

**Supplementary Table 1. Allele frequencies of 161 SNPs examined**

Chr	Associated Gene	SNP	Position	EArep GWAS minor allele	EArep GWAS MAF	ASW minor allele	ASW MAF	Sample minor allele	Sample MAF
1	<i>ANGPTL1</i>	rs4650994	178515312	G	0.49	A	0.22	A	0.18
1	<i>ANGPTL3</i>	rs2131925	63025942	G	0.34	G	0.34	T	0.35
1	<i>ANXA9</i>	rs267733	150958836	G	0.16	G	0.09	G	0.06
1	<i>ASAP3</i>	rs1077514	23766233	C	0.15	T	0.48	C	0.50
1	<i>EVI5</i>	rs7515577	93009438	C	0.23	C	0.49	C	0.07
1	<i>GALNT2</i>	rs4846914	230295691	G	0.41	A	0.20	A	0.13
1	<i>HDGF-PMVK</i>	rs12145743	156700651	G	0.34	G	0.05	G	0.06
1	<i>IRF2BP2</i>	rs514230	234858597	A	0.48	A	0.22	A	0.24
1	<i>LDLRAP1</i>	rs12027135	25775733	A	0.46	T	0.49	T	0.47
1	<i>MARCI</i>	rs2642442	220973563	C	0.33	C	0.25	C	0.22
1	<i>PABPC4</i>	rs4660293	40028180	G	0.24	G	0.07	G	0.05
1	<i>PCSK9</i>	rs2479409	55504650	G	.032	G	0.32	G	0.25
1	<i>PIGV-NROB2</i>	rs12748152	27138393	T	0.09	T	0.00	T	0.02
1	<i>SORT1</i>	rs629301	109818306	G	0.24	G	0.42	G	0.36
1	<i>ZNF648</i>	rs1689800	182168885	G	0.35	G	0.28	G	0.34
2	<i>ABCB11</i>	rs2287623	169830155	G	0.41	G	0.41	G	0.42
2	<i>ABCG8</i>	rs4299376	44072576	G	0.31	G	0.14	G	0.15
2	<i>APOB</i>	rs1042034	21225281	C	N/A	C	0.16	C	0.16
2	<i>APOB</i>	rs1367117	21263900	A	0.32	A	0.17	A	0.10
2	<i>COBLL1</i>	rs10195252	165513091	C	0.41	T	0.25	T	0.24
2	<i>COBLL1</i>	rs12328675	165540800	C	N/A	C	0.20	C	0.16
2	<i>CPS1</i>	rs1047891	211540507	A	0.33	A	0.39	A	0.35
2	<i>EHBPI</i>	rs2710642	63149557	G	0.35	G	0.19	G	0.14
2	<i>FAM117B</i>	rs11694172	203532304	G	0.25	G	0.06	G	0.06
2	<i>FNI</i>	rs1250229	216304384	T	0.27	T	0.17	T	0.19
2	<i>GCKR</i>	rs1260326	27730940	T	0.39	T	0.10	T	0.15
2	<i>INSIG2</i>	rs10490626	118835841	A	0.08	A	0.00	A	0.01
2	<i>IRS1</i>	rs2972146	227100698	G	0.37	G	0.16	G	0.17
2	<i>LOC105373585</i>	rs2030746	121309488	T	0.4	T	0.41	C	0.45
2	<i>RAB3GAP1</i>	rs7570971	135837906	A	0.35	C	0.16	C	0.13
2	<i>UGT1A1</i>	rs11563251	234679384	T	0.12	T	0.3	T	0.37
3	<i>ACAD11</i>	rs17404153	132163200	T	0.14	T	0.04	T	0.03
3	<i>ATG7</i>	rs2606736	11400249	C	0.39	T	0.33	T	0.41
3	<i>CMTM6</i>	rs7640978	32533010	T	0.09	T	0.25	T	0.29
3	<i>GSK3B</i>	rs6805251	119560606	T	0.39	C	0.16	C	0.12
3	<i>MSL2</i>	rs645040	135926622	G	0.23	G	0.26	G	0.30
3	<i>PXK</i>	rs13315871	58381287	A	0.1	A	0.07	A	0.04
3	<i>RAF1</i>	rs2290159	12628920	C	0.23	C	0.28	C	0.28
3	<i>RBM5</i>	rs2013208	50129399	T	0.5	C	0.47	C	0.41
3	<i>SETD2</i>	rs2290547	47061183	A	0.2	A	0.06	A	0.04
3	<i>STAB1</i>	rs13326165	52532118	A	0.21	A	0.37	A	0.34
4	<i>ADH5</i>	rs2602836	100014805	A	0.44	G	0.29	G	0.33
4	<i>FAM13A</i>	rs3822072	89741269	A	0.46	G	0.43	G	0.46
4	<i>KLHL8</i>	rs442177	88030261	G	0.42	G	0.50	G	0.50
4	<i>LRPAP1</i>	rs6831256	3473139	G	0.42	A	0.33	A	0.36
4	<i>SLC39A8</i>	rs13107325	103188709	T	0.08	T	0.02	T	0.01
4	<i>SMIM20</i>	rs10019888	26062990	G	0.18	G	0.25	G	0.23
5	<i>ARL15</i>	rs6450176	53298025	A	0.26	A	0.29	A	0.29

5	<i>CSNK1G3</i>	rs4530754	122855416	G	0.46	G	0.27	G	0.22
5	<i>HMGCR</i>	rs12916	74656539	C	0.4	C	0.28	C	0.23
5	<i>MAP3K1</i>	rs9686661	55861786	T	0.2	T	0.29	T	0.25
5	<i>TIMD4</i>	rs6882076	156390297	T	0.36	C	0.38	C	0.38
6	<i>C6orf106</i>	rs2814944	34552797	T	0.12	T	0.26	A	0.30
6	<i>C6orf106</i>	rs2814982	34546560	T	N/A	T	0.23	T	0.30
6	<i>CITED2</i>	rs605066	139829666	C	0.42	T	0.41	T	0.45
6	<i>FRK</i>	rs9488822	116312893	T	0.36	T	0.38	T	0.35
6	<i>HBS1L</i>	rs9376090	135411228	C	0.28	C	0.08	C	0.04
6	<i>HFE</i>	rs1800562	26093141	A	0.07	A	0.02	A	0.01
6	<i>HLA-DRA</i>	rs3177928	32412435	A	0.17	A	0.13	A	0.10
6	<i>KCNK17</i>	rs2758886	39250837	A	0.3	A	0.21	A	0.16
6	<i>LPA</i>	rs1564348	160578860	C	0.18	C	0.09	C	0.11
6	<i>MYLIP</i>	rs3757354	16127407	T	0.24	T	0.39	T	0.34
6	<i>RSPO3</i>	rs1936800	127436064	C	0.49	C	0.50	C	0.48
6	<i>VEGFA</i>	rs998584	43757896	A	0.49	A	0.27	A	0.22
7	<i>DAGLB</i>	rs702485	6449272	G	0.45	A	0.31	A	0.21
7	<i>DNAH11</i>	rs12670798	21607352	C	0.25	C	0.35	C	0.33
7	<i>GPR146</i>	rs1997243	1083777	G	0.16	G	0.02	G	0.03
7	<i>IKZF1</i>	rs4917014	50305863	G	0.32	G	0.08	G	0.08
7	<i>KLF14</i>	rs4731702	130433384	T	0.42	T	0.32	T	0.26
7	<i>MET</i>	rs38855	116358044	G	0.47	G	0.24	G	0.20
7	<i>MIR148A</i>	rs4722551	25991826	C	0.2	C	0.05	C	0.04
7	<i>MLXIPL</i>	rs17145738	72982874	T	0.13	T	0.07	T	0.09
7	<i>NPC1L1</i>	rs2072183	44579180	C	0.29	C	0.20	C	0.20
7	<i>SNX13</i>	rs4142995	17919258	T	0.38	G	0.30	G	0.30
7	<i>TMEM176A</i>	rs17173637	150529449	C	0.12	C	0.06	C	0.06
7	<i>TYWIB</i>	rs13238203	72129667	T	0.04	T	0.01	T	0.01
8	<i>CYP7A1</i>	rs2081687	59388565	T	0.36	T	0.25	T	0.23
8	<i>LPL</i>	rs12678919	19844222	G	0.13	G	0.09	G	0.11
8	<i>NAT2</i>	rs1495741	18272881	G	0.26	G	0.33	G	0.39
8	<i>PINX1</i>	rs11776767	10683929	C	0.37	G	0.32	G	0.31
8	<i>PLEC</i>	rs11136341	145043543	G	0.4	G	0.39	A	0.50
8	<i>PPP1R3B</i>	rs9987289	9183358	A	0.1	A	0.20	A	0.17
8	<i>SOX17</i>	rs10102164	55421614	A	0.21	A	0.15	A	0.17
8	<i>TRIB1</i>	rs2954029	126490972	T	0.47	T	0.34	T	0.34
8	<i>TRPS1</i>	rs2293889	116599199	T	0.41	T	0.06	T	0.10
8	<i>TRPS1</i>	rs2737229	116648565	C	N/A	A	0.20	A	0.17
9	<i>ABCA1</i>	rs1883025	107664301	T	0.25	T	0.38	T	0.34
9	<i>TTC39B</i>	rs581080	15305378	G	0.21	G	0.38	C	0.49
9	<i>VLDLR</i>	rs3780181	2640759	G	0.08	G	0.21	G	0.20
10	<i>AKR1C4</i>	rs1832007	5254847	G	0.18	G	0.04	G	0.03
10	<i>CYP26A1</i>	rs2068888	94839642	A	0.45	A	0.34	A	0.33
10	<i>GPAM</i>	rs2255141	113933886	A	0.3	A	0.07	A	0.08
10	<i>JMJD1C</i>	rs10761731	65027610	T	0.44	T	0.30	T	0.30
10	<i>MARCH8</i>	rs970548	46013277	C	0.26	C	0.22	C	0.22
10	<i>VIM-AS1</i>	rs10904908	17260290	G	0.43	G	0.34	G	0.36
11	<i>AMPD3</i>	rs2923084	10388782	G	0.18	G	0.48	G	0.47
11	<i>APOA1</i>	rs964184	116648917	C	0.84	G	0.22	G	0.22
11	<i>FADS1</i>	rs174546	61569830	T	0.36	T	0.11	T	0.07
11	<i>KAT5</i>	rs12801636	65391317	A	0.23	A	0.27	A	0.26
11	<i>LRP4</i>	rs3136441	46743247	C	0.18	C	0.04	C	0.03
11	<i>MOGAT2</i>	rs499974	75455021	A	0.19	A	0.40	A	0.34

11	<i>OR4C46</i>	rs11246602	51512090	C	0.15	C	0.12	C	0.05
11	<i>PHLDB1</i>	rs11603023	118486067	T	0.42	T	0.45	T	0.48
11	<i>SPTY2D1</i>	rs10128711	18632984	T	0.3	C	0.30	C	0.20
11	<i>ST3GAL4</i>	rs11220462	126243952	A	0.14	A	0.04	A	0.04
11	<i>UBASH3B</i>	rs7941030	122522375	C	0.39	C	0.41	C	0.43
12	<i>BRAP</i>	rs11065987	112072424	G	0.41	G	0.09	G	0.07
12	<i>HNFI1A</i>	rs1169288	121416650	C	0.34	C	0.13	C	0.12
12	<i>LRP1</i>	rs11613352	57792580	T	0.26	T	0.14	T	0.09
12	<i>MVK</i>	rs7134594	110000193	C	0.48	C	0.33	C	0.26
12	<i>PDE3A</i>	rs7134375	20473758	A	0.43	A	0.36	A	0.29
12	<i>PHC1</i>	rs4883201	9082581	G	0.12	G	0.03	G	0.02
12	<i>SBNO1</i>	rs4759375	123796238	T	0.08	T	0.08	T	0.14
12	<i>SCARB1</i>	rs838880	125261593	C	0.34	T	0.35	T	0.33
12	<i>ZNF664</i>	rs4765127	124460167	T	0.35	T	0.35	T	0.36
13	<i>BRCA2</i>	rs4942486	32953388	T	0.48	T	0.48	T	0.49
14	<i>NYNRIN</i>	rs8017377	24883887	A	0.46	A	0.16	A	0.19
14	<i>ZBTB42</i>	rs4983559	105277209	G	0.4	A	0.39	A	0.42
15	<i>CAPN3</i>	rs2412710	42683787	A	0.04	A	0.06	A	0.07
15	<i>FRMD5</i>	rs2929282	44245931	T	0.07	T	0.31	T	0.31
15	<i>LACTB</i>	rs2652834	63396867	A	0.21	A	0.27	A	0.30
15	<i>LIPC</i>	rs1532085	58683366	A	0.4	G	0.48	G	0.46
16	<i>CETP</i>	rs3764261	56993324	A	0.32	A	0.31	A	0.31
16	<i>CMIP</i>	rs2925979	81534790	T	0.31	T	0.37	T	0.30
16	<i>CTF1</i>	rs11649653	30918487	G	0.4	G	0.11	G	0.09
16	<i>FTO</i>	rs1121980	53809247	A	0.43	A	0.49	A	0.45
16	<i>HPR</i>	rs2000999	72108093	A	0.2	A	0.08	A	0.07
16	<i>LCAT</i>	rs16942887	67928042	A	0.14	A	0.23	A	0.19
16	<i>PDXDC1</i>	rs3198697	15129940	T	0.43	T	0.09	T	0.06
17	<i>ABCA8</i>	rs4148008	66875294	G	0.33	C	0.43	C	0.46
17	<i>APOH</i>	rs1801689	64210580	C	0.04	C	0.00	C	0.01
17	<i>DLG4</i>	rs314253	7091650	C	0.37	C	0.32	C	0.39
17	<i>MPP3</i>	rs8077889	41878166	C	0.22	C	0.14	C	0.18
17	<i>OSBPL7</i>	rs7206971	45425115	A	0.49	G	0.56	A	0.46
17	<i>PGS1</i>	rs4129767	76403984	G	0.48	A	0.33	A	0.32
17	<i>STARD3</i>	rs11869286	37813856	G	0.35	C	0.34	C	0.23
18	<i>LIPG</i>	rs7241918	47160953	G	0.19	G	0.06	G	0.05
18	<i>MC4R</i>	rs12967135	57849023	A	0.25	A	0.26	A	0.27
19	<i>ANGPTL4</i>	rs7255436	8433196	C	0.47	C	0.36	C	0.31
19	<i>APOE</i>	rs439401	45414451	T	N/A	T	0.16	T	0.19
19	<i>APOE</i>	rs4420638	45422946	G	0.19	G	0.29	G	0.19
19	<i>CILP2</i>	rs10401969	19407718	C	0.09	C	0.18	C	0.17
19	<i>FUT2</i>	rs492602	49206417	G	0.47	A	0.49	A	0.49
19	<i>HAS1</i>	rs17695224	52324216	A	0.26	A	0.16	A	0.16
19	<i>INSR</i>	rs7248104	7224431	A	0.42	A	0.26	A	0.30
19	<i>LDLR</i>	rs6511720	11202306	T	0.12	T	0.12	T	0.12
19	<i>LILRA3</i>	rs386000	54792761	C	0.26	C	0.20	C	0.16
19	<i>LOC55908</i>	rs737337	11347493	C	0.11	C	0.40	C	0.45
19	<i>PEPD</i>	rs731839	33899065	G	0.35	G	0.43	G	0.38
20	<i>ERGIC3</i>	rs2277862	34152782	T	0.15	T	0.16	T	0.20
20	<i>HNFA4</i>	rs1800961	43042364	T	0.05	T	0.00	T	0.01
20	<i>MAFB</i>	rs2902940	39091487	G	0.3	G	0.42	G	0.48
20	<i>PLTP</i>	rs6065906	44554015	C	0.19	C	0.16	C	0.14
20	<i>SNX5</i>	rs2328223	17845921	C	0.21	C	0.10	C	0.22

20	<i>SPTLC3</i>	rs364585	12962718	A	0.38	A	0.15	A	0.16
20	<i>TOP1</i>	rs6029526	39672618	A	0.47	T	0.19	T	0.24
22	<i>MTMR3</i>	rs5763662	30378703	T	0.04	T	0.02	T	0.01
22	<i>PLA2G6</i>	rs5756931	38546033	C	0.4	C	0.11	C	0.11
22	<i>PPARA</i>	rs4253772	46627603	T	0.11	T	0.01	T	0.02
22	<i>TOM1</i>	rs138777	35711098	A	0.36	G	0.32	G	0.19
22	<i>UBE2L3</i>	rs181362	21932068	T	0.23	T	0.40	T	0.42

\*Chr= Chromosome; Allele frequencies for populations acquired from 1,000 genomes project build 37; GWAS = genome wide association study; MAF = minor allele frequency; ASW= African Ancestry in Southwest US; EArep = European Ancestry replication study; ASW is the U.S. representative populations in 1,000 genomes for African Americans ([http://grch37.ensembl.org/Homo\\_sapiens/Info/Index?db=core;r=1:178514812-178515812;v=rs4650994;vdb=variation;vf=2817147](http://grch37.ensembl.org/Homo_sapiens/Info/Index?db=core;r=1:178514812-178515812;v=rs4650994;vdb=variation;vf=2817147)).

Supplementary Table 2. M-values of 66 DNAm sites examined

Chr	Gene	DNAm site	Position	Mean M-Value	SD of Mean M-value
1	<i>EVI5</i>	cg00519208	93030907	0.767	0.051
1	<i>EVI5</i>	cg10989326	93031496	0.692	0.045
1	<i>GALNT2</i>	cg04702490	228269053	0.042	0.026
1	<i>GALNT2</i>	cg13769204	228270234	0.042	0.019
1	<i>PABPC4</i>	cg08866753	39814648	0.031	0.006
1	<i>PABPC4</i>	cg12585282	39815314	0.096	0.041
2	<i>APOB</i>	cg05337441	21120073	0.227	0.094
2	<i>APOB</i>	cg24309555	21120461	0.398	0.124
2	<i>GCKR</i>	cg20022122	27573626	0.800	0.036
2	<i>GCKR</i>	cg20229788	27572002	0.155	0.032
2	<i>RAB3GAP1</i>	cg12813922	135526410	0.023	0.006
2	<i>RAB3GAP1</i>	cg18312807	135526163	0.048	0.010
3	<i>RAF1</i>	cg09326546	12680291	0.037	0.027
3	<i>RAF1</i>	cg18331396	12680704	0.038	0.008
4	<i>SLC39A8</i>	cg04304927	103485577	0.027	0.020
4	<i>SLC39A8</i>	cg18277508	103485368	0.109	0.024
5	<i>HMGCR</i>	cg02162412	74668682	0.029	0.023
5	<i>TIMD4</i>	cg18994063	156322277	0.711	0.038
6	<i>FRK</i>	cg00430287	116489569	0.930	0.011
6	<i>FRK</i>	cg16176600	116488302	0.785	0.052
6	<i>HFE</i>	cg06892726	26195586	0.142	0.026
6	<i>HLA-DRA</i>	cg19248557	32515816	0.053	0.012
6	<i>HLA-DRA</i>	cg25764570	32515267	0.558	0.071
7	<i>NPC1L1</i>	cg14477619	44547406	0.861	0.024
7	<i>NPC1L1</i>	cg17754680	44548356	0.721	0.065
8	<i>PINX1</i>	cg11108432	10735108	0.041	0.024
8	<i>TRPS1</i>	cg12569516	116750367	0.045	0.007
8	<i>TRPS1</i>	cg21312090	116750901	0.113	0.085
9	<i>ABCA1</i>	cg05286874	106730306	0.028	0.012
9	<i>ABCA1</i>	cg21572316	106729839	0.088	0.020
10	<i>GPAM</i>	cg12137206	113933387	0.088	0.016
10	<i>GPAM</i>	cg24965984	113933713	0.151	0.048
10	<i>JMJD1C</i>	cg22492966	64698935	0.105	0.019
11	<i>FADS1</i>	cg09462826	61341349	0.100	0.017
11	<i>FADS1</i>	cg27173322	61340688	0.027	0.025
11	<i>ST3GAL4</i>	cg01234063	125731217	0.081	0.017
11	<i>ST3GAL4</i>	cg08203715	125731364	0.091	0.018
12	<i>SBNO1</i>	cg04398275	122400770	0.780	0.036
12	<i>SBNO1</i>	cg16068780	122401376	0.878	0.023
12	<i>ZNF664</i>	cg02252918	123024395	0.024	0.016
12	<i>ZNF664</i>	cg26493932	123022544	0.058	0.012

15	<i>CAPN3</i>	cg19170321	40427608	0.856	0.021
15	<i>CAPN3</i>	cg23414431	40427575	0.864	0.021
15	<i>FRMD5</i>	cg16046465	42274484	0.063	0.057
15	<i>FRMD5</i>	cg23074453	42275216	0.110	0.025
16	<i>HPR</i>	cg09584711	70654445	0.519	0.073
16	<i>HPR</i>	cg20672044	70653999	0.916	0.016
17	<i>ABCA8</i>	cg21660392	64462140	0.898	0.039
17	<i>STARD3</i>	cg14115004	35046738	0.082	0.031
17	<i>STARD3</i>	cg23894539	35047044	0.025	0.016
19	<i>ANGPTL4</i>	cg02505409	8335160	0.041	0.026
19	<i>ANGPTL4</i>	cg16745616	8334856	0.113	0.026
19	<i>FUT2</i>	cg01656853	53890984	0.413	0.047
19	<i>FUT2</i>	cg19025034	53890712	0.855	0.018
19	<i>LDLR</i>	cg05249393	11060883	0.095	0.018
19	<i>LDLR</i>	cg23943360	11061146	0.051	0.011
20	<i>ERGIC3</i>	cg00340102	33592870	0.255	0.042
20	<i>ERGIC3</i>	cg00350702	33593341	0.063	0.012
20	<i>HNF4A</i>	cg19717150	42418292	0.741	0.056
20	<i>HNF4A</i>	cg23834593	42417334	0.751	0.046
20	<i>TOP1</i>	cg04119538	39090865	0.042	0.019
20	<i>TOP1</i>	cg16376234	39090920	0.072	0.015
22	<i>PLA2G6</i>	cg04280397	36908084	0.067	0.011
22	<i>PLA2G6</i>	cg10184886	36907524	0.211	0.045
22	<i>UBE2L3</i>	cg25421647	20251833	0.140	0.054
22	<i>UBE2L3</i>	cg26286036	20252412	0.044	0.008

\*Chr= Chromosome; Map locations based on Illumina Infinium annotation file for the 27K array build 36 (<https://support.illumina.com/array/downloads.html>)