

Supplementary Material S3

Table S2 List of 114 SNPs examined in this study

SNV ID	Gene	Effect (risk) allele	Reference allele	Glycemic trait based on Powe et al. 2018 [6]	Other	Reference
rs1051266	<i>SLC19A1</i>	T	C		Vitamin B12, Neural tube defect	5
rs10811661	<i>CDKN2A/B</i>	T	C	Type 2 diabetes, Fasting glucose, Insulin production		1, 2, 6-9
rs10830962	<i>MTNR1B</i>	G	C		Gestational diabetes/Type 2 diabetes	4, 5
rs10998646	<i>SUPV3L1 / HKDC1</i>	T	G		Gestational diabetes	4
rs11254363	<i>CUBN</i>	G	A		Vitamin B12, Neural tube defect	5
rs1387153	<i>LOC100128354 / MTNR1B</i>	T	C		Gestational diabetes/Type 2 diabetes	3, 4, 8
rs17085593	<i>LOC441097 / PCSK1</i>	G	C		Gestational diabetes	4
rs17727202	<i>IRX1 / LOC340094</i>	T	C		Gestational diabetes	4
rs1801131	<i>MTHFR</i>	G	T		Folate	4
rs1801133	<i>MTHFR</i>	A	G		Folate	4
rs1801222	<i>CUBN</i>	A	G		Vitamin B12, Neural tube defect	5
rs1805087	<i>MTR</i>	G	A		Folate	4, 8
rs2119289	<i>FIGN</i>	G	C		Folate	5
rs2237892	<i>KCNQ1</i>	C	T	Type 2 diabetes		1, 2, 6-9
rs3746750	<i>C20orf59</i>	G	A		Gestational diabetes	4
rs4607517	<i>GCK</i>	A	G	Fasting glucose		4, 6
rs4746822	<i>HKDC1</i>	T	C		Gestational diabetes	4
rs4841132	<i>PPP1R3B / LOC100129150</i>	G	A	Fasting glucose, Fasting Insulin		4, 6

rs560887	<i>G6PC2</i>	T	C	Fasting glucose		4, 96
rs563694	<i>G6PC2 / ABCB11</i>	C	A		Gestational diabetes	4
rs6235	<i>PCSK1</i>	G	C		Gestational diabetes	4
rs6517656	<i>BACE2</i>	G	A		Gestational diabetes	4
rs7004769	<i>PPP1R3B / LOC100129150</i>	G	A		Gestational diabetes	4
rs737288	<i>BACE2</i>	T	G		Gestational diabetes	4
rs780094	<i>GCKR</i>	T	C	Type 2 diabetes, Fasting glucose, Fasting Insulin, Insulin Resistance		4,6
rs8050136	<i>FTO</i>	A	C		Obesity	1, 2, 7-9
rs12779790	<i>CDC123/CAMK1D</i>	G	A		Gestational diabetes	4
rs13266634	<i>SLC30A8</i>	C	T		Gestational diabetes/Type 2 diabetes	1, 2, 7-9
rs13342232	<i>SLC16A11</i>	G	A		Gestational diabetes/Type 2 diabetes	8
rs1799884	<i>GCK</i>	T	C		Gestational diabetes/Type 2 diabetes	4
rs1801278	<i>IRS1</i>	T	C		Gestational diabetes/Type 2 diabetes	4
rs4402960	<i>IGF2BP2</i>	T	G	Type 2 diabetes		1, 2, 6-9
rs573904	<i>SARDH</i>	T	C		Folate	5
rs7756134	<i>PARK2</i>	T	C		Gestational diabetes	4
rs7903146	<i>TCF7L2</i>	T	C	Type 2 diabetes, Insulin production		1, 2, 3, 6-9
rs10814916	<i>GLIS3</i>	C	A			3
rs10830963	<i>MTNR1B</i>	G	C	Fasting glucose, Insulin production		3,6
rs11558471	<i>SLC30A8</i>	A	G	Fasting glucose		6
rs11708067	<i>ADCY5</i>	A	G	Type 2 diabetes, Fasting glucose		6
rs11715915	<i>AMT</i>	C	T	Fasting glucose		6
rs11787792	<i>GPSM1</i>	A	G			3
rs12899811	<i>PRC1</i>	G	A	Type 2 diabetes, Insulin production		6

rs1496653	<i>UBE2E2</i>	A	G	Type 2 diabetes, Insulin production	6
rs17676067	<i>GLP2R</i>	C	T	Type 2 diabetes, Insulin production	6
rs17762454	<i>RRB1</i>	T	C	Fasting glucose	6
rs1801282	<i>PPARG</i>	C	G	Type 2 diabetes, Insulin Resistance	6
rs2785980	<i>LYPLAL1</i>	T	C	Fasting Insulin	6
rs340874	<i>PROX1</i>	C	T	Type 2 diabetes, Fasting glucose	6
rs34872471	<i>TCF7L2</i>	C	T		3
rs3802177	<i>SLC30A8</i>	G	A	Type 2 diabetes, Insulin production	3, 6
rs4458523	<i>WFS1</i>	G	T	Type 2 diabetes, Insulin Resistance	6
rs4502156	<i>C2CD4A/NLF1/VPS13C</i>	T	C	Type 2 diabetes, Insulin production	6
rs4506565	<i>TCF7L2</i>	T	A	Fasting glucose	3, 6
rs459193	<i>ANKRD55/MAP3K</i>	G	A	Type 2 diabetes, Fasting Insulin, Insulin Resistance	6
rs4691380	<i>PDGFC</i>	C	T	Fasting Insulin, Insulin Resistance	6
rs5215	<i>KCNJ11</i>	C	T	Type 2 diabetes, Insulin production	6
rs6048205	<i>FOXA2</i>	A	G	Fasting glucose	6
rs6072275	<i>TOP1</i>	A	G	Fasting glucose	6
rs7041847	<i>GLIS3</i>	A	G		3
rs731839	<i>PEPD</i>	G	A	Fasting Insulin	6
rs7607980	<i>COBLL1-GRB14</i>	T	C	Fasting Insulin, Insulin Resistance	6
rs7651090	<i>IGF2BP2</i>	G	A	Fasting glucose	6
rs7756992	<i>CDKAL1</i>	G	A	Type 2 diabetes, Insulin production	6
rs7957197	<i>HNF1A</i>	T	A	Type 2 diabetes, Insulin production	3, 6
rs933360	<i>GRB10</i>	T	C	Insulin production	6
rs9379084	<i>RREB1</i>	A	G		3
rs10747083	<i>P2RX2</i>	A	G	Fasting glucose	6
rs1106306	<i>CCND2</i>	C	T	Insulin Resistance	6
rs11603334	<i>ARAP1</i>	G	A	Fasting glucose	6
rs1167800	<i>HIP1</i>	A	G	Fasting Insulin	6

rs11920090	<i>SLC2A2</i>	T	A	Fasting glucose	6
rs12549902	<i>ANK1</i>	A	G	Insulin production	6
rs1421085	<i>FTO</i>	C	T	Fasting Insulin	6
rs1483121	<i>OR4S1</i>	G	A	Fasting glucose	6
rs1530559	<i>YSK4/MAP3K19</i>	A	G	Fasting Insulin	6
rs16996148	<i>CILP2</i>	T	G	Type 2 diabetes, Insulin Resistance	6
rs17036328	<i>PPARG</i>	T	C	Fasting Insulin	6
rs17265513	<i>ZHX3</i>	C	T	Type 2 diabetes, Insulin production	6
rs174550	<i>FADS1</i>	T	C	Fasting glucose, Insulin production	6
rs2191349	<i>DGKB/TMEM195</i>	T	G	Type 2 diabetes, Fasting glucose	6
rs2302593	<i>GIPR</i>	C	G	Fasting glucose	6
rs2334499	<i>DUSP8</i>	T	C	Type 2 diabetes, Insulin production	6
rs2657879	<i>GLS2</i>	G	A	Fasting glucose	6
rs2943634	<i>IRS1</i>	C	A	Fasting Insulin, Insulin Resistance	6
rs35767	<i>IGF1</i>	G	A	Fasting Insulin, Insulin Resistance	6
rs3822072	<i>FAM13A1</i>	A	G	Fasting Insulin	6
rs3829109	<i>LOC728489</i>	G	A	Fasting glucose	6
rs4646949	<i>UHRF1BP1</i>	T	G	Fasting Insulin	6
rs576674	<i>KL</i>	G	A	Fasting glucose, Insulin production	6
rs6742799	<i>RBMS1</i>	A	C	Type 2 diabetes, Insulin Resistance	6
rs6943153	<i>GRB10</i>	T	C	Fasting glucose, Insulin Resistance	6
rs7034200	<i>GLIS3</i>	A	C	Fasting glucose	6
rs7923866	<i>HHEX/IDE/KIF11</i>	C	T	Insulin production	6
rs7944584	<i>MADD</i>	A	T	Fasting glucose	6
rs9368222	<i>CDKAL1</i>	A	C	Fasting glucose	6
rs9884482	<i>TET2</i>	C	T	Fasting Insulin	6
rs10885122	<i>ADRA2A</i>	G	T	Fasting glucose	6
rs11071657	<i>C2CD4B</i>	A	G	Fasting glucose	6
rs11257655	<i>CDC123/CAMK1D</i>	T	C	Type 2 diabetes, Insulin production	6

rs11605924	<i>CRY2</i>	A	C	Fasting glucose, Insulin production		6
rs11671664	<i>GIPR</i>	A	G	Insulin production		6
rs1245471	<i>BCL2</i>	T	G	Insulin Resistance		6
rs13179048	<i>PCSK1</i>	C	A	Fasting glucose		6
rs1371614	<i>DPYSL5</i>	T	C	Fasting glucose		6
rs16913693	<i>IKBKAP</i>	T	G	Fasting glucose		6
rs2167270	<i>LEP</i>	G	A		Gestational diabetes, obesity	10
rs2241766	<i>ADIPOQ</i>	T	G		Gestational diabetes, obesity	10
rs2293941	<i>PDX1</i>	A	G	Fasting glucose		6
rs2745353	<i>RSPO3</i>	T	C	Fasting Insulin		6
rs3783347	<i>WARS</i>	G	T	Fasting glucose		6
rs4430796	<i>HNF1B</i>	G	A	Type 2 diabetes, Insulin production		6
rs4865796	<i>ARL15</i>	A	G	Fasting Insulin, Insulin Resistance		6
rs7708285	<i>ZBED3</i>	G	A	Fasting glucose		6
rs9921586	<i>CTRB2</i>	G	T	Type 2 diabetes, Insulin production		6

SNP, single nucleotide polymorphism.

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