
HDL-C	rs4794822	17	38156712	t	0.018	0.002	1.9E-16	0.0001	91.1
HDL-C	rs72836561	17	41926126	t	0.187	0.006	7.6E-228	0.0021	1293.7
HDL-C	rs231539	17	41942109	t	0.036	0.004	4.2E-23	0.0004	221.1
HDL-C	rs17679445	17	46022065	a	0.030	0.004	6.1E-13	0.0001	66.0
HDL-C	rs11652146	17	47422363	a	0.017	0.003	6.6E-12	0.0001	78.1
HDL-C	rs12602912	17	65870073	t	0.018	0.002	2.2E-13	0.0001	59.4
HDL-C	rs10852765	17	66884879	a	0.016	0.002	1.1E-11	0.0001	73.8
HDL-C	rs2292642	17	76395430	t	0.032	0.002	1.6E-55	0.0005	297.9
HDL-C	rs2289750	17	76437343	a	0.028	0.005	6.5E-09	0.0001	77.2
HDL-C	rs1788783	18	21161134	t	0.015	0.002	7.0E-11	0.0001	69.4
HDL-C	rs8093249	18	47097398	a	0.034	0.004	9.5E-22	0.0003	184.7
HDL-C	rs77960347	18	47109955	a	0.250	0.009	7.7E-166	0.0017	1033.2
HDL-C	rs117623631	18	47113165	t	0.343	0.025	1.0E-41	0.0005	333.8
HDL-C	rs3786248	18	47118219	t	0.059	0.006	2.8E-26	0.0004	221.8
HDL-C	rs7241918	18	47160953	t	0.074	0.003	4.3E-120	0.0015	902.9
HDL-C	rs4939886	18	47176793	a	0.020	0.003	8.8E-10	0.0002	110.5
HDL-C	rs11660468	18	47209143	t	0.025	0.002	1.2E-25	0.0003	190.2
HDL-C	rs9956279	18	57942799	t	0.017	0.003	1.0E-10	0.0001	71.5
HDL-C	rs12975319	19	3414088	a	0.015	0.003	3.7E-09	0.0001	62.1
HDL-C	rs10408844	19	7244884	t	0.018	0.003	5.2E-10	0.0001	63.6
HDL-C	rs4804833	19	7970635	a	0.015	0.002	4.9E-10	0.0001	66.5
HDL-C	rs116843064	19	8429323	a	0.246	0.007	1.3E-252	0.0031	1913.2
HDL-C	rs2913968	19	8467235	t	0.017	0.003	2.0E-10	0.0001	68.3
HDL-C	rs6511720	19	11202306	t	0.020	0.003	1.1E-10	0.0001	49.4
HDL-C	rs17616661	19	11303554	a	0.026	0.004	1.2E-12	0.0001	62.1
HDL-C	rs737337	19	11347493	t	0.057	0.003	1.2E-62	0.0006	375.5
HDL-C	rs2111504	19	32917455	a	0.017	0.003	1.4E-10	0.0001	48.1
HDL-C	rs731839	19	33899065	a	0.018	0.002	2.4E-17	0.0001	89.5
HDL-C	rs2075650	19	45395619	a	0.038	0.003	7.7E-28	0.0003	209.7
HDL-C	rs77301115	19	45396973	a	0.066	0.009	2.0E-13	0.0002	134.3
HDL-C	rs7412	19	45412079	t	0.086	0.004	3.0E-85	0.0011	650.4
HDL-C	rs439401	19	45414451	t	0.014	0.002	7.9E-11	0.0001	58.3
HDL-C	rs4420638	19	45422946	a	0.042	0.004	2.9E-29	0.0005	318.0
HDL-C	rs5167	19	45448465	t	0.038	0.002	2.4E-78	0.0007	405.2
HDL-C	rs8111071	19	46307406	a	0.028	0.004	1.1E-14	0.0001	72.3
HDL-C	rs2303108	19	47589895	t	0.014	0.002	7.9E-11	0.0001	49.7

HDL-C	rs3752125	19	52327784	t	0.020	0.003	3.4E-16	0.0002	105.8
HDL-C	rs12975366	19	54759361	t	0.021	0.002	1.4E-19	0.0002	132.8
HDL-C	rs386000	19	54792761	c	0.044	0.003	5.7E-48	0.0006	395.1
HDL-C	rs12979085	19	54837165	a	0.020	0.003	1.1E-12	0.0002	105.2
HDL-C	rs1132274	20	17596155	a	0.016	0.003	3.9E-09	0.0001	42.6
HDL-C	rs2268086	20	32648738	a	0.014	0.002	3.4E-09	0.0001	60.2
HDL-C	rs1415771	20	33734493	a	0.013	0.002	1.9E-10	0.0001	51.3
HDL-C	rs1800961	20	43042364	t	0.142	0.006	5.1E-137	0.0012	745.5
HDL-C	rs3827066	20	44586023	t	0.050	0.004	4.2E-37	0.0007	413.4
HDL-C	rs8123864	20	44598670	t	0.048	0.003	2.2E-55	0.0010	643.8
HDL-C	rs1211644	20	45592842	t	0.018	0.003	3.2E-09	0.0001	73.7
HDL-C	rs11700063	20	46153148	a	0.021	0.003	3.3E-14	0.0002	101.2
HDL-C	rs4239651	20	46340596	t	0.021	0.003	8.4E-10	0.0001	82.2
HDL-C	rs6025606	20	56098733	t	0.012	0.002	2.9E-09	0.0001	40.6
HDL-C	rs310631	20	62196253	a	0.013	0.002	7.4E-09	0.0001	52.9
HDL-C	rs6062343	20	62695931	a	0.014	0.002	7.6E-12	0.0001	57.7
HDL-C	rs235314	21	46271452	t	0.015	0.002	7.2E-11	0.0001	69.0
HDL-C	rs12482088	21	46901973	a	0.019	0.003	5.0E-10	0.0001	77.3
HDL-C	rs181362	22	21932068	t	0.030	0.002	1.3E-36	0.0003	202.2
HDL-C	rs4823006	22	29451671	a	0.013	0.002	9.1E-11	0.0001	51.4
HDL-C	rs17738540	22	30888527	t	0.018	0.002	1.6E-14	0.0001	71.1
HDL-C	rs738322	22	38569006	a	0.020	0.002	4.2E-23	0.0002	121.0
HDL-C	rs738409	22	44324727	c	0.016	0.002	1.5E-11	0.0001	51.9
LDL-C	rs2992753	1	18808292	a	0.012	0.002	3.9E-09	0.0001	44.0
LDL-C	rs35172831	1	25850206	t	0.019	0.003	8.1E-12	0.0002	111.8
LDL-C	rs12748152	1	27138393	t	0.026	0.004	7.6E-12	0.0001	57.3
LDL-C	rs17111483	1	55485098	t	0.040	0.005	1.9E-16	0.0003	190.5
LDL-C	rs11206510	1	55496039	t	0.068	0.003	2.7E-111	0.0013	832.9
LDL-C	rs2479409	1	55504650	a	0.022	0.002	1.1E-22	0.0002	140.7
LDL-C	rs11583680	1	55505668	t	0.027	0.004	1.9E-12	0.0002	105.8
LDL-C	rs10888896	1	55509213	c	0.029	0.003	1.0E-20	0.0003	200.2
LDL-C	rs693668	1	55521109	a	0.029	0.004	4.5E-15	0.0004	232.2
LDL-C	rs562556	1	55524237	a	0.130	0.008	4.9E-61	0.0047	2926.2
LDL-C	rs61739739	1	55548991	t	0.080	0.011	1.7E-12	0.0001	81.2
LDL-C	rs1165222	1	55638075	a	0.135	0.008	1.7E-63	0.0047	2908.7
LDL-C	rs1475701	1	55638546	t	0.068	0.006	1.8E-26	0.0003	211.8
LDL-C	rs7551981	1	55719166	t	0.030	0.003	7.2E-27	0.0004	258.6
LDL-C	rs10489488	1	55792722	a	0.093	0.011	5.3E-17	0.0002	152.8
LDL-C	rs12742537	1	63346976	a	0.015	0.002	2.5E-14	0.0001	70.2
LDL-C	rs10874746	1	93323971	t	0.015	0.002	2.3E-13	0.0001	66.4
LDL-C	rs1730859	1	107617707	a	0.019	0.003	2.6E-13	0.0002	98.5
LDL-C	rs12740374	1	109817590	t	0.160	0.002	0.0E+00	0.0086	5379.2
LDL-C	rs4745	1	155106227	a	0.012	0.002	5.7E-10	0.0001	47.5
LDL-C	rs867772	1	220972343	a	0.026	0.003	5.8E-19	0.0003	173.2
LDL-C	rs558971	1	234853406	a	0.036	0.002	1.2E-51	0.0007	406.6
LDL-C	rs1473886	2	20368519	t	0.015	0.002	2.1E-10	0.0001	65.9
LDL-C	rs12710745	2	21112689	a	0.020	0.003	1.0E-14	0.0002	119.0
LDL-C	rs6547409	2	21190209	t	0.095	0.006	8.9E-62	0.0009	573.7
LDL-C	rs1801702	2	21225485	c	0.097	0.007	1.5E-47	0.0005	281.4

LDL-C	rs1042023	2	21229446	c	0.086	0.011	5.5E-15	0.0001	85.9
LDL-C	rs12713843	2	21238367	t	0.188	0.016	8.2E-33	0.0003	191.3
LDL-C	rs12713844	2	21238413	c	0.074	0.011	5.0E-12	0.0001	63.7
LDL-C	rs679899	2	21250914	a	0.029	0.002	7.0E-37	0.0004	267.5
LDL-C	rs515135	2	21286057	t	0.088	0.003	1.4E-202	0.0024	1489.3
LDL-C	rs62122515	2	21295227	a	0.026	0.003	8.2E-14	0.0003	183.0
LDL-C	rs4635554	2	21389659	t	0.022	0.003	2.9E-18	0.0002	133.9
LDL-C	rs1260327	2	27711893	a	0.015	0.002	2.1E-11	0.0001	67.5
LDL-C	rs814295	2	27743215	a	0.031	0.003	1.2E-19	0.0002	153.4
LDL-C	rs11556157	2	44028013	a	0.020	0.002	2.0E-18	0.0002	94.7
LDL-C	rs72796748	2	44080310	t	0.059	0.007	2.6E-19	0.0003	189.1
LDL-C	rs4077440	2	44081042	t	0.117	0.005	1.1E-122	0.0067	4167.0
LDL-C	rs6718187	2	44082362	a	0.070	0.005	2.0E-43	0.0024	1501.7
LDL-C	rs4148218	2	44099582	a	0.060	0.003	7.7E-70	0.0011	676.7
LDL-C	rs11125936	2	62871225	t	0.025	0.003	1.1E-13	0.0001	66.5
LDL-C	rs10185855	2	101642260	a	0.014	0.002	8.9E-09	0.0001	55.2
LDL-C	rs10490626	2	118835841	a	0.045	0.004	2.4E-30	0.0003	168.7
LDL-C	rs1808458	2	118879253	t	0.031	0.005	2.6E-10	0.0001	74.7
LDL-C	rs6706968	2	121310269	a	0.023	0.003	3.9E-16	0.0003	157.6
LDL-C	rs2198562	2	158465673	c	0.035	0.006	2.9E-10	0.0001	68.8
LDL-C	rs2287623	2	169830155	a	0.018	0.002	1.4E-19	0.0002	97.5
LDL-C	rs6435161	2	203519783	t	0.024	0.003	4.3E-21	0.0002	146.1
LDL-C	rs1048013	2	204154552	t	0.012	0.002	8.8E-10	0.0001	46.2
LDL-C	rs887829	2	234668570	t	0.021	0.002	1.7E-22	0.0002	115.3
LDL-C	rs7616006	3	12267648	a	0.022	0.002	2.3E-20	0.0002	149.7
LDL-C	rs7640978	3	32533010	t	0.032	0.004	4.7E-20	0.0002	104.4
LDL-C	rs2251219	3	52584787	t	0.014	0.002	7.6E-11	0.0001	54.9
LDL-C	rs13315871	3	58381287	a	0.032	0.004	3.2E-19	0.0002	101.4
LDL-C	rs1979848	3	132165178	a	0.026	0.004	2.3E-09	0.0001	69.6
LDL-C	rs10513551	3	160086055	t	0.015	0.002	1.4E-10	0.0001	73.0
LDL-C	rs3748034	4	3446091	t	0.018	0.003	2.4E-09	0.0001	49.1
LDL-C	rs3816873	4	100504664	t	0.014	0.002	4.1E-09	0.0001	43.3
LDL-C	rs13107325	4	103188709	t	0.029	0.004	9.9E-13	0.0001	76.5
LDL-C	rs870992	5	52193237	a	0.027	0.004	1.8E-10	0.0001	71.5
LDL-C	rs10062361	5	74565153	t	0.025	0.003	1.9E-13	0.0002	132.1
LDL-C	rs3846662	5	74651084	a	0.057	0.002	2.1E-131	0.0016	980.6
LDL-C	rs11955819	5	74782412	a	0.058	0.008	4.8E-13	0.0002	108.9
LDL-C	rs4530754	5	122855416	a	0.016	0.002	1.8E-14	0.0001	79.1
LDL-C	rs10065787	5	131436486	t	0.019	0.003	2.2E-09	0.0002	109.2
LDL-C	rs2522056	5	131801726	a	0.018	0.002	1.2E-13	0.0001	70.1
LDL-C	rs4704825	5	156382308	a	0.028	0.003	5.1E-25	0.0004	221.9
LDL-C	rs2235215	6	16131156	t	0.025	0.003	1.8E-18	0.0003	163.8
LDL-C	rs1800562	6	26093141	a	0.049	0.004	6.6E-29	0.0003	159.9
LDL-C	rs129128	6	26125342	t	0.021	0.004	3.4E-09	0.0001	62.5
LDL-C	rs2249741	6	31240712	a	0.020	0.003	7.8E-14	0.0002	126.2
LDL-C	rs13192471	6	32671103	t	0.034	0.003	5.8E-33	0.0003	179.2
LDL-C	rs3800406	6	35133074	a	0.028	0.004	1.1E-12	0.0002	95.6
LDL-C	rs1129187	6	42932200	t	0.012	0.002	8.5E-10	0.0001	45.9

LDL-C	rs2239619	6	52453220	a	0.016	0.002	4.0E-14	0.0001	73.3
LDL-C	rs17789218	6	100600097	t	0.022	0.003	4.0E-16	0.0002	109.7
LDL-C	rs9390698	6	101296389	a	0.013	0.002	1.3E-10	0.0001	50.0
LDL-C	rs3798236	6	116309649	t	0.018	0.003	1.8E-13	0.0002	93.5
LDL-C	rs9376090	6	135411228	t	0.028	0.002	5.6E-33	0.0003	172.8
LDL-C	rs1044418	6	139229872	t	0.018	0.003	1.2E-10	0.0001	52.6
LDL-C	rs12208357	6	160543148	t	0.062	0.004	2.7E-52	0.0005	319.8
LDL-C	rs34130495	6	160560824	a	0.048	0.007	2.5E-13	0.0001	66.9
LDL-C	rs62440901	6	160569068	t	0.036	0.004	1.1E-20	0.0003	199.5
LDL-C	rs3798220	6	160961137	t	0.136	0.008	1.2E-64	0.0007	410.3
LDL-C	rs10455872	6	161010118	a	0.088	0.006	4.6E-54	0.0010	610.7
LDL-C	rs12175867	6	161019138	t	0.025	0.003	1.8E-14	0.0002	145.5
LDL-C	rs1652507	6	161082461	t	0.027	0.003	1.2E-19	0.0002	125.7
LDL-C	rs10263252	7	1049949	a	0.023	0.003	6.3E-12	0.0002	107.4
LDL-C	rs1997243	7	1083777	a	0.016	0.003	6.7E-09	0.0001	43.9
LDL-C	rs144787122	7	2296552	a	0.104	0.018	4.0E-09	0.0001	44.1
LDL-C	rs2282889	7	21476188	a	0.016	0.003	5.0E-09	0.0001	80.4
LDL-C	rs12670798	7	21607352	t	0.029	0.002	1.4E-34	0.0003	196.1
LDL-C	rs4722551	7	25991826	t	0.039	0.003	3.2E-42	0.0004	256.4
LDL-C	rs2391211	7	26008233	t	0.023	0.004	7.7E-11	0.0002	106.7
LDL-C	rs4302748	7	36191699	a	0.015	0.003	1.2E-09	0.0001	44.7
LDL-C	rs35803101	7	44578500	a	0.139	0.017	1.1E-15	0.0001	82.8
LDL-C	rs10260606	7	44584551	c	0.037	0.003	1.2E-32	0.0004	260.1
LDL-C	rs1014283	7	87076587	a	0.019	0.003	2.0E-09	0.0001	63.9
LDL-C	rs330093	8	9175958	c	0.029	0.003	2.0E-20	0.0003	187.1
LDL-C	rs11774381	8	9183339	t	0.029	0.003	1.9E-24	0.0003	203.9
LDL-C	rs11782386	8	9201787	t	0.025	0.003	8.5E-13	0.0001	72.3
LDL-C	rs4921914	8	18272438	t	0.018	0.002	4.9E-14	0.0001	73.3
LDL-C	rs9298506	8	55437524	a	0.022	0.003	8.4E-16	0.0002	92.9
LDL-C	rs2081687	8	59388565	t	0.027	0.002	2.5E-37	0.0003	202.4
LDL-C	rs2737245	8	116658583	t	0.018	0.003	2.7E-09	0.0001	76.6
LDL-C	rs2954029	8	126490972	a	0.024	0.003	4.1E-18	0.0003	178.7
LDL-C	rs4870941	8	126498828	c	0.044	0.004	3.3E-33	0.0007	422.8
LDL-C	rs2954038	8	126507389	a	0.037	0.003	8.5E-32	0.0006	344.9
LDL-C	rs3780181	9	2640759	a	0.033	0.004	4.1E-17	0.0001	89.4
LDL-C	rs67710536	9	19376255	a	0.027	0.003	3.7E-15	0.0001	80.5
LDL-C	rs10757272	9	22088260	t	0.020	0.003	2.9E-10	0.0002	117.8
LDL-C	rs3905000	9	107657070	a	0.018	0.003	6.7E-10	0.0001	51.0
LDL-C	rs635634	9	136155000	t	0.075	0.003	1.5E-182	0.0018	1094.2
LDL-C	rs3812594	9	139368953	a	0.014	0.002	1.6E-09	0.0001	44.9
LDL-C	rs7080366	10	17254832	t	0.019	0.003	8.5E-15	0.0002	115.9
LDL-C	rs41274050	10	52573772	t	0.077	0.011	4.8E-12	0.0002	142.2
LDL-C	rs2068888	10	94839642	a	0.017	0.002	1.1E-17	0.0001	89.7
LDL-C	rs2274224	10	96039597	c	0.014	0.002	3.0E-09	0.0001	61.7
LDL-C	rs2792751	10	113940329	t	0.026	0.002	1.1E-32	0.0003	176.5
LDL-C	rs1891110	10	124610027	a	0.021	0.002	3.0E-26	0.0002	137.3
LDL-C	rs4752805	11	48018355	a	0.015	0.002	7.0E-10	0.0001	50.7
LDL-C	rs174449	11	61640379	a	0.027	0.003	1.1E-26	0.0003	204.8
LDL-C	rs2521567	11	61699055	a	0.015	0.002	5.9E-10	0.0001	66.6

LDL-C	rs3816492	11	66297363	t	0.017	0.002	3.4E-12	0.0001	61.4
LDL-C	rs11603023	11	118486067	t	0.013	0.002	3.0E-10	0.0001	47.9
LDL-C	rs7941030	11	122522375	t	0.014	0.002	5.7E-12	0.0001	55.0
LDL-C	rs10893500	11	126250774	t	0.043	0.003	4.0E-36	0.0004	271.7
LDL-C	rs1521516	12	51055708	t	0.016	0.003	1.2E-10	0.0001	73.2
LDL-C	rs61754230	12	72179446	t	0.052	0.008	2.3E-11	0.0001	55.4
LDL-C	rs3184504	12	111884608	t	0.026	0.002	1.4E-34	0.0003	204.5
LDL-C	rs1169288	12	121416650	a	0.035	0.002	1.1E-55	0.0005	326.9
LDL-C	rs10773003	12	123775127	a	0.024	0.004	3.1E-09	0.0001	56.7
LDL-C	rs11571836	13	32973439	a	0.021	0.003	4.1E-10	0.0002	94.1
LDL-C	rs3742318	13	33017043	t	0.020	0.003	9.2E-16	0.0001	78.6
LDL-C	rs4773173	13	111025118	a	0.016	0.003	5.4E-11	0.0001	75.4
LDL-C	rs9646133	14	71096344	t	0.019	0.002	2.0E-20	0.0002	101.4
LDL-C	rs13379043	14	74250126	t	0.014	0.002	5.5E-11	0.0001	52.7
LDL-C	rs28929474	14	94844947	t	0.071	0.008	5.0E-19	0.0002	102.5
LDL-C	rs3812945	15	75289722	t	0.015	0.002	4.1E-10	0.0001	68.7
LDL-C	rs35259348	16	72003952	c	0.020	0.003	7.7E-13	0.0001	90.1
LDL-C	rs7197453	16	72079127	c	0.025	0.004	1.5E-12	0.0003	177.3
LDL-C	rs217181	16	72114002	t	0.049	0.003	1.3E-48	0.0008	492.6
LDL-C	rs9302635	16	72144174	t	0.055	0.004	1.9E-41	0.0009	559.9
LDL-C	rs28555129	16	83984776	a	0.013	0.002	1.1E-09	0.0001	48.7
LDL-C	rs8069974	17	4670972	c	0.015	0.003	3.4E-09	0.0001	62.2
LDL-C	rs314253	17	7091650	t	0.020	0.002	4.6E-22	0.0002	115.1
LDL-C	rs871841	17	8216468	t	0.015	0.002	2.5E-13	0.0001	66.1
LDL-C	rs6502640	17	18122485	a	0.019	0.003	3.6E-09	0.0001	75.4
LDL-C	rs704	17	26694861	a	0.020	0.002	2.2E-23	0.0002	124.4
LDL-C	rs12601110	17	27035335	a	0.027	0.005	4.9E-09	0.0001	71.0
LDL-C	rs1487971	17	28572753	t	0.016	0.002	8.3E-11	0.0001	71.9
LDL-C	rs11080150	17	29629326	a	0.015	0.002	2.3E-11	0.0001	57.7
LDL-C	rs72836561	17	41926126	t	0.037	0.006	2.5E-10	0.0001	51.2
LDL-C	rs4968318	17	45451894	a	0.022	0.002	1.7E-27	0.0002	142.7
LDL-C	rs118004742	17	45468858	t	0.029	0.005	2.2E-09	0.0001	52.4
LDL-C	rs12939848	17	65370808	t	0.014	0.002	5.6E-09	0.0001	56.8
LDL-C	rs12602912	17	65870073	t	0.016	0.002	7.2E-11	0.0001	46.9
LDL-C	rs77542162	17	67081278	a	0.177	0.009	1.9E-84	0.0011	667.1
LDL-C	rs4968839	17	67125840	t	0.039	0.003	5.8E-47	0.0006	395.5
LDL-C	rs72852601	17	67149972	t	0.048	0.008	2.5E-09	0.0001	48.2
LDL-C	rs2886232	17	67150176	t	0.041	0.005	6.6E-17	0.0003	202.3
LDL-C	rs4485425	17	73767437	a	0.019	0.002	2.2E-16	0.0002	94.0
LDL-C	rs4129767	17	76403984	a	0.016	0.002	5.1E-15	0.0001	75.7
LDL-C	rs77960347	18	47109955	a	0.080	0.009	1.1E-17	0.0002	104.4
LDL-C	rs7241918	18	47160953	t	0.019	0.003	9.0E-12	0.0001	60.0
LDL-C	rs941408	19	2814181	t	0.016	0.003	3.7E-10	0.0001	67.5
LDL-C	rs1982074	19	10668673	a	0.023	0.003	3.2E-18	0.0002	97.1
LDL-C	rs892010	19	11038843	c	0.040	0.005	2.3E-13	0.0002	120.0
LDL-C	rs10417443	19	11129429	c	0.032	0.003	1.5E-31	0.0005	322.9
LDL-C	rs1122608	19	11163601	t	0.048	0.003	9.6E-63	0.0008	511.3
LDL-C	rs4300767	19	11163689	a	0.095	0.006	3.8E-63	0.0017	1063.1
LDL-C	rs6511721	19	11206575	a	0.037	0.003	1.1E-31	0.0007	425.7

LDL-C	rs73015030	19	11207516	a	0.079	0.009	4.8E-20	0.0004	223.7
LDL-C	rs3745677	19	11211077	a	0.077	0.008	4.0E-20	0.0007	432.9
LDL-C	rs11669576	19	11222300	a	0.064	0.007	3.6E-22	0.0004	238.5
LDL-C	rs45508991	19	11233886	t	0.106	0.015	3.5E-13	0.0001	82.0
LDL-C	rs5927	19	11233941	a	0.030	0.004	7.9E-15	0.0003	208.9
LDL-C	rs2569538	19	11238548	a	0.061	0.007	2.1E-20	0.0006	389.1
LDL-C	rs892115	19	11263650	t	0.023	0.004	2.3E-10	0.0002	143.1
LDL-C	rs6511727	19	11315817	t	0.020	0.003	1.8E-15	0.0002	119.4
LDL-C	rs4804579	19	11358700	t	0.024	0.004	2.8E-10	0.0002	99.9
LDL-C	rs58542926	19	19379549	t	0.098	0.004	7.5E-146	0.0013	816.7
LDL-C	rs150090162	19	44536189	a	0.161	0.019	1.0E-16	0.0002	115.4
LDL-C	rs8103315	19	45254168	a	0.028	0.004	2.0E-11	0.0002	102.2
LDL-C	rs35106910	19	45284266	a	0.032	0.005	1.3E-11	0.0001	58.6
LDL-C	rs1135062	19	45322744	a	0.017	0.002	4.5E-13	0.0001	73.4
LDL-C	rs3852856	19	45361574	a	0.061	0.005	5.9E-38	0.0012	747.4
LDL-C	rs12610605	19	45370838	a	0.126	0.005	4.9E-164	0.0043	2678.6
LDL-C	rs8104483	19	45372354	t	0.087	0.004	3.4E-116	0.0031	1927.4
LDL-C	rs6859	19	45382034	a	0.078	0.003	8.7E-132	0.0030	1842.4
LDL-C	rs11669338	19	45382984	t	0.050	0.006	8.0E-16	0.0004	255.7
LDL-C	rs3852861	19	45383061	t	0.056	0.004	1.1E-45	0.0015	950.4
LDL-C	rs187706273	19	45385488	a	0.108	0.016	4.4E-11	0.0001	76.1
LDL-C	rs157580	19	45395266	a	0.075	0.003	2.2E-113	0.0027	1659.5
LDL-C	rs157582	19	45396219	t	0.032	0.005	7.3E-11	0.0004	226.2
LDL-C	rs115881343	19	45403216	t	0.195	0.009	6.8E-94	0.0018	1136.5
LDL-C	rs10119	19	45406673	a	0.067	0.004	1.9E-53	0.0018	1103.7
LDL-C	rs405509	19	45408836	t	0.173	0.004	0.0E+00	0.0149	9325.2
LDL-C	rs769450	19	45410444	a	0.060	0.005	2.9E-37	0.0018	1093.3
LDL-C	rs769452	19	45411110	t	0.149	0.020	4.3E-14	0.0001	71.4
LDL-C	rs439401	19	45414451	t	0.029	0.003	4.6E-22	0.0004	249.3
LDL-C	rs59325138	19	45416291	t	0.098	0.004	1.0E-119	0.0046	2845.8
LDL-C	rs732841	19	46207810	a	0.041	0.006	6.0E-13	0.0002	103.2
LDL-C	rs17651629	19	46406463	t	0.032	0.004	1.3E-17	0.0002	127.7
LDL-C	rs492602	19	49206417	a	0.028	0.002	4.3E-40	0.0004	238.7
LDL-C	rs641738	19	54676763	t	0.014	0.002	1.0E-09	0.0001	59.7
LDL-C	rs35350976	19	59023174	a	0.017	0.003	7.2E-09	0.0001	51.8
LDL-C	rs2143544	20	17789221	t	0.016	0.003	5.5E-09	0.0001	80.9
LDL-C	rs2745865	20	17847735	t	0.039	0.004	2.1E-26	0.0004	239.8
LDL-C	rs6058302	20	34290037	t	0.027	0.003	1.8E-15	0.0002	106.0
LDL-C	rs6016373	20	39154095	a	0.023	0.002	9.2E-30	0.0002	150.9
LDL-C	rs926663	20	39245775	a	0.014	0.003	8.3E-09	0.0001	62.1
LDL-C	rs6072328	20	39913996	t	0.026	0.003	1.7E-22	0.0003	203.1
LDL-C	rs6062343	20	62695931	a	0.015	0.002	2.9E-13	0.0001	65.6
LDL-C	rs2833487	21	33087863	a	0.035	0.006	4.3E-10	0.0001	71.1
LDL-C	rs2183573	21	40574305	a	0.014	0.002	4.0E-10	0.0001	61.7
LDL-C	rs138777	22	35711098	a	0.013	0.002	2.3E-09	0.0001	45.0
LDL-C	rs738409	22	44324727	c	0.015	0.002	6.8E-10	0.0001	47.2
LDL-C	rs13268	22	45996298	a	0.042	0.007	3.6E-10	0.0001	48.6
TG	rs1077514	1	23766233	t	0.021	0.003	2.4E-14	0.0001	71.0
TG	rs16826069	1	39797055	a	0.024	0.002	5.4E-23	0.0002	116.7

TG	rs2055491	1	50852769	t	0.012	0.002	3.6E-09	0.0001	43.0
TG	rs10889353	1	63118196	a	0.075	0.002	2.0E-280	0.0025	1552.9
TG	rs2613503	1	72839774	a	0.020	0.003	1.5E-11	0.0001	74.0
TG	rs12740374	1	109817590	t	0.015	0.002	1.8E-10	0.0001	48.9
TG	rs12043350	1	153854380	t	0.015	0.003	9.4E-10	0.0001	61.4
TG	rs1011731	1	172346548	a	0.013	0.002	4.1E-11	0.0001	52.6
TG	rs78444298	1	184672098	a	0.052	0.009	3.0E-09	0.0001	51.3
TG	rs2821231	1	203518382	t	0.016	0.003	3.9E-09	0.0001	77.8
TG	rs765751	1	219669226	t	0.020	0.002	2.3E-17	0.0002	109.9
TG	rs10489615	1	230304988	a	0.039	0.002	3.2E-85	0.0007	461.5
TG	rs2273967	1	230415293	t	0.018	0.003	8.8E-11	0.0001	69.0
TG	rs1473886	2	20368519	t	0.017	0.002	1.2E-13	0.0001	89.8
TG	rs1801701	2	21228827	t	0.030	0.004	2.2E-17	0.0001	89.0
TG	rs676210	2	21231524	a	0.076	0.002	3.7E-211	0.0020	1208.9
TG	rs541041	2	21294975	a	0.023	0.003	1.2E-18	0.0002	102.0
TG	rs3208747	2	24431127	t	0.150	0.022	6.3E-12	0.0001	66.5
TG	rs1049817	2	27550967	a	0.046	0.003	5.2E-49	0.0010	623.5
TG	rs11689803	2	27566520	a	0.021	0.004	1.0E-09	0.0002	111.0
TG	rs11891554	2	27613617	a	0.096	0.006	7.2E-63	0.0008	472.4
TG	rs79593977	2	27702663	a	0.269	0.029	2.0E-20	0.0013	806.8
TG	rs780090	2	27718474	t	0.048	0.005	1.9E-23	0.0004	237.5
TG	rs147073127	2	27726437	a	0.213	0.019	2.7E-28	0.0003	162.7
TG	rs814295	2	27743215	a	0.077	0.004	9.3E-90	0.0016	982.0
TG	rs1919128	2	27801759	a	0.046	0.003	1.4E-47	0.0008	499.0
TG	rs115289288	2	28006500	t	0.222	0.019	1.4E-31	0.0022	1336.3
TG	rs4245791	2	44074431	t	0.017	0.002	1.1E-14	0.0001	75.1
TG	rs1861410	2	58933591	t	0.016	0.003	2.0E-09	0.0001	74.3
TG	rs2723062	2	65280220	a	0.023	0.003	1.6E-17	0.0002	151.0
TG	rs2049019	2	66671858	a	0.014	0.002	9.5E-09	0.0001	50.4
TG	rs13396091	2	146371961	a	0.014	0.002	2.0E-09	0.0001	57.8
TG	rs13389219	2	165528876	t	0.035	0.002	2.1E-62	0.0006	364.9
TG	rs16849863	2	165728290	t	0.056	0.008	1.6E-12	0.0001	71.7
TG	rs3769823	2	202122995	a	0.014	0.002	3.2E-10	0.0001	50.0
TG	rs6435161	2	203519783	t	0.015	0.002	1.4E-09	0.0001	55.5
TG	rs1344642	2	219555262	a	0.013	0.002	5.1E-11	0.0001	52.5
TG	rs2943650	2	227105921	t	0.042	0.003	2.9E-48	0.0008	523.1
TG	rs1801282	3	12393125	c	0.034	0.003	3.7E-26	0.0002	149.4
TG	rs17819328	3	12489342	t	0.025	0.002	3.3E-26	0.0003	191.2
TG	rs13326165	3	52532118	a	0.017	0.003	1.4E-11	0.0001	56.1
TG	rs7621025	3	136272246	t	0.021	0.003	4.1E-10	0.0002	96.8
TG	rs4683438	3	142652559	t	0.017	0.002	8.1E-13	0.0001	82.8
TG	rs382534	3	155547274	t	0.015	0.003	4.5E-09	0.0001	54.4
TG	rs9822326	3	156803565	a	0.016	0.002	3.8E-11	0.0001	73.7
TG	rs10513687	3	170725730	t	0.022	0.003	6.7E-11	0.0001	67.4
TG	rs17600346	3	172223982	t	0.046	0.007	3.3E-11	0.0002	101.7
TG	rs6599389	4	939113	a	0.022	0.004	6.9E-09	0.0001	45.5
TG	rs11248060	4	964359	t	0.022	0.003	6.1E-13	0.0001	64.6
TG	rs3748034	4	3446091	t	0.028	0.003	2.9E-19	0.0002	119.8

TG	rs16844401	4	3449652	a	0.032	0.004	1.0E-14	0.0001	80.5
TG	rs6831256	4	3473139	a	0.014	0.002	1.7E-11	0.0001	60.4
TG	rs9884830	4	26027797	t	0.019	0.003	2.4E-10	0.0001	62.0
TG	rs1037814	4	88049850	t	0.024	0.002	2.8E-24	0.0003	177.9
TG	rs10029254	4	88160140	t	0.021	0.003	1.1E-13	0.0002	93.7
TG	rs13133548	4	89740128	a	0.012	0.002	3.3E-09	0.0001	43.2
TG	rs1126673	4	100045616	t	0.018	0.002	5.6E-16	0.0001	81.2
TG	rs13107325	4	103188709	t	0.033	0.004	1.7E-15	0.0002	95.3
TG	rs41278045	4	110638764	a	0.199	0.029	4.0E-12	0.0001	58.7
TG	rs6054	4	155489608	t	0.123	0.018	7.2E-12	0.0001	67.4
TG	rs6855363	4	157670537	t	0.017	0.002	5.9E-12	0.0001	74.3
TG	rs4311394	5	53300662	a	0.020	0.002	3.4E-20	0.0002	98.2
TG	rs459193	5	55806751	a	0.035	0.002	3.7E-52	0.0005	300.7
TG	rs2448428	5	55844049	t	0.015	0.002	4.3E-10	0.0001	68.3
TG	rs9686661	5	55861786	t	0.044	0.003	2.3E-67	0.0006	374.1
TG	rs4976033	5	67714246	a	0.016	0.002	1.2E-15	0.0001	78.1
TG	rs1045241	5	118729286	t	0.017	0.003	3.7E-11	0.0001	71.3
TG	rs26008	5	131008194	t	0.024	0.004	2.3E-10	0.0001	49.1
TG	rs4705986	5	132349654	t	0.034	0.006	4.4E-09	0.0001	84.1
TG	rs4704820	5	156334681	t	0.022	0.003	1.0E-11	0.0001	88.6
TG	rs6882076	5	156390297	t	0.042	0.002	6.7E-83	0.0008	501.2
TG	rs1650527	5	158022724	t	0.025	0.003	5.1E-16	0.0002	138.9
TG	rs2524060	6	31267422	a	0.029	0.003	3.3E-20	0.0003	185.6
TG	rs2442719	6	31320538	t	0.024	0.002	7.5E-32	0.0003	178.9
TG	rs17207867	6	31938412	t	0.027	0.004	5.0E-13	0.0001	70.2
TG	rs9271366	6	32586854	a	0.028	0.003	7.4E-19	0.0002	119.2
TG	rs9273368	6	32626475	a	0.018	0.003	9.3E-09	0.0001	78.8
TG	rs11752643	6	32669373	t	0.066	0.006	3.7E-26	0.0003	155.8
TG	rs2395655	6	36645696	a	0.017	0.002	6.6E-13	0.0001	80.0
TG	rs6458349	6	43759789	a	0.038	0.003	4.1E-37	0.0006	353.7
TG	rs78807370	6	43761091	a	0.043	0.004	3.9E-31	0.0005	293.1
TG	rs881858	6	43806609	a	0.020	0.002	1.8E-20	0.0002	107.2
TG	rs4715316	6	52628998	t	0.016	0.003	8.5E-09	0.0001	68.8
TG	rs2745353	6	127452935	t	0.019	0.002	1.9E-20	0.0002	106.0
TG	rs9388768	6	130374102	a	0.013	0.002	1.2E-09	0.0001	45.4
TG	rs643381	6	139839423	a	0.024	0.002	3.2E-32	0.0003	172.5
TG	rs12208357	6	160543148	t	0.030	0.004	1.1E-13	0.0001	75.1
TG	rs2665357	6	160848167	a	0.018	0.002	1.9E-15	0.0002	104.3
TG	rs645718	6	161406239	a	0.034	0.005	2.1E-10	0.0001	62.5
TG	rs12699758	7	15964238	a	0.016	0.003	3.6E-09	0.0001	58.1
TG	rs4410790	7	17284577	t	0.012	0.002	1.4E-09	0.0001	43.2
TG	rs10235225	7	25905599	a	0.015	0.002	1.3E-09	0.0001	64.9
TG	rs4722551	7	25991826	t	0.019	0.003	1.1E-11	0.0001	63.7
TG	rs1534696	7	26397239	a	0.019	0.002	2.9E-15	0.0002	110.6
TG	rs2070971	7	44197583	t	0.023	0.003	7.2E-12	0.0001	84.4
TG	rs3757838	7	44231310	a	0.030	0.005	3.8E-11	0.0001	71.5
TG	rs1178979	7	72856430	t	0.044	0.004	1.1E-30	0.0006	353.9
TG	rs799158	7	73019074	t	0.076	0.008	4.0E-21	0.0004	273.6
TG	rs3812316	7	73020337	c	0.087	0.005	4.3E-82	0.0016	987.5
TG	rs287621	7	130435181	t	0.022	0.003	4.7E-19	0.0002	123.0

TG	rs3735080	7	150217309	t	0.016	0.002	2.6E-11	0.0001	56.2
TG	rs16884656	7	150512307	t	0.024	0.004	8.3E-09	0.0001	75.6
TG	rs4240624	8	9184231	a	0.034	0.004	1.2E-17	0.0002	108.7
TG	rs11776767	8	10683929	c	0.024	0.002	1.3E-27	0.0003	160.1
TG	rs2686187	8	11654796	a	0.014	0.002	3.7E-09	0.0001	60.5
TG	rs3947	8	11702375	a	0.019	0.002	7.1E-15	0.0001	86.5
TG	rs1495741	8	18272881	a	0.036	0.002	3.4E-56	0.0005	296.3
TG	rs1801177	8	19805708	a	0.095	0.009	1.1E-26	0.0003	202.0
TG	rs264	8	19813180	a	0.028	0.003	7.9E-17	0.0002	120.1
TG	rs268	8	19813529	a	0.232	0.008	5.5E-202	0.0017	1058.9
TG	rs301	8	19816934	t	0.062	0.005	2.8E-36	0.0015	904.3
TG	rs312	8	19817997	c	0.048	0.006	1.4E-13	0.0005	302.0
TG	rs326	8	19819439	a	0.078	0.005	6.7E-63	0.0026	1582.2
TG	rs12545984	8	19847259	t	0.044	0.006	2.1E-13	0.0005	316.6
TG	rs17091905	8	19849757	a	0.042	0.006	1.5E-13	0.0004	237.7
TG	rs10105418	8	19875365	a	0.082	0.009	1.9E-21	0.0003	208.6
TG	rs4637851	8	19922610	a	0.029	0.003	8.5E-22	0.0004	236.0
TG	rs13256965	8	19962962	a	0.017	0.002	7.5E-12	0.0001	84.7
TG	rs3736147	8	22471824	a	0.018	0.003	1.7E-10	0.0001	86.9
TG	rs1982768	8	25898565	a	0.022	0.004	3.0E-09	0.0001	74.8
TG	rs2081687	8	59388565	t	0.019	0.002	9.5E-20	0.0002	102.6
TG	rs4738141	8	72469742	a	0.017	0.003	1.6E-09	0.0001	67.1
TG	rs17730649	8	126465305	a	0.021	0.003	3.8E-16	0.0002	137.4
TG	rs6982502	8	126479362	t	0.028	0.005	5.1E-09	0.0004	238.0
TG	rs2980876	8	126481694	t	0.091	0.005	1.4E-73	0.0036	2230.5
TG	rs8180991	8	126500350	c	0.034	0.003	2.6E-24	0.0004	260.5
TG	rs4871624	8	126629328	t	0.020	0.003	1.0E-14	0.0002	100.1
TG	rs3927680	9	16887366	a	0.016	0.002	1.2E-15	0.0001	78.1
TG	rs4120895	9	33787532	t	0.018	0.003	4.3E-11	0.0001	92.3
TG	rs1800978	9	107665978	c	0.027	0.004	2.9E-13	0.0002	101.9
TG	rs17134592	10	5260682	c	0.021	0.003	4.3E-10	0.0001	64.6
TG	rs41274050	10	52573772	t	0.094	0.011	2.7E-17	0.0003	209.2
TG	rs7923609	10	65133822	a	0.030	0.003	1.2E-21	0.0004	270.8
TG	rs2298117	10	70346740	t	0.012	0.002	1.0E-09	0.0001	45.7
TG	rs7901016	10	74637326	t	0.040	0.004	3.5E-20	0.0002	114.7
TG	rs10748579	10	94090498	a	0.018	0.002	1.9E-18	0.0002	95.4
TG	rs7081888	10	94764660	t	0.033	0.005	1.7E-11	0.0002	97.4
TG	rs2068888	10	94839642	a	0.037	0.002	5.8E-71	0.0007	415.5
TG	rs2792751	10	113940329	t	0.018	0.002	7.5E-16	0.0001	81.0
TG	rs11195943	10	114154815	t	0.023	0.004	2.0E-10	0.0001	60.3
TG	rs10886863	10	122929493	t	0.058	0.010	4.3E-09	0.0002	110.1
TG	rs7940646	11	10669228	t	0.015	0.002	4.4E-12	0.0001	59.5
TG	rs10832027	11	13357183	a	0.016	0.002	1.8E-11	0.0001	68.7
TG	rs546383	11	18065663	t	0.013	0.002	7.6E-09	0.0001	52.6
TG	rs925946	11	27667202	t	0.016	0.002	7.6E-14	0.0001	68.9
TG	rs326214	11	47298360	a	0.022	0.002	4.1E-26	0.0002	130.6
TG	rs2727271	11	61603358	a	0.065	0.003	1.8E-78	0.0009	586.7
TG	rs174587	11	61612830	t	0.048	0.003	6.9E-50	0.0008	467.7

TG	rs35169799	11	64031241	t	0.041	0.004	4.8E-24	0.0002	120.4
TG	rs4014195	11	65506822	c	0.015	0.002	2.6E-12	0.0001	60.8
TG	rs2229738	11	68562328	t	0.024	0.004	1.6E-10	0.0001	50.8
TG	rs11237471	11	78082604	t	0.022	0.003	1.7E-10	0.0001	83.7
TG	rs4938289	11	116458785	t	0.047	0.006	1.3E-14	0.0003	164.7
TG	rs12799766	11	116558427	a	0.042	0.005	3.7E-19	0.0006	377.5
TG	rs74360954	11	116582542	t	0.113	0.008	1.5E-43	0.0013	804.6
TG	rs2000571	11	116585533	a	0.063	0.006	1.5E-26	0.0013	811.0
TG	rs180357	11	116599504	t	0.049	0.005	4.2E-24	0.0010	626.6
TG	rs4938307	11	116604514	a	0.073	0.007	4.7E-28	0.0011	683.7
TG	rs61730763	11	116631482	a	0.190	0.023	2.9E-16	0.0002	128.9
TG	rs17120029	11	116650118	t	0.142	0.009	1.2E-56	0.0025	1576.5
TG	rs11604424	11	116651115	t	0.066	0.006	1.5E-27	0.0015	930.8
TG	rs619054	11	116660813	a	0.057	0.004	1.1E-36	0.0012	716.3
TG	rs143292359	11	116661001	a	0.241	0.040	1.5E-09	0.0001	57.6
TG	rs662799	11	116663707	a	0.106	0.008	1.2E-43	0.0015	914.6
TG	rs9804646	11	116665079	t	0.060	0.006	2.8E-23	0.0006	355.6
TG	rs5104	11	116692334	t	0.035	0.004	1.6E-17	0.0003	190.7
TG	rs11216157	11	116711180	a	0.055	0.007	1.2E-16	0.0007	434.1
TG	rs888246	11	116724232	t	0.071	0.006	9.5E-29	0.0009	550.3
TG	rs2075292	11	116732512	t	0.063	0.005	8.4E-40	0.0009	545.8
TG	rs11216168	11	116741553	a	0.069	0.006	5.3E-27	0.0012	726.5
TG	rs2000615	11	116915819	t	0.057	0.006	4.0E-21	0.0007	430.3
TG	rs490262	11	117222592	a	0.019	0.003	2.2E-13	0.0001	67.1
TG	rs7134375	12	20473758	a	0.014	0.002	7.4E-13	0.0001	61.9
TG	rs4149056	12	21331549	t	0.032	0.003	3.3E-30	0.0003	159.4
TG	rs718314	12	26453283	a	0.019	0.003	1.4E-14	0.0001	87.3
TG	rs7979398	12	46086708	t	0.015	0.002	9.3E-11	0.0001	68.1
TG	rs11613352	12	57792580	t	0.025	0.003	5.8E-20	0.0002	131.4
TG	rs2075260	12	109696838	a	0.015	0.003	4.6E-09	0.0001	41.5
TG	rs3742004	12	111798553	a	0.016	0.003	9.8E-09	0.0001	53.4
TG	rs940904	12	123491572	a	0.015	0.003	4.2E-09	0.0001	55.3
TG	rs11057408	12	124464836	t	0.022	0.002	2.7E-20	0.0002	138.5
TG	rs10846744	12	125312425	c	0.027	0.003	1.3E-15	0.0002	121.2
TG	rs2298058	13	95248566	t	0.024	0.003	5.4E-17	0.0003	157.7
TG	rs7400722	13	114527838	a	0.016	0.002	1.9E-12	0.0001	71.6
TG	rs7157785	14	64235556	t	0.020	0.003	7.1E-13	0.0001	71.3
TG	rs11634257	15	40388492	a	0.018	0.003	1.5E-09	0.0001	74.5
TG	rs17747633	15	40916237	a	0.015	0.002	4.6E-12	0.0001	63.2
TG	rs16949992	15	44238869	c	0.075	0.006	5.7E-34	0.0005	293.5
TG	rs11858955	15	44246293	a	0.115	0.016	3.8E-13	0.0002	133.3
TG	rs493258	15	58687880	t	0.017	0.002	1.4E-17	0.0001	89.9
TG	rs12913346	15	63530965	a	0.024	0.004	4.1E-11	0.0001	83.5
TG	rs17184382	15	63792486	a	0.017	0.002	3.9E-13	0.0001	88.9
TG	rs2415168	15	73109629	a	0.015	0.003	3.2E-09	0.0001	55.8
TG	rs10152471	15	101890913	a	0.016	0.003	4.9E-09	0.0001	74.6
TG	rs143076454	16	921179	a	0.048	0.008	6.8E-09	0.0001	48.6
TG	rs11075253	16	15148646	a	0.027	0.003	2.6E-15	0.0003	185.3
TG	rs2032915	16	31117413	t	0.017	0.002	5.4E-14	0.0001	87.0

TG	rs9939609	16	53820527	a	0.019	0.002	2.0E-21	0.0002	106.8
TG	rs1800775	16	56995236	a	0.023	0.002	3.4E-27	0.0003	162.2
TG	rs7203984	16	56999258	a	0.022	0.003	5.2E-12	0.0002	97.0
TG	rs9940315	16	69876164	a	0.019	0.003	4.7E-13	0.0002	107.5
TG	rs2000999	16	72108093	a	0.020	0.003	7.3E-15	0.0001	81.3
TG	rs12443634	16	81524274	a	0.018	0.003	9.3E-10	0.0001	84.4
TG	rs1053328	16	85711860	t	0.014	0.002	8.8E-09	0.0001	54.3
TG	rs3853818	17	7346302	t	0.016	0.002	6.5E-12	0.0001	75.9
TG	rs897453	17	17425631	t	0.014	0.002	1.1E-12	0.0001	61.2
TG	rs1563631	17	18221134	t	0.017	0.002	6.7E-15	0.0001	75.2
TG	rs3110454	17	28651363	t	0.017	0.003	7.4E-10	0.0001	83.3
TG	rs2306590	17	34854280	a	0.013	0.002	5.0E-10	0.0001	50.3
TG	rs2079005	17	41865627	t	0.022	0.003	6.2E-15	0.0002	104.3
TG	rs1662750	17	42011823	a	0.018	0.003	1.4E-11	0.0002	95.0
TG	rs2074108	17	42336149	t	0.015	0.002	1.1E-09	0.0001	64.6
TG	rs11871606	17	45732774	a	0.016	0.002	3.4E-16	0.0001	82.2
TG	rs8075803	17	47346529	t	0.019	0.002	1.3E-16	0.0002	111.7
TG	rs12602912	17	65870073	t	0.023	0.002	1.2E-21	0.0002	100.9
TG	rs2125345	17	73782191	t	0.013	0.002	1.8E-09	0.0001	46.5
TG	rs2292642	17	76395430	t	0.021	0.002	4.3E-25	0.0002	125.4
TG	rs1652343	18	21131929	t	0.016	0.003	2.0E-09	0.0001	75.1
TG	rs17178414	19	4945250	t	0.019	0.003	1.0E-10	0.0002	97.1
TG	rs1799816	19	7125518	t	0.068	0.011	6.4E-10	0.0001	47.6
TG	rs7248104	19	7224431	a	0.019	0.002	1.5E-21	0.0002	108.6
TG	rs116843064	19	8429323	a	0.265	0.007	3.8E-295	0.0036	2223.6
TG	rs140744493	19	8436373	t	0.121	0.019	1.5E-10	0.0001	50.5
TG	rs1862644	19	18724315	a	0.017	0.003	2.2E-09	0.0001	86.6
TG	rs117877390	19	19378416	t	0.103	0.011	1.7E-21	0.0006	357.1
TG	rs10401969	19	19407718	t	0.095	0.004	5.2E-150	0.0013	824.6
TG	rs145702982	19	19579726	a	0.119	0.021	6.2E-09	0.0003	172.3
TG	rs8182584	19	33909710	t	0.017	0.002	2.7E-15	0.0001	81.6
TG	rs1688030	19	35556744	t	0.033	0.005	5.5E-13	0.0001	78.8
TG	rs2018519	19	35559787	t	0.021	0.003	8.9E-11	0.0001	74.7
TG	rs28399653	19	45315445	a	0.041	0.006	5.5E-12	0.0001	60.1
TG	rs4803760	19	45333834	t	0.021	0.003	1.3E-11	0.0001	83.5
TG	rs157582	19	45396219	t	0.042	0.004	7.5E-24	0.0006	383.4
TG	rs439401	19	45414451	t	0.080	0.002	1.2E-229	0.0030	1869.3
TG	rs59325138	19	45416291	t	0.040	0.003	1.2E-31	0.0008	469.6
TG	rs7259004	19	45432557	c	0.064	0.005	2.3E-45	0.0008	463.7
TG	rs2287922	19	49232226	a	0.018	0.002	4.0E-17	0.0002	96.4
TG	rs1132990	19	50028163	a	0.018	0.003	4.2E-09	0.0001	63.0
TG	rs6029143	20	39118662	t	0.035	0.005	8.6E-13	0.0001	92.4
TG	rs6016381	20	39180436	t	0.018	0.002	8.4E-15	0.0001	92.0
TG	rs1997833	20	39690342	t	0.016	0.003	1.2E-09	0.0001	61.0
TG	rs3827066	20	44586023	t	0.043	0.004	4.3E-28	0.0005	308.0
TG	rs8123864	20	44598670	t	0.044	0.003	2.0E-46	0.0009	535.9
TG	rs1211644	20	45592842	t	0.024	0.003	2.8E-15	0.0002	131.0
TG	rs2426428	20	50886412	t	0.031	0.005	2.3E-11	0.0001	92.2

TG	rs6025606	20	56098733	t	0.013	0.002	7.4E-10	0.0001	48.3
TG	rs41302559	20	56140439	a	0.145	0.021	1.8E-12	0.0001	61.9
TG	rs114139997	21	46875775	a	0.365	0.039	2.9E-21	0.0003	180.4
TG	rs200559406	21	46875817	a	0.282	0.036	6.6E-15	0.0001	78.5
TG	rs35665085	22	17625915	a	0.032	0.005	1.9E-12	0.0001	61.4
TG	rs738322	22	38569006	a	0.021	0.002	9.2E-26	0.0002	135.9
TG	rs5757161	22	38990662	a	0.016	0.003	1.6E-10	0.0001	72.5
TG	rs738409	22	44324727	c	0.017	0.002	4.0E-12	0.0001	59.6

Supplementary Table 3. Trait-specific genetic instruments for blood lipid levels selected from the Global Lipids Genetics Consortium (GLGC) dataset. Variants were selected on the basis of their association with the respective trait at $p < 5 \times 10^{-8}$ and a $p > 0.01$ regarding their association with the other two traits.

Phenotype	SNP	Eff_allele	Associations with HDL-C			Associations with LDL-C			Associations with TG		
			Effect	SE	P-value	Effect	SE	P-value	Effect	SE	P-value
HDL-C	rs103294	t	0.052	0.004	4.00E-30	0.007	0.005	0.123	-0.002	0.004	0.752
HDL-C	rs10773105	t	0.036	0.004	3.20E-24	0.006	0.004	0.122	0.004	0.003	0.509
HDL-C	rs11246602	c	0.034	0.005	1.68E-10	0.002	0.006	0.526	-0.009	0.005	0.192
HDL-C	rs12226802	g	0.033	0.005	1.29E-09	0	0.005	0.619	-0.007	0.005	0.23
HDL-C	rs16942887	a	0.083	0.005	8.28E-54	0.001	0.005	0.798	-0.012	0.005	0.0296
HDL-C	rs17695224	g	0.029	0.004	2.42E-13	0.011	0.004	0.0125	-0.012	0.004	0.0113
HDL-C	rs181362	c	0.038	0.004	9.24E-18	0.007	0.005	0.0793	0.009	0.004	0.0281
HDL-C	rs205262	a	0.028	0.004	3.88E-13	0.009	0.004	0.0313	-0.003	0.004	0.803
HDL-C	rs2240327	g	0.024	0.003	1.11E-11	0.001	0.004	0.971	-0.002	0.003	0.867
HDL-C	rs2241210	g	0.033	0.004	2.49E-20	0.008	0.004	0.0855	0.003	0.003	0.247
HDL-C	rs2290547	a	-0.03	0.005	3.69E-09	0.001	0.005	0.793	0.01	0.004	0.0221
HDL-C	rs2472509	g	0.023	0.004	1.21E-09	0	0.004	0.708	-0.002	0.004	0.722
HDL-C	rs2602836	g	0.019	0.003	4.96E-08	0.001	0.004	0.831	0.009	0.003	0.0212
HDL-C	rs4650994	a	0.021	0.003	6.70E-09	0.003	0.004	0.338	0.002	0.003	0.398
HDL-C	rs4917014	g	0.022	0.004	1.03E-08	0.005	0.004	0.246	-0.001	0.004	0.887
HDL-C	rs4983559	g	0.02	0.004	9.57E-09	0.003	0.004	0.583	0	0.004	0.971
HDL-C	rs499974	a	0.026	0.004	1.12E-08	0.001	0.005	0.826	-0.009	0.004	0.0541
HDL-C	rs702485	g	0.024	0.003	6.45E-12	0.001	0.004	0.787	-0.002	0.003	0.475
HDL-C	rs838876	g	0.049	0.004	7.33E-33	0.003	0.004	0.442	0.005	0.004	0.377
LDL-C	rs1010167	g	0.004	0.004	0.396	0.025	0.004	6.22E-11	0.002	0.004	0.808
LDL-C	rs11563251	t	0.006	0.006	0.365	0.035	0.006	4.50E-08	0.008	0.006	0.0826
LDL-C	rs1250229	c	0.003	0.004	0.404	0.024	0.004	3.13E-08	0.009	0.004	0.0139
LDL-C	rs12670798	c	0.001	0.004	0.733	0.034	0.004	4.81E-14	0.01	0.004	0.0168
LDL-C	rs16831243	t	0.011	0.005	0.039	0.038	0.006	9.06E-12	-0.001	0.005	0.987
LDL-C	rs17508045	t	0.009	0.006	0.0466	0.049	0.007	4.91E-12	-0.008	0.006	0.4
LDL-C	rs1800562	g	0.007	0.007	0.242	0.062	0.008	8.25E-14	-0.013	0.007	0.172
LDL-C	rs2030746	t	0.003	0.004	0.306	0.021	0.004	8.61E-09	0.003	0.004	0.491
LDL-C	rs2294261	a	0.009	0.004	0.0206	0.033	0.004	6.57E-17	0.002	0.003	0.587
LDL-C	rs2328223	c	0	0.005	0.859	0.03	0.005	5.63E-09	-0.007	0.005	0.115
LDL-C	rs314253	t	0.003	0.004	0.353	0.024	0.004	3.44E-10	0.009	0.003	0.0298
LDL-C	rs364585	g	0.001	0.004	0.822	0.025	0.004	4.28E-10	-0.002	0.003	0.44
LDL-C	rs3780181	a	0.004	0.007	0.542	0.045	0.007	1.76E-09	-0.007	0.007	0.491
LDL-C	rs4148218	g	0.003	0.004	0.456	0.044	0.005	6.76E-21	0.004	0.004	0.295
LDL-C	rs4530754	a	0.001	0.003	0.934	0.028	0.004	3.58E-12	0.002	0.003	0.742
LDL-C	rs6065311	c	0.002	0.003	0.437	0.042	0.004	1.66E-30	0.006	0.003	0.0227
LDL-C	rs6489818	a	0	0.005	0.928	0.028	0.005	4.57E-09	-0.004	0.004	0.54
LDL-C	rs6603981	t	0.004	0.004	0.381	0.034	0.004	3.10E-13	0.007	0.004	0.174
LDL-C	rs7225700	c	0.01	0.004	0.0235	0.03	0.004	3.56E-13	-0.005	0.004	0.236
LDL-C	rs7703051	a	0.002	0.004	0.421	0.073	0.004	1.40E-77	0.006	0.003	0.163
LDL-C	rs7832643	t	0.001	0.004	0.595	0.034	0.004	2.67E-17	0.002	0.003	0.472
LDL-C	rs7832643	t	0.001	0.004	0.595	0.034	0.004	2.67E-17	0.002	0.003	0.472
LDL-C	rs8017377	a	0.004	0.004	0.434	0.03	0.004	2.52E-15	0.006	0.004	0.142
LDL-C	rs8176720	t	0.001	0.004	0.943	0.033	0.004	1.59E-17	-0.007	0.004	0.0609
LDL-C	rs903319	c	0.01	0.004	0.0122	0.027	0.004	5.22E-11	-0.005	0.004	0.138

TG	rs10029254	t	- 0.009	0.004	0.0487	0.006	0.004	0.205	0.027	0.004	7.55E-09
TG	rs1781930	g	0.002	0.005	0.625	0.01	0.005	0.057	0.031	0.004	2.51E-11
TG	rs603446	c	- 0.002	0.004	0.873	0.009	0.004	0.0114	0.05	0.003	3.92E-43
TG	rs9693857	c	0.004	0.004	0.527	0.005	0.004	0.298	-0.02	0.003	1.69E-08

Supplementary Table 4. Genetic instruments for the circulating cholesterol and triglyceride concentrations of the lipoprotein particles as selected and extracted from the dataset of the GWAS meta-analysis on Nuclear Magnetic Resonance (NMR)-measured circulating metabolites.

Metabolite	SNP	Chr	Position (hg18)	Eff_allele	Effect	SE	P-value	R2	F
L.HDL.C	rs1077835	15	58723426	G	0.181	0.012	1.39E-53	0.0122	265.5
L.HDL.C	rs11076174	16	57003146	C	0.134	0.016	1.17E-16	0.0035	76.7
L.HDL.C	rs11076176	16	57007446	G	0.171	0.014	1.62E-34	0.0081	176.2
L.HDL.C	rs111543310	15	59531818	C	0.338	0.049	6.88E-12	0.0036	69.2
L.HDL.C	rs112835635	15	59351989	G	0.263	0.035	2.13E-13	0.0031	63.2
L.HDL.C	rs112884731	15	59504897	C	0.544	0.057	2.75E-21	0.0055	98.4
L.HDL.C	rs113298164	15	58855748	T	0.584	0.047	2.74E-34	0.0092	165.4
L.HDL.C	rs116142092	15	59751872	T	0.383	0.050	5.61E-14	0.0034	61.4
L.HDL.C	rs11633043	15	58837722	A	0.078	0.014	2.57E-08	0.0017	36.4
L.HDL.C	rs117901517	15	58678869	C	0.142	0.023	5.22E-10	0.0030	58.2
L.HDL.C	rs1318175	15	58586129	T	0.087	0.013	5.41E-11	0.0022	47.1
L.HDL.C	rs1367117	2	21263900	A	0.063	0.011	1.50E-08	0.0016	35.1
L.HDL.C	rs1373657	15	58717762	T	0.165	0.030	4.42E-08	0.0021	38.2
L.HDL.C	rs138690293	15	59310760	C	0.722	0.107	2.61E-11	0.0039	62.4
L.HDL.C	rs142855631	15	59286876	T	0.737	0.108	1.33E-11	0.0039	63.1
L.HDL.C	rs146842281	15	59356659	T	0.154	0.022	3.53E-12	0.0027	52.8
L.HDL.C	rs148902553	15	59776836	C	0.388	0.051	3.48E-14	0.0036	62.1
L.HDL.C	rs16940472	15	58835317	A	0.130	0.020	2.49E-10	0.0026	56.9
L.HDL.C	rs16940810	15	59115159	T	0.252	0.030	5.86E-17	0.0038	77.2
L.HDL.C	rs17301746	15	58731395	T	0.265	0.038	5.18E-12	0.0029	63.1
L.HDL.C	rs174583	11	61609750	T	0.078	0.010	2.92E-14	0.0029	62.4
L.HDL.C	rs17821274	15	58684478	C	0.086	0.010	3.91E-16	0.0033	72.3
L.HDL.C	rs17821298	15	58690738	A	0.092	0.012	7.20E-15	0.0030	65.7
L.HDL.C	rs1800777	16	57017319	A	0.234	0.035	4.04E-11	0.0027	51.6
L.HDL.C	rs181412360	15	59158953	C	0.378	0.038	6.01E-23	0.0059	106.4
L.HDL.C	rs182776276	15	59254589	G	0.573	0.060	2.84E-21	0.0056	96.2
L.HDL.C	rs183975744	15	59052479	T	0.747	0.120	7.21E-10	0.0028	43.1
L.HDL.C	rs185241689	15	59143155	G	0.810	0.114	1.96E-12	0.0039	64.0
L.HDL.C	rs185481	15	58666679	C	0.069	0.010	2.68E-11	0.0024	51.0
L.HDL.C	rs186924495	20	44686926	T	0.207	0.037	3.38E-08	0.0018	32.6
L.HDL.C	rs1883025	9	107664301	T	0.072	0.012	9.85E-09	0.0016	35.1
L.HDL.C	rs189375934	15	60196526	G	0.310	0.053	6.61E-09	0.0022	38.1
L.HDL.C	rs189418461	15	59725202	G	0.379	0.050	5.52E-14	0.0034	61.2
L.HDL.C	rs192630343	15	59286102	A	0.708	0.107	5.45E-11	0.0038	62.1
L.HDL.C	rs247617	16	56990716	A	0.210	0.011	1.93E-82	0.0184	403.3
L.HDL.C	rs261291	15	58680178	C	0.179	0.010	2.39E-68	0.0151	329.4
L.HDL.C	rs28370984	15	58629308	C	0.177	0.032	3.98E-08	0.0017	33.7
L.HDL.C	rs291	8	19815852	C	0.101	0.012	1.45E-17	0.0036	77.8
L.HDL.C	rs34718390	15	58682690	A	0.156	0.024	6.31E-11	0.0028	61.5
L.HDL.C	rs35547826	15	58720405	A	0.084	0.014	7.63E-09	0.0017	37.6
L.HDL.C	rs429358	19	45411941	C	0.092	0.013	1.46E-11	0.0024	51.1
L.HDL.C	rs435306	20	44538484	T	0.073	0.011	2.88E-10	0.0020	42.2
L.HDL.C	rs517755	19	45009036	C	0.229	0.041	3.58E-08	0.0019	36.8
L.HDL.C	rs55995508	16	56827946	A	0.159	0.025	4.93E-10	0.0023	44.6
L.HDL.C	rs6065904	20	44534651	A	0.135	0.012	1.72E-30	0.0065	140.2

L.HDL.C	rs6499857	16	56935090	C	0.067	0.012	3.70E-08	0.0015	32.8
L.HDL.C	rs6507939	18	47176261	C	0.095	0.013	3.34E-12	0.0024	51.2
L.HDL.C	rs6544366	2	21204025	T	0.064	0.011	8.14E-09	0.0016	34.8
L.HDL.C	rs67053123	12	125353810	A	0.092	0.015	3.90E-10	0.0021	46.3
L.HDL.C	rs73959582	18	47148886	C	0.079	0.014	4.62E-08	0.0016	35.2
L.HDL.C	rs7412	19	45412079	T	0.158	0.025	8.48E-10	0.0026	48.2
L.HDL.C	rs75835816	8	19885513	C	0.293	0.038	2.87E-14	0.0033	63.3
L.HDL.C	rs76083992	20	44544798	T	0.229	0.032	2.01E-12	0.0026	51.8
L.HDL.C	rs76116860	15	59834938	C	0.277	0.041	2.66E-11	0.0027	52.2
L.HDL.C	rs79844529	15	58445279	T	0.190	0.032	3.43E-09	0.0024	45.8
L.HDL.C	rs8042174	15	58685970	C	0.112	0.020	2.10E-08	0.0018	38.0
L.HDL.C	rs938507	15	58582034	A	0.101	0.014	2.89E-12	0.0024	51.2
L.HDL.C	rs964184	11	116648917	C	0.082	0.014	8.07E-09	0.0016	34.5
M.LDL.C	rs10424477	19	10636051	T	0.071	0.011	1.53E-09	0.0021	46.4
M.LDL.C	rs111740198	19	44878217	A	0.321	0.052	1.22E-09	0.0033	48.4
M.LDL.C	rs112635299	14	94838142	T	0.237	0.040	4.03E-09	0.0020	39.4
M.LDL.C	rs11587071	1	55522674	T	0.092	0.014	1.95E-11	0.0023	49.1
M.LDL.C	rs116054287	1	56401689	C	0.397	0.038	4.41E-25	0.0058	126.0
M.LDL.C	rs117261169	19	45491032	T	0.361	0.055	1.44E-10	0.0025	48.6
M.LDL.C	rs117569256	19	45423330	G	0.821	0.107	4.27E-14	0.0068	91.9
M.LDL.C	rs11878174	19	45723379	C	0.073	0.012	6.11E-10	0.0026	51.0
M.LDL.C	rs12043403	1	55431933	C	0.138	0.018	3.27E-14	0.0038	73.8
M.LDL.C	rs12086676	1	55738663	T	0.076	0.013	2.68E-09	0.0018	38.8
M.LDL.C	rs12916	5	74656539	C	0.084	0.010	1.86E-16	0.0034	73.7
M.LDL.C	rs137992968	19	11239696	T	0.204	0.034	3.32E-09	0.0018	39.1
M.LDL.C	rs138270540	4	75353427	C	0.226	0.036	9.95E-10	0.0025	46.3
M.LDL.C	rs138287365	4	74781004	C	0.373	0.050	2.70E-13	0.0037	68.3
M.LDL.C	rs138525976	1	55960656	A	0.103	0.018	2.24E-08	0.0017	35.7
M.LDL.C	rs140339333	4	75396456	A	0.288	0.045	2.32E-10	0.0030	55.3
M.LDL.C	rs140411770	19	45356517	A	0.542	0.088	1.58E-09	0.0049	76.2
M.LDL.C	rs142130958	19	11190652	A	0.221	0.016	2.19E-40	0.0092	200.6
M.LDL.C	rs143413051	4	75560225	T	0.381	0.055	1.05E-11	0.0034	57.9
M.LDL.C	rs143736900	4	72871285	C	0.594	0.083	2.35E-12	0.0045	71.5
M.LDL.C	rs144591518	19	10518992	T	0.194	0.034	3.05E-08	0.0016	34.0
M.LDL.C	rs144721118	1	54196340	A	0.270	0.040	1.94E-11	0.0034	65.0
M.LDL.C	rs146568567	1	54824117	A	0.315	0.032	1.24E-22	0.0054	104.9
M.LDL.C	rs147319495	2	20912953	G	0.064	0.011	8.09E-09	0.0017	36.9
M.LDL.C	rs147825223	19	45479553	C	0.173	0.028	1.92E-09	0.0022	39.8
M.LDL.C	rs148359521	2	21414212	T	0.187	0.032	8.31E-09	0.0020	39.0
M.LDL.C	rs148382396	1	54639713	A	0.390	0.051	5.53E-14	0.0044	70.1
M.LDL.C	rs149048538	19	45053024	A	0.282	0.044	1.91E-10	0.0025	47.8
M.LDL.C	rs149844719	1	54519237	T	0.183	0.028	1.18E-10	0.0023	50.7
M.LDL.C	rs149944945	1	56129361	G	0.292	0.034	3.47E-17	0.0043	82.3
M.LDL.C	rs150785555	1	56005603	A	0.451	0.036	1.28E-35	0.0090	175.6
M.LDL.C	rs150966173	19	45421204	T	0.225	0.039	1.01E-08	0.0020	39.4
M.LDL.C	rs150985779	19	45147992	T	0.269	0.038	2.86E-12	0.0031	59.1
M.LDL.C	rs151193598	4	73303394	A	0.634	0.087	8.45E-13	0.0061	82.8
M.LDL.C	rs157594	19	45425175	G	0.133	0.012	4.31E-29	0.0086	167.0

M.LDL.C	rs17111503	1	55503448	G	0.075	0.013	1.34E-08	0.0018	39.6
M.LDL.C	rs17395160	1	55085141	G	0.086	0.012	2.42E-12	0.0025	53.1
M.LDL.C	rs180961170	1	57012269	G	0.364	0.052	4.27E-12	0.0037	65.6
M.LDL.C	rs181066897	4	73499882	C	0.515	0.080	2.30E-10	0.0041	66.1
M.LDL.C	rs181169081	2	21312870	A	0.185	0.032	1.07E-08	0.0020	38.2
M.LDL.C	rs181594442	1	57006537	A	0.364	0.052	4.33E-12	0.0037	65.6
M.LDL.C	rs181847072	4	73134560	G	0.592	0.083	1.85E-12	0.0046	72.3
M.LDL.C	rs182300850	1	54389320	C	0.371	0.060	1.06E-09	0.0032	48.4
M.LDL.C	rs182318839	19	45747128	T	0.300	0.054	3.77E-08	0.0027	47.3
M.LDL.C	rs184566992	19	44887996	T	0.353	0.052	2.52E-11	0.0037	58.6
M.LDL.C	rs184650103	4	74850649	T	0.406	0.047	2.78E-17	0.0045	77.6
M.LDL.C	rs185049786	4	74644512	C	0.335	0.054	1.08E-09	0.0034	62.6
M.LDL.C	rs185415345	1	56625395	A	0.168	0.027	1.48E-09	0.0025	48.2
M.LDL.C	rs185802315	19	10777054	G	0.231	0.036	2.50E-10	0.0025	44.8
M.LDL.C	rs185886292	19	45565918	T	0.184	0.032	1.51E-08	0.0021	37.3
M.LDL.C	rs186538116	1	56840574	C	0.421	0.045	1.49E-20	0.0059	105.9
M.LDL.C	rs188099946	19	45189605	T	0.296	0.045	1.06E-10	0.0022	48.6
M.LDL.C	rs189409600	19	45341066	T	0.749	0.103	8.32E-13	0.0060	83.6
M.LDL.C	rs189718275	19	45063850	A	0.296	0.044	3.75E-11	0.0028	53.2
M.LDL.C	rs190217562	4	75180409	C	0.251	0.035	1.36E-12	0.0059	106.0
M.LDL.C	rs190934192	1	55334001	A	0.385	0.040	2.23E-21	0.0069	134.8
M.LDL.C	rs191210370	1	54236244	G	0.212	0.038	3.42E-08	0.0021	40.7
M.LDL.C	rs191404723	1	54636232	T	0.390	0.051	4.44E-14	0.0041	71.1
M.LDL.C	rs191448950	1	55584844	A	0.484	0.032	1.80E-51	0.0111	243.0
M.LDL.C	rs192012905	19	44463485	G	0.340	0.053	1.93E-10	0.0029	52.4
M.LDL.C	rs192570155	1	55246601	C	0.492	0.045	4.04E-27	0.0085	152.5
M.LDL.C	rs193084249	1	26987646	G	0.182	0.031	1.04E-08	0.0021	39.7
M.LDL.C	rs2007708	19	45410420	A	0.831	0.104	3.41E-15	0.0054	99.4
M.LDL.C	rs207176	1	55791846	T	0.121	0.017	2.14E-12	0.0026	55.4
M.LDL.C	rs2207132	20	39142516	A	0.137	0.025	3.69E-08	0.0021	40.8
M.LDL.C	rs2927472	19	45349369	C	0.151	0.018	6.13E-17	0.0041	88.8
M.LDL.C	rs2965149	19	45190766	C	0.069	0.011	1.57E-10	0.0022	47.7
M.LDL.C	rs2967668	19	45302951	G	0.178	0.017	4.32E-25	0.0071	137.2
M.LDL.C	rs2980875	8	126481747	G	0.058	0.010	5.86E-09	0.0017	36.1
M.LDL.C	rs312030	2	21462743	C	0.108	0.018	1.25E-09	0.0019	41.9
M.LDL.C	rs3185010	19	11275842	A	0.064	0.011	5.50E-09	0.0017	37.0
M.LDL.C	rs34722314	2	21271707	A	0.124	0.014	6.82E-18	0.0037	80.2
M.LDL.C	rs3741298	11	116657561	T	0.072	0.012	1.49E-09	0.0018	39.1
M.LDL.C	rs429358	19	45411941	C	0.220	0.013	2.46E-59	0.0136	298.2
M.LDL.C	rs4609471	1	55493584	A	0.382	0.030	8.83E-37	0.0113	220.5
M.LDL.C	rs4803748	19	45247048	T	0.080	0.011	1.32E-13	0.0030	65.5
M.LDL.C	rs55810502	5	74380959	G	0.070	0.012	8.93E-09	0.0017	36.5
M.LDL.C	rs58826447	19	45328379	A	0.070	0.011	1.05E-10	0.0022	48.3
M.LDL.C	rs62117161	19	45233385	G	0.206	0.020	1.98E-24	0.0054	117.5
M.LDL.C	rs62120794	2	21100426	T	0.177	0.024	4.41E-13	0.0028	56.8
M.LDL.C	rs629301	1	109818306	T	0.126	0.012	1.62E-25	0.0055	118.9
M.LDL.C	rs6511721	19	11206575	A	0.092	0.011	6.23E-17	0.0042	91.7
M.LDL.C	rs6663252	1	55630151	C	0.084	0.012	1.01E-11	0.0024	51.1

M.LDL.C	rs6732011	2	21146521	T	0.059	0.010	6.73E-09	0.0016	35.4
M.LDL.C	rs6859	19	45382034	G	0.080	0.010	1.10E-15	0.0032	69.1
M.LDL.C	rs7255743	19	46018119	A	0.178	0.032	4.50E-08	0.0016	35.0
M.LDL.C	rs73048351	19	45160086	A	0.415	0.064	2.47E-10	0.0030	58.3
M.LDL.C	rs73066442	7	21592973	G	0.071	0.011	8.03E-10	0.0019	40.9
M.LDL.C	rs73556990	19	44888175	G	0.326	0.052	8.98E-10	0.0036	50.7
M.LDL.C	rs73564218	19	45665952	C	0.173	0.030	1.27E-08	0.0020	35.4
M.LDL.C	rs74073060	1	55638930	A	0.478	0.037	1.28E-36	0.0098	190.3
M.LDL.C	rs7412	19	45412079	T	0.565	0.025	#####	0.0338	638.4
M.LDL.C	rs75647206	1	56947591	T	0.365	0.050	6.08E-13	0.0035	67.7
M.LDL.C	rs7604788	2	21190024	T	0.176	0.022	3.01E-15	0.0033	72.3
M.LDL.C	rs76670936	19	45196581	A	0.145	0.018	1.18E-14	0.0034	74.4
M.LDL.C	rs76866386	2	44075483	C	0.142	0.018	1.42E-14	0.0029	63.2
M.LDL.C	rs77021821	4	75684215	T	0.251	0.041	1.71E-09	0.0023	42.2
M.LDL.C	rs78620068	2	21524000	A	0.115	0.017	7.72E-11	0.0022	47.6
M.LDL.C	rs79668907	19	11257169	T	0.091	0.012	7.58E-13	0.0031	66.3
M.LDL.C	rs79890446	19	45723446	T	0.234	0.033	2.89E-12	0.0034	65.8
M.LDL.C	rs8106814	19	45441608	C	0.101	0.014	4.47E-12	0.0035	68.2
M.LDL.C	rs8111962	19	10915324	T	0.095	0.014	1.59E-11	0.0023	49.6
M.LDL.C	rs934197	2	21267461	A	0.113	0.011	3.50E-24	0.0052	113.4
M.LDL.C	rs984976	5	74910870	G	0.075	0.010	1.30E-13	0.0027	59.0
IDL.TG	rs10495713	2	21200519	G	0.062	0.010	2.48E-09	0.0019	37.2
IDL.TG	rs113105798	15	59301460	A	0.198	0.036	4.06E-08	0.0018	35.2
IDL.TG	rs113298164	15	58855748	T	0.395	0.047	2.42E-16	0.0042	75.3
IDL.TG	rs113531395	17	4886829	T	0.246	0.036	2.44E-11	0.0031	59.4
IDL.TG	rs114822153	4	73238544	A	0.244	0.043	1.68E-08	0.0025	48.0
IDL.TG	rs115849089	8	19912370	A	0.098	0.017	2.05E-08	0.0017	33.7
IDL.TG	rs116054287	1	56401689	C	0.282	0.038	5.00E-13	0.0031	60.0
IDL.TG	rs116302332	4	75370891	T	0.257	0.040	1.90E-10	0.0028	54.7
IDL.TG	rs11633043	15	58837722	A	0.079	0.014	4.38E-08	0.0018	34.4
IDL.TG	rs116802199	17	4801101	C	0.235	0.032	3.08E-13	0.0031	58.1
IDL.TG	rs1168041	1	62960250	C	0.084	0.012	1.96E-12	0.0028	53.9
IDL.TG	rs117749052	15	58749309	C	0.216	0.037	9.78E-09	0.0027	51.9
IDL.TG	rs118095054	19	19621301	G	0.137	0.024	1.34E-08	0.0022	42.5
IDL.TG	rs12043403	1	55431933	C	0.101	0.018	3.23E-08	0.0020	39.2
IDL.TG	rs1268353	11	116639692	T	0.064	0.011	1.66E-09	0.0020	37.9
IDL.TG	rs1318175	15	58586129	T	0.088	0.014	2.89E-10	0.0022	42.6
IDL.TG	rs13329672	15	58699937	T	0.086	0.012	9.82E-13	0.0029	55.6
IDL.TG	rs138195472	15	58672107	T	0.223	0.035	3.10E-10	0.0025	44.3
IDL.TG	rs138287365	4	74781004	C	0.407	0.049	3.37E-16	0.0044	85.3
IDL.TG	rs140250995	4	73723860	C	0.636	0.100	3.37E-10	0.0035	64.6
IDL.TG	rs140339333	4	75396456	A	0.309	0.044	4.64E-12	0.0034	65.8
IDL.TG	rs143413051	4	75560225	T	0.404	0.055	3.05E-13	0.0037	66.9
IDL.TG	rs143736900	4	72871285	C	0.692	0.082	1.08E-16	0.0060	100.2
IDL.TG	rs145347194	15	58670135	C	0.135	0.023	3.51E-09	0.0024	46.2
IDL.TG	rs146568567	1	54824117	A	0.208	0.032	1.02E-10	0.0024	45.7
IDL.TG	rs146842281	15	59356659	T	0.146	0.022	6.31E-11	0.0024	47.1
IDL.TG	rs149297353	19	20115517	G	0.192	0.030	2.02E-10	0.0026	50.9

IDL.TG	rs149944945	1	56129361	G	0.248	0.034	9.23E-13	0.0031	59.1
IDL.TG	rs150392353	2	21320317	C	0.228	0.032	1.93E-12	0.0030	58.2
IDL.TG	rs150536132	19	19679560	T	0.183	0.030	1.13E-09	0.0028	50.4
IDL.TG	rs150785555	1	56005603	A	0.328	0.036	1.74E-19	0.0048	92.2
IDL.TG	rs151193598	4	73303394	A	0.658	0.085	3.13E-14	0.0066	94.0
IDL.TG	rs1532085	15	58683366	G	0.156	0.010	8.71E-49	0.0117	229.0
IDL.TG	rs157594	19	45425175	G	0.126	0.012	4.34E-26	0.0077	148.6
IDL.TG	rs1663255	15	58514242	T	0.071	0.011	2.41E-10	0.0022	42.6
IDL.TG	rs16940213	15	58695337	T	0.126	0.013	1.70E-20	0.0046	89.8
IDL.TG	rs17001002	19	10948031	A	0.094	0.016	8.44E-09	0.0022	35.2
IDL.TG	rs17216525	19	19662220	T	0.132	0.021	4.39E-10	0.0021	40.7
IDL.TG	rs181066897	4	73499882	C	0.523	0.080	1.17E-10	0.0042	68.2
IDL.TG	rs181169081	2	21312870	A	0.227	0.032	2.17E-12	0.0030	57.6
IDL.TG	rs181181625	15	59377940	T	0.388	0.058	3.00E-11	0.0027	48.4
IDL.TG	rs181275587	19	20486755	A	0.167	0.029	2.02E-08	0.0022	39.0
IDL.TG	rs181412360	15	59158953	C	0.255	0.038	3.52E-11	0.0027	48.4
IDL.TG	rs1815786	11	116921390	C	0.095	0.016	1.47E-09	0.0021	41.5
IDL.TG	rs181807530	17	4774814	G	0.232	0.032	9.01E-13	0.0032	55.0
IDL.TG	rs181847072	4	73134560	G	0.692	0.082	5.83E-17	0.0062	102.2
IDL.TG	rs183162020	4	73690263	G	0.861	0.115	1.99E-13	0.0086	85.0
IDL.TG	rs183305631	19	19597444	A	0.218	0.032	1.54E-11	0.0033	59.0
IDL.TG	rs1838504	15	58666410	T	0.099	0.010	1.20E-20	0.0049	94.4
IDL.TG	rs184650103	4	74850649	T	0.430	0.046	6.76E-20	0.0051	90.4
IDL.TG	rs1848922	2	21471603	C	0.113	0.013	7.08E-19	0.0044	84.5
IDL.TG	rs185049786	4	74644512	C	0.358	0.053	3.00E-11	0.0039	74.6
IDL.TG	rs1872741	15	59450895	T	0.073	0.013	3.91E-08	0.0017	32.2
IDL.TG	rs1883711	20	39179822	C	0.155	0.025	6.67E-10	0.0026	49.6
IDL.TG	rs189741280	19	19624481	G	0.199	0.030	5.27E-11	0.0029	56.1
IDL.TG	rs190121281	19	19252779	A	0.231	0.033	3.24E-12	0.0036	63.8
IDL.TG	rs190217562	4	75180409	C	0.327	0.040	1.00E-15	0.0040	72.1
IDL.TG	rs190934192	1	55334001	A	0.246	0.040	1.37E-09	0.0028	55.0
IDL.TG	rs191448950	1	55584844	A	0.319	0.032	4.51E-23	0.0053	103.5
IDL.TG	rs192570155	1	55246601	C	0.335	0.045	2.46E-13	0.0039	70.4
IDL.TG	rs193092110	15	58730460	A	0.206	0.036	1.26E-08	0.0020	35.6
IDL.TG	rs247617	16	56990716	A	0.084	0.011	4.51E-13	0.0029	56.3
IDL.TG	rs261334	15	58726744	C	0.197	0.012	1.09E-56	0.0138	270.1
IDL.TG	rs2642636	15	58363242	G	0.062	0.011	1.49E-08	0.0018	34.5
IDL.TG	rs28370984	15	58629308	C	0.215	0.032	3.09E-11	0.0026	49.7
IDL.TG	rs28395406	15	58629349	G	0.108	0.016	2.50E-11	0.0026	49.6
IDL.TG	rs2954029	8	126490972	T	0.083	0.010	1.36E-15	0.0035	67.2
IDL.TG	rs3005923	1	56801542	A	0.250	0.036	1.13E-11	0.0033	64.7
IDL.TG	rs4075673	2	21150787	C	0.102	0.010	5.92E-22	0.0050	97.5
IDL.TG	rs429358	19	45411941	C	0.122	0.014	3.02E-18	0.0042	81.1
IDL.TG	rs4609471	1	55493584	A	0.254	0.030	3.64E-17	0.0050	97.2
IDL.TG	rs61999891	15	58299599	A	0.103	0.017	5.16E-09	0.0022	42.0
IDL.TG	rs6511720	19	11202306	T	0.176	0.017	1.76E-23	0.0056	107.6
IDL.TG	rs6511721	19	11206575	A	0.070	0.011	5.20E-10	0.0025	47.4
IDL.TG	rs660240	1	109817838	C	0.079	0.012	5.70E-10	0.0021	40.1

IDL.TG	rs74073060	1	55638930	A	0.323	0.037	1.80E-17	0.0044	86.1
IDL.TG	rs7412	19	45412079	T	0.263	0.026	2.70E-23	0.0073	116.9
IDL.TG	rs7604788	2	21190024	T	0.195	0.022	4.58E-18	0.0044	84.8
IDL.TG	rs77021821	4	75684215	T	0.266	0.040	7.83E-11	0.0025	49.2
IDL.TG	rs79192207	2	21417897	C	0.087	0.014	7.29E-10	0.0021	40.5
IDL.TG	rs79225634	5	74619639	T	0.062	0.011	1.60E-08	0.0018	34.0
IDL.TG	rs79660716	15	58521171	G	0.205	0.027	1.68E-13	0.0035	66.9
IDL.TG	rs8042174	15	58685970	C	0.132	0.020	2.42E-10	0.0024	45.4
IDL.TG	rs8100204	19	19393714	A	0.118	0.016	1.88E-12	0.0032	61.1
IDL.TG	rs9302635	16	72144174	C	0.078	0.013	1.27E-08	0.0017	33.7
IDL.TG	rs964184	11	116648917	C	0.149	0.015	7.59E-24	0.0054	104.8
L.LDL.C	rs10424477	19	10636051	T	0.082	0.011	1.82E-12	0.0029	63.0
L.LDL.C	rs10449300	1	109381904	G	0.060	0.011	3.73E-08	0.0016	34.3
L.LDL.C	rs111740198	19	44878217	A	0.341	0.052	1.13E-10	0.0037	54.4
L.LDL.C	rs114664261	2	21410015	T	0.264	0.046	2.19E-08	0.0027	52.8
L.LDL.C	rs11587071	1	55522674	T	0.099	0.014	7.48E-13	0.0026	56.0
L.LDL.C	rs116054287	1	56401689	C	0.397	0.038	3.95E-25	0.0058	126.0
L.LDL.C	rs117261169	19	45491032	T	0.396	0.055	1.99E-12	0.0030	58.4
L.LDL.C	rs117569256	19	45423330	G	0.867	0.107	1.42E-15	0.0076	102.6
L.LDL.C	rs11878174	19	45723379	C	0.077	0.012	9.53E-11	0.0029	55.8
L.LDL.C	rs12043403	1	55431933	C	0.141	0.018	1.20E-14	0.0039	76.2
L.LDL.C	rs12086676	1	55738663	T	0.081	0.013	2.28E-10	0.0020	44.0
L.LDL.C	rs13014768	2	21514796	G	0.117	0.017	2.48E-12	0.0025	54.8
L.LDL.C	rs137992968	19	11239696	T	0.213	0.034	6.08E-10	0.0020	42.8
L.LDL.C	rs138270540	4	75353427	C	0.220	0.036	1.62E-09	0.0023	45.1
L.LDL.C	rs138287365	4	74781004	C	0.346	0.049	4.07E-12	0.0032	61.6
L.LDL.C	rs138525976	1	55960656	A	0.107	0.018	7.47E-09	0.0018	38.1
L.LDL.C	rs140339333	4	75396456	A	0.266	0.044	2.49E-09	0.0025	48.8
L.LDL.C	rs140411770	19	45356517	A	0.519	0.088	7.65E-09	0.0044	69.6
L.LDL.C	rs142130958	19	11190652	A	0.233	0.016	1.07E-44	0.0102	222.7
L.LDL.C	rs143413051	4	75560225	T	0.363	0.055	6.07E-11	0.0030	53.8
L.LDL.C	rs143736900	4	72871285	C	0.540	0.082	1.08E-10	0.0037	60.7
L.LDL.C	rs144064722	4	73406173	G	0.232	0.034	1.82E-11	0.0027	51.3
L.LDL.C	rs144591518	19	10518992	T	0.196	0.034	1.88E-08	0.0016	35.0
L.LDL.C	rs144721118	1	54196340	A	0.292	0.040	3.96E-13	0.0039	75.9
L.LDL.C	rs144900553	19	10798974	T	0.293	0.052	2.35E-08	0.0022	47.8
L.LDL.C	rs146568567	1	54824117	A	0.332	0.032	4.40E-25	0.0060	116.9
L.LDL.C	rs147319495	2	20912953	G	0.066	0.011	3.19E-09	0.0018	38.9
L.LDL.C	rs147825223	19	45479553	C	0.166	0.028	8.18E-09	0.0021	36.6
L.LDL.C	rs148359521	2	21414212	T	0.194	0.032	2.43E-09	0.0022	41.8
L.LDL.C	rs148382396	1	54639713	A	0.416	0.051	1.04E-15	0.0050	79.7
L.LDL.C	rs149048538	19	45053024	A	0.310	0.044	2.45E-12	0.0030	57.7
L.LDL.C	rs149844719	1	54519237	T	0.203	0.028	8.40E-13	0.0029	62.4
L.LDL.C	rs149944945	1	56129361	G	0.298	0.034	8.05E-18	0.0044	85.5
L.LDL.C	rs150785555	1	56005603	A	0.470	0.036	1.20E-38	0.0098	190.9
L.LDL.C	rs150966173	19	45421204	T	0.228	0.039	6.44E-09	0.0021	40.3
L.LDL.C	rs150985779	19	45147992	T	0.284	0.038	1.53E-13	0.0034	66.0

L.LDL.C	rs151330717	19	45196964	A	0.329	0.058	2.07E-08	0.0025	48.4
L.LDL.C	rs157594	19	45425175	G	0.138	0.012	3.63E-31	0.0092	179.3
L.LDL.C	rs17111503	1	55503448	G	0.077	0.013	6.09E-09	0.0019	41.4
L.LDL.C	rs180961170	1	57012269	G	0.380	0.052	4.36E-13	0.0040	71.6
L.LDL.C	rs181169081	2	21312870	A	0.192	0.032	2.83E-09	0.0021	41.2
L.LDL.C	rs181594442	1	57006537	A	0.380	0.052	4.36E-13	0.0040	71.6
L.LDL.C	rs181847072	4	73134560	G	0.537	0.082	9.04E-11	0.0037	61.4
L.LDL.C	rs182300850	1	54389320	C	0.401	0.060	4.12E-11	0.0038	56.6
L.LDL.C	rs183162020	4	73690263	G	0.722	0.115	6.81E-10	0.0060	59.6
L.LDL.C	rs183383492	19	11232974	C	0.352	0.063	3.52E-08	0.0019	33.5
L.LDL.C	rs184229638	19	45671925	A	0.688	0.115	3.24E-09	0.0042	50.6
L.LDL.C	rs184566992	19	44887996	T	0.371	0.052	2.06E-12	0.0041	64.9
L.LDL.C	rs184650103	4	74850649	T	0.381	0.046	5.88E-16	0.0040	71.0
L.LDL.C	rs185049786	4	74644512	C	0.323	0.053	2.07E-09	0.0031	60.6
L.LDL.C	rs185415345	1	56625395	A	0.171	0.027	6.61E-10	0.0026	50.1
L.LDL.C	rs185802315	19	10777054	G	0.235	0.036	1.30E-10	0.0026	46.1
L.LDL.C	rs186538116	1	56840574	C	0.441	0.045	2.06E-22	0.0065	116.1
L.LDL.C	rs188099946	19	45189605	T	0.276	0.045	1.65E-09	0.0020	42.3
L.LDL.C	rs189409600	19	45341066	T	0.746	0.103	1.00E-12	0.0059	82.8
L.LDL.C	rs189718275	19	45063850	A	0.323	0.044	4.55E-13	0.0033	63.6
L.LDL.C	rs190217562	4	75180409	C	0.293	0.040	6.82E-13	0.0032	57.7
L.LDL.C	rs190934192	1	55334001	A	0.399	0.040	7.10E-23	0.0075	144.8
L.LDL.C	rs191210370	1	54236244	G	0.236	0.038	7.05E-10	0.0026	50.7
L.LDL.C	rs191404723	1	54636232	T	0.415	0.051	9.32E-16	0.0046	80.4
L.LDL.C	rs191448950	1	55584844	A	0.498	0.032	1.03E-54	0.0119	258.4
L.LDL.C	rs192012905	19	44463485	G	0.362	0.053	1.19E-11	0.0033	59.4
L.LDL.C	rs192570155	1	55246601	C	0.511	0.045	3.38E-29	0.0092	164.7
L.LDL.C	rs193084249	1	26987646	G	0.180	0.031	1.48E-08	0.0020	38.8
L.LDL.C	rs2007708	19	45410420	A	0.852	0.104	6.39E-16	0.0057	104.5
L.LDL.C	rs207176	1	55791846	T	0.125	0.017	4.57E-13	0.0027	58.7
L.LDL.C	rs2207132	20	39142516	A	0.142	0.025	1.13E-08	0.0023	43.8
L.LDL.C	rs261334	15	58726744	C	0.070	0.012	6.63E-09	0.0017	37.2
L.LDL.C	rs2722641	19	44892775	A	0.262	0.044	5.32E-09	0.0029	52.2
L.LDL.C	rs2954022	8	126482621	A	0.058	0.010	6.03E-09	0.0017	36.1
L.LDL.C	rs2965149	19	45190766	C	0.068	0.011	1.82E-10	0.0022	47.3
L.LDL.C	rs2967668	19	45302951	G	0.187	0.017	1.28E-27	0.0078	151.7
L.LDL.C	rs312030	2	21462743	C	0.101	0.018	1.72E-08	0.0017	36.0
L.LDL.C	rs34042070	16	72101525	G	0.069	0.012	2.68E-08	0.0015	33.1
L.LDL.C	rs34722314	2	21271707	A	0.138	0.014	1.22E-21	0.0046	98.5
L.LDL.C	rs3741298	11	116657561	T	0.069	0.012	8.86E-09	0.0016	35.4
L.LDL.C	rs3935470	5	74352180	G	0.058	0.011	4.76E-08	0.0015	32.7
L.LDL.C	rs404935	19	45372794	A	0.157	0.017	2.82E-19	0.0044	94.4
L.LDL.C	rs429358	19	45411941	C	0.208	0.013	2.54E-53	0.0122	266.6
L.LDL.C	rs4426495	2	21143982	T	0.064	0.010	3.82E-10	0.0019	41.4
L.LDL.C	rs4609471	1	55493584	A	0.401	0.030	1.78E-40	0.0125	243.3
L.LDL.C	rs4803748	19	45247048	T	0.080	0.011	1.64E-13	0.0030	64.9
L.LDL.C	rs4804573	19	11277232	A	0.057	0.010	2.60E-08	0.0016	35.3
L.LDL.C	rs495828	9	136154867	T	0.072	0.012	1.61E-09	0.0018	38.5

L.LDL.C	rs58446550	19	45328380	A	0.070	0.011	9.41E-11	0.0022	48.4
L.LDL.C	rs58996925	1	56267033	G	0.062	0.011	2.38E-08	0.0016	34.0
L.LDL.C	rs61770425	1	55085125	G	0.083	0.012	1.26E-11	0.0023	50.1
L.LDL.C	rs62117161	19	45233385	G	0.217	0.020	5.38E-27	0.0060	130.5
L.LDL.C	rs62120794	2	21100426	T	0.185	0.024	3.51E-14	0.0031	62.1
L.LDL.C	rs629301	1	109818306	T	0.128	0.012	4.36E-26	0.0056	121.6
L.LDL.C	rs6511721	19	11206575	A	0.091	0.011	1.76E-16	0.0041	88.9
L.LDL.C	rs6663252	1	55630151	C	0.087	0.012	2.33E-12	0.0025	54.2
L.LDL.C	rs6756629	2	44065090	A	0.141	0.018	2.03E-14	0.0029	62.2
L.LDL.C	rs6859	19	45382034	G	0.079	0.010	2.22E-15	0.0031	67.6
L.LDL.C	rs7255743	19	46018119	A	0.183	0.032	1.93E-08	0.0017	36.8
L.LDL.C	rs73048351	19	45160086	A	0.419	0.064	1.57E-10	0.0031	59.4
L.LDL.C	rs73066442	7	21592973	G	0.073	0.011	2.90E-10	0.0020	43.0
L.LDL.C	rs73556990	19	44888175	G	0.346	0.052	8.47E-11	0.0040	56.9
L.LDL.C	rs73564218	19	45665952	C	0.167	0.030	4.33E-08	0.0018	32.8
L.LDL.C	rs74073060	1	55638930	A	0.496	0.037	2.63E-39	0.0105	204.6
L.LDL.C	rs7412	19	45412079	T	0.573	0.025	#####	0.0347	657.1
L.LDL.C	rs75647206	1	56947591	T	0.382	0.050	4.90E-14	0.0038	74.1
L.LDL.C	rs7604788	2	21190024	T	0.183	0.022	2.55E-16	0.0036	77.8
L.LDL.C	rs76488675	1	56885874	G	0.134	0.024	2.5E-08	0.0020	38.9
L.LDL.C	rs76670936	19	45196581	A	0.144	0.018	1.9E-14	0.0034	73.1
L.LDL.C	rs77021821	4	75684215	T	0.242	0.040	3.3E-09	0.0021	40.7
L.LDL.C	rs79225634	5	74619639	T	0.086	0.010	4.4E-16	0.0033	72.0
L.LDL.C	rs79668907	19	11257169	T	0.092	0.012	4E-13	0.0031	67.8
L.LDL.C	rs79890446	19	45723446	T	0.248	0.033	1.5E-13	0.0038	73.4
L.LDL.C	rs8106814	19	45441608	C	0.103	0.014	1.6E-12	0.0037	70.9
L.LDL.C	rs8111962	19	10915324	T	0.102	0.014	4E-13	0.0027	57.4
L.LDL.C	rs934197	2	21267461	A	0.114	0.011	1.7E-24	0.0053	114.8
L.LDL.C	rs9749236	19	45524553	C	0.441	0.075	8.4E-09	0.0024	45.2
L.LDL.C	rs984976	5	74910870	G	0.071	0.010	1.5E-12	0.0025	53.8
M.HDL.C	rs117040820	16	57005762	T	0.320	0.052	1.1E-09	0.0027	52.4
M.HDL.C	rs1800777	16	57017319	A	0.233	0.035	5.1E-11	0.0026	50.8
M.HDL.C	rs2126259	8	9185146	C	0.094	0.014	1.4E-10	0.0020	43.1
M.HDL.C	rs247617	16	56990716	A	0.165	0.011	7.6E-52	0.0114	249.2
M.HDL.C	rs286	8	19815256	T	0.124	0.021	4.2E-09	0.0018	39.2
M.HDL.C	rs28888131	16	56991624	A	0.123	0.013	1.3E-19	0.0042	91.9
M.HDL.C	rs289743	16	57017796	A	0.060	0.010	1.1E-08	0.0016	34.7
M.HDL.C	rs34932218	8	19855661	G	0.064	0.011	1.2E-08	0.0016	34.2
M.HDL.C	rs429358	19	45411941	C	0.083	0.013	7.3E-10	0.0020	42.3
M.HDL.C	rs4939883	18	47167214	C	0.073	0.013	2.3E-08	0.0015	32.4
M.HDL.C	rs590820	1	230309619	G	0.058	0.010	1.7E-08	0.0016	35.3
M.HDL.C	rs7499892	16	57006590	T	0.171	0.013	1.5E-38	0.0085	184.0
M.HDL.C	rs75835816	8	19885513	C	0.238	0.038	6.3E-10	0.0022	41.6
IDL.C	rs10424477	19	10636051	T	0.083	0.012	5.1E-12	0.0029	56.7
IDL.C	rs10449300	1	109381904	G	0.066	0.011	6E-09	0.0019	37.2
IDL.C	rs111740198	19	44878217	A	0.327	0.052	6.2E-10	0.0034	50.1
IDL.C	rs114664261	2	21410015	T	0.259	0.047	4.1E-08	0.0026	50.8
IDL.C	rs11579068	1	55780213	C	0.106	0.014	9.1E-14	0.0030	57.6

IDL.C	rs116054287	1	56401689	C	0.400	0.038	1.1E-24	0.0062	120.8
IDL.C	rs117261169	19	45491032	T	0.367	0.055	6.9E-11	0.0026	50.3
IDL.C	rs11748027	5	74909972	T	0.072	0.010	6.2E-12	0.0026	49.6
IDL.C	rs117569256	19	45423330	G	0.780	0.107	7.2E-13	0.0061	82.9
IDL.C	rs11878174	19	45723379	C	0.076	0.012	1.3E-10	0.0028	55.0
IDL.C	rs12043403	1	55431933	C	0.132	0.018	4.5E-13	0.0035	67.1
IDL.C	rs12086676	1	55738663	T	0.084	0.013	1.8E-10	0.0022	43.2
IDL.C	rs137992968	19	11239696	T	0.228	0.035	1.3E-10	0.0023	44.4
IDL.C	rs138287365	4	74781004	C	0.305	0.049	1E-09	0.0025	47.8
IDL.C	rs138525976	1	55960656	A	0.115	0.019	1.6E-09	0.0021	40.7
IDL.C	rs142130958	19	11190652	A	0.238	0.017	4.2E-42	0.0103	201.3
IDL.C	rs143413051	4	75560225	T	0.313	0.055	1.7E-08	0.0022	40.0
IDL.C	rs144545816	2	21413077	A	0.093	0.012	1.7E-14	0.0033	63.1
IDL.C	rs144721118	1	54196340	A	0.297	0.040	1.8E-13	0.0040	78.2
IDL.C	rs144900553	19	10798974	T	0.346	0.053	1.6E-10	0.0030	58.5
IDL.C	rs146568567	1	54824117	A	0.328	0.032	1.7E-24	0.0059	114.2
IDL.C	rs148359521	2	21414212	T	0.203	0.032	4E-10	0.0024	46.0
IDL.C	rs148382396	1	54639713	A	0.419	0.051	6.7E-16	0.0051	80.8
IDL.C	rs149048538	19	45053024	A	0.311	0.044	2.2E-12	0.0030	58.0
IDL.C	rs149844719	1	54519237	T	0.207	0.028	4.6E-13	0.0032	62.4
IDL.C	rs149944945	1	56129361	G	0.289	0.034	7.9E-17	0.0042	80.5
IDL.C	rs150966173	19	45421204	T	0.221	0.039	1.9E-08	0.0020	37.9
IDL.C	rs150985779	19	45147992	T	0.271	0.038	1.8E-12	0.0031	60.1
IDL.C	rs151193598	4	73303394	A	0.507	0.085	4.8E-09	0.0039	55.7
IDL.C	rs1532085	15	58683366	G	0.091	0.011	2.1E-17	0.0040	76.5
IDL.C	rs157594	19	45425175	G	0.136	0.012	3.7E-30	0.0089	173.3
IDL.C	rs16940213	15	58695337	T	0.080	0.013	4.7E-09	0.0018	35.7
IDL.C	rs180961170	1	57012269	G	0.375	0.052	9.5E-13	0.0039	69.6
IDL.C	rs181169081	2	21312870	A	0.202	0.032	4E-10	0.0024	45.7
IDL.C	rs181594442	1	57006537	A	0.375	0.052	9.4E-13	0.0039	69.6
IDL.C	rs182300850	1	54389320	C	0.419	0.060	5.6E-12	0.0041	61.7
IDL.C	rs182896710	19	10962613	T	0.182	0.032	2.5E-08	0.0021	40.7
IDL.C	rs183162020	4	73690263	G	0.651	0.115	2.8E-08	0.0049	48.4
IDL.C	rs183305631	19	19597444	A	0.186	0.032	1E-08	0.0024	42.6
IDL.C	rs183383492	19	11232974	C	0.362	0.063	1.5E-08	0.0020	35.5
IDL.C	rs184229638	19	45671925	A	0.663	0.115	1.2E-08	0.0038	46.9
IDL.C	rs184566992	19	44887996	T	0.353	0.052	2.4E-11	0.0037	58.7
IDL.C	rs184650103	4	74850649	T	0.327	0.046	3.8E-12	0.0029	52.4
IDL.C	rs185415345	1	56625395	A	0.164	0.027	3.2E-09	0.0024	46.2
IDL.C	rs186538116	1	56840574	C	0.439	0.045	3E-22	0.0064	115.3
IDL.C	rs188026950	1	55939497	A	0.463	0.036	9.3E-38	0.0096	186.5
IDL.C	rs1883711	20	39179822	C	0.149	0.025	3E-09	0.0024	45.7
IDL.C	rs189409600	19	45341066	T	0.650	0.103	5.3E-10	0.0045	62.8
IDL.C	rs189524519	19	11002852	G	0.263	0.041	2.7E-10	0.0026	47.1
IDL.C	rs189718275	19	45063850	A	0.322	0.044	5.5E-13	0.0033	63.2
IDL.C	rs190121281	19	19252779	A	0.197	0.033	2.8E-09	0.0026	46.4
IDL.C	rs190217562	4	75180409	C	0.254	0.040	5.1E-10	0.0024	43.3

IDL.C	rs190425759	19	10644246	A	0.219	0.035	1.1E-09	0.0022	41.6
IDL.C	rs190934192	1	55334001	A	0.388	0.040	1.2E-21	0.0070	136.7
IDL.C	rs191210370	1	54236244	G	0.250	0.038	6.5E-11	0.0029	56.9
IDL.C	rs191404723	1	54636232	T	0.416	0.051	8.9E-16	0.0046	80.5
IDL.C	rs191448950	1	55584844	A	0.484	0.032	2.1E-51	0.0123	240.3
IDL.C	rs192012905	19	44463485	G	0.347	0.053	8.1E-11	0.0031	54.6
IDL.C	rs192570155	1	55246601	C	0.500	0.045	5.2E-28	0.0088	158.0
IDL.C	rs2007708	19	45410420	A	0.751	0.104	1.1E-12	0.0044	80.9
IDL.C	rs2287029	19	10916684	T	0.109	0.015	2.2E-13	0.0029	56.6
IDL.C	rs2479410	1	55505861	A	0.081	0.012	8.1E-11	0.0026	50.3
IDL.C	rs261334	15	58726744	C	0.119	0.012	2E-21	0.0050	97.0
IDL.C	rs2722641	19	44892775	A	0.253	0.044	2E-08	0.0027	48.4
IDL.C	rs2965149	19	45190766	C	0.070	0.011	4.6E-10	0.0023	44.3
IDL.C	rs2967668	19	45302951	G	0.172	0.017	1.4E-23	0.0066	128.2
IDL.C	rs2980860	8	126485337	G	0.065	0.010	5.2E-10	0.0021	40.6
IDL.C	rs312030	2	21462743	C	0.106	0.018	8.7E-09	0.0019	36.0
IDL.C	rs35913552	2	21272896	A	0.143	0.015	3.9E-21	0.0049	94.6
IDL.C	rs395908	19	45373565	A	0.161	0.018	2.6E-18	0.0044	85.7
IDL.C	rs429358	19	45411941	C	0.183	0.014	5.9E-39	0.0094	182.2
IDL.C	rs4609471	1	55493584	A	0.394	0.030	4.5E-39	0.0120	234.6
IDL.C	rs4803748	19	45247048	T	0.071	0.011	2.4E-10	0.0024	45.7
IDL.C	rs4804573	19	11277232	A	0.059	0.011	4.5E-08	0.0017	33.2
IDL.C	rs565436	1	55524601	A	0.089	0.012	3.8E-13	0.0029	56.4
IDL.C	rs58446550	19	45328380	A	0.065	0.011	2.9E-09	0.0020	38.0
IDL.C	rs61770425	1	55085125	G	0.086	0.013	1.3E-11	0.0026	49.3
IDL.C	rs62117161	19	45233385	G	0.195	0.021	6.2E-21	0.0049	95.3
IDL.C	rs62120794	2	21100426	T	0.182	0.024	1.9E-13	0.0032	56.9
IDL.C	rs62523994	8	145026582	A	0.060	0.011	2.3E-08	0.0017	33.2
IDL.C	rs629301	1	109818306	T	0.127	0.012	7.5E-24	0.0055	105.7
IDL.C	rs635634	9	136155000	T	0.083	0.013	2.1E-10	0.0022	42.4
IDL.C	rs6511721	19	11206575	A	0.086	0.011	1.9E-14	0.0037	71.9
IDL.C	rs6663252	1	55630151	C	0.091	0.012	5E-13	0.0029	55.1
IDL.C	rs6732011	2	21146521	T	0.074	0.011	3.6E-12	0.0026	50.3
IDL.C	rs6756629	2	44065090	A	0.129	0.019	1.7E-11	0.0025	47.8
IDL.C	rs6859	19	45382034	G	0.071	0.010	1.1E-11	0.0025	49.1
IDL.C	rs7255743	19	46018119	A	0.181	0.033	4.6E-08	0.0018	34.2
IDL.C	rs72740818	15	58654303	C	0.058	0.010	4.4E-08	0.0017	32.0
IDL.C	rs73048351	19	45160086	A	0.377	0.064	8.5E-09	0.0025	48.1
IDL.C	rs73556990	19	44888175	G	0.329	0.052	6.4E-10	0.0036	51.6
IDL.C	rs74073060	1	55638930	A	0.487	0.037	6.7E-38	0.0101	197.0
IDL.C	rs7412	19	45412079	T	0.533	0.026	5.1E-92	0.0298	490.8
IDL.C	rs75647206	1	56947591	T	0.379	0.050	7.9E-14	0.0038	72.9
IDL.C	rs7604788	2	21190024	T	0.189	0.022	3.8E-17	0.0041	80.1
IDL.C	rs76488675	1	56885874	G	0.147	0.024	1.1E-09	0.0024	46.6
IDL.C	rs76670936	19	45196581	A	0.142	0.019	2.1E-13	0.0033	63.0
IDL.C	rs7786322	7	21592766	T	0.070	0.012	9E-09	0.0018	35.1
IDL.C	rs78620068	2	21524000	A	0.131	0.019	4.7E-12	0.0027	52.3

IDL.C	rs79225634	5	74619639	T	0.090	0.011	2.5E-16	0.0037	71.5
IDL.C	rs79668907	19	11257169	T	0.084	0.013	1.1E-10	0.0026	50.6
IDL.C	rs79890446	19	45723446	T	0.238	0.033	1.3E-12	0.0035	67.8
IDL.C	rs8106814	19	45441608	C	0.095	0.014	9.4E-11	0.0031	59.6
IDL.C	rs952275	2	21221399	G	0.109	0.010	3.6E-25	0.0058	112.4
XS.VLDL.TG	rs11076176	16	57007446	G	0.090	0.014	8.7E-10	0.0022	42.0
XS.VLDL.TG	rs11096689	2	21140540	T	0.097	0.012	1.6E-16	0.0037	71.6
XS.VLDL.TG	rs113531395	17	4886829	T	0.215	0.036	5.3E-09	0.0024	45.6
XS.VLDL.TG	rs115849089	8	19912370	A	0.156	0.017	3.4E-19	0.0044	86.0
XS.VLDL.TG	rs116802199	17	4801101	C	0.197	0.032	1.1E-09	0.0022	40.7
XS.VLDL.TG	rs1168041	1	62960250	C	0.094	0.012	4E-15	0.0035	67.2
XS.VLDL.TG	rs1260326	2	27730940	C	0.081	0.011	6.6E-14	0.0030	58.8
XS.VLDL.TG	rs1268353	11	116639692	T	0.081	0.011	2.5E-14	0.0031	60.7
XS.VLDL.TG	rs12747477	1	55448248	A	0.219	0.033	9.9E-11	0.0027	52.5
XS.VLDL.TG	rs138287365	4	74781004	C	0.313	0.049	3.9E-10	0.0026	50.3
XS.VLDL.TG	rs143413051	4	75560225	T	0.308	0.055	2.9E-08	0.0022	38.8
XS.VLDL.TG	rs143736900	4	72871285	C	0.593	0.082	1.3E-12	0.0044	73.5
XS.VLDL.TG	rs146695330	19	20139610	A	0.215	0.035	1.5E-09	0.0027	48.0
XS.VLDL.TG	rs150536132	19	19679560	T	0.181	0.030	1.8E-09	0.0028	49.2
XS.VLDL.TG	rs150617279	19	20139234	A	0.118	0.017	1.9E-11	0.0027	52.7
XS.VLDL.TG	rs150785555	1	56005603	A	0.229	0.036	3.2E-10	0.0023	44.8
XS.VLDL.TG	rs151007118	11	116583864	T	0.221	0.033	8.6E-11	0.0025	48.6
XS.VLDL.TG	rs151193598	4	73303394	A	0.531	0.086	9.5E-10	0.0043	61.2
XS.VLDL.TG	rs157594	19	45425175	G	0.111	0.012	1.1E-20	0.0060	116.0
XS.VLDL.TG	rs17216525	19	19662220	T	0.143	0.021	1.4E-11	0.0025	47.9
XS.VLDL.TG	rs174418	15	58687603	C	0.088	0.010	1.5E-16	0.0038	73.1
XS.VLDL.TG	rs181169081	2	21312870	A	0.213	0.032	5.1E-11	0.0026	50.5
XS.VLDL.TG	rs181847072	4	73134560	G	0.595	0.082	6.8E-13	0.0045	75.4
XS.VLDL.TG	rs183162020	4	73690263	G	0.711	0.116	1.5E-09	0.0059	57.8
XS.VLDL.TG	rs183305631	19	19597444	A	0.212	0.032	6.1E-11	0.0031	55.7
XS.VLDL.TG	rs1838504	15	58666410	T	0.069	0.010	7E-11	0.0024	46.3
XS.VLDL.TG	rs184650103	4	74850649	T	0.340	0.046	5.7E-13	0.0032	56.5
XS.VLDL.TG	rs1848922	2	21471603	C	0.093	0.013	4E-13	0.0029	56.6
XS.VLDL.TG	rs1883711	20	39179822	C	0.149	0.025	3.3E-09	0.0024	45.6
XS.VLDL.TG	rs188651594	11	116673091	A	0.267	0.042	5.5E-10	0.0025	45.2
XS.VLDL.TG	rs189741280	19	19624481	G	0.188	0.030	5.5E-10	0.0026	50.2
XS.VLDL.TG	rs190121281	19	19252779	A	0.210	0.033	2.3E-10	0.0030	53.0
XS.VLDL.TG	rs190217562	4	75180409	C	0.251	0.040	7.5E-10	0.0024	42.5
XS.VLDL.TG	rs191164477	2	21267593	T	0.212	0.032	3.8E-11	0.0026	51.0
XS.VLDL.TG	rs193260502	11	116611138	A	0.216	0.038	2.6E-08	0.0023	44.1
XS.VLDL.TG	rs247617	16	56990716	A	0.116	0.011	2.2E-23	0.0055	106.9
XS.VLDL.TG	rs261334	15	58726744	C	0.118	0.012	2.9E-21	0.0050	96.3
XS.VLDL.TG	rs2878419	5	74640490	T	0.061	0.010	9E-09	0.0018	35.0
XS.VLDL.TG	rs2954029	8	126490972	T	0.086	0.010	2.8E-16	0.0037	70.6
XS.VLDL.TG	rs34041051	19	45442349	C	0.067	0.011	8.9E-09	0.0021	39.7
XS.VLDL.TG	rs34346326	7	73016181	C	0.076	0.014	3.6E-08	0.0017	31.9
XS.VLDL.TG	rs429358	19	45411941	C	0.108	0.014	1.7E-14	0.0033	63.1
XS.VLDL.TG	rs4609471	1	55493584	A	0.173	0.030	1E-08	0.0023	45.0

XS.VLDL.TG	rs58542926	19	19379549	T	0.153	0.021	7.9E-13	0.0028	53.6
XS.VLDL.TG	rs62123892	2	21084445	T	0.090	0.016	2.2E-08	0.0018	33.9
XS.VLDL.TG	rs6511720	19	11202306	T	0.145	0.017	1.9E-16	0.0038	73.1
XS.VLDL.TG	rs6511721	19	11206575	A	0.064	0.011	1.4E-08	0.0020	39.5
XS.VLDL.TG	rs6544366	2	21204025	T	0.121	0.011	2.9E-25	0.0058	112.3
XS.VLDL.TG	rs7115242	11	116908283	G	0.125	0.016	5E-15	0.0034	66.7
XS.VLDL.TG	rs72660594	1	55636240	C	0.201	0.029	7.2E-12	0.0027	52.9
XS.VLDL.TG	rs74073060	1	55638930	A	0.229	0.037	1.8E-09	0.0022	43.2
XS.VLDL.TG	rs77182215	11	116942366	A	0.165	0.029	1.6E-08	0.0019	37.6
XS.VLDL.TG	rs79202680	17	4692640	T	0.217	0.035	7.9E-10	0.0023	44.9
XS.VLDL.TG	rs964184	11	116648917	C	0.216	0.015	9.4E-49	0.0114	222.7
S.VLDL.TG	rs10401845	19	11191536	C	0.078	0.013	5.2E-09	0.0018	38.2
S.VLDL.TG	rs1042034	2	21225281	T	0.105	0.011	1.3E-20	0.0042	91.0
S.VLDL.TG	rs111648015	8	19724434	T	0.168	0.030	3.3E-08	0.0018	38.3
S.VLDL.TG	rs112030397	19	8582383	G	0.082	0.014	8.4E-09	0.0017	35.8
S.VLDL.TG	rs113560866	11	117015189	C	0.082	0.014	1.3E-08	0.0017	37.5
S.VLDL.TG	rs115849089	8	19912370	A	0.176	0.017	1.6E-25	0.0059	129.0
S.VLDL.TG	rs1168041	1	62960250	C	0.086	0.011	3.8E-14	0.0030	64.1
S.VLDL.TG	rs116843064	19	8429323	A	0.211	0.035	2.5E-09	0.0025	48.9
S.VLDL.TG	rs117001569	8	19574920	G	0.232	0.041	2.6E-08	0.0017	33.7
S.VLDL.TG	rs1240659	11	116493950	G	0.071	0.013	4.5E-08	0.0016	34.2
S.VLDL.TG	rs1260326	2	27730940	C	0.099	0.010	6.2E-22	0.0046	98.8
S.VLDL.TG	rs1268353	11	116639692	T	0.085	0.010	5.1E-17	0.0034	74.0
S.VLDL.TG	rs12997242	2	21381177	A	0.062	0.010	2.7E-09	0.0017	37.7
S.VLDL.TG	rs145106713	8	19942183	T	0.257	0.042	2.3E-09	0.0020	38.8
S.VLDL.TG	rs150617279	19	20139234	A	0.106	0.017	1.3E-09	0.0022	42.8
S.VLDL.TG	rs151007118	11	116583864	T	0.268	0.033	2.5E-15	0.0037	71.6
S.VLDL.TG	rs17216525	19	19662220	T	0.137	0.020	1E-11	0.0023	49.5
S.VLDL.TG	rs188651594	11	116673091	A	0.312	0.042	3.1E-13	0.0035	61.8
S.VLDL.TG	rs2980853	8	126478350	C	0.072	0.010	4.1E-13	0.0026	56.3
S.VLDL.TG	rs34346326	7	73016181	C	0.113	0.014	1.1E-14	0.0031	67.0
S.VLDL.TG	rs36229786	16	56993901	C	0.086	0.014	1.3E-09	0.0020	43.0
S.VLDL.TG	rs3826688	19	45418961	C	0.090	0.011	1.4E-15	0.0035	76.5
S.VLDL.TG	rs429358	19	45411941	C	0.106	0.013	5.8E-15	0.0032	68.6
S.VLDL.TG	rs4341893	2	21135577	G	0.066	0.010	4.7E-10	0.0019	41.1
S.VLDL.TG	rs5167	19	45448465	G	0.058	0.010	3.8E-08	0.0016	31.8
S.VLDL.TG	rs579674	11	116528224	G	0.081	0.013	2.8E-10	0.0020	43.7
S.VLDL.TG	rs6065904	20	44534651	A	0.076	0.012	1.6E-10	0.0020	43.8
S.VLDL.TG	rs61905067	11	116578982	G	0.235	0.039	2E-09	0.0021	45.5
S.VLDL.TG	rs7115242	11	116908283	G	0.127	0.016	8.8E-16	0.0033	71.9
S.VLDL.TG	rs72836561	17	41926126	T	0.215	0.036	3.1E-09	0.0023	43.5
S.VLDL.TG	rs72999033	19	19366632	T	0.155	0.021	3.4E-13	0.0027	57.8
S.VLDL.TG	rs77182215	11	116942366	A	0.205	0.029	1.6E-12	0.0030	58.3
S.VLDL.TG	rs7826306	8	19900671	C	0.064	0.010	1.4E-09	0.0018	39.1
S.VLDL.TG	rs821840	16	56993886	G	0.109	0.012	3.1E-20	0.0046	99.1
S.VLDL.TG	rs9472125	6	43756169	T	0.095	0.016	5.6E-09	0.0025	48.6
S.VLDL.TG	rs964184	11	116648917	C	0.242	0.014	7.6E-66	0.0140	305.7
S.VLDL.C	rs1042034	2	21225281	T	0.107	0.011	2.1E-21	0.0044	94.6

S.VLDL.C	rs115849089	8	19912370	A	0.125	0.017	1.6E-13	0.0030	64.4
S.VLDL.C	rs11591147	1	55505647	T	0.338	0.035	1E-21	0.0068	109.3
S.VLDL.C	rs116054287	1	56401689	C	0.242	0.038	2.7E-10	0.0022	46.6
S.VLDL.C	rs1168041	1	62960250	C	0.076	0.011	1.9E-11	0.0023	50.4
S.VLDL.C	rs118146573	16	57000938	A	0.120	0.017	2.5E-12	0.0025	53.9
S.VLDL.C	rs11881315	19	10909953	T	0.074	0.013	1.2E-08	0.0016	35.1
S.VLDL.C	rs1260326	2	27730940	C	0.074	0.010	7.6E-13	0.0025	54.5
S.VLDL.C	rs1268353	11	116639692	T	0.066	0.010	5.4E-11	0.0021	45.2
S.VLDL.C	rs1367117	2	21263900	A	0.098	0.011	1E-18	0.0040	85.5
S.VLDL.C	rs138287365	4	74781004	C	0.301	0.049	1.5E-09	0.0024	46.5
S.VLDL.C	rs140339333	4	75396456	A	0.259	0.044	5.8E-09	0.0024	46.3
S.VLDL.C	rs142130958	19	11190652	A	0.173	0.016	2.4E-25	0.0056	122.0
S.VLDL.C	rs143413051	4	75560225	T	0.345	0.055	4.3E-10	0.0027	48.6
S.VLDL.C	rs143736900	4	72871285	C	0.520	0.082	4.3E-10	0.0034	56.4
S.VLDL.C	rs146568567	1	54824117	A	0.221	0.032	5.8E-12	0.0027	51.5
S.VLDL.C	rs150103689	1	56105434	G	0.327	0.044	1.5E-13	0.0036	63.7
S.VLDL.C	rs150617279	19	20139234	A	0.107	0.017	8.5E-10	0.0023	43.6
S.VLDL.C	rs151007118	11	116583864	T	0.214	0.033	2.4E-10	0.0024	45.8
S.VLDL.C	rs151193598	4	73303394	A	0.528	0.085	9.5E-10	0.0043	60.4
S.VLDL.C	rs157594	19	45425175	G	0.102	0.012	1.1E-17	0.0050	96.9
S.VLDL.C	rs17216525	19	19662220	T	0.131	0.020	7.3E-11	0.0021	45.3
S.VLDL.C	rs17414716	1	55759138	G	0.281	0.033	1.4E-17	0.0038	82.6
S.VLDL.C	rs181847072	4	73134560	G	0.522	0.082	2.6E-10	0.0035	57.9
S.VLDL.C	rs183162020	4	73690263	G	0.682	0.115	5.2E-09	0.0054	53.1
S.VLDL.C	rs183305631	19	19597444	A	0.184	0.032	1.3E-08	0.0023	41.7
S.VLDL.C	rs184650103	4	74850649	T	0.346	0.046	1.6E-13	0.0033	58.6
S.VLDL.C	rs188357577	4	75417188	G	0.335	0.051	9.4E-11	0.0026	50.8
S.VLDL.C	rs188651594	11	116673091	A	0.254	0.042	3.1E-09	0.0023	40.8
S.VLDL.C	rs190934192	1	55334001	A	0.250	0.040	6.7E-10	0.0029	56.5
S.VLDL.C	rs192570155	1	55246601	C	0.325	0.045	9.3E-13	0.0037	66.4
S.VLDL.C	rs2980875	8	126481747	G	0.067	0.010	1.8E-11	0.0022	47.9
S.VLDL.C	rs3005923	1	56801542	A	0.222	0.036	1.5E-09	0.0026	50.9
S.VLDL.C	rs312030	2	21462743	C	0.110	0.018	5.4E-10	0.0020	43.4
S.VLDL.C	rs3764261	16	56993324	A	0.103	0.011	4E-21	0.0044	95.4
S.VLDL.C	rs429358	19	45411941	C	0.138	0.013	2.2E-24	0.0054	116.6
S.VLDL.C	rs4609471	1	55493584	A	0.251	0.030	8.4E-17	0.0049	94.3
S.VLDL.C	rs562338	2	21288321	G	0.083	0.013	9.7E-11	0.0021	44.8
S.VLDL.C	rs61905067	11	116578982	G	0.222	0.039	1.5E-08	0.0019	40.6
S.VLDL.C	rs62123892	2	21084445	T	0.092	0.015	4.6E-09	0.0018	37.9
S.VLDL.C	rs646776	1	109818530	T	0.070	0.012	5.6E-09	0.0017	36.8
S.VLDL.C	rs6511721	19	11206575	A	0.068	0.011	5.3E-10	0.0023	50.2
S.VLDL.C	rs6720307	2	20921334	C	0.061	0.010	2.9E-09	0.0018	38.1
S.VLDL.C	rs7115242	11	116908283	G	0.103	0.016	6.2E-11	0.0022	47.5
S.VLDL.C	rs72999033	19	19366632	T	0.147	0.021	4.8E-12	0.0024	52.1
S.VLDL.C	rs74073060	1	55638930	A	0.308	0.037	4E-16	0.0040	78.3
S.VLDL.C	rs7412	19	45412079	T	0.235	0.025	6.6E-20	0.0058	107.2
S.VLDL.C	rs77021821	4	75684215	T	0.231	0.040	1.5E-08	0.0019	37.0
S.VLDL.C	rs79225634	5	74619639	T	0.078	0.010	1.7E-13	0.0027	58.9

S.VLDL.C	rs964184	11	116648917	C	0.188	0.014	2.3E-40	0.0084	183.7
S.VLDL.C	rs984976	5	74910870	G	0.071	0.010	1.4E-12	0.0025	53.7
M.VLDL.TG	rs1168001	1	62933758	A	0.072	0.011	2.6E-11	0.0022	46.5
M.VLDL.TG	rs116843064	19	8429323	A	0.210	0.035	3.4E-09	0.0025	47.5
M.VLDL.TG	rs1260326	2	27730940	C	0.095	0.010	6.8E-20	0.0041	88.1
M.VLDL.TG	rs1268353	11	116639692	T	0.079	0.010	1E-14	0.0029	62.4
M.VLDL.TG	rs149611002	8	19986935	T	0.248	0.042	6.4E-09	0.0022	42.0
M.VLDL.TG	rs150617279	19	20139234	A	0.096	0.017	4.1E-08	0.0018	34.6
M.VLDL.TG	rs151007118	11	116583864	T	0.246	0.034	4.7E-13	0.0031	59.2
M.VLDL.TG	rs17120347	11	116996539	A	0.091	0.015	7.4E-10	0.0019	40.5
M.VLDL.TG	rs17216525	19	19662220	T	0.120	0.020	2.6E-09	0.0018	37.5
M.VLDL.TG	rs188632579	11	116611098	C	0.256	0.046	3.7E-08	0.0017	33.6
M.VLDL.TG	rs188651594	11	116673091	A	0.277	0.043	1.2E-10	0.0027	47.6
M.VLDL.TG	rs34121855	7	73040814	G	0.117	0.013	2E-18	0.0039	83.4
M.VLDL.TG	rs42121	7	72842267	T	0.107	0.018	7.7E-09	0.0024	45.3
M.VLDL.TG	rs439401	19	45414451	C	0.080	0.011	1.2E-12	0.0027	57.8
M.VLDL.TG	rs579674	11	116528224	G	0.081	0.013	3.6E-10	0.0020	42.7
M.VLDL.TG	rs59007384	19	45396665	T	0.069	0.012	1.2E-08	0.0017	36.2
M.VLDL.TG	rs6065904	20	44534651	A	0.077	0.012	9.1E-11	0.0021	44.5
M.VLDL.TG	rs61905067	11	116578982	G	0.222	0.039	1.7E-08	0.0019	40.0
M.VLDL.TG	rs6586886	8	19875408	A	0.058	0.010	2.4E-08	0.0016	33.1
M.VLDL.TG	rs673548	2	21237544	A	0.080	0.011	2.4E-12	0.0024	51.1
M.VLDL.TG	rs7115242	11	116908283	G	0.114	0.016	4.1E-13	0.0027	57.8
M.VLDL.TG	rs72999033	19	19366632	T	0.138	0.021	9E-11	0.0021	45.4
M.VLDL.TG	rs77182215	11	116942366	A	0.205	0.029	2.4E-12	0.0030	56.7
M.VLDL.TG	rs77697917	17	41840849	T	0.209	0.037	2.8E-08	0.0020	37.7
M.VLDL.TG	rs79236614	8	19860460	G	0.166	0.017	1.6E-21	0.0045	96.2
M.VLDL.TG	rs821840	16	56993886	G	0.070	0.012	3.3E-09	0.0019	40.4
M.VLDL.TG	rs9472125	6	43756169	T	0.091	0.016	2.6E-08	0.0023	43.9
M.VLDL.TG	rs964184	11	116648917	C	0.228	0.014	2.4E-58	0.0124	266.9
S.LDL.C	rs10180633	2	21144829	T	0.065	0.010	1.6E-10	0.0020	42.8
S.LDL.C	rs10402524	19	45329344	C	0.065	0.010	1.1E-09	0.0019	41.6
S.LDL.C	rs10424477	19	10636051	T	0.072	0.011	5E-10	0.0023	48.9
S.LDL.C	rs111740198	19	44878217	A	0.293	0.052	2.8E-08	0.0028	40.1
S.LDL.C	rs112635299	14	94838142	T	0.249	0.040	6.6E-10	0.0021	43.1
S.LDL.C	rs116054287	1	56401689	C	0.364	0.038	1.9E-21	0.0049	105.8
S.LDL.C	rs117261169	19	45491032	T	0.320	0.055	1.2E-08	0.0020	38.2
S.LDL.C	rs117569256	19	45423330	G	0.734	0.107	1.3E-11	0.0054	73.3
S.LDL.C	rs11878174	19	45723379	C	0.070	0.012	3.2E-09	0.0024	46.4
S.LDL.C	rs12043403	1	55431933	C	0.131	0.018	5.5E-13	0.0034	66.3
S.LDL.C	rs12086676	1	55738663	T	0.071	0.013	3E-08	0.0015	33.4
S.LDL.C	rs1260326	2	27730940	C	0.061	0.010	4.3E-09	0.0017	36.7
S.LDL.C	rs137992968	19	11239696	T	0.195	0.034	1.3E-08	0.0017	36.0
S.LDL.C	rs138270540	4	75353427	C	0.219	0.036	1.8E-09	0.0023	44.6
S.LDL.C	rs138287365	4	74781004	C	0.357	0.049	7.9E-13	0.0034	65.4
S.LDL.C	rs140339333	4	75396456	A	0.260	0.044	5.4E-09	0.0024	46.5
S.LDL.C	rs140411770	19	45356517	A	0.527	0.088	4E-09	0.0046	72.0
S.LDL.C	rs142130958	19	11190652	A	0.207	0.016	7.8E-36	0.0081	175.8

S.LDL.C	rs143413051	4	75560225	T	0.364	0.055	4.7E-11	0.0030	54.1
S.LDL.C	rs143736900	4	72871285	C	0.584	0.082	2.5E-12	0.0043	71.1
S.LDL.C	rs144064722	4	73406173	G	0.252	0.034	2.5E-13	0.0031	60.6
S.LDL.C	rs144721118	1	54196340	A	0.249	0.040	5.4E-10	0.0029	55.2
S.LDL.C	rs146568567	1	54824117	A	0.288	0.032	2.6E-19	0.0045	87.8
S.LDL.C	rs146982841	19	10771544	T	0.223	0.036	9.4E-10	0.0023	41.6
S.LDL.C	rs147825223	19	45479553	C	0.165	0.028	1E-08	0.0020	36.0
S.LDL.C	rs148359521	2	21414212	T	0.180	0.032	2.9E-08	0.0019	36.0
S.LDL.C	rs148382396	1	54639713	A	0.364	0.051	1.9E-12	0.0038	61.1
S.LDL.C	rs149048538	19	45053024	A	0.242	0.044	4.5E-08	0.0018	35.0
S.LDL.C	rs149844719	1	54519237	T	0.172	0.028	1.2E-09	0.0021	44.9
S.LDL.C	rs149944945	1	56129361	G	0.286	0.034	1.3E-16	0.0041	78.7
S.LDL.C	rs150785555	1	56005603	A	0.435	0.036	1.9E-33	0.0084	163.3
S.LDL.C	rs150966173	19	45421204	T	0.222	0.039	1.5E-08	0.0020	38.2
S.LDL.C	rs150985779	19	45147992	T	0.245	0.038	1.9E-10	0.0025	48.8
S.LDL.C	rs157594	19	45425175	G	0.130	0.012	6.3E-28	0.0082	158.9
S.LDL.C	rs17111503	1	55503448	G	0.072	0.013	4.3E-08	0.0017	36.6
S.LDL.C	rs17395160	1	55085141	G	0.081	0.012	3.5E-11	0.0022	47.3
S.LDL.C	rs180961170	1	57012269	G	0.349	0.052	2.9E-11	0.0034	60.1
S.LDL.C	rs181169081	2	21312870	A	0.178	0.032	3.5E-08	0.0018	35.3
S.LDL.C	rs181594442	1	57006537	A	0.348	0.052	3E-11	0.0034	60.0
S.LDL.C	rs181847072	4	73134560	G	0.581	0.082	2.1E-12	0.0043	71.8
S.LDL.C	rs182300850	1	54389320	C	0.350	0.060	7.7E-09	0.0029	43.1
S.LDL.C	rs182318839	19	45747128	T	0.298	0.054	4E-08	0.0027	46.8
S.LDL.C	rs183162020	4	73690263	G	0.760	0.115	7E-11	0.0067	66.2
S.LDL.C	rs184566992	19	44887996	T	0.318	0.052	1.5E-09	0.0030	47.7
S.LDL.C	rs184650103	4	74850649	T	0.396	0.046	3.5E-17	0.0043	76.6
S.LDL.C	rs185049786	4	74644512	C	0.336	0.053	3.9E-10	0.0034	65.8
S.LDL.C	rs185415345	1	56625395	A	0.159	0.027	8.5E-09	0.0022	43.4
S.LDL.C	rs186538116	1	56840574	C	0.405	0.045	3.2E-19	0.0055	97.8
S.LDL.C	rs189409600	19	45341066	T	0.713	0.103	8.8E-12	0.0054	75.6
S.LDL.C	rs189718275	19	45063850	A	0.256	0.044	9.3E-09	0.0021	39.8
S.LDL.C	rs190217562	4	75180409	C	0.300	0.040	1.7E-13	0.0034	60.4
S.LDL.C	rs190934192	1	55334001	A	0.359	0.040	6.8E-19	0.0060	117.1
S.LDL.C	rs191404723	1	54636232	T	0.365	0.051	1.5E-12	0.0036	62.1
S.LDL.C	rs191448950	1	55584844	A	0.469	0.032	1E-48	0.0105	228.0
S.LDL.C	rs192012905	19	44463485	G	0.308	0.053	7.5E-09	0.0024	42.9
S.LDL.C	rs192570155	1	55246601	C	0.458	0.045	7.8E-24	0.0074	132.0
S.LDL.C	rs193084249	1	26987646	G	0.177	0.031	2.3E-08	0.0019	37.6
S.LDL.C	rs2007708	19	45410420	A	0.798	0.104	3.4E-14	0.0050	91.6
S.LDL.C	rs207176	1	55791846	T	0.114	0.017	3.8E-11	0.0023	48.8
S.LDL.C	rs2479408	1	55504188	G	0.082	0.014	2E-08	0.0019	41.5
S.LDL.C	rs2927472	19	45349369	C	0.124	0.018	5.6E-12	0.0028	59.9
S.LDL.C	rs2954027	8	126485294	A	0.069	0.010	5.2E-12	0.0023	50.7
S.LDL.C	rs2965149	19	45190766	C	0.066	0.011	8.1E-10	0.0020	43.7
S.LDL.C	rs2967668	19	45302951	G	0.163	0.017	1.8E-21	0.0060	115.3
S.LDL.C	rs34042070	16	72101525	G	0.076	0.012	8.6E-10	0.0019	40.0
S.LDL.C	rs35913552	2	21272896	A	0.115	0.014	9.2E-16	0.0032	70.0

S.LDL.C	rs429358	19	45411941	C	0.220	0.013	1.2E-59	0.0136	297.6
S.LDL.C	rs4609471	1	55493584	A	0.355	0.030	3.2E-32	0.0098	190.5
S.LDL.C	rs4614977	2	44087024	G	0.130	0.018	3.2E-12	0.0024	51.9
S.LDL.C	rs4703667	5	74613906	C	0.090	0.010	2.6E-18	0.0039	84.6
S.LDL.C	rs4803748	19	45247048	T	0.083	0.011	2.1E-14	0.0032	69.4
S.LDL.C	rs533617	2	21233972	C	0.172	0.022	4E-15	0.0032	68.5
S.LDL.C	rs562556	1	55524237	A	0.082	0.013	6.7E-10	0.0019	41.7
S.LDL.C	rs61457016	19	41085400	G	0.317	0.056	3.1E-08	0.0019	39.2
S.LDL.C	rs62117161	19	45233385	G	0.178	0.020	9.2E-19	0.0041	87.7
S.LDL.C	rs62120794	2	21100426	T	0.165	0.024	1.5E-11	0.0024	49.1
S.LDL.C	rs629301	1	109818306	T	0.123	0.012	2E-24	0.0052	112.8
S.LDL.C	rs6511721	19	11206575	A	0.084	0.011	2.1E-14	0.0035	76.1
S.LDL.C	rs6663252	1	55630151	C	0.078	0.012	2.2E-10	0.0020	44.2
S.LDL.C	rs6859	19	45382034	G	0.070	0.010	1.6E-12	0.0025	53.3
S.LDL.C	rs73048351	19	45160086	A	0.390	0.064	2.4E-09	0.0027	51.5
S.LDL.C	rs73556990	19	44888175	G	0.295	0.052	2.8E-08	0.0029	41.4
S.LDL.C	rs74073060	1	55638930	A	0.455	0.037	2E-33	0.0088	171.7
S.LDL.C	rs7412	19	45412079	T	0.492	0.025	5.5E-83	0.0256	480.1
S.LDL.C	rs75647206	1	56947591	T	0.349	0.050	5.2E-12	0.0032	61.8
S.LDL.C	rs76670936	19	45196581	A	0.129	0.018	5.7E-12	0.0027	58.9
S.LDL.C	rs77021821	4	75684215	T	0.243	0.040	2.7E-09	0.0021	40.9
S.LDL.C	rs78620068	2	21524000	A	0.116	0.017	4.2E-11	0.0023	48.6
S.LDL.C	rs79668907	19	11257169	T	0.076	0.012	1.9E-09	0.0021	46.3
S.LDL.C	rs79890446	19	45723446	T	0.219	0.033	6.2E-11	0.0030	57.3
S.LDL.C	rs8106814	19	45441608	C	0.097	0.014	2.6E-11	0.0032	62.8
S.LDL.C	rs8111962	19	10915324	T	0.087	0.014	5.7E-10	0.0019	41.7
S.LDL.C	rs934197	2	21267461	A	0.103	0.011	2.2E-20	0.0043	93.6
S.LDL.C	rs964184	11	116648917	C	0.106	0.014	6.7E-14	0.0027	58.4
S.LDL.C	rs984976	5	74910870	G	0.078	0.010	1E-14	0.0030	63.9
S.HDL.TG	rs11076174	16	57003146	C	0.096	0.016	2.7E-09	0.0018	39.8
S.HDL.TG	rs11076176	16	57007446	G	0.133	0.014	1.9E-21	0.0049	106.7
S.HDL.TG	rs117241420	8	19770344	A	0.247	0.041	2.3E-09	0.0020	37.9
S.HDL.TG	rs1260326	2	27730940	C	0.069	0.010	3.6E-11	0.0022	46.8
S.HDL.TG	rs1268353	11	116639692	T	0.083	0.010	2.2E-16	0.0033	71.1
S.HDL.TG	rs138287365	4	74781004	C	0.288	0.049	7.2E-09	0.0022	42.7
S.HDL.TG	rs140339333	4	75396456	A	0.248	0.044	2.4E-08	0.0022	42.6
S.HDL.TG	rs151007118	11	116583864	T	0.202	0.034	2.7E-09	0.0021	40.5
S.HDL.TG	rs151193598	4	73303394	A	0.511	0.086	3.6E-09	0.0040	56.5
S.HDL.TG	rs157594	19	45425175	G	0.079	0.012	2.7E-11	0.0030	58.7
S.HDL.TG	rs1800777	16	57017319	A	0.202	0.035	1.4E-08	0.0020	38.2
S.HDL.TG	rs1815786	11	116921390	C	0.118	0.015	3.6E-14	0.0031	67.4
S.HDL.TG	rs183365738	4	72954415	A	0.524	0.082	2.1E-10	0.0035	58.5
S.HDL.TG	rs184650103	4	74850649	T	0.313	0.046	2.8E-11	0.0027	47.9
S.HDL.TG	rs1848922	2	21471603	C	0.074	0.012	1.4E-09	0.0019	40.5
S.HDL.TG	rs188651594	11	116673091	A	0.236	0.042	3.7E-08	0.0020	35.3
S.HDL.TG	rs190217562	4	75180409	C	0.240	0.040	3.6E-09	0.0022	38.8
S.HDL.TG	rs2954029	8	126490972	T	0.074	0.010	8.5E-14	0.0028	59.9
S.HDL.TG	rs34356624	8	19903935	C	0.222	0.039	2.3E-08	0.0018	35.1

S.HDL.TG	rs3764261	16	56993324	A	0.148	0.011	3.6E-42	0.0092	199.9
S.HDL.TG	rs429358	19	45411941	C	0.100	0.013	1.5E-13	0.0028	61.5
S.HDL.TG	rs4296389	2	21142994	T	0.077	0.011	5.1E-13	0.0026	55.4
S.HDL.TG	rs6065904	20	44534651	A	0.090	0.012	2.8E-14	0.0029	62.0
S.HDL.TG	rs6511720	19	11202306	T	0.098	0.017	7.3E-09	0.0018	37.9
S.HDL.TG	rs6586886	8	19875408	A	0.057	0.010	3.7E-08	0.0015	32.7
S.HDL.TG	rs6957745	7	73056750	C	0.090	0.013	2.4E-11	0.0023	50.6
S.HDL.TG	rs79236614	8	19860460	G	0.165	0.017	4.4E-21	0.0044	95.3
S.HDL.TG	rs9472125	6	43756169	T	0.092	0.016	1.9E-08	0.0023	45.2
S.HDL.TG	rs964184	11	116648917	C	0.199	0.014	1.2E-44	0.0094	204.8
XL.HDL.C	rs11076174	16	57003146	C	0.093	0.016	7.1E-09	0.0017	36.8
XL.HDL.C	rs111543310	15	59531818	C	0.322	0.049	4.2E-11	0.0033	63.1
XL.HDL.C	rs112835635	15	59351989	G	0.218	0.035	7.6E-10	0.0022	43.6
XL.HDL.C	rs112884731	15	59504897	C	0.527	0.057	2.3E-20	0.0052	92.3
XL.HDL.C	rs112925355	15	59125988	A	0.210	0.029	3.6E-13	0.0027	57.8
XL.HDL.C	rs113298164	15	58855748	T	0.554	0.047	2E-31	0.0083	148.4
XL.HDL.C	rs116142092	15	59751872	T	0.378	0.050	7.6E-14	0.0033	59.7
XL.HDL.C	rs12708967	16	56993211	C	0.100	0.013	1.4E-13	0.0028	59.7
XL.HDL.C	rs138690293	15	59310760	C	0.638	0.107	2.9E-09	0.0030	48.8
XL.HDL.C	rs139066754	20	44224606	A	0.106	0.018	6E-09	0.0018	39.9
XL.HDL.C	rs142855631	15	59286876	T	0.652	0.108	1.7E-09	0.0030	49.3
XL.HDL.C	rs142887188	15	60132580	G	0.246	0.042	3.9E-09	0.0023	39.0
XL.HDL.C	rs146842281	15	59356659	T	0.148	0.022	1.8E-11	0.0025	48.5
XL.HDL.C	rs148527372	3	159734448	A	0.554	0.095	5.7E-09	0.0026	39.8
XL.HDL.C	rs148902553	15	59776836	C	0.382	0.051	5E-14	0.0035	60.2
XL.HDL.C	rs1532624	16	57005479	A	0.127	0.010	1.1E-37	0.0079	170.7
XL.HDL.C	rs174547	11	61570783	C	0.085	0.010	3.9E-17	0.0034	74.5
XL.HDL.C	rs17821274	15	58684478	C	0.075	0.010	8.3E-13	0.0025	54.9
XL.HDL.C	rs17821298	15	58690738	A	0.066	0.012	2E-08	0.0016	33.5
XL.HDL.C	rs181412360	15	59158953	C	0.344	0.038	1.5E-19	0.0049	88.0
XL.HDL.C	rs182776276	15	59254589	G	0.549	0.060	5.7E-20	0.0051	88.4
XL.HDL.C	rs183975744	15	59052479	T	0.671	0.120	2.4E-08	0.0022	34.9
XL.HDL.C	rs185241689	15	59143155	G	0.756	0.114	3.8E-11	0.0034	55.6
XL.HDL.C	rs185481	15	58666679	C	0.058	0.010	1.7E-08	0.0017	35.9
XL.HDL.C	rs189375934	15	60196526	G	0.318	0.053	1.9E-09	0.0023	40.2
XL.HDL.C	rs189418461	15	59725202	G	0.375	0.050	6E-14	0.0034	59.9
XL.HDL.C	rs192630343	15	59286102	A	0.619	0.107	7.6E-09	0.0029	47.4
XL.HDL.C	rs1943973	18	47179516	A	0.087	0.013	1.3E-10	0.0020	42.4
XL.HDL.C	rs2070895	15	58723939	A	0.168	0.012	5.8E-47	0.0104	226.0
XL.HDL.C	rs2575876	9	107665739	A	0.100	0.013	2.7E-15	0.0030	65.2
XL.HDL.C	rs261291	15	58680178	C	0.154	0.010	3.3E-51	0.0110	240.3
XL.HDL.C	rs34718390	15	58682690	A	0.153	0.024	1.1E-10	0.0027	58.9
XL.HDL.C	rs4810479	20	44545048	T	0.117	0.011	1.2E-25	0.0053	115.5
XL.HDL.C	rs60439253	15	58874532	T	0.230	0.028	4E-16	0.0036	72.5
XL.HDL.C	rs61803025	1	161600591	C	0.104	0.019	1.9E-08	0.0021	41.5
XL.HDL.C	rs67053123	12	125353810	A	0.081	0.015	2.7E-08	0.0017	35.9
XL.HDL.C	rs686030	9	15304782	A	0.083	0.015	1.5E-08	0.0015	33.1
XL.HDL.C	rs76116860	15	59834938	C	0.265	0.041	1.2E-10	0.0025	47.8
XL.HDL.C	rs7873387	9	107595602	C	0.093	0.016	9.2E-09	0.0016	34.4
XL.HDL.C	rs79844529	15	58445279	T	0.182	0.032	1.3E-08	0.0022	41.6

M.VLDL.C	rs10401845	19	11191536	C	0.088	0.013	2.4E-11	0.0023	49.7
M.VLDL.C	rs1042034	2	21225281	T	0.109	0.011	4.9E-22	0.0045	97.4
M.VLDL.C	rs113560866	11	117015189	C	0.083	0.014	5.9E-09	0.0018	39.1
M.VLDL.C	rs115849089	8	19912370	A	0.164	0.017	2.7E-22	0.0051	111.0
M.VLDL.C	rs1168041	1	62960250	C	0.094	0.011	1.4E-16	0.0035	76.1
M.VLDL.C	rs117001569	8	19574920	G	0.238	0.041	1.1E-08	0.0018	35.3
M.VLDL.C	rs1260326	2	27730940	C	0.094	0.010	5E-20	0.0041	89.1
M.VLDL.C	rs1268353	11	116639692	T	0.087	0.010	8.2E-18	0.0036	77.4
M.VLDL.C	rs145106713	8	19942183	T	0.252	0.042	4.2E-09	0.0019	37.3
M.VLDL.C	rs146695330	19	20139610	A	0.203	0.035	8.3E-09	0.0024	43.0
M.VLDL.C	rs150536132	19	19679560	T	0.192	0.030	1.4E-10	0.0031	55.3
M.VLDL.C	rs150617279	19	20139234	A	0.128	0.017	1.8E-13	0.0032	62.6
M.VLDL.C	rs151007118	11	116583864	T	0.263	0.033	7.1E-15	0.0036	68.9
M.VLDL.C	rs17145738	7	72982874	T	0.110	0.015	4.3E-13	0.0027	57.3
M.VLDL.C	rs17216525	19	19662220	T	0.153	0.020	2.6E-14	0.0029	61.8
M.VLDL.C	rs183130	16	56991363	T	0.105	0.012	2.4E-18	0.0045	83.3
M.VLDL.C	rs183305631	19	19597444	A	0.212	0.032	4.7E-11	0.0031	55.6
M.VLDL.C	rs188651594	11	116673091	A	0.317	0.042	1.1E-13	0.0036	63.8
M.VLDL.C	rs189741280	19	19624481	G	0.180	0.030	2.6E-09	0.0024	45.7
M.VLDL.C	rs190121281	19	19252779	A	0.196	0.033	2.6E-09	0.0026	46.0
M.VLDL.C	rs2954021	8	126482077	G	0.069	0.010	2.8E-12	0.0024	51.4
M.VLDL.C	rs36229786	16	56993901	C	0.079	0.014	1.9E-08	0.0017	36.7
M.VLDL.C	rs3826688	19	45418961	C	0.092	0.011	2.2E-16	0.0037	80.4
M.VLDL.C	rs3846661	5	74639178	G	0.066	0.010	9E-11	0.0021	45.3
M.VLDL.C	rs429358	19	45411941	C	0.111	0.013	3.4E-16	0.0034	74.5
M.VLDL.C	rs579674	11	116528224	G	0.078	0.013	9.8E-10	0.0019	40.8
M.VLDL.C	rs61905067	11	116578982	G	0.239	0.039	1.1E-09	0.0022	46.9
M.VLDL.C	rs6586891	8	19914598	A	0.065	0.010	8.1E-10	0.0018	39.9
M.VLDL.C	rs7115242	11	116908283	G	0.117	0.016	8.9E-14	0.0028	61.5
M.VLDL.C	rs71480307	11	116516873	A	0.084	0.015	2.7E-08	0.0016	34.8
M.VLDL.C	rs72660594	1	55636240	C	0.175	0.029	1.8E-09	0.0021	40.2
M.VLDL.C	rs72836561	17	41926126	T	0.208	0.036	9.9E-09	0.0021	40.4
M.VLDL.C	rs72999033	19	19366632	T	0.176	0.021	1E-16	0.0035	74.8
M.VLDL.C	rs7533354	1	63217503	C	0.082	0.015	3E-08	0.0016	33.5
M.VLDL.C	rs7575840	2	21273490	T	0.074	0.011	1.9E-11	0.0023	50.0
M.VLDL.C	rs77182215	11	116942366	A	0.206	0.029	1.2E-12	0.0030	58.6
M.VLDL.C	rs964184	11	116648917	C	0.234	0.014	8.7E-62	0.0130	284.8
M.VLDL.C	rs984976	5	74910870	G	0.063	0.010	3.5E-10	0.0019	41.9
L.VLDL.C	rs10889331	1	62943007	T	0.086	0.012	3.8E-13	0.0032	55.9
L.VLDL.C	rs117241420	8	19770344	A	0.232	0.041	2.2E-08	0.0017	32.9
L.VLDL.C	rs1260326	2	27730940	C	0.089	0.010	8.5E-18	0.0037	78.1
L.VLDL.C	rs1268353	11	116639692	T	0.073	0.010	8.6E-13	0.0025	53.3
L.VLDL.C	rs150617279	19	20139234	A	0.109	0.017	4.7E-10	0.0023	44.6
L.VLDL.C	rs151007118	11	116583864	T	0.256	0.034	5E-14	0.0034	64.2
L.VLDL.C	rs17120347	11	116996539	A	0.091	0.015	6.2E-10	0.0019	40.9
L.VLDL.C	rs17216525	19	19662220	T	0.134	0.020	3.1E-11	0.0022	46.8
L.VLDL.C	rs181583353	11	39151067	G	0.249	0.044	2.4E-08	0.0024	41.5
L.VLDL.C	rs188651594	11	116673091	A	0.289	0.043	2.1E-11	0.0029	51.5

L.VLDL.C	rs191238346	11	39167052	A	0.247	0.044	2.9E-08	0.0023	40.6
L.VLDL.C	rs2001945	8	126477978	C	0.058	0.010	7E-09	0.0017	35.2
L.VLDL.C	rs34482346	7	72915521	C	0.128	0.015	1.4E-16	0.0035	74.5
L.VLDL.C	rs4296389	2	21142994	T	0.074	0.011	4.1E-12	0.0024	50.4
L.VLDL.C	rs438811	19	45416741	T	0.094	0.012	1.8E-14	0.0032	67.5
L.VLDL.C	rs579674	11	116528224	G	0.088	0.013	1E-11	0.0024	50.4
L.VLDL.C	rs7115242	11	116908283	G	0.092	0.016	5.1E-09	0.0018	37.5
L.VLDL.C	rs71480307	11	116516873	A	0.083	0.015	4E-08	0.0016	33.8
L.VLDL.C	rs72999033	19	19366632	T	0.150	0.021	2.3E-12	0.0025	53.2
L.VLDL.C	rs76975037	8	19851508	A	0.148	0.018	6.4E-17	0.0035	74.2
L.VLDL.C	rs77182215	11	116942366	A	0.200	0.029	7.1E-12	0.0029	54.2
L.VLDL.C	rs821840	16	56993886	G	0.092	0.012	6.1E-15	0.0033	70.3
L.VLDL.C	rs9472125	6	43756169	T	0.093	0.016	1.4E-08	0.0024	45.5
L.VLDL.C	rs964184	11	116648917	C	0.214	0.014	2.7E-51	0.0109	233.8
L.VLDL.TG	rs10455872	6	161010118	G	0.165	0.028	5.4E-09	0.0021	40.6
L.VLDL.TG	rs10889360	1	63173918	T	0.064	0.011	3E-08	0.0016	33.7
L.VLDL.TG	rs1260326	2	27730940	C	0.094	0.010	9.8E-20	0.0041	87.3
L.VLDL.TG	rs1268353	11	116639692	T	0.068	0.010	3E-11	0.0022	46.0
L.VLDL.TG	rs13030345	2	28003174	T	0.070	0.013	4.2E-08	0.0015	32.6
L.VLDL.TG	rs145106713	8	19942183	T	0.243	0.044	3.4E-08	0.0018	32.6
L.VLDL.TG	rs151007118	11	116583864	T	0.226	0.034	3.4E-11	0.0026	49.6
L.VLDL.TG	rs16996148	19	19658472	T	0.123	0.020	6.9E-10	0.0019	40.4
L.VLDL.TG	rs17120347	11	116996539	A	0.086	0.015	4.8E-09	0.0017	36.6
L.VLDL.TG	rs17411024	8	19852134	A	0.154	0.018	9.6E-18	0.0038	78.0
L.VLDL.TG	rs188651594	11	116673091	A	0.241	0.043	2.3E-08	0.0020	35.8
L.VLDL.TG	rs34346326	7	73016181	C	0.110	0.013	9.4E-17	0.0035	74.1
L.VLDL.TG	rs4350231	1	62922660	A	0.071	0.011	5.5E-11	0.0021	45.2
L.VLDL.TG	rs438811	19	45416741	T	0.090	0.012	2.9E-13	0.0029	61.2
L.VLDL.TG	rs579674	11	116528224	G	0.078	0.013	1.4E-09	0.0019	39.9
L.VLDL.TG	rs7115242	11	116908283	G	0.099	0.016	3.9E-10	0.0020	43.0
L.VLDL.TG	rs72999033	19	19366632	T	0.133	0.021	4.6E-10	0.0020	41.9
L.VLDL.TG	rs77182215	11	116942366	A	0.202	0.029	4.3E-12	0.0029	55.3
L.VLDL.TG	rs9472125	6	43756169	T	0.091	0.016	3.1E-08	0.0023	43.4
L.VLDL.TG	rs964184	11	116648917	C	0.206	0.014	7E-48	0.0101	217.5
XL.VLDL.TG	rs10455872	6	161010118	G	0.181	0.028	1.2E-10	0.0026	49.3
XL.VLDL.TG	rs1168041	1	62960250	C	0.084	0.011	1E-13	0.0028	61.2
XL.VLDL.TG	rs1260326	2	27730940	C	0.093	0.010	1.4E-19	0.0040	86.3
XL.VLDL.TG	rs1268353	11	116639692	T	0.057	0.010	1.2E-08	0.0016	33.7
XL.VLDL.TG	rs13234157	7	72971728	A	0.111	0.015	3.2E-13	0.0027	58.5
XL.VLDL.TG	rs151007118	11	116583864	T	0.209	0.033	5E-10	0.0023	43.7
XL.VLDL.TG	rs17120347	11	116996539	A	0.082	0.014	1.8E-08	0.0016	33.8
XL.VLDL.TG	rs17216525	19	19662220	T	0.129	0.021	9.2E-10	0.0019	40.1
XL.VLDL.TG	rs17411024	8	19852134	A	0.125	0.017	8.2E-13	0.0025	54.1
XL.VLDL.TG	rs181583353	11	39151067	G	0.242	0.044	4.6E-08	0.0022	39.8
XL.VLDL.TG	rs186696265	6	161111700	T	0.326	0.057	1.9E-08	0.0020	35.1
XL.VLDL.TG	rs4296389	2	21142994	T	0.059	0.011	2.4E-08	0.0015	32.5
XL.VLDL.TG	rs438811	19	45416741	T	0.081	0.013	5E-10	0.0023	44.6
XL.VLDL.TG	rs579674	11	116528224	G	0.081	0.013	2.6E-10	0.0020	43.4

XL.VLDL.TG	rs72999033	19	19366632	T	0.144	0.022	1.3E-10	0.0021	45.3
XL.VLDL.TG	rs77182215	11	116942366	A	0.182	0.029	3.1E-10	0.0024	45.7
XL.VLDL.TG	rs964184	11	116648917	C	0.179	0.014	7E-37	0.0076	165.4
XXL.VLDL.TG	rs10455872	6	161010118	G	0.194	0.028	4.8E-12	0.0029	56.6
XXL.VLDL.TG	rs1168041	1	62960250	C	0.077	0.011	7.7E-12	0.0024	51.6
XXL.VLDL.TG	rs1260326	2	27730940	C	0.093	0.010	8E-20	0.0040	87.2
XXL.VLDL.TG	rs1268353	11	116639692	T	0.056	0.010	3.1E-08	0.0015	31.7
XXL.VLDL.TG	rs13233571	7	72971231	T	0.094	0.015	6.4E-10	0.0019	41.4
XXL.VLDL.TG	rs151007118	11	116583864	T	0.201	0.033	2.1E-09	0.0021	40.5
XXL.VLDL.TG	rs17217098	19	19702384	A	0.117	0.021	1.9E-08	0.0015	33.3
XXL.VLDL.TG	rs483082	19	45416178	T	0.097	0.012	1.2E-15	0.0034	72.9
XXL.VLDL.TG	rs72999033	19	19366632	T	0.126	0.021	2.3E-09	0.0018	38.3
XXL.VLDL.TG	rs77182215	11	116942366	A	0.167	0.029	6.8E-09	0.0020	38.6
XXL.VLDL.TG	rs77729186	8	19826318	G	0.116	0.017	9.5E-12	0.0022	48.5
XXL.VLDL.TG	rs821840	16	56993886	G	0.065	0.012	2.2E-08	0.0017	35.9
XXL.VLDL.TG	rs964184	11	116648917	C	0.153	0.014	1.8E-27	0.0056	120.6
XL.HDL.TG	rs11096689	2	21140540	T	0.073	0.011	9.9E-11	0.0021	44.4
XL.HDL.TG	rs111543310	15	59531818	C	0.492	0.049	1.5E-23	0.0076	147.3
XL.HDL.TG	rs112835635	15	59351989	G	0.331	0.035	2.3E-20	0.0050	100.3
XL.HDL.TG	rs112884731	15	59504897	C	0.712	0.057	1.8E-35	0.0094	169.1
XL.HDL.TG	rs112925355	15	59125988	A	0.290	0.029	1.9E-23	0.0051	110.7
XL.HDL.TG	rs113298164	15	58855748	T	0.750	0.047	1.1E-55	0.0152	273.8
XL.HDL.TG	rs113531395	17	4886829	T	0.204	0.036	2.4E-08	0.0021	41.0
XL.HDL.TG	rs114716552	15	58600902	G	0.152	0.021	9E-13	0.0031	60.6
XL.HDL.TG	rs116142092	15	59751872	T	0.473	0.050	1.5E-20	0.0052	93.6
XL.HDL.TG	rs11632970	15	58837515	C	0.078	0.012	5.5E-10	0.0022	48.3
XL.HDL.TG	rs11638718	15	58079462	G	0.071	0.012	7.4E-09	0.0016	35.0
XL.HDL.TG	rs116802199	17	4801101	C	0.217	0.032	1.1E-11	0.0027	49.8
XL.HDL.TG	rs116869421	15	58709436	C	0.360	0.051	4.1E-12	0.0034	66.0
XL.HDL.TG	rs117386336	15	58568077	T	0.218	0.039	3.3E-08	0.0018	35.6
XL.HDL.TG	rs117459981	15	58619066	C	0.279	0.047	4.3E-09	0.0020	43.1
XL.HDL.TG	rs117597286	15	58587369	C	0.260	0.036	1.3E-12	0.0030	57.2
XL.HDL.TG	rs117749052	15	58749309	C	0.276	0.037	1.6E-13	0.0044	85.0
XL.HDL.TG	rs117806344	15	58693213	T	0.377	0.051	2.6E-13	0.0037	70.8
XL.HDL.TG	rs118078695	15	58686409	A	0.295	0.051	1.3E-08	0.0025	48.2
XL.HDL.TG	rs12442723	15	59458663	C	0.102	0.013	1.2E-15	0.0032	69.7
XL.HDL.TG	rs1268353	11	116639692	T	0.061	0.010	2.3E-09	0.0017	37.5
XL.HDL.TG	rs12899090	15	59901576	G	0.096	0.015	5.8E-10	0.0028	54.8
XL.HDL.TG	rs1318175	15	58586129	T	0.157	0.013	1.3E-32	0.0072	155.1
XL.HDL.TG	rs13329672	15	58699937	T	0.156	0.011	3.3E-41	0.0095	206.9
XL.HDL.TG	rs138195472	15	58672107	T	0.357	0.035	2.6E-24	0.0064	114.3
XL.HDL.TG	rs138690293	15	59310760	C	0.719	0.107	3.1E-11	0.0038	62.0
XL.HDL.TG	rs142538594	15	58192308	G	0.383	0.055	7E-12	0.0057	91.8
XL.HDL.TG	rs142855631	15	59286876	T	0.728	0.108	2.5E-11	0.0038	61.4
XL.HDL.TG	rs142887188	15	60132580	G	0.257	0.042	1.1E-09	0.0025	42.5
XL.HDL.TG	rs144149061	15	58500098	T	0.838	0.131	2.3E-10	0.0049	66.7
XL.HDL.TG	rs145347194	15	58670135	C	0.221	0.022	4.4E-23	0.0063	135.9
XL.HDL.TG	rs146842281	15	59356659	T	0.256	0.022	4.4E-31	0.0075	146.3
XL.HDL.TG	rs148828254	15	58571224	A	0.209	0.031	5.1E-11	0.0023	50.7

XL.HDL.TG	rs148902553	15	59776836	C	0.477	0.050	8.5E-21	0.0055	94.2
XL.HDL.TG	rs150536132	19	19679560	T	0.166	0.030	3.2E-08	0.0023	41.1
XL.HDL.TG	rs1532085	15	58683366	G	0.264	0.010	9E-155	0.0336	748.0
XL.HDL.TG	rs1540037	18	47182664	G	0.092	0.012	7.9E-14	0.0029	63.3
XL.HDL.TG	rs16939881	15	58471979	C	0.315	0.028	1E-29	0.0084	164.1
XL.HDL.TG	rs1711062	15	58508790	C	0.105	0.011	4.9E-22	0.0052	112.0
XL.HDL.TG	rs17231506	16	56994528	T	0.069	0.011	3.1E-10	0.0020	43.2
XL.HDL.TG	rs181412360	15	59158953	C	0.483	0.038	1.1E-36	0.0097	174.4
XL.HDL.TG	rs181450801	15	59326120	A	0.463	0.076	1.9E-09	0.0031	58.6
XL.HDL.TG	rs181835401	1	63135955	A	0.090	0.011	4.4E-15	0.0031	67.2
XL.HDL.TG	rs182776276	15	59254589	G	0.732	0.060	5.7E-34	0.0091	157.9
XL.HDL.TG	rs182785673	15	58073964	T	0.466	0.076	1.3E-09	0.0028	50.4
XL.HDL.TG	rs183276229	15	58742906	C	0.310	0.035	6.3E-18	0.0046	81.3
XL.HDL.TG	rs183975744	15	59052479	T	0.803	0.120	3.4E-11	0.0032	50.0
XL.HDL.TG	rs185241689	15	59143155	G	0.836	0.114	3.8E-13	0.0042	68.1
XL.HDL.TG	rs185533289	15	58782289	C	0.307	0.055	3.5E-08	0.0019	32.2
XL.HDL.TG	rs186603838	15	58865534	A	0.166	0.030	4E-08	0.0018	31.5
XL.HDL.TG	rs188131745	15	58553702	A	0.464	0.079	6.2E-09	0.0027	51.3
XL.HDL.TG	rs189375934	15	60196526	G	0.429	0.053	8.4E-16	0.0042	73.1
XL.HDL.TG	rs189418461	15	59725202	G	0.470	0.050	9.9E-21	0.0053	94.0
XL.HDL.TG	rs190121281	19	19252779	A	0.196	0.033	2.7E-09	0.0026	46.0
XL.HDL.TG	rs190548956	15	59985051	A	0.266	0.042	3.8E-10	0.0023	43.9
XL.HDL.TG	rs191448950	1	55584844	A	0.217	0.032	1.3E-11	0.0022	48.4
XL.HDL.TG	rs192060595	15	58907990	C	0.329	0.057	9.8E-09	0.0025	43.1
XL.HDL.TG	rs192630343	15	59286102	A	0.709	0.107	5.1E-11	0.0038	62.3
XL.HDL.TG	rs192924868	15	59231939	C	0.115	0.021	3.1E-08	0.0020	37.9
XL.HDL.TG	rs193092110	15	58730460	A	0.303	0.035	2.8E-17	0.0044	77.7
XL.HDL.TG	rs1998013	1	55958030	T	0.230	0.035	1.1E-10	0.0022	48.1
XL.HDL.TG	rs2044332	15	58646641	A	0.122	0.014	8.2E-17	0.0038	81.5
XL.HDL.TG	rs2070895	15	58723939	A	0.302	0.012	3E-148	0.0337	749.9
XL.HDL.TG	rs2217970	15	60090978	A	0.130	0.019	3.8E-11	0.0025	49.2
XL.HDL.TG	rs2414585	15	58785756	G	0.308	0.048	1.6E-10	0.0028	54.5
XL.HDL.TG	rs2642636	15	58363242	G	0.072	0.010	3.7E-12	0.0024	52.5
XL.HDL.TG	rs28370984	15	58629308	C	0.344	0.032	9.9E-27	0.0066	127.5
XL.HDL.TG	rs28601761	8	126500031	G	0.068	0.010	1.8E-11	0.0023	49.2
XL.HDL.TG	rs2881925	2	20390694	A	0.056	0.010	1.4E-08	0.0016	34.0
XL.HDL.TG	rs2932196	15	57912338	T	0.056	0.010	2.5E-08	0.0015	32.4
XL.HDL.TG	rs34101191	15	58793567	A	0.075	0.010	1.4E-12	0.0028	59.8
XL.HDL.TG	rs35138338	15	58744481	T	0.089	0.013	3E-11	0.0033	70.4
XL.HDL.TG	rs35684611	15	58721302	G	0.138	0.014	2.4E-21	0.0047	100.8
XL.HDL.TG	rs426684	15	58662280	T	0.066	0.010	4.1E-11	0.0022	47.3
XL.HDL.TG	rs439401	19	45414451	C	0.086	0.011	1.3E-14	0.0032	68.3
XL.HDL.TG	rs4775039	15	58670897	G	0.160	0.011	1.4E-45	0.0129	280.9
XL.HDL.TG	rs479084	15	58666087	G	0.120	0.010	1.1E-29	0.0067	145.7
XL.HDL.TG	rs490098	15	58691225	A	0.179	0.013	1.9E-42	0.0093	202.4
XL.HDL.TG	rs4939873	18	47062054	T	0.133	0.023	1.4E-08	0.0017	36.4
XL.HDL.TG	rs55817218	15	58562006	A	0.170	0.020	6.2E-17	0.0041	88.9
XL.HDL.TG	rs55861554	15	58761235	C	0.067	0.011	6.3E-10	0.0020	43.5
XL.HDL.TG	rs56296027	2	21134011	C	0.062	0.011	3.2E-08	0.0015	32.7

XL.HDL.TG	rs572107	15	59055810	C	0.069	0.010	5.2E-11	0.0022	46.9
XL.HDL.TG	rs61999891	15	58299599	A	0.122	0.017	3.5E-12	0.0030	58.9
XL.HDL.TG	rs62001693	15	58614892	A	0.221	0.034	1.3E-10	0.0028	59.5
XL.HDL.TG	rs6589592	11	116957907	G	0.105	0.016	2E-11	0.0023	50.6
XL.HDL.TG	rs7178935	15	59368167	A	0.064	0.011	1E-08	0.0016	34.6
XL.HDL.TG	rs72739708	15	57733779	T	0.114	0.021	5E-08	0.0015	32.3
XL.HDL.TG	rs73424577	15	58869185	G	0.305	0.028	5.5E-27	0.0064	128.9
XL.HDL.TG	rs73959582	18	47148886	C	0.097	0.014	2.4E-11	0.0024	52.5
XL.HDL.TG	rs74073060	1	55638930	A	0.218	0.037	8.1E-09	0.0020	39.1
XL.HDL.TG	rs74537322	15	58342102	G	0.406	0.065	7.2E-10	0.0028	49.6
XL.HDL.TG	rs75870978	15	58177266	G	0.391	0.066	4.6E-09	0.0055	60.8
XL.HDL.TG	rs76116860	15	59834938	C	0.339	0.041	3.1E-16	0.0040	78.2
XL.HDL.TG	rs76212899	15	58263295	G	0.157	0.027	5.2E-09	0.0022	42.6
XL.HDL.TG	rs76438892	15	58687932	G	0.271	0.047	1.1E-08	0.0018	35.7
XL.HDL.TG	rs78321025	15	58108078	A	0.248	0.034	9.6E-13	0.0035	67.9
XL.HDL.TG	rs79202680	17	4692640	T	0.242	0.035	5.2E-12	0.0029	55.8
XL.HDL.TG	rs8025975	15	59696602	G	0.097	0.015	4.2E-10	0.0021	44.8
XL.HDL.TG	rs8042174	15	58685970	C	0.206	0.020	6.8E-25	0.0059	128.8
XL.HDL.TG	rs8043310	15	58731818	A	0.360	0.039	1.2E-19	0.0050	96.6
XL.HDL.TG	rs8100204	19	19393714	A	0.096	0.016	4.3E-09	0.0021	44.9
XL.HDL.TG	rs935202	15	58457569	A	0.083	0.011	1.1E-14	0.0031	67.2
XL.HDL.TG	rs938507	15	58582034	A	0.139	0.014	6.8E-22	0.0045	97.2
XL.HDL.TG	rs964184	11	116648917	C	0.155	0.014	1.1E-27	0.0057	123.4
XL.HDL.TG	rs97384	11	61624181	C	0.084	0.010	1.2E-15	0.0034	74.0

Supplementary Table 5. Genetic instruments for lipid drug targets, as selected and extracted from Global Lipids Genetics Consortium (GLGC) GWAS dataset.

Phenotype	Target	Proxy treatment	SNP	Chr	Position (hg18)	Eff_allele	Effect	SE	P-value	R2	F
HDL-C	CETP	CETP inhibitors	rs12446867	16	57052901	G	0.034	0.004	1.8E-16	0.0005	84.0
HDL-C	CETP	CETP inhibitors	rs12448528	16	56985555	G	0.199	0.005	2.1E-344	0.0139	2577.3
HDL-C	CETP	CETP inhibitors	rs12597002	16	57002404	C	0.085	0.004	1.1E-102	0.0029	535.4
HDL-C	CETP	CETP inhibitors	rs12720917	16	57019392	C	0.098	0.006	5.9E-68	0.0023	407.0
HDL-C	CETP	CETP inhibitors	rs12928552	16	57048707	G	0.050	0.008	2.2E-09	0.0002	35.6
HDL-C	CETP	CETP inhibitors	rs13306673	16	56900931	C	0.098	0.006	2.8E-48	0.0016	288.0
HDL-C	CETP	CETP inhibitors	rs13306677	16	56926195	A	0.090	0.006	1.4E-50	0.0014	268.4
HDL-C	CETP	CETP inhibitors	rs1566439	16	57024662	C	0.027	0.004	3.5E-15	0.0004	67.9
HDL-C	CETP	CETP inhibitors	rs16963520	16	56936563	A	0.071	0.007	3.1E-25	0.0014	130.7
HDL-C	CETP	CETP inhibitors	rs17290922	16	57024317	G	0.055	0.008	3.4E-13	0.0006	58.9
HDL-C	CETP	CETP inhibitors	rs17370142	16	57050348	T	0.034	0.006	1.2E-11	0.0002	43.8
HDL-C	CETP	CETP inhibitors	rs1864163	16	56997233	G	0.225	0.004	3.6E-573	0.0198	3745.5
HDL-C	CETP	CETP inhibitors	rs1875236	16	57033696	A	0.059	0.007	1.4E-18	0.0006	113.9
HDL-C	CETP	CETP inhibitors	rs247615	16	56984763	A	0.076	0.004	2.9E-62	0.0020	371.2
HDL-C	CETP	CETP inhibitors	rs247616	16	56989590	T	0.243	0.004	1.2E-802	0.0245	4650.2
HDL-C	CETP	CETP inhibitors	rs289719	16	57009941	T	0.113	0.004	5.4E-173	0.0056	1048.7
HDL-C	CETP	CETP inhibitors	rs289726	16	57074451	T	0.036	0.004	1.3E-22	0.0006	112.2
HDL-C	CETP	CETP inhibitors	rs289745	16	57019532	A	0.028	0.004	2.3E-20	0.0004	66.6
HDL-C	CETP	CETP inhibitors	rs4329913	16	56905432	C	0.041	0.006	1.4E-11	0.0006	54.1
HDL-C	CETP	CETP inhibitors	rs5883	16	57007353	T	0.115	0.008	1.8E-31	0.0015	254.0
HDL-C	CETP	CETP inhibitors	rs7188963	16	56931565	C	0.059	0.004	3.2E-39	0.0012	220.1
HDL-C	CETP	CETP inhibitors	rs7204290	16	56968039	G	0.030	0.004	1.5E-16	0.0004	71.4
HDL-C	CETP	CETP inhibitors	rs7499911	16	57036440	G	0.060	0.011	1.3E-08	0.0004	40.4
HDL-C	CETP	CETP inhibitors	rs9938160	16	56984590	C	0.060	0.005	3.2E-25	0.0014	125.6
LDL-C	HMGCR	Statins	rs10066707	5	74560579	A	0.050	0.005	3.0E-19	0.0012	108.1
LDL-C	HMGCR	Statins	rs10515198	5	74641560	A	0.060	0.006	6.0E-22	0.0007	114.7
LDL-C	HMGCR	Statins	rs3857388	5	74620377	C	0.042	0.006	2.2E-11	0.0004	68.5
LDL-C	HMGCR	Statins	rs7703051	5	74625487	A	0.073	0.004	1.4E-77	0.0026	443.6
LDL-C	NPC1L1	Ezetimibe	rs2073547	7	44582331	G	0.049	0.005	1.9E-21	0.0007	125.0
LDL-C	NPC1L1	Ezetimibe	rs217386	7	44600695	G	0.036	0.004	1.2E-19	0.0006	110.2
LDL-C	NPC1L1	Ezetimibe	rs7798185	7	44570717	A	0.041	0.007	1.9E-09	0.0004	37.3
LDL-C	PCSK9	PCSK9 inhibitors	rs10493176	1	55538552	T	0.078	0.010	2.5E-14	0.0012	105.4
LDL-C	PCSK9	PCSK9 inhibitors	rs11206510	1	55496039	T	0.083	0.005	2.4E-53	0.0018	312.2
LDL-C	PCSK9	PCSK9 inhibitors	rs11583974	1	55551718	A	0.065	0.012	4.0E-09	0.0002	24.5
LDL-C	PCSK9	PCSK9 inhibitors	rs12067569	1	55528629	A	0.089	0.010	2.0E-17	0.0005	85.3
LDL-C	PCSK9	PCSK9 inhibitors	rs2479394	1	55486064	G	0.039	0.004	1.6E-19	0.0006	105.1
LDL-C	PCSK9	PCSK9 inhibitors	rs2479409	1	55504650	G	0.064	0.004	2.5E-50	0.0018	317.0
LDL-C	PCSK9	PCSK9 inhibitors	rs2483205	1	55518316	C	0.051	0.005	4.7E-20	0.0013	102.6
LDL-C	PCSK9	PCSK9 inhibitors	rs4927193	1	55509872	T	0.035	0.006	4.3E-11	0.0003	48.7
LDL-C	PCSK9	PCSK9 inhibitors	rs502576	1	55512882	G	0.065	0.007	2.9E-22	0.0015	122.3
LDL-C	PCSK9	PCSK9 inhibitors	rs585131	1	55524116	T	0.064	0.005	2.7E-35	0.0012	205.3
LDL-C	PCSK9	PCSK9 inhibitors	rs7552841	1	55518752	T	0.037	0.004	5.4E-15	0.0006	88.1
LDL-C	ABCG5G8	Bile acid resins	rs10208987	2	44043135	T	0.049	0.007	2.4E-12	0.0004	66.8
LDL-C	ABCG5G8	Bile acid resins	rs1025447	2	44022970	C	0.042	0.005	3.8E-16	0.0005	80.2
LDL-C	ABCG5G8	Bile acid resins	rs4148214	2	44079004	T	0.039	0.004	3.8E-25	0.0007	129.8
LDL-C	ABCG5G8	Bile acid resins	rs4953023	2	44074000	G	0.131	0.007	1.7E-66	0.0027	454.5
LDL-C	ABCG5G8	Bile acid resins	rs6544713	2	44073881	T	0.081	0.004	4.8E-83	0.0027	467.8
LDL-C	ABCG5G8	Bile acid resins	rs75279593	2	44085035	A	0.074	0.012	1.4E-08	0.0005	42.7

LDL-C	LDLR	LDL receptor	rs1010679	19	11207102	T	0.102	0.006	3.5E-54	0.0030	253.7
LDL-C	LDLR	LDL receptor	rs3786721	19	11146499	T	0.047	0.004	2.9E-31	0.0011	178.3
LDL-C	LDLR	LDL receptor	rs3786722	19	11161537	C	0.075	0.004	5.5E-63	0.0021	358.8
LDL-C	LDLR	LDL receptor	rs379309	19	11284302	C	0.031	0.004	1.4E-13	0.0005	81.8
LDL-C	LDLR	LDL receptor	rs5742911	19	11243445	A	0.061	0.006	4.8E-24	0.0014	111.9
LDL-C	LDLR	LDL receptor	rs5927	19	11233941	G	0.035	0.005	2.8E-13	0.0005	75.9
LDL-C	LDLR	LDL receptor	rs6511720	19	11202306	G	0.221	0.006	3.8E-262	0.0086	1479.6
LDL-C	LDLR	LDL receptor	rs688	19	11227602	T	0.054	0.004	1.0E-43	0.0014	240.8

Supplementary Table 6. Power calculations for the Mendelian randomization analyses performed in the current study.

Lipid trait	Variance explained (R ²) ^a	Maximum / Minimum association estimate ^b for 1-β >0.80		
		Small vessel stroke	WMH volume	Intracerebral hemorrhage
Sample		298,777	10,597	3,026
Number of cases		11,710		1,545
Blood lipid levels		OR	beta (max / min)	OR (max / min)
HDL-C	12.4%	≤0.93 / ≥1.08	≤-0.06 / ≥0.06	≤0.75 / ≥1.33
LDL-C	11.6%	≤0.93 / ≥1.08	≤-0.07 / ≥0.07	≤0.74 / ≥1.35
TG	9.31%	≤0.92 / ≥1.09	≤-0.09 / ≥0.09	≤0.71 / ≥1.40
Lipid drug targets^c				
<i>CETP</i>	9.43%	≤0.92 / ≥1.09	≤-0.09 / ≥0.09	≤0.72 / ≥1.39
<i>HMGCR</i>	0.48%	≤0.72 / ≥1.39	≤-0.39 / ≥0.39	≤0.25 / ≥3.97
<i>NPC1L1</i>	0.18%	≤0.58 / ≥1.68	≤-0.64 / ≥0.64	≤0.12 / ≥8.03
<i>PCSK9</i>	1.11%	≤0.79 / ≥1.26	≤-0.26 / ≥0.26	≤0.39 / ≥2.57
<i>ABCG5/G8</i>	0.74%	≤0.76 / ≥1.31	≤-0.32 / ≥0.32	≤0.32 / ≥3.13
<i>LDLR</i>	1.87%	≤0.83 / ≥1.20	≤-0.20 / ≥0.20	≤0.48 / ≥2.08
<i>PPARA</i>	-	-	-	-
<i>ANGPTL3</i>	0.21%	≤0.63 / ≥1.59	≤-0.60 / ≥0.60	≤0.14 / ≥7.09
<i>ANGPTL4</i>	-	-	-	-
<i>APOC3</i>	2.25%	≤0.85 / ≥1.18	≤-0.19 / ≥0.19	≤0.51 / ≥1.95
<i>LPL</i>	1.65%	≤0.83 / ≥1.21	≤-0.22 / ≥0.22	≤0.46 / ≥2.18
Lipoprotein particle components				
S.HDL.TG	8.89%	≤0.92 / ≥1.09	≤-0.09 / ≥0.09	≤0.71 / ≥1.41
M.HDL.C	4.37%	≤0.88 / ≥1.13	≤-0.13 / ≥0.13	≤0.62 / ≥1.62
L.HDL.C	21.5%	≤0.94 / ≥1.06	≤-0.05 / ≥0.05	≤0.81 / ≥1.25
XL.HDL.C	13.9%	≤0.93 / ≥1.07	≤-0.06 / ≥0.06	≤0.76 / ≥1.32
XL.HDL.TG	47.8%	≤0.96 / ≥1.04	≤-0.04 / ≥0.04	≤0.86 / ≥1.16
S.LDL.C	35.9%	≤0.95 / ≥1.05	≤-0.05 / ≥0.05	≤0.84 / ≥1.19
M.LDL.C	42.2%	≤0.95 / ≥1.05	≤-0.04 / ≥0.04	≤0.85 / ≥1.17
L.LDL.C	45.7%	≤0.96 / ≥1.04	≤-0.04 / ≥0.04	≤0.86 / ≥1.16
IDL.C	42.1%	≤0.95 / ≥1.05	≤-0.04 / ≥0.04	≤0.85 / ≥1.17
IDL.TG	30.8%	≤0.95 / ≥1.05	≤-0.05 / ≥0.05	≤0.83 / ≥1.21
XS.VLDL.TG	17.4%	≤0.93 / ≥1.07	≤-0.06 / ≥0.06	≤0.78 / ≥1.28
S.VLDL.C	16.3%	≤0.93 / ≥1.07	≤-0.06 / ≥0.06	≤0.78 / ≥1.29
S.VLDL.TG	10.8%	≤0.93 / ≥1.08	≤-0.08 / ≥0.08	≤0.73 / ≥1.37
M.VLDL.C	11.6%	≤0.93 / ≥1.08	≤-0.07 / ≥0.07	≤0.74 / ≥1.35
M.VLDL.TG	7.86%	≤0.91 / ≥1.10	≤-0.10 / ≥0.10	≤0.69 / ≥1.44
L.VLDL.C	7.04%	≤0.91 / ≥1.10	≤-0.11 / ≥0.11	≤0.68 / ≥1.47
L.VLDL.TG	5.49%	≤0.89 / ≥1.12	≤-0.12 / ≥0.12	≤0.65 / ≥1.54
XL.VLDL.TG	4.40%	≤0.88 / ≥1.13	≤-0.13 / ≥0.13	≤0.62 / ≥1.62
XXL.VLDL.TG	3.30%	≤0.87 / ≥1.15	≤-0.15 / ≥0.15	≤0.57 / ≥1.74

Shown are the ranges of associations estimates that could be detected with a power of 1-β>0.8 and at a statistical significance threshold of α<0.05.

^a $R^2 = (\beta \times \sqrt{2 \times MAF(1 - MAF)})^2$, where MAF is the minimum allele frequency and beta is the effect of the SNP on the respective cytokine levels (Park et al 2010, Nat. Genet. 42, 570–575).

^b Odds Ratios are presented for the binary outcomes (small vessel stroke, intracerebral hemorrhage) and beta coefficients for the continuous outcomes (white matter hyperintensities volume).

^c The R² for CETP, HMGCR, NPC1L1, PCSK9, ABCG5/G8, LDLR, PPARA, ANGPTL3, ANGPTL4, APOC3, and LPL drug targets correspond to the variance explained by variants in these loci for HDL-C, LDL-C, TG levels, as appropriately.

Supplementary Table 7. Mendelian randomization (MR) association estimates of cholesterol and triglyceride concentrations across lipoprotein particles with small vessel stroke and WMH volume. Shown are the results derived from IVW MR analyses.

Outcome	Small vessel stroke				WMH volume			
	SNPs (N)	OR (95%CI)	p-value	p-het	SNPs (N)	beta (95%CI)	p-value	p-het
Cholesterol in HDL particles								
M.HDL.C	8	0.84 (0.73-0.96)	0.007	0.183	10	-0.09 (-0.16 to -0.02)	0.009	0.232
L.HDL.C	42	0.99 (0.94-1.05)	0.781	0.509	54	0.00 (-0.03 to 0.03)	0.930	0.443
XL.HDL.C	30	0.98 (0.91-1.06)	0.646	0.044	36	0.00 (-0.04 to 0.04)	0.884	0.915
Cholesterol in LDL and larger particles								
S.LDL.C	36	1.08 (1.02-1.15)	0.010	0.539	46	0.06 (0.02 to 0.11)	0.002	0.012
M.LDL.C	36	1.07 (1.01-1.14)	0.030	0.716	49	0.06 (0.02 to 0.10)	0.002	0.027
L.LDL.C	40	1.07 (1.01-1.13)	0.022	0.614	57	0.06 (0.02 to 0.09)	0.002	0.095
IDL.C	42	1.08 (1.02-1.14)	0.008	0.589	42	0.05 (0.01 to 0.09)	0.008	0.027
S.VLDL.C	26	1.08 (1.00-1.18)	0.057	0.186	31	0.05 (-0.01 to 0.10)	0.091	0.367
M.VLDL.C	24	1.09 (1.01-1.19)	0.033	0.137	24	-0.01 (-0.07 to 0.06)	0.866	0.472
L.VLDL.C	17	1.05 (0.95-1.16)	0.354	0.116	17	-0.05 (-0.12 to 0.03)	0.215	0.791
Triglycerides in lipoprotein particles								
S.HDL.TG	25	1.14 (1.04-1.23)	0.003	0.175	31	-0.04 (-0.09 to 0.02)	0.200	0.018
XL.HDL.TG	76	1.03 (0.99-1.07)	0.165	0.437	88	0.00 (-0.02 to 0.03)	0.744	0.846
IDL.TG	41	1.07 (1.01-1.14)	0.027	0.685	41	0.02 (-0.02 to 0.06)	0.355	0.013
XS.VLDL.TG	27	1.07 (0.99-1.15)	0.095	0.325	28	-0.02 (-0.07 to 0.04)	0.568	0.039
S.VLDL.TG	26	1.08 (0.99-1.17)	0.074	0.164	26	-0.03 (-0.09 to 0.03)	0.264	0.177
M.VLDL.TG	18	1.03 (0.94-1.14)	0.509	0.162	21	-0.03 (-0.10 to 0.05)	0.486	0.857
L.VLDL.TG	15	1.04 (0.94-1.17)	0.432	0.029	15	-0.06 (-0.14 to 0.02)	0.131	0.663
XL.VLDL.TG	12	1.01 (0.89-1.15)	0.829	0.108	14	-0.04 (-0.13 to 0.04)	0.315	0.878
XXL.VLDL.TG	8	1.03 (0.89-1.21)	0.673	0.213	10	-0.04 (-0.14 to 0.06)	0.432	0.751

Bold indicates p-values <0.05 after adjustment for false discovery rate (FDR).

Odds Ratios correspond to 1 SD increment in the corresponding variable. P-het values correspond to the p-value of the Cochran's Q statistic exploring heterogeneity across the estimates.

Supplementary Table 8. Multivariable Mendelian randomization (MR) association estimates of cholesterol and triglyceride concentrations across lipoprotein particles with small vessel stroke and WMH volume.

Outcome	Small vessel stroke		WMH volume	
	OR (95%CI)	p-value	beta (95%CI)	p-value
Cholesterol in HDL particles [adjusted for LDL-C and TG]				
M.HDL.C	0.83 (0.76-0.91)	4.3x10⁻⁵	-0.08 (-0.13 to -0.02)	0.008
L.HDL.C	0.95 (0.90-1.00)	0.063	-0.03 (-0.07 to 0.01)	0.145
XL.HDL.C	0.95 (0.89-1.01)	0.090	-0.02 (-0.07 to 0.02)	0.314
Cholesterol in LDL and larger particles [adjusted for HDL-C and TG]				
S.LDL.C	1.11 (1.03-1.19)	0.004	0.02 (-0.02 to 0.06)	0.366
M.LDL.C	1.11 (1.04-1.18)	0.002	0.02 (-0.02 to 0.06)	0.325
L.LDL.C	1.11 (1.04-1.19)	0.001	0.02 (-0.02 to 0.06)	0.338
IDL.C	1.11 (1.04-1.18)	0.001	0.02 (-0.02 to 0.05)	0.413
S.VLDL.C	1.15 (1.04-1.26)	0.005	-0.01 (-0.07 to 0.05)	0.821
M.VLDL.C	1.17 (1.02-1.35)	0.024	-0.05 (-0.14 to 0.05)	0.326
L.VLDL.C	1.08 (0.90-1.30)	0.420	-0.11 (-0.23 to 0.00)	0.058
TG in any lipoprotein particles [adjusted for HDL-C and LDL-C]				
S.HDL.TG	1.11 (1.02-1.22)	0.016	-0.06 (-0.12 to 0.00)	0.047
XL.HDL.TG	1.07 (1.02-1.14)	0.010	-0.03 (-0.07 to 0.01)	0.132
IDL.TG	1.09 (1.01-1.17)	0.018	-0.05 (-0.09 to 0.00)	0.051
XS.VLDL.TG	1.07 (1.00-1.15)	0.052	-0.04 (-0.08 to 0.01)	0.117
S.VLDL.TG	1.05 (0.97-1.13)	0.242	-0.04 (-0.09 to 0.00)	0.072
M.VLDL.TG	1.04 (0.96-1.13)	0.362	-0.06 (-0.10 to -0.01)	0.030
L.VLDL.TG	1.03 (0.94-1.12)	0.524	-0.05 (-0.11 to 0.00)	0.063
XL.VLDL.TG	1.00 (0.91-1.09)	0.937	-0.06 (-0.11 to 0.00)	0.038
XXL.VLDL.TG	1.02 (0.93-1.13)	0.646	-0.05 (-0.11 to 0.01)	0.117

Bold indicates p-values <0.05 after adjustment for false discovery rate (FDR).

Odds Ratios correspond to 1 SD increment in the corresponding variable.

For the multivariable MR analyses we used a genetic score for HDL-C, LDL-C and larger particle cholesterol, and for TGT, by combining all unique instruments significantly associated with HDL-C or cholesterol concentrations in HDL particles, LDL-C or cholesterol concentrations in LDL and larger ApoB particles, and with TG or triglyceride concentrations in any TG particles, respectively.

Supplementary Table 9. Mendelian randomization (MR) association estimates of cholesterol and triglyceride concentrations across lipoprotein particles with small vessel stroke and WMH volume, as derived from alternative MR methods in case of heterogeneity ($p < 0.10$ in Cochran's Q) in the IVW analysis. Shown are the results derived from weighed median and MR-Egger analyses.

Small vessel stroke	MR method	OR	SE	95%CI		p-value
XL.HDL.C	IVW	0.96	0.062	0.85	1.09	0.537
	Weighted median	1.02	0.068	0.90	1.17	0.731
	MR Egger	0.95	0.212	0.63	1.44	0.812
	Egger Intercept	1.00	0.023	0.96	1.05	0.952
L.VLDL.TG	IVW	1.05	0.077	0.90	1.22	0.536
	Weighted median	1.01	0.079	0.86	1.18	0.910
	MR Egger	1.13	0.206	0.76	1.69	0.549
	Egger Intercept	0.99	0.022	0.95	1.03	0.690
WMH volume						
Small vessel stroke	MR method	beta	SE	95%CI		p-value
S.LDL.C	IVW	0.066	0.027	0.013	0.118	0.014
	Weighted median	0.054	0.03	-0.005	0.114	0.072
	MR Egger	0.098	0.05	0.000	0.197	0.050
	Egger Intercept	-0.005	0.006	-0.017	0.008	0.438
M.LDL.C	IVW	0.063	0.024	0.017	0.110	0.008
	Weighted median	0.088	0.032	0.026	0.150	0.006
	MR Egger	0.101	0.043	0.017	0.185	0.019
	Egger Intercept	-0.006	0.006	-0.017	0.005	0.292
L.LDL.C	IVW	0.058	0.021	0.017	0.099	0.005
	Weighted median	0.065	0.03	0.005	0.124	0.033
	MR Egger	0.099	0.037	0.027	0.171	0.007
	Egger Intercept	-0.007	0.005	-0.016	0.003	0.172
IDL.C	IVW	0.050	0.023	0.005	0.095	0.028
	Weighted median	0.053	0.027	0.000	0.106	0.051
	MR Egger	0.114	0.041	0.033	0.195	0.006
	Egger Intercept	-0.009	0.005	-0.018	0.001	0.067
IDL.TG	IVW	0.021	0.027	-0.031	0.073	0.428
	Weighted median	0.013	0.036	-0.056	0.083	0.710
	MR Egger	0.082	0.066	-0.047	0.211	0.214
	Egger Intercept	-0.008	0.008	-0.023	0.007	0.313
XS.VLDL.TG	IVW	-0.016	0.037	-0.088	0.056	0.667
	Weighted median	0.002	0.044	-0.084	0.088	0.964
	MR Egger	-0.036	0.119	-0.268	0.196	0.762
	Egger Intercept	0.002	0.012	-0.022	0.026	0.858

Odds Ratios correspond to 1 SD increment in the corresponding variable.

Supplementary Table 10. Mendelian randomization (MR) association estimates of HDL-C raising variants in/close to the *CEPT* locus, and risk of small vessel stroke, as derived from alternative MR methods. Shown are the results derived from weighed median and MR-Egger analyses, because the IVW MR analysis showed significant heterogeneity.

Small vessel stroke	MR method	OR	95%CI	p-value
HDL-C raising variants in <i>CETP</i>	IVW MR	0.82	(0.75-0.89)	0.001
	Weighted median	0.81	(0.68-0.96)	0.014
	MR Egger	0.71	(0.57-0.89)	0.003
	Egger Intercept	1.01	(0.99-1.03)	0.404

Odds Ratios correspond to 1 SD increment in HDL-C for the *CETP* variants.

Supplementary Table 11. Mendelian randomization (MR) association estimates of HDL-C raising variants in/close to the *CEPT* locus, and risk of small vessel stroke, WMH volume, and risk of intracerebral hemorrhage, as derived from IVW MR analyses and multivariable MR analyses adjusting for the effects of the variants on both HDL-C and LDL-C. Shown are the results derived from the IVW MR and multivariable MR analyses.

Outcome	IVW MR		Multivariable MR	
	Effect estimate (95%CI)	p-value	Effect estimate (95%CI)	p-value
Small vessel stroke	OR		OR	
HDL-C (1 SD increment)	0.82 (0.75-0.89)	9.0x10 ⁻⁶	0.87 (0.74-1.02)	0.094
LDL-C (1 SD decrement)	0.41 (0.23-0.73)	0.003	1.40 (0.64-3.06)	0.414
WMH volume	beta		beta	
HDL-C (1 SD increment)	-0.08 (-0.13 to -0.02)	0.008	-0.27 (-0.64 to 0.11)	0.166
LDL-C (1 SD decrement)	-0.28 (0.00 to 0.56)	0.048	0.34 (-2.15 to 1.47)	0.714

Odds Ratios and beta coefficients correspond to 1 SD increment in HDL-C and 1 SD decrement in LDL-C.

Supplementary Table 12. Mendelian randomization (MR) association estimates of cholesterol and triglyceride concentrations across lipoprotein particles with intracerebral hemorrhage.

Shown are the results derived from IVW MR and multivariable MR analyses.

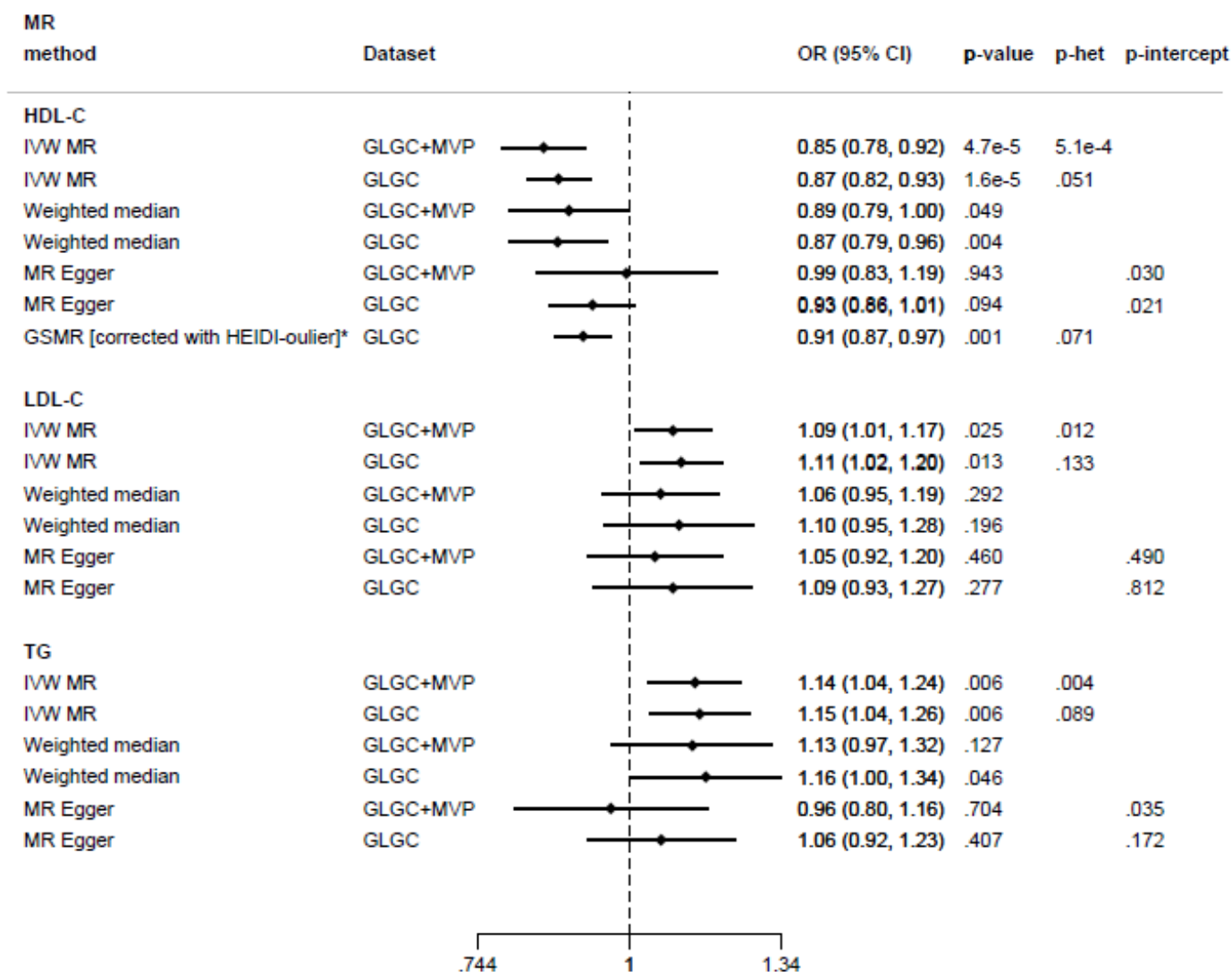
Outcome	IVW MR				Multivariable MR	
	SNPs (N)	OR (95%CI)	p-value	p-het	OR (95%CI)	p-value
Cholesterol in HDL particles [adjusted for LDL-C and TG]						
M.HDL.C	8	1.33 (0.92-1.92)	0.124	0.183	1.51 (1.17-1.95)	0.001
L.HDL.C	42	1.06 (0.89-1.26)	0.534	0.509	1.09 (0.93-1.29)	0.295
XL.HDL.C	30	1.07 (0.85-1.34)	0.570	0.044	1.15 (0.94-1.40)	0.172
Cholesterol in LDL and larger particles [adjusted for HDL-C and TG]						
S.LDL.C	36	0.76 (0.63-0.93)	0.007	0.702	0.84 (0.69-1.01)	0.066
M.LDL.C	36	0.81 (0.67-0.97)	0.019	0.472	0.85 (0.71-1.02)	0.088
L.LDL.C	40	0.79 (0.67-0.94)	0.008	0.283	0.83 (0.70-0.99)	0.036
IDL.C	42	0.78 (0.65-0.92)	0.004	0.589	0.78 (0.66-0.93)	0.004
S.VLDL.C	26	0.86 (0.66-1.12)	0.264	0.040	0.80 (0.61-1.05)	0.106
M.VLDL.C	24	1.01 (0.78-1.32)	0.923	0.074	0.90 (0.60-1.34)	0.592
L.VLDL.C	17	1.21 (0.86-1.69)	0.267	0.035	0.87 (0.51-1.49)	0.614
Triglycerides in any lipoprotein particle [adjusted for HDL-C and LDL-C]						
S.HDL.TG	25	0.85 (0.66-1.10)	0.223	0.175	1.14 (0.87-1.50)	0.346
XL.HDL.TG	76	0.93 (0.82-1.06)	0.291	0.437	0.94 (0.79-1.12)	0.477
IDL.TG	41	0.84 (0.68-1.04)	0.117	0.171	0.88 (0.70-1.10)	0.265
S.VLDL.TG	26	1.07 (0.82-1.39)	0.620	0.095	1.05 (0.84-1.31)	0.665
XS.VLDL.TG	27	0.96 (0.74-1.24)	0.732	0.156	1.09 (0.87-1.37)	0.447
M.VLDL.TG	18	1.13 (0.82-1.54)	0.458	0.050	1.23 (0.97-1.54)	0.085
L.VLDL.TG	15	1.40 (0.98-2.00)	0.065	0.249	1.26 (0.99-1.60)	0.055
XL.VLDL.TG	12	1.46 (0.99-2.14)	0.056	0.145	1.25 (0.97-1.60)	0.081
XXL.VLDL.TG	8	1.19 (0.77-1.86)	0.434	0.124	1.22 (0.92-1.61)	0.165

Bold indicates p-values <0.05 after adjustment for false discovery rate (FDR).

Odds Ratios correspond to 1 SD increment in the corresponding variable. P-het values correspond to the p-value of the Cochran's Q statistic exploring heterogeneity across the estimates.

For the multivariable MR analyses we used a genetic score for HDL-C, LDL-C and larger particle cholesterol, and for triglycerides, by combining all unique instruments significantly associated with HDL-C or cholesterol concentrations in HDL particles, LDL-C or cholesterol concentrations in LDL and larger ApoB particles, and with TG or triglyceride concentrations in any TG particles. For the concentration of cholesterol in HDL particles, we have performed adjustments for LDL-C and TG, for concentration of cholesterol in LDL and larger ApoB particles, we have performed adjustments for HDL-C and TG, and for triglyceride concentrations we have performed adjustments for HDL-C and LDL-C.

Supplementary Figure 1. Sensitivity Mendelian randomization (MR) analyses between genetic determinants of blood lipid levels (HDL-C, LDL-C, TG) with risk of small vessel stroke. Shown are the results derived from IVW MR, weighted median, MR-Egger, and the GSMR approach incorporated with the HEIDI-outlier detector. The genetic instruments are weighted either based on the estimates derived from the full GLGC+MVP sample, or from those derived from the restricted GLGC dataset, where patients under lipid-modifying treatment had been excluded.



GLGC: global lipids genetics consortium; MVP: millions veteran program.

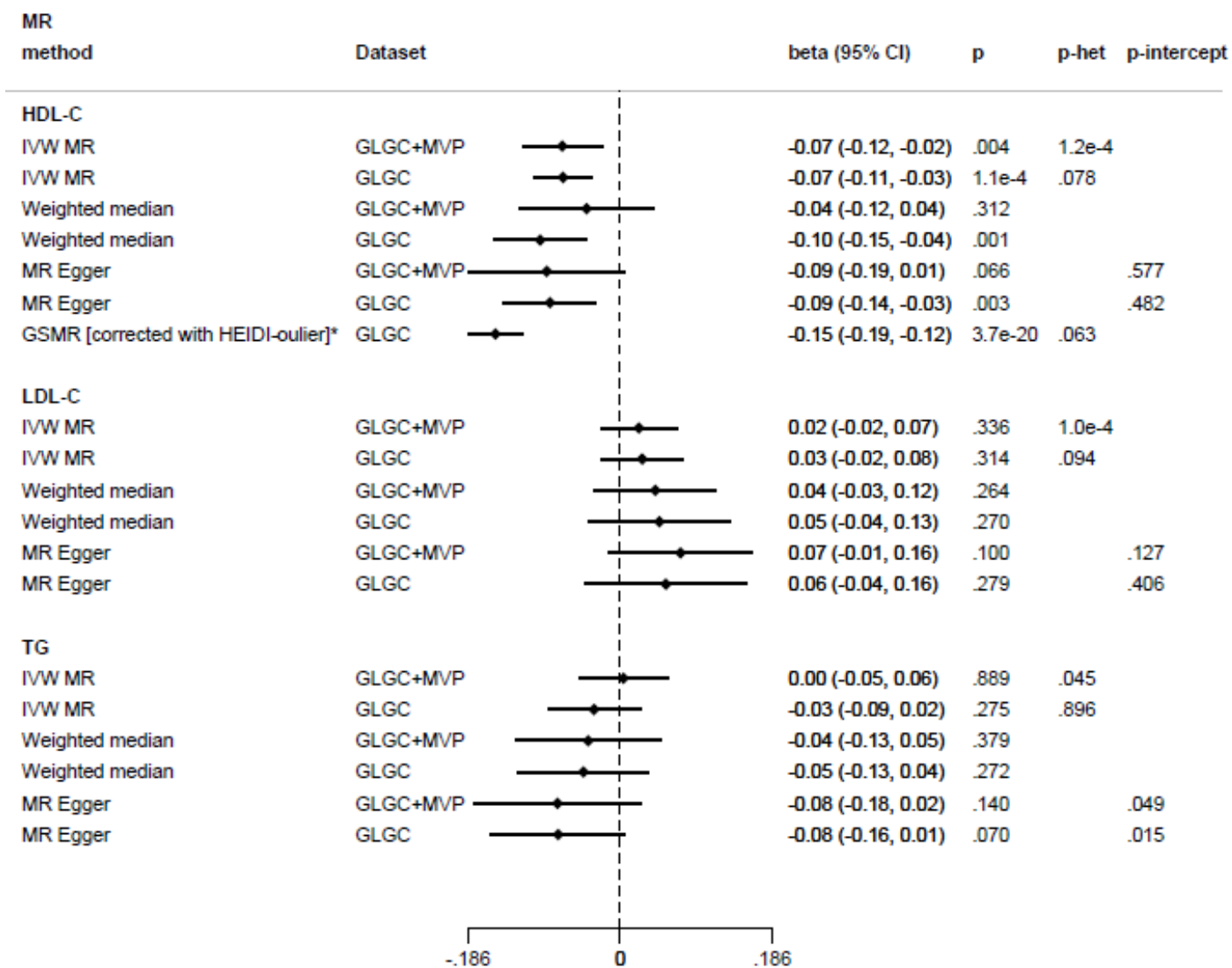
* the HEIDI-outlier approach detected rs11875988, rs11065979, and rs12417015 as outliers and excluded them from the analyses

p-het: derived from the Cochran Q statistic for the IVW analyses and from the global heterogeneity test for the GSMR analyses.

p-intercept: statistical significance of the intercept derived from MR-Egger regression analyses

Supplementary Figure 2. Sensitivity Mendelian randomization (MR) analyses between genetic determinants of blood lipid levels (HDL-C, LDL-C, TG) with WMH volume.

Shown are the results derived from IVW MR, weighted median, MR-Egger, and the GSMR approach incorporated with the HEIDI-outlier detector. The genetic instruments are weighted either based on the estimates derived from the full GLGC+MVP sample, or from those derived from the restricted GLGC dataset, where patients under lipid-modifying treatment had been excluded.



GLGC: global lipids genetics consortium; MVP: millions veteran program.

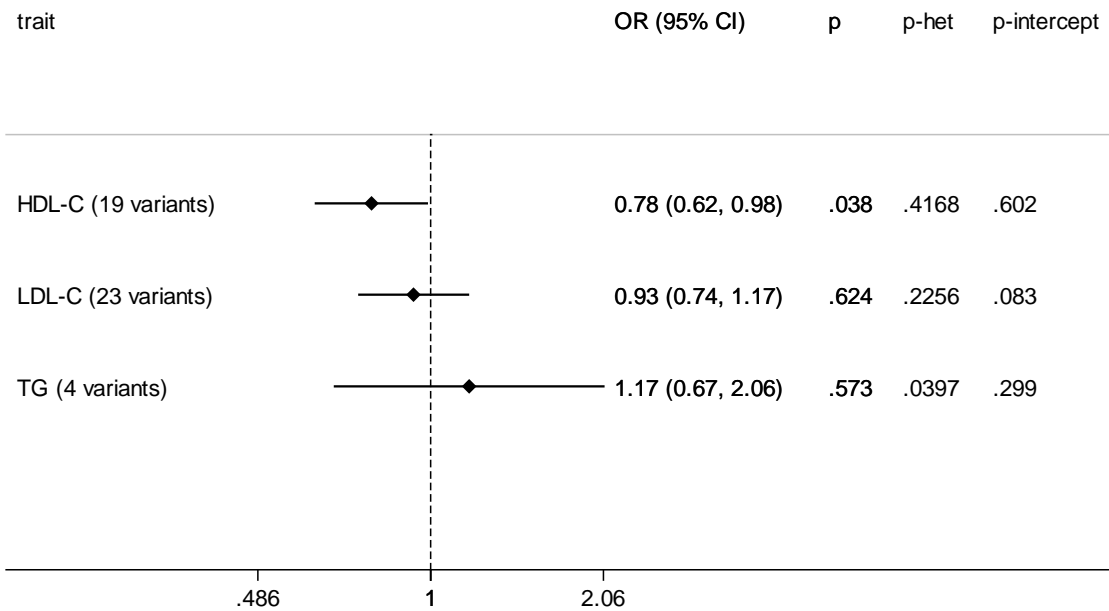
* the HEIDI-outlier approach detected rs701106 and rs13116385 as outliers and excluded them from the analyses

p-het: derived from the Cochran Q statistic for the IVW analyses and from the global heterogeneity test for the GSMR analyses.

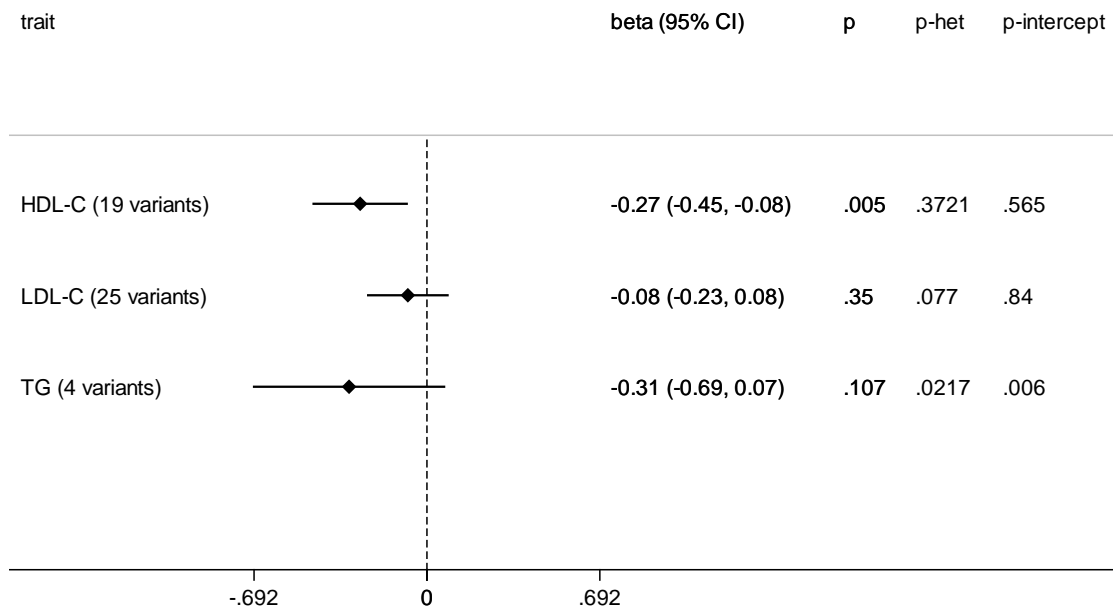
p-intercept: statistical significance of the intercept derived from MR-Egger regression analyses

Supplementary Figure 3. Mendelian randomization (MR) associations between genetic determinants of blood lipid levels (HDL-C, LDL-C, TG) with (A) risk of small vessel stroke and (B) WMH volume when restricting instrument selection to those specific for the respective traits. Shown are the results derived from IVW MR.

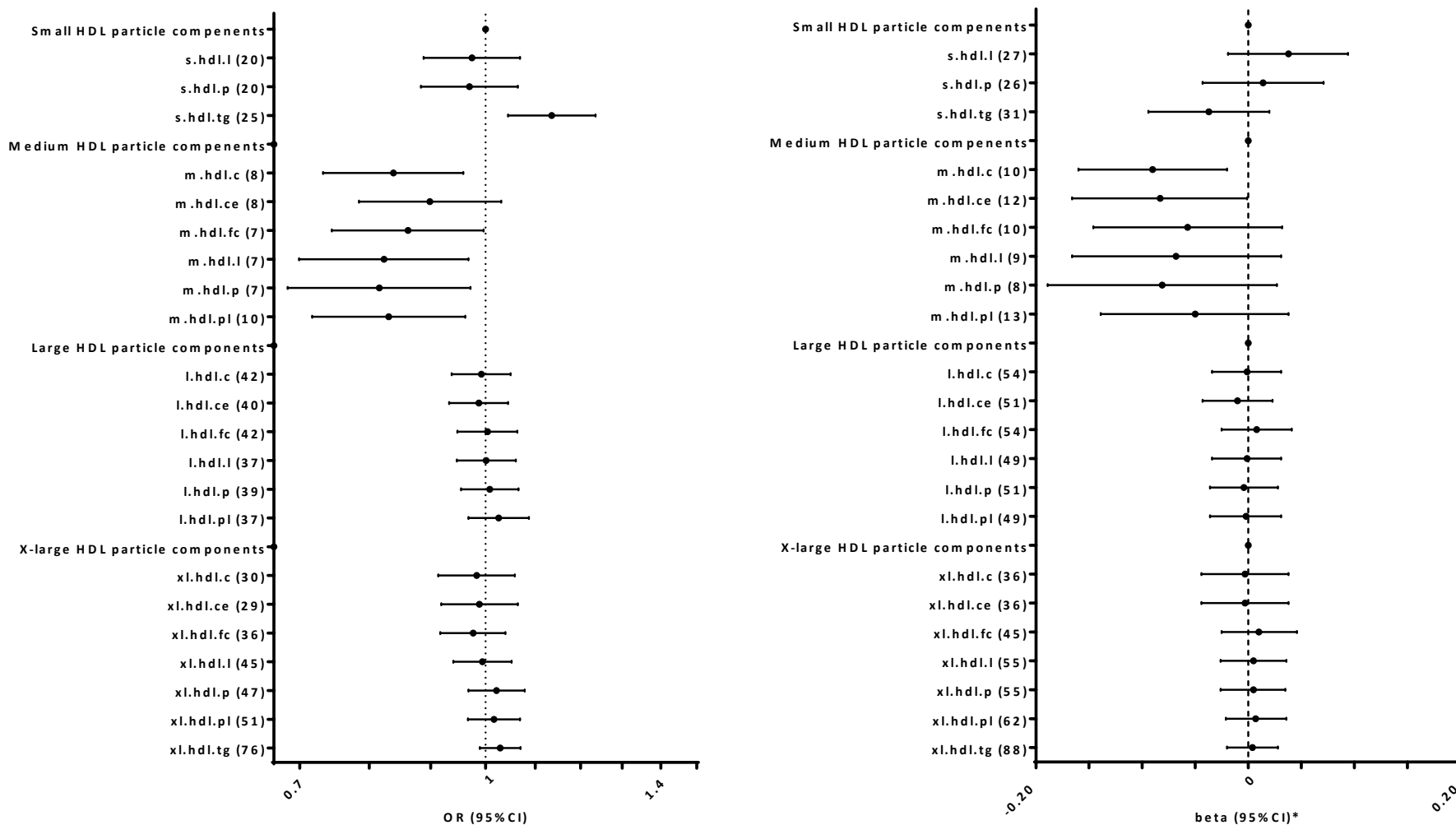
(A) Small vessel stroke



(B) WMH volume



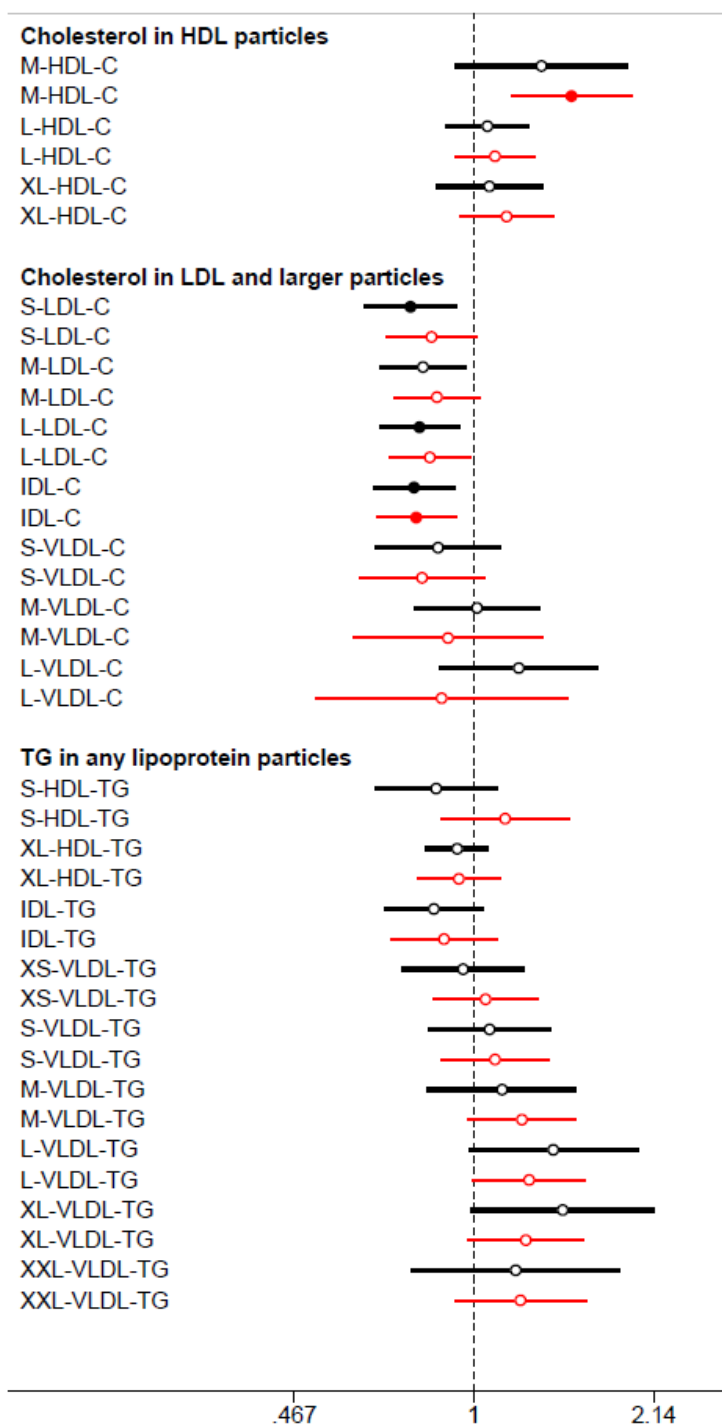
Supplementary Figure 4. Mendelian randomization (MR) associations of all components of the HDL lipoprotein particles defined by size with (A) risk of small vessel stroke and (B) WMH volume. Shown are the results derived from IVW MR analyses.



The first part of the abbreviations for the particle components indicates the size of the particles (small, medium, large, extra-large); the second refers to the type of lipoprotein particles (here HDL); the third part indicates the measured component in the respective size-defined particle: c, total cholesterol; ce, cholesterol-esters; fc, free cholesterol; l, total lipids; p, concentration of this particle class; pl, phospholipids; tg, triglycerides.

Supplementary Figure 5. Mendelian randomization (MR) associations of cholesterol (C) and triglyceride (TG) concentrations in lipoprotein particles defined by size with intracerebral hemorrhage. Shown are the results derived from IVW MR analyses.

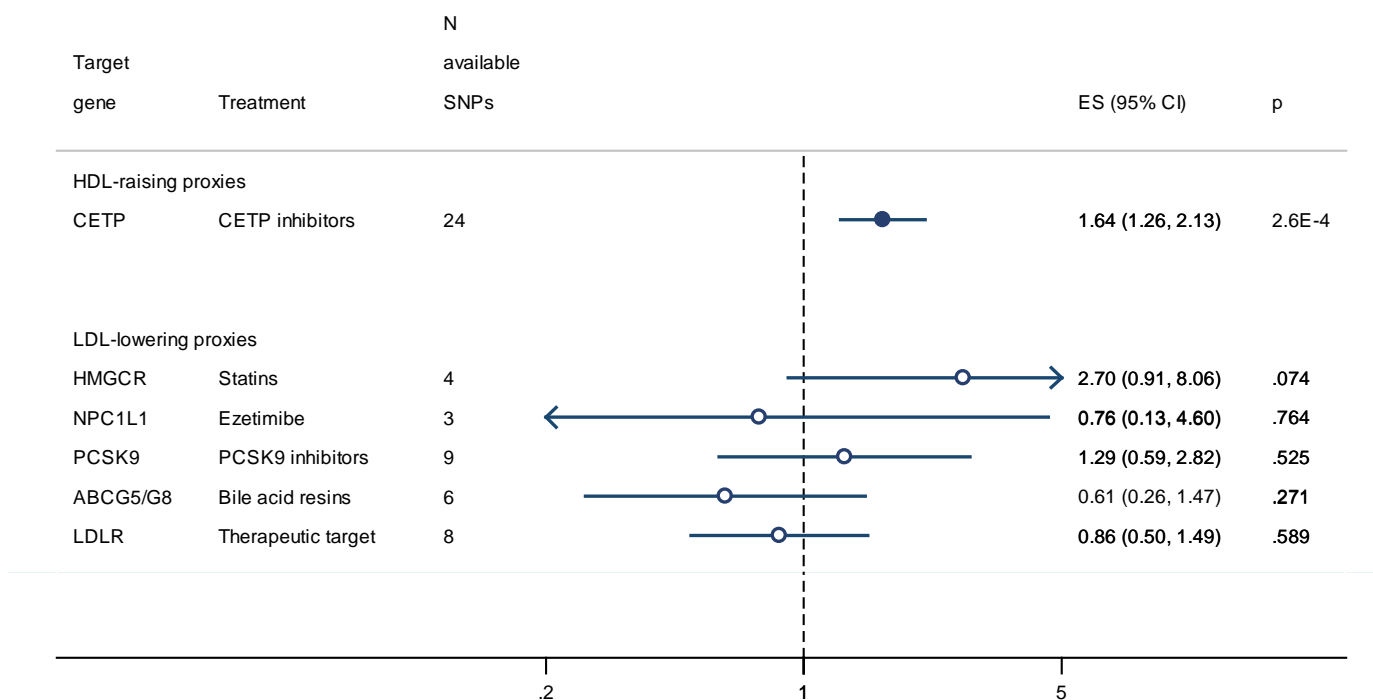
trait



Solid-centre circles indicate association estimates with a q-value <0.05 after adjusting for multiple testing comparisons with the false discovery rate (FDR).

The black point estimates and confidence interval lines correspond to the results of the random-effects IVW MR analyses, whereas the red point estimates and confidence interval lines to the multivariable MR analyses.

Supplementary Figure 6. Mendelian randomization associations between HDL-C-raising and LDL-C-lowering genetic variants in the loci of known lipid-modifying drug targets and risk of intracerebral hemorrhage. Shown are the results derived from IVW MR analyses.



The results are scaled per 1 SD increment in circulating HDL-C levels for the HDL-C-raising drug targets and per 1 SD increment in circulating LDL- for the LDL-C-lowering drug targets, respectively.

Supplementary Figure 7. Mendelian randomization (MR) associations between HDL-C-raising genetic variants in the *CETP* locus and risk of (A) deep and (B) lobar intracerebral hemorrhage (ICH). Shown are the results from the IVW MR analyses. The results are scaled per 1 SD increment in circulating HDL-C levels.

