

Supplementary Table S1 Instrumental variables for the primary MR analysis

Exposure	SNP	Chr	Pos	Effect allele	Other allele	Beta	Se	Pval	Eaf	Samplesize	Author	F statistics
ART4	rs1001096	12	14988455	A	G	0.74	0.0217	1E-200	0.397358	3301	Sun	1162.904288
PSAPL1	rs10023470	4	7434456	G	A	0.5481	0.0307	2.6E-71	0.184308	3301	Sun	318.7446127
CXCL11	rs10031452	4	76924933	C	T	-0.2328	0.0245	2.4E-21	0.528726	3301	Sun	90.28877968
SERPINA4	rs10135681	14	95007744	C	T	0.2771	0.0422	8.416E-11	0.395186	997	Suhre	43.0960851
SERPINA4	rs10139745	14	95035374	A	G	0.6166	0.0277	4.9E-110	0.221432	3301	Sun	495.5043856
DPT	rs1018454	1	168697761	C	A	0.4155	0.0241	7.8E-67	0.585888	3301	Sun	297.2404917
SEMA3C	rs1019016	7	80570562	T	G	0.1751	0.0248	1.6E-12	0.581376	3301	Sun	49.85043249
LRP8	rs10218811	1	53805882	A	G	0.166	0.027	9.8E-10	0.725	3200	Emilsson	37.79972565
CNTNAP2	rs10274393	7	145378588	C	G	-0.4332	0.0264	1.1E-60	0.711014	3301	Sun	269.2582645
CBR3	rs1028997	21	37532222	A	G	-0.764	0.0222	1E-200	0.375555	3301	Sun	1184.351919
C5	rs1035029	9	123742818	A	G	0.182	0.025	2.1E-13	0.611	3200	Emilsson	52.9984
EBI3	rs10409421	19	4254752	A	G	1.049	0.019	1E-200	0.716	3200	Emilsson	3048.202216
AOC1	rs10452848	7	150523544	A	G	-0.765	0.021	1E-200	0.498	3200	Emilsson	1327.040816
ENPP5	rs1047153	6	46128745	T	C	-0.7891	0.0214	1E-200	0.646395	3301	Sun	1359.67947
VIT	rs10490666	2	36932493	T	A	0.3471	0.0264	1.9E-39	0.304408	3301	Sun	172.8627324
UBASH3B	rs10502249	11	122504251	G	T	0.187	0.027	1.1E-11	0.712	3200	Emilsson	47.96844993
LIPN	rs10509554	10	90525792	T	C	1.0165	0.0213	1E-200	0.306794	3301	Sun	2277.485177
PREP	rs1051484	6	105726036	C	T	-0.453	0.032	7E-44	0.835	3200	Emilsson	200.3994141
DPP7	rs10747049	9	140008750	C	G	0.3641	0.0277	2.3E-39	0.749544	3301	Sun	172.7753652
VSIR	rs10762477	10	73531069	G	A	0.2705	0.0352	1.7E-14	0.14794	3301	Sun	59.05398534
UROS	rs10794029	10	127561568	G	A	-0.2329	0.0311	7.6E-14	0.794492	3301	Sun	56.08131636
ADAM12	rs10794057	10	127729734	T	C	-0.209	0.025	1.2E-16	0.398	3200	Emilsson	69.8896
SPON1	rs10832169	11	14066486	A	G	0.3748	0.0239	1.3E-55	0.490547	3301	Sun	245.9253865
PTHLH	rs10843115	12	28307717	T	C	0.1862	0.0276	1.4E-11	0.271368	3301	Sun	45.51360008
CBLN1	rs10852587	16	49006458	A	T	-1.0805	0.0327	1E-200	0.143622	3301	Sun	1091.827521
QSOX2	rs10858248	9	139108324	G	A	-0.3568	0.0239	1.5E-50	0.502175	3301	Sun	222.8711682
GFRA1	rs10885877	10	117966090	G	C	0.2645	0.0272	2E-22	0.295454	3301	Sun	94.56132407
FAM213A	rs10887868	10	82194264	A	G	-0.1879	0.025	5.5E-14	0.412045	3301	Sun	56.490256
CAPN1;CAPN	rs10895987	11	64904908	T	C	-0.4591	0.0509	1.007E-18	0.225628	995	Suhre	81.25492002
FCGR3B	rs10919543	1	161508617	G	A	0.4353	0.0251	3.2E-67	0.324432	3301	Sun	300.7667974
FKBP7	rs10930831	2	179303976	G	C	-0.365	0.027	2E-39	0.768	3200	Emilsson	182.7503429
FAM171B	rs10931256	2	187685195	C	T	-0.3336	0.0295	1.1E-29	0.216165	3301	Sun	127.8815972
ALPG	rs10933394	2	233249080	T	C	-0.192	0.026	1E-13	0.642	3200	Emilsson	54.53254438

GGH	rs10957266	8	63923764	C	T	0.7985	0.0456	1.2E-68	0.071297	3301 Sun	306.6338922
KIAA1161	rs10972076	9	34356359	T	C	0.3082	0.0252	2.2E-34	0.624659	3301 Sun	149.5767826
CNTFR	rs10972159	9	34593086	A	G	-0.6996	0.0941	1E-13	0.017903	3301 Sun	55.27393134
GPX7	rs1097234	1	53063559	A	C	0.5633	0.0311	1.6E-73	0.174745	3301 Sun	328.0641122
DKK3	rs11022114	11	12038874	A	G	0.3364	0.0269	6.5E-36	0.327961	3301 Sun	156.3894363
CLEC4C	rs11055602	12	7904111	T	G	-0.95	0.019	1E-200	0.567	3200 Emilsson	2500
TMEM132C	rs11059617	12	128757909	T	A	-0.225	0.0257	2.2E-18	0.335066	3301 Sun	76.64764039
SIGLEC14	rs1106476	19	52130637	A	T	-1.1918	0.0317	1E-200	0.116912	3301 Sun	1413.475346
FCN1	rs11103602	9	137854872	A	G	0.5827	0.0266	1.5E-106	0.258023	3301 Sun	479.8734948
OLFM1	rs11103667	9	137978360	C	T	-0.193	0.032	2.6E-09	0.815	3200 Emilsson	36.37597656
C4BPA	rs11120218	1	207278451	G	A	-0.429	0.038	1.5E-28	0.889	3200 Emilsson	127.4522161
REG1A	rs11126696	2	79323888	G	A	0.265	0.021	2.18E-40	0.612	6861 Yao	159.2403628
CTSD	rs111693235	11	1770224	C	G	0.35	0.0329	2E-26	0.71	3394 Folkersen	113.150544
LRIG3	rs11172791	12	59272973	C	T	-0.4624	0.0613	4.8E-14	0.04525	3301 Sun	56.90031908
ENTPD1	rs11188501	10	97600919	A	G	0.2147	0.0262	2.2E-16	0.339852	3301 Sun	67.15239497
FAM151A	rs11206397	1	55097068	T	A	0.2651	0.0261	2.6E-24	0.326689	3301 Sun	103.1664391
PTGR1	rs112140014	9	114325849	G	C	-0.726	0.055	2.1E-38	0.952	3200 Emilsson	174.24
NCAM1	rs11214489	11	112975934	C	T	0.368	0.024	3.01E-54	0.818	6861 Yao	235.1111111
MCAM	rs11217234	11	119177938	A	G	-0.144	0.026	4.32E-08	0.718	6861 Yao	30.67455621
TMEM132A	rs11230521	11	60698732	A	G	0.6176	0.0274	2E-112	0.231444	3301 Sun	508.058181
WFIKKN1	rs11248941	16	658271	G	T	-0.203	0.028	2.3E-13	0.732	3200 Emilsson	52.5625
CCL16	rs112689088	17	34307457	C	T	-1.5245	0.0336	1E-200	0.097531	3301 Sun	2058.620545
ASPH	rs112760834	8	62540134	T	G	-0.5784	0.0688	4.1E-17	0.033209	3301 Sun	70.67725798
SEMA4C	rs112826173	2	97489654	A	G	0.713	0.09	4E-15	0.981	3200 Emilsson	62.76160494
SFTPB	rs1130866	2	85893741	A	G	-0.686	0.022	3.5E-189	0.466	3200 Emilsson	972.3057851
B4GALT6	rs113222817	18	29216314	T	G	1.143	0.063	8.1E-71	0.965	3200 Emilsson	329.1632653
LYVE1	rs114527818	11	10619041	T	A	-0.369	0.055	3.3E-11	0.951	3200 Emilsson	45.01190083
FSTL1	rs1147707	3	120169248	T	C	-0.2113	0.0255	1.1E-16	0.389098	3301 Sun	68.66234525
TREM2	rs114812713	6	41034000	G	C	0.36	0.057	3.1E-10	0.955	3200 Emilsson	39.88919668
NMRAL1	rs11557236	16	4519439	A	G	-0.4905	0.0443	1.5E-28	0.082096	3301 Sun	122.5943826
CKM	rs11559024	19	45821183	C	T	-0.6788	0.0844	9.1E-16	0.021509	3301 Sun	64.68428382
PLXNC1	rs115651556	12	94613898	A	G	-2.1447	0.1008	2.1E-100	0.013723	3301 Sun	452.7016103
NTNG1	rs115668827	1	107678268	C	G	1.0036	0.0565	1.1E-70	0.048772	3301 Sun	315.5181956
MMP7	rs11568819	11	102401633	A	G	0.6681	0.087649	5.837E-14	0.066901	994 Suhre	58.10157729
PLA2G2A	rs11573156	1	20306146	C	G	1.0205	0.0243	1E-200	0.231634	3301 Sun	1763.654338

IL6ST	rs11574765	5	55278967	G	A	0.3809	0.0388	1E-22	0.115654	3301	Sun	96.37369141
IL11RA	rs11575578	9	34656479	A	G	0.5065	0.0479	4.4E-26	0.068486	3301	Sun	111.8118601
CD55	rs11580387	1	207418408	G	A	-0.5211	0.0279	4.7E-78	0.233948	3301	Sun	348.8459938
SLAMF7	rs11581248	1	160720074	T	C	-1.2597	0.0295	1E-200	0.142448	3301	Sun	1823.434749
IL23R	rs11581607	1	67707690	A	G	-0.42	0.0491	1.2E-17	0.066948	3301	Sun	73.1704282
FCRL4	rs11582663	1	157559122	T	C	-1.1329	0.0295	1E-200	0.144281	3301	Sun	1474.82035
KIAA2013	rs11588551	1	11941936	T	C	0.178	0.025	2E-12	0.418	3200	Emilsson	50.6944
GSTM3	rs115929572	1	110246053	G	A	-0.249	0.031618	3.4E-15	0.935	3200	Emilsson	62.01992276
VWA2	rs11595697	10	115905775	C	T	-0.431	0.042	7.8E-25	0.903	3200	Emilsson	105.3066893
RNASE6	rs11622942	14	21250846	T	G	0.9971	0.0236	1E-200	0.233384	3301	Sun	1785.0625
CD7	rs116473040	17	80291652	A	G	0.962	0.057	1.3E-61	0.955	3200	Emilsson	284.839643
HSP90B1	rs1165693	12	104340204	A	G	1.0974	0.0182	1E-200	0.321367	3301	Sun	3635.692428
SERPINF2	rs11657394	17	1636950	A	C	-0.3459	0.0479	5.4E-13	0.077401	3301	Sun	52.14709228
MATN4	rs11697677	20	43925554	G	A	-0.2298	0.028	2.5E-16	0.253541	3301	Sun	67.35719388
ORM1	rs116994374	9	117084672	G	A	-0.409	0.054	2.55E-14	0.94	6861	Yao	57.36659808
HPSE	rs11732810	4	84230878	G	T	0.541	0.028	7.7E-78	0.773	3200	Emilsson	373.317602
DUT	rs117540572	15	48670241	G	A	-0.339	0.05	2.1E-11	0.939	3200	Emilsson	45.9684
OAF	rs117554512	11	120098329	T	C	0.6816	0.0431	2.1E-56	0.086262	3301	Sun	250.0947777
GLCE	rs11854180	15	69559340	T	G	0.8286	0.0248	1E-200	0.769146	3301	Sun	1116.314321
FLRT3	rs11908097	20	14689146	C	T	0.4444	0.0278	2.5E-57	0.25127	3301	Sun	255.5397754
SPINK2	rs11941335	4	57689460	T	C	0.9996	0.083	2.2E-33	0.021062	3301	Sun	145.0428451
DKK1	rs1194673	10	54141652	A	G	0.1824	0.0261	2.8E-12	0.632462	3301	Sun	48.83921258
IL7R	rs11957503	5	35883176	G	T	0.4248	0.043644	1.922E-21	0.437249	996	Suhre	94.73571832
HGFAC	rs1203119	4	3406952	A	G	-0.9854	0.075924	1.095E-35	0.082412	995	Suhre	168.4480701
IFNLR1	rs12046369	1	24526135	G	T	0.244	0.035	3.3E-12	0.853	3200	Emilsson	48.60081633
PPIE	rs12086750	1	40210468	C	G	-0.3832	0.025	4.8E-53	0.370624	3301	Sun	234.947584
GALNT16	rs12100668	14	69793475	G	A	-0.194	0.025	4.4E-15	0.408	3200	Emilsson	60.2176
CD48	rs12124234	1	160675269	C	G	0.2639	0.0252	1.1E-25	0.405154	3301	Sun	109.6674383
PEAR1	rs12137505	1	156883546	G	A	-0.2226	0.0251	8.1E-19	0.406496	3301	Sun	78.65075158
GNLY	rs12151621	2	85934499	A	C	0.7736	0.0264	7.4E-189	0.227041	3301	Sun	858.6675849
METTL24	rs12189608	6	110573292	A	T	0.378	0.061	7.4E-10	0.956	3200	Emilsson	38.39935501
PPIL1	rs12194408	6	36839598	G	C	-1.106	0.0705	1.9E-55	0.030241	3301	Sun	246.1115638
GLO1	rs12209477	6	38669799	C	G	0.168	0.026	7.1E-11	0.66	3200	Emilsson	41.75147929
QSOX1	rs12371	1	180163390	G	A	0.6995	0.0426	1.3E-60	0.089018	3301	Sun	269.6225672
SPOCK2	rs1245540	10	73849752	T	C	0.2179	0.0243	3.3E-19	0.44884	3301	Sun	80.40849125

CD33	rs12459419	19	51728477	T	C	-0.9436	0.0209	1E-200	0.329168	3301 Sun	2038.371283
IGFLR1	rs12459634	19	36230174	C	T	-0.7007	0.033	5.8E-100	0.144789	3301 Sun	450.8544444
ALPP	rs12478529	2	233286654	C	T	-0.354	0.028	2.5E-35	0.778	3200 Emilsson	159.8418367
CPNE1	rs12481228	20	34218673	C	G	-0.977	0.0379	1.8E-146	0.097658	3301 Sun	664.5240565
FN1	rs1250258	2	216300185	C	T	-0.7113	0.04539	1.282E-49	0.254518	996 Suhre	245.5783267
ERO1B	rs1254194	1	236399442	T	G	-0.3822	0.0241	1.9E-56	0.595759	3301 Sun	251.5053804
IL12RB2	rs12566098	1	67889571	G	C	0.2568	0.0267	6E-22	0.688055	3301 Sun	92.50549173
RNASE4	rs12588573	14	21146584	T	C	-0.4494	0.0291	8.9E-54	0.224438	3301 Sun	238.495483
NAGPA	rs12599777	16	5079466	G	A	-0.4178	0.0317	1.4E-39	0.204198	3301 Sun	173.7074108
CNP	rs12602950	17	40123829	A	G	0.187	0.027	3.8E-12	0.704	3200 Emilsson	47.96844993
NPTXR	rs12628473	22	39240717	A	G	-1.013	0.107	4.6E-21	0.987	3200 Emilsson	89.62957464
KIAA1549L	rs12792396	11	33417110	G	A	0.439	0.025	7.1E-68	0.381	3200 Emilsson	308.3536
DLK1	rs12881760	14	101176335	C	G	0.5356	0.0251	3.5E-101	0.676353	3301 Sun	455.3377883
AP1G2	rs12897422	14	24033027	G	A	0.268	0.035	1.3E-14	0.858	3200 Emilsson	58.63183673
MAN1A2	rs1289863	1	117854689	C	T	0.21	0.026	1.5E-15	0.692	3200 Emilsson	65.23668639
NEO1	rs12903656	15	73326961	C	G	0.2861	0.0415	5.5E-12	0.10075	3301 Sun	47.52690376
NMB	rs12912342	15	85248216	T	C	0.164	0.025	7.6E-11	0.661	3200 Emilsson	43.0336
TNFSF12;TNFR1	rs12941509	17	7448288	G	C	0.3933	0.0266	2.2E-49	0.279301	3301 Sun	218.6173469
FCER2	rs12973524	19	7758263	A	G	-0.3062	0.0245	5.8E-36	0.484028	3301 Sun	156.1989838
LILRB5	rs12975366	19	54759361	C	T	-1.1607	0.0152	1E-200	0.405252	3301 Sun	5831.13093
GKN2	rs13008230	2	69154583	T	G	0.942	0.076	2.7E-34	0.973	3200 Emilsson	153.6295014
QPCT	rs13027919	2	37567636	C	T	0.271	0.024	3.5E-28	0.538	3200 Emilsson	127.5017361
BTD	rs13100619	3	15549967	A	C	1.431	0.058	4.4E-122	0.962	3200 Emilsson	608.7280024
TGFBI	rs13159365	5	135389433	T	C	-0.4461	0.0239	5E-78	0.507136	3301 Sun	348.3923776
TYMP	rs131798	22	50971509	G	T	0.204	0.03	1.8E-11	0.773	3200 Emilsson	46.24
HSPB1	rs13236526	7	75913642	A	G	0.36	0.042042	1.1E-17	0.7	3394 Folkersen	73.32437828
CPB1	rs13318853	3	148562399	A	G	0.2563	0.0293	2E-18	0.23152	3301 Sun	76.51771133
SCG3	rs1378892	15	51964865	C	T	0.486	0.0277	1E-68	0.763554	3301 Sun	307.8314588
CLEC11A	rs13866	19	51228746	C	T	0.154	0.026	4E-09	0.691	3200 Emilsson	35.08284024
IGLL1	rs139571703	22	23915620	T	C	-0.7264	0.0693	9.8E-26	0.037383	3301 Sun	109.8715375
SIGLEC7	rs140185670	19	51646140	C	G	-0.6089	0.0482	1.7E-36	0.07999	3301 Sun	159.5871326
ROR1	rs1408416	1	64614495	T	G	-0.44	0.033	1.8E-40	0.161988	3301 Sun	177.7777778
BPIFA2	rs141715080	20	31742114	C	T	0.429	0.076	2E-08	0.973	3200 Emilsson	31.86305402
IL18R1	rs1420106	2	103035044	G	A	-0.9085	0.0257	1E-200	0.775551	3301 Sun	1249.636255
ADIPOQ	rs143257534	3	186551888	C	T	0.425	0.072	3.3E-09	0.974	3200 Emilsson	34.84278549

SPINK6	rs1432688	5	147603178	G	A	1.0579	0.0428	7.6E-135	0.924477	3301 Sun	610.9444111
RECQL	rs144436375	12	21515500	A	C	-0.935	0.086	9E-27	0.98	3200 Emilsson	118.2024067
ADH5	rs1453873	4	100022571	C	T	-0.284	0.027	2.5E-25	0.742	3200 Emilsson	110.6392318
CPQ	rs145746079	8	97832518	T	C	1.192	0.073	7.1E-58	0.972	3200 Emilsson	266.6286358
CNTN5	rs1461672	11	99175378	T	C	0.734	0.082306	2.241E-18	0.061307	995 Suhre	79.52884876
SPARCL1	rs1462372	4	88478750	C	T	0.3214	0.0462	6.309E-12	0.327482	997 Suhre	48.39637909
MRC2	rs146385050	17	60637258	A	C	-0.2188	0.0323	1.3E-11	0.195049	3301 Sun	45.88699211
GP5	rs1466733	3	194120998	A	G	0.171	0.021	8.6E-17	0.737	6861 Yao	66.30612245
FTCD	rs149024257	21	47686213	G	A	-0.287	0.051	1.9E-08	0.938	3200 Emilsson	31.66820454
CSF2RB	rs1534881	22	37329448	A	G	-0.3158	0.0244	2.6E-38	0.445804	3301 Sun	167.5114888
MANF	rs1552074	3	51408051	T	C	0.391	0.035	2.6E-28	0.859	3200 Emilsson	124.8008163
RGMB	rs1563317	5	97768486	G	A	0.2161	0.0245	1.2E-18	0.552752	3301 Sun	77.79960017
GFRA2	rs15881	8	21550768	C	A	0.2954	0.0246	4.1E-33	0.455607	3301 Sun	144.195188
CNTN4	rs163352	3	3098041	C	G	-0.3249	0.0319	2.7E-24	0.81339	3301 Sun	103.7332672
C3	rs163494	19	6724340	C	T	0.264	0.031	3.4E-17	0.805	3200 Emilsson	72.52445369
ATP1B2	rs1642762	17	7554772	T	C	-0.2881	0.0255	1.5E-29	0.586879	3301 Sun	127.6456901
GP6	rs1654439	19	55553647	T	G	-0.6565	0.054876	6.59E-31	0.170181	996 Suhre	143.1232746
NRP2	rs16837641	2	206634869	A	G	0.2094	0.0271	1.1E-14	0.321865	3301 Sun	59.70555956
CXCL6	rs16850073	4	74703999	T	C	0.8877	0.03764	9.66E-98	0.376524	984 Suhre	556.1889605
ANGPTL1	rs16853043	1	178545926	G	A	0.4305	0.0247	5.4E-68	0.352388	3301 Sun	303.7752627
PDCD1LG2	rs16923189	9	5510644	G	A	0.3879	0.0259	7.9E-51	0.297639	3301 Sun	224.305556
CTSB	rs1692819	8	11705448	A	G	0.4246	0.0274	5.2E-54	0.291825	3301 Sun	240.1368746
GZMM	rs16989724	19	531115	T	C	0.4303	0.0529	3.9E-16	0.935134	3301 Sun	66.16546182
PI3	rs16989763	20	43779963	C	T	0.3756	0.0302	1.6E-35	0.195049	3301 Sun	154.6811105
AMY2B	rs17014913	1	104105635	A	G	0.433	0.034	3.2E-36	0.839	3200 Emilsson	162.1877163
SERPINA11	rs17090881	14	94913209	C	A	0.288	0.031	1.8E-20	0.835	3200 Emilsson	86.31009365
ANG	rs17114671	14	21155270	C	T	0.8064	0.059567	1.918E-38	0.118857	997 Suhre	183.2701028
IGFBP7	rs1718849	4	57942323	C	T	-0.3626	0.0281	5.2E-38	0.766286	3301 Sun	166.5110118
RNASE1	rs17254387	14	21280678	A	G	0.2302	0.0273	3E-17	0.687505	3301 Sun	71.10257752
PPP3CA;PPP3	rs17266357	4	102721809	C	T	0.3681	0.045005	8.67E-16	0.30993	997 Suhre	66.89851412
NTN4	rs17288108	12	96131895	G	A	-0.2779	0.0323	7.2E-18	0.181915	3301 Sun	74.02391473
SEMA5A	rs17329170	5	9547242	A	G	1.432	0.0324	1E-200	0.100634	3301 Sun	1953.421734
ADH7	rs17529509	4	100351436	C	A	0.401	0.048	8E-17	0.927	3200 Emilsson	69.79210069
SPOCK3	rs17599599	4	167961738	A	G	0.8477	0.0765	1.5E-28	0.028272	3301 Sun	122.7895749
CSF1	rs17610659	1	110503296	T	C	0.15	0.02428	6.5E-10	0.48	3394 Folkersen	38.16523862

LSAMP	rs17646258	3	116038249	C	T	0.222	0.031	1.5E-12	0.829	3200	Emilsson	51.28407908
CA13	rs17741049	8	86198253	T	C	-0.7441	0.079916	7.915E-20	0.068205	997	Suhre	86.6954112
FLRT2	rs17796777	14	85806774	C	A	-0.2353	0.0276	1.5E-17	0.285507	3301	Sun	72.68180267
CNDP1	rs17817077	18	72209543	A	G	0.35	0.04398	4.72E-15	0.405528	995	Suhre	63.33313279
QPCTL	rs17850756	19	46206262	A	G	-0.2881	0.026	1.6E-28	0.327901	3301	Sun	122.7834467
DSC2	rs1789063	18	28673913	A	T	-0.2159	0.0293	1.8E-13	0.768825	3301	Sun	54.29627602
CTSF	rs1791679	11	66337874	A	C	0.2349	0.0269	2.5E-18	0.289477	3301	Sun	76.25379693
TGFB1	rs1800470	19	41858921	A	G	0.259	0.024	4.5E-26	0.621	3200	Emilsson	116.4600694
ADH4	rs1800759	4	100065509	G	T	0.157	0.025	4.1E-10	0.622	3200	Emilsson	39.4384
CNTN1	rs1838343	12	41196230	C	T	0.207	0.021	6.45E-24	0.58	6861	Yao	97.16326531
ISG15	rs1891906	1	950243	C	A	0.2592	0.0253	1.4E-24	0.385856	3301	Sun	104.9612398
CPM	rs1908671	12	69433404	C	G	-0.1859	0.0272	8.1E-12	0.292111	3301	Sun	46.71119431
ADAM23	rs1921673	2	207324282	G	A	0.4321	0.0255	3.2E-64	0.6846	3301	Sun	287.1363476
PCDH9	rs1927820	13	67774646	G	C	-0.266	0.033	2.2E-15	0.846	3200	Emilsson	64.97337006
SMOC1	rs1958078	14	70354858	C	A	0.3765	0.0328	1.8E-30	0.833946	3301	Sun	131.7596018
MFGE8	rs1961839	15	89467454	A	G	-0.2253	0.0252	3.4E-19	0.397423	3301	Sun	79.93211451
HPGDS	rs1965049	4	95266204	G	A	0.4396	0.0246	1.3E-71	0.620956	3301	Sun	319.3339943
NPPB	rs198379	1	11915467	T	C	-0.266	0.024	1.58E-41	0.608	6861	Yao	122.8402778
CCL3L1	rs2015086	17	34391617	G	A	0.496	0.0364	3.1E-42	0.131452	3301	Sun	185.6780582
SEMA3G	rs2016575	3	52477080	C	T	-0.2687	0.0316	1.9E-17	0.815652	3301	Sun	72.30380748
SPINK5	rs2052536	5	147504557	T	G	-0.152	0.026	3.3E-09	0.349	3200	Emilsson	34.17751479
ENDOU	rs2072117	12	48131728	G	A	-0.163	0.026	3.8E-10	0.711	3200	Emilsson	39.30325444
CA3	rs2072696	8	86351051	C	G	-0.2169	0.0289	6.8E-14	0.23803	3301	Sun	56.32788161
SIGLEC9	rs2075803	19	51628529	G	A	-1.2255	0.0123	1E-200	0.55088	3301	Sun	9926.963117
UCMA	rs2093847	10	13276534	T	C	-0.5863	0.0382	3.1E-53	0.106703	3301	Sun	235.5662468
TIMP3	rs2097326	22	33165020	G	A	0.9307	0.039673	4.424E-97	0.27873	992	Suhre	550.328922
LILRB1	rs2114511	19	55145093	C	G	-1.8056	0.046	1E-200	0.051234	3301	Sun	1540.733157
SIGLEC6	rs2124910	19	52025247	T	C	0.653	0.043363	2.748E-46	0.407352	993	Suhre	226.769748
FUT8	rs2127870	14	65796846	C	G	-1.049	0.0246	1E-200	0.784568	3301	Sun	1818.363739
GPC5	rs2147190	13	92058888	T	C	0.3335	0.044856	2.267E-13	0.336355	993	Suhre	55.27657197
ACP6	rs2153463	1	147124310	G	T	0.944	0.022	1E-200	0.739	3200	Emilsson	1841.190083
MANSC1	rs2160588	12	12487447	A	G	0.5024	0.0371	8.7E-42	0.119697	3301	Sun	183.3797778
HP	rs217184	16	72105965	C	T	0.8688	0.0277	1E-200	0.195652	3301	Sun	983.7394466
PTPRU	rs2179795	1	29642318	G	T	0.154	0.028	3.8E-08	0.725	3200	Emilsson	30.25
ZG16B	rs2190809	16	2880614	C	T	0.156	0.027	1.5E-08	0.725	3200	Emilsson	33.38271605

CRP	rs2211320	1	159693605	G	A	0.149	0.02	4.77E-14	0.677	6861	Yao	55.5025
NEGR1	rs2220253	1	72565460	T	C	0.148	0.024	1.2E-09	0.545	3200	Emilsson	38.02777778
PLAU	rs2227551	10	75669190	T	G	-0.2435	0.0266	5.4E-20	0.716116	3301	Sun	83.79819379
PRCP	rs2229437	11	82564294	G	T	0.291	0.0315	2.8E-20	0.180887	3301	Sun	85.34240363
CRLF1	rs2238647	19	18710535	G	A	-0.286	0.029	1.4E-22	0.778	3200	Emilsson	97.26040428
SNCA	rs2245801	4	90757840	C	T	-0.2507	0.0303	1.2E-16	0.788276	3301	Sun	68.4578745
IFNAR1	rs2257167	21	34715699	C	G	-0.2897	0.0363	1.4E-15	0.13427	3301	Sun	63.69183192
GPNMB	rs2268748	7	23313171	C	T	0.6868	0.0619	1.2E-28	0.0406	3301	Sun	123.1060155
CD300A	rs2272111	17	72469966	G	A	0.435	0.028	1.2E-52	0.788	3200	Emilsson	241.3584184
CD59	rs2273121	11	33757770	A	G	-0.362	0.027	4.7E-41	0.251594	3301	Sun	179.7585734
MANBA	rs227370	4	103612043	C	T	-0.5596	0.0248	7.8E-113	0.674618	3301	Sun	509.1573881
CFH	rs2274700	1	196682947	A	G	0.3665	0.0243	1.6E-51	0.398961	3301	Sun	227.4759098
COL18A1	rs2274809	21	46906711	G	A	0.166	0.022	1.97E-14	0.645	6861	Yao	56.9338843
TIE1	rs2275180	1	43773033	G	A	0.2538	0.0251	4.8E-24	0.623345	3301	Sun	102.2435199
LAMC2	rs2276543	1	183155305	A	G	0.6155	0.0251	4.4E-133	0.279009	3301	Sun	601.3241853
PDIA5	rs2278668	3	122835232	C	T	-0.5216	0.0234	4E-110	0.593477	3301	Sun	496.8707722
CCDC126	rs227934	7	23627287	T	C	-0.2749	0.0246	6.9E-29	0.47897	3301	Sun	124.8760824
GSTO1	rs2282326	10	106020398	C	A	-0.9108	0.0204	1E-200	0.353535	3301	Sun	1993.359862
TPST2	rs2283824	22	26924456	A	G	0.2429	0.0246	6E-23	0.416943	3301	Sun	97.49555489
B4GALT2	rs2286241	1	44440769	C	G	-0.673	0.052	3E-38	0.056172	3301	Sun	167.5033284
TYRO3	rs2289743	15	41860698	C	G	-0.161	0.027	2.1E-09	0.691	3200	Emilsson	35.5569273
GSTA1	rs2290758	6	52662153	A	G	0.4157	0.0237	7.2E-69	0.570024	3301	Sun	307.6545603
MAN2B2	rs2301790	4	6600012	G	A	0.3342	0.0238	1E-44	0.483846	3301	Sun	197.178236
CRTAM	rs2370794	11	122714782	A	G	-0.236	0.026	5.8E-20	0.668	3200	Emilsson	82.39053254
TIMP2	rs2376999	17	76890864	A	G	0.418	0.037	3.3E-29	0.884	3200	Emilsson	127.6289262
FGFR3	rs2403274	4	1754515	C	G	0.177	0.029	6.7E-10	0.752	3200	Emilsson	37.25208086
BPIFB1	rs2424961	20	31694060	T	C	-0.4366	0.0245	3.9E-71	0.578579	3301	Sun	317.5669471
CSGALNACT	rs2435349	10	43643466	G	A	-0.1961	0.0278	1.6E-12	0.272811	3301	Sun	49.75830702
CA1	rs2453868	8	86302696	T	C	-0.147	0.025	2.2E-09	0.582	3200	Emilsson	34.5744
HBZ	rs2461286	16	203254	G	A	-0.8846	0.0209	1E-200	0.646861	3301	Sun	1791.436002
LECT2	rs248160	5	135293512	T	C	-0.312	0.026	3.7E-33	0.67	3200	Emilsson	144
RSPO3	rs2489623	6	127455821	C	A	0.27	0.0245	3.6E-28	0.534679	3301	Sun	121.4493961
NRP1	rs2506149	10	33480713	T	C	-0.2805	0.0256	6.9E-28	0.358077	3301	Sun	120.0565338
NTM	rs2511504	11	131196396	T	C	-0.381	0.023	1.7E-58	0.588	3200	Emilsson	274.4064272
ASPN	rs2516568	9	95187380	T	A	-0.4724	0.025	2.3E-79	0.323246	3301	Sun	357.058816

TAPBPL	rs2532497	12	6564210	A	G	1.2577	0.0163	1E-200	0.273692	3301 Sun	5953.58986
KLK10	rs2569454	19	51523203	C	T	0.405	0.026	4.5E-54	0.641	3200 Emilsson	242.6405325
PAM	rs257309	5	102418604	G	A	-0.4664	0.0248	3.8E-79	0.351714	3301 Sun	353.6826223
MIA	rs2604877	19	41275048	C	T	1.4417	0.0424	1E-200	0.068031	3301 Sun	1156.160383
CPZ	rs2631738	4	8479754	G	A	0.1949	0.0243	1E-15	0.519366	3301 Sun	64.32964148
C9	rs265721	5	39354069	G	A	-0.375	0.06	5.9E-10	0.959	3200 Emilsson	39.0625
PENK	rs2670014	8	57376781	T	C	-0.4653	0.0234	1.3E-87	0.473963	3301 Sun	395.397929
CCL4L1	rs2687507	17	34433964	C	T	-0.239	0.029	1.5E-16	0.747	3200 Emilsson	67.92033294
SOD3	rs2695234	4	24804238	G	A	-0.736	0.042	1.1E-64	0.919	3200 Emilsson	307.0839002
DSG2	rs2704050	18	29095888	G	A	-0.1687	0.0248	9.3E-12	0.49311	3301 Sun	46.27290908
PCYOX1	rs2706762	2	70488470	C	T	0.79	0.032	1.4E-121	0.86	3200 Emilsson	609.4726563
RPN1	rs2712417	3	128345179	G	A	-0.3447	0.0247	3.1E-44	0.618031	3301 Sun	194.7550198
FUT10	rs2732317	8	33330687	C	A	-0.4501	0.0242	2.5E-77	0.61158	3301 Sun	345.9292569
SCUBE1	rs2744874	22	43715862	T	C	-0.27	0.036	3.8E-14	0.866	3200 Emilsson	56.25
SERPINA1	rs2749534	14	94809760	G	A	0.4267	0.053763	5.551E-15	0.201103	997 Suhre	62.99181366
CD5L	rs2765501	1	157804648	G	A	-0.285	0.018	4.76E-54	0.608	6861 Yao	250.6944444
RNASE3	rs2771316	14	21430474	C	T	0.214	0.028	1.2E-14	0.723	3200 Emilsson	58.41326531
RET	rs2795507	10	43352894	C	T	-0.2768	0.0305	1.1E-19	0.796047	3301 Sun	82.36306369
ICAM5	rs281439	19	10400110	C	G	0.8918	0.0258	1E-200	0.7804	3301 Sun	1194.800853
NCAM2	rs2826851	21	22835946	A	G	-0.37	0.027	1.7E-42	0.733	3200 Emilsson	187.7914952
MMP12	rs28381684	11	102737192	T	A	-0.7789	0.0348	5.1E-111	0.124644	3301 Sun	500.9621565
MGAT2	rs28396798	14	50075319	T	C	0.1949	0.0244	1.3E-15	0.54747	3301 Sun	63.80342986
B3GNT8	rs284663	19	41932612	T	C	0.744	0.021	1E-200	0.56	3200 Emilsson	1255.183673
COLEC12	rs2846667	18	466810	G	T	0.202	0.0296	9.3E-12	0.745476	3301 Sun	46.57140248
PLXNB2	rs28573806	22	50727792	C	T	0.5315	0.0232	3.5E-116	0.399591	3301 Sun	524.8444003
NUDT9	rs28696943	4	88310135	G	A	-0.3571	0.0323	2.3E-28	0.166852	3301 Sun	122.2291118
QDPR	rs28719835	4	17520066	T	C	-0.5668	0.0275	1E-94	0.242578	3301 Sun	424.8095736
GDI2	rs2890364	10	5833748	G	A	0.219	0.029	9.1E-14	0.774	3200 Emilsson	57.02853746
TNFAIP6	rs289828	2	152137181	T	C	-0.5479	0.0237	5.5E-118	0.62173	3301 Sun	534.448557
HIBCH	rs291447	2	191177005	A	C	-0.631	0.023	2.9E-152	0.393	3200 Emilsson	752.6672968
ERAP2	rs2927608	5	96252432	A	G	1.0523	0.0168	1E-200	0.437292	3301 Sun	3923.381838
ISLR2	rs2959011	15	74611781	T	A	0.198	0.0261	3.2E-14	0.34226	3301 Sun	57.55053508
SULT2A1	rs296369	19	48371853	C	T	0.36	0.033	1.7E-27	0.843	3200 Emilsson	119.0082645
S100A7	rs3014860	1	153314782	A	G	-1.208	0.051	1.8E-114	0.948	3200 Emilsson	561.0396002
PDIA3	rs3110081	15	43995786	C	T	0.194	0.032	1.5E-09	0.821	3200 Emilsson	36.75390625

CCL8	rs3138036	17	32647544	G	A	-0.4704	0.060132	1.326E-14	0.145436	997	Suhre	61.19547132
CD14	rs3138074	5	140015932	A	T	0.332	0.022	9.22E-53	0.777	6861	Yao	227.7355372
TPST1	rs313829	7	65552497	G	A	0.2313	0.0262	1.1E-18	0.688554	3301	Sun	77.93789698
CP	rs34004251	3	148929951	T	A	-0.263	0.025	4.91E-25	0.812	6861	Yao	110.6704
PXDN	rs34008669	2	1709779	G	A	0.158	0.023	1.8E-11	0.502	3200	Emilsson	47.19092628
CACNA2D3	rs34084772	3	54153517	A	G	-0.2329	0.0323	5.1E-13	0.184066	3301	Sun	51.99168975
RETN	rs34124816	19	7733676	C	A	-0.6083	0.0645	4.4E-21	0.037632	3301	Sun	88.94390722
FLT4	rs34221241	5	180057293	C	T	-0.363	0.0401	1.5E-19	0.104286	3301	Sun	81.94538591
KDR	rs34231037	4	55972946	G	A	-1.1531	0.0649	1E-70	0.033769	3301	Sun	315.6781703
GPC5	rs342702	13	92422946	T	G	-0.8042	0.0247	1E-200	0.274008	3301	Sun	1060.069236
GLTPD2	rs34460487	17	4685228	A	G	0.2669	0.0259	6.8E-25	0.346378	3301	Sun	106.1934229
TCN1	rs34528912	11	59631535	T	C	-0.7109	0.0624	4.6E-30	0.04157	3301	Sun	129.7919774
CTSH	rs34593439	15	79234957	A	G	-1.147	0.0346	1E-200	0.110656	3301	Sun	1098.941662
H6PD	rs34603401	1	9305445	C	A	0.7589	0.0317	1E-126	0.150217	3301	Sun	573.1266208
HS6ST1	rs34827544	2	129084425	T	C	-0.3048	0.0348	1.9E-18	0.157293	3301	Sun	76.71343639
COCH	rs34907608	14	31330413	A	G	0.4759	0.0366	1E-38	0.118636	3301	Sun	169.0710457
WFDC5	rs35017113	20	43692684	C	T	0.229	0.033	4.7E-12	0.843	3200	Emilsson	48.15518825
IL27RA	rs35026308	19	14153293	C	T	-0.9457	0.0286	1E-200	0.176436	3301	Sun	1093.389029
TEK	rs35030851	9	27197486	T	G	0.5573	0.057	1.4E-22	0.046653	3301	Sun	95.59350262
DNER	rs35032874	2	230309360	T	G	0.162	0.029	1.7E-08	0.741	3200	Emilsson	31.20570749
AHSG	rs35094235	3	186328951	G	T	0.6252	0.0255	2E-132	0.731004	3301	Sun	601.1150173
AZU1	rs351976	19	806673	T	C	0.216	0.027	1.5E-15	0.709	3200	Emilsson	64
NPW	rs35327014	16	2076202	G	A	-0.4266	0.0288	1.6E-49	0.231175	3301	Sun	219.4101563
THBS4	rs35351529	5	79390222	T	C	-0.298	0.044	2.3E-11	0.923	3200	Emilsson	45.86983471
LILRA6	rs35361042	19	54748737	G	C	1.3399	0.0376	1E-200	0.091124	3301	Sun	1269.898717
WISP1	rs35472615	8	134197537	A	G	0.5113	0.0263	1.7E-84	0.274129	3301	Sun	377.9549943
CLMP	rs35483681	11	123045730	T	C	0.2494	0.0246	4.5E-24	0.553649	3301	Sun	102.78333
CFHR5	rs35662416	1	196967354	A	G	-1.2002	0.0682	3E-69	0.030392	3301	Sun	309.6980676
OSMR	rs357253	5	38907422	T	C	0.2089	0.0292	8.3E-13	0.231854	3301	Sun	51.18128401
DYNLL2	rs35729384	17	56178900	C	T	0.161	0.025	2.9E-10	0.698	3200	Emilsson	41.4736
RBP4	rs36014035	10	95360027	A	C	0.147	0.025	7.2E-09	0.643	3200	Emilsson	34.5744
FETUB	rs3733159	3	186360409	G	T	0.2662	0.043578	1.433E-09	0.312437	997	Suhre	37.3146113
CDON	rs3740909	11	125889526	T	C	-0.8286	0.077915	4.415E-25	0.073011	993	Suhre	113.0949884
CPB2	rs3742264	13	46648094	T	C	0.849	0.039827	2.806E-83	0.320603	995	Suhre	454.4132985
PLA2R1	rs3749117	2	160885442	C	T	-0.9021	0.0188	1E-200	0.501272	3301	Sun	2302.46834

FAM3D	rs3749290	3	58652292	T	G	-0.481	0.0413	2E-31	0.09578	3301 Sun	135.6407085
RGMA	rs3752102	15	93616014	A	C	-0.2012	0.0245	2.5E-16	0.473455	3301 Sun	67.44096626
TFF1	rs3761376	21	43787038	A	G	-0.2204	0.0291	3.9E-14	0.241766	3301 Sun	57.36370614
B3GALT6	rs3766186	1	1162435	C	A	0.271	0.041	6.5E-11	0.899	3200 Emilsson	43.68887567
MAN1C1	rs3767879	1	26070909	C	T	0.172	0.023	9.3E-14	0.465	3200 Emilsson	55.92438563
LAG3	rs3782735	12	6885076	A	G	0.154	0.025	4.3E-10	0.607	3200 Emilsson	37.9456
GNRH2	rs3787480	20	3016895	A	G	-0.2403	0.0342	2.3E-12	0.148627	3301 Sun	49.36911357
TREM1	rs3789204	6	41254741	G	T	-0.374	0.024	1.4E-54	0.693	3200 Emilsson	242.8402778
LEPR	rs3790438	1	66085525	A	T	-1.3745	0.0219	1E-200	0.175255	3301 Sun	3939.138571
TNFRSF19	rs3814787	13	24152370	G	C	-0.166	0.026	2.1E-10	0.714	3200 Emilsson	40.76331361
IDUA	rs3822020	4	985727	G	A	0.608	0.0235	7.2E-148	0.636581	3301 Sun	669.3779991
PLEKHA7	rs382280	11	16857799	T	C	0.2767	0.04	4.8E-12	0.121245	3301 Sun	47.85180625
CST6	rs3825068	11	65768093	G	A	0.5965	0.0757	3.2E-15	0.027795	3301 Sun	62.091069
IL17RA	rs3827278	22	17595915	A	C	0.975	0.0426	1.969E-93	0.231695	997 Suhre	523.837959
SIRPB1	rs3848788	20	1543066	A	G	0.7453	0.0239	1E-200	0.304983	3301 Sun	972.4481189
WFDC1	rs400345	16	84328494	C	T	0.451	0.029	5.5E-54	0.791	3200 Emilsson	241.8561237
GPC1	rs4074478	2	241446340	T	C	0.4237	0.0409	4.3E-25	0.106437	3301 Sun	107.3174419
CTSS	rs41271951	1	150737220	G	A	-0.8605	0.0419	7.1E-94	0.08349	3301 Sun	421.7680749
VEGFC	rs41278571	4	177650866	T	C	1.7416	0.1215	1.3E-46	0.010126	3301 Sun	205.4680391
COL15A1	rs41305481	9	101767385	G	A	0.2437	0.027	1.9E-19	0.301866	3301 Sun	81.46733882
SWAP70	rs415895	11	9769562	G	C	-0.2659	0.0256	3.5E-25	0.649843	3301 Sun	107.8839264
PTGFRN	rs4233450	1	117490261	T	G	1.0007	0.0283	1E-200	0.829141	3301 Sun	1250.359587
CCL5	rs4239252	17	34163565	A	G	-0.3458	0.052581	7.825E-11	0.211345	996 Suhre	43.25059933
C7	rs429017	5	41263091	A	G	0.4333	0.049515	9.039E-18	0.252792	985 Suhre	76.57944799
REG3G	rs429694	2	79244586	A	C	-0.487	0.028	9.5E-63	0.794	3200 Emilsson	302.5114796
ACE	rs4344	17	61566724	A	G	-0.583	0.022	8.5E-136	0.499	3200 Emilsson	702.25
HDGF	rs4399146	1	156713558	G	A	0.269	0.027	3.2E-23	0.717	3200 Emilsson	99.260631
OSCAR	rs4442925	19	54554950	T	C	0.138	0.024	1.3E-08	0.455	3200 Emilsson	33.0625
OBP2B	rs4454354	9	136089529	C	T	0.358	0.0298	2.7E-33	0.786126	3301 Sun	144.3223278
PDCD5	rs4499344	19	33073431	A	G	0.354	0.0269	1.2E-39	0.291128	3301 Sun	173.1816863
TIMP4	rs454615	3	12077010	C	T	0.4903	0.0318	1.7E-53	0.830831	3301 Sun	237.7220937
SEMA4D	rs45464494	9	91994433	C	T	1.278	0.041	1.5E-187	0.929	3200 Emilsson	971.6145152
ARFIP1	rs4619875	4	153701130	T	C	0.239	0.0248	6.6E-22	0.403628	3301 Sun	92.87363424
SPINK1	rs4705205	5	147218813	T	C	-0.212	0.025	1.5E-17	0.573	3200 Emilsson	71.9104
MMP1	rs471994	11	102697731	G	A	0.32	0.025785	2.3E-35	0.65	3394 Folkersen	154.0136753

ACHE	rs4727469	7	100509163	C	T	-0.297	0.023	7.5E-37	0.524	3200	Emilsson	166.7466919
HSD17B14	rs473464	19	49334248	T	C	0.145	0.026	2.7E-08	0.498	3200	Emilsson	31.10207101
OAS1	rs4767027	12	113359157	C	T	-0.2701	0.0256	6.2E-26	0.653837	3301	Sun	111.318985
IL16	rs4778639	15	81600451	G	T	-0.6805	0.042	4.5E-59	0.09142	3301	Sun	262.5171485
CRISP2	rs478328	6	49720877	G	A	0.5695	0.0227	4.2E-139	0.454081	3301	Sun	629.413049
SECTM1	rs4789763	17	80289284	G	A	0.2805	0.0246	3.8E-30	0.492828	3301	Sun	130.0156157
LGALS3BP	rs4789847	17	77004644	A	G	-0.196	0.033	3.9E-09	0.829	3200	Emilsson	35.27640037
TMEM190	rs4806666	19	55888095	T	C	-0.997	0.0177	1E-200	0.438473	3301	Sun	3172.807942
TCN2	rs4820885	22	31012756	C	T	-0.7247	0.0212	1E-200	0.549103	3301	Sun	1168.543276
PDE5A	rs4834770	4	120241849	A	G	-0.314	0.044617	3.633E-12	0.434171	995	Suhre	49.52810955
CREB3L4	rs4845586	1	153942597	G	T	0.2556	0.0248	7.1E-25	0.46994	3301	Sun	106.2229448
TF	rs4854760	3	133498741	A	G	-0.227	0.028	6.1E-16	0.735	3200	Emilsson	65.72576531
CXCL10	rs4859589	4	76948299	G	A	0.133	0.024398	5E-08	0.505	3200	Emilsson	29.71678549
ART3	rs4859610	4	77000441	G	A	-0.3378	0.0286	3E-32	0.774293	3301	Sun	139.5041811
TNFRSF10B	rs4871844	8	22879734	T	C	-0.143	0.026	4.3E-08	0.658	3200	Emilsson	30.25
CFHR4	rs4915559	1	196886770	T	C	0.655	0.026	1.7E-131	0.753	3200	Emilsson	634.6523669
MFAP2	rs4920605	1	17315425	A	G	0.2073	0.0243	1.3E-17	0.553544	3301	Sun	72.77564396
IL12B	rs4921484	5	158769753	C	T	0.3123	0.0262	7.2E-33	0.678009	3301	Sun	142.0827603
FMOD	rs4971253	1	203321414	G	A	0.25	0.045	2.7E-08	0.921	3200	Emilsson	30.86419753
TPSAB1;TPSI	rs4984778	16	1297516	C	G	0.5167	0.046322	2.678E-27	0.284639	996	Suhre	124.4245472
GNPTG	rs4984820	16	1407809	C	T	-0.344	0.046	8E-14	0.923	3200	Emilsson	55.92438563
LCT	rs4988235	2	136608646	A	G	0.7759	0.0244	1E-200	0.711217	3301	Sun	1011.18787
MTRF1L	rs503366	6	153333550	C	T	0.1652	0.0243	1.1E-11	0.497366	3301	Sun	46.21761588
APOB	rs520354	2	21259612	G	A	0.3033	0.041676	6.929E-13	0.473394	996	Suhre	52.96220923
LY9	rs540254	1	160767737	C	T	0.4173	0.044803	7.783E-20	0.353266	995	Suhre	86.7532742
CLEC1B	rs544605	12	10146707	T	C	-0.504	0.028	4.8E-70	0.781	3200	Emilsson	324
CALCOCO2	rs550510	17	46926615	G	A	0.19	0.033	1E-08	0.843	3200	Emilsson	33.1496786
LPA	rs55730499	6	161005610	C	T	-1.255	0.046	3.77E-167	0.939	6861	Yao	744.3407372
PGLYRP2	rs55866012	19	15578008	T	G	0.486	0.033	1.8E-47	0.842	3200	Emilsson	216.892562
CTSC	rs55897509	11	88066714	A	C	-0.926	0.041	2.3E-107	0.918	3200	Emilsson	510.0987507
XXYLT1	rs55947051	3	194783033	T	C	-0.248	0.033	8.6E-14	0.841	3200	Emilsson	56.4775023
VAV1	rs56100731	19	6857245	C	T	0.363	0.048	5.6E-14	0.93	3200	Emilsson	57.19140625
RNASE2	rs56204594	14	21433367	C	A	0.2366	0.0244	3.2E-22	0.464292	3301	Sun	94.02640419
OLFM2	rs56243392	19	10061960	A	T	-0.673	0.024	6E-157	0.651	3200	Emilsson	786.3350694
FCN2	rs57136797	9	137752540	T	A	-0.6346	0.0353	3.7E-72	0.163996	3301	Sun	323.1846496

LRRC15	rs57514363	3	194087927	G	T	0.5927	0.0383	5.9E-54	0.112882	3301 Sun	239.4816857
LGALS2	rs5756729	22	37961353	T	C	-0.275	0.0259	2.2E-26	0.592511	3301 Sun	112.7368405
ENTPD5	rs57731447	14	74487521	A	G	-0.9668	0.0489	7.8E-87	0.05877	3301 Sun	390.8909046
CFHR1	rs57809726	1	196841377	A	G	1.295	0.027	1E-200	0.862	3200 Emilsson	2300.445816
S100A4	rs58056804	1	153524706	A	G	0.5046	0.0565	4.5E-19	0.049682	3301 Sun	79.76228679
FCRL6	rs58240276	1	159783559	T	C	-0.6094	0.0299	3.1E-92	0.190167	3301 Sun	415.3962036
ERLEC1	rs58359565	2	53958919	A	C	-0.2076	0.0295	2.1E-12	0.218741	3301 Sun	49.5234243
GRN	rs5848	17	42430244	T	C	-0.2763	0.0281	8.1E-23	0.28735	3301 Sun	96.68278011
CRTAC1	rs588061	10	99642731	C	T	0.346	0.024	8.6E-47	0.529	3200 Emilsson	207.8402778
NOV	rs58936256	8	120422799	C	T	0.2085	0.0301	4.2E-12	0.215178	3301 Sun	47.98208629
CDH11	rs59614634	16	65029943	A	T	0.803	0.036	3.4E-101	0.89	3200 Emilsson	497.5378086
RNPEP	rs59698324	1	201965855	C	T	0.371	0.027	3.8E-42	0.725	3200 Emilsson	188.8079561
SHANK3	rs6010042	22	51098764	G	A	-0.327	0.027	6.6E-33	0.748	3200 Emilsson	146.6790123
SPINT3	rs6017591	20	44141041	C	T	0.5431	0.0227	6E-127	0.541306	3301 Sun	572.4108948
SIRPG	rs6043409	20	1616206	G	A	0.2628	0.0261	8.1E-24	0.652477	3301 Sun	101.3840666
RSPO4	rs6056847	20	1028346	G	A	-0.172	0.023	9E-14	0.575	3200 Emilsson	55.92438563
GRAMD1C	rs61077924	3	113625933	G	C	0.6198	0.0239	3.4E-148	0.324013	3301 Sun	672.5233102
CST2	rs6114248	20	23711882	A	G	0.5148	0.042887	4.39E-31	0.314573	995 Suhre	144.0854982
CST1	rs6114248	20	23711882	A	G	0.564	0.042554	5.048E-37	0.314573	995 Suhre	175.6608501
SIRPA	rs6136377	20	1896288	G	A	-1.2106	0.0153	1E-200	0.368754	3301 Sun	6260.636336
CST5	rs6138152	20	23850130	G	A	0.7176	0.050071	1.76E-42	0.195587	997 Suhre	205.3955084
CST7	rs6138458	20	24973769	A	G	-0.7626	0.046919	7.603E-53	0.227182	997 Suhre	264.1741802
NELL1	rs61652119	11	20955270	A	G	1.1098	0.0553	1.3E-89	0.048674	3301 Sun	402.7533657
CDNF	rs61738953	10	14862082	G	C	-0.6293	0.0681	2.5E-20	0.041783	3301 Sun	85.39279715
EMILIN3	rs61739314	20	39990377	C	G	-0.6855	0.0691	3.6E-23	0.033292	3301 Sun	98.41443953
TEPSIN	rs61745945	17	79205421	A	G	-0.8768	0.0986	5.9E-19	0.016358	3301 Sun	79.07646606
SVEP1	rs61751937	9	113312231	C	G	1.1854	0.0702	5.2E-64	0.030029	3301 Sun	285.138343
INPP5B	rs61778082	1	38306356	T	C	0.547	0.034	2.1E-55	0.865	3200 Emilsson	258.8313149
TMEM132D	rs61943549	12	130092229	T	C	-0.486	0.055	1E-18	0.948	3200 Emilsson	78.08132231
LGALS9	rs62055780	17	25971795	T	C	0.203	0.03	7.9E-12	0.753	3200 Emilsson	45.78777778
NPTX1	rs62069681	17	78624702	C	T	0.514	0.0417	7.6E-35	0.09319	3301 Sun	151.9337048
CD300C	rs62087214	17	72467626	G	A	-0.6787	0.0637	1.7E-26	0.038512	3301 Sun	113.5211635
SERPINF1	rs62088172	17	1666253	T	C	-0.4449	0.0251	1.8E-70	0.344526	3301 Sun	314.1791559
ASIP	rs62212171	20	32987687	T	C	-0.814	0.037	9.6E-98	0.89	3200 Emilsson	484
CYTL1	rs62291616	4	5052063	T	C	-0.354	0.029	1.2E-32	0.814	3200 Emilsson	149.0083234

PCSK1	rs6234	5	95728974	C	G	-1.0975	0.0209	1E-200	0.260198	3301 Sun	2757.506124
IGF2R	rs629849	6	160494409	G	A	0.8992	0.0331	9.5E-163	0.870653	3301 Sun	738.0004199
CRHBP	rs6414971	5	76170674	T	A	-0.511	0.026	2.9E-79	0.741	3200 Emilsson	386.2736686
IL1RAP	rs6444442	3	190346060	G	A	-1.352	0.0246	1E-200	0.841013	3301 Sun	3020.530108
UNC5D	rs6468316	8	35237788	T	C	0.141	0.024	9.5E-09	0.417	3200 Emilsson	34.515625
C1RL	rs6488561	12	7246894	G	A	0.27	0.027	5.6E-24	0.695	3200 Emilsson	100
EVA1C	rs6517101	21	33868483	G	T	0.1792	0.026	5.9E-12	0.331469	3301 Sun	47.50390533
IL18RAP	rs6543140	2	103074274	T	G	0.4854	0.046024	1.013E-24	0.301308	994 Suhre	111.234064
JAM3	rs655627	11	134021859	A	G	0.184	0.024	4.1E-14	0.566	3200 Emilsson	58.77777778
SERPINA3	rs6575449	14	95097303	T	C	-0.4323	0.053511	1.903E-15	0.18593	995 Suhre	65.26603939
NFASC	rs6667532	1	204948659	G	A	0.8226	0.0387	4.1E-100	0.10515	3301 Sun	451.8096268
MAPKAPK2	rs6669284	1	206890435	A	G	0.3261	0.044323	3.902E-13	0.349398	996 Suhre	54.13139021
PRDX6	rs6671141	1	173446934	T	G	-0.413	0.034	8.8E-33	0.85	3200 Emilsson	147.5510381
EPHB2	rs6687487	1	23061551	A	G	-0.6122	0.0447	1.3E-42	0.080316	3301 Sun	187.5735527
EDAR	rs6750059	2	109611097	C	T	-0.44	0.049005	1.343E-18	0.248996	996 Suhre	80.61582672
IL1RN	rs6761276	2	113832312	C	T	-0.1907	0.0248	1.5E-14	0.577697	3301 Sun	59.1286583
IL17RD	rs6776722	3	57142659	A	G	-0.4623	0.0254	3.4E-74	0.695339	3301 Sun	331.268662
CD200R1	rs6791672	3	112591392	A	G	-0.1759	0.0252	2.8E-12	0.590611	3301 Sun	48.7226159
LRRN1	rs6801789	3	3807592	C	T	0.246	0.0253	2.3E-22	0.354026	3301 Sun	94.5429549
AFP	rs6829551	4	74173715	T	C	0.187	0.031	2.4E-09	0.812	3200 Emilsson	36.38813736
PDLIM4	rs6864922	5	131616290	C	T	0.676	0.048	1.5E-44	0.937	3200 Emilsson	198.3402778
VEGFA	rs6921438	6	43925607	A	G	-0.7023	0.0215	1E-200	0.496842	3301 Sun	1067.009822
ADAM22	rs6966166	7	87455155	T	C	-0.177	0.026	9.8E-12	0.478	3200 Emilsson	46.34467456
CA8	rs7009482	8	61195053	G	A	-0.188	0.025	5.9E-14	0.589	3200 Emilsson	56.5504
PTGDS	rs7019538	9	139861470	C	T	0.1979	0.0246	7.8E-16	0.524107	3301 Sun	64.71744663
B4GALT1	rs7019909	9	33113322	T	C	0.4478	0.0402	7.9E-29	0.102573	3301 Sun	124.0840821
PSAP	rs7086891	10	73655350	G	A	0.619	0.025	3.6E-122	0.709	3200 Emilsson	613.0576
APOL1	rs71314970	22	36638705	T	C	-0.3659	0.0409	3.5E-19	0.105762	3301 Sun	80.03467818
MGP	rs7135211	12	15052758	G	A	0.265	0.019	3.62E-44	0.622	6861 Yao	194.5290859
SPINT2	rs71354995	19	38791841	G	A	-0.9908	0.0227	1E-200	0.242563	3301 Sun	1905.110986
LGMMN	rs7140705	14	93224207	T	G	-0.268	0.045	3.6E-09	0.913	3200 Emilsson	35.46864198
ADAMTS13	rs71503194	9	136298131	G	T	-0.8719	0.0404	4.4E-103	0.091229	3301 Sun	465.7690484
APCS	rs71632673	1	159536213	A	C	-0.8369	0.082	1.9E-24	0.022925	3301 Sun	104.1644274
MTHFS	rs7173566	15	80211691	C	T	-0.2126	0.0263	6E-16	0.342884	3301 Sun	65.3454004
WFIKKN2	rs7225465	17	48916159	A	G	-0.6533	0.0238	9.3E-166	0.68203	3301 Sun	753.4794329

ADGRE2	rs7260110	19	14501544	G	A	0.2969	0.04471	5.169E-11	0.35994	996	Suhre	44.09765787
IL7	rs72666886	8	79728782	C	T	0.34	0.042	5.3E-16	0.903	3200	Emilsson	65.53287982
LRP12	rs72679151	8	105627117	C	T	-0.211	0.03	2.6E-12	0.796	3200	Emilsson	49.46777778
AKR1A1	rs72688441	1	46051053	A	G	-1.18	0.0493	1.2E-126	0.058959	3301	Sun	572.8885945
CST4	rs7270028	20	23681073	C	A	0.465	0.039	1.8E-31	0.896	3200	Emilsson	142.1597633
IFI16	rs72709516	1	159004851	T	C	0.8518	0.0577	2.6E-49	0.04404	3301	Sun	217.9333251
NTN1	rs72809988	17	8986397	A	G	-0.5788	0.038	1.6E-52	0.110474	3301	Sun	232.0009972
PCBD1	rs72818110	10	72614896	A	C	0.374	0.057	7.6E-11	0.951	3200	Emilsson	43.052016
GP1BA	rs72835078	17	4826592	T	G	0.3281	0.0481	9.1E-12	0.071969	3301	Sun	46.52884886
ST3GAL6	rs72934623	3	98509705	A	G	-1.8784	0.0447	1E-200	0.053172	3301	Sun	1765.879695
POMGNT2	rs729654	3	43147652	T	C	-0.2561	0.0239	9.3E-27	0.473213	3301	Sun	114.8215367
GFRAL	rs72975088	6	55535375	T	A	0.2467	0.0348	1.3E-12	0.1485	3301	Sun	50.25506177
THBS2	rs73043857	6	169624900	G	A	0.8084	0.0383	6.9E-99	0.102347	3301	Sun	445.5075432
PZP	rs7311982	12	9314857	C	T	0.5	0.019	2.7E-135	0.698	3200	Emilsson	692.5207756
SELPLG	rs73191242	12	109013956	G	A	0.209	0.03	2.1E-12	0.795	3200	Emilsson	48.53444444
BST1	rs73224660	4	15714762	A	G	-1.3967	0.0239	1E-200	0.158997	3301	Sun	3415.155354
FAM3B	rs73226194	21	42721869	T	C	-1.1495	0.0614	3.9E-78	0.039928	3301	Sun	350.4945013
CD177	rs73554000	19	43825494	C	G	1.8032	0.0787	4.4E-116	0.023826	3301	Sun	524.97465
ITIH2	rs73621225	10	7740905	T	A	-1.181	0.044	1.4E-142	0.933	3200	Emilsson	720.4344008
DNAJC30	rs73702564	7	73084816	T	C	0.7183	0.0622	6.9E-31	0.038602	3301	Sun	133.361651
SCARF2	rs738086	22	20775556	T	G	0.2997	0.0318	4.8E-21	0.811314	3301	Sun	88.82173371
CFI	rs7439493	4	110656730	A	G	0.3116	0.0246	8.9E-37	0.415959	3301	Sun	160.4444444
CBLN4	rs74447607	20	54447947	T	C	-0.2177	0.0312	3E-12	0.191752	3301	Sun	48.68640081
RRM2B	rs74589258	8	103215228	G	A	0.3254	0.0479	1.1E-11	0.07035	3301	Sun	46.14918868
NUDT12	rs74692061	5	102903643	G	A	-0.3756	0.0341	2.8E-28	0.156975	3301	Sun	121.3227956
CCL25	rs74959615	19	8121096	A	G	-0.9718	0.0428	5.2E-114	0.078294	3301	Sun	515.5446109
CREG1	rs7513428	1	167515272	C	T	-0.3111	0.0334	1.4E-20	0.836173	3301	Sun	86.75751192
POGLUT1	rs75203710	3	119121679	C	T	0.3935	0.0483	3.8E-16	0.070387	3301	Sun	66.37357527
HDHD2	rs75228657	18	44741063	G	A	0.7021	0.0544	4.7E-38	0.052264	3301	Sun	166.5712891
LHB	rs75287599	19	49517140	T	C	-0.4342	0.0458	2.4E-21	0.077817	3301	Sun	89.8770237
PPT1	rs7533094	1	40559686	A	G	-0.8621	0.0603	2.3E-46	0.041979	3301	Sun	204.3998938
AMY1A	rs7538379	1	104067356	T	C	-1.0399	0.062	4.9E-63	0.039949	3301	Sun	281.3194615
BCAN	rs7541549	1	156588439	T	C	0.201	0.029	5.6E-12	0.767	3200	Emilsson	48.039239
SFRP4	rs75474297	7	37973124	T	A	-0.302	0.034	2.1E-18	0.855	3200	Emilsson	78.89619377
APOA1	rs75507001	11	116577694	C	A	0.55	0.061	1.7E-19	0.957	3200	Emilsson	81.29535071

IL1R2	rs7561460	2	102617204	C	T	-0.4025	0.0242	6.2E-62	0.395872	3301 Sun	276.6311215
IL18	rs75649625	11	112052194	G	A	0.29	0.030392	1.4E-21	0.76	3394 Folkersen	91.05121025
PSMB1	rs756519	6	170850862	G	A	0.412	0.023	8.1E-67	0.531	3200 Emilsson	320.8771267
RTN4R	rs75766	22	20174853	A	C	-0.3498	0.0283	4.8E-35	0.748115	3301 Sun	152.7800822
IL1R1	rs7588201	2	102746276	A	C	0.163	0.026	2.6E-10	0.722	3200 Emilsson	39.30325444
NAGK	rs7606102	2	71276399	G	A	-0.432	0.0331	6E-39	0.170314	3301 Sun	170.3379852
POFUT1	rs76143353	20	30815755	T	C	-0.8	0.0499	9.3E-58	0.059564	3301 Sun	257.0270802
CDCP1	rs7621542	3	45206484	C	T	0.18	0.031	5.9E-09	0.8	3200 Emilsson	33.71488033
GSN	rs76331566	9	124009014	C	T	0.398	0.068	5E-09	0.969	3200 Emilsson	34.25692042
SPARCL1	rs7681694	4	88462729	A	G	0.5315	0.0244	2.7E-105	0.3366	3301 Sun	474.4898045
BTNL8	rs7721375	5	180439650	C	T	0.273	0.024	1.4E-28	0.507	3200 Emilsson	129.390625
CYB5D2	rs77246175	17	4072761	G	C	-0.342	0.046	2E-13	0.921	3200 Emilsson	55.27599244
ADAM19	rs7728609	5	156935524	C	T	0.246	0.026	1.2E-21	0.675	3200 Emilsson	89.52071006
IL5RA	rs77400868	3	3150964	G	A	0.5096	0.0362	6.8E-45	0.13908	3301 Sun	198.1717286
CROT	rs77463367	7	87006034	C	G	0.348	0.047	1.6E-13	0.93	3200 Emilsson	54.82299683
DKK2	rs77571736	4	107864984	G	C	0.945	0.047	2.2E-83	0.954	3200 Emilsson	404.2666365
F7	rs776905	13	113781942	C	A	-1.104	0.060305	9.164E-65	0.112839	997 Suhre	335.14771
FGL1	rs7815429	8	17737357	T	C	-0.446	0.025	3.3E-70	0.313	3200 Emilsson	318.2656
TXNDC15	rs78165052	5	134250596	C	T	-0.307	0.036	3.6E-17	0.875	3200 Emilsson	72.72299383
NPNT	rs78213340	4	106819613	T	C	0.314	0.049	1.7E-10	0.93	3200 Emilsson	41.06455643
PLG	rs783150	6	161226939	T	C	-0.5174	0.065669	8.7E-15	0.113568	995 Suhre	62.07732135
NT5C	rs78625720	17	73140941	A	G	-0.7529	0.0719	1.2E-25	0.029536	3301 Sun	109.6520647
LRPAP1	rs78770234	4	3496683	A	G	-0.6821	0.0688	3.6E-23	0.032618	3301 Sun	98.29223778
C1QC	rs78865058	1	22944209	A	G	1.0754	0.0603	4.3E-71	0.041707	3301 Sun	318.0573528
MBL2	rs7899547	10	54536839	G	T	0.9477	0.0202	1E-200	0.65277	3301 Sun	2201.096192
ACP5	rs79061565	19	11698659	G	C	-0.4845	0.0364	1.6E-40	0.122794	3301 Sun	177.1678013
ITIH5	rs7909223	10	7700709	G	A	0.3222	0.0286	2E-29	0.747691	3301 Sun	126.9167685
PNLIPRP2	rs7910135	10	118398046	C	A	-0.969	0.018	1E-200	0.493	3200 Emilsson	2898.027778
VWC2	rs79259707	7	49812564	C	A	0.34	0.035	1.3E-22	0.868	3200 Emilsson	94.36734694
HPX	rs7935957	11	6450200	A	T	-0.252	0.022	5.06E-30	0.788	6861 Yao	131.2066116
PDGFD	rs7950273	11	104031598	G	C	-0.2749	0.0269	1.4E-24	0.287969	3301 Sun	104.4347231
RELT	rs7952686	11	73128503	T	C	0.4125	0.0292	3.1E-45	0.204256	3301 Sun	199.5640012
PLXNC1	rs7972001	12	94623502	T	C	-1.005	0.122632	7.773E-16	0.033736	993 Suhre	67.1621362
REG4	rs79795228	1	120359286	A	C	0.7938	0.0995	1.4E-15	0.015404	3301 Sun	63.64672003
CLN5	rs7996555	13	77562492	C	T	0.35	0.055	1.5E-10	0.946	3200 Emilsson	40.49586777

IGDCC4	rs8034057	15	65789430	G	A	0.344	0.042	3.5E-16	0.905	3200	Emilsson	67.08390023
CTRB1	rs8051363	16	75255217	G	A	0.6471	0.0242	1.6E-157	0.704343	3301	Sun	715.0099208
SHMT1	rs8067462	17	18263571	C	A	-0.3	0.025	1E-31	0.607	3200	Emilsson	144
SCARF1	rs8071756	17	1574342	G	A	0.5897	0.049427	9.358E-31	0.223671	997	Suhre	142.3449905
PYY	rs8074783	17	42028989	C	A	0.157	0.026	1.2E-09	0.641	3200	Emilsson	36.46301775
CD300E	rs8081669	17	72614611	G	A	0.27	0.025	4.2E-27	0.551	3200	Emilsson	116.64
APOF	rs808919	12	56647911	C	G	0.321	0.04	6.9E-16	0.903	3200	Emilsson	64.400625
APMAP	rs8125909	20	24975835	C	A	0.2967	0.0363	2.8E-16	0.132064	3301	Sun	66.8069804
ESD	rs8192888	13	47362384	C	G	-0.8063	0.0404	9.8E-89	0.093911	3301	Sun	398.3186023
C1QTNF3	rs840390	5	34018623	G	A	0.203	0.037	2.8E-08	0.868	3200	Emilsson	30.10153397
SHBG	rs858519	17	7531965	T	C	-0.214	0.024	2.3E-18	0.474	3200	Emilsson	79.50694444
CASP3	rs870825	4	185588045	G	A	-0.3955	0.058156	1.8E-11	0.156784	995	Suhre	46.24902438
CHIT1	rs872583	1	203184766	C	T	-1.0982	0.0247	1E-200	0.20154	3301	Sun	1976.828402
PATE4	rs875500	11	125698654	A	T	-0.4819	0.0262	1E-75	0.719869	3301	Sun	338.3072228
OXT	rs877172	20	3049890	T	G	-0.669	0.024	5.6E-156	0.66	3200	Emilsson	777.015625
SPON2	rs878323	4	1169813	T	G	-0.213	0.026	1.8E-16	0.687	3200	Emilsson	67.11390533
TNFRSF11A	rs884205	18	60054857	C	A	-0.2235	0.0292	2E-14	0.756399	3301	Sun	58.5853936
ALDH3A1	rs887241	17	19645938	C	A	0.2421	0.0259	7.8E-21	0.661635	3301	Sun	87.3755758
PLXNA1	rs891762	3	126739012	G	T	-0.182	0.027	9.6E-12	0.318	3200	Emilsson	45.43758573
PKDCC	rs893812	2	42303114	C	T	-0.236	0.027	5.6E-18	0.731	3200	Emilsson	76.4005487
CST3	rs911119	20	23612737	T	C	0.393	0.022	6.66E-73	0.779	6861	Yao	319.1095041
FAM20A	rs929477	17	66655816	A	G	-0.3717	0.0417	5.1E-19	0.093705	3301	Sun	79.4534962
PRSS57	rs9304936	19	689590	G	C	0.599	0.026	7.5E-107	0.715	3200	Emilsson	530.7707101
LGALS3	rs9323280	14	55801687	A	C	0.77	0.046349	5.6E-62	0.87	3394	Folkersen	275.9958726
CTGF	rs9388953	6	132297509	G	A	0.353	0.03	8.7E-32	0.789	3200	Emilsson	138.4544444
PF4V1	rs941758	4	74718941	A	C	-0.4937	0.0253	6.6E-85	0.708177	3301	Sun	380.7897171
WARS	rs941923	14	100813077	C	T	0.255	0.029	6.6E-18	0.766	3200	Emilsson	77.31866825
GNMT	rs9471987	6	42944140	A	G	0.4	0.024	2.4E-61	0.402	3200	Emilsson	277.7777778
B3GLCT	rs9544399	13	31885907	A	G	0.278	0.031	1.6E-19	0.791	3200	Emilsson	80.42039542
DLL1	rs959025	6	170588654	T	C	0.1911	0.0248	1.3E-14	0.415638	3301	Sun	59.37696735
POSTN	rs962462	13	38089171	A	G	0.244	0.025	8.6E-23	0.714	3200	Emilsson	95.2576
RARRES2	rs9640161	7	150045910	A	C	0.3473	0.041771	3.049E-16	0.370821	987	Suhre	69.12786877
APOA5	rs964184	11	116648917	C	G	0.2625	0.0363	4.9E-13	0.868979	3301	Sun	52.29321768
ST3GAL1	rs9643300	8	134503148	T	C	-0.2571	0.0246	1.4E-25	0.562654	3301	Sun	109.2279893
PCOLCE	rs9801017	7	100236202	A	G	0.2113	0.0254	1E-16	0.635533	3301	Sun	69.20405791

RAB6B	rs9813363	3	133604743	G	A	0.278	0.032	1.2E-17	0.825	3200	Emilsson	75.47265625
ALCAM	rs9830049	3	105284045	C	T	-0.306	0.0374	2.8E-16	0.120272	3301	Sun	66.94214876
DCBLD2	rs9864010	3	98678173	A	G	-0.6199	0.0536	6.6E-31	0.054612	3301	Sun	133.7561296
SPATA20	rs9890200	17	48624523	C	A	-0.2532	0.0252	8.7E-24	0.375996	3301	Sun	100.9546485
MXRA7	rs9900613	17	74674857	T	C	-0.229	0.0247	1.9E-20	0.430519	3301	Sun	85.9561704
CCL14	rs9903158	17	34312337	C	T	-1.0813	0.0499	3.5E-104	0.05615	3301	Sun	469.5602387
CCL18	rs9904601	17	34372006	A	G	0.8634	0.059557	2.482E-43	0.116968	996	Suhre	210.1667478
C1QL1	rs9915692	17	43034207	A	G	-0.279	0.023	3.4E-32	0.463	3200	Emilsson	147.147448
NTRK3	rs9944243	15	88514162	T	G	-0.221	0.035	5.2E-10	0.879	3200	Emilsson	39.87020408
CHST9	rs9952639	18	24709604	C	G	0.3331	0.0263	7.2E-37	0.31788	3301	Sun	160.4123379
LRRC4C	rs998447	11	40310789	A	C	-0.137	0.024	2.2E-08	0.538	3200	Emilsson	32.58506944
NAAA	rs9996608	4	76848231	T	C	-0.5485	0.0257	3.9E-101	0.300448	3301	Sun	455.4985692

Supplementary Table S2 Instrumental variables for the external validation by MR analysis

Exposure	SNP	Chr	Pos	Effect allele	Other allele	Eaf	Beta	Pval	Se	Samplesize	F statistics
UGDH	rs10008031	4	39535532	A	G	0.4274	-0.3	1E-200	0.008305036	35559	1304.77
HAPLN1	rs10039191	5	83723226	G	C	0.3347	0.11	6.16595E-38	0.00854321	35559	165.77
BTNL8	rs10068582	5	181005290	C	G	0.1126	0.17	2.95121E-38	0.013145191	35559	167.24
FGL1	rs10105500	8	17560162	T	A	0.0043	-0.43	1.02329E-13	0.057812327	35559	55.32
CPQ	rs10107707	8	97025855	T	C	0.0356	0.46	9.7724E-99	0.021811016	35559	444.77
DPT	rs1018454	1	168728523	A	C	0.4485	-0.34	1E-200	0.008838652	35559	1479.66
TTL	rs10194022	2	112479304	T	C	0.1591	0.08	5.12861E-13	0.011077499	35559	52.15
RAB6B	rs10212397	3	133888296	A	G	0.1757	-0.26	9.5499E-135	0.010524366	35559	610.28
ERAP1	rs1021717	5	96704191	T	G	0.0202	0.2	2.63027E-19	0.022263805	35559	80.69
SHH	rs10225292	7	156380544	C	T	0.348	-0.09	2.18776E-26	0.008467514	35559	112.97
CXCL12	rs1023264	10	44398308	C	T	0.2583	0.14	7.07946E-54	0.009059085	35559	238.82
GPNMB	rs10250602	7	23264082	C	T	0.3292	-0.22	1.0471E-135	0.008873205	35559	614.7
ASL	rs10255397	7	66332421	C	T	0.3888	-0.12	2.39883E-45	0.008491136	35559	199.71
MAGI2	rs10260483	7	79470338	A	G	0.4991	0.23	3.2359E-161	0.008500849	35559	731.99
TNFAIP8	rs1035376	5	119312555	G	A	0.1592	-0.22	3.31131E-92	0.01080202	35559	414.77
CILP2	rs10402308	19	19546691	A	G	0.2012	-0.07	2.51189E-10	0.011065005	35559	40.02
ACP5	rs10403399	19	11595843	G	C	0.281	0.24	5.4954E-140	0.009528548	35559	634.37
PSG5	rs10403905	19	43133313	C	T	0.2996	0.43	1E-200	0.011178295	35559	1479.66
FBLN1	rs1040402	22	45451084	A	G	0.1909	-0.16	7.94328E-54	0.010358214	35559	238.59
JUND	rs10406080	19	18291332	C	G	0.3487	0.06	6.76083E-13	0.008351676	35559	51.61
MIA	rs10407351	19	40743470	C	T	0.4846	0.06	1.47911E-13	0.008120153	35559	54.59
SIGLEC5	rs10408866	19	51668879	T	C	0.1696	0.2	3.16228E-75	0.010897796	35559	336.79
ELANE	rs10409474	19	850733	G	C	0.1391	0.45	1E-200	0.012334629	35559	1330.91
ITIH1	rs1042779	3	52786995	G	A	0.3891	-0.51	1E-200	0.013257978	35559	1479.66
SAA1	rs10430893	11	18259448	T	C	0.0694	-0.75	1E-200	0.019497026	35559	891.08
SAA2	rs10430893	11	18259448	T	C	0.0694	-0.6	1E-200	0.015795736	35559	891.08
SAA4	rs10430893	11	18259448	T	C	0.0694	-0.49	8.3176E-196	0.016414418	35559	891.08
EDIL3	rs10434639	5	83914528	G	A	0.353	-0.06	8.51138E-14	0.008040565	35559	55.68
MET	rs10435378	7	116785439	G	A	0.4402	-0.13	3.38844E-55	0.008307376	35559	244.87
HTATIP2	rs10437608	11	20364060	G	A	0.4908	-0.55	1E-200	0.014297819	35559	1479.66
ARHGEF25	rs10437954	12	57610139	G	A	0.1156	0.18	1.38038E-48	0.012288078	35559	214.56
HDHD3	rs1043836	9	113373918	C	T	0.3704	-0.18	9.7724E-100	0.008491001	35559	449.37
AOC1	rs10452848	7	150826456	G	A	0.4952	0.76	1E-200	0.019756986	35559	1479.66

LUM	rs10459147	12	91015895 T	C	0.0302	-0.18	3.38844E-14	0.023738735	35559	57.49
ECHS1	rs10466126	10	133373302 A	G	0.2527	0.06	9.12011E-11	0.00925803	35559	42
KL	rs10467359	13	32955126 G	A	0.0403	-0.32	6.91831E-53	0.020906144	35559	234.28
ENPP5	rs1047153	6	46161008 C	T	0.34	0.72	1E-200	0.018717145	35559	1479.66
GZMK	rs10471928	5	55002903 T	C	0.4367	-0.14	1.58489E-69	0.007943282	35559	310.62
TNFSF14	rs1047286	19	6713251 A	G	0.2407	-0.07	9.54993E-14	0.00939978	35559	55.45
MCEMP1	rs1047286	19	6713251 A	G	0.2407	-0.06	1.44544E-11	0.008884577	35559	55.45
KLK11	rs1048328	19	51024108 A	G	0.0643	-1.48	1E-200	0.038474131	35559	1479.66
SNPH	rs1048621	20	1312402 A	G	0.2525	-0.07	3.23594E-15	0.00888161	35559	62.11
CRNN	rs10494275	1	152419091 A	G	0.0813	-0.23	5.12861E-59	0.014198441	35559	262.39
CFHR4	rs10494745	1	196918327 A	G	0.1648	-0.97	1E-200	0.025216153	35559	1479.66
BDNF	rs10501089	11	27767312 T	C	0.0706	0.16	6.16595E-24	0.015858515	35559	101.79
SERPINE1	rs1050955	7	101139179 A	G	0.1872	-0.07	3.31131E-11	0.010554859	35559	43.98
LIPN	rs10509554	10	88766035 T	C	0.3239	0.78	1E-200	0.020276907	35559	1479.66
IFIT3	rs10509571	10	89332801 A	T	0.2638	-0.09	7.4131E-24	0.008936446	35559	101.42
COL6A1	rs1053312	21	46003475 A	G	0.3526	-1.23	1E-200	0.031975122	35559	1479.66
ABO	rs1053878	9	133256264 A	G	0.0607	-0.53	4.16869E-50	0.035608006	35559	221.53
GDF15	rs1058587	19	18388612 G	C	0.2426	0.45	1E-200	0.011698215	35559	1479.66
HNRNPAB	rs1059367	5	178209198 T	C	0.0796	-0.13	5.37032E-18	0.015037217	35559	74.74
APOC1	rs1064725	19	44919304 G	T	0.07	-0.1	5.01187E-10	0.016080448	35559	38.67
CD46	rs10746399	1	207770727 T	C	0.4526	0.24	3.1623E-189	0.00817983	35559	860.81
DPP7	rs10747049	9	137114298 G	C	0.2361	-0.48	1E-200	0.012478097	35559	1479.66
MSMP	rs10758322	9	35776193 T	C	0.4183	0.06	2.63027E-13	0.008205593	35559	53.46
C10orf54	rs10762477	10	71771312 G	A	0.1548	0.36	1E-200	0.011069263	35559	1479.66
CALCB	rs10766205	11	15070774 G	A	0.2753	-0.25	6.6069E-179	0.008765759	35559	813.35
SAA1	rs10766463	11	18230746 G	A	0.4535	0.07	7.24436E-18	0.008129163	35559	57.81
SAA2	rs10766463	11	18230746 G	A	0.4535	0.06	2.88403E-14	0.007891185	35559	57.81
FJX1	rs10768174	11	36057706 G	A	0.405	0.18	3.0903E-103	0.008343021	35559	465.45
PSMD9	rs10770186	12	121923506 A	G	0.4507	-0.12	1.47911E-48	0.008194678	35559	214.42
PLEKHA1	rs10788274	10	122301287 G	A	0.4337	0.28	1E-200	0.007942153	35559	1242.84
CXCL12	rs10793518	10	44015012 A	G	0.2233	-0.08	2.0893E-14	0.010464343	35559	58.44
APOA1BP	rs10796961	1	156586529 G	A	0.0194	-0.54	1.8197E-79	0.028608765	35559	356.26
NUDT2	rs10814104	9	34360289 T	C	0.2089	-0.3	1E-200	0.009748812	35559	946.92
ROR2	rs10820918	9	91924171 G	A	0.3138	0.15	9.54993E-67	0.00869104	35559	297.86
HEBP1	rs10845710	12	13182736 A	G	0.3947	-0.07	1.09648E-15	0.008733028	35559	64.25

QSOX2	rs10858248	9	136216478	A	G	0.4643	0.34	1E-200	0.008838652	35559	1479.66
OLFM1	rs10858334	9	135097939	G	C	0.1244	0.14	2.18776E-31	0.012012979	35559	135.81
CR1	rs10863341	1	207499739	A	T	0.26	-0.2	1.04713E-94	0.00968682	35559	426.26
COL2A1	rs10875723	12	48023754	G	A	0.3488	-0.7	1E-200	0.018197224	35559	1479.66
PPP1R1A	rs10876568	12	54590778	C	G	0.1877	0.06	3.98107E-10	0.009592682	35559	39.12
CNTN1	rs10879122	12	40745433	T	C	0.1517	-0.14	5.7544E-13	0.019427773	35559	51.93
RBP4	rs10882283	10	93601207	C	A	0.3575	-0.08	2.29087E-22	0.008223697	35559	94.63
FAM213A	rs10887871	10	80436305	G	A	0.4421	-0.09	4.57088E-32	0.007635723	35559	138.92
ANGPTL3	rs10889352	1	62633352	C	T	0.3377	-0.24	6.0256E-175	0.008510959	35559	795.14
CNTN5	rs10892747	11	99065109	A	G	0.308	0.13	1.04713E-52	0.008508122	35559	233.45
CXCL12	rs10900029	10	44366772	A	G	0.2198	-0.07	1.94984E-11	0.01043261	35559	45.02
CHST15	rs10901820	10	124286364	G	C	0.3904	-0.07	6.60693E-18	0.008119215	35559	74.33
TSTD1	rs10908821	1	161038745	G	C	0.1026	0.49	1E-200	0.013271404	35559	1363.12
CFHR3	rs10922098	1	196695521	C	T	0.4001	0.11	1.1749E-41	0.008135464	35559	182.81
OSMR	rs10941412	5	38919056	A	G	0.1948	-0.16	6.0256E-50	0.010767427	35559	220.8
CNTFR	rs10972159	9	34593088	A	G	0.0311	-0.56	8.3176E-125	0.02356734	35559	564.59
CCL21	rs10972211	9	34729993	A	G	0.1471	0.15	1.8197E-40	0.011262971	35559	177.36
GSN	rs10985196	9	121270766	A	C	0.2054	-0.14	7.94328E-48	0.009635936	35559	211.08
VPS26A	rs10998638	10	69201349	C	G	0.2382	-0.18	2.45471E-84	0.009250314	35559	378.62
DKK3	rs11022114	11	12017327	A	G	0.3333	0.33	1E-200	0.008654183	35559	1453.96
MPPED2	rs11031140	11	30586586	A	G	0.1785	-0.16	2.5704E-53	0.010409358	35559	236.25
RRM1	rs11031142	11	4153145	C	T	0.4383	0.06	1.20226E-11	0.008849637	35559	45.96
PTHLH	rs11049365	12	28138401	A	C	0.2706	0.12	7.24436E-43	0.008743498	35559	188.35
NTF3	rs11063675	12	5437300	T	C	0.0112	-0.3	1.07152E-14	0.038807482	35559	59.76
RGMA	rs11074135	15	93066231	T	A	0.3231	-0.17	4.36516E-86	0.008645127	35559	386.66
SERPINF2	rs11078596	17	1714968	T	C	0.2182	-0.17	1.51356E-68	0.009716022	35559	306.12
STX8	rs11078801	17	9433928	C	G	0.2115	0.07	2.29087E-12	0.00997787	35559	49.21
WFIKKN2	rs11079936	17	50830473	T	C	0.2897	0.53	1E-200	0.013777898	35559	1479.66
C3	rs11085197	19	6713164	C	G	0.2405	-0.1	6.45654E-28	0.00913025	35559	119.95
DNAJB1	rs11085896	19	14541074	A	C	0.4155	0.05	1.86209E-10	0.007846455	35559	40.6
WISP2	rs11086936	20	44703166	G	C	0.3357	0.23	1.1749E-147	0.008887822	35559	669.64
OLFM1	rs11103524	9	134779725	T	C	0.165	-0.08	3.0903E-13	0.01097333	35559	53.15
FCN2	rs11103563	9	134886852	G	A	0.0991	-0.66	1E-200	0.017157383	35559	1479.66
FCN1	rs11103571	9	134905553	A	G	0.2458	0.3	1E-200	0.009496137	35559	997.99
NRK1	rs11144225	9	75092384	T	A	0.3712	-0.16	2.88403E-79	0.008487619	35559	355.34

PTPN9	rs111647176	15	75459420	A	G	0.2739	-0.07	1.62181E-15	0.008785914	35559	63.47
LRIG3	rs11172841	12	58958650	C	A	0.2331	0.28	7.7625E-135	0.011330092	35559	610.7
CDKN1B	rs111909987	12	12699174	G	C	0.0993	0.12	1.41254E-19	0.013257739	35559	81.92
LTBP4	rs112009052	19	40593595	A	T	0.016	-0.25	3.23594E-14	0.032944524	35559	57.58
VWA1	rs112030392	1	1425135	C	T	0.066	0.12	2.88403E-13	0.016439024	35559	53.28
GPX7	rs11205979	1	52610744	T	C	0.1349	0.71	1E-200	0.018457184	35559	1479.66
CADM1	rs11215406	11	115194362	C	T	0.3163	0.15	1.14815E-68	0.008565259	35559	306.67
UBASH3B	rs11218735	11	122652542	A	G	0.2852	-0.13	3.46737E-49	0.008818385	35559	217.31
LILRA6	rs112312277	19	54202976	T	G	0.0663	0.56	1E-200	0.016361612	35559	1171.38
FAM171B	rs1123176	2	186742744	C	T	0.1566	-0.19	8.70964E-67	0.01100526	35559	298.05
MAN1C1	rs11247595	1	25682168	T	C	0.4547	0.19	2.7542E-117	0.008252681	35559	530.02
NAGLU	rs112629880	17	42463743	T	C	0.0365	1.32	1E-200	0.034314765	35559	1479.66
HDGF	rs11264535	1	156752632	C	G	0.2921	-0.08	3.89045E-18	0.009214521	35559	75.37
GPC1	rs1126920	2	240466062	T	C	0.0983	0.63	1E-200	0.016377502	35559	1479.66
ASPH	rs112800350	8	61779251	T	C	0.0357	-0.24	1.38038E-30	0.020876676	35559	132.15
LILRB1	rs112988186	19	54637391	C	T	0.0578	0.53	1E-200	0.015791368	35559	1126.39
SFTPB	rs1130866	2	85666618	A	G	0.4792	-0.4	1E-200	0.010398414	35559	1479.66
MST1	rs1131095	3	49676792	C	T	0.3076	-1.23	1E-200	0.031975122	35559	1479.66
SDSL	rs113152874	12	113429268	C	G	0.0175	0.78	4.2658E-147	0.030199429	35559	667.06
CCL4L1	rs113308217	17	36467153	C	T	0.0278	-0.15	1.44544E-09	0.024792011	35559	36.6
AIF1L	rs113409341	9	131059144	C	T	0.3038	0.54	1E-200	0.014037859	35559	1479.66
TP53I3	rs1134516	2	24119662	A	G	0.1212	-0.53	1E-200	0.013777898	35559	1479.66
TNFSF13B	rs113469631	13	108261424	G	T	0.0266	-0.19	2.81838E-14	0.024978968	35559	57.85
KLRB1	rs1135816	12	9598073	G	A	0.3782	-0.23	5.3703E-177	0.008108405	35559	804.56
DCXR	rs113680823	17	82037444	G	A	0.1779	0.12	4.67735E-28	0.010927213	35559	120.59
CHIT1	rs113689597	1	203230276	C	T	0.0625	0.85	1E-200	0.022096629	35559	1479.66
ENTPD5	rs113768127	14	74001136	C	T	0.0547	-0.91	1E-200	0.023656391	35559	1479.66
TNC	rs1138545	9	115073620	T	C	0.1731	1.19	1E-200	0.030935281	35559	1479.66
CCL4L1	rs113877493	17	36443746	T	C	0.0853	-0.13	1.99526E-17	0.015304797	35559	72.15
GPC5	rs114196736	13	91445191	T	C	0.0265	0.36	2.95121E-48	0.024663245	35559	213.05
CBLN1	rs114398277	16	49461811	A	G	0.0331	-0.43	1.51356E-72	0.023870355	35559	324.49
STAMBPL1	rs1147604	10	88860435	A	G	0.4917	0.1	7.24436E-39	0.007668703	35559	170.03
FSTL1	rs1147707	3	120450401	T	C	0.3745	-0.15	1.58489E-70	0.008448463	35559	315.21
FCGR2A	rs115264949	1	161532142	A	G	0.0259	0.16	9.54993E-13	0.022418878	35559	50.93
ADAMTSL2	rs11534419	9	133523101	T	C	0.3929	0.11	1.1749E-37	0.008576429	35559	164.49

AES	rs11539938	19	3062859	C	T	0.4359	-0.05	5.37032E-11	0.007621614	35559	43.03
DCI	rs11541763	16	2251519	C	G	0.1648	-0.19	4.36516E-70	0.010735837	35559	313.19
WVOX	rs11545029	16	78386878	G	A	0.3826	0.07	6.30957E-18	0.008114254	35559	74.42
RFK	rs11548955	9	76394450	A	G	0.2622	-0.06	2.04174E-11	0.008951207	35559	44.93
VWA1	rs115503338	1	1434243	A	G	0.0239	-1.24	1E-200	0.032235083	35559	1479.66
TSSC4	rs11555995	11	2402315	G	A	0.1251	0.08	8.51138E-11	0.012324238	35559	42.13
CHI3L2	rs11556868	1	111235703	T	C	0.1316	0.09	2.13796E-13	0.012261792	35559	53.87
NMRAL1	rs11557236	16	4469438	A	G	0.1018	-0.87	1E-200	0.02261655	35559	1479.66
CCT5	rs11557652	5	10256060	T	A	0.0339	-0.15	1.20226E-11	0.022124092	35559	45.96
PLXNC1	rs115651556	12	94220122	A	G	0.0148	-2.04	1E-200	0.05303191	35559	1479.66
NTNG1	rs115668827	1	107135646	C	G	0.0672	1.32	1E-200	0.034314765	35559	1479.66
MMP7	rs11568819	11	102530902	A	G	0.0663	0.57	1E-200	0.016841031	35559	1145.48
TNFRSF17	rs11570136	16	11964975	A	T	0.3544	-0.13	1.77828E-53	0.008444501	35559	236.98
PLA2G2A	rs11573156	1	19979653	C	G	0.2561	0.77	1E-200	0.020016946	35559	1479.66
PKLR	rs115736167	1	155296818	G	C	0.0159	-0.21	1.12202E-09	0.034477051	35559	37.1
ITLN1	rs11578752	1	160875699	C	T	0.345	0.08	1.07152E-17	0.00933926	35559	73.37
SLAMF7	rs11581248	1	160750284	T	C	0.1271	-1.27	1E-200	0.033014964	35559	1479.66
FCRL4	rs11582663	1	157589332	T	C	0.1715	-1.13	1E-200	0.029375519	35559	1479.66
RPS6KA1	rs11589734	1	26534508	G	A	0.4519	-0.1	4.2658E-54	0.00645715	35559	239.82
PCSK9	rs11591147	1	55039974	T	G	0.0121	-0.89	3.9811E-117	0.038684141	35559	529.29
DKK1	rs1159798	10	52652733	A	C	0.211	-0.06	1.51356E-10	0.009369141	35559	41.01
LYVE1	rs116055980	11	10597218	G	A	0.0491	0.42	5.1286E-106	0.019205281	35559	478.23
SERPING1	rs11606706	11	57616102	T	G	0.2421	-0.68	1E-200	0.017677303	35559	1479.66
GREM2	rs116135446	1	240794633	T	C	0.0367	0.14	5.49541E-11	0.021351697	35559	42.99
NMB	rs11633788	15	84761911	A	T	0.3321	-0.14	4.16869E-61	0.008488817	35559	271.98
STARD5	rs11634869	15	81274272	T	A	0.2487	-0.21	1.9953E-116	0.009155588	35559	526.07
DCTPP1	rs11640950	16	30414680	A	T	0.2357	-0.06	6.91831E-10	0.009727713	35559	38.04
HYAL1	rs116482870	3	50302191	T	C	0.0477	-0.24	1.44544E-36	0.019002593	35559	159.5
CDH5	rs11649312	16	66395395	G	A	0.3145	-0.15	2.75423E-69	0.008525791	35559	309.52
COL6A3	rs11677932	2	237315312	A	G	0.2936	-0.07	1.51356E-14	0.009107017	35559	59.08
IL20RA	rs1167852	6	137017711	A	T	0.2638	0.06	6.0256E-12	0.008722143	35559	47.32
NAGK	rs11680831	2	71065392	C	T	0.3755	-0.17	2.63027E-96	0.008163706	35559	433.61
INHBB	rs11682902	2	120461280	A	G	0.0952	0.08	1.38038E-09	0.013206223	35559	36.69
CEL	rs116842520	9	133078678	A	G	0.0588	0.21	2.69153E-32	0.017749627	35559	139.97
MMAB	rs116869611	12	109446591	T	C	0.1052	0.09	2.5704E-13	0.012303186	35559	53.51

TXNL4B	rs116891509	16	72071661 T	C	0.0759	0.25	2.63027E-60	0.015261933	35559	268.31
CLEC11A	rs116924815	19	50727476 T	C	0.0264	0.94	1E-200	0.024941518	35559	1479.66
PTEN	rs117002784	10	88147290 T	C	0.0383	0.13	2.88403E-10	0.020618924	35559	39.75
CBR3	rs11702672	21	36157012 A	G	0.1442	0.31	1.7783E-155	0.011670008	35559	705.6
RETN	rs117029024	19	7613602 A	G	0.0332	-0.59	3.1623E-138	0.023575188	35559	626.28
VOPP1	rs117042408	7	55555698 A	G	0.02	-0.29	4.2658E-23	0.029300168	35559	97.96
POLI	rs117050326	18	54237200 C	G	0.0172	-0.27	1.07152E-17	0.031520002	35559	73.37
TCN2	rs117051272	22	30609233 A	G	0.0175	-0.48	3.01995E-40	0.036144309	35559	176.35
PCDH9	rs117087958	13	67231160 A	C	0.0817	-0.27	2.81838E-70	0.015234992	35559	314.06
TDGF1	rs11710264	3	46620089 C	T	0.4776	-0.14	2.6915E-109	0.006303196	35559	493.3
KIAA1467	rs117172138	12	13040880 T	C	0.0201	0.52	1.12202E-78	0.027690526	35559	352.63
KLK14	rs117229324	19	51082721 T	C	0.0258	-0.59	1.9055E-103	0.027318267	35559	466.42
SPON2	rs11731643	4	1169862 C	T	0.1636	0.13	3.63078E-24	0.012819153	35559	102.84
PSG7	rs117338918	19	42873169 G	C	0.0075	0.3	5.88844E-11	0.045825716	35559	42.85
ENPEP	rs11735606	4	110517862 G	C	0.2888	0.4	1E-200	0.010398414	35559	1479.66
CA10	rs117399000	17	52136371 A	G	0.0268	-0.56	6.6069E-106	0.025620586	35559	477.72
C6	rs11741451	5	40997357 G	A	0.3277	-0.06	1.1749E-12	0.008440849	35559	50.52
ARSB	rs11743362	5	78880898 A	G	0.4951	-0.13	5.37032E-62	0.007823956	35559	276.06
GNPDA1	rs11745713	5	142084639 G	C	0.1535	-0.07	0.000000001	0.011457734	35559	37.32
PLG	rs11751347	6	160671406 T	C	0.0795	-0.36	9.5499E-125	0.015154135	35559	564.31
OAF	rs117554512	11	120227620 T	C	0.091	0.2	1.38038E-26	0.018741111	35559	113.88
MMP8	rs117557731	11	102676761 G	A	0.0452	0.26	5.01187E-40	0.019634329	35559	175.34
ELMO1	rs11767227	7	37433195 G	C	0.2701	-0.07	5.12861E-16	0.008633011	35559	65.74
CTSV	rs117724680	9	97144183 C	T	0.0484	0.27	5.62341E-47	0.018757494	35559	207.18
B4GALT6	rs117750096	18	31624513 G	T	0.0376	-1.1	1E-200	0.028595638	35559	1479.66
ENG	rs11794565	9	127838998 T	C	0.4398	0.15	1.04713E-73	0.008259367	35559	329.81
SEZ6L	rs117966464	22	26168192 T	G	0.0495	-0.17	5.01187E-20	0.018551332	35559	83.97
SIGLEC5	rs118005510	19	51638568 A	G	0.0084	0.98	2.6915E-132	0.040039977	35559	599.02
LGALS3	rs118083722	14	55129494 A	G	0.0889	-0.57	1E-200	0.01481774	35559	1479.66
TALDO1	rs118104171	11	776914 A	G	0.0452	0.12	6.16595E-11	0.018349582	35559	42.76
FAM3B	rs118132670	21	41346912 A	C	0.0529	-0.26	2.95121E-47	0.018007092	35559	208.47
TAGLN	rs11826038	11	116964682 G	A	0.0219	0.2	8.51138E-13	0.027961635	35559	51.16
C1QTNF9	rs11840418	13	24359488 T	C	0.2944	-0.21	3.4674E-128	0.008718598	35559	580.12
MDGA2	rs11846619	14	48400311 A	G	0.0412	0.77	1E-200	0.020016946	35559	1479.66
GNPTG	rs11865211	16	1352492 T	C	0.0193	-0.18	1.77828E-09	0.029915914	35559	36.2

SPINK2	rs11941268	4	56823077	T	C	0.0261	0.81	1E-200	0.025330853	35559	1022.46
CMBL	rs11948322	5	10306334	C	T	0.4095	-0.18	2.9512E-101	0.008425776	35559	456.35
VEGFA	rs11965885	6	43725357	G	T	0.4253	0.07	7.24436E-19	0.007890814	35559	78.69
EGFR	rs11977388	7	55164553	C	T	0.2355	0.09	1.94984E-20	0.009713924	35559	85.84
TAC1	rs11977936	7	97479644	C	T	0.0139	0.34	6.16595E-23	0.034480545	35559	97.23
PRDX1	rs12047498	1	45488960	T	C	0.2258	0.1	6.91831E-26	0.009504858	35559	110.68
EPHA10	rs12074120	1	37731729	G	T	0.2725	0.08	1.12202E-18	0.009068001	35559	77.83
GALNT16	rs12100668	14	69326758	G	A	0.4077	-0.17	7.24436E-91	0.008409653	35559	408.62
CD36	rs12113010	7	80590764	A	G	0.0579	0.25	3.16228E-44	0.017921618	35559	194.58
IL6R	rs12126142	1	154452980	A	G	0.4148	1.01	1E-200	0.026255995	35559	1479.66
SLAMF6	rs12137007	1	160493616	G	A	0.1765	-0.21	2.34423E-91	0.0103599	35559	410.87
CHI3L1	rs12141494	1	203182297	G	A	0.4428	1	1E-200	0.025996034	35559	1479.66
THBS2	rs12174547	6	169224627	T	C	0.2077	-0.22	9.7724E-111	0.009839243	35559	499.92
PREP	rs12192369	6	105329503	G	A	0.1404	-0.21	8.51138E-77	0.011322157	35559	344
PPIL1	rs12194408	6	36871822	G	C	0.0414	-1.32	1E-200	0.034314765	35559	1479.66
KLB	rs12233688	4	39411290	T	C	0.3676	0.06	1.1749E-13	0.008086708	35559	55.05
ASRGL1	rs12275541	11	62322339	A	G	0.3159	-0.21	5.1286E-132	0.008589229	35559	597.73
THYN1	rs12278812	11	134252402	C	A	0.2078	-0.06	1.12202E-10	0.009303012	35559	41.59
RELT	rs12293998	11	73302315	G	T	0.288	0.06	1.1749E-11	0.008845298	35559	46.01
ATP1B2	rs12325768	17	7645550	A	G	0.3335	-0.18	1.65959E-26	0.016894113	35559	113.51
ALPPL2	rs12328730	2	232386656	T	C	0.3556	0.05	1.07152E-10	0.007744133	35559	41.68
QSOX2	rs12338076	9	136229894	C	A	0.3381	-0.09	9.54993E-18	0.010490436	35559	73.6
SFTPD	rs12357764	10	79995964	A	C	0.3518	0.53	1E-200	0.013777898	35559	1479.66
CDHR5	rs12360820	11	620927	A	C	0.1777	-0.07	2.5704E-11	0.010495866	35559	44.48
MANSC4	rs12370269	12	27771725	G	A	0.217	0.57	1E-200	0.01481774	35559	1479.66
BPNT1	rs12404566	1	220200137	A	T	0.197	0.06	1.07152E-10	0.00929296	35559	41.68
IGSF8	rs12408242	1	160092144	C	T	0.1798	0.16	7.24436E-56	0.010160906	35559	247.94
INHBC	rs12423654	12	57444367	T	C	0.4645	-0.06	6.76083E-13	0.008351676	35559	51.61
SERPINA1	rs1243167	14	94375304	A	G	0.2699	0.41	1E-200	0.010658374	35559	1479.66
ACAN	rs12441312	15	88710195	C	G	0.2058	0.09	4.0738E-21	0.009543305	35559	88.93
PLCG2	rs12445050	16	81837364	T	C	0.1003	0.18	1.31826E-43	0.012998792	35559	191.74
C1QL1	rs12452548	17	44811682	T	C	0.2224	-0.09	1.90546E-14	0.011754178	35559	58.62
SPOCK2	rs1245548	10	72086126	A	G	0.4586	0.19	1.0233E-116	0.008273153	35559	527.4
CD33	rs12459419	19	51225221	T	C	0.3497	-1.08	1E-200	0.028075717	35559	1479.66
CEACAM8	rs12459454	19	41759235	G	A	0.3212	-0.07	5.01187E-17	0.008346831	35559	70.33

IGFLR1	rs12459634	19	35739273	C	T	0.1415	-0.63	1E-200	0.016377502	35559	1479.66
LILRA6	rs12460589	19	54298694	T	C	0.0147	0.28	1.34896E-20	0.03009366	35559	86.56
KYNU	rs12477146	2	143036245	A	G	0.2079	-0.46	1E-200	0.011958176	35559	1479.66
ALPPL2	rs12478529	2	232421944	T	C	0.224	0.2	1.65959E-92	0.009803744	35559	416.15
SIRPB1	rs12480515	20	1558519	T	C	0.2501	0.92	1E-200	0.023916352	35559	1479.66
FAM3D	rs12493131	3	58664251	T	G	0.0747	-0.45	2.4547E-197	0.015015287	35559	898.12
ROBO1	rs12495133	3	78872370	A	C	0.4088	0.1	1.65959E-27	0.00920236	35559	118.08
FN1	rs1250258	2	215435462	C	T	0.3266	-0.18	2.138E-102	0.008377831	35559	461.59
FN1	rs1250259	2	215435759	T	A	0.3267	-0.16	6.30957E-81	0.008398016	35559	362.96
LEAP2	rs12515756	5	132903188	C	T	0.1644	0.4	1E-200	0.010853602	35559	1358.15
UST	rs12527307	6	148933158	C	A	0.0887	-0.11	2.29087E-13	0.015005548	35559	53.73
GFRAL	rs12529201	6	55401924	C	T	0.2648	0.14	5.88844E-55	0.008966581	35559	243.77
ZYX	rs12539742	7	143490004	A	G	0.2932	0.08	8.51138E-19	0.009036373	35559	78.37
GSTP1	rs1254123	11	67567341	C	T	0.4694	-0.13	1.41254E-56	0.008202048	35559	251.2
SCARA5	rs12548086	8	27862269	C	G	0.131	0.14	1.28825E-32	0.011771711	35559	141.43
GCLM	rs12563495	1	93919068	A	G	0.4367	-0.08	1.04713E-25	0.007632265	35559	109.86
HOMER2	rs1256430	15	82850720	A	G	0.1645	-0.09	3.38844E-16	0.011031263	35559	66.56
FJX1	rs12574547	11	36151539	G	A	0.3242	0.11	6.91831E-35	0.008927309	35559	151.82
MDGA2	rs12589514	14	47621214	G	A	0.2419	-0.1	7.94328E-25	0.009719623	35559	105.85
NAGPA	rs12599777	16	5029465	G	A	0.1822	-0.48	1E-200	0.012478097	35559	1479.66
CNP	rs12602950	17	41971811	G	A	0.2969	-0.08	1.12202E-19	0.008814045	35559	82.38
GCKR	rs1260326	2	27508073	T	C	0.3413	-0.09	5.7544E-25	0.008721384	35559	106.49
RAB31	rs12607866	18	9696477	C	T	0.2985	0.13	6.91831E-47	0.00904039	35559	206.77
NPTXR	rs12628473	22	38844712	G	A	0.0149	1.55	1E-200	0.040293853	35559	1479.66
PCOLCE2	rs12638256	3	142936448	A	G	0.4881	0.33	1E-200	0.00888525	35559	1379.32
DNAJB6	rs12668458	7	157352780	C	T	0.4385	0.05	2.75423E-10	0.007921399	35559	39.84
XXYLT1	rs12695049	3	195268211	C	T	0.467	-0.2	6.9183E-127	0.008346528	35559	574.15
UROD	rs12749939	1	45012761	T	C	0.2879	-0.27	1E-200	0.008595797	35559	986.58
ESAM	rs12792040	11	124754254	A	G	0.0963	-0.28	5.62341E-92	0.01376557	35559	413.72
SLITRK5	rs12877225	13	87995130	A	G	0.2563	-0.14	1.90546E-47	0.009675938	35559	209.34
DLK1	rs12881545	14	100709875	G	C	0.3898	-0.45	1E-200	0.011698215	35559	1479.66
KLC1	rs12884809	14	103628983	A	G	0.3519	0.09	1.34896E-24	0.008791348	35559	104.8
SERPINA3	rs12891214	14	94672092	T	C	0.4094	-0.12	3.54813E-42	0.008817795	35559	185.19
RNASE1	rs12897030	14	20814883	C	T	0.2965	-0.22	7.2444E-131	0.009038299	35559	592.44
AP1G2	rs12897422	14	23563818	A	G	0.1337	-0.14	9.12011E-31	0.012140327	35559	132.98

IVD	rs12902310	15	40423228	C	T	0.3621	0.11	3.23594E-41	0.008180679	35559	180.79
NPW	rs12921264	16	2020432	A	G	0.1837	-0.54	1E-200	0.014037859	35559	1479.66
SPHK1	rs12939873	17	76464066	T	C	0.324	-0.06	5.7544E-11	0.00916033	35559	42.9
LILRA2	rs12972210	19	54626202	A	G	0.0468	0.4	2.51189E-36	0.031780599	35559	158.41
COMP	rs12974746	19	18795739	G	A	0.0379	-0.54	1.6218E-134	0.021877259	35559	609.22
FCER2	rs12980031	19	7699550	G	T	0.2435	0.29	5.0119E-188	0.009915802	35559	855.29
REG1A	rs12990312	2	79094354	T	C	0.1099	-0.13	9.77237E-20	0.014299144	35559	82.65
GKN2	rs12990985	2	68944477	C	T	0.019	-0.56	4.7863E-79	0.029748984	35559	354.33
IL1RL1	rs13020553	2	102315366	G	C	0.4186	-0.43	1E-200	0.011178295	35559	1479.66
REG3A	rs13026790	2	79171490	C	T	0.1599	0.12	1.31826E-24	0.011719246	35559	104.84
PKDCC	rs13026869	2	42071416	A	G	0.2273	0.06	8.70964E-10	0.009785656	35559	37.59
PCNP	rs13060373	3	101631980	A	G	0.4863	-0.08	1.20226E-23	0.007981281	35559	100.46
CNTN4	rs13071423	3	2098694	A	C	0.1878	0.26	2.2909E-122	0.011052312	35559	553.37
CHL1	rs13077895	3	51395	G	A	0.3554	-0.23	6.166E-156	0.008645444	35559	707.71
BTD	rs13078881	3	15645186	C	G	0.0288	-1.36	1E-200	0.035354607	35559	1479.66
CFI	rs13117504	4	109737700	G	C	0.3832	0.2	3.0903E-124	0.008436506	35559	561.97
CPZ	rs13127468	4	8597931	A	C	0.4243	-0.07	5.37032E-17	0.008354929	35559	70.19
LAP3	rs13147018	4	17601722	G	A	0.1563	-0.07	2.0893E-10	0.011015591	35559	40.38
TGFBI	rs13159365	5	136053744	T	C	0.4358	-0.46	1E-200	0.011958176	35559	1479.66
HEXB	rs13164140	5	74734513	A	G	0.2706	0.27	7.9433E-197	0.009020961	35559	895.77
FAM172A	rs13165400	5	93755721	A	G	0.0957	0.1	1.34896E-12	0.014105978	35559	50.25
THBS4	rs13167730	5	80074424	T	G	0.0812	0.38	5.6234E-133	0.015485351	35559	602.14
UBLCP1	rs13171129	5	159306365	A	C	0.0304	-0.51	1.4454E-101	0.023835862	35559	457.78
HAVCR1	rs13173581	5	157042797	T	C	0.272	-0.37	1E-200	0.009618533	35559	1479.66
CHKB	rs131752	22	50584995	T	C	0.4071	-0.08	1.07152E-24	0.007797577	35559	105.25
FER	rs13178668	5	108771079	G	A	0.3821	0.08	1.38038E-19	0.008836039	35559	81.97
SPINK6	rs13179181	5	148196423	C	T	0.4885	0.27	1E-200	0.007718605	35559	1223.56
FSTL4	rs13183672	5	133197825	C	A	0.1972	-0.07	1.20226E-11	0.010324576	35559	45.96
LRRC32	rs1320646	11	76659003	T	C	0.2685	0.07	4.2658E-13	0.009659371	35559	52.51
TREML2	rs13207171	6	41198081	T	C	0.1494	0.76	1E-200	0.019756986	35559	1479.66
EGFR	rs13244925	7	55124563	A	C	0.4168	0.1	1.58489E-34	0.008160119	35559	150.17
APOL3	rs132631	22	36146146	A	C	0.1707	-1	1E-200	0.025996034	35559	1479.66
PTGES2	rs13283456	9	128122474	T	C	0.1824	-0.1	6.16595E-21	0.010652887	35559	88.11
PDLIM1	rs1328599	10	95294018	G	T	0.0575	0.13	4.16869E-14	0.017205736	35559	57.08
COL15A1	rs13296166	9	99049790	A	G	0.1018	0.22	2.29087E-58	0.013658951	35559	259.41

FAM19A5	rs133688	22	48371876	G	A	0.2661	-0.05	1.31826E-09	0.008243811	35559	36.78
EGLN1	rs1339891	1	231420649	T	C	0.1336	0.11	1.1749E-17	0.012857419	35559	73.19
SERPINE2	rs13412535	2	224010157	A	G	0.1938	-0.8	1E-200	0.020796828	35559	1479.66
ARHGAP25	rs13413887	2	68769536	A	G	0.2319	-0.17	1.04713E-75	0.009232967	35559	338.99
EFEMP1	rs1346790	2	55864736	T	C	0.2617	0.11	1.34896E-33	0.009106041	35559	145.92
ARF4	rs1354034	3	56815721	T	C	0.3812	-0.09	1E-25	0.008582733	35559	109.95
APOL1	rs136148	22	36256885	C	T	0.2486	-0.35	1E-200	0.009146314	35559	1464.26
FBLN1	rs136743	22	45532866	C	A	0.4453	0.06	1.44544E-14	0.007800035	35559	59.17
LILRB1	rs138131257	19	54572135	G	A	0.0659	-1.61	1E-200	0.041853615	35559	1479.66
MANF	rs1383251	3	51329409	G	A	0.1328	-0.09	3.0903E-13	0.012344997	35559	53.15
FLII	rs138865936	17	18261705	T	C	0.0243	0.25	1.02329E-21	0.026110963	35559	91.67
PAICS	rs138933625	4	56448446	G	C	0.0334	-0.19	6.0256E-19	0.021368575	35559	79.06
C1QC	rs139104615	1	22615055	T	C	0.0089	0.44	1.51356E-23	0.043997014	35559	100.01
POSTN	rs139240369	13	37472287	T	C	0.0268	-0.2	5.01187E-15	0.025553837	35559	61.25
MFAP4	rs139356332	17	19385973	C	G	0.0246	-0.65	1.7378E-130	0.026743524	35559	590.7
IGLL1	rs139571703	22	23573433	T	C	0.0329	-0.96	1E-200	0.024956193	35559	1479.66
PF4	rs1398015	4	73891519	T	C	0.0591	-0.15	5.62341E-18	0.017361197	35559	74.64
IL22	rs139977220	12	68267650	A	G	0.0523	0.13	1.54882E-12	0.018387432	35559	49.98
SIGLEC7	rs140185670	19	51142883	C	G	0.0856	-0.55	1E-200	0.015226974	35559	1304.59
PTGR1	rs140330169	9	111567336	T	C	0.0436	0.21	1.51356E-28	0.018947588	35559	122.83
ACP6	rs140566115	1	147654322	A	G	0.0262	-0.82	1E-200	0.021782916	35559	1417
PGLYRP2	rs140755383	19	15474182	A	C	0.1641	-0.35	1E-200	0.010872298	35559	1036.26
KPNA6	rs140904849	1	31977167	T	C	0.0279	0.18	8.70964E-14	0.024131504	35559	55.64
TFF3	rs140914768	21	42315734	T	C	0.0062	-0.35	6.91831E-13	0.048739458	35559	51.56
AP1G2	rs140983547	14	23565870	T	C	0.0102	-0.62	7.76247E-49	0.042213025	35559	215.71
F13B	rs1412635	1	197053918	A	G	0.4709	-0.34	1E-200	0.008838652	35559	1479.66
SCGB3A1	rs141351189	5	180601275	A	G	0.0253	0.31	1.04713E-32	0.026028088	35559	141.85
SF3B4	rs141494464	1	149875751	T	C	0.0864	-0.09	1.09648E-09	0.014766946	35559	37.14
POLM	rs141574506	7	44053918	C	T	0.0958	-0.14	1.02329E-24	0.013639848	35559	105.34
DPT	rs141588269	1	168843543	T	C	0.0261	0.24	4.89779E-20	0.02618302	35559	84.02
LILRA2	rs141795960	19	54572099	C	T	0.0659	0.8	1E-200	0.022662521	35559	1246.06
POLM	rs142059440	7	44074256	C	G	0.021	0.46	2.18776E-61	0.027826186	35559	273.26
LUM	rs142086573	12	90914869	T	C	0.0187	0.28	2.04174E-20	0.03023714	35559	85.75
NPTX1	rs142109116	17	80470474	T	C	0.0166	0.27	5.01187E-18	0.031202688	35559	74.87
VNN2	rs143098434	6	133138760	T	C	0.0096	-0.33	6.60693E-16	0.040853864	35559	65.24

ADIPOQ	rs143257534	3	186834099	T	C	0.0344	-0.64	1.8621E-154	0.024173398	35559	700.91
ENPP2	rs1433948	8	119694004	C	A	0.4227	-0.11	9.54993E-37	0.008687117	35559	160.33
CPNE1	rs143646210	20	35612055	A	G	0.0957	-1.08	1E-200	0.028075717	35559	1479.66
IGSF3	rs143770903	1	116577113	A	C	0.0193	0.27	1.58489E-19	0.029871423	35559	81.69
DTYMK	rs144303868	2	241680143	C	G	0.0601	0.16	6.91831E-20	0.017526708	35559	83.33
RCL	rs144767533	6	43218400	C	T	0.0924	-0.16	3.16228E-30	0.014005246	35559	130.51
PTGR1	rs144875739	9	111431329	A	G	0.0171	-1.02	1E-200	0.028219713	35559	1306.38
ADAM23	rs1448903	2	206444237	G	A	0.0981	0.63	1E-200	0.016377502	35559	1479.66
COMP	rs145122962	19	18795828	T	C	0.0157	-0.22	2.29087E-11	0.03290374	35559	44.7
IGFBP3	rs145188037	7	45914866	A	G	0.0176	1.03	1E-200	0.031150347	35559	1093.26
OVCA2	rs145234879	17	2042060	A	C	0.0089	0.41	8.70964E-21	0.043847137	35559	87.43
NME2	rs145372333	17	51149056	A	G	0.039	-0.35	2.51189E-63	0.020835456	35559	282.17
NPPA	rs145488887	1	11767739	C	T	0.0461	0.13	4.16869E-12	0.018755389	35559	48.04
APCS	rs146174215	1	159574733	C	A	0.031	-0.54	2.6915E-115	0.023660024	35559	520.87
PLAU	rs146287686	10	73937934	A	G	0.0177	-0.23	1.69824E-14	0.029980591	35559	58.85
PMM2	rs146544605	16	8900886	G	C	0.0349	-0.14	3.80189E-10	0.022357248	35559	39.21
CPN2	rs1466733	3	194400269	G	A	0.2322	0.11	9.77237E-30	0.009712293	35559	128.27
VIT	rs1468810	2	36766797	C	A	0.4048	0.36	1E-200	0.009358572	35559	1479.66
DSG2	rs147145691	18	31526091	T	C	0.0225	-0.32	5.49541E-31	0.02764498	35559	133.98
RNASE3	rs147307766	14	20917832	T	C	0.0351	0.76	1E-200	0.022255365	35559	1166.09
GRAP2	rs148328786	22	39946989	G	A	0.0481	0.15	1.14815E-15	0.01872686	35559	64.15
COL6A2	rs148337125	21	46132608	G	T	0.0473	0.32	2.88403E-63	0.019058861	35559	281.89
SULT1A3	rs148788997	16	30311847	C	G	0.1409	0.2	5.01187E-60	0.01223888	35559	267.03
VWA2	rs148990087	10	114251043	A	G	0.0375	-0.19	1.77828E-18	0.021663458	35559	76.92
LRIG3	rs1497237	12	58763470	C	T	0.3822	-0.06	2.29087E-11	0.008973747	35559	44.7
PIP	rs149884636	7	143041505	A	G	0.01	-1.14	8.7096E-177	0.040213628	35559	803.6
CAPN2	rs150394890	1	223676678	T	G	0.0126	-0.78	2.75423E-96	0.037460974	35559	433.52
DTD2	rs150554078	14	30929922	G	A	0.0033	-0.48	1.28825E-11	0.070901535	35559	45.83
ADAMTS5	rs151058	21	26939253	T	C	0.1208	-0.56	1E-200	0.014557779	35559	1479.66
PDGFD	rs1532673	11	104139237	G	T	0.3666	0.07	1.20226E-16	0.008451162	35559	68.24
UCMA	rs1537771	10	13241177	T	C	0.1287	-0.4	1E-200	0.012306945	35559	1056.32
LSAMP	rs1541871	3	116383969	T	C	0.1514	-0.2	7.4131E-70	0.011319977	35559	312.14
VWC2	rs1544434	7	49502717	G	A	0.4149	0.16	4.67735E-76	0.008669327	35559	340.6
ST3GAL6	rs1585987	3	99016584	A	G	0.4669	-0.08	7.4131E-27	0.007456197	35559	115.11
GFRA2	rs15881	8	21693256	A	C	0.4951	-0.31	1E-200	0.008468253	35559	1340.02

RIPK2	rs160438	8	89643912	G	A	0.1329	0.08	8.91251E-13	0.011194549	35559	51.07
NTRK2	rs1624327	9	84814375	A	G	0.2952	-0.08	7.24436E-17	0.009588904	35559	69.6
KLK7	rs1624358	19	50983919	T	G	0.0854	-0.53	1E-200	0.015211805	35559	1213.85
SPINK4	rs1630171	9	33234041	G	A	0.1527	0.28	6.6069E-139	0.011160403	35559	629.41
CNTN4	rs163352	3	3056357	G	C	0.1989	0.29	6.9183E-156	0.010902548	35559	707.48
CD68	rs1641511	17	7656359	G	A	0.2222	0.06	3.01995E-10	0.009527211	35559	39.66
LILRA3	rs1645788	19	54297564	G	A	0.2165	-1.23	1E-200	0.031975122	35559	1479.66
CHST11	rs1650132	12	104587879	G	A	0.481	-0.28	1E-200	0.008268139	35559	1146.77
NRP2	rs16837000	2	205130682	T	G	0.1971	-0.16	8.31764E-52	0.010565334	35559	229.32
CXCL6	rs16850073	4	73838282	T	C	0.3885	0.65	1E-200	0.016897422	35559	1479.66
FMOD	rs16851364	1	203349016	A	G	0.0771	-0.25	1.04713E-58	0.015475082	35559	260.97
NFASC	rs16854533	1	204852036	A	G	0.1015	0.24	6.76083E-73	0.013290124	35559	326.09
SERPINE2	rs16865705	2	224268510	C	G	0.1441	0.13	1.04713E-31	0.011095307	35559	137.27
WISP1	rs16904832	8	133100893	A	G	0.2169	0.47	1E-200	0.012218136	35559	1479.66
PDCD1LG2	rs16923189	9	5510644	G	A	0.2871	0.35	1E-200	0.009098612	35559	1479.66
NAAA	rs17001208	4	75915873	C	T	0.0531	0.67	1E-200	0.017417343	35559	1479.66
LOXL3	rs17010021	2	74534412	A	T	0.059	-0.22	6.91831E-37	0.017339621	35559	160.97
ANXA4	rs17037076	2	69806517	A	G	0.2209	-0.29	2.6915E-200	0.009603994	35559	911.73
INHBB	rs17050272	2	120548864	A	G	0.4176	0.34	1E-200	0.008838652	35559	1479.66
SERPINA9	rs17090930	14	94468900	T	G	0.299	-0.18	6.0256E-85	0.009216279	35559	381.43
IGFBP7	rs1718860	4	57083351	G	A	0.2947	0.3	1E-200	0.009137554	35559	1077.85
GPNMB	rs1728326	7	23195362	G	T	0.0442	-0.2	3.80189E-23	0.02018354	35559	98.18
NTN4	rs17288108	12	95738117	G	A	0.1424	-0.24	1.28825E-95	0.011567595	35559	430.44
APOA4	rs1729408	11	116804102	G	A	0.3437	-0.07	2.39883E-17	0.008261883	35559	71.78
NQO2	rs17300141	6	3012544	A	G	0.0258	0.95	1E-200	0.024696233	35559	1479.66
PI3	rs17332620	20	45148865	T	C	0.2012	0.34	1E-200	0.010227694	35559	1105.04
ADIPOQ	rs17366653	3	186853027	C	T	0.0033	-0.69	2.0893E-22	0.070861161	35559	94.81
PPIC	rs17388251	5	123024708	C	T	0.3898	-0.42	1E-200	0.010918334	35559	1479.66
GNLY	rs17430897	2	85685839	T	C	0.0543	0.57	1E-200	0.017384742	35559	1074.95
ERAP1	rs17482078	5	96783162	T	C	0.2204	-0.83	1E-200	0.021576709	35559	1479.66
GKN2	rs17504565	2	68932692	A	G	0.0505	-0.84	1E-200	0.021836669	35559	1479.66
ADAMTSL1	rs1755286	9	17960184	C	T	0.3872	-0.05	8.12831E-10	0.008140139	35559	37.73
MSR1	rs17583220	8	16556987	C	T	0.3937	-0.12	9.77237E-45	0.008551185	35559	196.92
CAPN2	rs17599	1	223766378	C	A	0.2836	-0.11	1.07152E-31	0.0093899	35559	137.23
SPINT1	rs17658212	15	40853721	T	C	0.0475	-0.4	5.62341E-94	0.019450306	35559	422.9

FLRT2	rs1767407	14	85213582	A	G	0.2845	-0.09	1.44544E-22	0.009207417	35559	95.54
ANKRD27	rs17693106	19	32634149	A	G	0.4023	-0.05	1.28825E-10	0.007777801	35559	41.32
RARRES1	rs17699478	3	158708454	T	C	0.2078	-0.28	1E-200	0.007874661	35559	1264.24
PYGL	rs17720606	14	50864597	A	C	0.2866	-0.07	3.54813E-16	0.008585728	35559	66.47
GCA	rs17783344	2	162352383	G	T	0.0954	-0.43	1E-200	0.013494686	35559	1015.28
CYB5A	rs17806420	18	74316132	T	C	0.1905	-0.1	7.58578E-24	0.009931618	35559	101.38
CNDP1	rs17817077	18	74542308	A	G	0.3895	0.28	1E-200	0.008448524	35559	1098.32
PPID	rs17843929	4	158715961	T	C	0.2608	0.27	7.0795E-185	0.009311155	35559	840.81
FUT10	rs17855838	8	33389073	C	G	0.2227	0.46	1E-200	0.011958176	35559	1479.66
IL16	rs17875523	15	81304211	T	C	0.0869	-1.06	1E-200	0.027555796	35559	1479.66
INSR	rs1799815	19	7125508	A	G	0.0521	-0.17	1.69824E-18	0.019371645	35559	77.01
PRSS2	rs1799886	7	142800839	C	T	0.4101	0.2	1.2023E-124	0.008422395	35559	563.85
ALAD	rs1800435	9	113391611	G	C	0.0868	-0.42	1.122E-179	0.014694519	35559	816.89
MBL2	rs1800451	10	52771466	T	C	0.0129	-1.48	1E-200	0.038474131	35559	1479.66
LRPAP1	rs1800493	4	3514832	T	C	0.0101	-0.81	1.65959E-93	0.039487805	35559	420.75
CRP	rs1800947	1	159713648	G	C	0.0624	-0.18	1.28825E-26	0.016856866	35559	114.02
FCGR2A	rs1801274	1	161509955	A	G	0.4405	-1.24	1E-200	0.032235083	35559	1479.66
FCGR2B	rs1801274	1	161509955	A	G	0.4405	-0.49	1E-200	0.012738057	35559	1479.66
ITGA2	rs181769	5	52981625	C	A	0.3151	0.09	1.47911E-28	0.008118885	35559	122.88
MXRA8	rs181929025	1	1355705	T	C	0.0152	-0.34	2.39883E-22	0.034967559	35559	94.54
SIGLEC7	rs1827321	19	51122452	A	G	0.4536	0.09	3.31131E-27	0.008330592	35559	116.71
CNTN1	rs1838343	12	40802428	T	C	0.4596	-0.2	1.1482E-127	0.008320587	35559	577.73
TIMP4	rs184262	3	12093240	A	G	0.1607	-0.42	1E-200	0.011162179	35559	1415.72
ESM1	rs1848502	5	55026648	G	C	0.2716	-0.11	2.23872E-31	0.009440358	35559	135.76
EPHB1	rs185257	3	134953443	A	C	0.4766	0.28	1E-200	0.008015186	35559	1220.29
PILRA	rs1859788	7	100374211	A	G	0.3039	1.3	1E-200	0.033794845	35559	1479.66
PGLYRP3	rs1865234	1	153343308	T	C	0.101	0.08	1.58489E-10	0.012505919	35559	40.92
PLEK	rs1867312	2	68392849	C	A	0.4493	-0.1	3.63078E-36	0.007963576	35559	157.67
PSAP	rs1867981	10	71835464	C	T	0.4849	0.27	1E-200	0.008084049	35559	1115.44
STIM1	rs1869085	11	3883134	C	A	0.3255	-0.1	5.37032E-29	0.008948088	35559	124.89
TMEM132D	rs1875445	12	129860675	T	C	0.0532	0.12	2.81838E-11	0.018029494	35559	44.3
RTP4	rs1878861	3	187375904	G	A	0.4167	0.33	1E-200	0.008578691	35559	1479.66
PRCP	rs188172480	11	82882681	A	G	0.0219	-0.22	5.12861E-14	0.02922189	35559	56.68
SEZ6L	rs188357839	22	26367507	G	C	0.0219	-0.19	9.12011E-12	0.027860272	35559	46.51
RNASE4	rs1888560	14	20696086	T	C	0.3199	-0.31	1E-200	0.008698767	35559	1269.94

TLL1	rs1903176	4	165742950	A	T	0.3621	-0.06	1.20226E-11	0.008849637	35559	45.96
CPM	rs1908671	12	69039624	C	G	0.2931	-0.1	4.7863E-29	0.008939915	35559	125.11
ARF4	rs191829509	3	57624220	A	G	0.0622	0.13	1.62181E-14	0.016932522	35559	58.94
IGDCC4	rs191927852	15	65493359	T	G	0.0099	0.71	1.54882E-68	0.040581724	35559	306.08
ISG15	rs1921	1	1014228	A	G	0.4572	0.31	1E-200	0.008206009	35559	1427.04
CHST11	rs1922263	12	104478114	A	C	0.1207	-0.21	4.57088E-65	0.012328059	35559	290.15
LRRTM4	rs1922804	2	77467668	A	T	0.3135	-0.05	6.60693E-10	0.008096871	35559	38.13
DCLK1	rs1926318	13	36070005	T	C	0.2111	0.22	6.7608E-108	0.009970253	35559	486.86
GFRA2	rs192923146	8	21897507	T	G	0.0184	-0.26	2.5704E-16	0.031738497	35559	67.1
BPI	rs1934913	20	38296880	C	T	0.4054	0.29	1E-200	0.008553655	35559	1149.39
UROS	rs1935451	10	125816857	G	A	0.1103	0.3	2.3442E-114	0.013199311	35559	516.55
HEBP1	rs1941	12	12975329	G	C	0.0274	-1.37	1E-200	0.035614567	35559	1479.66
SMOC1	rs1958078	14	69888141	A	C	0.1328	-0.25	5.88844E-93	0.012224355	35559	418.22
CFHR1	rs1963605	1	196853038	C	A	0.2331	-0.13	1.04713E-47	0.008959335	35559	210.53
ANGPT2	rs1968586	8	6421990	T	C	0.3488	-0.13	2.51189E-49	0.008805392	35559	217.95
SPON1	rs1969539	11	14017074	A	G	0.452	0.28	1E-200	0.008228454	35559	1157.86
CCL11	rs1989357	17	34227435	T	A	0.3912	-0.12	2.69153E-44	0.008595296	35559	194.9
TGM4	rs1995640	3	44901577	T	C	0.4112	-0.05	2.34423E-10	0.007890284	35559	40.15
MAPK8	rs1997365	10	48299932	C	A	0.2919	-0.06	2.29087E-10	0.009463042	35559	40.2
SIGLEC6	rs2005199	19	51529952	A	G	0.0812	0.71	1E-200	0.018457184	35559	1479.66
NCAM1	rs2012801	11	113125732	A	G	0.2185	-0.23	1.0471E-112	0.010194581	35559	508.97
WISP1	rs2013158	8	133190699	A	C	0.2624	0.22	4.57088E-14	0.029163702	35559	56.9
CCL18	rs2015086	17	36064257	G	A	0.1135	0.89	1E-200	0.023136471	35559	1479.66
APOF	rs2020854	12	56349583	C	T	0.0901	-0.31	3.2359E-102	0.014441431	35559	460.76
B3GALTL	rs2025727	13	31311017	G	A	0.233	-0.27	7.5858E-191	0.009162737	35559	868.27
MTRF1L	rs2038332	6	152999591	G	A	0.2119	-0.19	6.30957E-90	0.009449083	35559	404.3
SHANK3	rs2040487	22	50708587	G	A	0.4703	0.06	1.12202E-14	0.007767389	35559	59.67
EPB41	rs204074	1	28865051	C	T	0.1135	-0.1	5.62341E-15	0.012800623	35559	61.03
TAPBPL	rs2041388	12	6453670	A	G	0.2653	1.33	1E-200	0.034574726	35559	1479.66
HGD	rs2042482	3	120675205	A	T	0.2603	-0.12	2.95121E-40	0.009034904	35559	176.4
UAP1	rs2048335	1	162606415	A	G	0.2442	-0.06	2.69153E-11	0.009005588	35559	44.39
MAPRE1	rs20654	20	32830490	G	A	0.3116	-0.07	3.98107E-14	0.009257286	35559	57.17
TPI1	rs2071065	12	6867905	C	T	0.2881	-0.06	2.13796E-10	0.009447199	35559	40.33
RBP1	rs2071387	3	139538761	G	A	0.2057	0.09	1.14815E-20	0.009655202	35559	86.88
AGT	rs2071404	1	230715194	A	C	0.0929	0.28	6.91831E-92	0.013772453	35559	413.3

CXCL1	rs2071425	4	73869527	G	A	0.1786	0.71	1E-200	0.020872474	35559	1157.03
PGLYRP1	rs2072563	19	46023390	A	G	0.3186	-0.19	7.4131E-107	0.00865325	35559	482.09
CA3	rs2072696	8	85438822	C	G	0.2478	-0.2	5.01187E-97	0.009567933	35559	436.92
FGL1	rs2073562	8	17885420	A	G	0.3154	-0.52	1E-200	0.013517938	35559	1479.66
CCL15	rs2075746	17	35998496	T	C	0.4457	-0.05	2.5704E-11	0.007497047	35559	44.48
SIGLEC9	rs2075803	19	51125272	A	G	0.4787	1.23	1E-200	0.031975122	35559	1479.66
FUT8	rs2127870	14	65330128	G	C	0.171	1.05	1E-200	0.027295836	35559	1479.66
TGM3	rs214830	20	2340459	G	C	0.3073	-0.36	1E-200	0.009358572	35559	1479.66
GAS1	rs2150719	9	86584460	T	C	0.483	0.07	6.76083E-16	0.008668986	35559	65.2
PPCS	rs2152315	1	42441912	G	A	0.358	-0.1	5.24807E-34	0.008225528	35559	147.79
ANXA11	rs2152546	10	80146628	T	G	0.4544	-0.15	1.69824E-76	0.008103496	35559	342.62
AMIGO2	rs215379	12	47360853	T	C	0.4977	0.06	1.34896E-11	0.008871427	35559	45.74
NQO1	rs2161631	16	69523045	A	C	0.1704	-0.86	1E-200	0.02235659	35559	1479.66
SNX1	rs2166735	15	64525322	T	C	0.1113	0.08	4.0738E-10	0.012797597	35559	39.07
HP	rs217184	16	72072066	C	T	0.1835	0.74	1E-200	0.019237065	35559	1479.66
MTHFD2	rs2177705	2	74254096	T	C	0.0464	-0.11	8.51138E-10	0.017929663	35559	37.64
CNTFR	rs2183012	9	34554022	A	G	0.0219	0.22	3.46737E-15	0.027944246	35559	61.98
KREMEN1	rs2205771	22	29098605	A	G	0.1746	0.21	1.25893E-83	0.010838808	35559	375.36
SORCS1	rs2210969	10	107273264	G	A	0.4334	0.06	5.01187E-15	0.007666151	35559	61.25
TRIL	rs221167	7	28965479	C	T	0.1123	0.11	9.12011E-18	0.012813733	35559	73.69
DPY30	rs221205	2	31861868	T	C	0.1152	0.1	1.34896E-16	0.012093114	35559	68.38
PLAU	rs2227551	10	73909432	G	T	0.2798	0.13	8.31764E-23	0.013224103	35559	96.63
ECH1	rs2229259	19	38816463	T	C	0.0877	0.45	1E-200	0.013860716	35559	1053.97
PRCP	rs2229437	11	82853252	G	T	0.1621	0.22	6.76083E-83	0.011405994	35559	372.01
HSPG2	rs2229475	1	21855402	T	C	0.0606	0.51	2.2909E-191	0.017283603	35559	870.66
AKR1A1	rs2229540	1	45566639	G	A	0.0646	-0.92	1E-200	0.023916352	35559	1479.66
AKR1B1	rs2229542	7	134450869	C	T	0.017	-0.2	9.77237E-11	0.030909842	35559	41.86
RCN1	rs223046	11	32091022	C	A	0.2363	-0.08	5.01187E-10	0.012864358	35559	38.67
TBCB	rs2231569	19	36114973	T	G	0.0342	0.16	1.90546E-12	0.022723293	35559	49.58
GNPDA1	rs2232195	5	142007955	G	A	0.2918	-0.06	6.16595E-11	0.009174791	35559	42.76
RNASE2	rs2233859	14	20891649	A	C	0.4675	0.14	1.7378E-74	0.007667229	35559	333.39
TNR	rs2235256	1	175599911	G	A	0.4708	-0.13	4.89779E-62	0.007821357	35559	276.25
CCL22	rs223883	16	57354818	G	A	0.2393	-0.19	1.04713E-85	0.009684082	35559	384.92
CSF2RB	rs2239749	22	36935263	G	A	0.4427	-0.57	1E-200	0.01481774	35559	1479.66
PLXND1	rs2255703	3	129574413	C	T	0.3994	-0.12	1.28825E-34	0.009778746	35559	150.58

VTA1	rs225656	6	142166332	A	C	0.4738	-0.05	7.24436E-10	0.008116017	35559	37.95
IFNAR1	rs2257167	21	33343393	C	G	0.1194	-0.76	1E-200	0.019756986	35559	1479.66
PARK7	rs226251	1	7964630	T	C	0.3948	-0.09	5.7544E-22	0.009342079	35559	92.81
C5	rs2269067	9	120974762	C	G	0.1776	0.17	1.90546E-56	0.010738508	35559	250.6
THG1L	rs2270812	5	157737954	T	C	0.3361	-0.37	1E-200	0.009618533	35559	1479.66
CRELD1	rs2270894	3	9933702	G	C	0.2409	0.46	1E-200	0.011958176	35559	1479.66
LY9	rs2271967	1	160817915	C	T	0.2104	0.36	1.86209E-80	0.018951969	35559	360.8
SCARF1	rs2272011	17	1638896	G	A	0.4527	0.4	1E-200	0.010398414	35559	1479.66
NHEJ1	rs2272019	2	219137812	C	A	0.3203	0.09	2.23872E-25	0.008645763	35559	108.36
CD300A	rs2272111	17	74473827	A	G	0.198	-0.68	1E-200	0.017677303	35559	1479.66
WFDC2	rs2272953	20	45481252	C	T	0.0778	-0.11	1.20226E-12	0.015481814	35559	50.48
ATXN3	rs2273185	14	91993754	A	C	0.3681	-0.24	3.3113E-192	0.008115473	35559	874.52
CA6	rs2274329	1	8949392	C	G	0.1153	-0.79	1E-200	0.020536867	35559	1479.66
LAMC2	rs2276543	1	183186170	A	G	0.2397	0.62	1E-200	0.016117541	35559	1479.66
CDCP1	rs2276862	3	45146293	G	C	0.1742	-0.29	4.4668E-166	0.010558483	35559	754.34
PSAT1	rs2277148	9	78297199	G	C	0.2185	-0.15	2.0893E-52	0.009846116	35559	232.07
FCER2	rs2277989	19	7696926	G	A	0.4499	-0.27	1E-200	0.008554019	35559	996.24
TNFAIP6	rs2278089	2	151290158	G	T	0.429	0.52	1E-200	0.013517938	35559	1479.66
TPST2	rs2283824	22	26528490	A	G	0.3512	0.15	1.07152E-67	0.008628118	35559	302.22
NCAM1	rs2288158	11	113262954	G	T	0.1301	0.33	2.6915E-149	0.012680892	35559	677.18
IL2RB	rs228953	22	37135396	A	G	0.4752	0.1	4.57088E-32	0.008484137	35559	138.92
PNKP	rs2290774	19	49871778	C	T	0.4648	-0.11	7.94328E-41	0.00822139	35559	179.01
PDLIM4	rs2292260	5	132271243	A	G	0.0737	-0.26	5.24807E-66	0.015151094	35559	294.47
SERPINB1	rs2293772	6	2835597	A	G	0.404	-0.08	6.30957E-22	0.008312237	35559	92.62
ESD	rs2298087	13	46777268	C	T	0.0896	-0.36	1.0233E-147	0.013908509	35559	669.91
TFF3	rs2298691	21	42380681	T	C	0.1211	-0.08	2.69153E-10	0.012667091	35559	39.88
IL17RA	rs2302519	22	17104551	T	C	0.4506	-0.54	1E-200	0.014037859	35559	1479.66
CA11	rs2303147	19	48639768	T	C	0.1616	0.18	7.94328E-65	0.010587021	35559	289.05
GAA	rs2304849	17	80101663	C	G	0.2212	-0.36	1E-200	0.009554393	35559	1419.63
GLTPD2	rs2304969	17	4789264	T	G	0.1471	-0.12	1.86209E-22	0.012308896	35559	95.04
KDR	rs2305948	4	55113391	T	C	0.0709	0.3	3.46737E-80	0.015820515	35559	359.56
LRP4	rs2306029	11	46871557	T	C	0.4455	0.42	1E-200	0.010918334	35559	1479.66
CTSO	rs2334114	4	155935041	A	C	0.2289	-0.18	3.16228E-75	0.009808016	35559	336.79
BCAN	rs2365715	1	156645322	G	A	0.3942	-0.2	6.9183E-124	0.008448609	35559	560.36
PCSK7	rs236910	11	117211258	G	A	0.2768	-0.82	1E-200	0.021316748	35559	1479.66

ENO3	rs238238	17	4953081 A	G	0.3307	0.33	1E-200	0.008578691	35559	1479.66
SNX8	rs2398666	7	2313965 A	G	0.1827	0.13	2.51189E-33	0.010807517	35559	144.68
NUDT5	rs2399786	10	12173181 C	T	0.4501	-0.07	7.07946E-19	0.007888535	35559	78.74
FGFR3	rs2403274	4	1752788 G	C	0.2526	-0.17	4.2658E-77	0.00914726	35559	345.38
THBS4	rs2404710	5	79960739 A	C	0.4189	0.11	6.30957E-39	0.008428768	35559	170.31
UNC5D	rs2405810	8	35261107 C	T	0.4744	-0.1	4.67735E-34	0.008219171	35559	148.02
RAB1A	rs2422441	2	65143632 A	G	0.2339	-0.06	9.33254E-11	0.009262996	35559	41.95
JAG1	rs2423507	20	10633691 G	C	0.3393	0.07	1.51356E-16	0.008479267	35559	68.15
CASS4	rs2426628	20	56451641 A	G	0.0791	-0.1	1.54882E-12	0.014144178	35559	49.98
PDGFR1	rs2427709	8	17595419 C	T	0.0642	-0.63	1E-200	0.016377502	35559	1479.66
FBLN5	rs2430349	14	91882631 A	G	0.2672	0.08	7.07946E-20	0.008765748	35559	83.29
ALKBH3	rs2434484	11	43927458 G	T	0.3393	-0.24	1.8621E-172	0.008572918	35559	783.68
RET	rs2435359	10	43084567 A	G	0.2625	-0.34	1E-200	0.009207797	35559	1363.4
CSGALNACT2	rs2435382	10	43181651 T	A	0.3315	-0.12	6.60693E-43	0.008739249	35559	188.53
OAF	rs2444239	11	120185708 A	T	0.4615	-0.32	1E-200	0.008318731	35559	1479.66
HRSP12	rs2447507	8	98114724 T	C	0.4199	0.14	2.63027E-43	0.010146601	35559	190.37
HBZ	rs2461286	16	153255 A	G	0.3224	0.74	1E-200	0.019237065	35559	1479.66
CNTNAP2	rs2462603	7	146116762 A	G	0.4984	0.11	8.31764E-46	0.007742788	35559	201.82
ANGPTL1	rs2476562	1	178657057 T	C	0.3776	-0.05	1.04713E-09	0.00819396	35559	37.23
NRP1	rs2506150	10	33194380 A	G	0.3311	-0.3	1E-200	0.008612415	35559	1213.3
NTM	rs2511504	11	131326501 C	T	0.4064	0.36	1E-200	0.009358572	35559	1479.66
NID2	rs2516600	14	52021048 T	C	0.4222	-0.49	1E-200	0.012738057	35559	1479.66
IFI16	rs2518563	1	159090179 C	T	0.1851	-0.09	1.58489E-19	0.009957141	35559	81.69
SOD3	rs2536512	4	24799693 G	A	0.3234	-0.28	1E-200	0.008756541	35559	1022.41
PGM2	rs2553287	4	37845022 T	C	0.258	-0.08	2.04174E-19	0.008878031	35559	81.19
LIFR	rs2561821	5	38488072 A	C	0.4008	-0.27	8.12831E-44	0.019449454	35559	192.7
SRA1	rs2563253	5	140582582 A	G	0.4162	0.12	5.24807E-46	0.008427565	35559	202.74
ACAT2	rs25683	6	159775311 A	G	0.43	0.27	1E-200	0.008234173	35559	1075.14
PENK	rs2576575	8	56448734 T	C	0.4541	-0.48	1E-200	0.012478097	35559	1479.66
HSP90B1	rs2583264	12	103945832 C	T	0.307	0.72	1E-200	0.018717145	35559	1479.66
DPEP1	rs258341	16	89624734 T	C	0.3619	-0.48	1E-200	0.012478097	35559	1479.66
TYRO3	rs2588323	15	41549880 C	G	0.3377	0.12	8.70964E-44	0.008647286	35559	192.57
SFRP4	rs2598105	7	37937514 T	C	0.1551	0.27	1.2882E-123	0.011418274	35559	559.12
DCTD	rs2603350	4	183030757 G	A	0.3727	0.08	1.69824E-23	0.008008592	35559	99.78
NNMT	rs2604277	11	114308380 T	A	0.0519	-0.13	2.45471E-12	0.018555891	35559	49.08

GSTA1	rs2608631	6	52761471	G	A	0.3333	-0.37	1E-200	0.009618533	35559	1479.66
IBSP	rs2616262	4	87802058	T	G	0.4876	-0.09	3.54813E-31	0.00775007	35559	134.85
PCBD1	rs2630336	10	70888665	T	G	0.372	-0.14	1.90546E-63	0.008326062	35559	282.72
UNC5C	rs264299	4	95606381	C	T	0.3102	-0.15	1.41254E-65	0.008770454	35559	292.49
COL6A3	rs2646260	2	237369152	G	A	0.3155	-0.14	7.4131E-62	0.008435619	35559	275.42
KLK3	rs2659051	19	50842312	C	G	0.1779	-0.07	1.7378E-10	0.010966824	35559	40.74
KLK8	rs2659091	19	50943274	A	G	0.3955	-0.07	5.7544E-17	0.00836305	35559	70.06
CXCL12	rs266085	10	44378805	T	C	0.3223	0.06	2.63027E-11	0.009001019	35559	44.43
SCARA5	rs2685414	8	27952867	T	C	0.2976	-0.24	1.3183E-166	0.008723972	35559	756.78
KLK14	rs2691271	19	51092303	G	C	0.2183	-0.19	7.07946E-46	0.013363292	35559	202.14
CPQ	rs2704248	8	96645187	C	G	0.0393	-0.19	1.47911E-21	0.019923711	35559	90.94
PCYOX1	rs2706762	2	70261338	T	C	0.1403	-0.82	1E-200	0.021316748	35559	1479.66
BDH2	rs2711897	4	103102410	T	C	0.387	0.2	5.2481E-138	0.00799805	35559	625.27
GRAMD1C	rs2712339	3	113913896	T	C	0.4054	-0.17	4.16869E-65	0.009976702	35559	290.34
RPE	rs2723211	2	210015768	A	G	0.4327	0.08	8.12831E-21	0.008548862	35559	87.57
NID1	rs2734807	1	236098248	T	C	0.4178	-0.13	2.34423E-53	0.008454322	35559	236.43
MIF	rs2739338	22	23954943	T	C	0.4518	0.07	4.57088E-18	0.00807978	35559	75.05
CTSB	rs2740592	8	11843744	G	A	0.2508	0.61	1E-200	0.015857581	35559	1479.66
KIAA1549L	rs2753408	11	33378145	A	G	0.4799	-0.32	1E-200	0.008318731	35559	1479.66
ASPN	rs2761681	9	92424655	G	A	0.3681	-0.39	1E-200	0.010138453	35559	1479.66
CD5L	rs2765501	1	157834858	A	G	0.4669	0.3	1E-200	0.008319867	35559	1300.13
EFNB2	rs2774201	13	106923163	C	T	0.3735	0.06	1.31826E-12	0.008459785	35559	50.3
ARG1	rs2781668	6	131576138	T	C	0.1932	-0.11	3.71535E-29	0.009814214	35559	125.62
CBLN1	rs27817	16	49422380	A	G	0.0244	-0.5	3.80189E-69	0.028448852	35559	308.88
TAGLN2	rs2789422	1	159922298	A	G	0.3962	-0.09	2.18776E-29	0.007996432	35559	126.67
C4BPA	rs2808467	1	207100456	T	G	0.1536	0.15	6.91831E-13	0.020888339	35559	51.56
SH3BGRL2	rs2812679	6	79616293	C	T	0.4541	-0.1	7.94328E-35	0.008123082	35559	151.54
ICAM5	rs281439	19	10289434	G	C	0.2083	-0.81	1E-200	0.021056788	35559	1479.66
HSPA13	rs2822638	21	14372785	C	T	0.2251	0.11	1.51356E-30	0.009575102	35559	131.97
NCAM2	rs2826851	21	21463626	G	A	0.2663	0.46	1E-200	0.011958176	35559	1479.66
ADH1C	rs283415	4	99349450	T	C	0.4861	0.13	2.51189E-55	0.008297281	35559	245.47
FAM3B	rs2838012	21	41322943	A	G	0.0485	-0.5	5.3703E-142	0.019708108	35559	643.61
MMP12	rs28381684	11	102866461	T	A	0.1054	-0.71	1E-200	0.018457184	35559	1479.66
APCS	rs28383573	1	159588882	T	G	0.139	0.21	1.41254E-72	0.011655142	35559	324.62
TFF3	rs2839493	21	42375588	A	G	0.0951	-0.12	6.91831E-18	0.013927174	35559	74.24

COCH	rs28400019	14	30874288	A	G	0.1195	0.44	1E-200	0.012970174	35559	1150.77
SMAP1	rs2842061	6	70634174	A	G	0.2552	-0.32	1E-200	0.009209129	35559	1207.36
DHX58	rs28459794	17	42166278	G	A	0.1003	-0.09	6.91831E-11	0.013798565	35559	42.54
B3GNT8	rs284663	19	41426707	C	T	0.4327	-0.82	1E-200	0.021316748	35559	1479.66
COLEC12	rs2846666	18	469797	C	A	0.2416	-0.16	6.76083E-56	0.010158088	35559	248.08
SNX8	rs28514741	7	2249281	C	T	0.0047	-0.63	3.89045E-26	0.059574288	35559	111.83
ANG	rs28535078	14	20676917	A	G	0.2211	0.56	1E-200	0.014557779	35559	1479.66
S100A2	rs28548347	1	153548542	C	A	0.0433	-0.21	1.86209E-27	0.019343668	35559	117.85
BTC	rs28549760	4	74794307	C	A	0.0947	-0.21	1.86209E-52	0.013777758	35559	232.3
CHAD	rs28590506	17	50457426	A	G	0.3235	-0.06	4.36516E-10	0.009614803	35559	38.94
GLCE	rs28638321	15	69258831	C	T	0.2354	-0.62	1E-200	0.016117541	35559	1479.66
ADAMTS13	rs28647808	9	133440409	G	C	0.106	-0.88	1E-200	0.02287651	35559	1479.66
CCL17	rs28695417	16	57410006	A	G	0.0746	0.4	7.5858E-138	0.016005518	35559	624.53
IGF1R	rs2872060	15	98956264	T	G	0.476	-0.06	2.0893E-13	0.008171098	35559	53.92
ADH6	rs28730617	4	99078444	A	G	0.0456	-0.36	5.24807E-79	0.019129306	35559	354.15
NTRK3	rs28735437	15	87971624	C	G	0.1164	0.24	6.45654E-73	0.013288253	35559	326.18
SLITRK1	rs2876803	13	83794650	A	T	0.1531	0.08	7.4131E-14	0.010694702	35559	55.95
FRZB	rs288326	2	182838608	A	G	0.0845	0.54	1E-200	0.015071544	35559	1283.65
IL1RAP	rs2885373	3	190628679	T	C	0.1427	1.42	1E-200	0.036914369	35559	1479.66
ADH5	rs28894371	4	99083469	A	G	0.046	-0.36	1.41254E-77	0.019309154	35559	347.58
HIBCH	rs291466	2	190319749	A	G	0.3892	-0.33	1E-200	0.008578691	35559	1479.66
PNLIPRP1	rs2915766	10	116593741	C	T	0.4739	-0.15	4.36516E-70	0.008475661	35559	313.19
C1QC	rs292004	1	22667221	G	A	0.0752	0.36	3.8905E-127	0.015008737	35559	575.3
B4GALT2	rs2993619	1	43989531	T	C	0.0854	-0.09	1.54882E-10	0.014061429	35559	40.96
TINAGL1	rs3008406	1	31573186	G	A	0.475	0.08	1.34896E-12	0.011284782	35559	50.25
REG4	rs3009182	1	119836055	C	T	0.2212	0.14	2.39883E-46	0.009794594	35559	204.3
MCF2L	rs3011487	13	112924107	C	T	0.4849	0.21	6.9183E-149	0.008080915	35559	675.29
S100A7	rs3014837	1	153458930	C	G	0.054	1.82	1E-200	0.047312783	35559	1479.66
S100A12	rs3014874	1	153365467	A	G	0.2579	-0.22	1.5488E-115	0.009629078	35559	521.98
CD8A	rs3020726	2	86789383	G	A	0.1957	0.4	1E-200	0.010398414	35559	1479.66
STAMBPL1	rs303510	10	88704397	T	C	0.3763	0.05	8.51138E-11	0.007702649	35559	42.13
NUDCD3	rs306995	7	44500230	A	G	0.2734	0.08	3.16228E-17	0.009478213	35559	71.24
HK2	rs3100578	2	74817573	A	G	0.3104	0.06	1E-13	0.008063538	35559	55.36
F2	rs3136516	11	46739206	G	A	0.4379	0.11	4.67735E-41	0.008197308	35559	150.76
EPHB4	rs314366	7	100818887	G	A	0.4914	-0.11	7.24436E-42	0.008114146	35559	183.77

CROT	rs31658	7	87409825	T	C	0.1361	-0.55	1E-200	0.014297819	35559	1479.66
ITPKA	rs316617	15	41503702	C	T	0.3779	0.07	4.2658E-18	0.00807245	35559	75.19
CD7	rs3176831	17	82314615	T	C	0.0412	-0.45	9.3325E-117	0.019590895	35559	527.58
PTN	rs320682	7	137353346	C	T	0.4471	0.19	2.0417E-123	0.008041696	35559	558.2
LARGE	rs3210587	22	33920089	A	G	0.3441	0.11	4.89779E-40	0.008305747	35559	175.39
F10	rs3211717	13	113122635	A	C	0.4189	-0.1	1.7378E-33	0.008292529	35559	145.41
SEMA6A	rs33069	5	116437223	A	C	0.2767	-0.08	3.31131E-17	0.009484263	35559	71.15
VNN2	rs33980664	6	132752705	T	C	0.033	-0.82	1E-200	0.02324325	35559	1244.54
IL5RA	rs340827	3	3066046	A	G	0.4646	0.2	2.7542E-123	0.008469477	35559	557.6
CHRD	rs34095724	3	184381262	T	C	0.0538	-0.19	7.07946E-27	0.017701447	35559	115.2
CCL23	rs34111696	17	36023622	G	A	0.0437	-0.21	2.18776E-13	0.028622869	35559	53.83
SMAD1	rs34180190	4	145455828	G	A	0.4073	0.05	1.77828E-09	0.008309976	35559	36.2
CCL8	rs34202026	17	34320338	T	A	0.0192	-0.94	1E-200	0.026345425	35559	1184.04
CCL7	rs34202026	17	34320338	T	A	0.0192	0.99	1E-200	0.028770029	35559	1184.04
FLT4	rs34221241	5	180630293	C	T	0.1351	-0.19	3.54813E-58	0.011816234	35559	258.54
NUDT12	rs34226	5	103526071	A	G	0.2193	0.11	7.4131E-30	0.009691598	35559	128.82
KDR	rs34231037	4	55106779	G	A	0.0229	-0.89	1E-200	0.027121392	35559	1076.79
MFGE8	rs34239095	15	88912537	G	C	0.282	0.26	6.7608E-179	0.009116647	35559	813.3
PMM2	rs34258285	16	8813057	C	A	0.0186	-0.33	1.86209E-27	0.030397192	35559	117.85
GPC5	rs342706	13	91764804	C	T	0.2549	-0.55	1E-200	0.014297819	35559	1479.66
MATN2	rs34302865	8	97932698	C	G	0.0273	0.26	4.16869E-26	0.024601283	35559	111.69
F13B	rs34331968	1	196690623	C	T	0.4635	-0.08	7.07946E-19	0.009015468	35559	78.74
GMPR2	rs34354104	14	24238273	A	G	0.0589	-0.5	3.02E-185	0.017225456	35559	842.51
PLXNC1	rs34565975	12	94209630	C	G	0.007	0.5	1.77828E-24	0.048968891	35559	104.25
CRYGD	rs34570682	2	208114213	A	G	0.3343	-0.12	4.89779E-44	0.008621684	35559	193.71
IDH1	rs34599179	2	208243577	C	T	0.0076	-1.07	1.6596E-115	0.046838522	35559	521.84
NPNT	rs34712979	4	105897896	A	G	0.244	-0.2	2.0417E-100	0.009401817	35559	452.49
DAPK2	rs34772505	15	63984573	T	C	0.4174	0.26	1E-200	0.008127601	35559	1023.29
CD72	rs34791102	9	35612981	A	G	0.0697	0.23	6.0256E-47	0.015983911	35559	207.05
ALDH1A1	rs348452	9	72938469	T	C	0.2399	0.1	1.38038E-27	0.009188156	35559	118.45
CNN1	rs34912772	19	11566330	C	T	0.4613	-0.06	4.36516E-14	0.007947415	35559	56.99
ACAN	rs34949187	15	88843421	A	G	0.1638	-0.14	1.47911E-39	0.010637815	35559	173.19
PVRL4	rs34990628	1	161097295	T	C	0.159	-0.08	2.75423E-13	0.010950058	35559	53.37
IL27RA	rs35026308	19	14042481	C	T	0.1688	-1.02	1E-200	0.026515955	35559	1479.66
BTD	rs35034250	3	15645027	T	C	0.0351	-0.7	1E-200	0.021415317	35559	1068.37

BIN1	rs35103166	2	127124606	C	T	0.3495	0.13	1.20226E-54	0.008350497	35559	242.35
APOA5	rs35120633	11	116784884	A	G	0.0538	1.26	1E-200	0.032755003	35559	1479.66
APOE	rs35136575	19	44935906	G	C	0.285	-0.2	8.51138E-96	0.009630415	35559	156.99
PSG5	rs35136575	19	44935906	G	C	0.285	-0.11	5.12861E-36	0.008779064	35559	156.99
CXCL5	rs352045	4	73998970	T	G	0.1532	0.2	2.75423E-73	0.011044823	35559	327.88
CLSTN2	rs35220837	3	139904479	A	G	0.0758	0.41	1.9498E-160	0.015190953	35559	728.41
MMP8	rs35231465	11	102713404	A	G	0.0227	-0.68	1.122E-139	0.027027932	35559	632.95
THBS2	rs35239983	6	168901700	A	G	0.1559	0.08	6.45654E-14	0.010668838	35559	56.22
ADAMTSL1	rs35264941	9	18626299	C	G	0.0197	-0.68	8.9125E-120	0.029222093	35559	541.47
CD48	rs352684	1	160711985	A	G	0.4035	-0.2	1.0471E-117	0.008671256	35559	531.95
EBI3	rs353696	19	4242508	C	T	0.2755	-1.12	1E-200	0.029115559	35559	1479.66
KLB	rs35372803	4	39446966	T	C	0.0596	-0.64	1E-200	0.017047868	35559	1409.27
CXCL16	rs35383686	17	4720161	A	G	0.2314	-0.18	3.63078E-73	0.009948702	35559	327.33
RNASE6	rs35400387	14	20779552	C	T	0.3139	-0.09	2.23872E-22	0.009249432	35559	94.67
LILRA4	rs35407007	19	54339147	A	G	0.0641	-0.32	1.90546E-74	0.017529924	35559	333.21
WFDC5	rs35456522	20	45098802	C	G	0.2745	-0.06	6.0256E-11	0.009169963	35559	42.81
RETN	rs35547567	19	7669115	T	C	0.0077	0.5	5.62341E-24	0.049513507	35559	101.97
COL6A2	rs35548026	21	46132295	A	G	0.0933	-0.39	2.4547E-172	0.013935899	35559	783.13
CA8	rs35552143	8	60276129	A	G	0.4112	0.42	1E-200	0.010918334	35559	1479.66
QPCT	rs35576045	2	37343036	G	T	0.0554	-0.12	5.12861E-10	0.019307759	35559	38.63
TNFRSF11B	rs35617243	8	118875882	C	T	0.2959	-0.11	4.7863E-32	0.009335624	35559	138.83
LYPD3	rs35681564	19	43455236	A	G	0.2078	0.14	7.58578E-45	0.00996364	35559	197.42
CMPK1	rs35687416	1	47368537	T	G	0.0649	-0.17	1.41254E-25	0.016262536	35559	109.27
VWA2	rs35716048	10	114288519	G	A	0.0375	-0.42	4.36516E-85	0.021486546	35559	382.07
TRIM3	rs35717222	11	6462533	A	G	0.1831	-0.14	2.95121E-39	0.010680252	35559	171.82
PENK	rs35775010	8	56924337	C	T	0.1279	-0.13	2.63027E-28	0.01178216	35559	121.73
PSAPL1	rs35791045	4	7425380	G	A	0.1781	0.44	1E-200	0.011438255	35559	1479.66
RAD23B	rs35827173	9	107327437	C	T	0.2099	0.06	1.07152E-10	0.00929296	35559	41.68
COL6A2	rs35881321	21	46112542	A	G	0.0208	0.36	6.30957E-37	0.028357804	35559	161.15
LEFTY2	rs360058	1	225889219	T	G	0.3981	-0.18	9.7724E-102	0.008405489	35559	458.56
LEFTY2	rs360059	1	225889432	A	G	0.3981	-0.71	1E-200	0.018457184	35559	1479.66
RSPO1	rs36043533	1	37613845	G	T	0.0414	0.44	1.5488E-102	0.020464887	35559	462.23
CHGB	rs36054946	20	5886044	C	T	0.0143	-0.29	1.44544E-16	0.035105014	35559	68.24
EPHA2	rs36086195	1	16184399	C	T	0.43	0.14	1.28825E-62	0.008382717	35559	278.91
VAV1	rs36097961	19	6850756	T	C	0.0987	-0.11	1.41254E-16	0.013311267	35559	68.28

FLRT2	rs36101989	14	85343485	T	G	0.2813	-0.27	1.7783E-199	0.008960203	35559	907.96
CPN2	rs3732477	3	194341790	T	C	0.2299	-0.5	1E-200	0.012998017	35559	1479.66
TXNDC15	rs3733897	5	134887903	G	A	0.1257	0.47	1E-200	0.01222386	35559	1478.27
ECM1	rs3737240	1	150510879	T	C	0.3406	-0.67	1E-200	0.017417343	35559	1479.66
FGR	rs3737801	1	27634321	G	C	0.0673	-0.27	9.77237E-62	0.01628498	35559	274.87
IMPAD1	rs3739364	8	56960589	C	T	0.0991	-0.22	3.01995E-51	0.014609349	35559	226.76
CDON	rs3740910	11	126019778	G	A	0.077	-0.66	1E-200	0.017157383	35559	1479.66
PSME1	rs3742500	14	24142769	T	G	0.2505	0.06	1.38038E-10	0.009348646	35559	41.19
GFER	rs3743846	16	2000345	G	A	0.2039	-0.07	4.46684E-11	0.010625859	35559	43.4
RETN	rs3745368	19	7670411	A	G	0.0386	-0.67	6.6069E-192	0.022673592	35559	873.14
LILRB3	rs3745410	19	54217027	G	A	0.0662	1.64	1E-200	0.042633496	35559	1479.66
KLK12	rs3745540	19	51031874	A	G	0.4185	0.14	4.16869E-63	0.008349131	35559	281.16
PLA2R1	rs3749117	2	160028931	T	C	0.4524	0.76	1E-200	0.019756986	35559	1479.66
RNASET2	rs3756838	6	166957763	A	G	0.1938	0.3	4.8978E-196	0.010043683	35559	892.14
TPP1	rs3758978	11	6620437	G	C	0.4111	0.13	1.69824E-52	0.008525724	35559	232.49
CINP	rs3759562	14	102365480	G	A	0.2676	-0.06	4.89779E-10	0.009642667	35559	38.72
KLK14	rs3760739	19	51035305	T	G	0.3502	-0.06	7.76247E-11	0.009223486	35559	42.31
TFF1	rs3761376	21	42366929	A	G	0.2481	-0.38	1E-200	0.009878493	35559	1479.66
OBP2B	rs3761822	9	133210436	G	A	0.1997	-0.37	1E-200	0.010326799	35559	1283.65
B4GALT2	rs3762423	1	43979995	C	T	0.0304	-0.55	1.7378E-127	0.022898018	35559	576.91
MAPK9	rs3763131	5	180307312	C	T	0.2005	0.18	1.12202E-75	0.009778069	35559	338.86
CHIT1	rs3766537	1	203226749	T	G	0.205	0.17	1.7378E-67	0.009794165	35559	301.26
CHIT1	rs3766568	1	203131901	A	G	0.3148	0.14	2.34423E-66	0.00813612	35559	296.07
IGF2R	rs3777399	6	160092761	A	G	0.1078	0.59	1E-200	0.01533766	35559	1479.66
LAG3	rs3782735	12	6775910	G	A	0.3827	-0.13	7.94328E-52	0.008582618	35559	229.42
MAPRE2	rs3786314	18	35140225	G	A	0.4566	-0.15	1.20226E-73	0.008262818	35559	329.54
SERPINA10	rs3790037	14	94284671	A	C	0.1997	0.85	2.29087E-20	0.09191341	35559	85.52
SCUBE3	rs3800403	6	35170473	A	G	0.138	-0.27	4.0738E-122	0.011489337	35559	552.22
PDIA5	rs3804749	3	123114156	C	T	0.3447	0.63	1E-200	0.016377502	35559	1479.66
C7	rs380649	5	41263747	A	G	0.3019	0.27	1.3183E-191	0.009144348	35559	871.76
MAPK3	rs3809627	16	30091839	A	C	0.4224	0.08	6.91831E-11	0.012265391	35559	42.54
STX7	rs3813356	6	132513379	T	C	0.3747	-0.12	7.94328E-46	0.008444761	35559	201.91
FOXO3	rs3813498	6	108622962	C	T	0.1804	0.06	9.77237E-10	0.009815013	35559	37.37
PDGFRB	rs3816018	5	150128912	C	T	0.4783	-1.18	1E-200	0.030675321	35559	1479.66
MYBPC1	rs3817552	12	101651385	G	C	0.1536	-0.11	1.99526E-20	0.011875724	35559	85.79

BPIFA2	rs3818222	20	33225117	G	A	0.4925	0.08	6.91831E-21	0.008533344	35559	87.89
MANSC1	rs3825259	12	12343701	G	A	0.0955	0.38	2.6915E-166	0.013825985	35559	755.35
TMEM132B	rs3825381	12	125652317	T	C	0.2584	-0.16	2.5704E-68	0.0091603	35559	305.07
LGALS3BP	rs3826311	17	78975444	C	T	0.2027	0.2	4.7863E-81	0.01048956	35559	363.51
SERPINB8	rs3826616	18	63987229	A	G	0.4142	0.18	2.3442E-108	0.008139828	35559	488.98
NUCB1	rs3826817	19	48898187	T	C	0.2678	-0.14	1.34896E-56	0.008831362	35559	251.29
PTK7	rs3828755	6	43147482	G	A	0.4627	0.08	1.04713E-24	0.007795887	35559	105.3
IGFBP1	rs3828998	7	45889209	C	T	0.3879	-0.08	3.63078E-21	0.008472097	35559	89.16
PLA2G12B	rs3829126	10	72954419	T	G	0.0978	-0.15	1.28825E-27	0.01377427	35559	118.58
TXNDC5	rs383084	6	7899424	T	C	0.3662	-0.12	5.12861E-46	0.008426612	35559	202.78
CD177	rs3896477	19	43188786	C	A	0.0115	-0.57	4.89779E-63	0.034012326	35559	280.84
IL1RL2	rs3917265	2	102162001	T	C	0.44	0.16	2.39883E-83	0.008272322	35559	374.08
SELL	rs3917775	1	169601838	C	T	0.4356	-0.24	1.0233E-193	0.008083437	35559	881.47
VEGFA	rs3929925	6	43971636	A	G	0.4991	-0.11	1.58489E-39	0.008361599	35559	173.05
MTHFSD	rs3950702	16	86534448	T	C	0.399	-0.32	1E-200	0.008318731	35559	1479.66
WFDC1	rs400345	16	84294888	T	C	0.21	-0.44	1E-200	0.011438255	35559	1479.66
LILRA5	rs4022330	19	54277989	C	T	0.4012	0.09	3.01995E-17	0.010656196	35559	54.41
B3GNT2	rs4073090	2	62336639	G	A	0.4475	0.16	1.86209E-86	0.008118768	35559	388.36
GLB1	rs4075736	3	32993106	A	G	0.1964	0.06	3.46737E-11	0.009056306	35559	43.89
S100A4	rs41265162	1	153547662	T	C	0.0446	0.21	3.54813E-27	0.019449465	35559	116.57
CTSS	rs41271951	1	150764744	G	A	0.0891	-0.7	1E-200	0.018197224	35559	1479.66
VEGFC	rs41278571	4	176729712	T	C	0.02	0.4	1.20226E-45	0.028206876	35559	201.09
LIPN	rs41284092	10	88778153	T	G	0.0019	-0.71	1.20226E-17	0.083014574	35559	73.14
TNFSF14	rs413141	19	6675978	A	G	0.142	0.17	6.91831E-51	0.011330354	35559	225.11
MSR1	rs41341748	8	16155085	A	G	0.0057	-1.65	6.0256E-198	0.054970251	35559	900.92
CCL23	rs41341749	17	35983666	G	A	0.0366	0.61	3.02E-166	0.022197724	35559	755.12
SWAP70	rs415895	11	9748015	C	G	0.3551	0.42	1E-200	0.010918334	35559	1479.66
FGG	rs4220	4	154570607	A	G	0.1537	0.18	2.88403E-54	0.011604024	35559	240.6
PTGFRN	rs4233450	1	116947639	G	T	0.1744	-0.84	1E-200	0.021836669	35559	1479.66
NMT2	rs4237446	10	15199924	C	T	0.1965	0.08	1.1749E-13	0.010782277	35559	55.05
CCL5	rs4239252	17	35836561	A	G	0.1846	-0.26	1.0715E-132	0.010606583	35559	600.86
ESM1	rs4242051	5	54902947	T	C	0.2411	-0.15	2.04174E-55	0.009565746	35559	245.88
PSMB4	rs4246527	1	151431472	C	T	0.1364	-0.64	1E-200	0.016637462	35559	1479.66
BRSK2	rs4255564	11	1384495	C	T	0.2146	0.17	2.45471E-70	0.009588199	35559	314.34
CST2	rs4260306	20	23749699	T	C	0.255	-0.55	1E-200	0.014297819	35559	1479.66

CST1	rs4260306	20	23749699	T	C	0.255	-0.56	1E-200	0.014557779	35559	1479.66
LZIC	rs4265433	1	10065497	A	G	0.0224	-0.17	2.63027E-10	0.026902405	35559	39.93
PSG5	rs429358	19	44908684	C	T	0.1741	-0.34	1E-200	0.010525045	35559	1043.48
IL12RB1	rs429774	19	18075942	C	T	0.3049	-0.08	3.46737E-20	0.008692422	35559	84.7
REG3G	rs430601	2	79016371	A	T	0.3302	-0.34	1E-200	0.009052247	35559	1410.65
NT5C3A	rs4316067	7	33041902	G	A	0.2777	-0.08	9.77237E-22	0.008351358	35559	91.76
ACE	rs4363	17	63497131	G	A	0.4979	0.62	1E-200	0.016117541	35559	1479.66
RNASE6	rs4377066	14	20718622	T	C	0.1251	0.09	7.76247E-13	0.012560561	35559	51.34
UNC5C	rs4380535	4	95428256	T	C	0.3607	-0.05	1.65959E-10	0.007824808	35559	40.83
OLFML3	rs4381184	1	113947147	A	C	0.2987	-0.09	1.38038E-24	0.008793262	35559	104.75
QPCT	rs4384764	2	37363141	A	G	0.2873	0.22	3.1623E-127	0.00916871	35559	575.71
STARD5	rs4392019	15	81324218	T	C	0.0138	0.71	2.04174E-97	0.033896726	35559	438.71
APP	rs439826	21	26156328	T	G	0.3171	0.08	7.58578E-19	0.009023291	35559	78.6
LILRA6	rs4405671	19	54225910	T	C	0.1778	0.38	1E-200	0.011285983	35559	1133.61
TREM1	rs4424081	6	41308053	A	G	0.2996	0.32	1E-200	0.008837848	35559	1310.94
IL10RB	rs4455239	21	33281729	C	T	0.4347	0.07	3.80189E-18	0.008060276	35559	75.42
MASP1	rs4455312	3	187244238	A	C	0.3215	0.06	1.51356E-10	0.009369141	35559	41.01
PLEKHA7	rs446518	11	16856962	T	C	0.1061	0.66	1E-200	0.017157383	35559	1479.66
RGS18	rs4495675	1	192158507	T	G	0.4504	0.06	7.94328E-12	0.008772485	35559	46.78
PDCD5	rs4499344	19	32582525	A	G	0.2879	0.2	3.63078E-97	0.009560898	35559	437.56
SLITRK5	rs4502088	13	88602637	T	A	0.4386	-0.11	1.14815E-38	0.008458379	35559	169.12
GLTPD2	rs4523990	17	4725146	A	G	0.2462	0.1	2.13796E-26	0.009406448	35559	113.01
ST8SIA6	rs45462798	10	17453620	A	T	0.0359	-0.13	1.31826E-09	0.021433909	35559	36.78
GFRA1	rs4550150	10	116226964	A	G	0.274	0.2	7.0795E-103	0.009286541	35559	463.8
GSTO1	rs45596840	10	104268396	A	G	0.3218	-0.82	1E-200	0.021316748	35559	1479.66
PSME2	rs4575	14	24146226	C	T	0.3082	0.08	2.95121E-20	0.008676115	35559	85.02
ART3	rs4599438	4	76106989	A	G	0.3991	0.08	1.99526E-13	0.010885667	35559	54.01
ARFIP1	rs4619875	4	152779978	T	C	0.3724	0.22	8.5114E-154	0.008327655	35559	697.87
ALDH3A1	rs4646787	17	19745936	A	G	0.3358	-0.13	6.76083E-53	0.00849229	35559	234.32
NADK	rs4648629	1	1764023	A	C	0.4504	-0.12	9.12011E-53	0.007849027	35559	233.73
ANGPTL1	rs4650995	1	178548181	T	C	0.4923	-0.3	1E-200	0.007948222	35559	1424.55
PPT1	rs4660386	1	40094562	T	C	0.2995	0.16	1.04713E-71	0.008935245	35559	320.63
PEAR1	rs4661012	1	156915699	G	T	0.3625	-0.19	1.6982E-110	0.008506918	35559	498.81
WIF1	rs466104	12	64937575	C	T	0.4349	-0.06	5.62341E-13	0.008322566	35559	51.97
FKBP2	rs4672	11	64242407	A	G	0.0878	-0.08	1.34896E-09	0.013198153	35559	36.74

IGFBP2	rs4674100	2	216615701	A	G	0.2564	-0.06	1.69824E-09	0.009959634	35559	36.29
EDAR	rs4676225	2	108993309	G	A	0.2792	-0.28	1E-200	0.009119959	35559	942.55
PLXNA1	rs4679138	3	126992227	G	A	0.3036	-0.25	2.9512E-182	0.008683893	35559	828.76
BOC	rs4682481	3	113265008	T	C	0.1632	0.27	3.2359E-128	0.011208294	35559	580.26
CLSTN2	rs4683518	3	140716808	A	G	0.2999	0.13	4.67735E-51	0.008649427	35559	225.89
AHSG	rs4686790	3	186604193	G	T	0.2935	-0.36	1E-200	0.009358572	35559	1479.66
HGFAC	rs4690098	4	3445429	T	C	0.2836	0.31	1E-200	0.008314635	35559	1389.99
EGF	rs4698801	4	109961320	A	C	0.3356	0.1	1.8197E-30	0.008716723	35559	131.6
PPA2	rs4699179	4	105474024	A	G	0.2647	0.1	3.46737E-31	0.00860973	35559	134.9
TIMD4	rs4704826	5	156965071	C	A	0.3579	0.24	1.0471E-168	0.008668834	35559	766.44
CD109	rs4708089	6	73804430	G	A	0.4312	0.52	1E-200	0.013517938	35559	1479.66
PCSK9	rs472495	1	55055640	G	T	0.3573	-0.14	3.63078E-61	0.008484524	35559	272.26
EPHA1	rs4725617	7	143400007	A	G	0.101	-1.2	1E-200	0.031195241	35559	1479.66
AOC1	rs4725938	7	150763916	A	G	0.3857	0.3	1E-200	0.00779881	35559	1479.66
GSR	rs4733505	8	30695913	A	G	0.339	-0.1	1.02329E-33	0.008262693	35559	146.46
FJX1	rs474415	11	35621175	A	G	0.3782	0.12	9.54993E-47	0.008357952	35559	206.13
ALDH3B1	rs475325	11	68017592	T	C	0.2336	0.14	6.16595E-47	0.009730414	35559	207
PFKM	rs4760682	12	48118502	C	A	0.1931	-0.2	6.30957E-90	0.009946403	35559	404.3
LYZ	rs4761234	12	69338325	C	T	0.486	-0.49	1E-200	0.012738057	35559	1479.66
ALDH2	rs4766462	12	111433337	T	A	0.2714	-0.09	2.95121E-21	0.009509273	35559	89.57
MYZAP	rs4774967	15	57563562	T	G	0.3458	0.07	1.90546E-18	0.007988361	35559	76.78
SECTM1	rs4789763	17	82331408	G	A	0.4804	0.18	1.0233E-114	0.007906934	35559	518.21
CA10	rs4793712	17	51639018	A	G	0.4766	-0.11	1.69824E-39	0.00836492	35559	172.92
KRT20	rs4796667	17	41522464	T	C	0.3592	0.06	1.69824E-12	0.00850189	35559	49.8
STAT3	rs4796791	17	42378745	T	C	0.4114	-0.15	4.2658E-78	0.008017988	35559	349.97
CD209	rs4804774	19	7707287	C	G	0.2173	-0.36	1E-200	0.0095623	35559	1417.28
TMEM190	rs4806666	19	55376727	T	C	0.4569	-1.01	1E-200	0.026255995	35559	1479.66
COLGALT1	rs4808666	19	17557324	T	C	0.4465	-0.13	3.38844E-58	0.008083357	35559	258.63
NCAM2	rs4818592	21	20999767	G	C	0.3422	-0.06	6.60693E-12	0.008738829	35559	47.14
PDXK	rs4818855	21	43619070	C	T	0.4189	0.13	6.91831E-59	0.008034342	35559	261.8
TIMP3	rs4821102	22	32770241	C	A	0.2264	0.78	1E-200	0.020276907	35559	1479.66
CRYBB1	rs4822754	22	26616930	A	G	0.3933	0.17	2.39883E-93	0.008294813	35559	420.01
IL18RAP	rs4851010	2	102439667	T	A	0.3258	0.08	1.04713E-21	0.008357586	35559	91.62
IL1R2	rs4851521	2	101993894	T	C	0.429	-0.41	1E-200	0.010658374	35559	1479.66
CETN3	rs4873	5	90407824	G	C	0.289	-0.08	2.13796E-19	0.008883011	35559	81.1

TNFRSF11B	rs4876836	8	118434718	G	A	0.3947	-0.09	9.12011E-25	0.008758995	35559	105.57
GAS1	rs4878043	9	87072939	C	T	0.4227	-0.08	7.24436E-24	0.007941722	35559	101.47
GLIPR2	rs4878643	9	36153440	C	G	0.2907	-0.28	1E-200	0.009161185	35559	934.09
KIAA1161	rs4879780	9	34367518	A	G	0.3862	-0.12	7.07946E-51	0.007998712	35559	225.06
PHPT1	rs4880150	9	136875889	C	T	0.2584	0.21	1.2589E-115	0.009187753	35559	522.39
ID11	rs4880758	10	1039632	G	C	0.0687	-0.11	6.16595E-11	0.01682045	35559	42.76
TMEM132C	rs4882694	12	128417042	T	C	0.459	-0.14	1.65959E-62	0.008390313	35559	278.4
ISLR2	rs4887134	15	74317938	A	T	0.3653	0.23	4.6774E-158	0.008586506	35559	717.46
IGFBP4	rs4890114	17	40447297	G	A	0.4529	0.06	5.49541E-12	0.008705552	35559	47.5
MRVI1	rs4910165	11	10652497	C	G	0.3449	0.11	1.07152E-39	0.008342857	35559	173.83
TMEM9	rs4915486	1	201141835	T	C	0.3371	0.07	2.63027E-15	0.008852577	35559	62.52
LAYN	rs4938792	11	111550211	C	T	0.3765	-0.05	3.31131E-10	0.007957406	35559	39.48
TMEM132A	rs4939474	11	60896157	G	A	0.4996	-0.3	1E-200	0.008611925	35559	1213.44
METTLL24	rs4947065	6	110344779	T	C	0.0821	-0.17	6.0256E-34	0.0139964	35559	147.52
REN	rs4951315	1	204188040	A	C	0.2614	-0.06	3.89045E-10	0.009587175	35559	39.16
HRASLS2	rs4963424	11	63559149	T	A	0.331	-0.05	3.54813E-10	0.007971034	35559	39.34
AGRN	rs4970394	1	1027511	C	T	0.4588	-0.24	2.884E-178	0.008430398	35559	810.4
FCRL1	rs4971154	1	157802090	C	T	0.4646	0.38	1E-200	0.009878493	35559	1479.66
CCS	rs498045	11	66595526	A	G	0.4484	-0.11	8.31764E-45	0.007832211	35559	197.24
TPSAB1	rs4984639	16	1222865	G	A	0.2891	-0.51	1E-200	0.013257978	35559	1479.66
DECR2	rs4984667	16	411697	T	C	0.4576	-0.23	1.09648E-71	0.012846255	35559	320.54
LCT	rs4988235	2	135851076	G	A	0.1707	-1.05	1E-200	0.027295836	35559	1479.66
LTF	rs5015750	3	46457913	A	G	0.0866	0.18	8.31764E-38	0.014004958	35559	165.18
TNFAIP3	rs5029937	6	137874014	T	G	0.0254	0.4	2.34423E-55	0.025522943	35559	245.6
KNR1	rs5030062	3	186736391	C	A	0.3555	0.36	1E-200	0.009358572	35559	1479.66
KNR1	rs5030095	3	186743560	C	G	0.1132	-0.37	3.7154E-156	0.013897958	35559	708.72
ICAM4	rs5030377	19	10282558	G	A	0.4268	-0.09	4.36516E-28	0.008190757	35559	120.73
MBL2	rs5030737	10	52771482	A	G	0.0526	-0.77	1E-200	0.020016946	35559	1479.66
ARRB1	rs504683	11	75340189	G	A	0.3039	0.08	9.77237E-20	0.008799473	35559	82.65
ACADVL	rs507506	17	7215003	A	G	0.4419	0.05	1.14815E-09	0.008213793	35559	37.05
APOC1	rs5112	19	44927023	G	C	0.4878	0.3	1E-200	0.008112761	35559	1367.35
SERPINH1	rs514887	11	75581004	G	A	0.4409	-0.12	1.07152E-52	0.007854422	35559	233.4
MMP1	rs534191	11	102800966	T	C	0.4485	0.43	1E-200	0.011178295	35559	1479.66
SERPINA4	rs5511	14	94567258	T	A	0.2442	0.45	1E-200	0.011698215	35559	1479.66
CRISP2	rs555247	6	49742392	A	G	0.4941	0.56	1E-200	0.014557779	35559	1479.66

TGFBR3	rs55649112	1	91582253 T	C	0.1497	0.12	2.0893E-26	0.011285459	35559	113.06
PRSS8	rs55667375	16	31144137 T	C	0.2822	0.07	7.58578E-14	0.009361652	35559	55.91
IL1RN	rs55709272	2	113109711 C	T	0.4887	-0.18	1.5488E-111	0.008020849	35559	503.59
ASGR1	rs55714927	17	7176997 T	C	0.2117	-0.1	8.12831E-17	0.01200573	35559	69.37
NLGN1	rs557382	3	173395769 G	T	0.2958	0.13	2.51189E-49	0.008805392	35559	217.95
PTPRS	rs55763631	19	5293572 A	C	0.0693	0.2	3.89045E-33	0.016677108	35559	143.81
CAMP	rs55771110	3	47305227 A	G	0.1494	0.11	1.31826E-21	0.01152036	35559	72.55
FKBP1B	rs55788848	2	24045851 T	C	0.2085	-0.26	1.0965E-148	0.010011762	35559	674.37
DNAJB14	rs55797991	4	99850238 T	C	0.1233	-0.08	3.01995E-12	0.011466587	35559	48.67
WFIKKN1	rs55798945	16	619708 G	T	0.3602	0.15	4.46684E-70	0.008476282	35559	313.15
TMEM132D	rs55851595	12	129595744 T	C	0.0703	0.65	1E-200	0.016897422	35559	1479.66
CTSD	rs55861089	11	1762527 G	A	0.1135	-0.33	1.3804E-142	0.012980026	35559	646.33
SEPW1	rs55887923	19	47773983 G	A	0.4797	-0.11	3.80189E-43	0.007987722	35559	189.63
SEMA5A	rs56015217	5	9547721 T	C	0.0875	1.42	1E-200	0.036914369	35559	1479.66
SEMA3E	rs56022007	7	83639843 G	A	0.1322	-0.27	4.16869E-57	0.016953186	35559	253.63
FHIT	rs56027740	3	61101142 G	A	0.4556	-0.06	5.24807E-15	0.007671831	35559	61.16
ENGASE	rs56107536	17	79074958 A	C	0.1368	0.61	1E-200	0.015857581	35559	1479.66
C1orf198	rs56148170	1	230872285 G	A	0.1296	0.14	3.98107E-33	0.011675832	35559	143.77
DTD2	rs56183134	14	31438588 C	T	0.1111	-0.16	6.30957E-34	0.013177169	35559	147.43
CFD	rs56236063	19	859374 C	T	0.0278	-0.17	8.12831E-11	0.026161064	35559	42.22
SMOC2	rs56296467	6	168463127 C	T	0.2612	-0.31	1E-200	0.009284366	35559	1114.79
LCN1	rs56307603	9	135514751 C	T	0.1513	-0.09	9.54993E-17	0.010829997	35559	69.06
APOB	rs563290	2	21065354 G	A	0.1402	-0.09	1.99526E-13	0.012246376	35559	54.01
TNFSF15	rs56339337	9	114798680 G	A	0.133	-0.07	9.54993E-10	0.011443974	35559	37.41
CTSZ	rs56352943	20	59003365 G	A	0.131	0.11	3.80189E-18	0.012666147	35559	75.42
ADAMTSL2	rs56355857	9	133540118 G	C	0.2395	-0.08	6.45654E-15	0.010263394	35559	60.75
PDE5A	rs56905341	4	119655663 C	T	0.1988	-0.15	2.13796E-41	0.011130124	35559	181.62
FCN2	rs57136797	9	134860694 T	A	0.1376	-0.57	1E-200	0.01481774	35559	1479.66
FCRL6	rs57198275	1	159815106 A	G	0.1824	-0.15	3.01995E-47	0.010389849	35559	208.42
PLXNC1	rs57244134	12	94267442 A	G	0.0173	-0.43	1.62181E-46	0.030026198	35559	205.07
FBP2	rs573212	9	94587384 C	G	0.1123	-0.2	3.80189E-56	0.012668366	35559	249.23
TLR1	rs5743618	4	38797027 A	C	0.3482	0.13	2.0893E-53	0.008450226	35559	236.66
CD14	rs5744454	5	140633982 G	T	0.3075	-0.24	3.5481E-161	0.008871566	35559	731.81
GSTT1	rs5751792	22	24005096 G	A	0.4966	-0.55	4.57088E-75	0.030001677	35559	336.05
TCN2	rs5753231	22	30607082 T	C	0.2069	-0.47	1E-200	0.0125431	35559	1403.98

LGALS2	rs5756736	22	37574182	G	A	0.4375	0.21	3.2359E-148	0.008099411	35559	672.21
A4GALT	rs5758871	22	42699594	C	T	0.3961	0.08	1.62181E-17	0.009391757	35559	72.55
LRRC15	rs58182031	3	194366591	A	G	0.1179	0.46	1E-200	0.01284494	35559	1282.41
NME4	rs5841	16	400309	T	C	0.425	-0.1	1.62181E-20	0.010770421	35559	86.2
CD300C	rs58440339	17	74543335	T	C	0.113	0.17	1E-42	0.012407764	35559	187.71
GRN	rs5848	17	44352876	T	C	0.2556	-0.22	2.0417E-119	0.009468686	35559	539.81
TEC	rs58762758	4	48215229	G	A	0.4926	0.11	4.46684E-41	0.008195224	35559	180.15
MAGI2	rs59169073	7	79428907	C	T	0.1597	0.57	1E-200	0.01481774	35559	1479.66
CEL	rs592267	9	133065586	T	C	0.0237	0.97	1E-200	0.027680403	35559	1227.93
CRHBP	rs59271908	5	76945507	C	T	0.0312	-0.5	7.7625E-99	0.023695391	35559	445.23
TESC	rs59756806	12	117041214	C	T	0.3676	-0.53	1E-200	0.013777898	35559	1479.66
POR	rs59882870	7	76009103	A	G	0.1606	0.19	2.75423E-71	0.010642651	35559	250.05
HSPB1	rs59882870	7	76009103	A	G	0.1606	0.17	2.51189E-56	0.01075032	35559	250.05
CCDC134	rs5996067	22	41802533	A	G	0.3952	0.1	3.89045E-37	0.007853781	35559	162.11
TCEA2	rs6011275	20	64068875	G	T	0.3271	-0.14	1.99526E-64	0.008260621	35559	287.21
UNC5B	rs60127485	10	71312789	C	G	0.0361	-0.33	2.51189E-45	0.023355984	35559	199.62
CRADD	rs60169972	12	93837506	C	G	0.1731	-0.07	9.77237E-11	0.010818445	35559	41.86
CBLN4	rs6024417	20	55794632	G	A	0.2974	-0.15	1.94984E-61	0.00906995	35559	273.49
BPI	rs6024863	20	38322588	T	A	0.1048	-0.31	1.65959E-62	0.01857855	35559	278.4
B3GALT6	rs60252802	1	1231507	C	T	0.1451	-0.07	2.95121E-10	0.011108783	35559	39.7
FAM3B	rs60265870	21	41345040	A	G	0.0468	-0.55	6.7608E-182	0.019123678	35559	827.1
YWHAB	rs6031847	20	44885562	T	C	0.2594	-0.18	3.23594E-87	0.009092839	35559	391.85
SPINT3	rs6032259	20	45512691	A	G	0.4951	-0.3	1E-200	0.00779881	35559	1479.66
CST5	rs6036565	20	23874077	T	G	0.4299	0.37	1E-200	0.009618533	35559	1479.66
APMAP	rs6036977	20	24921032	C	T	0.1192	0.16	2.34423E-38	0.012355047	35559	167.7
SIRPG	rs6043409	20	1635560	A	G	0.3178	-0.15	8.51138E-70	0.008493731	35559	311.86
PCSK2	rs6044699	20	17249972	A	G	0.4986	0.08	1.31826E-24	0.007812831	35559	104.84
ENTPD6	rs6050446	20	25214873	A	G	0.0316	-0.34	2.29087E-47	0.023519313	35559	208.97
SEMA6A	rs607350	5	116613097	A	T	0.2071	-0.07	2.34423E-11	0.010474655	35559	44.66
RGMB	rs61048056	5	98439496	A	G	0.4396	-0.14	9.77237E-67	0.008112262	35559	297.82
FLRT3	rs6105236	20	14267811	C	T	0.1671	-0.11	9.33254E-35	0.008944847	35559	151.22
CST3	rs6114209	20	23641629	C	G	0.2104	-0.25	1.3183E-138	0.009975582	35559	628.03
PROC	rs61185143	2	127407902	T	C	0.4284	-0.14	1.69824E-70	0.007886955	35559	315.07
SERPINA5	rs6119	14	94587675	G	A	0.1011	0.35	3.7154E-149	0.013455828	35559	676.54
SERPINA3	rs6119	14	94587675	G	A	0.1011	-0.11	1.41254E-14	0.014294593	35559	676.54

BMP7	rs6123685	20	57260984	A	G	0.2317	0.06	7.24436E-11	0.009208797	35559	42.45
CR2	rs61240730	1	207450585	C	T	0.1419	-0.25	3.01995E-94	0.012138653	35559	424.15
GPCPD1	rs6133228	20	5571430	A	G	0.3887	0.07	2.75423E-17	0.008277615	35559	71.51
FLRT3	rs6135225	20	14697489	T	G	0.2858	-0.54	1E-200	0.014037859	35559	1479.66
SIRPA	rs6136377	20	1915642	G	A	0.3595	-1.26	1E-200	0.032755003	35559	1479.66
RSPO4	rs6140899	20	994605	G	A	0.0795	-0.1	2.45471E-10	0.015798274	35559	40.06
SEMA3E	rs61729612	7	83408415	G	C	0.1466	-1.05	1E-200	0.027295836	35559	1479.66
CDNF	rs61738953	10	14820083	G	C	0.0401	-0.76	1E-200	0.021029045	35559	1306.06
EMILIN3	rs61739314	20	41361737	C	G	0.0386	-0.67	1E-200	0.021475499	35559	973.28
TPSAB1	rs61739908	16	1256641	T	C	0.1953	0.16	2.23872E-43	0.011586361	35559	190.69
LTF	rs61740470	3	46450495	T	C	0.0081	-1.11	6.4565E-133	0.045243888	35559	601.87
ENTHD2	rs61745945	17	81231621	A	G	0.0223	-0.22	2.45471E-16	0.026837504	35559	67.19
SVEP1	rs61751937	9	110549951	C	G	0.0342	0.74	1E-200	0.022767849	35559	1229.4
PGM1	rs61765292	1	63647788	G	A	0.1796	0.12	4.36516E-29	0.010720071	35559	125.3
ROR1	rs61765448	1	64146145	T	C	0.1711	-0.3	8.9125E-169	0.010833768	35559	766.76
AKR7A2	rs61766662	1	19330519	C	T	0.3241	-0.15	1.8197E-68	0.008578107	35559	305.76
LEPR	rs61781309	1	65617112	A	G	0.1696	-1.39	1E-200	0.036134488	35559	1479.66
CD58	rs61789227	1	116537006	G	A	0.0211	0.67	6.7608E-130	0.027629909	35559	587.99
FCRLB	rs61801180	1	161718974	C	G	0.1023	0.59	1E-200	0.01533766	35559	1479.66
F5	rs61808983	1	169505159	T	C	0.0717	-0.65	1E-200	0.016897422	35559	1479.66
CD55	rs61822669	1	207247869	A	G	0.2592	-0.41	1E-200	0.010658374	35559	1479.66
GUK1	rs61825157	1	228111751	T	C	0.0672	0.36	2.5704E-108	0.016282716	35559	488.8
HTRA1	rs61871680	10	122310940	A	G	0.1954	0.11	7.07946E-26	0.0104575	35559	110.64
NCAM1	rs61902388	11	112771352	C	T	0.4515	-0.13	1.51356E-53	0.008438787	35559	237.3
CD4	rs61916271	12	6781356	A	G	0.2098	-0.06	4.67735E-10	0.009631493	35559	38.81
KIRREL2	rs619833	19	35853604	A	G	0.0424	-0.26	9.77237E-37	0.020536118	35559	160.28
LINGO1	rs62007781	15	77734259	A	G	0.386	0.06	3.98107E-13	0.008268787	35559	52.65
CTSH	rs62013199	15	78937302	G	A	0.0925	0.48	1E-200	0.012478097	35559	1479.66
USP8	rs62019074	15	50433826	C	T	0.1614	0.1	1.09648E-20	0.010722384	35559	86.97
CBLN1	rs62029101	16	49379117	G	A	0.0525	0.28	7.4131E-48	0.019265598	35559	211.22
NPTX1	rs62069681	17	80650902	C	T	0.1275	0.5	1E-200	0.012998017	35559	1479.66
NOTUM	rs62078699	17	81967584	A	G	0.0608	0.14	1.94984E-16	0.017021014	35559	67.65
P4HB	rs62079523	17	82394427	A	G	0.3523	0.08	3.54813E-14	0.010558869	35559	57.4
SERPINF1	rs62088172	17	1762959	T	C	0.3384	-0.28	1E-200	0.008568525	35559	1067.77
CD177	rs62113716	19	43330924	A	G	0.0847	-0.64	1E-200	0.016637462	35559	1479.66

PRTN3	rs62132278	19	836654 T	C	0.2796	0.43	1E-200	0.014195	35559	917.58
DBI	rs62157028	2	119387010 C	T	0.264	0.08	1.38038E-16	0.009677705	35559	68.33
LY75	rs62175229	2	159821048 C	T	0.4491	-0.34	1E-200	0.009349608	35559	1322.35
DNER	rs62193248	2	229732201 T	A	0.3405	-0.18	6.3096E-101	0.008439809	35559	454.84
NDRG3	rs62210514	20	36444238 G	A	0.0254	-0.22	1.1749E-18	0.024951589	35559	77.74
COL6A1	rs62215496	21	45982420 T	C	0.1779	-0.07	1.34896E-13	0.009457847	35559	54.78
CHL1	rs62230378	3	382221 G	A	0.0308	-0.31	1.51356E-39	0.023558275	35559	173.15
CDCP1	rs62242502	3	45068106 G	C	0.1287	0.11	2.69153E-18	0.012609266	35559	76.1
CD200R1	rs62263730	3	112859161 A	G	0.3474	0.12	1.44544E-42	0.008775571	35559	186.98
SLITRK3	rs62282372	3	165194166 G	C	0.1107	-0.5	1E-200	0.013084062	35559	1460.26
ACAP2	rs62285629	3	195469445 A	T	0.2343	-0.06	4.0738E-10	0.009598198	35559	39.07
HADH	rs62311449	4	108029993 A	G	0.065	-0.14	5.88844E-18	0.016213661	35559	74.55
HTN3	rs62322489	4	70380070 A	T	0.0538	-0.13	3.80189E-14	0.017178503	35559	57.27
PDCD6	rs62330028	5	319042 A	G	0.0422	0.14	2.69153E-11	0.021013039	35559	44.39
PCSK1	rs6235	5	96393194 G	C	0.2859	-0.88	1E-200	0.02287651	35559	1479.66
GHR	rs62372052	5	42724192 G	A	0.1072	-0.3	1.1482E-108	0.01354666	35559	490.4
CLINT1	rs62389053	5	157863943 T	C	0.1464	-0.08	2.04174E-11	0.011934942	35559	44.93
THBS2	rs62435801	6	169099069 G	A	0.1582	0.08	5.24807E-13	0.011082303	35559	52.11
TFPI2	rs62466701	7	93956351 C	T	0.0658	0.11	1.62181E-11	0.01632881	35559	45.38
PTN	rs62490463	7	137499806 C	T	0.0336	-0.13	1.77828E-09	0.021605938	35559	36.2
CPQ	rs62508627	8	97055588 C	G	0.0124	-0.32	1.62181E-16	0.038801159	35559	68.01
ST3GAL1	rs62520289	8	133539388 C	G	0.1944	-0.07	1.47911E-11	0.010370469	35559	45.56
SFRP1	rs62642270	8	41140689 G	A	0.1617	-0.15	1.20226E-38	0.011537277	35559	169.03
MGAT1	rs634501	5	180791668 A	G	0.258	-0.06	2.81838E-12	0.008587997	35559	48.81
ECI2	rs634698	6	4114013 A	T	0.2904	-0.43	1E-200	0.011178295	35559	1479.66
KRT5	rs641615	12	52519125 T	G	0.2322	-0.16	1.8197E-61	0.009672179	35559	273.63
KRT1	rs641621	12	52519122 T	G	0.2322	-0.08	1.28825E-16	0.009668073	35559	68.47
SEPSECS	rs6448333	4	25115419 T	C	0.0366	-0.16	4.67735E-14	0.021218409	35559	56.86
TNFRSF21	rs6458555	6	47309833 A	G	0.3517	0.11	3.23594E-40	0.008286299	35559	176.21
PLXNA4	rs6467443	7	132553252 T	G	0.1854	0.1	2.88403E-22	0.010304466	35559	94.17
FAM49B	rs6470800	8	130088714 G	T	0.4435	0.05	6.60693E-10	0.008096871	35559	38.13
CRAT	rs6478861	9	129092024 C	T	0.3161	-0.09	1.1749E-25	0.008595229	35559	109.63
DKK1	rs6480949	10	52675662 T	C	0.1204	0.1	2.29087E-16	0.012186523	35559	67.33
FGF23	rs6489536	12	4382743 C	G	0.3719	0.05	3.0903E-10	0.007943847	35559	39.61
VASN	rs6500599	16	4424513 G	C	0.2854	-0.08	6.91831E-17	0.009582653	35559	69.69

NT5C3L	rs6503667	17	41826012	G	A	0.2923	0.62	1E-200	0.016117541	35559	1479.66
SIGLEC12	rs6509544	19	51500077	G	C	0.1341	1.17	1E-200	0.03041536	35559	1479.66
SHMT1	rs651234	17	18365627	T	C	0.3379	-0.66	1E-200	0.017157383	35559	1479.66
LILRA5	rs651279	19	54302487	C	T	0.2913	-0.36	1E-200	0.009358572	35559	1479.66
APOBEC3G	rs6519166	22	39076172	C	A	0.3627	0.12	1.38038E-43	0.008667932	35559	191.65
CXCL10	rs6532086	4	76016125	A	G	0.4937	0.08	1.25893E-21	0.00837426	35559	91.26
COLEC11	rs6542680	2	3592552	C	T	0.1836	0.86	1E-200	0.02235659	35559	1479.66
MMP13	rs655316	11	102961635	T	C	0.2889	0.06	1.04713E-12	0.008422039	35559	50.75
GLRX	rs6556885	5	95825737	A	G	0.2561	-0.08	1.31826E-20	0.008595928	35559	86.61
CFL2	rs6571678	14	34716139	G	A	0.144	0.15	1.1749E-43	0.010825862	35559	191.97
CYB5R2	rs6578882	11	7578160	A	C	0.3522	-0.14	1.1749E-60	0.008521221	35559	269.92
CHST15	rs6588740	10	124095824	C	T	0.2737	-0.1	3.23594E-27	0.009254403	35559	116.76
GAS6	rs6602909	13	113849020	C	T	0.3381	-0.26	1.9055E-195	0.008717795	35559	889.42
PATE4	rs665677	11	125882266	A	G	0.2521	0.13	1.38038E-44	0.009279993	35559	196.23
CREB3L4	rs6671362	1	153971312	G	A	0.4572	0.2	2.6303E-136	0.008048511	35559	617.45
CFHR4	rs6674110	1	196920476	A	G	0.0175	-0.15	5.49541E-12	0.02176388	35559	47.5
LRP8	rs6677126	1	53241157	C	T	0.3073	0.08	2.13796E-13	0.010899371	35559	53.87
FH	rs6678766	1	241527254	A	G	0.2978	-0.15	2.18776E-64	0.008853495	35559	287.03
F5	rs6678795	1	169564028	A	G	0.4422	-0.13	1.65959E-61	0.007856012	35559	273.82
EPHB2	rs6686906	1	22829631	A	G	0.381	0.06	1.8197E-14	0.00783007	35559	58.71
FETUB	rs66965282	3	186640979	G	A	0.113	0.28	7.07946E-23	0.028435771	35559	96.95
DNAJB4	rs6699769	1	78038580	G	A	0.1848	-0.19	1.31826E-77	0.010188924	35559	347.72
RNPEP	rs6702334	1	201985696	A	T	0.3535	0.29	1E-200	0.008502753	35559	1163.19
ADGRE2	rs67023356	19	14396821	G	A	0.2643	0.36	1E-200	0.009445412	35559	1452.58
SIGLEC1	rs673114	20	3697089	T	G	0.3518	-0.05	7.76247E-11	0.007686238	35559	42.31
PCDH10	rs67318416	4	133586889	T	C	0.3331	0.11	9.33254E-38	0.008564521	35559	164.95
EFNA3	rs67333363	1	155085570	G	A	0.0869	-0.09	2.51189E-10	0.014226435	35559	40.02
CRTAM	rs67366392	11	122872099	C	A	0.4362	-0.3	1E-200	0.009174438	35559	1069.2
MCEE	rs6740268	2	71118834	G	T	0.175	-0.08	6.45654E-16	0.009900525	35559	65.29
FAM20B	rs67498652	1	179026365	T	G	0.3794	0.09	3.46737E-26	0.008501941	35559	112.05
CRABP2	rs67794440	1	156708499	C	A	0.365	-0.12	9.54993E-13	0.016814159	35559	50.93
PTPRU	rs67827535	1	29314670	T	C	0.0555	0.14	8.70964E-15	0.018048671	35559	60.16
IL17RD	rs6809523	3	57099110	G	A	0.267	0.24	2.95121E-89	0.011981374	35559	401.22
MMP7	rs68181448	11	102559274	A	G	0.2157	-0.11	3.80189E-26	0.010399737	35559	111.87
TEK	rs682632	9	27183465	A	C	0.0597	0.39	1E-115	0.017055469	35559	522.85

SPOCK3	rs6827306	4	166728607 T	C	0.1604	0.12	5.24807E-28	0.010937575	35559	120.36
CRTAC1	rs684225	10	97882605 A	C	0.4852	-0.35	1E-200	0.009098612	35559	1479.66
NDST1	rs6863373	5	150530369 T	C	0.4492	0.13	4.0738E-58	0.008089099	35559	258.26
HAVCR2	rs6873659	5	157102841 A	G	0.1674	0.65	1E-200	0.016897422	35559	1479.66
UST	rs6920109	6	148745332 T	C	0.2388	0.13	1.58489E-42	0.00951153	35559	186.79
VEGFA	rs6921438	6	43957870 A	G	0.4789	-0.59	1E-200	0.01533766	35559	1479.66
COL9A1	rs6923114	6	70237113 G	T	0.3349	0.07	2.51189E-19	0.007787942	35559	80.78
GNMT	rs6940814	6	42957194 A	G	0.3708	0.22	1.0233E-161	0.008118506	35559	734.29
CHST12	rs6952433	7	2357003 A	G	0.2138	0.2	1.04713E-95	0.009635035	35559	430.85
SCUBE1	rs695786	22	43373437 C	T	0.4901	0.09	1.99526E-26	0.008460679	35559	113.15
CCM2	rs6958168	7	44980215 G	T	0.1718	0.07	1.04713E-11	0.010294313	35559	46.24
CA13	rs6987314	8	85227011 A	G	0.0906	-0.58	1E-200	0.0150777	35559	1479.66
MYOM2	rs6991204	8	2107923 A	G	0.1649	-0.07	5.88844E-10	0.011302375	35559	38.36
ANGPT1	rs6993770	8	105569300 T	A	0.2245	-0.12	1.31826E-32	0.01009167	35559	141.39
LRP12	rs6993770	8	105569300 T	A	0.2245	-0.06	5.12861E-10	0.00965388	35559	141.39
UBXN2B	rs7000685	8	58004774 C	G	0.3731	-0.06	2.51189E-13	0.008198659	35559	53.55
CLN5	rs700363	13	77001261 A	G	0.0899	-0.17	3.63078E-36	0.01353808	35559	157.67
IGFBP3	rs700750	7	46713893 C	A	0.3572	-0.14	3.46737E-64	0.008276505	35559	286.11
B4GALT1	rs7019909	9	33113324 T	C	0.0923	0.3	5.3703E-99	0.014205512	35559	445.97
ADAMTSL1	rs702208	9	18639745 G	A	0.0468	0.55	1.4454E-173	0.019582592	35559	788.79
ST6GALNAC6	rs7027357	9	127897127 G	A	0.1048	0.1	3.23594E-15	0.012688014	35559	62.11
PTGDS	rs7040970	9	136964561 C	T	0.4943	0.14	7.4131E-67	0.008104772	35559	298.37
ROR1	rs705513	1	63669283 C	T	0.1733	0.08	6.30957E-14	0.010664546	35559	56.27
CFH	rs70620	1	196735867 A	G	0.1819	-0.28	1.0965E-156	0.010499336	35559	711.16
ATRN	rs709016	20	3598522 T	C	0.0692	-0.46	2.3442E-186	0.01579962	35559	847.61
SAA4	rs7103794	11	18226856 A	G	0.4585	0.43	1E-200	0.011178295	35559	1479.66
NTM	rs7118465	11	132100419 C	T	0.2916	0.13	1.58489E-47	0.008976941	35559	209.7
CST6	rs7128076	11	65992163 C	T	0.38	-0.09	1.86209E-24	0.00881826	35559	104.16
CFD	rs71335276	19	859368 T	G	0.225	-0.15	5.49541E-52	0.009887224	35559	230.15
SPINT2	rs71354995	19	38301201 G	A	0.2387	-0.69	1E-200	0.017937264	35559	1479.66
PPP1R14A	rs71354995	19	38301201 G	A	0.2387	-0.2	3.3884E-104	0.009226405	35559	1479.66
PRSS27	rs71386687	16	2717893 T	G	0.0939	0.31	8.1283E-108	0.014054301	35559	486.5
SEMA5A	rs71611368	5	9221592 A	G	0.0982	0.08	1.7378E-09	0.013287729	35559	36.25
ISLR2	rs7163410	15	74121570 C	A	0.0141	-0.22	4.36516E-10	0.035254277	35559	38.94
PRSS22	rs7204669	16	2860735 A	G	0.295	0.24	7.0795E-155	0.009052561	35559	702.84

NDE1	rs7206272	16	15632436	C	A	0.2206	0.08	1.7378E-16	0.009710017	35559	67.88
MXRA7	rs7219390	17	76688776	C	T	0.4091	-0.28	1E-200	0.007933347	35559	1245.6
LPO	rs7219860	17	58243910	A	G	0.2635	-0.29	1E-200	0.00946347	35559	939.01
CCL14	rs7222922	17	36008654	T	C	0.0816	-0.86	1E-200	0.02235659	35559	1479.66
DYNLL2	rs7225351	17	58077650	G	A	0.3346	-0.06	1.1749E-10	0.009313096	35559	41.5
NETO1	rs7242889	18	73564150	G	C	0.1801	0.07	5.62341E-11	0.010681446	35559	42.94
SERPINB5	rs7244879	18	63484141	A	G	0.3722	-0.14	4.57088E-63	0.008351858	35559	280.97
IGLON5	rs7246422	19	51309159	C	T	0.4287	0.12	5.88844E-43	0.008733945	35559	188.76
CRLF1	rs7246833	19	18604272	G	C	0.2157	0.26	6.166E-164	0.009528587	35559	744.5
HMHA1	rs7251797	19	1077986	G	A	0.3543	0.13	1.12202E-51	0.008595511	35559	228.73
PLD3	rs7254808	19	40364607	T	C	0.0431	-0.14	4.89779E-12	0.020264869	35559	47.72
SERPINA11	rs72631635	14	94455724	T	G	0.1619	-0.3	7.4131E-158	0.011206976	35559	716.54
SFRP1	rs72643819	8	41309674	T	G	0.4181	-0.16	5.88844E-77	0.008617209	35559	344.73
HPGDS	rs72665697	4	94346196	G	A	0.0343	-0.79	1E-200	0.021782532	35559	1315.26
LGMN	rs72701845	14	92750678	A	G	0.0244	0.4	1.04713E-51	0.026439779	35559	228.87
SORD	rs72722045	15	44966007	T	A	0.1585	0.3	7.9433E-153	0.011392357	35559	693.41
SYK	rs72729008	9	90813267	A	G	0.1433	-0.12	7.94328E-26	0.011419966	35559	110.41
CNTFR	rs72737103	9	34576584	C	T	0.0655	-0.23	3.89045E-43	0.016703618	35559	189.59
TNC	rs72757370	9	115538859	G	A	0.0521	0.11	8.31764E-12	0.016098425	35559	46.69
FAIM3	rs72758947	1	206913708	G	A	0.1613	-0.16	6.0256E-43	0.011646673	35559	188.72
TPSB2	rs72775459	16	1225494	T	C	0.0423	0.69	1E-200	0.017937264	35559	1479.66
GM2A	rs72794132	5	151239432	T	C	0.1638	0.32	3.4674E-184	0.011056328	35559	837.63
CRISPLD2	rs72799568	16	84868877	T	A	0.0594	-0.33	1.1749E-77	0.017690712	35559	347.95
LMAN2L	rs72809827	2	96725216	T	C	0.3277	0.12	2.63027E-49	0.008129764	35559	217.86
NTN1	rs72809986	17	9080705	A	G	0.1618	-0.47	1E-200	0.012218136	35559	1479.66
PLCG2	rs72824905	16	81908423	G	C	0.0183	0.31	1.69824E-24	0.030347435	35559	104.34
GP1BA	rs72835078	17	4923297	T	G	0.0817	0.25	2.04174E-64	0.014752288	35559	287.17
CD300C	rs72844326	17	74462952	G	T	0.0422	-0.61	1.4454E-200	0.020187759	35559	912.98
AFM	rs72858937	4	73539253	T	C	0.0139	-0.76	1.28825E-98	0.036057948	35559	444.22
REG3A	rs72913282	2	79146533	T	C	0.0884	0.29	3.31131E-83	0.015006486	35559	373.43
COL3A1	rs72914144	2	189377017	T	C	0.183	0.08	1.1749E-12	0.011254465	35559	50.52
EIF1AD	rs72930984	11	66011451	T	C	0.0212	0.63	3.0903E-118	0.027252126	35559	534.39
MGP	rs7294636	12	14901082	A	G	0.3741	-0.25	1.5849E-193	0.008424424	35559	880.59
MMP19	rs7296597	12	55848171	A	G	0.0471	-0.22	4.46684E-29	0.019657048	35559	125.25
DARS	rs72970243	2	135726662	A	G	0.0865	0.11	7.94328E-14	0.014723093	35559	55.82

GFRAL	rs72988065	6	55619783	G	A	0.1893	0.17	1.14815E-60	0.010346318	35559	269.96
TMEM132D	rs7299188	12	129289849	G	C	0.3716	0.08	1.51356E-19	0.008845866	35559	81.79
CHGA	rs729940	14	92932756	T	C	0.1417	-0.34	1.6218E-184	0.01173672	35559	839.15
MAN1A2	rs73013841	1	117312289	T	C	0.112	-0.3	7.7625E-110	0.013473001	35559	495.78
PGLS	rs73020480	19	17518363	A	G	0.2261	0.12	3.71535E-35	0.0096995	35559	153.05
S100A6	rs73026350	1	153547505	G	C	0.0446	0.2	3.16228E-24	0.019695582	35559	103.11
FRZB	rs73037291	2	182847155	C	T	0.0434	-0.38	7.76247E-56	0.024138851	35559	247.8
CLEC11A	rs73044692	19	50752798	T	G	0.0842	-0.09	1.58489E-09	0.014911818	35559	36.42
SIGLEC5	rs73050865	19	51612691	G	C	0.0239	-1.18	1E-200	0.030675321	35559	1479.66
SIGLEC14	rs73050865	19	51612691	G	C	0.0239	-1.29	1E-200	0.033534884	35559	1479.66
IDH1	rs73070958	2	208251325	T	C	0.0598	-0.36	1.7378E-103	0.016665489	35559	466.6
CACNA2D3	rs73082000	3	54099523	A	G	0.1461	0.23	2.88403E-80	0.01212287	35559	359.93
TAC1	rs731290	7	97654525	G	C	0.16	0.12	4.7863E-25	0.011608632	35559	106.85
SEZ6L	rs73158619	22	26302786	A	G	0.038	0.22	7.94328E-26	0.020936605	35559	110.41
PIP	rs73170678	7	143139110	T	A	0.1375	0.6	1E-200	0.015597621	35559	1479.66
KL	rs73176836	13	33041401	C	T	0.1792	0.16	1.04713E-45	0.011275045	35559	201.36
SELPLG	rs73191242	12	108620180	A	G	0.2105	-0.28	3.2359E-167	0.010159156	35559	759.59
BST1	rs73224659	4	15712566	A	C	0.1537	-1.4	1E-200	0.036394448	35559	1479.66
CLSTN2	rs73224907	3	139862246	C	A	0.0557	0.22	6.76083E-33	0.018415229	35559	142.71
TIGIT	rs73238029	3	114295233	C	A	0.2442	0.08	6.60693E-20	0.008758572	35559	83.42
PDGFRA	rs73252950	4	54275333	T	C	0.0779	-0.15	1.14815E-24	0.014629971	35559	105.12
TNFRSF19	rs7329483	13	23668662	A	G	0.1037	-0.09	3.31131E-12	0.012923912	35559	48.49
B4GALT7	rs73337767	5	177601825	T	C	0.0306	0.17	2.0893E-12	0.024187615	35559	49.4
NQO2	rs73349551	6	3011537	T	G	0.0086	-1.02	1.4454E-145	0.039701464	35559	660.03
F10	rs7335409	13	113155872	T	C	0.1505	-0.15	2.69153E-39	0.011437033	35559	172
GSS	rs734111	20	34945933	A	C	0.4135	-0.22	7.58578E-16	0.027292909	35559	64.97
CBLN4	rs7351418	20	55721241	T	C	0.3446	0.15	5.24807E-70	0.008480634	35559	312.82
CBL	rs73564493	11	119185564	A	G	0.0507	-0.2	3.89045E-28	0.018184491	35559	120.96
ANXA1	rs7357731	9	73175019	G	A	0.026	0.34	2.34423E-40	0.025565733	35559	176.85
APLP2	rs73583419	11	130069495	A	C	0.0631	0.28	2.63027E-63	0.016671076	35559	282.07
SIGLEC14	rs7359936	19	51647348	A	C	0.4654	0.08	2.5704E-23	0.008041735	35559	92.58
SIGLEC5	rs7359936	19	51647348	A	C	0.4654	0.08	6.45654E-22	0.008314283	35559	92.58
SCARF2	rs738087	22	20421260	A	G	0.2165	-0.16	5.12861E-56	0.010146838	35559	248.63
PCOLCE	rs7385804	7	100638347	C	A	0.3515	-0.16	1.1749E-78	0.008521271	35559	352.54
SUMO3	rs741949	21	44836982	G	T	0.248	0.06	3.23594E-12	0.008611933	35559	48.54

GGH	rs74329104	8	63018637	A	G	0.0747	0.63	1E-200	0.016377502	35559	1479.66
SCO2	rs74479613	22	50525476	T	C	0.0887	-0.16	8.70964E-31	0.013869893	35559	133.07
C7	rs74480769	5	40972109	G	A	0.0219	-1.28	1E-200	0.033274924	35559	1479.66
NT5DC3	rs74517500	12	103779853	C	T	0.0104	0.58	2.34423E-53	0.037719284	35559	236.43
FOLR2	rs74603010	11	72215198	G	A	0.0211	0.25	2.75423E-19	0.027845461	35559	80.6
RECQL	rs74626198	12	21543317	C	T	0.0447	-0.21	4.16869E-29	0.018753287	35559	125.39
LDHB	rs74626198	12	21543317	C	T	0.0447	-0.18	1.77828E-20	0.01940727	35559	125.39
NPL	rs74646646	1	182909529	C	T	0.0233	0.44	2.75423E-60	0.026865596	35559	268.22
KLK8	rs74705037	19	51001552	A	G	0.0271	0.86	1E-200	0.025406724	35559	1145.71
AP2A2	rs7482118	11	972603	A	G	0.3424	0.06	1.02329E-13	0.008066836	35559	55.32
PIGR	rs748844	1	206936501	A	G	0.3979	-0.14	2.18776E-64	0.008263262	35559	287.03
CCL25	rs74959615	19	8056212	A	G	0.0839	-1.12	1E-200	0.029115559	35559	1479.66
RFESD	rs75044039	5	95628553	C	G	0.0369	-0.16	4.36516E-14	0.021193108	35559	56.99
CNDP1	rs7505555	18	74576370	A	G	0.1774	0.12	2.63027E-30	0.010489251	35559	130.87
LYPLAL1	rs75060212	1	219172269	G	T	0.1337	0.15	1.41254E-36	0.011874917	35559	159.55
SARS2	rs7508539	19	38926800	G	A	0.3599	0.11	1.34896E-40	0.008245685	35559	177.95
CREG1	rs7513428	1	167546035	T	C	0.1535	0.22	2.23872E-82	0.011442782	35559	369.62
MGAT2	rs7519	14	49621035	T	C	0.4515	-0.13	1.25893E-59	0.00798275	35559	265.19
ASF1A	rs75259763	6	119019145	T	C	0.0164	0.22	1.09648E-11	0.032385168	35559	46.15
CSRP1	rs7527761	1	201491124	C	T	0.3174	-0.1	1.14815E-27	0.009174018	35559	118.81
S100A2	rs75282796	1	153561364	C	T	0.0111	-0.41	3.01995E-27	0.03792081	35559	116.89
HDHD2	rs75284103	18	47137207	A	G	0.0459	-0.22	5.88844E-31	0.019015658	35559	133.84
PLCG1	rs753381	20	41168825	T	C	0.4731	-0.07	5.7544E-17	0.00836305	35559	70.06
GGPS1	rs7534175	1	235346698	G	A	0.1343	0.13	2.81838E-28	0.011788797	35559	121.6
LDLRAP1	rs75446219	1	25551001	T	C	0.0321	0.27	4.7863E-29	0.02413777	35559	125.11
FAM151A	rs7545297	1	54631647	A	G	0.3261	0.32	1E-200	0.009164706	35559	1219.1
FIS1	rs75487681	7	101253420	T	A	0.059	-0.32	4.57088E-81	0.016781176	35559	363.61
TIE1	rs7549876	1	43294565	T	G	0.3998	-0.18	1.6596E-114	0.007914307	35559	517.24
SYK	rs75505307	9	90819332	T	C	0.1328	-0.13	8.70964E-27	0.012133175	35559	114.79
ACP6	rs75583687	1	147656613	C	T	0.0287	-1.79	1E-200	0.046532902	35559	1479.66
AKR1B1	rs75627053	7	134468104	T	C	0.012	0.3	8.31764E-16	0.037269692	35559	64.79
HMOX1	rs75689278	22	35376664	G	A	0.0375	-0.14	4.57088E-10	0.02246048	35559	38.85
UGT1A6	rs7572563	2	233708590	A	G	0.4727	0.1	1.69824E-13	0.013567362	35559	54.32
RTN4R	rs75765	22	20187436	C	T	0.2699	0.29	1E-200	0.009512762	35559	929.31
CNRIP1	rs7578047	2	68352799	G	A	0.1364	-0.66	1E-200	0.017157383	35559	1479.66

LILRA3	rs75814910	19	54301205	A	C	0.0526	0.14	1.86209E-13	0.019026026	35559	54.14
IL1R1	rs7588201	2	102129816	C	A	0.2798	-0.19	3.01995E-97	0.00907904	35559	437.93
RSPO4	rs75904281	20	963194	T	C	0.0141	-0.39	1.44544E-29	0.034539247	35559	127.49
IGFBP5	rs7598172	2	216813276	G	T	0.499	0.05	2.51189E-10	0.007903575	35559	40.02
ADAM23	rs7598482	2	206475415	T	C	0.3423	-0.25	1E-200	0.00819579	35559	930.41
POFUT1	rs76143353	20	32227952	T	C	0.0469	-0.64	1E-200	0.018255494	35559	1228.99
NOG	rs76164057	17	56763503	G	A	0.0141	1.26	1E-200	0.035435973	35559	1264.24
CD200	rs7619941	3	112337567	A	G	0.0677	-0.13	5.12861E-16	0.016032735	35559	65.74
LYVE1	rs76318574	11	10506171	C	T	0.0243	0.34	6.0256E-36	0.027163017	35559	156.67
PROK2	rs7634474	3	71780316	A	G	0.1994	0.66	1E-200	0.017157383	35559	1479.66
NIT2	rs7649598	3	100334239	A	G	0.2832	-0.08	5.01187E-21	0.008502556	35559	88.52
SERPINA12	rs76624128	14	94517387	G	A	0.0625	0.57	1E-200	0.017084303	35559	1113.09
ANTXR2	rs7674623	4	79873527	T	C	0.2132	0.22	1.3183E-100	0.010332036	35559	453.37
METAP1	rs7676259	4	99021498	A	G	0.387	0.06	4.16869E-15	0.007643556	35559	61.62
SPARCL1	rs7681694	4	87541577	A	G	0.3902	0.55	1E-200	0.014297819	35559	1479.66
REG1A	rs76841471	2	79103043	G	T	0.0685	0.53	1E-200	0.016475473	35559	1034.79
REG1B	rs76841471	2	79103043	G	T	0.0685	0.53	1E-200	0.016388634	35559	1034.79
CPLX1	rs7687101	4	818891	T	G	0.433	0.06	1.34896E-12	0.008463587	35559	50.25
CAT	rs769218	11	34449132	A	G	0.2199	-0.21	3.02E-107	0.00954639	35559	483.88
SEMA4A	rs7695	1	156177535	C	T	0.3764	0.17	8.31764E-82	0.008873628	35559	367
SH3BP2	rs7695151	4	2770803	T	C	0.4419	0.26	1E-200	0.008029294	35559	1048.5
VWC2	rs769604	7	49775794	G	C	0.4674	-0.16	1.99526E-65	0.009366179	35559	291.8
SERPINB13	rs77157727	18	63586727	A	G	0.043	-0.44	3.6308E-110	0.019730247	35559	497.3
SPINK1	rs7725017	5	147838260	C	A	0.3905	0.11	1.86209E-45	0.007773738	35559	200.22
IL6ST	rs7730934	5	55970684	A	G	0.1236	0.37	1.3804E-188	0.012632189	35559	857.87
ITIH4	rs77347777	3	52814191	T	C	0.0872	-0.21	6.91831E-45	0.014938528	35559	197.61
XRCC4	rs7736592	5	83348245	A	G	0.1198	0.15	2.95121E-36	0.011929794	35559	158.09
IL5RA	rs77400868	3	3109280	G	A	0.1532	0.55	1E-200	0.014297819	35559	1479.66
SNX1	rs77404765	15	64300071	C	T	0.0193	0.44	2.34423E-49	0.029793468	35559	218.09
IL22RA2	rs7749390	6	137219233	G	A	0.3517	0.11	1.77828E-38	0.008480216	35559	168.25
SRI	rs77500696	7	88311266	A	T	0.195	0.14	6.60693E-40	0.010588936	35559	174.79
TFF2	rs77505241	21	42349233	C	T	0.1865	-0.11	2.51189E-26	0.010361753	35559	112.69
LUM	rs77751442	12	91091238	T	G	0.0189	-0.38	6.45654E-38	0.02952106	35559	165.68
LILRA3	rs77777983	19	54226365	G	C	0.1775	-0.16	1.38038E-47	0.011041306	35559	209.98
CCDC126	rs7781145	7	23586983	A	C	0.256	0.31	1E-200	0.009478621	35559	1069.57

ELMO1	rs7782999	7	37407090 T	A	0.1828	-0.1	3.71535E-25	0.009651218	35559	107.35
BMPER	rs77897447	7	33742313 G	C	0.1474	0.14	1.65959E-32	0.011792701	35559	140.93
ITIH2	rs77938199	10	7700504 G	A	0.0659	1.01	1E-200	0.026255995	35559	1479.66
ETFA	rs78185702	15	76317894 T	C	0.1124	0.09	7.4131E-12	0.013139728	35559	46.91
RMDN1	rs7820697	8	86490626 A	C	0.4432	0.15	5.01187E-42	0.011042748	35559	184.5
CDH17	rs7833351	8	94169950 G	A	0.3118	0.27	1E-200	0.008684528	35559	966.52
DEFA5	rs7839771	8	7055504 T	C	0.0177	-0.3	1.28825E-20	0.03222626	35559	86.66
PDCD1LG2	rs7854413	9	5557708 C	T	0.0721	-0.22	5.49541E-48	0.01511595	35559	211.81
MATN2	rs78548919	8	98052647 T	C	0.1966	0.14	4.36516E-40	0.010564058	35559	175.62
NANS	rs7855984	9	98056008 A	G	0.2473	0.09	3.46737E-22	0.009292024	35559	93.81
GZMB	rs78564162	14	24689939 G	A	0.0655	0.16	2.29087E-23	0.016064975	35559	99.19
C8G	rs7862602	9	136946019 G	T	0.4365	0.46	1E-200	0.011958176	35559	1479.66
SLITRK3	rs78729408	3	165436289 A	T	0.0069	0.32	1.86209E-10	0.050217312	35559	40.6
SIAE	rs78778622	11	124660768 C	T	0.0879	-0.2	1.23027E-44	0.014268585	35559	196.46
C1QC	rs78865058	1	22617716 A	G	0.0434	1.03	1E-200	0.026775915	35559	1479.66
CELA2A	rs78880003	1	15414434 T	C	0.0611	-0.2	5.62341E-31	0.017281061	35559	133.94
TCL1A	rs78986913	14	95696081 A	G	0.0414	-0.45	3.3113E-107	0.020460437	35559	483.69
SEMA7A	rs78994380	15	74400071 A	C	0.1125	-0.13	9.77237E-23	0.013245992	35559	96.31
VWA2	rs79009215	10	114286037 A	G	0.0102	-0.52	6.16595E-39	0.039839729	35559	170.35
LILRB3	rs79016353	19	54247294 A	G	0.0634	0.24	1.7378E-50	0.016061351	35559	223.27
PNLIPRP2	rs7910135	10	116638535 C	A	0.4726	-1.01	1E-200	0.026255995	35559	1479.66
FAS	rs7911226	10	89009208 G	A	0.2845	-0.25	2.4547E-167	0.009067382	35559	692.86
ACADSB	rs7913063	10	123039167 T	A	0.0932	0.17	4.2658E-36	0.013551853	35559	157.35
CXCL12	rs7918194	10	44606972 T	C	0.4577	-0.06	1.02329E-11	0.008819395	35559	46.28
SBDS	rs79344818	7	66988489 G	A	0.0338	-0.32	1.25893E-43	0.023103444	35559	191.83
LILRA2	rs79346487	19	54572919 A	G	0.0216	0.18	3.0903E-12	0.025811797	35559	48.63
CHRDL2	rs7935154	11	74710367 C	T	0.2234	0.09	1.77828E-20	0.009703635	35559	86.02
GIF	rs7938323	11	61202327 G	A	0.3878	-0.19	5.2481E-117	0.008262718	35559	528.73
NTF3	rs79426122	12	5574094 T	C	0.0662	0.14	1.8197E-18	0.015967269	35559	76.87
CLMP	rs7946718	11	123197533 A	G	0.4079	-0.21	3.0903E-142	0.008270319	35559	644.72
PDGFD	rs7950273	11	104160870 G	C	0.3013	-0.35	1E-200	0.009098612	35559	1479.66
AMIGO2	rs79609374	12	47079943 G	A	0.2848	-0.11	3.23594E-31	0.009465892	35559	135.03
VIM	rs796667	10	16904820 G	T	0.4296	0.08	3.01995E-21	0.008454837	35559	89.53
ACP1	rs79716074	2	277003 G	A	0.3648	1.09	1E-200	0.028335678	35559	1479.66
PLXNC1	rs7972001	12	94229726 T	C	0.0317	-0.57	5.7544E-128	0.02368542	35559	579.11

TMEM132C	rs7973997	12	128272393	T	C	0.3279	-0.24	1.7378E-159	0.008919052	35559	724.04
GSTZ1	rs7975	14	77326864	A	G	0.3128	1.15	1E-200	0.02989544	35559	1479.66
LHB	rs79785970	19	49014074	G	C	0.1274	-0.44	1E-200	0.011778045	35559	1395.51
LCP1	rs7990889	13	46117262	G	C	0.2809	-0.13	1.1749E-45	0.00916619	35559	201.13
TNFSF12	rs80067372	17	7549435	A	G	0.3055	0.37	1E-200	0.009618533	35559	1479.66
FAM177A1	rs8006935	14	35064744	G	A	0.3201	0.08	4.89779E-16	0.009859495	35559	65.83
B3GNT2	rs80161321	2	62186659	T	C	0.0111	-0.24	5.24807E-10	0.038638002	35559	38.58
ANXA2	rs8023979	15	60391750	G	A	0.1418	-0.08	1.58489E-09	0.013254949	35559	36.42
ANXA2	rs8033800	15	60396980	T	A	0.366	0.56	1E-200	0.014557779	35559	1479.66
IGDCC4	rs8034057	15	65497092	A	G	0.0987	-0.32	1.6596E-122	0.013594943	35559	554.01
RGMA	rs8035249	15	93486779	T	C	0.2778	0.08	5.62341E-19	0.008989539	35559	79.19
CTRB2	rs8048956	16	75221068	G	C	0.1972	0.86	1E-200	0.02235659	35559	1479.66
CTRB1	rs8051363	16	75221319	A	G	0.261	-0.41	1E-200	0.010658374	35559	1479.66
CRISPLD2	rs8057431	16	84806348	C	A	0.3366	-0.23	4.8978E-147	0.008906802	35559	666.79
DPEP2	rs8059305	16	68002763	C	A	0.1141	0.21	2.39883E-60	0.012815642	35559	268.49
KCNAB2	rs806109	1	5992521	G	A	0.2151	-0.08	6.60693E-17	0.009576415	35559	69.78
COL1A1	rs8066653	17	50237339	T	A	0.2584	-0.06	1.44544E-12	0.008475024	35559	50.12
SPATA20	rs8076632	17	50548567	G	C	0.4082	-0.32	1E-200	0.008318731	35559	1479.66
GLTPD2	rs8078118	17	4786743	A	C	0.3558	0.19	2.0417E-109	0.00854956	35559	493.85
CST4	rs8121100	20	23695261	G	A	0.0934	-0.43	1E-200	0.013761336	35559	976.32
RTN4R	rs8142885	22	20223616	C	T	0.1564	-0.19	2.34423E-52	0.012477912	35559	231.85
NELL1	rs8176786	11	20937848	T	C	0.063	1.06	1E-200	0.027555796	35559	1479.66
TF	rs8177245	3	133760386	G	A	0.2701	0.14	4.89779E-63	0.008353905	35559	280.84
IL15RA	rs8177683	10	5966995	T	C	0.3861	0.4	1E-200	0.010398414	35559	1479.66
AIF1L	rs818058	9	131090414	G	C	0.4411	-0.24	5.88844E-51	0.015984404	35559	225.43
MAX	rs8181938	14	65088994	G	A	0.3942	-0.18	1.4125E-106	0.008208778	35559	480.8
DDOST	rs818194	1	20605335	A	T	0.2268	-0.06	3.98107E-11	0.009084329	35559	43.62
GXYLT1	rs824700	12	42056895	A	G	0.4143	-0.1	8.91251E-34	0.008254963	35559	146.74
CD59	rs831630	11	33721473	T	C	0.3266	-0.18	5.1286E-101	0.008435975	35559	455.25
C9	rs835222	5	39362065	A	G	0.3975	-0.06	1.02329E-10	0.00928294	35559	41.77
C1QTNF3	rs840390	5	34018518	A	G	0.1311	-0.18	4.46684E-54	0.011625093	35559	239.73
HS6ST1	rs840870	2	128308686	G	T	0.4317	0.15	1.94984E-78	0.008000163	35559	351.53
STAT6	rs841718	12	57099213	G	A	0.3363	-0.09	2.39883E-25	0.00865123	35559	108.22
IFI16	rs856053	1	159031714	G	A	0.1675	-0.07	3.0903E-10	0.011121386	35559	39.61
SHBG	rs858519	17	7628647	T	C	0.47	-0.17	9.54993E-95	0.008232023	35559	426.44

SAR1A	rs870801	10	70169990	A	C	0.3952	0.15	5.62341E-73	0.008301654	35559	326.46
PF4V1	rs872914	4	73852384	G	A	0.2893	0.32	1E-200	0.008669527	35559	1362.34
OXT	rs877172	20	3069244	G	T	0.3317	0.36	1E-200	0.009358572	35559	1479.66
RARRES2	rs883138	7	150345704	C	A	0.2606	0.25	1.9055E-159	0.009291859	35559	723.85
LGALS4	rs883394	19	38714973	T	C	0.4753	-0.05	3.98107E-11	0.007570274	35559	43.62
PYGL	rs883699	14	50936043	T	C	0.3851	-0.1	6.16595E-36	0.00799029	35559	156.62
CNTN5	rs888598	11	99992101	T	A	0.4556	-0.09	6.60693E-26	0.008550847	35559	110.78
GP6	rs892090	19	55027704	T	G	0.1645	-0.38	1E-200	0.011049914	35559	1182.56
TBCE	rs903347	1	235423298	C	T	0.3866	0.1	1.8197E-33	0.008295138	35559	145.32
SEMA3C	rs917191	7	80941555	G	C	0.4163	-0.11	1.14815E-38	0.008458379	35559	169.12
DUT	rs919129	15	48383030	G	A	0.138	-0.08	1.12202E-12	0.011244413	35559	50.62
ZADH2	rs9240	18	75198732	C	T	0.428	-0.09	1.20226E-31	0.007689053	35559	137
OGN	rs9299404	9	92408056	A	G	0.4126	0.39	1E-200	0.010138453	35559	1479.66
DSG2	rs9304098	18	31503667	T	G	0.4542	-0.19	1.5849E-119	0.008173674	35559	540.32
PRSS57	rs9304936	19	689590	C	G	0.3082	-0.49	1E-200	0.012738057	35559	1479.66
PROS1	rs930814	3	94256084	C	G	0.0312	-0.19	2.69153E-15	0.024037141	35559	62.48
NPDC1	rs9314872	9	137059328	G	C	0.1009	-0.09	1.58489E-11	0.013353302	35559	45.42
MDGA1	rs9349050	6	37695848	T	C	0.4736	1.06	1E-200	0.027555796	35559	1479.66
DLL1	rs9356631	6	170278382	G	A	0.417	0.1	7.94328E-32	0.008517846	35559	137.82
ULK3	rs936228	15	74839823	T	C	0.2566	0.09	5.62341E-22	0.009339787	35559	92.85
RTN4IP1	rs9373885	6	106635743	T	C	0.2721	-0.07	4.36516E-16	0.00861223	35559	66.06
PLA2G7	rs9381472	6	46691168	G	C	0.3291	0.11	4.67735E-36	0.008773951	35559	157.17
CRISP2	rs9381797	6	49556733	T	C	0.4571	-0.08	8.31764E-21	0.008551086	35559	87.52
IFNGR1	rs9389484	6	137208790	T	C	0.239	-0.08	1.07152E-15	0.009977082	35559	64.29
ADGRF5	rs9395219	6	46859876	A	G	0.1972	-0.23	3.2359E-128	0.009547806	35559	580.26
NOTCH1	rs9411257	9	136530146	A	G	0.4034	-0.09	9.77237E-26	0.008580952	35559	110
DNAJB12	rs9416018	10	72340884	G	A	0.3315	0.08	7.07946E-22	0.008322479	35559	92.4
MFAP2	rs9435732	1	16981663	T	C	0.2355	-0.14	6.45654E-28	0.01278235	35559	119.95
NT5E	rs9444349	6	85502308	T	C	0.2915	0.21	3.3884E-121	0.008970565	35559	547.99
GLO1	rs9462450	6	38697164	C	T	0.0873	-0.16	2.29087E-29	0.01422101	35559	126.58
CNPY3	rs9471969	6	42938646	T	G	0.2771	-0.14	2.0893E-54	0.009013334	35559	241.25
LRP11	rs9479810	6	149751359	T	C	0.3376	0.57	1E-200	0.01481774	35559	1479.66
MANEA	rs9488739	6	95584084	T	C	0.1107	-0.32	1E-200	0.010539708	35559	921.76
COL10A1	rs9488842	6	116123005	C	A	0.2672	-0.25	3.8905E-180	0.008735433	35559	819.01
BPHL	rs9503407	6	3143886	C	T	0.0755	0.21	4.89779E-42	0.015457928	35559	184.55

POSTN	rs9532075	13	37530059	T	G	0.3834	0.16	4.0738E-83	0.008284027	35559	373.02
CPB2	rs9534312	13	46076084	C	T	0.3402	0.5	1E-200	0.012998017	35559	1479.66
NT5DC3	rs954921	12	103779852	C	T	0.378	0.17	1.99526E-98	0.008073531	35559	443.35
HS6ST3	rs9562027	13	96110589	T	A	0.4069	0.1	8.70964E-31	0.008668683	35559	133.07
SHANK3	rs9616906	22	50666252	A	G	0.4491	-0.36	1E-200	0.009358572	35559	1479.66
C1QTNF5	rs9640	11	119339269	A	T	0.1348	0.28	1.6596E-117	0.012150261	35559	531.03
APOC3	rs964184	11	116778201	G	C	0.1232	0.2	2.95121E-63	0.011912757	35559	281.85
ST3GAL1	rs9643300	8	133490905	C	T	0.4973	0.25	1E-200	0.008118687	35559	948.17
DNER	rs9646889	2	229657412	A	G	0.4777	0.07	9.33254E-19	0.007916019	35559	78.19
S100A16	rs9726753	1	153619176	A	G	0.4316	0.19	3.2359E-112	0.008440303	35559	506.72
S100A16	rs9729962	1	153596510	C	T	0.0961	0.1	6.60693E-13	0.013913368	35559	51.65
MATN4	rs9784191	20	45310450	G	A	0.2551	-0.25	1.1482E-160	0.009256059	35559	729.46
SPINK7	rs9784645	5	148337418	T	G	0.2529	0.13	2.18776E-44	0.009301736	35559	195.31
EPHA5	rs9790818	4	65394169	C	A	0.1392	0.07	5.37032E-10	0.011275986	35559	38.54
CACNA2D3	rs9814659	3	54562788	C	T	0.3347	-0.06	2.63027E-12	0.008576103	35559	48.94
FAM3D	rs9862196	3	58630443	C	T	0.2162	-0.08	3.01995E-16	0.009788894	35559	66.79
PDCD6IP	rs9876986	3	33799573	G	A	0.265	-0.11	5.7544E-35	0.008916567	35559	152.18
TIMP2	rs9894212	17	78865858	G	C	0.2268	-0.08	1.54882E-16	0.009693821	35559	68.1
SPP1	rs990862	4	87836661	C	T	0.3413	0.09	3.98107E-24	0.008882681	35559	102.65
PKP2	rs9919823	12	32821677	C	T	0.0452	0.24	2.5704E-36	0.019071114	35559	158.36
HDGFRP3	rs9919979	15	83080047	A	C	0.0642	0.18	6.76083E-29	0.016136101	35559	124.43
IGFALS	rs9923699	16	1794111	T	C	0.3015	-0.14	7.07946E-55	0.008973336	35559	243.4
GNPTG	rs9923746	16	1390384	C	G	0.0794	0.52	1E-200	0.014987984	35559	1203.64
ZG16B	rs9925556	16	2830104	C	T	0.2858	-0.18	1E-103	0.008322915	35559	467.7
CHST9	rs9953270	18	27107407	C	T	0.3298	0.26	1E-200	0.008586468	35559	916.84
CCDC80	rs9990056	3	112764617	A	G	0.4096	-0.05	3.98107E-10	0.007993902	35559	39.12
ANXA5	rs9995591	4	121694605	A	G	0.0684	0.26	3.98107E-64	0.015378054	35559	285.84

Supplementary Table S3 Instrumental variables for the bidirectional MR analysis

Exposure SNP	Effect allele	Other allele	Eaf	Beta	Pval	Se	Samplesize	F statistics	
Acne	rs10734852	G	A	0.4623	-0.0691	1.99E-13	0.0094	399413	54.03786884
Acne	rs11022666	T	C	0.3492	0.0772	3.194E-15	0.0098	399413	62.05549934
Acne	rs130291	A	G	0.4544	-0.0582	7.834E-10	0.0095	399413	37.53155722
Acne	rs1481362	A	G	0.4184	0.0914	5.325E-22	0.0095	399413	92.56419024
Acne	rs174594	A	C	0.6207	-0.0728	4.451E-14	0.0096	399413	57.50665649
Acne	rs2522051	C	T	0.5418	-0.0531	1.593E-08	0.0094	399413	31.91032007
Acne	rs2696958	T	C	0.4987	0.0598	1.928E-10	0.0094	399413	40.47105131
Acne	rs2957160	A	C	0.7946	-0.0679	3.816E-08	0.0124	399413	29.98430615
Acne	rs3118181	C	T	0.4906	-0.0593	3.08E-10	0.0094	399413	39.79710719
Acne	rs34560261	T	C	0.1613	-0.1499	1.055E-28	0.0135	399413	123.2916186
Acne	rs37776	T	C	0.6465	-0.0922	1.039E-20	0.0099	399413	86.73398055
Acne	rs4760791	G	A	0.4141	-0.061	1.143E-09	0.01	399413	37.20981368
Acne	rs6498135	G	A	0.5928	0.0559	7.394E-09	0.0097	399413	33.21069564
Acne	rs7410766	C	T	0.2154	0.0704	1.255E-09	0.0116	399413	36.83215802
Acne	rs8078102	A	C	0.7579	-0.0684	3.816E-10	0.0109	399413	39.37830631

Supplementary Table S4 MR results for the primary analysis

Protein	OR (95% CI)	P value	Author
TIMP4	1.15 (1.09, 1.21)	1.01E-07	Sun
MMP12	0.95 (0.92, 0.98)	9.07E-04	Sun
LAMC2	0.95 (0.91, 0.98)	1.06E-03	Sun
DPP7	0.91 (0.86, 0.97)	1.62E-03	Sun
BTD	1.05 (1.02, 1.08)	2.86E-03	Emilsson
SERPINA1	0.93 (0.88, 0.97)	3.40E-03	Suhre
CDH11	1.05 (1.01, 1.08)	3.59E-03	Emilsson
PDE5A	0.92 (0.87, 0.98)	5.49E-03	Suhre
CBR3	0.97 (0.94, 0.99)	6.19E-03	Sun
TNFRSF19	0.85 (0.76, 0.96)	6.64E-03	Emilsson
RNPEP	1.08 (1.02, 1.13)	6.93E-03	Emilsson
SHBG	0.89 (0.81, 0.97)	9.10E-03	Emilsson
DKK3	1.08 (1.02, 1.15)	1.00E-02	Sun
LHB	1.10 (1.02, 1.19)	1.00E-02	Sun
ATP1B2	1.09 (1.02, 1.17)	1.04E-02	Sun
IL1RN	0.88 (0.80, 0.97)	1.07E-02	Sun
AKR1A1	0.96 (0.93, 0.99)	1.21E-02	Sun
CROT	1.11 (1.02, 1.21)	1.48E-02	Emilsson
F7	0.97 (0.94, 0.99)	1.60E-02	Suhre
RSPO3	1.09 (1.02, 1.16)	1.62E-02	Sun
LRRC15	1.06 (1.01, 1.11)	1.65E-02	Sun
TNFRSF10B	1.18 (1.03, 1.34)	1.72E-02	Emilsson
CCL4L1	0.90 (0.82, 0.98)	1.74E-02	Emilsson
IDUA	1.04 (1.01, 1.07)	2.32E-02	Sun
HPGDS	0.95 (0.91, 0.99)	2.35E-02	Sun
HP	1.03 (1.00, 1.06)	2.46E-02	Sun
C4BPA	1.08 (1.01, 1.15)	2.58E-02	Emilsson
CD177	0.97 (0.95, 1.00)	2.63E-02	Sun
CACNA2D3	0.89 (0.80, 0.99)	2.68E-02	Sun
CAPN1;CAPNS1	0.95 (0.91, 0.99)	2.70E-02	Suhre
C1QL1	1.08 (1.01, 1.15)	2.84E-02	Emilsson
KIAA2013	0.89 (0.80, 0.99)	2.86E-02	Emilsson
MAPKAPK2	1.07 (1.01, 1.14)	3.01E-02	Suhre
CSF2RB	1.07 (1.01, 1.14)	3.08E-02	Sun
RNASE1	1.11 (1.01, 1.23)	3.16E-02	Sun
VSIR	1.11 (1.01, 1.22)	3.19E-02	Sun
MMP1	1.07 (1.01, 1.13)	3.30E-02	Folkersen
PLAU	1.09 (1.01, 1.18)	3.50E-02	Sun
CSF1	0.88 (0.77, 0.99)	3.81E-02	Folkersen
CFI	1.07 (1.00, 1.13)	4.12E-02	Sun
FSTL1	0.91 (0.83, 1.00)	4.22E-02	Sun
FETUB	1.08 (1.00, 1.17)	4.35E-02	Suhre
REG3G	0.96 (0.91, 1.00)	4.45E-02	Emilsson
HSP90B1	0.98 (0.96, 1.00)	4.55E-02	Sun
CRP	0.88 (0.78, 1.00)	4.66E-02	Yao
PLG	1.06 (1.00, 1.12)	5.01E-02	Suhre
TIE1	0.93 (0.86, 1.00)	5.01E-02	Sun
CD48	0.93 (0.86, 1.00)	5.22E-02	Sun
LRP12	1.12 (1.00, 1.25)	5.22E-02	Emilsson
SPARCL1	1.04 (1.00, 1.07)	5.39E-02	Sun
MCAM	1.15 (1.00, 1.33)	5.67E-02	Yao
PATE4	1.04 (1.00, 1.09)	5.96E-02	Sun

CREB3L4	0.93 (0.87, 1.00)	6.42E-02	Sun
CCL18	1.03 (1.00, 1.06)	6.61E-02	Suhre
NPW	0.95 (0.91, 1.00)	6.68E-02	Sun
CFHR5	1.06 (1.00, 1.13)	6.83E-02	Sun
TPSAB1;TPSB2	1.04 (1.00, 1.08)	6.93E-02	Suhre
PCYOX1	0.97 (0.93, 1.00)	7.04E-02	Emilsson
GDI2	1.10 (0.99, 1.22)	7.32E-02	Emilsson
CDCP1	0.89 (0.78, 1.01)	7.48E-02	Emilsson
ISG15	0.94 (0.87, 1.01)	7.52E-02	Sun
FAM151A	1.07 (0.99, 1.15)	7.58E-02	Sun
ORM1	0.91 (0.81, 1.01)	7.62E-02	Yao
APOA1	1.07 (0.99, 1.15)	7.73E-02	Emilsson
HSPB1	0.95 (0.90, 1.01)	7.77E-02	Folkersen
NPPB	1.07 (0.99, 1.14)	7.83E-02	Yao
IL17RD	1.04 (1.00, 1.09)	7.93E-02	Sun
SPINK6	0.97 (0.95, 1.00)	7.98E-02	Sun
SEMA4C	1.07 (0.99, 1.15)	8.03E-02	Emilsson
IL12B	1.06 (0.99, 1.13)	8.14E-02	Sun
RARRES2	0.95 (0.90, 1.01)	8.33E-02	Suhre
SPINT2	1.02 (1.00, 1.04)	8.40E-02	Sun
ENTPD1	0.92 (0.84, 1.01)	8.41E-02	Sun
PDIA3	0.89 (0.78, 1.02)	8.45E-02	Emilsson
LRIG3	0.92 (0.84, 1.01)	8.55E-02	Sun
APOF	0.92 (0.83, 1.01)	8.71E-02	Emilsson
GRN	1.06 (0.99, 1.14)	8.73E-02	Sun
DNAJC30	0.94 (0.87, 1.01)	8.74E-02	Sun
EVA1C	0.91 (0.82, 1.01)	8.97E-02	Sun
NCAM1	0.95 (0.90, 1.01)	9.06E-02	Yao
PSAP	0.97 (0.94, 1.01)	9.44E-02	Emilsson
IL7	1.07 (0.99, 1.17)	9.51E-02	Emilsson
OXT	0.97 (0.94, 1.01)	9.68E-02	Emilsson
ADAM23	1.04 (0.99, 1.09)	9.69E-02	Sun
ST3GAL6	1.02 (1.00, 1.04)	1.02E-01	Sun
CTSF	0.93 (0.85, 1.02)	1.04E-01	Sun
SPINK2	1.06 (0.99, 1.14)	1.04E-01	Sun
CTSD	1.05 (0.99, 1.11)	1.06E-01	Folkersen
DKK2	1.05 (0.99, 1.10)	1.07E-01	Emilsson
VIT	1.05 (0.99, 1.11)	1.09E-01	Sun
PZP	0.97 (0.93, 1.01)	1.10E-01	Emilsson
DLL1	1.08 (0.98, 1.19)	1.12E-01	Sun
GFRA1	1.07 (0.98, 1.15)	1.18E-01	Sun
FUT10	1.04 (0.99, 1.08)	1.19E-01	Sun
KIAA1549L	0.96 (0.92, 1.01)	1.22E-01	Emilsson
BCAN	1.09 (0.98, 1.20)	1.23E-01	Emilsson
NAGK	0.95 (0.89, 1.01)	1.26E-01	Sun
TYRO3	0.91 (0.80, 1.03)	1.27E-01	Emilsson
CXCL10	0.90 (0.78, 1.03)	1.28E-01	Emilsson
ERO1B	1.04 (0.99, 1.09)	1.28E-01	Sun
ITIH5	1.05 (0.99, 1.13)	1.28E-01	Sun
GLTPD2	0.94 (0.87, 1.02)	1.31E-01	Sun
TMEM132A	1.03 (0.99, 1.06)	1.31E-01	Sun
IFI16	0.96 (0.92, 1.01)	1.33E-01	Sun
RAB6B	0.93 (0.85, 1.02)	1.34E-01	Emilsson
MFGE8	0.94 (0.86, 1.02)	1.36E-01	Sun

ANG	1.03 (0.99, 1.07)	1.39E-01	Suhre
DUT	1.10 (0.97, 1.26)	1.39E-01	Emilsson
VEGFA	1.02 (0.99, 1.05)	1.39E-01	Sun
FCRL6	1.03 (0.99, 1.07)	1.40E-01	Sun
SIRPB1	0.98 (0.95, 1.01)	1.41E-01	Sun
B4GALT1	1.05 (0.98, 1.13)	1.45E-01	Sun
IL7R	0.97 (0.93, 1.01)	1.45E-01	Suhre
NTN4	0.94 (0.86, 1.02)	1.47E-01	Sun
PTHLH	1.09 (0.97, 1.21)	1.48E-01	Sun
CXCL11	1.06 (0.98, 1.15)	1.51E-01	Sun
IGFBP7	0.96 (0.90, 1.02)	1.51E-01	Sun
OBP2B	0.96 (0.91, 1.02)	1.51E-01	Sun
DCBLD2	1.05 (0.98, 1.12)	1.54E-01	Sun
IL18	1.05 (0.98, 1.13)	1.54E-01	Folkersen
LGALS9	1.08 (0.97, 1.20)	1.55E-01	Emilsson
OAF	1.04 (0.98, 1.10)	1.55E-01	Sun
CST1	0.98 (0.94, 1.01)	1.58E-01	Suhre
CST2	0.97 (0.94, 1.01)	1.58E-01	Suhre
LCT	1.02 (0.99, 1.04)	1.58E-01	Sun
SFTPB	1.02 (0.99, 1.05)	1.59E-01	Emilsson
ERLEC1	0.93 (0.83, 1.03)	1.61E-01	Sun
CCL3L1	1.04 (0.98, 1.10)	1.65E-01	Sun
QDPR	1.03 (0.99, 1.07)	1.66E-01	Sun
C9	1.13 (0.95, 1.34)	1.70E-01	Emilsson
JAM3	1.07 (0.97, 1.19)	1.72E-01	Emilsson
SERPINA3	0.96 (0.92, 1.02)	1.74E-01	Suhre
THBS2	1.03 (0.99, 1.07)	1.74E-01	Sun
THBS4	1.09 (0.96, 1.24)	1.74E-01	Emilsson
NAAA	0.98 (0.94, 1.01)	1.76E-01	Sun
MMP7	0.96 (0.90, 1.02)	1.78E-01	Suhre
ACP6	1.02 (0.99, 1.04)	1.81E-01	Emilsson
MFAP2	0.94 (0.86, 1.03)	1.81E-01	Sun
ST3GAL1	0.95 (0.89, 1.02)	1.81E-01	Sun
UNC5D	1.09 (0.96, 1.25)	1.84E-01	Emilsson
ADAM12	0.94 (0.85, 1.03)	1.87E-01	Emilsson
CTGF	0.96 (0.90, 1.02)	1.87E-01	Emilsson
LILRB5	0.99 (0.97, 1.01)	1.87E-01	Sun
PRDX6	0.96 (0.91, 1.02)	1.90E-01	Emilsson
FAM3B	0.97 (0.92, 1.02)	1.91E-01	Sun
WISP1	1.03 (0.98, 1.09)	1.93E-01	Sun
PLXNC1	0.97 (0.93, 1.01)	1.94E-01	Sun
MANSC1	1.04 (0.98, 1.10)	1.97E-01	Sun
CA8	1.07 (0.97, 1.18)	1.98E-01	Emilsson
CRHBP	0.97 (0.94, 1.01)	1.98E-01	Emilsson
COL15A1	1.06 (0.97, 1.15)	2.02E-01	Sun
AMY2B	1.04 (0.98, 1.11)	2.03E-01	Emilsson
PXDN	0.93 (0.82, 1.04)	2.07E-01	Emilsson
PSMB1	0.97 (0.93, 1.02)	2.08E-01	Emilsson
TGFB1	0.95 (0.89, 1.03)	2.08E-01	Emilsson
CDON	0.98 (0.94, 1.01)	2.12E-01	Suhre
HBZ	1.01 (0.99, 1.04)	2.22E-01	Sun
GP5	1.08 (0.95, 1.23)	2.25E-01	Yao
SIGLEC14	1.01 (0.99, 1.03)	2.28E-01	Sun
CST4	0.95 (0.88, 1.03)	2.31E-01	Emilsson

ENTPD5	1.03 (0.98, 1.07)	2.31E-01	Sun
TREM2	0.88 (0.71, 1.09)	2.31E-01	Emilsson
VWC2	1.05 (0.97, 1.15)	2.31E-01	Emilsson
CNDP1	0.97 (0.92, 1.02)	2.33E-01	Suhre
IL16	1.03 (0.98, 1.09)	2.34E-01	Sun
TEK	0.95 (0.87, 1.04)	2.40E-01	Sun
GP6	0.97 (0.93, 1.02)	2.42E-01	Suhre
TNFSF12;TNFSF12-T	0.97 (0.92, 1.02)	2.42E-01	Sun
ALDH3A1	0.95 (0.88, 1.03)	2.43E-01	Sun
QPCT	0.96 (0.90, 1.03)	2.43E-01	Emilsson
CPB1	0.95 (0.87, 1.04)	2.46E-01	Sun
SPATA20	1.05 (0.97, 1.14)	2.48E-01	Sun
PKDCC	0.95 (0.87, 1.04)	2.50E-01	Emilsson
TAPBPL	1.01 (0.99, 1.03)	2.51E-01	Sun
PREP	1.04 (0.98, 1.10)	2.52E-01	Emilsson
INPP5B	1.04 (0.97, 1.10)	2.54E-01	Emilsson
FUT8	0.99 (0.96, 1.01)	2.55E-01	Sun
PLA2R1	0.99 (0.97, 1.01)	2.55E-01	Sun
BTNL8	1.04 (0.97, 1.12)	2.57E-01	Emilsson
CHIT1	1.01 (0.99, 1.04)	2.57E-01	Sun
EDAR	1.03 (0.98, 1.08)	2.59E-01	Suhre
RGMB	0.95 (0.87, 1.04)	2.59E-01	Sun
SCARF2	1.05 (0.97, 1.13)	2.60E-01	Sun
ISLR2	0.94 (0.85, 1.04)	2.63E-01	Sun
PYY	0.93 (0.81, 1.06)	2.65E-01	Emilsson
MANBA	0.98 (0.95, 1.01)	2.66E-01	Sun
RETN	1.05 (0.96, 1.14)	2.66E-01	Sun
FTCD	1.11 (0.93, 1.32)	2.68E-01	Emilsson
LIPN	1.01 (0.99, 1.03)	2.70E-01	Sun
FAM171B	0.96 (0.90, 1.03)	2.73E-01	Sun
DLK1	0.98 (0.95, 1.02)	2.79E-01	Sun
ADH7	0.96 (0.90, 1.03)	2.80E-01	Emilsson
PDLIM4	0.98 (0.93, 1.02)	2.81E-01	Emilsson
LGMN	1.07 (0.95, 1.20)	2.82E-01	Emilsson
B3GNT8	0.99 (0.96, 1.01)	2.83E-01	Emilsson
CST3	0.97 (0.92, 1.03)	2.83E-01	Yao
CTSC	1.02 (0.98, 1.06)	2.84E-01	Emilsson
SERPINF1	0.98 (0.94, 1.02)	2.84E-01	Sun
CTSH	1.01 (0.99, 1.04)	2.86E-01	Sun
CCL14	1.02 (0.98, 1.06)	2.87E-01	Sun
TNFAIP6	0.98 (0.95, 1.02)	2.88E-01	Sun
SLAMF7	1.01 (0.99, 1.04)	2.89E-01	Sun
EPHB2	1.02 (0.98, 1.07)	2.91E-01	Sun
QSOX2	0.97 (0.92, 1.03)	2.99E-01	Sun
APOB	0.97 (0.91, 1.03)	3.07E-01	Suhre
SPINT3	1.02 (0.98, 1.05)	3.07E-01	Sun
SULT2A1	0.96 (0.89, 1.04)	3.10E-01	Emilsson
MAN1C1	0.94 (0.84, 1.06)	3.12E-01	Emilsson
SPOCK2	0.96 (0.88, 1.04)	3.12E-01	Sun
QPCTL	0.96 (0.90, 1.03)	3.13E-01	Sun
NEO1	1.05 (0.95, 1.16)	3.14E-01	Sun
NT5C	1.04 (0.96, 1.12)	3.14E-01	Sun
COCH	1.03 (0.97, 1.10)	3.17E-01	Sun
PLEKHA7	0.94 (0.84, 1.06)	3.17E-01	Sun

SEMA3G	1.05 (0.95, 1.17)	3.17E-01	Sun
SIRPA	1.01 (0.99, 1.02)	3.17E-01	Sun
FAM3D	1.03 (0.97, 1.09)	3.21E-01	Sun
GFRAL	1.05 (0.95, 1.16)	3.21E-01	Sun
HGFAC	1.02 (0.98, 1.07)	3.21E-01	Suhre
IGFLR1	1.02 (0.98, 1.06)	3.24E-01	Sun
FLRT3	1.02 (0.98, 1.07)	3.26E-01	Sun
LRRN1	0.96 (0.89, 1.04)	3.38E-01	Sun
ALPP	0.97 (0.91, 1.03)	3.40E-01	Emilsson
UROS	1.05 (0.95, 1.17)	3.41E-01	Sun
CPM	0.95 (0.85, 1.06)	3.45E-01	Sun
CKM	1.06 (0.94, 1.20)	3.48E-01	Sun
SPON1	0.98 (0.93, 1.03)	3.49E-01	Sun
CD59	0.97 (0.92, 1.03)	3.50E-01	Sun
PLA2G2A	1.01 (0.99, 1.03)	3.52E-01	Sun
GSTO1	0.99 (0.97, 1.01)	3.58E-01	Sun
RTN4R	0.97 (0.91, 1.03)	3.58E-01	Sun
IGLL1	0.97 (0.91, 1.04)	3.64E-01	Sun
KDR	0.98 (0.94, 1.02)	3.65E-01	Sun
ARFIP1	1.04 (0.96, 1.12)	3.66E-01	Sun
GPC5	0.97 (0.92, 1.03)	3.69E-01	Sun
CTSS	1.02 (0.98, 1.07)	3.71E-01	Sun
PTGFRN	0.99 (0.97, 1.01)	3.72E-01	Sun
HS6ST1	1.04 (0.96, 1.12)	3.74E-01	Sun
GKN2	0.98 (0.94, 1.02)	3.77E-01	Emilsson
SERPINA11	1.04 (0.95, 1.13)	3.79E-01	Emilsson
CXCL6	0.99 (0.97, 1.01)	3.80E-01	Suhre
CNTFR	0.96 (0.88, 1.05)	3.82E-01	Sun
CALCOCO2	0.94 (0.81, 1.08)	3.84E-01	Emilsson
NTN1	0.98 (0.93, 1.03)	3.85E-01	Sun
RSPO4	1.05 (0.94, 1.17)	3.87E-01	Emilsson
WFIKKN1	1.05 (0.94, 1.18)	3.88E-01	Emilsson
GSTM3	0.93 (0.80, 1.09)	3.89E-01	Emilsson
VWA2	1.04 (0.95, 1.13)	3.91E-01	Emilsson
CYB5D2	1.05 (0.94, 1.19)	3.92E-01	Emilsson
DSC2	0.96 (0.86, 1.06)	3.97E-01	Sun
CNTN1	0.96 (0.88, 1.05)	4.00E-01	Yao
S100A4	0.96 (0.89, 1.05)	4.02E-01	Sun
FAM213A	0.96 (0.86, 1.06)	4.03E-01	Sun
COL18A1	0.95 (0.84, 1.07)	4.06E-01	Yao
CRISP2	1.01 (0.98, 1.05)	4.06E-01	Sun
MAN1A2	0.96 (0.87, 1.06)	4.09E-01	Emilsson
POMGNT2	1.03 (0.96, 1.11)	4.11E-01	Sun
APCS	0.98 (0.92, 1.04)	4.12E-01	Sun
AMY1A	0.98 (0.95, 1.02)	4.14E-01	Sun
AHSG	1.01 (0.98, 1.05)	4.16E-01	Sun
AOC1	1.01 (0.99, 1.04)	4.17E-01	Emilsson
TCN2	0.99 (0.96, 1.02)	4.18E-01	Sun
CTSB	0.98 (0.93, 1.03)	4.22E-01	Sun
NELL1	1.02 (0.98, 1.05)	4.30E-01	Sun
LRP8	0.95 (0.84, 1.08)	4.35E-01	Emilsson
RNASE4	1.02 (0.97, 1.07)	4.35E-01	Sun
CLEC4C	0.99 (0.97, 1.01)	4.36E-01	Emilsson
SELPLG	0.96 (0.86, 1.07)	4.36E-01	Emilsson

NRP2	1.04 (0.94, 1.15)	4.40E-01	Sun
TIMP3	0.99 (0.97, 1.01)	4.41E-01	Suhre
OLFM2	0.99 (0.96, 1.02)	4.42E-01	Emilsson
CLEC1B	0.98 (0.94, 1.03)	4.43E-01	Emilsson
APOL1	0.96 (0.88, 1.06)	4.44E-01	Sun
MBL2	1.01 (0.99, 1.03)	4.44E-01	Sun
CBLN1	1.01 (0.98, 1.04)	4.45E-01	Sun
GZMM	1.04 (0.95, 1.13)	4.46E-01	Sun
REG1A	1.03 (0.96, 1.10)	4.46E-01	Yao
GNPTG	1.04 (0.94, 1.16)	4.48E-01	Emilsson
TREM1	0.98 (0.92, 1.04)	4.48E-01	Emilsson
TF	0.97 (0.89, 1.05)	4.49E-01	Emilsson
CPZ	0.96 (0.88, 1.06)	4.50E-01	Sun
TCN1	0.98 (0.92, 1.04)	4.51E-01	Sun
GNRH2	0.97 (0.88, 1.06)	4.52E-01	Sun
UBASH3B	1.04 (0.93, 1.16)	4.52E-01	Emilsson
MTHFS	0.97 (0.88, 1.06)	4.53E-01	Sun
SIGLEC6	1.01 (0.98, 1.04)	4.53E-01	Suhre
TPST1	1.03 (0.95, 1.12)	4.53E-01	Sun
AZU1	0.97 (0.88, 1.06)	4.59E-01	Emilsson
SERPINF2	1.03 (0.95, 1.13)	4.63E-01	Sun
ALCAM	1.03 (0.94, 1.13)	4.64E-01	Sun
GSTA1	1.02 (0.97, 1.07)	4.68E-01	Sun
PCOLCE	0.97 (0.89, 1.06)	4.68E-01	Sun
MGAT2	0.97 (0.88, 1.06)	4.69E-01	Sun
CD55	0.99 (0.95, 1.03)	4.72E-01	Sun
VEGFC	1.01 (0.98, 1.05)	4.73E-01	Sun
MGP	0.97 (0.90, 1.05)	4.74E-01	Yao
NFASC	0.99 (0.95, 1.02)	4.76E-01	Sun
SPINK1	1.03 (0.94, 1.13)	4.79E-01	Emilsson
PF4V1	0.98 (0.94, 1.03)	4.82E-01	Sun
METTL24	1.04 (0.93, 1.16)	4.84E-01	Emilsson
IL12RB2	1.03 (0.95, 1.12)	4.85E-01	Sun
NPNT	0.96 (0.87, 1.07)	4.85E-01	Emilsson
B3GLCT	1.03 (0.95, 1.11)	4.86E-01	Emilsson
CLMP	1.03 (0.95, 1.11)	4.86E-01	Sun
CD300A	0.98 (0.93, 1.03)	4.87E-01	Emilsson
PLXNB2	1.01 (0.98, 1.05)	4.87E-01	Sun
CCL8	0.98 (0.93, 1.04)	4.89E-01	Suhre
LEPR	1.01 (0.99, 1.03)	4.89E-01	Sun
AFP	0.96 (0.85, 1.08)	4.90E-01	Emilsson
CPQ	1.02 (0.96, 1.08)	4.92E-01	Emilsson
CST7	0.99 (0.96, 1.02)	4.95E-01	Suhre
GFRA2	0.98 (0.92, 1.04)	4.96E-01	Sun
GPNMB	1.02 (0.96, 1.09)	4.98E-01	Sun
MRC2	1.04 (0.93, 1.16)	4.98E-01	Sun
SMOC1	1.03 (0.95, 1.12)	4.98E-01	Sun
TXNDC15	1.03 (0.95, 1.12)	4.98E-01	Emilsson
PDCD1LG2	0.98 (0.93, 1.04)	4.99E-01	Sun
ASIP	0.99 (0.94, 1.03)	5.00E-01	Emilsson
B4GALT2	0.98 (0.91, 1.05)	5.04E-01	Sun
CA13	1.02 (0.97, 1.07)	5.04E-01	Suhre
SFRP4	1.04 (0.93, 1.15)	5.08E-01	Emilsson
ADIPOQ	1.05 (0.91, 1.20)	5.09E-01	Emilsson

ADAM19	0.97 (0.90, 1.05)	5.16E-01	Emilsson
IFNAR1	1.04 (0.93, 1.15)	5.17E-01	Sun
TPST2	0.98 (0.90, 1.05)	5.21E-01	Sun
LRRC4C	1.05 (0.91, 1.20)	5.25E-01	Emilsson
WFDC5	1.03 (0.93, 1.15)	5.33E-01	Emilsson
C5	1.03 (0.93, 1.15)	5.34E-01	Emilsson
KIAA1161	1.02 (0.96, 1.09)	5.34E-01	Sun
POSTN	0.97 (0.90, 1.06)	5.35E-01	Emilsson
XXYL1	0.97 (0.88, 1.07)	5.37E-01	Emilsson
REG4	0.97 (0.87, 1.08)	5.40E-01	Sun
CCL5	0.98 (0.91, 1.05)	5.44E-01	Suhre
CREG1	1.03 (0.94, 1.12)	5.49E-01	Sun
CSGALNACT2	0.97 (0.87, 1.08)	5.50E-01	Sun
CNP	1.03 (0.93, 1.16)	5.52E-01	Emilsson
PPP3CA;PPP3R1	1.02 (0.96, 1.07)	5.52E-01	Suhre
RPN1	0.98 (0.93, 1.04)	5.60E-01	Sun
ADAMTS13	1.01 (0.97, 1.05)	5.62E-01	Sun
BPIFA2	1.06 (0.87, 1.28)	5.62E-01	Emilsson
GALNT16	1.03 (0.93, 1.14)	5.64E-01	Emilsson
FCER2	0.98 (0.93, 1.04)	5.66E-01	Sun
EMILIN3	0.98 (0.90, 1.06)	5.69E-01	Sun
PTGR1	0.98 (0.91, 1.05)	5.69E-01	Emilsson
ALPG	0.97 (0.88, 1.07)	5.75E-01	Emilsson
RNASE3	1.03 (0.93, 1.15)	5.75E-01	Emilsson
CRTAM	0.98 (0.90, 1.06)	5.79E-01	Emilsson
RET	1.02 (0.94, 1.11)	5.79E-01	Sun
NAGPA	1.02 (0.96, 1.08)	5.84E-01	Sun
FAM20A	1.02 (0.94, 1.11)	5.86E-01	Sun
HIBCH	0.99 (0.96, 1.02)	5.89E-01	Emilsson
SIGLEC9	1.00 (0.98, 1.01)	5.90E-01	Sun
CFHR1	0.99 (0.97, 1.02)	5.91E-01	Emilsson
DYNLL2	1.04 (0.90, 1.19)	5.93E-01	Emilsson
IGDCC4	1.02 (0.94, 1.11)	5.94E-01	Emilsson
CLEC11A	1.04 (0.90, 1.19)	5.95E-01	Emilsson
FLT4	1.02 (0.95, 1.10)	5.95E-01	Sun
PNLIPRP2	1.01 (0.99, 1.02)	5.95E-01	Emilsson
SECTM1	1.02 (0.95, 1.09)	5.95E-01	Sun
GPLY	1.01 (0.98, 1.04)	5.99E-01	Sun
TMEM132C	1.02 (0.94, 1.12)	5.99E-01	Sun
MTRF1L	0.97 (0.87, 1.09)	6.02E-01	Sun
HSD17B14	0.96 (0.84, 1.10)	6.03E-01	Emilsson
CPNE1	0.99 (0.96, 1.02)	6.04E-01	Sun
CA3	0.97 (0.86, 1.09)	6.06E-01	Sun
ASPN	0.99 (0.95, 1.03)	6.07E-01	Sun
SVEP1	1.01 (0.96, 1.06)	6.14E-01	Sun
PENK	1.01 (0.97, 1.05)	6.17E-01	Sun
PTGDS	0.98 (0.89, 1.07)	6.21E-01	Sun
SPOCK3	1.02 (0.95, 1.08)	6.27E-01	Sun
ART4	1.01 (0.98, 1.03)	6.31E-01	Sun
CST6	1.03 (0.92, 1.14)	6.32E-01	Sun
GGH	0.99 (0.95, 1.03)	6.34E-01	Sun
CYTL1	1.02 (0.95, 1.10)	6.38E-01	Emilsson
LGALS3	1.01 (0.97, 1.05)	6.43E-01	Folkersen
SHMT1	0.99 (0.93, 1.05)	6.43E-01	Emilsson

CD200R1	0.97 (0.87, 1.09)	6.46E-01	Sun
LGALS3BP	1.03 (0.91, 1.16)	6.47E-01	Emilsson
DNER	0.97 (0.86, 1.10)	6.49E-01	Emilsson
OLFM1	1.03 (0.91, 1.16)	6.53E-01	Emilsson
HDHD2	0.99 (0.95, 1.04)	6.54E-01	Sun
OAS1	0.98 (0.91, 1.06)	6.54E-01	Sun
IL11RA	1.02 (0.95, 1.09)	6.58E-01	Sun
CD33	1.00 (0.98, 1.03)	6.60E-01	Sun
CP	0.98 (0.90, 1.07)	6.64E-01	Yao
WFIKKN2	0.99 (0.96, 1.02)	6.65E-01	Sun
CNTN5	1.01 (0.97, 1.06)	6.66E-01	Suhre
PDIA5	1.01 (0.97, 1.05)	6.68E-01	Sun
PDCD5	0.99 (0.93, 1.05)	6.69E-01	Sun
NOV	0.98 (0.87, 1.09)	6.71E-01	Sun
HDGF	0.99 (0.92, 1.06)	6.77E-01	Emilsson
NPTXR	0.99 (0.93, 1.05)	6.78E-01	Emilsson
PCBD1	1.02 (0.91, 1.15)	6.78E-01	Emilsson
C3	1.02 (0.93, 1.12)	6.80E-01	Emilsson
FGFR3	1.02 (0.91, 1.15)	6.81E-01	Emilsson
ADGRE2	1.01 (0.95, 1.09)	6.82E-01	Suhre
CNTN4	1.01 (0.95, 1.09)	6.84E-01	Sun
WARS	1.02 (0.94, 1.11)	6.84E-01	Emilsson
NCAM2	0.99 (0.94, 1.05)	6.89E-01	Emilsson
RBP4	1.03 (0.90, 1.17)	6.89E-01	Emilsson
APMAP	1.02 (0.91, 1.15)	6.91E-01	Sun
C1RL	1.02 (0.94, 1.09)	6.93E-01	Emilsson
ANGPTL1	1.01 (0.96, 1.06)	6.94E-01	Sun
IL17RA	1.00 (0.97, 1.02)	6.96E-01	Suhre
ROR1	0.99 (0.94, 1.04)	6.98E-01	Sun
IL1RAP	1.00 (0.98, 1.03)	7.01E-01	Sun
GPC1	0.99 (0.93, 1.05)	7.02E-01	Sun
PTPRU	0.97 (0.86, 1.11)	7.02E-01	Emilsson
PSAPL1	0.99 (0.95, 1.03)	7.03E-01	Sun
CBLN4	1.02 (0.92, 1.14)	7.06E-01	Sun
AP1G2	1.02 (0.91, 1.16)	7.13E-01	Emilsson
PEAR1	1.02 (0.93, 1.11)	7.13E-01	Sun
DPT	1.01 (0.96, 1.06)	7.18E-01	Sun
NTM	0.99 (0.94, 1.04)	7.18E-01	Emilsson
IL27RA	1.00 (0.97, 1.02)	7.20E-01	Sun
HPX	0.98 (0.90, 1.07)	7.23E-01	Yao
NTRK3	1.02 (0.90, 1.16)	7.25E-01	Emilsson
SHANK3	1.01 (0.95, 1.08)	7.29E-01	Emilsson
NRP1	1.01 (0.95, 1.08)	7.31E-01	Sun
TMEM132D	0.98 (0.90, 1.08)	7.31E-01	Emilsson
ENDOU	0.98 (0.86, 1.11)	7.32E-01	Emilsson
COLEC12	1.02 (0.90, 1.16)	7.35E-01	Sun
ESD	1.01 (0.96, 1.05)	7.36E-01	Sun
ITIH2	1.00 (0.97, 1.02)	7.36E-01	Emilsson
CRLF1	0.99 (0.91, 1.07)	7.41E-01	Emilsson
KLK10	1.01 (0.96, 1.06)	7.44E-01	Emilsson
CA1	0.98 (0.86, 1.12)	7.62E-01	Emilsson
SOD3	1.01 (0.96, 1.06)	7.63E-01	Emilsson
PI3	1.01 (0.95, 1.07)	7.65E-01	Sun
CCDC126	0.99 (0.93, 1.06)	7.66E-01	Sun

CD14	0.99 (0.93, 1.05)	7.70E-01	Yao
PLXNA1	0.98 (0.88, 1.10)	7.71E-01	Emilsson
SPON2	1.01 (0.92, 1.12)	7.71E-01	Emilsson
SERPINA4	1.00 (0.97, 1.04)	7.72E-01	Sun
TFF1	1.01 (0.92, 1.12)	7.75E-01	Sun
ADH4	1.02 (0.90, 1.15)	7.79E-01	Emilsson
MXRA7	1.01 (0.93, 1.10)	7.79E-01	Sun
PRCP	0.99 (0.90, 1.08)	7.81E-01	Sun
NTNG1	0.99 (0.95, 1.04)	7.84E-01	Sun
RELT	1.01 (0.96, 1.06)	7.84E-01	Sun
SEMA3C	1.02 (0.91, 1.14)	7.89E-01	Sun
SPINK5	1.02 (0.90, 1.15)	7.89E-01	Emilsson
RRM2B	0.99 (0.88, 1.10)	7.93E-01	Sun
RNASE2	1.01 (0.93, 1.09)	8.01E-01	Sun
IL5RA	0.99 (0.93, 1.06)	8.03E-01	Sun
FGL1	1.01 (0.96, 1.05)	8.10E-01	Emilsson
SEMA5A	1.00 (0.97, 1.02)	8.11E-01	Sun
GPX7	0.99 (0.95, 1.04)	8.12E-01	Sun
GLCE	1.00 (0.97, 1.02)	8.13E-01	Sun
IL1R2	0.99 (0.95, 1.04)	8.15E-01	Sun
UCMA	1.01 (0.94, 1.08)	8.16E-01	Sun
VAV1	1.01 (0.90, 1.14)	8.17E-01	Emilsson
C1QC	1.00 (0.96, 1.05)	8.19E-01	Sun
NPTX1	1.01 (0.94, 1.08)	8.19E-01	Sun
GLO1	1.01 (0.90, 1.13)	8.21E-01	Emilsson
ZG16B	1.02 (0.89, 1.16)	8.21E-01	Emilsson
FCGR3B	1.01 (0.96, 1.05)	8.22E-01	Sun
GP1BA	0.99 (0.89, 1.10)	8.22E-01	Sun
LY9	1.01 (0.96, 1.05)	8.22E-01	Suhre
CDNF	1.01 (0.93, 1.10)	8.23E-01	Sun
CASP3	0.99 (0.92, 1.07)	8.24E-01	Suhre
ENPP5	1.00 (0.97, 1.02)	8.24E-01	Sun
PDGFD	1.01 (0.94, 1.08)	8.24E-01	Sun
RECQL	0.99 (0.94, 1.05)	8.24E-01	Emilsson
PPT1	1.00 (0.96, 1.05)	8.25E-01	Sun
MATN4	1.01 (0.92, 1.11)	8.26E-01	Sun
PCSK1	1.00 (0.98, 1.02)	8.26E-01	Sun
IGF2R	1.00 (0.97, 1.04)	8.27E-01	Sun
GRAMD1C	1.00 (0.97, 1.03)	8.29E-01	Sun
FCRL4	1.00 (0.98, 1.02)	8.32E-01	Sun
BPIFB1	1.00 (0.95, 1.04)	8.33E-01	Sun
CD300E	1.01 (0.94, 1.08)	8.33E-01	Emilsson
DSG2	1.01 (0.91, 1.13)	8.33E-01	Sun
SNCA	1.01 (0.92, 1.11)	8.33E-01	Sun
LAG3	0.99 (0.87, 1.12)	8.35E-01	Emilsson
SCARF1	1.00 (0.97, 1.04)	8.36E-01	Suhre
ACE	1.00 (0.97, 1.04)	8.40E-01	Emilsson
EBI3	1.00 (0.98, 1.02)	8.41E-01	Emilsson
PGLYRP2	1.00 (0.95, 1.04)	8.43E-01	Emilsson
ACHE	1.01 (0.95, 1.07)	8.48E-01	Emilsson
H6PD	1.00 (0.96, 1.03)	8.49E-01	Sun
CD5L	1.01 (0.94, 1.08)	8.51E-01	Yao
MANF	1.01 (0.94, 1.07)	8.54E-01	Emilsson
ASPH	0.99 (0.89, 1.10)	8.56E-01	Sun

FMOD	1.01 (0.88, 1.17)	8.58E-01	Emilsson
B3GALT6	0.99 (0.89, 1.10)	8.62E-01	Emilsson
PAM	1.00 (0.96, 1.04)	8.62E-01	Sun
NMRAL1	0.99 (0.94, 1.06)	8.64E-01	Sun
B4GALT6	1.00 (0.96, 1.04)	8.70E-01	Emilsson
CPB2	1.00 (0.98, 1.02)	8.70E-01	Suhre
FN1	1.00 (0.97, 1.03)	8.70E-01	Suhre
CNTNAP2	1.00 (0.96, 1.05)	8.75E-01	Sun
LECT2	1.00 (0.95, 1.07)	8.76E-01	Emilsson
S100A7	1.00 (0.97, 1.04)	8.80E-01	Emilsson
CRTAC1	1.00 (0.95, 1.06)	8.81E-01	Emilsson
NUDT12	1.01 (0.94, 1.08)	8.81E-01	Sun
GNMT	1.00 (0.96, 1.05)	8.82E-01	Emilsson
IL18RAP	1.00 (0.96, 1.04)	8.86E-01	Suhre
PCDH9	0.99 (0.90, 1.10)	8.87E-01	Emilsson
HPSE	1.00 (0.96, 1.05)	8.88E-01	Emilsson
ERAP2	1.00 (0.98, 1.02)	8.90E-01	Sun
IL1R1	0.99 (0.88, 1.12)	8.90E-01	Emilsson
SWAP70	1.01 (0.93, 1.08)	8.90E-01	Sun
NMB	0.99 (0.88, 1.12)	8.92E-01	Emilsson
RNASE6	1.00 (0.98, 1.02)	8.92E-01	Sun
ACP5	1.00 (0.95, 1.06)	8.95E-01	Sun
WFDC1	1.00 (0.95, 1.06)	8.95E-01	Emilsson
CD7	1.00 (0.95, 1.04)	8.98E-01	Emilsson
CHST9	1.00 (0.95, 1.07)	8.98E-01	Sun
LILRA6	1.00 (0.97, 1.03)	9.01E-01	Sun
TGFBI	1.00 (0.96, 1.04)	9.01E-01	Sun
CLN5	1.01 (0.86, 1.19)	9.07E-01	Emilsson
TMEM190	1.00 (0.98, 1.02)	9.07E-01	Sun
ART3	1.00 (0.93, 1.06)	9.09E-01	Sun
LGALS2	1.00 (0.93, 1.07)	9.12E-01	Sun
C1QTNF3	1.01 (0.88, 1.15)	9.14E-01	Emilsson
FLRT2	0.99 (0.91, 1.09)	9.15E-01	Sun
OSCAR	1.01 (0.88, 1.15)	9.17E-01	Emilsson
C7	1.00 (0.95, 1.05)	9.20E-01	Suhre
LILRB1	1.00 (0.98, 1.02)	9.21E-01	Sun
CTRB1	1.00 (0.96, 1.04)	9.28E-01	Sun
FCN1	1.00 (0.96, 1.03)	9.30E-01	Sun
APOA5	1.00 (0.91, 1.11)	9.36E-01	Sun
PPIE	1.00 (0.95, 1.05)	9.37E-01	Sun
PPIL1	1.00 (0.95, 1.05)	9.44E-01	Sun
LPA	1.00 (0.97, 1.03)	9.46E-01	Yao
ICAM5	1.00 (0.98, 1.02)	9.47E-01	Sun
CD300C	1.00 (0.92, 1.08)	9.48E-01	Sun
CCL25	1.00 (0.96, 1.04)	9.50E-01	Sun
FKBP7	1.00 (0.94, 1.07)	9.52E-01	Emilsson
RGMA	1.00 (0.90, 1.10)	9.53E-01	Sun
MIA	1.00 (0.98, 1.02)	9.55E-01	Sun
TYMP	1.00 (0.88, 1.14)	9.57E-01	Emilsson
CFH	1.00 (0.95, 1.05)	9.58E-01	Sun
SIGLEC7	1.00 (0.93, 1.08)	9.60E-01	Sun
QSOX1	1.00 (0.95, 1.05)	9.61E-01	Sun
FCN2	1.00 (0.96, 1.04)	9.62E-01	Sun
BST1	1.00 (0.98, 1.02)	9.63E-01	Sun

LYVE1	1.00 (0.90, 1.11)	9.64E-01	Emilsson
IL23R	1.00 (0.91, 1.10)	9.65E-01	Sun
MAN2B2	1.00 (0.94, 1.06)	9.66E-01	Sun
NEGR1	1.00 (0.88, 1.13)	9.66E-01	Emilsson
NUDT9	1.00 (0.92, 1.08)	9.66E-01	Sun
TIMP2	1.00 (0.94, 1.07)	9.67E-01	Emilsson
SCUBE1	1.00 (0.91, 1.10)	9.69E-01	Emilsson
ADH5	1.00 (0.93, 1.07)	9.70E-01	Emilsson
CST5	1.00 (0.97, 1.03)	9.72E-01	Suhre
IFNLR1	1.00 (0.89, 1.12)	9.72E-01	Emilsson
LSAMP	1.00 (0.90, 1.10)	9.72E-01	Emilsson
SCG3	1.00 (0.95, 1.05)	9.73E-01	Sun
GSN	1.00 (0.86, 1.17)	9.74E-01	Emilsson
ADAM22	1.00 (0.90, 1.11)	9.75E-01	Emilsson
DKK1	1.00 (0.90, 1.11)	9.76E-01	Sun
LRPAP1	1.00 (0.91, 1.10)	9.77E-01	Sun
OSMR	1.00 (0.91, 1.11)	9.78E-01	Sun
CFHR4	1.00 (0.97, 1.03)	9.85E-01	Emilsson
IL6ST	1.00 (0.92, 1.08)	9.85E-01	Sun
PRSS57	1.00 (0.97, 1.03)	9.85E-01	Emilsson
TNFRSF11A	1.00 (0.91, 1.10)	9.85E-01	Sun
TEPSIN	1.00 (0.94, 1.06)	9.88E-01	Sun
SEMA4D	1.00 (0.98, 1.02)	9.90E-01	Emilsson
CCL16	1.00 (0.98, 1.02)	9.91E-01	Sun
SIRPG	1.00 (0.93, 1.08)	9.92E-01	Sun
IL18R1	1.00 (0.98, 1.02)	9.93E-01	Sun
POGLUT1	1.00 (0.91, 1.10)	9.96E-01	Sun
POFUT1	1.00 (0.93, 1.07)	1.00E+00	Sun

Supplementary Table S5 MR results for the external validation

Protein	OR (95% CI)	P value
TIMP4	1.17 (1.10, 1.24)	1.49E-07
ITGA2	0.68 (0.55, 0.84)	4.40E-04
P4HB	1.55 (1.21, 1.99)	4.92E-04
MMP12	0.94 (0.91, 0.98)	9.07E-04
LYPLAL1	1.37 (1.14, 1.66)	9.72E-04
LAMC2	0.95 (0.91, 0.98)	1.06E-03
MMP19	1.35 (1.13, 1.61)	1.12E-03
GSTT1	1.06 (1.02, 1.09)	1.38E-03
ANGPTL3	0.87 (0.80, 0.95)	1.59E-03
CST6	1.40 (1.13, 1.72)	1.59E-03
DPP7	0.93 (0.89, 0.97)	1.62E-03
SERPINA1	0.92 (0.87, 0.97)	1.69E-03
DUT	0.60 (0.43, 0.83)	1.90E-03
RNASET2	1.12 (1.04, 1.20)	2.47E-03
GCKR	1.38 (1.11, 1.70)	2.99E-03
CCS	1.28 (1.08, 1.52)	4.34E-03
LILRA3	0.68 (0.52, 0.89)	4.73E-03
RNASE1	1.15 (1.04, 1.26)	6.75E-03
PAICS	0.74 (0.59, 0.92)	6.89E-03
CNTNAP2	0.79 (0.67, 0.94)	7.50E-03
VNN2	1.11 (1.03, 1.21)	7.97E-03
TCEA2	1.21 (1.05, 1.39)	8.20E-03
HS6ST3	1.29 (1.07, 1.55)	8.66E-03
ECM1	0.96 (0.94, 0.99)	8.77E-03
SHBG	0.86 (0.77, 0.96)	9.10E-03
CDHR5	0.64 (0.45, 0.90)	9.59E-03
LHB	1.10 (1.02, 1.19)	9.66E-03
DKK3	1.08 (1.02, 1.15)	1.00E-02
SNPH	1.49 (1.10, 2.02)	1.05E-02
CD177	1.09 (1.02, 1.16)	1.08E-02
AKR1A1	0.95 (0.91, 0.99)	1.15E-02
PRTN3	1.06 (1.01, 1.12)	1.29E-02
IL6R	1.02 (1.01, 1.04)	1.30E-02
CD68	1.59 (1.10, 2.29)	1.34E-02
PDGFRL	0.92 (0.87, 0.98)	1.41E-02
WFIKKN1	1.19 (1.04, 1.37)	1.41E-02
SCGB3A1	1.25 (1.04, 1.49)	1.46E-02
CRHBP	1.13 (1.02, 1.25)	1.55E-02
DPEP1	1.05 (1.01, 1.09)	1.55E-02
LRRC15	1.08 (1.01, 1.14)	1.62E-02
EPHA2	0.85 (0.74, 0.97)	1.70E-02
GUK1	0.88 (0.79, 0.98)	1.71E-02
BPNT1	1.54 (1.08, 2.21)	1.85E-02
CAPN2	0.80 (0.66, 0.96)	1.91E-02
MAPK9	1.17 (1.03, 1.34)	1.91E-02
HK2	0.67 (0.48, 0.94)	2.03E-02
IL1RN	1.14 (1.02, 1.27)	2.05E-02
MIF	0.72 (0.55, 0.95)	2.05E-02
VPS26A	0.87 (0.78, 0.98)	2.05E-02
SEMA4A	0.87 (0.78, 0.98)	2.13E-02
ENO3	0.93 (0.88, 0.99)	2.16E-02
NAAA	0.92 (0.86, 0.99)	2.17E-02

WIF1	1.44 (1.05, 1.96)	2.17E-02
MASP1	1.48 (1.06, 2.07)	2.25E-02
CASS4	0.65 (0.45, 0.94)	2.30E-02
ARHGAP25	1.17 (1.02, 1.34)	2.42E-02
HP	1.04 (1.00, 1.07)	2.46E-02
CRNN	0.84 (0.71, 0.98)	2.60E-02
PDGFRB	1.02 (1.00, 1.03)	2.65E-02
ANXA11	0.87 (0.77, 0.98)	2.77E-02
RCL	1.21 (1.02, 1.44)	2.84E-02
CSF2RB	1.04 (1.00, 1.08)	2.85E-02
WFDC5	1.46 (1.04, 2.06)	2.92E-02
KREMEN1	1.12 (1.01, 1.24)	2.98E-02
NAGK	0.88 (0.78, 0.99)	3.01E-02
CTSH	1.07 (1.01, 1.14)	3.09E-02
THYN1	0.66 (0.45, 0.96)	3.13E-01
LAP3	0.69 (0.49, 0.97)	3.17E-02
C10orf54	1.06 (1.01, 1.13)	3.19E-02
NADK	0.84 (0.72, 0.99)	3.21E-02
VIT	1.06 (1.00, 1.11)	3.26E-02
NME4	1.23 (1.02, 1.50)	3.31E-02
PDCD6IP	1.22 (1.02, 1.47)	3.36E-02
LTBP4	1.46 (1.03, 2.06)	3.48E-02
PLAU	1.18 (1.01, 1.37)	3.50E-02
LILRA6	0.93 (0.87, 0.99)	3.52E-02
MAPRE1	1.37 (1.01, 1.84)	4.07E-02
HAVCR1	0.94 (0.89, 1.00)	4.09E-02
GAS6	0.93 (0.86, 1.00)	4.13E-02
CD72	1.23 (1.01, 1.49)	4.14E-02
ITLN1	0.77 (0.60, 0.99)	4.14E-02
TBCB	0.76 (0.58, 0.99)	4.16E-02
FSTL1	0.88 (0.77, 1.00)	4.22E-02
COLGALT1	0.86 (0.74, 1.00)	4.44E-02
IGFBP7	0.93 (0.87, 1.00)	4.45E-02
ESM1	1.15 (1.00, 1.32)	4.51E-02
SIGLEC6	1.07 (1.00, 1.14)	4.55E-02
UNC5D	1.21 (1.00, 1.45)	4.55E-02
C4BPA	1.19 (1.00, 1.41)	4.72E-02
HSP90B1	0.97 (0.95, 1.00)	4.88E-02
ESAM	0.88 (0.77, 1.00)	4.98E-02
CFI	1.10 (1.00, 1.21)	5.14E-02
SEMA3E	0.97 (0.95, 1.00)	5.21E-02
POLM	0.93 (0.86, 1.00)	5.22E-02
AES	1.52 (0.99, 2.32)	5.30E-02
VASN	0.77 (0.59, 1.00)	5.30E-02
KLK12	0.87 (0.76, 1.00)	5.39E-02
SPARCL1	1.03 (1.00, 1.07)	5.39E-02
NANS	1.29 (1.00, 1.67)	5.43E-02
LZIC	0.69 (0.48, 1.01)	5.48E-02
CREB3L4	0.91 (0.83, 1.00)	5.69E-02
CD58	0.91 (0.83, 1.00)	5.74E-02
SLITRK3	0.93 (0.87, 1.00)	5.89E-02
AGRN	1.08 (1.00, 1.17)	5.94E-02
IGSF3	0.80 (0.63, 1.01)	5.99E-02
TSTD1	1.05 (1.00, 1.12)	6.04E-02

NPW	0.96 (0.92, 1.00)	6.06E-02
DCXR	0.81 (0.65, 1.01)	6.31E-02
PATE4	1.16 (0.99, 1.35)	6.37E-02
ETFA	1.36 (0.98, 1.89)	6.38E-02
C9	1.34 (0.98, 1.83)	6.39E-02
CHGB	1.17 (0.99, 1.39)	6.47E-02
RSPO1	1.10 (0.99, 1.21)	6.50E-02
IDH1	1.12 (0.99, 1.26)	6.54E-02
PTPRU	0.81 (0.65, 1.01)	6.55E-02
NDE1	0.78 (0.60, 1.02)	6.56E-02
PSME2	1.27 (0.98, 1.63)	6.65E-02
BPHL	0.83 (0.69, 1.01)	6.69E-02
PSME1	1.38 (0.98, 1.94)	6.75E-02
LILRA5	0.80 (0.63, 1.02)	6.78E-02
PLEK	0.84 (0.70, 1.01)	6.86E-02
TLR1	0.85 (0.71, 1.01)	6.89E-02
UROD	1.07 (0.99, 1.16)	6.89E-02
PIP	0.96 (0.92, 1.00)	6.91E-02
PCYOX1	0.97 (0.93, 1.00)	7.04E-02
KIAA1467	0.90 (0.81, 1.01)	7.21E-02
PIGR	0.89 (0.78, 1.01)	7.22E-02
TNC	1.02 (1.00, 1.04)	7.24E-02
DEFA5	1.32 (0.97, 1.80)	7.25E-02
CDH5	0.88 (0.77, 1.01)	7.34E-02
IL22RA2	0.85 (0.71, 1.02)	7.35E-02
KIAA1549L	0.94 (0.89, 1.01)	7.40E-02
MDGA2	1.05 (0.99, 1.11)	7.60E-02
PRSS8	1.29 (0.97, 1.72)	7.93E-02
FAS	0.93 (0.86, 1.01)	8.01E-02
SMAD1	1.40 (0.96, 2.04)	8.01E-02
CHAD	1.35 (0.96, 1.88)	8.10E-02
FAM151A	1.05 (0.99, 1.12)	8.28E-02
PPP1R14A	1.09 (0.99, 1.21)	8.40E-02
SPINT2	1.03 (1.00, 1.06)	8.40E-02
LAYN	0.71 (0.49, 1.05)	8.46E-02
NME2	1.11 (0.99, 1.26)	8.46E-02
CLEC11A	1.06 (0.99, 1.12)	8.52E-02
ENPEP	0.96 (0.91, 1.01)	8.54E-02
GRN	1.08 (0.99, 1.18)	8.73E-02
OVCA2	1.13 (0.98, 1.30)	8.81E-02
B4GALT2	1.34 (0.96, 1.87)	8.89E-02
MBL2	0.96 (0.91, 1.01)	8.97E-02
IL17RD	1.07 (0.99, 1.17)	8.99E-02
BDH2	0.92 (0.84, 1.01)	9.01E-02
INHBB	0.76 (0.55, 1.05)	9.21E-02
OXT	0.95 (0.89, 1.01)	9.68E-02
DPY30	0.75 (0.54, 1.05)	9.83E-02
C6	0.75 (0.53, 1.06)	1.00E-01
MCEE	1.32 (0.95, 1.84)	1.01E-01
SPINK2	1.07 (0.99, 1.17)	1.03E-01
CPLX1	1.31 (0.95, 1.81)	1.04E-01
MMAB	1.41 (0.93, 2.15)	1.04E-01
MAPK3	1.22 (0.96, 1.54)	1.06E-01
POSTN	0.91 (0.81, 1.02)	1.06E-01

PTK7	0.83 (0.65, 1.04)	1.07E-01
GGPS1	0.82 (0.64, 1.05)	1.08E-01
HOMER2	0.79 (0.59, 1.05)	1.09E-01
RARRES2	0.93 (0.86, 1.02)	1.10E-01
ARF4	1.19 (0.96, 1.49)	1.13E-01
CNRIP1	0.97 (0.93, 1.01)	1.14E-01
DLL1	1.16 (0.96, 1.40)	1.14E-01
NRK1	1.11 (0.98, 1.25)	1.14E-01
FBLN1	0.90 (0.78, 1.03)	1.15E-01
LILRA2	1.09 (0.98, 1.22)	1.15E-01
APP	1.21 (0.95, 1.55)	1.17E-01
ISG15	0.95 (0.90, 1.01)	1.17E-01
PNLIPRP1	0.90 (0.79, 1.03)	1.17E-01
PTHLH	1.15 (0.97, 1.37)	1.17E-01
COL2A1	0.98 (0.95, 1.01)	1.18E-01
UGT1A6	1.16 (0.96, 1.39)	1.20E-01
APOF	0.92 (0.83, 1.02)	1.21E-01
PFKM	1.10 (0.98, 1.23)	1.21E-01
SRA1	1.13 (0.97, 1.32)	1.21E-01
C1QL1	1.20 (0.95, 1.52)	1.22E-01
FAM171B	0.90 (0.78, 1.03)	1.25E-01
FKBP2	0.72 (0.47, 1.10)	1.25E-01
SERPINB5	1.12 (0.97, 1.29)	1.25E-01
CA6	1.04 (0.99, 1.09)	1.28E-01
CCDC134	1.16 (0.96, 1.41)	1.30E-01
ICAM4	0.85 (0.69, 1.05)	1.31E-01
TPSB2	1.04 (0.99, 1.09)	1.31E-01
ACP1	1.01 (1.00, 1.03)	1.34E-01
NIT2	1.20 (0.95, 1.51)	1.34E-01
EDIL3	0.78 (0.57, 1.08)	1.35E-01
ITIH1	0.97 (0.94, 1.01)	1.35E-01
NUDCD3	1.24 (0.94, 1.63)	1.35E-01
SERPINF2	1.11 (0.97, 1.27)	1.37E-01
CNN1	1.28 (0.92, 1.79)	1.38E-01
IL1RL1	0.97 (0.93, 1.01)	1.38E-01
RAB6B	0.93 (0.84, 1.02)	1.38E-01
AGT	1.08 (0.98, 1.18)	1.39E-01
CRTAM	1.05 (0.99, 1.11)	1.39E-01
BPI	1.04 (0.99, 1.10)	1.40E-01
SERPINB8	0.92 (0.82, 1.03)	1.40E-01
RSPO4	1.32 (0.91, 1.91)	1.41E-01
TIE1	0.92 (0.82, 1.03)	1.41E-01
MIA	1.26 (0.92, 1.73)	1.42E-01
SEMA5A	0.74 (0.50, 1.11)	1.43E-01
B4GALT1	1.08 (0.97, 1.20)	1.45E-01
CD109	0.97 (0.94, 1.01)	1.45E-01
LRIG3	1.06 (0.98, 1.13)	1.46E-01
FCRL6	1.12 (0.96, 1.31)	1.47E-01
NTN4	0.93 (0.84, 1.03)	1.47E-01
EGLN1	0.79 (0.57, 1.09)	1.48E-01
HGD	1.14 (0.96, 1.35)	1.49E-01
MMP13	1.28 (0.92, 1.78)	1.50E-01
RBP1	0.82 (0.63, 1.07)	1.50E-01
OSMR	1.11 (0.96, 1.29)	1.51E-01

SH3BP2	0.95 (0.88, 1.02)	1.52E-01
VEGFA	1.02 (0.99, 1.06)	1.53E-01
MAN1C1	0.93 (0.84, 1.03)	1.54E-01
TAGLN	1.17 (0.94, 1.45)	1.54E-01
ARHGEF25	0.89 (0.75, 1.05)	1.55E-01
OAF	1.15 (0.95, 1.40)	1.55E-01
PGLS	1.17 (0.94, 1.45)	1.55E-01
CINP	0.77 (0.54, 1.10)	1.56E-01
IL12RB1	1.19 (0.93, 1.53)	1.56E-01
NUCB1	1.12 (0.96, 1.30)	1.56E-01
LCT	1.01 (0.99, 1.03)	1.58E-01
NUDT12	0.87 (0.72, 1.06)	1.59E-01
OBP2B	0.96 (0.91, 1.02)	1.59E-01
SFTPB	1.04 (0.99, 1.09)	1.59E-01
TYRO3	0.89 (0.75, 1.05)	1.59E-01
TPSAB1	0.97 (0.93, 1.01)	1.61E-01
NDST1	1.11 (0.96, 1.27)	1.63E-01
PSAP	1.05 (0.98, 1.12)	1.63E-01
F10	1.15 (0.94, 1.41)	1.64E-01
CCL18	1.02 (0.99, 1.05)	1.65E-01
PMM2	0.92 (0.82, 1.04)	1.65E-01
PGM2	0.84 (0.65, 1.08)	1.66E-01
GPCPD1	0.83 (0.63, 1.09)	1.70E-01
CYB5R2	0.91 (0.80, 1.04)	1.71E-01
CXCL10	0.85 (0.68, 1.07)	1.77E-01
MANSC1	1.05 (0.98, 1.14)	1.80E-01
KLC1	0.87 (0.71, 1.07)	1.81E-01
NOTUM	1.18 (0.93, 1.51)	1.81E-01
ATRN	0.95 (0.87, 1.03)	1.83E-01
GSTP1	0.91 (0.79, 1.05)	1.84E-01
LGMN	1.10 (0.95, 1.28)	1.86E-01
TPI1	1.26 (0.89, 1.78)	1.86E-01
AKR1B1	0.85 (0.68, 1.08)	1.90E-01
CLINT1	1.28 (0.88, 1.85)	1.90E-01
DNAJB12	1.17 (0.93, 1.47)	1.92E-01
SPINK7	1.11 (0.95, 1.30)	1.93E-01
THBS2	0.94 (0.85, 1.03)	1.93E-01
GSTZ1	0.99 (0.97, 1.01)	1.94E-01
PPIC	1.03 (0.98, 1.08)	1.94E-01
CHRDL2	0.86 (0.68, 1.08)	1.95E-01
RPE	0.86 (0.68, 1.08)	1.98E-01
TEC	0.90 (0.76, 1.06)	1.98E-01
TFF2	1.15 (0.93, 1.41)	1.99E-01
GFRA1	1.07 (0.96, 1.19)	2.00E-01
CFL2	1.12 (0.94, 1.33)	2.01E-01
IL1RL2	0.93 (0.83, 1.04)	2.02E-01
SIRPB1	0.98 (0.96, 1.01)	2.03E-01
TREML2	0.97 (0.94, 1.01)	2.04E-01
CA8	1.03 (0.98, 1.08)	2.05E-01
APOA1BP	0.94 (0.85, 1.03)	2.07E-01
CDON	0.97 (0.93, 1.02)	2.10E-01
CST3	0.95 (0.87, 1.03)	2.10E-01
NID2	1.02 (0.99, 1.06)	2.10E-01
FAM19A5	0.77 (0.51, 1.16)	2.13E-01

C1QTNF9	0.94 (0.84, 1.04)	2.14E-01
ECH1	0.96 (0.90, 1.02)	2.14E-01
MFGE8	0.95 (0.88, 1.03)	2.15E-01
MYOM2	1.26 (0.87, 1.82)	2.16E-01
ADGRE2	1.04 (0.98, 1.10)	2.18E-01
CNTN1	0.95 (0.88, 1.03)	2.19E-01
ENTPD5	1.03 (0.98, 1.07)	2.21E-01
BCAN	1.07 (0.96, 1.18)	2.22E-01
GDF15	0.97 (0.93, 1.02)	2.22E-01
HBZ	1.02 (0.99, 1.04)	2.22E-01
PARK7	0.88 (0.71, 1.08)	2.22E-01
SPINK6	0.96 (0.89, 1.03)	2.22E-01
EPHA5	1.21 (0.89, 1.65)	2.23E-01
FGG	0.93 (0.82, 1.05)	2.23E-01
ISLR2	0.95 (0.87, 1.03)	2.25E-01
RAB31	1.10 (0.94, 1.28)	2.29E-01
ZADH2	1.13 (0.92, 1.39)	2.29E-01
IL16	1.02 (0.99, 1.06)	2.30E-01
BDNF	0.85 (0.65, 1.11)	2.31E-01
CRELD1	0.97 (0.92, 1.02)	2.32E-01
CXCL1	0.98 (0.95, 1.01)	2.33E-01
HTRA1	1.13 (0.92, 1.39)	2.34E-01
ALDH3A1	0.91 (0.78, 1.06)	2.35E-01
ANGPT1	0.90 (0.75, 1.07)	2.36E-01
LRP12	0.81 (0.57, 1.15)	2.36E-01
PLXNC1	0.96 (0.90, 1.03)	2.36E-01
GPC5	1.13 (0.92, 1.39)	2.38E-01
TPP1	1.09 (0.94, 1.26)	2.39E-01
EGF	1.12 (0.92, 1.36)	2.41E-01
INHBC	0.83 (0.61, 1.13)	2.42E-01
CDCP1	0.95 (0.88, 1.03)	2.43E-01
SPATA20	1.04 (0.97, 1.11)	2.44E-01
IGSF8	0.93 (0.81, 1.05)	2.45E-01
ANTXR2	1.07 (0.96, 1.19)	2.47E-01
IMPAD1	1.09 (0.94, 1.28)	2.50E-01
FAM49B	1.24 (0.86, 1.79)	2.51E-01
NETO1	0.83 (0.60, 1.14)	2.51E-01
UBXN2B	1.20 (0.88, 1.64)	2.52E-01
CST4	0.95 (0.88, 1.04)	2.54E-01
GNLY	0.95 (0.88, 1.04)	2.54E-01
FUT8	0.99 (0.96, 1.01)	2.55E-01
KL	0.93 (0.83, 1.05)	2.55E-01
PLA2R1	0.99 (0.96, 1.01)	2.55E-01
CNDP1	0.96 (0.90, 1.03)	2.56E-01
TNFSF12	0.97 (0.92, 1.02)	2.58E-01
ALKBH3	1.05 (0.97, 1.14)	2.59E-01
EPHB1	1.04 (0.97, 1.11)	2.59E-01
SCARF2	1.09 (0.94, 1.26)	2.60E-01
TAPBPL	1.01 (0.99, 1.03)	2.63E-01
CCL23	0.96 (0.90, 1.03)	2.64E-01
RGMB	0.93 (0.81, 1.06)	2.64E-01
GSTO1	0.99 (0.96, 1.01)	2.65E-01
MSR1	0.91 (0.78, 1.07)	2.65E-01
GLIPR2	1.04 (0.97, 1.12)	2.66E-01

PTEN	1.39 (0.78, 2.47)	2.66E-01
LIPN	1.02 (0.99, 1.04)	2.70E-01
ADAM23	1.03 (0.98, 1.09)	2.74E-01
CFD	0.90 (0.73, 1.09)	2.74E-01
CD48	0.95 (0.86, 1.05)	2.76E-01
PLEKHA7	0.97 (0.93, 1.02)	2.76E-01
ANXA5	1.08 (0.94, 1.24)	2.77E-01
NLGN1	0.92 (0.78, 1.07)	2.77E-01
CFHR3	1.10 (0.93, 1.30)	2.79E-01
DLK1	0.98 (0.94, 1.02)	2.79E-01
TNR	1.08 (0.94, 1.25)	2.79E-01
HSPB1	1.07 (0.94, 1.22)	2.80E-01
POR	1.07 (0.95, 1.20)	2.80E-01
CSRP1	1.12 (0.91, 1.37)	2.81E-01
ARG1	0.89 (0.72, 1.10)	2.82E-01
COCH	1.04 (0.97, 1.11)	2.82E-01
COL9A1	1.17 (0.88, 1.57)	2.82E-01
FOXO3	0.81 (0.55, 1.19)	2.82E-01
B3GNT8	0.99 (0.97, 1.01)	2.83E-01
ADGRF5	0.94 (0.85, 1.05)	2.84E-01
CD59	0.94 (0.85, 1.05)	2.84E-01
METAP1	0.84 (0.61, 1.15)	2.84E-01
PRSS27	1.06 (0.95, 1.19)	2.84E-01
SERPINF1	0.96 (0.90, 1.03)	2.84E-01
EDAR	1.05 (0.96, 1.13)	2.85E-01
IBSP	0.89 (0.73, 1.10)	2.87E-01
FLII	0.89 (0.73, 1.10)	2.89E-01
SLAMF7	1.01 (0.99, 1.04)	2.89E-01
FBLN5	1.15 (0.88, 1.51)	2.91E-01
GIF	1.06 (0.95, 1.18)	2.91E-01
TCN2	1.03 (0.98, 1.09)	2.92E-01
APOB	0.87 (0.67, 1.13)	2.94E-01
SAA1	1.02 (0.98, 1.07)	2.95E-01
VAV1	1.22 (0.84, 1.77)	2.95E-01
ECI2	1.03 (0.98, 1.08)	2.96E-01
INSR	1.15 (0.89, 1.48)	2.96E-01
PDLIM4	0.94 (0.84, 1.06)	2.96E-01
SAA2	1.03 (0.98, 1.08)	2.96E-01
A4GALT	0.88 (0.70, 1.11)	2.97E-01
GAA	1.03 (0.97, 1.10)	2.97E-01
SPOCK2	0.95 (0.86, 1.05)	2.97E-01
ASL	1.09 (0.93, 1.27)	2.98E-01
PCDH9	1.06 (0.95, 1.18)	2.98E-01
PSAT1	0.92 (0.78, 1.08)	2.98E-01
QSOX2	0.97 (0.91, 1.03)	2.99E-01
EFEMP1	0.91 (0.77, 1.08)	3.02E-01
EPB41	1.17 (0.87, 1.57)	3.02E-01
TAGLN2	0.90 (0.73, 1.10)	3.02E-01
VOPP1	1.13 (0.90, 1.41)	3.02E-01
LEFTY2	1.06 (0.95, 1.18)	3.03E-01
IFIT3	0.88 (0.68, 1.13)	3.05E-01
CFH	1.05 (0.96, 1.15)	3.06E-01
NOG	1.03 (0.97, 1.10)	3.06E-01
SLITRK1	0.85 (0.62, 1.16)	3.06E-01

CHL1	1.04 (0.96, 1.14)	3.12E-01
HRSP12	1.07 (0.94, 1.23)	3.12E-01
IGFBP4	1.18 (0.86, 1.62)	3.12E-01
IGLON5	1.08 (0.93, 1.27)	3.12E-01
TNFAIP6	0.98 (0.95, 1.02)	3.12E-01
SEPSECS	0.87 (0.67, 1.13)	3.13E-01
APOL3	0.99 (0.96, 1.01)	3.17E-01
CELA2A	0.89 (0.70, 1.12)	3.17E-01
CHRD	1.18 (0.86, 1.62)	3.17E-01
DAPK2	1.04 (0.97, 1.11)	3.17E-01
SIRPA	1.01 (0.99, 1.02)	3.17E-01
C1orf198	0.92 (0.78, 1.09)	3.21E-01
MMP7	0.93 (0.80, 1.08)	3.21E-01
LMAN2L	1.08 (0.93, 1.27)	3.22E-01
IGFLR1	1.02 (0.98, 1.07)	3.24E-01
CST1	1.02 (0.98, 1.06)	3.26E-01
CST2	1.02 (0.98, 1.06)	3.26E-01
SCUBE3	1.05 (0.95, 1.16)	3.28E-01
CLN5	0.91 (0.74, 1.10)	3.32E-01
RET	1.03 (0.97, 1.09)	3.32E-01
CD36	0.94 (0.83, 1.07)	3.33E-01
GFRAL	1.07 (0.93, 1.24)	3.33E-01
HMHA1	0.93 (0.80, 1.08)	3.33E-01
TDGF1	1.07 (0.93, 1.22)	3.33E-01
CBR3	1.04 (0.96, 1.13)	3.37E-01
SCARA5	1.04 (0.96, 1.13)	3.37E-01
PTGES2	0.85 (0.62, 1.18)	3.38E-01
ASGR1	1.12 (0.89, 1.40)	3.39E-01
CD200	1.11 (0.89, 1.39)	3.41E-01
CPN2	0.98 (0.94, 1.02)	3.41E-01
ANKRD27	1.20 (0.82, 1.75)	3.43E-01
SPINT3	1.03 (0.97, 1.10)	3.43E-01
UBLCP1	1.08 (0.92, 1.27)	3.43E-01
GKN2	0.98 (0.93, 1.02)	3.44E-01
CPM	0.90 (0.74, 1.11)	3.45E-01
S100A2	1.10 (0.90, 1.34)	3.45E-01
AKR7A2	1.07 (0.93, 1.22)	3.46E-01
IL10RB	0.88 (0.67, 1.15)	3.49E-01
FAM177A1	1.13 (0.88, 1.45)	3.52E-01
PLA2G2A	1.01 (0.99, 1.04)	3.52E-01
TNFRSF17	0.93 (0.80, 1.08)	3.52E-01
MRVI1	1.09 (0.91, 1.30)	3.53E-01
ALDH3B1	1.07 (0.92, 1.25)	3.54E-01
LDHB	1.12 (0.88, 1.42)	3.56E-01
RECQL	1.10 (0.90, 1.35)	3.56E-01
COL6A1	1.17 (0.84, 1.64)	3.59E-01
UNC5C	0.94 (0.84, 1.07)	3.59E-01
SPON1	0.97 (0.91, 1.04)	3.60E-01
CTSZ	0.89 (0.69, 1.14)	3.61E-01
CLSTN2	0.96 (0.88, 1.05)	3.62E-01
SERPINB13	0.94 (0.82, 1.08)	3.62E-01
GNPTG	1.03 (0.96, 1.11)	3.63E-01
FAM213A	0.91 (0.73, 1.12)	3.64E-01
IGLL1	0.98 (0.93, 1.03)	3.64E-01

MANEA	0.97 (0.90, 1.04)	3.64E-01
AMIGO2	0.91 (0.73, 1.12)	3.65E-01
KDR	0.97 (0.92, 1.03)	3.65E-01
ARFIP1	1.04 (0.96, 1.13)	3.66E-01
FAM172A	1.17 (0.83, 1.66)	3.66E-01
ADAMTSL2	0.93 (0.80, 1.09)	3.67E-01
AOC1	1.01 (0.99, 1.03)	3.67E-01
HRASLS2	0.83 (0.55, 1.24)	3.67E-01
TF	0.94 (0.82, 1.08)	3.69E-01
FCGR2B	0.98 (0.95, 1.02)	3.70E-01
CLMP	1.05 (0.95, 1.15)	3.71E-01
CTSS	1.03 (0.97, 1.08)	3.71E-01
PTGFRN	0.99 (0.96, 1.01)	3.72E-01
ADAMTS5	0.98 (0.93, 1.03)	3.73E-01
PTGR1	1.11 (0.88, 1.40)	3.73E-01
GLRX	0.88 (0.66, 1.17)	3.74E-01
CCL14	0.98 (0.95, 1.02)	3.75E-01
PEAR1	0.96 (0.86, 1.06)	3.75E-01
SERPINA3	0.89 (0.70, 1.15)	3.76E-01
SERPINA5	1.04 (0.96, 1.12)	3.76E-01
NHEJ1	1.10 (0.89, 1.38)	3.78E-01
NID1	0.93 (0.80, 1.09)	3.79E-01
SERPINA11	1.04 (0.96, 1.13)	3.79E-01
CXCL6	0.99 (0.96, 1.02)	3.80E-01
FAM3D	1.03 (0.97, 1.09)	3.81E-01
CTSV	1.06 (0.93, 1.20)	3.82E-01
RMDN1	1.06 (0.93, 1.20)	3.82E-01
B3GALTL	1.04 (0.96, 1.12)	3.83E-01
PSMD9	1.07 (0.92, 1.25)	3.83E-01
APOBEC3G	1.07 (0.91, 1.26)	3.85E-01
CHST11	0.94 (0.83, 1.08)	3.86E-01
CPZ	0.89 (0.67, 1.17)	3.86E-01
PSMB4	0.98 (0.95, 1.02)	3.86E-01
GZMB	1.11 (0.88, 1.39)	3.87E-01
IGFBP1	1.11 (0.88, 1.41)	3.87E-01
NQO1	0.99 (0.96, 1.02)	3.88E-01
MAGI2	0.96 (0.87, 1.05)	3.89E-01
NTN1	0.97 (0.92, 1.03)	3.89E-01
EPHA1	0.99 (0.97, 1.01)	3.90E-01
RCN1	0.89 (0.69, 1.16)	3.90E-01
XRCC4	0.92 (0.77, 1.11)	3.90E-01
CMPK1	1.12 (0.87, 1.44)	3.91E-01
IGFALS	1.06 (0.93, 1.22)	3.91E-01
TIMD4	0.97 (0.89, 1.05)	3.92E-01
LRP4	0.98 (0.94, 1.03)	3.94E-01
CAMP	0.90 (0.70, 1.15)	3.95E-01
IL2RB	0.92 (0.77, 1.11)	3.95E-01
FOLR2	0.90 (0.70, 1.15)	3.97E-01
CCL11	0.93 (0.80, 1.09)	3.98E-01
BIN1	1.06 (0.92, 1.23)	3.99E-01
ENTPD6	0.93 (0.79, 1.10)	3.99E-01
PREP	0.95 (0.84, 1.07)	3.99E-01
ADH1C	0.94 (0.82, 1.08)	4.01E-01
CDH17	0.97 (0.90, 1.04)	4.01E-01

FH	1.06 (0.92, 1.23)	4.01E-01
HSPG2	1.03 (0.96, 1.12)	4.01E-01
S100A4	0.92 (0.76, 1.12)	4.04E-01
SERPINE1	0.87 (0.64, 1.20)	4.05E-01
AHSG	1.03 (0.97, 1.09)	4.06E-01
CTSB	0.99 (0.95, 1.02)	4.06E-01
LRP11	1.01 (0.98, 1.05)	4.08E-01
REG4	0.93 (0.78, 1.11)	4.09E-01
AFM	1.05 (0.94, 1.16)	4.10E-01
NFASC	0.95 (0.83, 1.08)	4.10E-01
TIMP2	1.13 (0.84, 1.51)	4.10E-01
TREM1	0.97 (0.91, 1.04)	4.10E-01
CR1	0.96 (0.86, 1.06)	4.11E-01
SUMO3	1.18 (0.80, 1.73)	4.11E-01
ST8SIA6	1.21 (0.77, 1.89)	4.13E-01
SCUBE1	1.09 (0.88, 1.35)	4.15E-01
MMP8	0.92 (0.76, 1.12)	4.16E-01
GP6	0.97 (0.89, 1.05)	4.17E-01
ST3GAL1	0.96 (0.87, 1.06)	4.18E-01
DKK1	1.13 (0.84, 1.52)	4.20E-01
S100A6	0.92 (0.75, 1.13)	4.20E-01
NT5DC3	0.96 (0.86, 1.07)	4.24E-01
CNTFR	0.96 (0.88, 1.06)	4.26E-01
PRDX1	1.09 (0.88, 1.35)	4.26E-01
ITIH4	1.06 (0.91, 1.24)	4.27E-01
RFK	0.87 (0.63, 1.22)	4.27E-01
CXCL5	1.07 (0.91, 1.26)	4.29E-01
GLO1	0.93 (0.79, 1.11)	4.29E-01
HS6ST1	0.95 (0.84, 1.08)	4.30E-01
SERPINH1	1.06 (0.91, 1.24)	4.31E-01
COMP	1.06 (0.92, 1.21)	4.34E-01
CXCL12	1.14 (0.82, 1.59)	4.34E-01
DHX58	1.14 (0.83, 1.57)	4.34E-01
HGFAC	1.03 (0.96, 1.11)	4.35E-01
S100A16	0.95 (0.84, 1.08)	4.35E-01
SELPLG	0.97 (0.90, 1.05)	4.36E-01
SHH	1.09 (0.88, 1.34)	4.36E-01
LGALS4	0.86 (0.60, 1.25)	4.37E-01
TNFRSF21	1.08 (0.90, 1.29)	4.37E-01
REG3G	0.98 (0.91, 1.04)	4.38E-01
PGM1	0.93 (0.77, 1.12)	4.39E-01
PPID	0.97 (0.89, 1.05)	4.40E-01
DTYMK	0.87 (0.62, 1.23)	4.44E-01
TSSC4	1.15 (0.80, 1.66)	4.44E-01
TNFSF15	0.86 (0.58, 1.27)	4.45E-01
TIMP3	0.99 (0.96, 1.02)	4.46E-01
PCBD1	0.95 (0.82, 1.09)	4.47E-01
APLP2	0.94 (0.80, 1.10)	4.50E-01
SFRP1	1.05 (0.93, 1.17)	4.50E-01
CRP	0.93 (0.77, 1.12)	4.52E-01
TNFRSF19	1.14 (0.81, 1.62)	4.52E-01
KLK3	0.86 (0.58, 1.27)	4.53E-01
SORD	1.04 (0.94, 1.14)	4.53E-01
CA13	1.02 (0.96, 1.09)	4.54E-01

CRISPLD2	1.03 (0.95, 1.12)	4.54E-01
CDKN1B	1.10 (0.86, 1.42)	4.55E-01
DECR2	1.03 (0.95, 1.12)	4.55E-01
RPS6KA1	1.07 (0.89, 1.29)	4.56E-01
CHGA	0.97 (0.89, 1.05)	4.58E-01
ENGASE	1.02 (0.97, 1.06)	4.61E-01
MXRA7	1.03 (0.96, 1.10)	4.61E-01
FCGR2A	0.99 (0.98, 1.01)	4.62E-01
FKBP1B	0.97 (0.88, 1.06)	4.63E-01
NELL1	1.01 (0.98, 1.06)	4.63E-01
PDXK	0.95 (0.82, 1.10)	4.63E-01
PROS1	0.87 (0.61, 1.25)	4.64E-01
MXRA8	1.08 (0.87, 1.34)	4.66E-01
PF4V1	0.98 (0.91, 1.04)	4.66E-01
TGFBR3	1.09 (0.86, 1.39)	4.66E-01
LEPR	1.01 (0.99, 1.03)	4.67E-01
SARS2	1.07 (0.89, 1.27)	4.67E-01
TGM3	1.02 (0.96, 1.09)	4.67E-01
THBS4	1.03 (0.95, 1.13)	4.67E-01
LCP1	0.94 (0.81, 1.10)	4.68E-01
MSMP	0.89 (0.65, 1.22)	4.68E-01
PCOLCE	0.96 (0.85, 1.08)	4.68E-01
USP8	0.89 (0.64, 1.23)	4.70E-01
MDGA1	1.01 (0.99, 1.02)	4.71E-01
SFRP4	1.04 (0.94, 1.15)	4.71E-01
CHST12	0.96 (0.85, 1.08)	4.72E-01
ITPKA	1.10 (0.84, 1.44)	4.72E-01
VEGFC	1.05 (0.91, 1.22)	4.73E-01
IVD	1.06 (0.90, 1.26)	4.74E-01
NTRK2	0.91 (0.69, 1.18)	4.74E-01
JAG1	1.11 (0.84, 1.45)	4.75E-01
TNFSF13B	0.91 (0.70, 1.18)	4.75E-01
IGF1R	1.12 (0.82, 1.52)	4.76E-01
LINGO1	0.89 (0.65, 1.22)	4.77E-01
PKDCC	0.88 (0.61, 1.26)	4.77E-01
MGP	0.97 (0.90, 1.05)	4.80E-01
SPHK1	1.13 (0.81, 1.57)	4.80E-01
IL17RA	1.01 (0.98, 1.05)	4.81E-01
ANG	1.01 (0.97, 1.06)	4.82E-01
DBI	1.10 (0.84, 1.46)	4.84E-01
SPOCK3	0.93 (0.77, 1.13)	4.84E-01
CD55	0.98 (0.93, 1.03)	4.85E-01
GCA	0.97 (0.90, 1.05)	4.85E-01
SERPINA10	0.99 (0.96, 1.02)	4.86E-01
CD300A	0.99 (0.96, 1.02)	4.87E-01
MYBPC1	1.09 (0.86, 1.37)	4.87E-01
UROS	1.04 (0.92, 1.18)	4.87E-01
VTA1	1.14 (0.79, 1.66)	4.87E-01
LGALS3BP	0.96 (0.85, 1.08)	4.88E-01
FCN1	0.98 (0.91, 1.05)	4.89E-01
MPPED2	1.05 (0.91, 1.23)	4.90E-01
SFTPD	1.01 (0.98, 1.05)	4.90E-01
BMP7	1.14 (0.78, 1.66)	4.92E-01
PDGFRA	1.08 (0.87, 1.32)	4.93E-01

REN	0.89 (0.64, 1.24)	4.93E-01
F2	0.94 (0.78, 1.13)	4.94E-01
GFRA2	0.98 (0.92, 1.04)	4.96E-01
MGAT1	1.15 (0.77, 1.71)	4.96E-01
PROK2	0.99 (0.95, 1.02)	4.96E-01
PLD3	1.15 (0.77, 1.70)	4.97E-01
SMOC1	1.04 (0.92, 1.19)	4.98E-01
PDCD1LG2	0.98 (0.92, 1.04)	4.99E-01
UAP1	0.88 (0.61, 1.27)	4.99E-01
CHI3L1	1.01 (0.99, 1.03)	5.01E-01
KRT1	0.91 (0.70, 1.19)	5.01E-01
KRT5	0.95 (0.83, 1.09)	5.01E-01
STARD5	0.98 (0.91, 1.05)	5.02E-01
NCAM1	0.97 (0.90, 1.05)	5.03E-01
PYGL	1.06 (0.90, 1.24)	5.05E-01
DPEP2	1.04 (0.92, 1.17)	5.07E-01
TESC	1.01 (0.98, 1.05)	5.07E-01
UBASH3B	1.06 (0.90, 1.24)	5.07E-01
ADIPOQ	1.03 (0.94, 1.13)	5.09E-01
CTRB2	1.01 (0.98, 1.04)	5.09E-01
GCLM	1.08 (0.85, 1.37)	5.09E-01
GLB1	1.14 (0.77, 1.67)	5.09E-01
MYZAP	0.91 (0.68, 1.21)	5.09E-01
LYPD3	1.06 (0.89, 1.25)	5.10E-01
SNX1	1.06 (0.89, 1.27)	5.10E-01
MATN2	1.06 (0.90, 1.24)	5.11E-01
ZYX	0.92 (0.71, 1.19)	5.11E-01
CD300C	1.03 (0.95, 1.11)	5.13E-01
APCS	0.98 (0.90, 1.05)	5.17E-01
IFNAR1	1.01 (0.97, 1.05)	5.17E-01
SERPINA9	1.04 (0.93, 1.16)	5.19E-01
KIAA1161	1.05 (0.90, 1.24)	5.20E-01
F13B	0.97 (0.87, 1.07)	5.21E-01
PKP2	1.08 (0.86, 1.35)	5.21E-01
TPST2	0.96 (0.85, 1.09)	5.21E-01
EGFR	1.05 (0.90, 1.22)	5.23E-01
CETN3	1.09 (0.83, 1.44)	5.26E-01
FCN2	1.01 (0.97, 1.06)	5.28E-01
TXNDC15	1.02 (0.96, 1.07)	5.28E-01
CAT	1.03 (0.93, 1.15)	5.31E-01
ID1I	1.15 (0.74, 1.78)	5.31E-01
FETUB	1.03 (0.94, 1.13)	5.32E-01
REG1A	0.98 (0.91, 1.05)	5.33E-01
SMOC2	1.02 (0.95, 1.10)	5.33E-01
C1QTNF5	0.97 (0.87, 1.07)	5.35E-01
NTF3	0.94 (0.77, 1.15)	5.35E-01
MAN1A2	0.97 (0.89, 1.07)	5.37E-01
TCL1A	1.03 (0.93, 1.14)	5.37E-01
CCT5	1.17 (0.71, 1.91)	5.40E-01
CD4	1.13 (0.77, 1.64)	5.40E-01
CFHR4	0.98 (0.94, 1.03)	5.42E-01
LY75	1.02 (0.96, 1.07)	5.42E-01
CYB5A	1.08 (0.84, 1.38)	5.43E-01
CCL5	0.97 (0.88, 1.07)	5.44E-01

ERAP1	0.92 (0.71, 1.19)	5.46E-01
XXYLT1	0.97 (0.88, 1.07)	5.46E-01
FJX1	1.03 (0.94, 1.12)	5.47E-01
BTNL8	0.95 (0.79, 1.13)	5.49E-01
CREG1	1.04 (0.92, 1.18)	5.49E-01
HDHD3	1.03 (0.93, 1.15)	5.50E-01
WFIKKN2	0.99 (0.95, 1.03)	5.50E-01
CD7	0.97 (0.87, 1.08)	5.51E-01
FLRT2	0.97 (0.88, 1.07)	5.51E-01
PLEKHA1	0.98 (0.92, 1.05)	5.51E-01
CNP	1.08 (0.83, 1.40)	5.52E-01
COLEC11	0.99 (0.97, 1.02)	5.53E-01
TRIM3	0.95 (0.78, 1.14)	5.53E-01
KIRREL2	1.07 (0.85, 1.36)	5.59E-01
ROBO1	1.06 (0.88, 1.28)	5.60E-01
DSG2	1.03 (0.94, 1.12)	5.62E-01
VWA2	1.05 (0.89, 1.23)	5.62E-01
PTPRS	0.94 (0.77, 1.15)	5.63E-01
SH3BGRL2	0.95 (0.79, 1.14)	5.63E-01
GALNT16	1.03 (0.92, 1.16)	5.64E-01
PF4	0.93 (0.73, 1.19)	5.64E-01
KLK14	0.96 (0.84, 1.10)	5.65E-01
CRISP2	1.01 (0.97, 1.05)	5.66E-01
CST5	1.01 (0.97, 1.07)	5.66E-01
HAPLN1	1.05 (0.88, 1.26)	5.66E-01
PLXNA1	0.98 (0.90, 1.06)	5.68E-01
RNASE3	1.02 (0.95, 1.09)	5.68E-01
EMILIN3	0.98 (0.90, 1.06)	5.69E-01
MCEMP1	1.12 (0.75, 1.68)	5.69E-01
TNFSF14	1.11 (0.78, 1.56)	5.69E-01
LRRTM4	1.12 (0.75, 1.68)	5.70E-01
CRYGD	0.95 (0.81, 1.12)	5.72E-01
GREM2	0.88 (0.58, 1.35)	5.72E-01
MGAT2	0.96 (0.83, 1.11)	5.73E-01
CCL21	0.96 (0.81, 1.12)	5.78E-01
TP53I3	1.01 (0.97, 1.06)	5.78E-01
YWHAB	1.03 (0.92, 1.16)	5.78E-01
RNASE6	0.91 (0.64, 1.28)	5.79E-01
EBI3	1.00 (0.98, 1.01)	5.82E-01
PPT1	0.96 (0.84, 1.10)	5.82E-01
PPCS	1.06 (0.87, 1.29)	5.83E-01
NAGPA	1.01 (0.96, 1.07)	5.84E-01
APOE	1.03 (0.93, 1.15)	5.85E-01
CTSD	1.03 (0.93, 1.14)	5.85E-01
PSG5	1.06 (0.87, 1.28)	5.85E-01
C3	1.07 (0.84, 1.36)	5.86E-01
MANSC4	0.99 (0.95, 1.03)	5.88E-01
SPINK4	1.02 (0.94, 1.12)	5.89E-01
SIGLEC9	1.00 (0.98, 1.01)	5.90E-01
METTL24	1.06 (0.87, 1.29)	5.91E-01
IFNGR1	1.08 (0.82, 1.42)	5.92E-01
EFNB2	1.09 (0.79, 1.52)	5.93E-01
THG1L	0.99 (0.93, 1.04)	5.93E-01
IGDCC4	1.03 (0.94, 1.12)	5.94E-01

CBLN1	0.98 (0.90, 1.06)	5.95E-01
FLT4	1.04 (0.90, 1.20)	5.95E-01
IGFBP5	1.11 (0.76, 1.61)	5.95E-01
PNLIPRP2	1.01 (0.99, 1.02)	5.95E-01
SECTM1	1.03 (0.93, 1.14)	5.95E-01
CPNE1	0.99 (0.96, 1.02)	5.97E-01
CSGALNACT2	0.95 (0.80, 1.14)	5.98E-01
PCNP	1.06 (0.84, 1.34)	5.99E-01
SEPW1	1.05 (0.88, 1.24)	5.99E-01
TMEM132A	0.98 (0.92, 1.05)	5.99E-01
ATXN3	1.02 (0.94, 1.11)	6.00E-01
NT5C3A	1.08 (0.82, 1.41)	6.01E-01
ECHS1	1.10 (0.76, 1.60)	6.02E-01
TMEM132D	0.98 (0.91, 1.06)	6.02E-01
MTRF1L	0.97 (0.85, 1.10)	6.03E-01
ELANE	1.02 (0.95, 1.08)	6.05E-01
CA3	0.97 (0.85, 1.10)	6.06E-01
TNFRSF11B	0.94 (0.76, 1.17)	6.06E-01
SIAE	0.95 (0.78, 1.16)	6.07E-01
GHR	0.97 (0.87, 1.08)	6.09E-01
PSAPL1	0.98 (0.93, 1.04)	6.09E-01
SULT1A3	0.96 (0.80, 1.14)	6.09E-01
CHST15	1.04 (0.89, 1.23)	6.10E-01
CRAT	0.94 (0.75, 1.19)	6.10E-01
IL5RA	0.99 (0.94, 1.04)	6.10E-01
SELL	0.98 (0.91, 1.06)	6.10E-01
COL10A1	0.98 (0.89, 1.07)	6.11E-01
PLXNA4	0.95 (0.76, 1.17)	6.11E-01
SAA4	1.01 (0.97, 1.05)	6.12E-01
GAS1	1.07 (0.82, 1.40)	6.13E-01
SDSL	1.02 (0.95, 1.08)	6.13E-01
ASPN	0.99 (0.94, 1.04)	6.14E-01
LOXL3	0.95 (0.77, 1.17)	6.14E-01
SVEP1	1.02 (0.95, 1.10)	6.14E-01
KLK7	1.02 (0.96, 1.08)	6.15E-01
HDHD2	0.95 (0.76, 1.17)	6.16E-01
EPHB4	1.04 (0.88, 1.23)	6.17E-01
LARGE	0.96 (0.80, 1.14)	6.17E-01
TEK	0.97 (0.85, 1.10)	6.18E-01
GM2A	1.02 (0.94, 1.10)	6.20E-01
SLITRK5	1.04 (0.89, 1.21)	6.20E-01
TXNL4B	1.04 (0.90, 1.20)	6.23E-01
FHIT	0.92 (0.68, 1.27)	6.24E-01
NOTCH1	1.06 (0.85, 1.32)	6.24E-01
CRYBB1	0.97 (0.87, 1.08)	6.25E-01
NUDT5	1.07 (0.82, 1.39)	6.25E-01
EIF1AD	1.02 (0.93, 1.13)	6.26E-01
PILRA	1.00 (0.98, 1.01)	6.27E-01
C7	1.01 (0.98, 1.03)	6.28E-01
FER	0.94 (0.74, 1.20)	6.28E-01
NDRG3	1.08 (0.79, 1.48)	6.29E-01
IFI16	1.06 (0.83, 1.35)	6.30E-01
SOD3	0.98 (0.91, 1.06)	6.30E-01
CD8A	0.98 (0.92, 1.05)	6.31E-01

KYNU	0.99 (0.94, 1.04)	6.31E-01
PNKP	0.96 (0.81, 1.14)	6.32E-01
SPP1	0.95 (0.77, 1.17)	6.32E-01
IL20RA	0.92 (0.64, 1.31)	6.33E-01
LEAP2	1.02 (0.95, 1.08)	6.33E-01
NQO2	0.98 (0.90, 1.06)	6.33E-01
TIGIT	0.94 (0.72, 1.22)	6.33E-01
POLI	0.94 (0.74, 1.20)	6.36E-01
ADH5	0.97 (0.83, 1.12)	6.38E-01
APOA4	0.94 (0.71, 1.24)	6.38E-01
TNFAIP8	1.03 (0.91, 1.16)	6.38E-01
NT5E	0.98 (0.89, 1.07)	6.39E-01
NTM	0.99 (0.94, 1.04)	6.41E-01
CBL	1.06 (0.83, 1.36)	6.42E-01
CCL7	1.01 (0.97, 1.05)	6.42E-01
CCL8	0.99 (0.95, 1.03)	6.42E-01
SIGLEC1	1.10 (0.74, 1.62)	6.42E-01
KCNAB2	0.94 (0.72, 1.23)	6.43E-01
CTSO	0.97 (0.84, 1.11)	6.44E-01
UCMA	0.98 (0.90, 1.07)	6.44E-01
HIBCH	0.99 (0.93, 1.05)	6.46E-01
SEMA7A	0.94 (0.73, 1.22)	6.46E-01
PENK	1.01 (0.97, 1.05)	6.47E-01
NPL	1.02 (0.93, 1.13)	6.49E-01
ACP5	1.02 (0.93, 1.11)	6.50E-01
LUM	1.04 (0.88, 1.22)	6.50E-01
LILRA4	1.03 (0.90, 1.17)	6.51E-01
SPINK1	1.04 (0.87, 1.24)	6.53E-01
SYK	0.95 (0.76, 1.19)	6.53E-01
ARRB1	1.06 (0.81, 1.40)	6.55E-01
PI3	1.02 (0.95, 1.09)	6.55E-01
TALDO1	0.93 (0.68, 1.28)	6.56E-01
DNAJB14	0.93 (0.66, 1.30)	6.58E-01
CD33	1.00 (0.99, 1.02)	6.60E-01
PGLYRP1	1.03 (0.92, 1.14)	6.60E-01
CILP2	1.08 (0.77, 1.50)	6.62E-01
GGH	0.99 (0.94, 1.04)	6.63E-01
APMAP	1.05 (0.84, 1.30)	6.64E-01
BRSK2	0.97 (0.86, 1.10)	6.64E-01
CNTN5	1.03 (0.89, 1.20)	6.64E-01
PCDH10	0.96 (0.81, 1.14)	6.65E-01
RNPEP	0.98 (0.92, 1.06)	6.66E-01
GPNMB	1.02 (0.93, 1.11)	6.68E-01
ADAMTS13	1.01 (0.97, 1.05)	6.69E-01
PDCD5	0.98 (0.88, 1.08)	6.69E-01
RTP4	1.01 (0.96, 1.07)	6.69E-01
TMEM132C	1.02 (0.95, 1.09)	6.70E-01
WISP1	0.98 (0.91, 1.06)	6.72E-01
ADH6	0.97 (0.84, 1.12)	6.73E-01
PTGDS	0.97 (0.85, 1.11)	6.74E-01
DARS	0.96 (0.78, 1.17)	6.75E-01
DCLK1	1.02 (0.93, 1.13)	6.76E-01
NPTXR	0.99 (0.95, 1.03)	6.78E-01
RELT	1.08 (0.76, 1.52)	6.78E-01

RGS18	0.94 (0.69, 1.27)	6.78E-01
LILRB1	1.00 (0.98, 1.03)	6.80E-01
RIPK2	1.08 (0.76, 1.53)	6.80E-01
SHANK3	0.94 (0.68, 1.28)	6.80E-01
FGFR3	1.03 (0.91, 1.15)	6.81E-01
HTATIP2	0.99 (0.96, 1.03)	6.81E-01
CMBL	1.02 (0.92, 1.14)	6.82E-01
LILRB3	0.99 (0.97, 1.02)	6.82E-01
HDGFRP3	1.04 (0.86, 1.27)	6.83E-01
MST1	1.00 (0.99, 1.02)	6.83E-01
PDIA5	1.01 (0.98, 1.04)	6.83E-01
NCAM2	0.99 (0.95, 1.04)	6.85E-01
PDLIM1	1.05 (0.81, 1.36)	6.87E-01
CRABP2	1.04 (0.86, 1.25)	6.88E-01
GSN	0.97 (0.83, 1.13)	6.88E-01
REG1B	0.98 (0.91, 1.07)	6.88E-01
SIGLEC5	0.99 (0.92, 1.06)	6.88E-01
STAMBPL1	1.05 (0.84, 1.31)	6.89E-01
GMPR2	0.99 (0.92, 1.06)	6.91E-01
HEBP1	1.02 (0.92, 1.13)	6.91E-01
ULK3	0.96 (0.77, 1.19)	6.94E-01
ACAT2	0.99 (0.92, 1.06)	6.95E-01
COL1A1	0.93 (0.64, 1.35)	6.96E-01
GXYLT1	0.96 (0.80, 1.16)	6.97E-01
GRAMD1C	1.02 (0.91, 1.14)	6.98E-01
HADH	0.94 (0.70, 1.27)	6.98E-01
MFAP4	0.98 (0.89, 1.08)	6.99E-01
TFF3	0.93 (0.63, 1.37)	7.01E-01
HEXB	1.02 (0.94, 1.10)	7.03E-01
CHIT1	0.99 (0.95, 1.03)	7.04E-01
FCER2	0.99 (0.94, 1.04)	7.05E-01
ALPPL2	0.93 (0.63, 1.36)	7.06E-01
CRADD	0.94 (0.67, 1.32)	7.06E-01
IL1RAP	1.00 (0.98, 1.02)	7.06E-01
NNMT	0.93 (0.66, 1.33)	7.06E-01
HDGF	0.96 (0.76, 1.21)	7.08E-01
DCI	0.97 (0.85, 1.12)	7.10E-01
SPON2	0.96 (0.79, 1.17)	7.10E-01
AP1G2	1.04 (0.83, 1.32)	7.13E-01
CPQ	1.03 (0.86, 1.24)	7.16E-01
ACAN	1.03 (0.88, 1.21)	7.17E-01
KRT20	0.94 (0.67, 1.32)	7.17E-01
ART3	1.04 (0.83, 1.31)	7.18E-01
CROT	0.99 (0.94, 1.05)	7.18E-01
DPT	1.01 (0.96, 1.07)	7.18E-01
FBP2	1.03 (0.88, 1.21)	7.19E-01
IGF2R	1.01 (0.96, 1.06)	7.19E-01
IL27RA	1.00 (0.97, 1.02)	7.20E-01
PROC	1.02 (0.90, 1.17)	7.20E-01
PLA2G12B	0.96 (0.76, 1.21)	7.21E-01
TTL	0.92 (0.59, 1.44)	7.21E-01
C1QC	1.01 (0.97, 1.05)	7.24E-01
NTRK3	1.02 (0.91, 1.15)	7.25E-01
GNMT	1.02 (0.93, 1.10)	7.26E-01

LYVE1	1.01 (0.93, 1.10)	7.26E-01
HPGDS	0.99 (0.94, 1.04)	7.27E-01
CRLF1	0.99 (0.91, 1.07)	7.28E-01
NRP1	1.01 (0.95, 1.08)	7.28E-01
GSTA1	1.01 (0.95, 1.07)	7.29E-01
PPP1R1A	1.06 (0.75, 1.51)	7.29E-01
SRI	1.03 (0.87, 1.22)	7.29E-01
CXCL16	0.98 (0.86, 1.11)	7.30E-01
CD46	1.01 (0.94, 1.10)	7.31E-01
PRSS2	1.02 (0.93, 1.12)	7.31E-01
SF3B4	0.92 (0.57, 1.48)	7.32E-01
AIF1L	1.01 (0.97, 1.05)	7.34E-01
COL15A1	0.98 (0.85, 1.12)	7.34E-01
S100A12	1.02 (0.92, 1.12)	7.34E-01
REG3A	1.04 (0.82, 1.33)	7.35E-01
C8G	0.99 (0.95, 1.03)	7.36E-01
CEL	0.95 (0.73, 1.25)	7.36E-01
FAM20B	0.96 (0.78, 1.19)	7.36E-01
JUND	0.95 (0.69, 1.30)	7.36E-01
ST6GALNAC6	1.06 (0.77, 1.45)	7.36E-01
UGDH	1.01 (0.95, 1.08)	7.36E-01
RARRES1	1.01 (0.94, 1.10)	7.39E-01
STAT6	1.04 (0.84, 1.28)	7.39E-01
WWOX	1.05 (0.80, 1.37)	7.41E-01
ACADSB	1.03 (0.84, 1.27)	7.42E-01
ACAP2	0.94 (0.66, 1.35)	7.43E-01
GSR	0.97 (0.78, 1.19)	7.44E-01
IGFBP3	1.02 (0.89, 1.17)	7.44E-01
KNG1	0.99 (0.92, 1.06)	7.44E-01
PDCD6	1.07 (0.72, 1.57)	7.44E-01
SIGLEC7	0.99 (0.91, 1.07)	7.47E-01
IL15RA	1.01 (0.96, 1.06)	7.49E-01
SNX8	1.03 (0.85, 1.26)	7.50E-01
CCM2	0.95 (0.69, 1.31)	7.52E-01
DNAJB4	0.98 (0.87, 1.11)	7.52E-01
SCARF1	0.99 (0.95, 1.04)	7.52E-01
SLAMF6	0.98 (0.88, 1.10)	7.52E-01
FAM3B	1.05 (0.77, 1.44)	7.53E-01
STX8	1.05 (0.78, 1.42)	7.53E-01
NRP2	1.02 (0.89, 1.17)	7.55E-01
STX7	1.02 (0.88, 1.20)	7.60E-01
ESD	1.02 (0.92, 1.12)	7.62E-01
TNFAIP3	0.98 (0.86, 1.12)	7.64E-01
LCN1	1.05 (0.77, 1.44)	7.65E-01
RGMA	1.04 (0.79, 1.38)	7.66E-01
SCO2	1.03 (0.85, 1.24)	7.66E-01
NT5C3L	1.00 (0.96, 1.03)	7.70E-01
TRIL	0.97 (0.78, 1.20)	7.70E-01
VIM	1.04 (0.81, 1.32)	7.70E-01
BTC	0.98 (0.86, 1.11)	7.74E-01
ENPP2	0.97 (0.82, 1.16)	7.75E-01
GPX7	0.99 (0.96, 1.03)	7.75E-01
TFF1	1.01 (0.95, 1.07)	7.75E-01
PLG	0.99 (0.92, 1.07)	7.76E-01

S100A7	1.00 (0.98, 1.03)	7.76E-01
COLEC12	0.98 (0.85, 1.13)	7.77E-01
F5	1.01 (0.93, 1.09)	7.78E-01
MFAP2	1.02 (0.88, 1.19)	7.78E-01
RETN	1.01 (0.94, 1.09)	7.78E-01
CCDC80	0.95 (0.65, 1.38)	7.79E-01
NUDT2	1.01 (0.94, 1.09)	7.81E-01
PRCP	0.98 (0.87, 1.11)	7.81E-01
B4GALT7	1.06 (0.70, 1.60)	7.82E-01
AP2A2	1.05 (0.76, 1.44)	7.83E-01
CHI3L2	0.96 (0.69, 1.32)	7.83E-01
NTNG1	1.00 (0.96, 1.03)	7.84E-01
SEMA3C	1.03 (0.86, 1.23)	7.84E-01
ANXA2	1.01 (0.97, 1.04)	7.85E-01
CCL15	1.06 (0.71, 1.58)	7.86E-01
NMT2	0.96 (0.73, 1.28)	7.87E-01
B4GALT6	1.01 (0.96, 1.05)	7.88E-01
RTN4IP1	1.04 (0.76, 1.43)	7.89E-01
PCSK2	1.03 (0.82, 1.30)	7.90E-01
FGR	0.98 (0.83, 1.15)	7.91E-01
CD14	0.99 (0.91, 1.08)	7.92E-01
PKLR	0.95 (0.64, 1.41)	7.92E-01
LGALS2	0.99 (0.90, 1.08)	7.93E-01
PCSK7	1.00 (0.98, 1.03)	7.93E-01
CD200R1	0.98 (0.83, 1.16)	7.95E-01
FGL1	1.01 (0.97, 1.04)	7.95E-01
PGLYRP2	0.99 (0.93, 1.06)	7.96E-01
TINAGL1	0.97 (0.76, 1.23)	7.97E-01
TGM4	1.05 (0.73, 1.52)	7.98E-01
BMPER	1.03 (0.83, 1.27)	7.99E-01
ADAMTSL1	0.99 (0.92, 1.07)	8.00E-01
FRZB	0.98 (0.85, 1.14)	8.01E-01
PLCG1	1.03 (0.79, 1.35)	8.01E-01
TMEM132B	0.98 (0.87, 1.12)	8.01E-01
EFNA3	0.93 (0.55, 1.60)	8.02E-01
GNPDA1	1.03 (0.80, 1.34)	8.02E-01
MET	0.98 (0.85, 1.13)	8.03E-01
CFHR1	0.98 (0.83, 1.15)	8.04E-01
CNPY3	0.98 (0.84, 1.15)	8.04E-01
ELMO1	1.04 (0.74, 1.47)	8.05E-01
CD209	1.01 (0.95, 1.07)	8.08E-01
MAPK8	1.04 (0.75, 1.44)	8.08E-01
UST	1.06 (0.65, 1.72)	8.08E-01
LGALS3	1.01 (0.95, 1.07)	8.09E-01
PPA2	0.97 (0.78, 1.21)	8.09E-01
DNAJB6	1.05 (0.72, 1.53)	8.11E-01
FIS1	1.02 (0.89, 1.17)	8.13E-01
ITIH2	1.00 (0.96, 1.03)	8.13E-01
RNASE4	0.99 (0.93, 1.06)	8.14E-01
LYZ	1.00 (0.96, 1.03)	8.15E-01
PCOLCE2	0.99 (0.94, 1.05)	8.15E-01
RRM1	1.04 (0.76, 1.41)	8.15E-01
DDOST	0.96 (0.65, 1.40)	8.16E-01
KLK8	1.03 (0.78, 1.38)	8.16E-01

KLRB1	0.99 (0.91, 1.07)	8.17E-01
SERPINE2	0.99 (0.95, 1.04)	8.17E-01
BTD	0.99 (0.88, 1.10)	8.19E-01
NPTX1	1.01 (0.94, 1.08)	8.19E-01
ALDH2	1.03 (0.81, 1.31)	8.20E-01
GLCE	1.00 (0.96, 1.03)	8.20E-01
QPCT	0.96 (0.66, 1.38)	8.20E-01
GSS	0.99 (0.91, 1.08)	8.21E-01
STIM1	1.02 (0.85, 1.24)	8.21E-01
CHKB	1.03 (0.81, 1.31)	8.22E-01
GP1BA	0.98 (0.86, 1.13)	8.22E-01
CDNF	1.01 (0.94, 1.08)	8.23E-01
IL1R2	0.99 (0.95, 1.04)	8.23E-01
ENPP5	1.00 (0.97, 1.02)	8.24E-01
ANXA4	0.99 (0.92, 1.07)	8.27E-01
COL6A3	0.97 (0.73, 1.29)	8.28E-01
BOC	1.01 (0.93, 1.09)	8.29E-01
HMOX1	1.05 (0.68, 1.61)	8.31E-01
FCRL4	1.00 (0.98, 1.02)	8.32E-01
PSG7	0.98 (0.78, 1.22)	8.32E-01
NPDC1	0.96 (0.67, 1.38)	8.33E-01
SORCS1	0.97 (0.71, 1.32)	8.33E-01
LAG3	0.98 (0.84, 1.15)	8.35E-01
SERPINA4	1.01 (0.96, 1.05)	8.36E-01
ANXA1	1.01 (0.88, 1.17)	8.38E-01
UNC5B	0.98 (0.85, 1.14)	8.38E-01
CALCB	1.01 (0.93, 1.10)	8.40E-01
OLFML3	1.02 (0.82, 1.28)	8.40E-01
PCSK1	1.00 (0.97, 1.02)	8.40E-01
PTPN9	0.97 (0.73, 1.30)	8.40E-01
DCTD	1.02 (0.81, 1.30)	8.43E-01
ASPH	1.02 (0.82, 1.27)	8.44E-01
FCRLB	0.99 (0.93, 1.07)	8.46E-01
CCL4L1	0.98 (0.80, 1.21)	8.47E-01
LPO	1.01 (0.94, 1.08)	8.48E-01
LTF	1.02 (0.86, 1.21)	8.48E-01
ALAD	0.99 (0.90, 1.10)	8.49E-01
MMP1	1.00 (0.95, 1.04)	8.50E-01
CBLN4	0.98 (0.81, 1.19)	8.51E-01
CD5L	1.01 (0.94, 1.07)	8.51E-01
PHPT1	1.01 (0.91, 1.12)	8.54E-01
OGN	1.00 (0.95, 1.05)	8.56E-01
CRTAC1	1.01 (0.95, 1.06)	8.57E-01
PDGFD	1.01 (0.95, 1.06)	8.57E-01
CNTN4	0.99 (0.94, 1.06)	8.58E-01
CA11	1.01 (0.89, 1.14)	8.61E-01
TBCE	1.02 (0.84, 1.23)	8.62E-01
ABO	1.01 (0.94, 1.08)	8.64E-01
NMRAL1	1.00 (0.96, 1.03)	8.64E-01
ENG	0.99 (0.87, 1.13)	8.65E-01
ZG16B	1.01 (0.90, 1.13)	8.65E-01
APOL1	0.99 (0.94, 1.06)	8.66E-01
FAIM3	1.02 (0.84, 1.23)	8.66E-01
PLXND1	1.01 (0.86, 1.20)	8.66E-01

SERPING1	1.00 (0.97, 1.03)	8.66E-01
CPB2	1.00 (0.96, 1.04)	8.70E-01
FN1	1.01 (0.90, 1.14)	8.70E-01
TXNDC5	0.99 (0.84, 1.16)	8.70E-01
ACP6	1.00 (0.96, 1.03)	8.71E-01
ARSB	0.99 (0.86, 1.14)	8.73E-01
FCRL1	1.00 (0.95, 1.05)	8.75E-01
HTN3	1.03 (0.74, 1.42)	8.75E-01
SMAP1	1.01 (0.94, 1.07)	8.75E-01
PLCG2	1.01 (0.87, 1.18)	8.76E-01
SEMA6A	1.02 (0.82, 1.26)	8.76E-01
ROR1	0.99 (0.92, 1.07)	8.80E-01
PLA2G7	0.99 (0.83, 1.18)	8.81E-01
EPHA10	1.02 (0.78, 1.33)	8.82E-01
LRRC32	0.98 (0.71, 1.35)	8.83E-01
SIGLEC14	1.00 (0.96, 1.04)	8.83E-01
ATP1B2	1.01 (0.90, 1.14)	8.84E-01
NMB	0.99 (0.86, 1.14)	8.84E-01
RFESD	1.03 (0.72, 1.45)	8.88E-01
COL3A1	0.98 (0.73, 1.32)	8.89E-01
DNER	1.01 (0.91, 1.11)	8.89E-01
CEACAM8	1.02 (0.77, 1.35)	8.90E-01
IL1R1	0.99 (0.89, 1.10)	8.90E-01
SWAP70	1.00 (0.96, 1.05)	8.90E-01
CA10	1.01 (0.85, 1.20)	8.91E-01
CR2	1.01 (0.89, 1.14)	8.91E-01
MAPRE2	1.01 (0.89, 1.14)	8.91E-01
MATN4	1.01 (0.92, 1.10)	8.91E-01
APOC1	0.98 (0.69, 1.38)	8.92E-01
LIFR	1.00 (0.94, 1.08)	8.92E-01
SAR1A	1.01 (0.89, 1.14)	8.92E-01
PVRL4	0.97 (0.66, 1.43)	8.93E-01
ASF1A	1.02 (0.73, 1.43)	8.94E-01
WFDC1	1.00 (0.95, 1.06)	8.95E-01
TLL1	1.02 (0.74, 1.41)	8.96E-01
OLFM1	0.98 (0.70, 1.36)	8.98E-01
PTN	1.01 (0.91, 1.11)	8.98E-01
CADM1	1.01 (0.87, 1.17)	9.00E-01
GLTPD2	0.99 (0.91, 1.08)	9.01E-01
TGFBI	1.00 (0.96, 1.04)	9.01E-01
DCTPP1	1.02 (0.71, 1.49)	9.02E-01
SERPINB1	1.02 (0.80, 1.29)	9.03E-01
LRP8	1.02 (0.80, 1.29)	9.04E-01
C5	0.99 (0.87, 1.14)	9.05E-01
CCL17	0.99 (0.90, 1.10)	9.06E-01
TAC1	0.99 (0.88, 1.12)	9.06E-01
TMEM190	1.00 (0.98, 1.02)	9.07E-01
COL6A2	1.01 (0.85, 1.20)	9.08E-01
BPIFA2	0.99 (0.78, 1.25)	9.09E-01
PRSS22	1.01 (0.92, 1.09)	9.09E-01
C1QTNF3	1.01 (0.87, 1.17)	9.14E-01
MTHFSD	1.00 (0.94, 1.06)	9.14E-01
LRPAP1	1.01 (0.90, 1.12)	9.15E-01
ST3GAL6	0.99 (0.78, 1.24)	9.15E-01

GZMK	0.99 (0.87, 1.13)	9.16E-01
IL18RAP	0.99 (0.76, 1.28)	9.17E-01
PCSK9	1.00 (0.93, 1.07)	9.19E-01
RBP4	1.01 (0.79, 1.30)	9.21E-01
GRAP2	0.97 (0.54, 1.76)	9.23E-01
HYAL1	0.99 (0.85, 1.17)	9.27E-01
RAD23B	1.02 (0.69, 1.51)	9.27E-01
CTRB1	1.00 (0.94, 1.06)	9.28E-01
KLB	0.99 (0.86, 1.15)	9.29E-01
NAGLU	1.00 (0.97, 1.03)	9.30E-01
DYNLL2	0.99 (0.69, 1.40)	9.34E-01
RNASE2	1.01 (0.88, 1.15)	9.34E-01
HNRNPAB	0.99 (0.76, 1.28)	9.35E-01
LSAMP	1.01 (0.89, 1.13)	9.35E-01
APOC3	0.99 (0.87, 1.14)	9.36E-01
CCDC126	1.00 (0.93, 1.08)	9.36E-01
KLK11	1.00 (0.98, 1.02)	9.39E-01
KPNA6	0.99 (0.74, 1.31)	9.39E-01
MANF	0.99 (0.74, 1.32)	9.40E-01
ANGPTL1	0.99 (0.68, 1.44)	9.42E-01
EPHB2	0.99 (0.72, 1.37)	9.44E-01
PPIL1	1.00 (0.96, 1.04)	9.44E-01
SEZ6L	0.99 (0.81, 1.22)	9.44E-01
BST1	1.00 (0.98, 1.02)	9.45E-01
CACNA2D3	1.00 (0.90, 1.11)	9.45E-01
ICAM5	1.00 (0.97, 1.03)	9.47E-01
ACE	1.00 (0.97, 1.03)	9.49E-01
VWC2	1.00 (0.89, 1.12)	9.49E-01
CCL25	1.00 (0.97, 1.03)	9.50E-01
B3GALT6	0.99 (0.69, 1.42)	9.51E-01
LDLRAP1	1.01 (0.81, 1.25)	9.51E-01
IL22	1.01 (0.66, 1.55)	9.52E-01
MAX	1.00 (0.89, 1.11)	9.52E-01
TFPI2	0.99 (0.63, 1.53)	9.52E-01
FUT10	1.00 (0.95, 1.05)	9.54E-01
RAB1A	0.99 (0.71, 1.39)	9.54E-01
SPINT1	1.00 (0.87, 1.16)	9.54E-01
FLRT3	0.99 (0.80, 1.24)	9.55E-01
WFDC2	1.01 (0.76, 1.34)	9.55E-01
FMOD	1.00 (0.87, 1.16)	9.56E-01
RTN4R	1.00 (0.90, 1.11)	9.57E-01
APOA5	1.00 (0.97, 1.03)	9.58E-01
TMEM9	1.01 (0.77, 1.32)	9.58E-01
ACADVL	1.01 (0.69, 1.48)	9.59E-01
HAVCR2	1.00 (0.96, 1.03)	9.59E-01
PGLYRP3	1.01 (0.66, 1.55)	9.59E-01
SHMT1	1.00 (0.97, 1.03)	9.59E-01
STAT3	1.00 (0.88, 1.14)	9.60E-01
ALDH1A1	1.01 (0.81, 1.24)	9.63E-01
PDE5A	1.00 (0.86, 1.17)	9.66E-01
CHST9	1.00 (0.93, 1.08)	9.68E-01
SBDS	1.00 (0.82, 1.21)	9.74E-01
B3GNT2	1.00 (0.89, 1.13)	9.75E-01
SIGLEC12	1.00 (0.98, 1.02)	9.75E-01

CCL22	1.00 (0.88, 1.15)	9.76E-01
ROR2	1.00 (0.88, 1.14)	9.76E-01
IGFBP2	1.01 (0.72, 1.41)	9.77E-01
ASRGL1	1.00 (0.90, 1.11)	9.78E-01
DTD2	1.00 (0.84, 1.19)	9.78E-01
GFER	1.00 (0.74, 1.37)	9.78E-01
MTHFD2	0.99 (0.59, 1.67)	9.81E-01
ANGPT2	1.00 (0.86, 1.15)	9.83E-01
DNAJB1	1.00 (0.68, 1.49)	9.84E-01
PRSS57	1.00 (0.96, 1.04)	9.85E-01
WISP2	1.00 (0.92, 1.09)	9.85E-01
NPNT	1.00 (0.90, 1.12)	9.86E-01
ENTHD2	1.00 (0.79, 1.27)	9.88E-01
VWA1	1.00 (0.74, 1.36)	9.91E-01
FGF23	1.00 (0.66, 1.51)	9.92E-01
MCF2L	1.00 (0.92, 1.09)	9.92E-01
SIRPG	1.00 (0.88, 1.14)	9.92E-01
HSPA13	1.00 (0.83, 1.21)	9.93E-01
SERPINA12	1.00 (0.93, 1.08)	9.96E-01
FSTL4	1.00 (0.76, 1.32)	1.00E+00
GPC1	1.00 (0.96, 1.04)	1.00E+00
IL6ST	1.00 (0.92, 1.08)	1.00E+00
LY9	1.00 (0.94, 1.06)	1.00E+00
NPPA	1.00 (0.76, 1.31)	1.00E+00
POFUT1	1.00 (0.91, 1.09)	1.00E+00
