

Supplemental Table 1. Single nucleotide polymorphisms used for construction of the genetic risk scores

Locus name	Chr	Position (GRCh37)	Index SNP	Risk allele	Other allele	Odds ratio*	SNP used in MESA	SNP used in NAPS2	Function**
<i>FAF1</i>	1	50,909,985	rs17106184	G	A	1.07	rs17106219	rs17106219	BC
<i>NOTCH2</i>	1	120,517,959	rs10923931	T	G	1.09	rs2793831	rs2793831	
<i>PROX1</i>	1	214,154,719	rs2075423	G	T	1.07	rs340879	rs340879	BC
<i>GCKR</i>	2	27,741,237	rs780094	C	T	1.07	rs780094	rs780094	IR
<i>THADA</i>	2	43,690,030	rs10203174	C	T	1.13	rs17030845	rs17030845	BC
<i>BCL11A</i>	2	60,568,745	rs243088	T	A	1.06	rs243083	rs243083	
<i>RBMS1</i>	2	161,171,454	rs7593730	C	T	1.05	rs7593730	rs4077463	IR
<i>GRB14</i>	2	165,501,849	rs3923113	A	C	1.07	rs7592412	rs7592412	IR
<i>IRS1</i>	2	227,093,585	rs2943640	C	A	1.1	rs2943645	rs2943645	IR
<i>PPARG</i>	3	12,393,125	rs1801282	C	G	1.14	rs1801282	rs7647481	IR
<i>UBE2E2</i>	3	23,336,450	rs7612463	C	A	1.07	rs7612463	rs7612463	BC
<i>PSMD6</i>	3	64,048,297	rs831571	C	T	1.07	rs35837	rs35837	IR
<i>ADAMTS9</i>	3	64,705,365	rs6795735	C	T	1.06	rs6795735	rs17727064	IR
<i>ADCY5</i>	3	123,082,398	rs11717195	T	C	1.09	rs2877716	rs2877716	BC
<i>IGF2BP2</i>	3	185,511,687	rs4402960	T	G	1.14	rs4402960	rs4402960	BC
<i>ST6GAL1</i>	3	186,666,461	rs16861329	C	T	1.07	rs16861317	rs16861317	BC
<i>LPP</i>	3	187,740,523	rs6808574	C	T	1.06	rs6808574	rs6808574	BC
<i>WFS1</i>	4	6,289,986	rs4458523	G	T	1.06	rs4458523	rs4458523	BC
<i>ARL15</i>	5	53,271,420	rs702634	A	G	1.05	rs702634	rs702634	IR
<i>ANKRD55</i>	5	55,806,751	rs459193	G	A	1.11	rs459193	rs458036	IR
<i>ZBED3</i>	5	76,427,311	rs6878122	G	A	1.06	rs4457053	rs4457053	
<i>CDKAL1</i>	6	20,679,709	rs7756992	G	A	1.15	rs7756992	rs7756992	BC
<i>POU5F1/TCF19</i>	6	31,136,714	rs3132524	C	T	1.07	rs3130502	rs3130502	
<i>DGKB</i>	7	14,898,282	rs17168486	T	C	1.07	rs17168486	rs17168486	BC
<i>JAZF1</i>	7	28,196,413	rs849135	G	A	1.1	rs849134	rs1635852	BC
<i>GCK</i>	7	44,245,363	rs10278336	A	G	1.06	rs1990458	rs1990458	BC
<i>KLF14</i>	7	130,437,689	rs13233731	G	A	1.06	rs13234407	rs13234407	IR
<i>ANK1</i>	8	41,519,248	rs516946	C	T	1.07	rs516946	rs516946	BC
<i>TP53INP1</i>	8	95,937,502	rs7845219	T	C	1.04	rs7845219	rs7845219	
<i>SLC30A8</i>	8	118,185,025	rs3802177	G	A	1.11	rs3802177	rs13266634	BC
<i>GLIS3</i>	9	4,287,466	rs7041847	A	G	1.05	rs7034200	rs7034200	BC
<i>TLE4</i>	9	81,905,590	rs17791513	A	G	1.1	rs17791513	rs17791513	
<i>TLE1</i>	9	84,308,948	rs2796441	G	A	1.07	rs2796441	rs2796441	
<i>CDC123</i>	10	12,307,894	rs11257655	T	C	1.09	rs11257655	rs11257655	BC
<i>ZMIZ1</i>	10	80,942,631	rs12571751	A	G	1.07	rs12571751	rs703980	
<i>HHEX/IDE</i>	10	94,462,882	rs1111875	C	T	1.06	rs10882101	rs10882101	BC
<i>TCF7L2</i>	10	114,758,349	rs7903146	T	C	1.37	rs7903146	rs7903146	BC
<i>DUSP8</i>	11	1,696,849	rs2334499	T	C	1.03	rs2334499	rs2334499	BC
<i>KCNQ1</i>	11	2,847,069	rs163184	G	T	1.12	rs163184	rs163184	BC
<i>KCNJ11</i>	11	17,408,630	rs5215	C	T	1.07	rs5215	rs5215	BC
<i>ARAP1 (CENTD2)</i>	11	72,433,098	rs1552224	A	C	1.11	rs1552224	rs1552224	BC
<i>CCND2</i>	12	4,374,373	rs11063069	G	A	1.06	rs11063069	rs11063069	
<i>KLHDC5</i>	12	27,965,150	rs10842994	C	T	1.08	rs10842994	rs10842994	
<i>HMGA2</i>	12	66,212,318	rs2261181	T	C	1.1	rs2261181	rs2261181	IR
<i>TSPAN8</i>	12	71,433,293	rs7959965	C	T	1.05	rs7959965	rs7959965	BC
<i>MPHOSPH9</i>	12	123,640,853	rs1727313	G	C	1.05	rs1569068	rs1569068	
<i>SPRY2</i>	13	80,717,156	rs1359790	G	A	1.09	rs1359790	rs1215468	BC
<i>RASGRP1</i>	15	38,822,905	rs7403531	T	C	1.06	rs7403531	rs7403531	BC
<i>C2CD4A</i>	15	62,391,608	rs7163757	C	T	1.05	rs7163757	rs7163757	BC
<i>HMG20A</i>	15	77,747,190	rs7178572	G	A	1.08	rs1022172	rs1022172	
<i>ZFAND6</i>	15	80,432,222	rs11634397	G	A	1.06	rs11634397	rs11634397	
<i>AP3S2</i>	15	90,374,257	rs2028299	C	A	1.07	rs2028299	rs2028299	BC
<i>PRC1</i>	15	91,544,076	rs12899811	G	A	1.05	rs12899811	rs12899811	BC
<i>FTO</i>	16	53,819,169	rs9936385	C	T	1.13	rs9936385	rs9936385	IR
<i>BCAR1</i>	16	75,247,245	rs7202877	T	G	1.17	rs7202877	rs7202877	BC
<i>HNF1B</i>	17	36,098,040	rs4430796	G	A	1.08	rs4430796	rs4430796	BC
<i>MC4R</i>	18	57,884,750	rs12970134	A	G	1.05	rs12970134	rs12970134	IR
<i>CILP2</i>	19	19,407,718	rs10401969	C	T	1.1	rs10401969	rs10401969	
<i>PEPD</i>	19	33,893,008	rs3786897	A	G	1.04	rs3786897	rs3786897	IR
<i>HNF4A</i>	20	42,989,267	rs4812829	A	G	1.09	rs2144908	rs2144908	BC

\*Sources for odds ratios:

The source for 58 SNPs was Mahajan A et al (2018) Fine-mapping type 2 diabetes loci to single-variant resolution using high-density imputation and islet-specific epigenome maps. *Nat Genet* 50:1505-1513

The odds ratio for rs3132524 was obtained from Mahajan A et al (2014) Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. *Nat Genet* 46:234-244

The odds ratio for rs11634397 was obtained from Voight BF et al (2010) Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. *Nat Genet* 42:579-589

\*\*BC indicates role in beta-cell function; IR indicates role in insulin resistance