Supplementary Online Content

Björnsson E, Thorleifsson G, Helgadóttir A, et al. Association of genetically predicted lipid levels with the extent of coronary atherosclerosis in Icelandic adults. *JAMA Cardiol*. Published online November 20, 2019. doi:10.1001/jamacardio.2019.2946

This supplementary material has been provided by the authors to give readers additional information about their work.

eMethods. Methods.

The UK Biobank Study

In the years 2006–2010, the UK Biobank study recruited 502,647 individuals aged 37–76 years from across the country[1]. All participants provided information regarding their health and lifestyle via touch screen questionnaires, consented to physical and genetic measurements, and agreed to have their health followed. Genotype imputation data was available for 487,409 participants (May 2017 release), of which 408,658 were used in the analysis. The 408,658 individuals were selected as self-reported white British with similar genetic ancestry based on principal component analysis and with consistent reported and genetically determined gender. Imputation was performed by Wellcome Trust Centre for Human Genetics using the Haplotype Reference Consortium (HRC) and the UK10K haplotype resources.[2] The UK Biobank has ethical approval from the Northwest Multi-Centre Research Ethics Committee, and informed consent was obtained from all participants. The UK Biobank resource was accessed under Application Number '24711'.

Testing for Association with risk of CAD

Tests of association with risk of CAD were performed using Icelandic data with replication in participants of the UK Biobank study. Icelandic CAD cases (n = 19 123) were defined as previously described[3], primarily on the basis of International Classification of Diseases (ICD) codes indicative of CAD (including myocardial infarction) from LUH, documentation of obstructive CAD on coronary angiography (using the registries described in the main text), relevant surgical procedure codes or death due to coronary heart disease. For participants in the UK Biobank, cases of CAD (n = 28 110) were defined on the basis of ICD codes indicative of CAD (including myocardial infarction) or relevant surgical procedure codes.

Blood Lipid Measurements

We obtained blood lipid measurements from three of the largest clinical laboratories in Iceland: (i) Landspítali – The National University Hospital, Reykjavík (hospitalized and ambulatory patients); (ii) the Laboratory in Mjódd, Reykjavík (ambulatory patients); and (iii) Akureyri Hospital, Regional Hospital in North Iceland, Akureyri (hospitalized and ambulatory patients). LDL cholesterol was calculated using the Friedewald equation[4] for triglyceride levels <4.00 mmol/L (350 mg/dL). Non-HDL cholesterol was calculated by subtracting HDL cholesterol from total cholesterol. For individuals taking lipid-lowering medication, total cholesterol was multiplied by 1.25 and the modified value was used for calculation of LDL cholesterol and non-HDL cholesterol. Triglycerides were log-transformed using the natural logarithm. For each lipid trait, residuals were obtained after accounting for age, age^2, sex, measurement site and county of birth. For individuals with multiple measurements, we used the average of the residuals after adjustment for covariates. Mean lipid levels (raw measurements and adjusted residuals) in genotyped Icelanders are presented in **eTable 5**.

eTable 1. Reported Lipid-Associated Variants Used for Calculation of the Genetic Scores

Position (hg19)	Position (hg38)	dbSNP (build 146)	Gene	Context	Alleles (REF/ALT)	Allele frequency (ALT)		Imputation information	Effect sizes (SD) for calculation of genetic scores[a]				
						Reported	Iceland		TC	HDL-C	nonHDL-C	LDL-C	TG
345 variants used for calculation of the genetic scores, with pairwise $r^2 < 0.20$													
1:109817590	chr1:109274968	rs12740374	*CELSR2*	Utr3	G/T	0.22	0.20	1	-0.13	0.045	-0.14	-0.16	-0.016
1:150940625	chr1:150968149	rs267738	*LASS2*	Glu115Ala	T/G	0.18	0.23	1	-0.0069	0.024	-0.015	-0.013	-0.0028
1:155106227	chr1:155133751	rs4745	*EFNA1*	Asp137Val	A/T	0.49	0.45	1	-0.013	0.0033	-0.014	-0.015	-0.0017
1:156700651	chr1:156730859	rs12145743	*RRNAD1*	Intron	T/G	0.31	0.28	1	0.00091	0.017	-0.0051	-0.0017	-0.011
1:172346548	chr1:172377408	rs1011731	*DNM3*	Intron	G/A	0.56	0.57	1	-0.0039	0.015	-0.0091	-0.0038	-0.015
1:178515312	chr1:178546177	rs4650994	*C1orf220*	Intron	G/A	0.49	0.49	1	-0.0011	-0.019	0.0056	0.0022	0.0092
1:182168885	chr1:182199750	rs1689800	*ZNF648*	Intergenic	A/G	0.34	0.33	1	0.0034	-0.025	0.012	0.013	0.0083
1:183094547	chr1:183125412	rs20558	*LAMC1*	Leu888Pro	T/C	0.56	0.52	1	0.016	0.0095	0.012	0.015	-0.00053
1:219687432	chr1:219514090	rs2785990	*LYPLAL1*	Intergenic	C/T	0.68	0.63	1	0.0098	-0.015	0.015	0.0095	0.016
1:221057646	chr1:220884304	rs2738755	*HLX*	Pro356Leu	C/T	0.33	0.30	1	-0.013	-0.0032	-0.012	-0.015	0.0043
1:230295691	chr1:230159944	rs4846914	*GALNT2*	Intron	G/A	0.55	0.60	0.999	0.0023	0.049	-0.015	0.00016	-0.039
1:23766233	chr1:23439740	rs1077514	*ASAP3*	Intron	C/T	0.82	0.83	1	0.027	0.0099	0.023	0.015	0.019
1:25768937	chr1:25442446	rs10903129	*TMEM57*	Intron	A/G	0.53	0.52	1	0.028	0.0047	0.026	0.028	0.0076
1:27138393	chr1:26811902	rs12748152	*PIGV*	Intergenic	C/T	0.072	0.12	1	0.02	-0.043	0.035	0.031	0.031
1:40028180	chr1:39562508	rs4660293	*PABPC4*	Intron	A/G	0.21	0.23	1	-0.0065	-0.04	0.0078	0.00097	0.024
1:55496039	chr1:55030366	rs11206510	*PCSK9*	Intergenic	T/C	0.17	0.17	0.999	-0.064	0.0065	-0.065	-0.07	-0.01
1:55504650	chr1:55038977	rs2479409	*PCSK9*	Intergenic	G/A	0.66	0.68	0.999	-0.04	0.0095	-0.043	-0.047	-0.002
1:55505647	chr1:55039974	rs11591147	*PCSK9*	Arg46Leu	G/T	0.015	0.012	0.999	-0.41	0.042	-0.42	-0.48	-0.0049
1:55509585	chr1:55043912	rs151193009	*PCSK9*	Arg93Cys	C/T	0.00054	0.000013	1	-0.61	-0.05	-0.58	-0.68	0.012
1:55529187	chr1:55063514	rs505151	*PCSK9*	Gly670Glu	G/A	0.95	0.93	1	-0.08	0.0078	-0.081	-0.09	-0.0066
1:63118196	chr1:62652525	rs10889353	*DOCK7*	Intron	A/C	0.33	0.33	1	-0.072	-0.01	-0.067	-0.045	-0.077
1:93009438	chr1:92543881	rs7515577	*EVI5*	Intron	C/A	0.82	0.80	1	0.031	0.0042	0.029	0.03	0.0091
1:93584606	chr1:93119049	rs4847399	*MTF2*	Intron	G/A	0.61	0.59	1	-0.014	-0.021	-0.0063	-0.012	0.0096
2:101627925	chr2:101011463	rs1062062	*TBC1D8*	Gly954Arg	C/T	0.12	0.10	1	-0.021	0.0024	-0.021	-0.021	-0.0045
2:113841030	chr2:113083453	rs6734238	*DRAM2*	Intergenic	A/G	0.39	0.45	1	-0.014	-0.00041	-0.014	-0.012	-0.01
2:118815958	chr2:118058382	rs17526895	*MTOR*	Intergenic	A/G	0.068	0.069	1	-0.047	0.0042	-0.047	-0.054	-0.0099
2:121309488	chr2:120551912	rs2030746	*PTPN22*	Intergenic	C/T	0.41	0.40	1	0.014	-0.0014	0.014	0.014	0.0046
2:136590746	chr2:135833176	rs3754689	*LCT*	Val219Ile	C/T	0.18	0.09	1	0.027	0.019	0.02	0.019	-0.004
2:165528876	chr2:164672366	rs13389219	*FLG*	Intergenic	C/T	0.40	0.45	1	-0.0069	0.035	-0.019	-0.0095	-0.037
2:165551201	chr2:164694691	rs7607980	*COBLL1*	Asn939Asp	T/C	0.12	0.14	1	-0.00045	0.05	-0.018	-0.0041	-0.045
2:169830155	chr2:168973645	rs2287623	*ABCB11*	Intron	G/A	0.59	0.61	1	-0.021	-0.006	-0.018	-0.021	-0.008
2:202122995	chr2:201258272	rs3769823	*CASP8*	Lys14Arg	A/G	0.69	0.68	1	0.0068	-0.0027	0.0076	0.0013	0.017
2:20396122	chr2:20196361	rs6749689	*EPHA2*	Intergenic	T/C	0.57	0.58	0.999	-0.02	-0.01	-0.016	-0.011	-0.016
2:203519783	chr2:202655060	rs6435161	*FAM117B*	Intron	T/G	0.27	0.31	1	-0.027	-0.014	-0.021	-0.018	-0.018
2:203880992	chr2:203016269	rs2351524	*NBEAL1*	Utr5	T/C	0.89	0.87	1	0.027	0.0054	0.025	0.024	0.01
2:21225485	chr2:21002613	rs1801702	*APOB*	Arg4270Thr	C/G	0.027	0.008	1	-0.082	0.016	-0.086	-0.091	-0.0064
2:21229160	chr2:21006288	rs5742904	*APOB*	Arg3527Gln	C/T	0.00038	0.000027	0.97	1.28	-0.016	1.3	1.48	-0.22
2:21231524	chr2:21008652	rs676210	*APOB*	Pro2739Leu	G/A	0.26	0.23	1	-0.037	0.06	-0.057	-0.039	-0.071
2:21233972	chr2:21011100	rs533617	*APOB*	His1923Arg	T/C	0.039	0.044	0.999	-0.11	0.085	-0.14	-0.13	-0.098
2:21238367	chr2:21015495	rs12713843	*APOB*	Arg1128His	C/T	0.0044	0.002	1	-0.19	0.08	-0.21	-0.23	-0.078
2:21252534	chr2:21029662	rs13306194	*APOB*	Arg532Trp	G/A	0.0051	0.000058	1	-0.11	0.056	-0.13	-0.12	-0.096
2:21263900	chr2:21041028	rs1367117	*APOB*	Thr98Ile	G/A	0.29	0.35	0.999	0.092	-0.02	0.097	0.11	0.023

2:21294975	chr2:21072103	rs541041	*TNFSF4*	Intergenic	G/A	0.81	0.85	1	0.11	-0.0095	0.11	0.12	0.018
2:219555262	chr2:218690539	rs1344642	*STK36*	Arg583Gln	G/A	0.44	0.43	1	-0.0091	0.0066	-0.011	-0.0077	-0.015
2:227093745	chr2:226229029	rs2943641	*ALDH4A1*	Intergenic	T/C	0.66	0.61	1	0.0045	-0.036	0.017	0.0067	0.033
2:234668570	chr2:233759924	rs887829	*UGT1A10*	Intron	C/T	0.34	0.32	1	-0.023	0.00023	-0.023	-0.022	-0.0072
2:272203	chr2:272203	rs11553746	*ACP1*	Thr95Ile	C/T	0.33	0.36	1	0.0031	0.015	-0.0023	0.004	-0.012
2:27726437	chr2:27503570	rs147073127	*GCKR*	Gln234Pro	A/C	0.0024	0.006	1	0.11	-0.016	0.11	0.073	0.14
2:27730940	chr2:27508073	rs1260326	*GCKR*	Leu446Pro	T/C	0.63	0.65	1	-0.057	0.0058	-0.058	-0.023	-0.12
2:44028013	chr2:43800874	rs11556157	*DYNC2LI1*	Ile230Leu	A/T	0.26	0.26	1	0.023	-0.0046	0.024	0.025	0.008
2:44066247	chr2:43839108	rs11887534	*ABCG8*	Asp19His	G/C	0.063	0.054	1	-0.11	0.0055	-0.11	-0.11	-0.021
2:44074431	chr2:43847292	rs4245791	*ABCG8*	Intron	C/T	0.72	0.71	1	-0.068	0.0068	-0.069	-0.072	-0.019
2:54482553	chr2:54255416	rs17189743	*TSPYL6*	Arg246Cys	G/A	0.028	0.02	1	0.014	0.04	-0.00046	0.018	-0.034
2:62871225	chr2:62644090	rs11125936	*TCEB3*	Intergenic	T/C	0.10	0.12	1	-0.026	0.011	-0.029	-0.028	-0.016
3:123065778	chr3:123346931	rs11708067	*ADCY5*	Intron	A/G	0.21	0.21	1	-0.018	-0.015	-0.012	-0.0098	-0.0011
3:12393125	chr3:12351626	rs1801282	*PPARG*	Pro12Ala	C/G	0.12	0.12	1	-0.0058	0.02	-0.013	-0.0033	-0.023
3:12628920	chr3:12587421	rs2290159	*RAF1*	Intron	G/C	0.20	0.21	1	-0.023	-0.0093	-0.019	-0.021	-0.011
3:135926622	chr3:136207780	rs645040	*RFX5*	Intergenic	G/T	0.78	0.76	1	0.0095	-0.021	0.017	0.011	0.023
3:156798732	chr3:157080943	rs900399	*SEMA4A*	Intergenic	A/G	0.38	0.33	0.999	0.0071	0.019	0.00022	0.0066	-0.014
3:185834499	chr3:186116710	rs9816226	*B4GALT3*	Intergenic	A/T	0.83	0.78	1	0.018	0.028	0.0077	0.0057	0.0091
3:32533010	chr3:32491518	rs7640978	*CMTM6*	Intron	C/T	0.092	0.079	1	-0.031	-0.0039	-0.029	-0.033	-0.0036
3:47045846	chr3:47004356	rs2305637	*NBEAL2*	Ser2054Phe	C/T	0.16	0.15	0.999	-0.0018	-0.032	0.0096	0.002	0.016
3:47282303	chr3:47240813	rs2276853	*KIF9*	Arg573Trp	G/A	0.59	0.62	1	-0.0043	-0.015	0.0011	-0.0046	0.011
3:48229366	chr3:48187876	rs146179438	*CDC25A*	Gln25His	C/A	0.02	0.012	0.998	-0.034	-0.063	-0.011	-0.0071	-0.0042
3:50093209	chr3:50055776	rs6762477	*RBM6*	Intron	G/A	0.60	0.55	1	0.01	0.025	0.00094	-0.00049	-0.0039
3:50369546	chr3:50332115	rs2073498	*RASSF1*	Ala63Ser	C/A	0.10	0.091	1	-0.025	-0.019	-0.018	-0.015	-0.0078
3:52532118	chr3:52498102	rs13326165	*STAB1*	Intron	A/G	0.81	0.80	1	0.002	-0.025	0.011	0.0033	0.02
3:52584787	chr3:52550771	rs2251219	*PBRM1*	Pro1466Pro	T/C	0.38	0.40	1	0.013	0.00069	0.012	0.016	-0.00086
3:57528503	chr3:57542776	rs9311651	*DNAH12*	Val32Ala	A/G	0.17	0.16	1	-0.0027	0.019	-0.0094	-0.0021	-0.021
3:58381287	chr3:58395560	rs13315871	*PXK*	Intron	G/A	0.085	0.067	1	-0.032	-0.0039	-0.03	-0.038	-0.0025
4:103188709	chr4:102267552	rs13107325	*SLC39A8*	Ala391Thr	C/T	0.051	0.016	0.996	-0.043	-0.074	-0.016	-0.035	0.034
4:155489608	chr4:154568456	rs6054	*FGB*	Pro206Leu	C/T	0.0038	0.0034	0.999	0.14	-0.027	0.15	0.091	0.14
4:187120211	chr4:186199057	rs13146272	*CYP4V2*	Gln259Lys	C/A	0.62	0.60	1	-0.011	0.0034	-0.012	-0.015	0.00043
4:3434885	chr4:3433158	rs6818397	*RGS12*	Intron	T/G	0.59	0.60	0.999	-0.016	0.0077	-0.018	-0.012	-0.021
4:3446091	chr4:3444364	rs3748034	*HGFAC*	Ala218Ser	G/T	0.14	0.12	0.999	0.025	-0.0068	0.027	0.019	0.035
4:3449652	chr4:3447925	rs16844401	*HGFAC*	Arg509His	G/A	0.066	0.054	0.999	0.027	0.0021	0.026	0.02	0.03
4:3473139	chr4:3471412	rs6831256	*DOK7*	Intron	A/G	0.44	0.39	0.999	0.016	-0.0078	0.018	0.013	0.021
4:69343287	chr4:68477569	rs976002	*TMPRSS11E*	Tyr303Cys	A/G	0.23	0.24	0.998	0.029	0.0085	0.025	0.023	0.015
4:88030261	chr4:87109109	rs442177	*AFF1*	Intron	G/T	0.57	0.59	1	0.013	-0.018	0.019	0.0085	0.031
4:89740128	chr4:88818977	rs13133548	*FAM13A*	Intron	G/A	0.48	0.37	1	0.00063	-0.017	0.0066	0.0037	0.014
4:100045616	chr4:99124465	rs1126673	*ADH4*	Val374Ile	C/T	0.72	0.69	1	0.0063	-0.014	0.011	0.0056	0.017
4:100504664	chr4:99583507	rs3816873	*MTTP*	Ile128Thr	T/C	0.26	0.24	1	-0.015	-0.0086	-0.012	-0.017	-0.0034
5:122855416	chr5:123519722	rs4530754	*CSNK1G3*	Intron	G/A	0.55	0.52	1	0.015	0.0053	0.013	0.017	-2.90E-03
5:131008194	chr5:131672501	rs26008	*FNIP1*	Gln620Arg	T/C	0.92	0.94	1	-0.0027	0.016	-0.0083	0.0027	-0.028
5:131744574	chr5:132408882	rs1016988	*CD101*	Intergenic	T/C	0.22	0.20	1	-0.014	-0.0034	-0.012	-0.02	0.0088
5:156398169	chr5:156971158	rs1501908	*ATP1A2*	Intergenic	G/C	0.63	0.63	1	0.047	-0.0015	0.047	0.04	0.038
5:176520243	chr5:177093242	rs351855	*FGFR4*	Gly388Arg	G/A	0.29	0.32	0.998	-0.013	0.01	-0.016	-0.018	-0.0082
5:176637576	chr5:177210575	rs28932178	*NSD1*	Ser457Pro	T/C	0.17	0.15	1	-0.0048	0.02	-0.012	-0.0089	-0.017
5:53300662	chr5:54004832	rs4311394	*ARL15*	Intron	A/G	0.27	0.24	1	0.0045	-0.014	0.0094	0.0039	0.018
5:55806751	chr5:56510924	rs459193	*ASPM*	Intergenic	A/G	0.71	0.72	1	-0.0034	-0.02	0.0038	-0.0051	0.023

5:55861786	chr5:56565959	rs9686661	*ASPM*	Intergenic	C/T	0.19	0.17	1	0.012	-0.032	0.023	0.0095	0.042
5:67714246	chr5:68418419	rs4976033	*IGFN1*	Intergenic	A/G	0.42	0.39	0.999	0.0032	-0.015	0.0084	0.0029	0.018
5:74648603	chr5:75352778	rs12654264	*HMGCR*	Intron	A/T	0.40	0.35	1	0.062	0.0061	0.059	0.066	0.0034
6:116387134	chr6:116065971	rs1999930	*SLC16A4*	Intergenic	C/T	0.25	0.28	1	-0.019	-0.01	-0.015	-0.018	0.0019
6:127452935	chr6:127131790	rs2745353	*RSPO3*	Intron	C/T	0.53	0.56	1	0.0024	-0.023	0.01	0.003	0.02
6:135411228	chr6:135090090	rs9376090	*VPS13D*	Intergenic	T/C	0.24	0.27	1	-0.03	-0.016	-0.024	-0.025	-0.003
6:135418635	chr6:135097497	rs7775698	*VPS13D*	Intergenic	C/T	0.25	0.000032	1	-0.03	-0.014	-0.024	-0.026	-0.0032
6:139839423	chr6:139518286	rs643381	*TXNIP*	Intergenic	C/A	0.50	0.51	0.998	-0.0072	0.023	-0.015	-0.006	-0.023
6:151901409	chr6:151580274	rs4870044	*C6orf97*	Intron	C/T	0.34	0.28	1	0.015	-7.30E-05	0.015	0.014	0.0062
6:153431125	chr6:153109990	rs12055786	*RGS17*	Intron	C/T	0.44	0.43	1	-0.0016	-0.021	0.0059	-0.0024	0.012
6:160543148	chr6:160122116	rs12208357	*SLC22A1*	Arg61Cys	C/T	0.062	0.042	0.999	0.05	-0.026	0.058	0.058	0.032
6:160578860	chr6:160157828	rs1564348	*SLC22A1*	Intron	T/C	0.15	0.18	1	0.045	-0.0028	0.045	0.047	0.02
6:160872151	chr6:160451119	rs1810126	*SLC22A3*	Utr3	C/T	0.35	0.39	1	0.023	-0.0082	0.025	0.025	0.014
6:160961137	chr6:160540105	rs3798220	*LPA*	Ile1892Met	T/C	0.019	0.018	1	0.11	-0.0051	0.11	0.11	0.016
6:161018174	chr6:160597142	rs7770628	*LPA*	Intron	C/T	0.57	0.55	1	-0.031	-0.012	-0.026	-0.031	0.0015
6:161089817	chr6:160668785	rs1084651	*PMVK*	Intergenic	G/A	0.19	0.16	0.999	-0.023	-0.031	-0.012	-0.017	0.011
6:16145325	chr6:16145094	rs9370867	*MYLIP*	Asn342Ser	A/G	0.53	0.49	1	-0.027	0.0063	-0.029	-0.033	-0.0015
6:25914853	chr6:25914625	rs34525648	*SLC17A2*	Ser370Leu	G/A	0.092	0.08	1	-0.0039	-0.025	0.005	0.0069	-0.0012
6:26093141	chr6:26092913	rs1800562	*HFE*	Cys102Tyr	G/A	0.049	0.066	0.999	-0.037	0.007	-0.039	-0.044	0.0081
6:30372812	chr6:30405035	rs1264562	*ZBTB17*	Intergenic	G/T	0.42	0.38	1	0.0099	-0.0016	0.01	0.015	-0.0013
6:31101674	chr6:31133897	rs3130564	*PSORS1C1*	Intron	C/T	0.16	0.17	1	-0.028	-0.0092	-0.024	-0.012	-0.033
6:31262169	chr6:31294392	rs3873379	*BLZF1*	Intergenic	T/C	0.32	0.30	1	0.013	-0.0076	0.015	0.0089	0.028
6:31353593	chr6:31385816	rs2844529	*C1orf114*	Intergenic	G/A	0.34	0.27	1	0.028	0.014	0.022	0.018	0.0094
6:31440497	chr6:31472720	rs2516440	*F5*	Intergenic	G/A	0.34	0.28	0.998	0.024	0.0068	0.021	0.018	0.0088
6:31564821	chr6:31597044	rs2844480	*F5*	Intergenic	C/T	0.20	0.18	1	0.01	-0.0049	0.012	0.0094	0.023
6:31753526	chr6:31785749	rs11751198	*VARS*	Intron	G/A	0.049	0.024	1	0.047	0.0034	0.045	0.027	0.021
6:32041621	chr6:32073844	rs6910390	*TNXB*	Thr1495Ile	G/A	0.0051	0.0075	1	0.027	-0.059	0.047	0.0037	0.1
6:32050758	chr6:32082981	rs1150754	*TNXB*	Intron	C/T	0.12	0.13	1	-0.028	-0.024	-0.019	-0.012	-0.015
6:32052444	chr6:32084667	rs61995676	*TNXB*	Arg1064His	C/T	0.02	0.041	1	0.024	-0.064	0.046	0.023	0.093
6:32671103	chr6:32703326	rs13192471	*ASTN1*	Intergenic	T/C	0.16	0.16	1	0.038	0.001	0.037	0.038	0.017
6:32681631	chr6:32713854	rs9275596	*ASTN1*	Intergenic	C/T	0.64	0.51	1	0.018	0.023	0.0095	0.01	0.0031
6:32813279	chr6:32845502	rs1057373	*TAP1*	Utr3	C/A	0.097	0.12	1	0.0089	-0.014	0.014	0.0051	0.03
6:33774394	chr6:33806617	rs2894342	*LAMC1*	Intergenic	C/A	0.23	0.25	1	0.00089	0.017	-0.0051	-0.0017	-0.01
6:34546560	chr6:34578783	rs2814982	*LAMC2*	Intergenic	C/T	0.12	0.087	0.999	-0.025	-0.028	-0.015	-0.017	-0.0016
6:34824636	chr6:34856859	rs11755393	*UHRF1BP1*	Gln454Arg	A/G	0.36	0.30	1	-0.0056	-0.027	0.0041	0.0019	0.002
6:39282806	chr6:39315030	rs11756091	*KCNK16*	Pro254His	G/T	0.51	0.48	1	0.014	-0.0014	0.014	0.011	0.0053
6:43757896	chr6:43790159	rs998584	*SH2D5*	Intergenic	C/A	0.48	0.46	0.999	0.012	-0.026	0.021	0.0081	0.034
6:43785255	chr6:43817518	rs35349911	*SH2D5*	Intergenic	C/T	0.57	0.55	0.998	0.0028	-0.017	0.0088	0.0061	0.013
6:43811762	chr6:43844025	rs9472138	*SH2D5*	Intergenic	C/T	0.27	0.27	1	-0.01	0.013	-0.014	-0.0081	-0.02
6:52453220	chr6:52588422	rs2239619	*HSPG2*	Intergenic	C/A	0.62	0.62	1	0.016	2.50E-05	0.016	0.018	0.00098
7:1083777	chr7:1044141	rs1997243	*C7orf50*	Intron	A/G	0.14	0.11	1	0.027	0.026	0.017	0.018	0.0082
7:116358044	chr7:116717990	rs38855	*MET*	Intron	A/G	0.46	0.46	1	-0.0047	0.01	-0.0081	-0.0035	-0.014
7:130433384	chr7:130748625	rs4731702	*SNX27*	Intergenic	C/T	0.46	0.55	1	-0.0056	0.033	-0.017	-0.0066	-0.027
7:150217309	chr7:150520221	rs3735080	*GIMAP7*	Arg83Cys	C/T	0.23	0.27	1	-0.0059	-0.017	0.00024	-0.0059	0.016
7:17284577	chr7:17244953	rs4410790	*NCSTN*	Intergenic	T/C	0.60	0.63	1	0.0047	-0.011	0.0085	0.0055	0.015
7:17911038	chr7:17871415	rs10282707	*SNX13*	Intron	C/T	0.42	0.35	1	-0.016	-0.027	-0.0061	-0.014	0.011
7:21607352	chr7:21567734	rs12670798	*DNAH11*	Intron	T/C	0.25	0.22	1	0.032	0.0015	0.031	0.033	0.013
7:25991826	chr7:25952206	rs4722551	*HMCN1*	Intergenic	T/C	0.16	0.14	0.999	0.027	0.0073	0.024	0.04	-0.026

7:44444122	chr7:44404523	rs11550029	*NUDCD3*	Arg235Cys	G/A	0.17	0.25	1	0.017	-0.011	0.021	0.02	0.013
7:44578500	chr7:44538901	rs35803101	*NPC1L1*	Thr499Met	G/A	0.0029	0.0007	0.961	-0.14	-0.00055	-0.14	-0.16	-0.0091
7:44578747	chr7:44539148	rs139659653	*NPC1L1*	Arg417Trp	G/A	0.0011	0.0009	0.997	-0.17	-2.00E-02	-0.16	-0.22	0.0031
7:50305863	chr7:50266267	rs4917014	*PLEKHA6*	Intergenic	T/G	0.30	0.29	1	0.0053	0.017	-0.00083	-0.0016	-0.0012
7:6449496	chr7:6409865	rs2303361	*DAGLB*	Gln535Arg	T/C	0.21	0.26	1	0.0075	0.025	-0.0015	-0.0015	0.0015
7:73012042	chr7:73597712	rs35332062	*MLXIPL*	Ala358Val	G/A	0.12	0.12	1	-0.012	0.042	-0.027	0.014	-0.12
7:80300449	chr7:80671133	rs3211938	*CD36*	Tyr326Stp	T/G	0.0047	6.4E-06	1	0.073	0.18	0.0077	0.022	-0.06
8:10683929	chr8:10826419	rs11776767	*PINX1*	Intron	G/C	0.37	0.41	1	0.0015	-0.011	0.0054	-0.0059	0.022
8:116599199	chr8:115586972	rs2293889	*TRPS1*	Intron	T/G	0.62	0.56	1	-0.0033	0.029	-0.013	-0.015	-0.0041
8:116648565	chr8:115636338	rs2737229	*TRPS1*	Intron	A/C	0.34	0.27	1	-0.024	-0.0013	-0.023	-0.022	-0.013
8:11702375	chr8:11844866	rs3947	*CTSB*	Utr3	G/A	0.23	0.25	1	0.0098	0.004	0.0082	-0.0016	0.024
8:121868551	chr8:120856311	rs4871137	*KCND3*	Intergenic	G/T	0.64	0.66	1	-0.01	-0.022	-0.002	-0.002	0.00093
8:126490972	chr8:125478730	rs2954029	*AMPD1*	Intergenic	A/T	0.45	0.48	1	-0.059	0.035	-0.07	-0.048	-0.08
8:145058986	chr8:143984818	rs11136343	*PARP10*	Leu395Pro	A/G	0.38	0.33	1	0.026	-0.0044	0.027	0.029	0.0037
8:18272881	chr8:18415371	rs1495741	*PGLYRP4*	Intergenic	G/A	0.75	0.80	1	-0.034	-0.0038	-0.032	-0.022	-0.035
8:19805708	chr8:19948197	rs1801177	*LPL*	Asp36Asn	G/A	0.016	0.012	1	0.0015	-0.2	0.072	0.0093	0.17
8:19813529	chr8:19956018	rs268	*LPL*	Asn318Ser	A/G	0.017	0.012	0.999	0.0019	-0.26	0.094	0.019	0.24
8:19816934	chr8:19959423	rs301	*LPL*	Intron	T/C	0.24	0.25	0.999	-0.0011	0.11	-0.04	0.0034	-0.12
8:55421614	chr8:54509054	rs10102164	*CRP*	Intergenic	G/A	0.20	0.24	1	0.03	-0.0048	0.031	0.031	0.015
8:59388565	chr8:58476006	rs2081687	*IGSF9*	Intergenic	T/C	0.66	0.68	1	-0.033	-0.0026	-0.031	-0.028	-0.019
8:61548494	chr8:60635935	rs626913	*IGSF8*	Intergenic	A/C	0.52	0.47	0.999	0.016	0.0025	0.015	0.012	0.0099
8:9183596	chr8:9326086	rs4841132	*NECAP2*	Intergenic	A/G	0.90	0.91	1	0.076	0.1	0.039	0.057	-0.035
9:107556776	chr9:104794495	rs146292819	*ABCA1*	Asn1800His	T/G	0.00047	0.00029	0.977	-0.69	-0.84	-0.38	-0.32	-0.29
9:107560784	chr9:104798503	rs150125857	*ABCA1*	Arg1680Gln	C/T	0.00044	0.00086	0.995	-0.1	-0.37	0.033	0.11	0.0012
9:107562804	chr9:104800523	rs2230808	*ABCA1*	Lys1587Arg	T/C	0.74	0.74	1	0.017	0.027	0.0071	0.0058	0.0096
9:107578620	chr9:104816339	rs76881554	*ABCA1*	Ser1181Phe	G/A	0.0019	0.00044	0.991	-0.075	-0.16	-0.017	0.0027	-0.052
9:107579632	chr9:104817351	rs33918808	*ABCA1*	Glu1173Asp	C/G	0.035	0.022	1	0.03	0.071	0.0042	0.0021	-0.0034
9:107586753	chr9:104824472	rs2066714	*ABCA1*	Ile884Met	T/C	0.15	0.10	1	0.032	0.043	0.016	0.015	0.0073
9:107646756	chr9:104884475	rs145183203	*ABCA1*	Pro85Leu	G/A	0.0015	0.000013	0.993	-0.13	-0.25	-0.039	-0.043	-0.022
9:107647655	chr9:104885374	rs3890182	*ABCA1*	Intron	G/A	0.12	0.11	1	-0.057	-0.075	-0.029	-0.027	-0.015
9:107664301	chr9:104902020	rs1883025	*ABCA1*	Intron	C/T	0.26	0.25	1	-0.054	-0.067	-0.029	-0.024	-0.022
9:117166246	chr9:114403966	rs2274159	*DFNB31*	Val400Ala	A/G	0.48	0.43	1	0.013	0.011	0.0088	0.009	0.0024
9:136155000	chr9:133279427	rs635634	*IL6R*	Intergenic	C/T	0.19	0.23	1	0.073	0.017	0.065	0.077	-0.011
9:139368953	chr9:136474501	rs3812594	*SEC16A*	Arg1039Cys	G/A	0.24	0.23	1	-0.012	0.0044	-0.013	-0.018	0.0065
9:15296034	chr9:15296036	rs643531	*TTC39B*	Intron	C/A	0.88	0.86	1	0.027	0.053	0.0077	0.0041	0.019
9:16887366	chr9:16887368	rs3927680	*OR6P1*	Intergenic	T/A	0.52	0.59	1	-0.015	0.01	-0.018	-0.013	-0.018
9:19376255	chr9:19376257	rs67710536	*RPS6*	Utr3	A/C	0.11	0.081	1	0.031	0.015	0.025	0.028	0.004
9:2640759	chr9:2640759	rs3780181	*VLDLR*	Intron	A/G	0.074	0.097	1	-0.03	-0.00053	-0.029	-0.037	0.006
9:28414339	chr9:28414341	rs10968576	*LINGO2*	Intron	A/G	0.29	0.31	1	-0.0045	-0.017	0.0016	-0.00089	0.0096
9:5073770	chr9:5073770	rs77375493	*JAK2*	Val617Phe	G/T	0.0011	0.00002	0.942	-0.32	-0.21	-0.24	-0.3	-0.059
10:101912064	chr10:100152307	rs2862954	*ERLIN1*	Ile291Val	T/C	0.41	0.49	0.999	0.014	0.016	0.008	0.0097	0.0064
10:113933886	chr10:112174128	rs2255141	*GPAM*	Intron	A/G	0.73	0.74	1	-0.028	-0.027	-0.018	-0.028	0.019
10:115789375	chr10:114029616	rs7076938	*PLOD1*	Intergenic	C/T	0.73	0.77	1	-0.00041	0.019	-0.0071	-0.00097	-0.01
10:118397971	chr10:116638460	rs10885997	*PNLIPRP2*	Gln387Arg	A/G	0.41	0.42	1	0.0096	-0.0081	0.012	0.015	0.0017
10:118575606	chr10:116816095	rs740363	*VPS13D*	Intergenic	G/A	0.45	0.47	1	0.0065	0.014	0.0014	0.0033	-0.0055
10:124610027	chr10:122850511	rs1891110	*FAM24B*	Pro2Leu	G/A	0.55	0.55	1	0.019	0.0041	0.017	0.021	0.0031
10:17260290	chr10:17218291	rs10904908	*PGLYRP4*	Intergenic	A/G	0.45	0.38	0.999	0.017	0.012	0.012	0.012	0.0073
10:46013277	chr10:45517829	rs970548	*MARCH8*	Intron	A/C	0.24	0.22	1	0.02	0.026	0.01	0.011	0.0025

10:52573772	chr10:50814012	rs41274050	*A1CF*	Gly398Ser	C/T	0.0071	0.0024	0.99	0.08	-0.038	0.092	0.057	0.1
10:65121565	chr10:63361805	rs12355784	*JMJD1C*	Intron	C/A	0.47	0.51	1	0.01	0.012	0.0055	0.018	-0.03
10:74637326	chr10:72877568	rs7901016	*CCDC109A*	Intron	T/C	0.069	0.049	1	-0.0063	-0.022	0.0016	-0.018	0.042
10:94839642	chr10:93079885	rs2068888	*C1orf106*	Intergenic	G/A	0.47	0.42	0.999	-0.018	0.023	-0.026	-0.016	-0.032
11:10669228	chr11:10647681	rs7940646	*MRVI1*	Intron	T/C	0.72	0.64	1	0.00094	-0.0077	0.0036	-0.0015	0.016
11:109995944	chr11:110125219	rs746463	*ZC3H12C*	Intron	C/T	0.69	0.71	1	-0.0027	-0.017	0.0034	0.00073	0.0099
11:116586283	chr11:116715567	rs7350481	*C1orf158*	Intergenic	T/C	0.91	0.92	1	-0.082	0.098	-0.11	-0.028	-0.23
11:116661488	chr11:116790772	rs3135507	*APOA5*	Val153Met	C/T	0.04	0.016	1	0.033	-0.031	0.043	0.018	0.085
11:116662407	chr11:116791691	rs3135506	*APOA5*	Ser19Trp	G/C	0.059	0.053	0.999	0.088	-0.12	0.13	0.048	0.24
11:116701354	chr11:116830638	rs138326449	*APOC3*	Essential_Splice_Site	G/A	0.0018	0.0021	0.992	-0.09	0.76	-0.36	-0.13	-1.14
11:116707044	chr11:116836328	rs138407155	*APOA1*	Phe95Tyr	A/T	0.00065	0.0006	1	-0.038	-0.45	0.12	0.0058	0.23
11:116707739	chr11:116837023	rs199759119	*APOA1*	Ser60Ala	A/C	0.00045	0.000021	0.93	-0.25	-0.42	-0.096	-0.11	-0.097
11:116896155	chr11:117025439	rs10892063	*SIK3*	Intron	A/C	0.58	0.63	1	-0.036	-0.018	-0.029	-0.0063	-0.058
11:117299414	chr11:117428698	rs145244816	*DSCAML1*	Arg1991Gln	C/T	0.00024	3.2E-06	0.994	0.027	0.45	-0.13	0.11	-0.61
11:122522375	chr11:122651667	rs7941030	*IL6R*	Intergenic	T/C	0.38	0.41	1	0.019	0.024	0.01	0.014	-0.00099
11:126160826	chr11:126290931	rs8177399	*TIRAP*	Arg13Trp	C/T	0.018	0.016	1	0.042	-0.05	0.059	0.061	0.022
11:126243952	chr11:126374057	rs11220462	*ST3GAL4*	Intron	G/A	0.15	0.10	1	0.029	-0.021	0.036	0.043	0.0057
11:14852490	chr11:14830944	rs1037378	*PDE3B*	Intron	G/A	0.54	0.47	1	-0.0019	-0.015	0.0035	-0.0018	0.0076
11:18645843	chr11:18624296	rs11024739	*SPTY2D1*	Intron	C/A	0.68	0.68	1	0.025	0.0043	0.023	0.025	0.0088
11:2936952	chr11:2915722	rs16928809	*SLC22A18*	Intron	G/A	0.088	0.093	1	-0.021	-0.029	-0.01	-0.0086	-0.00088
11:47270255	chr11:47248704	rs2167079	*ACP2*	Arg29Gln	C/T	0.35	0.35	1	0.0061	0.041	-0.0085	-0.001	-0.02
11:47290147	chr11:47268596	rs61731956	*NR1H3*	Arg370Gln	G/A	0.00029	0.000056	0.924	0.03	0.47	-0.14	-0.16	-0.31
11:47663049	chr11:47641497	rs10838738	*MTCH2*	Intron	A/G	0.33	0.35	1	-0.016	-0.032	-0.0043	-0.0046	0.0076
11:61571478	chr11:61804006	rs174550	*FADS1*	Intron	T/C	0.31	0.38	1	-0.047	-0.042	-0.031	-0.053	0.052
11:64031241	chr11:64263769	rs35169799	*PLCB3*	Ser778Leu	C/T	0.06	0.046	0.999	0.0043	-0.039	0.018	0.0058	0.038
11:65391317	chr11:65623846	rs12801636	*PCNXL3*	Intron	G/A	0.23	0.24	1	0.0032	0.012	-0.0011	0.0076	-0.018
11:66297363	chr11:66529892	rs3816492	*BBS1*	Leu472Leu	C/T	0.23	0.23	1	-0.018	-0.00035	-0.017	-0.018	-0.0039
11:68703959	chr11:68936491	rs622082	*IGHMBP2*	Thr671Ala	A/G	0.31	0.33	1	-0.00086	-0.017	0.0052	0.00035	0.014
11:75455021	chr11:75743976	rs499974	*ASAP3*	Intergenic	C/A	0.18	0.18	1	-0.014	-0.026	-0.0045	-0.0021	-0.0089
12:107174646	chr12:106780868	rs10861661	*RIC8B*	Intron	A/C	0.23	0.18	1	0.0023	-0.017	0.0083	0.00086	0.019
12:109661672	chr12:109223867	rs149793040	*ACACB*	Tyr1282Cys	A/G	0.00091	0.000051	0.952	-0.035	0.23	-0.12	-0.084	-0.22
12:109937534	chr12:109499729	rs7298565	*UBE3B*	Arg346Gln	G/A	0.53	0.51	1	0.018	0.03	0.007	0.0059	0.0027
12:111884608	chr12:111446804	rs3184504	*SH2B3*	Trp262Arg	T/C	0.57	0.61	1	0.033	0.027	0.023	0.027	-0.011
12:121416650	chr12:120978847	rs1169288	*HNF1A*	Ile27Leu	A/C	0.33	0.30	0.999	0.037	0.014	0.031	0.037	0.0023
12:123200768	chr12:122716221	rs1798192	*GPR109B*	Thr173Pro	T/G	0.56	0.50	1	0.0031	0.022	-0.0048	-0.0023	-0.01
12:123345509	chr12:122860962	rs34149579	*HIP1R*	Cys938Phe	G/T	0.042	0.025	0.995	-0.015	-0.039	-0.00088	-0.004	0.014
12:124427306	chr12:123942759	rs11057401	*CCDC92*	Ser70Cys	T/A	0.30	0.31	1	-0.0023	0.033	-0.014	-0.0059	-0.028
12:125261593	chr12:124777047	rs838880	*IL6R*	Intergenic	C/T	0.63	0.65	0.998	-0.013	-0.029	-0.0025	-0.0014	-0.0013
12:125298855	chr12:124814309	rs187831231	*SCARB1*	Thr175Ala	T/C	0.00016	0.000019	1	0.19	0.61	-0.03	0.014	-0.028
12:125299542	chr12:124814996	rs5891	*SCARB1*	Val135Ile	C/T	0.013	0.012	0.997	0.022	0.066	-0.0018	0.0041	-0.0034
12:125307053	chr12:124822507	rs11057830	*SCARB1*	Intron	G/A	0.15	0.12	0.998	0.024	-0.011	0.027	0.023	0.015
12:20473758	chr12:20320824	rs7134375	*FCRL2*	Intergenic	C/A	0.41	0.45	0.999	0.0027	0.021	-0.0048	0.0033	-0.014
12:21331549	chr12:21178615	rs4149056	*SLCO1B1*	Val174Ala	T/C	0.14	0.16	1	0.0029	0.0041	0.0014	-0.0082	0.029
12:57809456	chr12:57415673	rs1106766	*CFH*	Intergenic	C/T	0.21	0.31	1	-0.011	0.032	-0.022	-0.013	-0.03
12:72179446	chr12:71785666	rs61754230	*RAB21*	Ser224Phe	C/T	0.015	0.016	0.992	0.04	-0.01	0.043	0.057	-0.0029
12:7691134	chr12:7538538	rs7136716	*AVPR1B*	Intergenic	A/G	0.15	0.13	1	-0.00012	0.021	-0.0076	-0.0061	-0.0079
12:9082581	chr12:8929985	rs4883201	*PHC1*	Intron	A/G	0.12	0.12	1	-0.029	-0.03	-0.018	-0.022	0.0016
13:114527838	chr13:113824865	rs7400722	*GAS6*	Intron	G/A	0.42	0.41	0.999	0.016	0.00055	0.015	0.011	0.015

13:32953388	chr13:32379251	rs4942486	*BRCA2*	Intron	T/C	0.52	0.54	1	-0.019	0.0094	-0.022	-0.022	-0.0085
13:45970147	chr13:45396012	rs138358301	*SLC25A30*	Phe280Leu	A/G	0.0036	0.0017	0.993	0.048	-0.019	0.054	0.00079	0.15
13:51221618	chr13:50647482	rs797486	*ADAR*	Intergenic	C/A	0.87	0.85	1	0.0036	-0.017	0.0095	0.0044	0.02
14:105277209	chr14:104810872	rs4983559	*CYB561D1*	Intergenic	G/A	0.57	0.59	0.992	-0.0072	-0.027	0.0025	-0.0023	0.0071
14:24883887	chr14:24414681	rs8017377	*NYNRIN*	Ala978Thr	G/A	0.42	0.49	0.999	0.022	0.0027	0.021	0.023	0.0037
14:64235556	chr14:63768838	rs7157785	*NPR1*	Intergenic	G/T	0.18	0.15	0.999	0.015	-0.013	0.019	0.011	0.023
14:65914867	chr14:65448149	rs10483776	*FUT8*	Intron	A/G	0.16	0.13	1	-0.0043	-0.02	0.0029	-0.0018	0.013
14:71096344	chr14:70629627	rs9646133	*FLAD1*	Intergenic	G/T	0.33	0.30	0.998	-0.013	0.0089	-0.016	-0.019	-0.00043
14:74250126	chr14:73783423	rs13379043	*C14orf43*	Intron	T/C	0.30	0.24	0.999	-0.01	0.017	-0.016	-0.018	-0.0086
14:75322794	chr14:74856091	rs8014204	*PROX2*	Intron	G/A	0.57	0.48	1	0.015	0.0082	0.012	0.012	-0.0027
14:94844947	chr14:94378610	rs28929474	*SERPINA1*	Glu366Lys	C/T	0.015	0.008	0.999	0.078	-0.017	0.082	0.081	0.021
15:40751555	chr15:40459356	rs3803357	*BAHD1*	Gln298Lys	C/A	0.54	0.50	1	-0.0012	0.0099	-0.0047	0.00042	-0.017
15:43820717	chr15:43528519	rs55707100	*MAP1A*	Pro2349Leu	C/T	0.024	0.027	1	0.025	-0.1	0.06	0.0074	0.13
15:58678512	chr15:58386313	rs10468017	*SNX27*	Intergenic	C/T	0.27	0.30	1	0.048	0.11	0.008	0.0033	0.034
15:58723675	chr15:58431476	rs1800588	*SNX27*	Intergenic	C/T	0.24	0.19	1	0.056	0.12	0.012	0.00096	0.047
15:63414083	chr15:63121884	rs34317102	*LACTB*	Met5Leu	A/C	0.76	0.71	1	-4.00E-04	0.019	-0.0071	0.0015	-0.015
16:15129970	chr16:15036113	rs7200543	*PDXDC1*	Leu736Leu	A/G	0.30	0.26	1	-0.0016	-0.019	0.0052	-0.00032	0.024
16:30936081	chr16:30924760	rs35675346	*FBXL19*	Glu10Lys	G/A	0.25	0.22	1	0.016	-9.30E-05	0.016	0.012	0.0089
16:4755108	chr16:4705107	rs78074706	*ANKS3*	Arg286Trp	G/A	0.022	0.02	1	-0.0037	-0.053	0.015	0.0084	0.027
16:53800954	chr16:53767042	rs1421085	*FTO*	Intron	T/C	0.39	0.41	1	0.00037	-0.022	0.0082	0.0023	0.019
16:56904587	chr16:56870675	rs1529927	*SLC12A3*	Ala263Gly	C/G	0.97	0.94	0.999	0.018	0.094	-0.016	-0.017	-0.017
16:56985139	chr16:56951227	rs9989419	*OR10K2*	Intergenic	A/G	0.60	0.60	0.997	0.027	0.13	-0.02	-0.014	-0.019
16:56989590	chr16:56955678	rs247616	*OR10K2*	Intergenic	C/T	0.31	0.32	0.998	0.044	0.24	-0.042	-0.032	-0.036
16:56995935	chr16:56962023	rs34065661	*CETP*	Ala15Gly	C/G	0.0048	6.4E-06	1	0.093	0.43	-0.061	-0.055	-0.077
16:57002732	chr16:56968820	rs9939224	*CETP*	Intron	T/G	0.79	0.77	0.999	0.04	0.2	-0.032	-0.023	-0.034
16:57015091	chr16:56981179	rs5880	*CETP*	Ala390Pro	G/C	0.048	0.06	0.999	-0.06	-0.26	0.033	0.017	0.039
16:57016092	chr16:56982180	rs5882	*CETP*	Val422Ile	G/A	0.65	0.67	0.999	-0.025	-0.092	0.0081	0.0055	0.0068
16:57017292	chr16:56983380	rs2303790	*CETP*	Asp459Gly	A/G	0.00077	0.000017	0.916	0.035	0.37	-0.097	-0.051	-0.16
16:67928042	chr16:67894139	rs16942887	*PSKH1*	Intron	G/A	0.13	0.10	1	0.024	0.08	-0.0048	0.0012	-0.016
16:67976320	chr16:67942417	rs4986970	*LCAT*	Ser232Thr	A/T	0.025	0.028	0.997	-0.026	-0.091	0.0068	0.0052	0.014
16:72108093	chr16:72074194	rs2000999	*HPR*	Intron	G/A	0.20	0.15	1	0.058	-0.007	0.059	0.063	0.021
16:72162966	chr16:72129067	rs34832584	*PMFBP1*	Thr650Lys	G/T	0.16	0.13	1	0.02	0.003	0.019	0.02	0.0026
16:81534790	chr16:81501185	rs2925979	*CMIP*	Intron	T/C	0.70	0.70	1	0.003	0.041	-0.012	-0.003	-0.029
16:88580796	chr16:88514388	rs147032017	*ZFPM1*	Asp91Asp	C/T	0.0064	0.00069	0.998	-0.083	-0.04	-0.067	-0.091	0.012
17:17409560	chr17:17506246	rs7946	*PEMT*	Val212Met	C/T	0.67	0.70	1	-1.10E-02	0.0046	-0.012	-0.0072	-0.016
17:26694861	chr17:28367840	rs704	*VTN*	Thr400Met	G/A	0.49	0.50	1	0.015	-0.01	0.018	0.021	-0.0063
17:29629326	chr17:31302308	rs11080150	*NF1*	Intron	A/G	0.33	0.30	1	-0.02	-0.0023	-0.019	-1.90E-02	-0.0025
17:37813856	chr17:39657603	rs11869286	*STARD3*	Intron	G/C	0.63	0.66	1	0.013	3.00E-02	0.0021	0.0029	-0.0025
17:40257163	chr17:42105145	rs2074158	*DHX58*	Gln425Arg	T/C	0.19	0.16	1	-0.0075	-0.02	-0.00026	0.00084	-0.0027
17:41926126	chr17:43848758	rs72836561	*CD300LG*	Arg82Cys	C/T	0.028	0.033	0.999	-0.039	-0.17	0.022	-0.027	0.13
17:41931375	chr17:43854007	rs12453522	*CD300LG*	Thr194Ala	A/G	0.18	0.14	1	0.0073	-0.014	0.012	-0.00051	0.021
17:45732774	chr17:47655408	rs11871606	*KPNB1*	Intron	C/A	0.5	0.41	1	-0.024	-0.013	-0.019	-0.027	0.016
17:4692559	chr17:4789264	rs2304969	*GLTPD2*	Val49Phe	G/T	0.18	0.14	0.998	-0.02	-0.0024	-0.019	-0.014	-0.016
17:46022065	chr17:47944699	rs17679445	*PNPO*	Arg116Gln	G/A	0.063	0.07	1	0.017	0.03	0.006	0.018	-0.027
17:64210580	chr17:66214462	rs1801689	*APOH*	Cys325Gly	A/C	0.027	0.01	0.992	0.069	-0.019	0.074	0.1	-0.047
17:65903006	chr17:67906890	rs12947658	*BPTF*	Intron	A/G	0.66	0.69	1	-0.014	0.012	-0.018	-0.011	-0.02
17:67081278	chr17:69085137	rs77542162	*ABCA6*	Cys1359Arg	A/G	0.015	0.025	0.999	0.15	-0.022	0.15	0.19	-0.037
17:7091650	chr17:7188331	rs314253	*CRB1*	Intergenic	T/C	0.35	0.34	0.997	-0.02	-8.70E-05	-0.02	-0.02	-0.0056

17:73782191	chr17:75786110	rs2125345	*UNK*	Intron	T/C	0.31	0.28	1	-0.018	0.0075	-0.02	-0.024	-0.011
17:7484101	chr17:7580783	rs9901673	*CD68*	Gln254Lys	C/A	0.16	0.18	1	-0.021	-0.011	-0.017	-0.017	-0.011
17:76395430	chr17:78399349	rs2292642	*PGS1*	Gly172Gly	C/T	0.61	0.60	1	0.013	0.028	0.0028	0.013	-0.02
17:8216468	chr17:8313150	rs871841	*ARHGEF15*	Leu277Pro	T/C	0.52	0.46	0.999	0.015	0.0029	0.014	0.014	0.007
18:47109955	chr18:49583585	rs77960347	*LIPG*	Asn396Ser	A/G	0.011	0.012	1	0.18	0.26	0.084	0.083	0.051
18:47113165	chr18:49586795	rs117623631	*LIPG*	Arg476Trp	C/T	0.0019	0.0008	0.984	0.28	0.43	0.12	0.078	0.1
18:47160953	chr18:49634583	rs7241918	*MTHFR*	Intergenic	G/T	0.85	0.79	1	0.048	0.077	0.02	0.02	0.0064
18:56109859	chr18:58442627	rs8099014	*VPS13D*	Intergenic	C/A	0.71	0.72	1	-0.0029	0.015	-0.0081	-0.0041	-0.0059
18:57882787	chr18:60215554	rs489693	*DVL1*	Intergenic	C/A	0.32	0.33	1	-0.00043	-0.019	0.0063	0.0022	0.015
19:10229580	chr19:10118904	rs34658893	*EIF3G*	Thr69Thr	T/C	0.0054	0.0037	0.997	-0.09	-0.023	-0.08	-0.09	0.0016
19:11202306	chr19:11091630	rs6511720	*LDLR*	Intron	G/T	0.11	0.087	0.998	-0.18	0.024	-0.18	-0.21	-0.0064
19:11222300	chr19:11111624	rs11669576	*LDLR*	Ala264Thr	G/A	0.052	0.042	0.999	0.05	-0.00038	0.049	0.058	0.0027
19:11257018	chr19:11146342	rs11557092	*C1orf127*	Intergenic	T/C	0.69	0.74	1	0.019	-0.0097	0.022	0.024	0.008
19:11275139	chr19:11164463	rs7188	*KANK2*	Utr3	A/C	0.32	0.28	1	0.042	-0.012	0.045	0.048	0.011
19:11347493	chr19:11236817	rs737337	*DOCK6*	Thr713Thr	T/C	0.12	0.086	1	-0.036	-0.058	-0.015	-0.016	0.0021
19:18304700	chr19:18193890	rs874628	*MPV17L2*	Met72Val	A/G	0.26	0.24	1	0.015	0.00053	0.014	0.015	0.0054
19:19379549	chr19:19268740	rs58542926	*TM6SF2*	Glu167Lys	C/T	0.074	0.076	1	-0.13	0.015	-0.13	-0.1	-0.12
19:32917455	chr19:32426549	rs2111504	*DPY19L3*	Intron	T/A	0.17	0.15	1	-0.0015	0.02	-0.0085	-0.0075	-0.012
19:33899065	chr19:33408159	rs731839	*PEPD*	Intron	G/A	0.63	0.68	1	0.004	0.017	-0.0021	0.0012	-0.015
19:45316588	chr19:44813331	rs28399654	*BCAM*	Val196Ile	G/A	0.027	0.029	0.997	-0.17	0.051	-0.18	-0.27	0.073
19:45410002	chr19:44906745	rs769449	*APOE*	Intron	G/A	0.11	0.14	1	0.16	-0.098	0.19	0.19	0.066
19:45412079	chr19:44908822	rs7412	*APOE*	Arg176Cys	C/T	0.075	0.058	1	-0.37	0.098	-0.4	-0.54	0.12
19:45414451	chr19:44911194	rs439401	*ATP13A2*	Intergenic	T/C	0.63	0.60	1	0.034	-0.022	0.041	0.013	0.075
19:45448465	chr19:44945208	rs5167	*APOC4*	Leu96Arg	T/G	0.37	0.32	0.999	0.013	0.037	-0.00037	-0.0033	0.011
19:46181392	chr19:45678134	rs1800437	*GIPR*	Glu354Gln	G/C	0.20	0.22	0.999	-0.019	-1.20E-02	-0.014	-0.019	0.0055
19:46307406	chr19:45804148	rs8111071	*RSPH6A*	Intron	A/G	0.075	0.056	1	-0.021	-0.029	-0.01	-0.014	0.0024
19:47589895	chr19:47086638	rs2303108	*ZC3H4*	Intron	T/C	0.67	0.69	1	0.0024	-0.015	0.0077	0.0067	0.011
19:49206417	chr19:48703160	rs492602	*FUT2*	Ala69Ala	A/G	0.45	0.59	0.999	0.03	-0.0074	0.032	0.028	0.018
19:50000009	chr19:49496752	rs2280401	*RPS11*	Intron	G/A	0.15	0.20	0.999	-0.022	-0.0064	-0.019	-0.016	-0.02
19:50038017	chr19:49534760	rs10419198	*RCN3*	Intron	C/T	0.30	0.20	0.999	0.02	0.0058	0.018	0.013	0.012
19:52324216	chr19:51820963	rs17695224	*FPR3*	Intron	G/A	0.25	0.27	1	-0.0065	-0.028	0.0035	-0.0018	0.0075
19:54759361	chr19:54255498	rs12975366	*LILRB5*	Asp147Gly	T/C	0.38	0.40	0.999	-0.013	-0.029	-0.0025	-0.0056	0.002
19:54792761	chr19:54288907	rs386000	*SLC45A3*	Intergenic	G/C	0.22	0.25	0.999	0.013	0.054	-0.0064	-0.00024	-0.0082
19:7184762	chr19:7184751	rs891088	*INSR*	Intron	A/G	0.28	0.24	1	-0.00064	0.015	-0.0059	0.00066	-0.017
19:7224431	chr19:7224420	rs7248104	*INSR*	Intron	G/A	0.40	0.43	1	-0.0038	0.012	-0.008	-0.0023	-0.02
19:7831628	chr19:7766742	rs2277998	*CLEC4M*	Asp263Asn	G/A	0.29	0.28	0.999	0.0094	0.016	0.0035	0.0063	-0.0048
19:8429323	chr19:8364439	rs116843064	*ANGPTL4*	Glu40Lys	G/A	0.02	0.024	0.997	-0.003	0.24	-0.088	-0.0038	-0.27
19:8433196	chr19:8368312	rs7255436	*ANGPTL4*	Intron	C/A	0.52	0.56	1	0.011	0.029	0.0005	0.0076	-0.019
20:12962718	chr20:12982070	rs364585	*DBT*	Intergenic	A/G	0.64	0.54	1	0.016	0.0072	0.013	0.019	-0.012
20:17596155	chr20:17615510	rs1132274	*RRBP1*	Arg891Leu	C/A	0.17	0.16	1	0.0079	-0.02	0.015	0.019	0.0034
20:33488771	chr20:34900968	rs6120757	*ACSS2*	Intron	C/T	0.62	0.58	1	-0.0039	-0.017	0.0022	0.00025	0.005
20:34116282	chr20:35528453	rs7261862	*C20orf173*	Lys194Glu	T/C	0.18	0.11	1	-0.024	-0.0039	-0.022	-0.024	-0.013
20:39154095	chr20:40525455	rs6016373	*SLC27A3*	Intergenic	A/G	0.39	0.38	1	-0.027	0.0037	-0.028	-0.024	-0.0086
20:39672618	chr20:41043978	rs6029526	*TOP1*	Intron	T/A	0.51	0.45	1	0.038	0.0038	0.036	0.035	0.013
20:43042364	chr20:44413724	rs1800961	*HNF4A*	Thr117Ile	C/T	0.031	0.045	0.999	-0.092	-0.14	-0.04	-0.054	0.0043
20:44576502	chr20:45947863	rs7679	*PCIF1*	Utr3	T/C	0.17	0.22	1	0.0063	-0.056	0.026	0.011	0.053
20:56140439	chr20:57565383	rs41302559	*PCK1*	Arg483Gln	G/A	0.0021	0.0085	0.999	-3.20E-02	0.058	-0.052	-0.0067	-0.15
20:62349586	chr20:63718234	rs4809330	*ZGPAT*	Intron	A/G	0.70	0.58	1	-0.012	-0.0089	-0.0086	-0.015	0.0037

20:62695931	chr20:64064578	rs6062343	*TCEA2*	Intron	G/A	0.43	0.42	1	-0.012	0.013	-0.016	-0.014	-0.018
21:46875817	chr21:45455903	rs200559406	*COL18A1*	Val125Ile	G/A	0.00087	0.0016	0.974	0.083	-0.22	0.16	0.072	0.3
22:17625915	chr22:17145025	rs35665085	*CECR5*	Thr149Met	G/A	0.05	0.078	0.996	0.022	0.0039	0.02	0.0092	0.032
22:21932068	chr22:21577779	rs181362	*UBE2L3*	Intron	C/T	0.25	0.20	1	-0.02	-0.028	-0.0097	-0.0073	-0.013
22:29451671	chr22:29055683	rs4823006	*ZNRF3*	Utr3	A/G	0.45	0.42	1	-0.003	0.014	-0.0079	-0.005	-0.012
22:30776095	chr22:30380106	rs5749088	*RNF215*	Ala322Thr	C/T	0.21	0.21	1	-0.018	-0.0071	-0.015	-0.013	-0.0031
22:30888494	chr22:30492507	rs17738527	*SEC14L4*	Glu211Lys	C/T	0.20	0.21	1	-0.017	-0.018	-0.01	-0.011	-8.40E-05
22:35711098	chr22:35315105	rs138777	*TOM1*	Intron	A/G	0.62	0.58	1	-0.019	-0.0026	-0.018	-0.015	-0.0077
22:38569006	chr22:38172999	rs738322	*PLA2G6*	Intron	A/G	0.49	0.45	1	-0.00097	0.02	-0.008	-0.0016	-0.02
22:38898051	chr22:38502046	rs138457	*DDX17*	Intron	T/C	0.62	0.65	1	0.00043	0.017	-0.0056	0.00016	-0.014
22:41170063	chr22:40774059	rs2076674	*SLC25A17*	Intron	T/C	0.35	0.32	1	0.014	0.0019	0.013	0.018	-0.002
22:44324727	chr22:43928847	rs738409	*PNPLA3*	Ile149Met	C/G	0.23	0.23	1	-0.029	-0.012	-0.024	-0.018	-0.018
22:45996298	chr22:45600418	rs13268	*FBLN1*	His695Arg	A/G	0.022	0.027	0.997	-0.043	-0.0049	-0.04	-0.053	-0.00064
22:46627603	chr22:46231706	rs4253772	*PPARA*	Intron	C/T	0.098	0.09	1	0.025	0.0048	0.023	0.018	0.018
22:46627780	chr22:46231883	rs1042311	*PPARA*	Ala268Val	C/T	0.005	0.0017	0.987	0.12	-0.0016	0.12	0.12	0.068
67 variants not used for calculation of the genetic scores due to pairwise $r^2 > 0.2$ with a variant above													
1:109818530	chr1:109275908	rs646776	*CELSR2*	Intergenic	C/T	0.77	0.78	1	0.13	-0.043	0.14	0.16	0.013
1:150958836	chr1:150986360	rs267733	*ANXA9*	Asp166Gly	A/G	0.14	0.15	1	-0.019	0.021	-0.026	-0.025	-0.0054
1:219700519	chr1:219527177	rs2785980	*LYPLAL1*	Intergenic	T/C	0.31	0.35	1	-0.0082	0.016	-0.014	-0.0079	-0.016
1:230304988	chr1:230169242	rs10489615	*GALNT2*	Intron	A/G	0.57	0.62	0.999	-0.0011	0.046	-0.017	-0.0021	-0.039
1:39797055	chr1:39331383	rs16826069	*MACF1*	Ile39Val	A/G	0.21	0.23	1	-0.0059	-0.036	0.007	-0.00044	0.025
2:118835841	chr2:118078265	rs10490626	*MTOR*	Intergenic	G/A	0.069	0.069	1	-0.047	0.0035	-0.047	-0.053	-0.011
2:136555659	chr2:135798089	rs2322659	*LCT*	Asn1639Ser	T/C	0.71	0.86	1	-0.022	-0.019	-0.015	-0.011	0.0046
2:165540800	chr2:164684290	rs12328675	*FLG*	Intergenic	T/C	0.12	0.15	1	2.80E-05	0.05	-0.018	-0.0037	-0.045
2:27550967	chr2:27328100	rs1049817	*GTF3C2*	Pro783Pro	A/G	0.41	0.42	1	-0.022	0.0032	-0.023	-0.0056	-0.056
2:27748624	chr2:27525757	rs1260333	*PTPN14*	Intergenic	A/G	0.57	0.57	1	-0.045	0.0096	-0.047	-0.02	-0.095
5:156390297	chr5:156963286	rs6882076	*TIMD4*	Upstream	T/C	0.63	0.63	1	0.044	-0.0016	0.044	0.039	0.038
5:74651084	chr5:75355259	rs3846662	*HMGCR*	Intron	A/G	0.48	0.39	0.999	0.062	0.006	0.059	0.065	0.0038
6:116325142	chr6:116003979	rs3756772	*FRK*	Gly122Arg	C/T	0.43	0.39	1	0.016	0.014	0.011	0.014	0.0015
6:160840252	chr6:160419220	rs7758229	*SLC22A3*	Intron	G/T	0.31	0.35	1	0.015	-0.0097	0.018	0.016	0.018
6:16127407	chr6:16127176	rs3757354	*TRIM46*	Intergenic	C/T	0.24	0.25	1	-0.031	0.0031	-0.031	-0.033	-0.003
6:30603519	chr6:30635742	rs9262130	*ATAT1*	Intron	G/A	0.091	0.084	1	-0.029	-0.031	-0.017	-0.0089	-0.02
6:31379109	chr6:31411332	rs1051794	*MICA*	Glu196Lys	G/A	0.3	0.26	0.999	0.024	0.0089	0.02	0.021	0.003
6:31417191	chr6:31449414	rs3128982	*F5*	Intergenic	A/G	0.28	0.29	0.999	-0.013	0.00015	-0.013	-0.00038	-0.027
6:31440082	chr6:31472305	rs1055569	*HCG26*	Exon	C/T	0.34	0.28	0.998	0.024	0.0063	0.021	0.019	0.009
6:31496949	chr6:31529172	rs78957773	*MCCD1*	Thr53Met	C/T	0.021	0.019	1	0.055	-0.013	0.058	0.03	0.052
6:31600106	chr6:31632329	rs41273264	*PRRC2A*	Ser1219Tyr	C/A	0.019	0.04	1	0.023	-0.07	0.047	0.025	0.096
6:32261252	chr6:32293475	rs7775397	*C6orf10*	Glu317Ala	T/G	0.086	0.083	1	-0.037	-0.017	-0.03	-0.017	-0.036
6:32586854	chr6:32619077	rs9271366	*PADI4*	Intergenic	G/A	0.85	0.77	1	0.024	0.0061	0.021	0.018	0.024
6:32609105	chr6:32641328	rs1129740	*HLA-DQA1*	Cys34Tyr	G/A	0.58	0.48	1	-0.018	0.016	-0.023	-0.019	-0.02
6:43758873	chr6:43791136	rs6905288	*SH2D5*	Intergenic	G/A	0.59	0.53	0.999	0.014	-0.024	0.022	0.0096	0.033
7:1097183	chr7:1057547	rs11761941	*GPR146*	Gly11Glu	G/A	0.15	0.11	1	0.028	0.028	0.017	0.016	0.0083
7:130466854	chr7:130782095	rs972283	*SNX27*	Intergenic	A/G	0.55	0.44	0.998	0.006	-0.031	0.017	0.0065	0.027
7:72856269	chr7:73441939	rs2240466	*BAZ1B*	Intron	G/A	0.11	0.11	1	-0.0092	0.043	-0.024	0.014	-0.12
7:72856430	chr7:73442100	rs1178979	*BAZ1B*	Intron	T/C	0.18	0.18	1	-0.0081	0.035	-0.02	0.012	-0.096
8:126493746	chr8:125481504	rs2954033	*AMPD1*	Intergenic	A/G	0.72	0.67	1	-0.046	0.047	-0.062	-0.035	-0.082
8:126507389	chr8:125495147	rs2954038	*AMPD1*	Intergenic	C/A	0.72	0.67	0.999	-0.052	0.048	-0.068	-0.042	-0.087
8:18272438	chr8:18414928	rs4921914	*PGLYRP4*	Intergenic	C/T	0.75	0.80	1	-0.034	-0.0041	-0.032	-0.022	-0.035

8:19819439	chr8:19961928	rs326	*LPL*	Intron	A/G	0.30	0.29	1	-0.0014	0.11	-0.04	0.00049	-0.11
8:19819724	chr8:19962213	rs328	*LPL*	Ser474Stp	C/G	0.098	0.085	1	0.0038	0.16	-0.053	0.013	-0.18
8:19824492	chr8:19966981	rs13702	*LPL*	Utr3	T/C	0.29	0.28	1	-0.0011	0.11	-0.04	0.0011	-0.12
8:19830921	chr8:19973410	rs10096633	*GATAD2B*	Intergenic	C/T	0.14	0.098	1	0.0041	0.14	-0.046	0.0071	-0.15
9:107647220	chr9:104884939	rs4149268	*ABCA1*	Intron	C/T	0.38	0.33	1	-0.031	-0.034	-0.018	-0.015	-0.014
9:136137065	chr9:133261662	NA	*ABO*	Intron	A/G	0.37	0.27	1	0.044	0.015	0.038	0.043	-0.002
10:113940329	chr10:112180571	rs2792751	*GPAM*	Ile43Val	T/C	0.73	0.74	1	-0.028	-0.027	-0.018	-0.028	0.02
10:64927823	chr10:63168063	rs1935	*JMJD1C*	Glu2299Asp	C/G	0.48	0.52	1	0.011	0.012	0.0065	0.018	-0.029
11:116633862	chr11:116763146	rs11820589	*BUD13*	Pro148Leu	G/A	0.066	0.06	1	0.072	-0.087	0.1	0.034	0.19
11:116639104	chr11:116768388	rs10790162	*BUD13*	Intron	A/G	0.92	0.92	1	-0.09	0.11	-0.13	-0.033	-0.26
11:116648917	chr11:116778201	rs964184	*PRAMEF2*	Intergenic	G/C	0.85	0.86	1	-0.087	0.11	-0.12	-0.037	-0.25
11:116722041	chr11:116851325	rs10047462	*SIK3*	Intron	G/T	0.86	0.86	1	-0.044	0.023	-0.051	-0.01	-0.11
11:117042408	chr11:117171692	rs186808413	*PAFAH1B2*	Ser161Leu	C/T	0.0099	0.0091	0.997	0.01	0.2	-0.061	-0.033	-0.18
11:18632984	chr11:18611437	rs10128711	*SPTY2D1*	Intron	T/C	0.69	0.68	1	0.024	0.0032	0.022	0.025	0.0077
11:61569830	chr11:61802358	rs174546	*FADS1*	Utr3	C/T	0.31	0.38	1	-0.047	-0.042	-0.031	-0.053	0.052
11:61570783	chr11:61803311	rs174547	*FADS1*	Intron	T/C	0.31	0.38	1	-0.047	-0.042	-0.031	-0.053	0.052
12:121420807	chr12:120983004	rs1183910	*HNF1A*	Intron	G/A	0.32	0.30	1	0.035	0.015	0.029	0.036	0.0012
12:121424861	chr12:120987058	rs7310409	*HNF1A*	Intron	A/G	0.60	0.64	1	-0.03	-0.016	-0.024	-0.027	-0.0011
15:43622265	chr15:43330067	rs3742970	*LCMT2*	Arg142Ser	C/A	0.084	0.089	0.999	0.0068	-0.027	0.016	0.0015	0.038
15:58683366	chr15:58391167	rs1532085	*SNX27*	Intergenic	A/G	0.59	0.58	1	-0.042	-0.096	-0.0071	0.00017	-0.031
16:15131962	chr16:15038105	rs1135999	*NTAN1*	Ser287Pro	A/G	0.30	0.26	1	-0.0014	-0.019	0.0054	-5.60E-05	0.024
16:56988044	chr16:56954132	rs173539	*OR10K2*	Intergenic	C/T	0.32	0.34	0.998	0.042	0.23	-0.04	-0.033	-0.034
16:56993324	chr16:56959412	rs3764261	*OR10K2*	Intergenic	C/A	0.31	0.31	1	0.043	0.24	-0.043	-0.032	-0.036
16:57006590	chr16:56972678	rs7499892	*CETP*	Intron	C/T	0.19	0.19	0.999	-0.041	-0.23	0.041	0.029	0.04
16:67911517	chr16:67877614	rs8060686	*EDC4*	Cys250Cys	T/C	0.20	0.14	1	0.022	0.056	0.0017	0.0043	-0.01
16:69385641	chr16:69351738	rs76116020	*TMED6*	Phe6Leu	A/G	0.033	0.025	1	-0.026	-0.041	-0.011	-0.013	0.0049
17:76403984	chr17:78407903	rs4129767	*PGS1*	Intron	G/A	0.49	0.48	1	0.018	0.026	0.0084	0.017	-0.017
18:57884750	chr18:60217517	rs12970134	*DVL1*	Intergenic	G/A	0.26	0.30	1	0.0014	-0.019	0.0081	0.0041	0.017
19:33909710	chr19:33418804	rs8182584	*PEPD*	Intron	T/G	0.59	0.64	1	-0.00015	0.013	-0.0047	-0.00029	-0.016
19:45395266	chr19:44892009	rs157580	*TOMM40*	Intron	G/A	0.63	0.61	0.999	0.073	-0.026	0.081	0.072	0.047
19:45415640	chr19:44912383	rs445925	*ATP13A2*	Intergenic	G/A	0.11	0.085	0.999	-0.21	0.04	-0.22	-0.32	0.12
19:49232226	chr19:48728969	rs2287922	*RASIP1*	Arg601Cys	G/A	0.47	0.60	1	0.029	-0.0048	0.03	0.026	0.019
22:21982892	chr22:21628603	rs2298428	*YDJC*	Ala263Thr	C/T	0.21	0.19	0.999	-0.022	-0.03	-0.011	-0.0087	-0.015
22:35660875	chr22:35264882	rs1053593	*HMGXB4*	Gly165Val	G/T	0.62	0.57	1	-0.018	-0.0014	-0.017	-0.016	-0.0067
22:39100128	chr22:38704123	rs5757251	*NPR1*	Intergenic	G/A	0.39	0.34	1	0.0045	-0.017	0.01	0.0043	0.016
32 variants not observed in the genotyped sample (n = 155 250) or with imputation information < 0.90													
1:55512222	chr1:55046549	rs67608943	*PCSK9*	Tyr143Stp	C/G	0.00015			-1.12	-0.14	-1	-1.08	-0.093
1:55512267	chr1:55046594	rs143117125	*PCSK9*	Asn158Lys	C/A	4.60E-05			-1.34	0.092	-1.3	-1.47	-0.24
1:55524222	chr1:55058549	rs141502002	*PCSK9*	Arg469Trp	C/T	0.00047			0.38	-0.018	0.38	0.39	0.096
1:55529215	chr1:55063542	rs28362286	*PCSK9*	Cys680Stp	C/A	0.00044			-1.01	0.17	-1	-1.11	-0.13
2:179309165	chr2:178444438	rs75862065	*PRKRA*	Pro116Leu	G/A	0.29			-0.0041	0.026	-0.013	-0.014	-0.0059
2:21242613	chr2:21019741	rs41288783	*APOB*	Pro994Leu	G/A	0.00065			0.47	0.075	0.43	0.56	-0.18
6:27835293	chr6:27867515	rs201148465	*HIST1H1B*	Ala6Ala	A/C	0.0014			0.19	0.021	0.18	0.21	0.035
7:80285893	chr7:80656577	rs144344249	*CD36*	Asn53Ser	A/G	0.001			0.063	0.22	-0.016	-0.0045	-0.076
8:19811733	chr8:19954222	rs118204057	*LPL*	Gly215Glu	G/A	0.00025			0.036	-0.59	0.24	0.031	0.54
9:107593329	chr9:104831048	rs137854496	*ABCA1*	Trp590Ser	C/G	8.60E-05			-0.65	-1.3	-0.18	-0.25	-0.082
11:116661392	chr11:116790676	rs2075291	*APOA5*	Gly185Cys	C/A	0.003			0.075	-0.29	0.18	-0.011	0.4
11:116701353	chr11:116830637	rs76353203	*APOC3*	Arg19Stp	C/T	0.00044			-0.067	0.88	-0.38	-0.13	-1.22

11:116701560	chr11:116830844	rs147210663	*APOC3*	Ala43Thr	G/A	0.00039	7.7E-06	0.856	-0.02	0.59	-0.23	-0.059	-0.76
12:123796238	chr12:123311691	rs4759375	*SBNO1*	Intron	C/T	0.11			0.026	0.051	0.0074	0.01	-0.0026
12:125284671	chr12:124800125	rs74830677	*SCARB1*	Pro376Leu	G/A	0.00033			0.36	0.57	0.15	0.065	-0.052
15:58855748	chr15:58563549	rs113298164	*LIPC*	Thr405Met	C/T	0.0033	0.000045	0.874	0.13	0.33	0.01	-0.031	0.12
16:67976823	chr16:67942920	rs199717050	*LCAT*	Arg123His	C/T	0.00023			-0.26	-0.70	-0.0067	-0.089	0.15
16:67976851	chr16:67942948	rs35673026	*LCAT*	Val114Met	C/T	0.00029			0.21	0.65	-0.025	0.063	-0.25
16:68013570	chr16:67979667	rs200922436	*DPEP3*	Arg154Lys	C/T	0.0017			-0.07	-0.23	0.013	-0.0017	0.081
18:47091686	chr18:49565316	rs200435657	*LIPG*	Essential_Splice_Site	G/A	0.00018			0.52	0.76	0.24	0.23	0.12
18:47095862	chr18:49569492	rs201922257	*LIPG*	Ala172Val	C/T	0.00021			0.36	0.61	0.14	0.17	-0.025
18:47101838	chr18:49575468	rs142545730	*LIPG*	Arg224His	G/A	0.00032			0.18	0.38	0.042	0.066	-0.049
19:10415795	chr19:10305119	rs200547722	*ZGLP1*	Val263Gly	A/C	0.00052			0.39	0.059	0.36	0.34	0.054
19:11213450	chr19:11102774	rs144172724	*LDLR*	Glu101Lys	G/A	3.30E-05			1.24	-0.044	1.2	1.34	0.0016
19:11215907	chr19:11105231	rs140807148	*LDLR*	Cys68Arg	T/C	6.70E-06			2.95	-0.43	3	3.08	0.4
19:11217344	chr19:11106668	rs139043155	*LDLR*	Asp140Glu	T/A	3.50E-05			1.45	-0.24	1.5	1.64	-0.0027
19:11224296	chr19:11113620	rs139624145	*LDLR*	Asp355Asn	G/A	3.00E-05			1.37	0.02	1.3	1.67	-0.35
19:11231112	chr19:11120436	rs28942084	*LDLR*	Pro517Leu	C/T	2.70E-05			1.45	-0.45	1.6	1.69	-0.49
19:11350874	chr19:11240198	rs145464906	*LOC55908*	Gln121Stp	C/T	0.00068			-0.026	0.43	-0.18	-0.059	-0.35
19:42584958	chr19:42080806	rs201596848	*ZNF574*	Arg734Cys	C/T	0.0014			-0.16	0.09	-0.19	-0.26	-0.043
19:45412040	chr19:44908783	rs769455	*APOE*	Arg163Cys	C/T	0.0013			-0.17	-0.11	-0.13	-0.32	0.35
21:46875775	chr21:45455861	rs114139997	*COL18A1*	Gly111Arg	G/A	0.0011			-0.087	0.14	-0.13	-0.08	-0.37

Abbreviations: TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; TG, triglycerides.

[a] Reported[5] effect sizes (in standard deviations, estimated on inverse-normal transformed residuals) for TC, HDL-C, LDL-C and TG. Effect sizes for non-HDL-C were calculated using the formula: nonHDL-C effect = 0.979 × TC effect – 0.354 × HDL-C effect (see **Methods** for details)

eTable 2: Relationship of Genetic Scores with Their Respective Lipid Traits

Genetic score	n	Effect on the respective lipid trait (95% CI)	Variance explained (R^2)
non-HDL cholesterol	93 556	0.964 (0.948–0.980) mmol/L	12.8%
LDL cholesterol	87 212	0.841 (0.827–0.855) mmol/L	13.1%
HDL cholesterol	93 746	0.272 (0.267–0.277) mmol/L	11.3%
Triglycerides	94 242	42.8 (42.0–43.7) %	8.9%

Results from linear regression using adjusted residuals of each lipid trait (described in **eMethods**) as the response variable and the respective genetic score as the independent variable.
Effects are given for a 1 unit increase in the respective genetic score. Effects for cholesterol traits are presented in units of mmol/L. The effect for triglyceride levels is presented as percentage change, obtained using a transformation of the β coefficient for adjusted residuals of $\log_e$-transformed values [$100 \times (e^{\beta}-1)$].
To convert from mmol/L to mg/dL, multiply by 38.7.

eTable 3: Pairwise-Correlations for Genetic Scores (Blue) and Lipid Traits (Green)

	non-HDL cholesterol	LDL cholesterol	HDL cholesterol	Triglycerides
non-HDL cholesterol		+0.92	-0.24	+0.48
LDL cholesterol	+0.95		-0.098	+0.19
HDL cholesterol	-0.32	-0.18		-0.47
Triglycerides	+0.49	+0.20	-0.48	

Pearson correlation coefficients, *r*.
Blue boxes show pair-wise correlation between the genetic scores in 155 250 genotyped individuals.
Green boxes show pairwise correlation between lipid traits (adjusted residuals, **eMethods**) in 87 212 genotyped individuals with available measurements for each lipid trait.

eTable 4. Genetic Scores for Lipid Levels and Angiographic Extent of CAD

Genetic Score	Covariates (Genetic Scores)[a]	Overall Sample (n = 12 460)		Patients with Obstructive CAD (n = 8984)			
		Obstructive CAD		Multivessel Disease		3-Vessel Disease	
		Odds Ratio (95% CI)	*P* Value	Odds Ratio (95% CI)	*P* Value	Odds Ratio (95% CI)	*P* Value
non-HDL-C	-	1.80 (1.60–2.02)	1.0×10^{-22}	1.25 (1.10–1.42)	6.3×10^{-4}	1.46 (1.25–1.70)	1.1×10^{-6}
	HDL-C	1.72 (1.52–1.94)	4.8×10^{-18}	1.25 (1.10–1.43)	9.0×10^{-4}	1.45 (1.23–1.70)	5.5×10^{-6}
	HDL-C + triglycerides	1.73 (1.51–1.99)	1.8×10^{-15}	1.30 (1.12–1.51)	5.0×10^{-4}	1.43 (1.20–1.71)	7.6×10^{-5}
	LDL-C	1.96 (1.36–2.82)	3.0×10^{-4}	0.97 (0.66–1.44)	0.89	1.51 (0.95–2.41)	0.082
LDL-C	-	1.71 (1.52–1.92)	6.9×10^{-20}	1.27 (1.12–1.44)	2.5×10^{-4}	1.42 (1.22–1.66)	5.3×10^{-6}
	HDL-C + triglycerides	1.62 (1.44–1.82)	1.4×10^{-15}	1.27 (1.11–1.44)	3.9×10^{-4}	1.37 (1.18–1.61)	5.7×10^{-5}
	non-HDL-C	0.91 (0.64–1.31)	0.62	1.30 (0.88–1.91)	0.19	0.96 (0.61–1.53)	0.88
HDL-C	-	0.73 (0.64–0.82)	2.0×10^{-7}	0.95 (0.83–1.08)	0.41	0.87 (0.75–1.01)	0.074
	LDL-C + triglycerides	0.85 (0.74–0.97)	0.017	0.98 (0.85–1.13)	0.79	0.98 (0.83–1.16)	0.83
	non-HDL-C + triglycerides	0.85 (0.74–0.97)	0.019	0.98 (0.85–1.13)	0.80	0.98 (0.83–1.17)	0.83
Triglycerides	-	1.77 (1.44–2.17)	5.3×10^{-8}	1.09 (0.87–1.36)	0.44	1.46 (1.12–1.89)	0.0048
	LDL-C + HDL-C	1.31 (1.03–1.65)	0.025	0.99 (0.77–1.27)	0.91	1.28 (0.95–1.72)	0.10
	non-HDL-C + HDL-C	0.96 (0.74–1.24)	0.77	0.85 (0.65–1.12)	0.26	1.05 (0.76–1.46)	0.76

Abbreviations: CAD, coronary artery disease; CI, confidence interval; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol.
Sample sizes ($n_{cases}/n_{controls}$): obstructive CAD (8984/3476), multivessel disease (5289/3695) and 3-vessel disease (2072/6157).
Odds ratios are scaled to correspond to a 1 SD increase in the respective cholesterol trait or for doubling of triglyceride levels. For non-HDL-C, LDL-C and HDL-C, this corresponds to 0.97 mmol/L [38 mg/dL], 0.87 mmol/L [34 mg/dL] and 0.38 mmol/L [15 mg/dL], respectively.
[a] In all models, age, age^2 and sex were included as covariates in addition to the genetic scores.

eTable 5: Lipid levels in Genotyped Icelanders

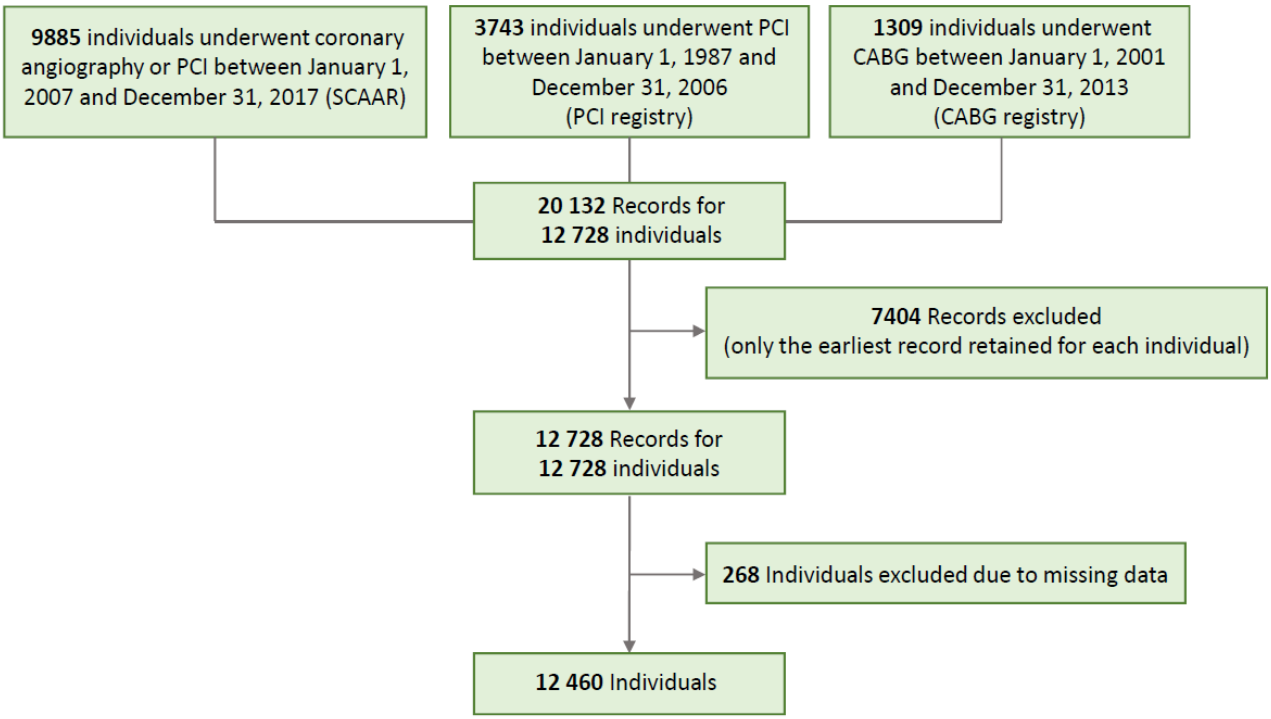
Lipid trait	n	Average raw measurements		Average adjusted residuals[a]	
		Mean (mmol/L)	SD (mmol/L)	Mean	SD
Total cholesterol	103 599	5.40	0.98	-0.044	0.94
non-HDL cholesterol	93 556	3.98	0.98	-0.067	0.97
LDL cholesterol	87 212	3.34	0.90	-0.019	0.87
HDL cholesterol	93 746	1.44	0.41	0.026	0.38
Triglycerides	94 242	1.45	0.81	-0.066	0.47

To convert from mmol/L to mg/dL, multiply by 38.7 for cholesterol traits and by 88.6 for triglycerides.
[a] Levels of total cholesterol, non-HDL cholesterol and LDL cholesterol were adjusted for lipid-lowering medications (see **eMethods**) and residuals obtained after accounting for age, age^2, sex, measurement site and county of birth. For individuals with multiple measurements, we used the average of the adjusted residuals. Lipid levels are shown in mmol/L for cholesterol traits and $\log_e$-transformed values for triglycerides (original units, mmol/L).

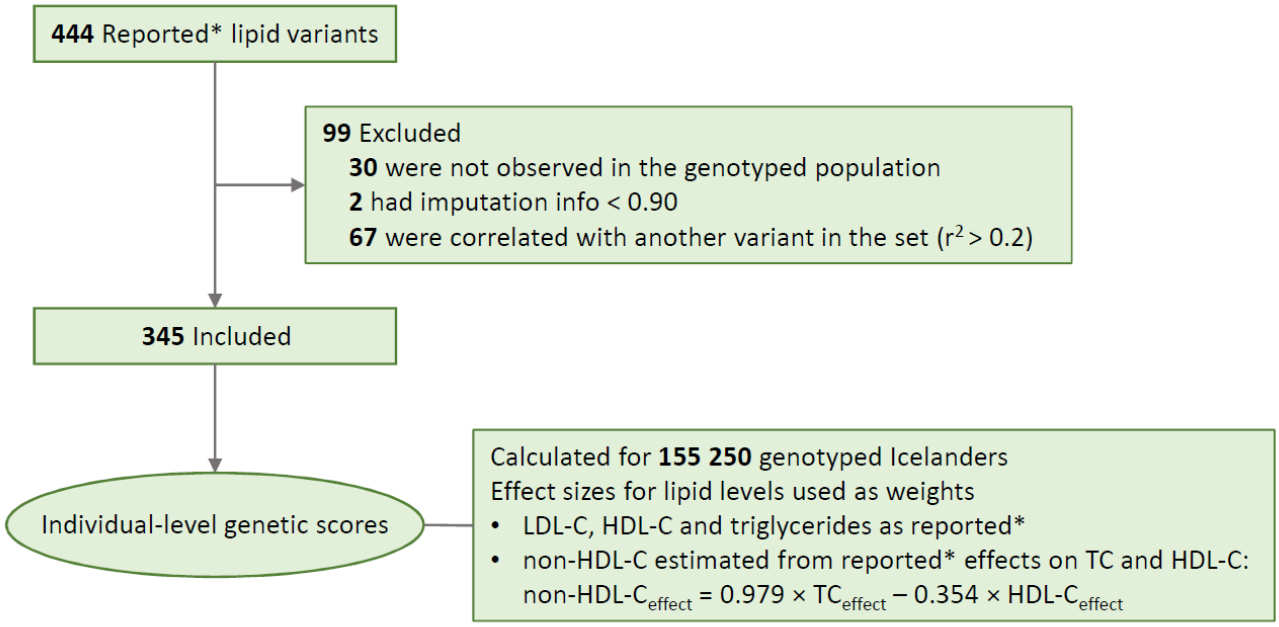
eTable 6: Association of the non-HDL-C Genetic Score with Coronary Artery Disease

Genetic Score	Covariates (Genetic Scores)	Iceland		UK Biobank	
		Odds Ratio	*P* Value	Odds Ratio	*P* Value
non-HDL-C	-	1.61	1.2×10^{-49}	1.52	4.4×10^{-138}
	HDL-C	1.56	3.9×10^{-40}	1.49	7.9×10^{-116}
	HDL-C + triglycerides	1.55	5.7×10^{-33}	1.47	3.3×10^{-94}
	LDL-C	1.79	7.8×10^{-9}	1.81	5.9×10^{-28}

The non-HDL-C genetic score for UK Biobank participants was calculated using the identical set of variants and weights as shown in **eTable 1**.
Sample sizes: Iceland: n = 19 123 cases and 124 461 controls; UK Biobank: n = 28 110 cases and 380 455 controls.
Analyses were adjusted for age, sex, year of birth and 40 principal components (UK Biobank) or county of birth (Iceland).
Odds ratios are given for 1 unit increase in the score.



eFigure 1. Generation of the Combined Coronary Angiography Dataset



*Liu DJ *et al*. Exome-wide association study of plasma lipids in >300,000 individuals. Nat Genet. 2017;49(12):1758-1766.

eFigure 2. Selection of Lipid Variants and Calculation of Genetic Scores

References

1. Sudlow C, Gallacher J, Allen N, Beral V, Burton P, Danesh J, Downey P, Elliott P, Green J, Landray M, Liu B, Matthews P, Ong G, Pell J, Silman A, Young A, Sprosen T, Peakman T, Collins R. UK Biobank: An Open Access Resource for Identifying the Causes of a Wide Range of Complex Diseases of Middle and Old Age. *PLOS Med* 2015;**12**:e1001779.

2. Bycroft C, Freeman C, Petkova D, Band G, Elliott LT, Sharp K, Motyer A, Vukcevic D, Delaneau O, O'Connell J, Cortes A, Welsh S, Young A, Effingham M, McVean G, Leslie S, Allen N, Donnelly P, Marchini J. The UK Biobank resource with deep phenotyping and genomic data. *Nature* 2018;**562**:203–209.

3. Helgadottir A, Gretarsdottir S, Thorleifsson G, Hjartarson E, Sigurdsson A, Magnusdottir A, Jonasdottir A, Kristjansson H, Sulem P, Oddsson A, Sveinbjornsson G, Steinthorsdottir V, Rafnar T, Masson G, Jonsdottir I, Olafsson I, Eyjolfsson GI, Sigurdardottir O, Daneshpour MS, Khalili D, Azizi F, Swinkels DW, Kiemeney L, Quyyumi AA, Levey AI, Patel RS, Hayek SS, Gudmundsdottir IJ, Thorgeirsson G, Thorsteinsdottir U, et al. Variants with large effects on blood lipids and the role of cholesterol and triglycerides in coronary disease. *Nat Genet* 2016;**48**:634–639.

4. Friedewald WT, Levy RI, Fredrickson DS. Estimation of the concentration of low-density lipoprotein cholesterol in plasma, without use of the preparative ultracentrifuge. *Clin Chem* 1972;**18**:499–502.

5. Liu DJ, Peloso GM, Yu H, Butterworth AS, Wang X, Mahajan A, Saleheen D, Emdin C, Alam D, Alves AC, Amouyel P, Angelantonio E Di, Arveiler D, Assimes TL, Auer PL, Baber U, Ballantyne CM, Bang LE, Benn M, Bis JC, Boehnke M, Boerwinkle E, Bork-Jensen J, Bottinger EP, Brandslund I, Brown M, Busonero F, Caulfield MJ, Chambers JC, Chasman DI, et al. Exome-wide association study of plasma lipids in >300,000 individuals. *Nat Genet* 2017;**49**:1758–1766.