SUPPLEMENTARY MATERIAL

Table S1. Basic characteristics of 40 genotyped SNPs in candidate genes and their associated traits.

Gene	SNP	CHR	Mutation Type	Known associations of interest	References
ADIPOQ	rs266729	3	Upstream gene variant	Nephropathy and Retinopathy in T2D	Cai et al. 2015; Li et al. 2015
ADIPOQ, ADIPOQ-AS1	rs1063539	3	3'UTR variant, Upstream gene variant	Diabetes mellitus and Hypertension	Tong et al. 2013; Jiang et al. 2014
APOE	rs440446	19	Missense variant	Not associated to T2D	Geng et al. 2011
CAT	rs1001179	11	Upstream gene variant	Oxidative stress, Type 2 Diabetes	Pacal et al. 2011
CLPTM1L	rs401681	5	Upstream variant 2KB	Pancreatic cancer, T2D	Wu et al. 2015
DDAH1	rs669173	1	Intron variant, Non coding transcript variant, Downstream gene variant	ADMA(Asymmetric dimethylarginine) levels	Abhary et al. 2010
DDAH1	rs13373844	1	Intron variant, Non coding transcript variant	ADMA(Asymmetric dimethylarginine) levels	Abhary et al. 2010
DDAH1	rs7521189	1	Intron variant, Non coding transcript variant	ADMA(Asymmetric dimethylarginine) levels	Abhary et al. 2010
EPO	rs1617640	7	Upstream variant 2KB	Diabetic Retinopathy, Diabetic Nephropathy	Tong et al. 2008
EPO	rs507392	7	Intron variant	Diabetic Retinopathy, Diabetic Nephropathy	Tong et al. 2008
EPO	rs551238	7	Downstream gene variant 500B	Diabetic Retinopathy, Diabetic Nephropathy	Tong et al. 2008
FTO	rs1121980	16	Intron variant, NMD transcript variant, Non coding transcript variant	Susceptibility to Type 2 Diabetes, Obesity	Li et al. 2011
FTO	rs1421085	16	Intron variant, NMD transcript variant, Non coding transcript variant	BMI and Type 2 Diabetes	Akiyama et al. 2014
FTO	rs17817449	16	Intron variant, NMD transcript variant, Non coding transcript variant	Susceptibility to Type 2 Diabetes, Obesity	Basile et al. 2014
FTO	rs8047395	16	Intron variant, NMD transcript variant, Non coding transcript variant	Susceptibility to Type 2 Diabetes, Obesity	Akiyama et al. 2014
FTO	rs8050136	16	Intron variant, NMD transcript variant, Non coding transcript variant	Susceptibility to Type 2 Diabetes	Chang et al. 2014
FTO	rs9939609	16	Intron variant, NMD transcript variant, Non coding transcript variant	BMI and Type 2 Diabetes	Akiyama et al. 2014

HIF1A	rs11549465	14	Missense variant	Susceptibility to Type 1 and Type 2 Diabetes	Nagy et al. 2009
IGF2BP2	rs1470579	3	Intron variant	Susceptibility to Type 2 Diabetes	Park et al. 2015
IGF2BP2	rs4402960	3	Intron variant	Susceptibility to Type 2 Diabetes	Scott et al. 2007; The Wellcome Trust Case Control 2007; Zeggini et al. 2007
IRS1	rs2943641	2	Intergenic variant (500 kb upstream)	Insulin resistance and Hyperinsulinemia	Rung et al. 2009
KCNJ11	rs5215	11	Missense variant	Susceptibility to Type 2 Diabetes	Zeggini et al. 2008
KCNQ1	rs2237892	11	Intron variant	Susceptibility to Type 2 Diabetes	Kong et al. 2009
SLC30A8	rs13266634	8	Missense variant	Susceptibility to Type 2 Diabetes	Sladek et al. 2007
SLC30A8	rs16889462	8	Missense variant	Susceptibility to Type 2 Diabetes	Labruna et al. 2011; Sun et al. 2014
SOD2	rs4880	6	Missense variant	Diabetic Nephropathy	Mollsten et al. 2007
TCF7L2	rs7901695	10	Intron variant	Susceptibility to Type 2 Diabetes	Scott et al. 2007; The Wellcome Trust Case Control 2007; Zeggini et al. 2007
TCF7L2	rs7903146	10	Intron variant	Susceptibility to Type 2 Diabetes	Grant et al. 2006
TERC	rs12696304	3	Downstream gene variant (1.5 kb)	Human Leukocyte Telomere Length and the Risk of T2D	Codd et al. 2010; Al Khaldi et al. 2015
TERT	rs2735940	5	Upstream variant 2KB	Susceptibility to Breast cancer	Pellatt et al. 2013
TERT	rs2736098	5	Synonymous variant	Cancer, T2D, leukocyte telomere length	You et al. 2012, Wu et al. 2015
TERT	rs2736109	5	Upstream variant 2KB	Telomere lengths, Susceptibility to Breast and Ovarian cancer	Bojesen et al. 2013
TERT	rs2853669	5	Upstream variant 2KB	Susceptibility to Type 2 Diabetes	You et al. 2012,
UCP1	rs1800592	4	Upstream gene variant	Abdominal Fat, Blood pressure, Retinopathy, Insulin resistance, T2D	Fukuyama et al. 2006; Cha et al. 2008; Ho Cha et al. 2008; Zhang et al. 2015
UCP1	rs3811787	4	Upstream gene variant	Abdominal Fat, Obesity	Ho Cha et al. 2008, Labruna et al. 2011

UCP1	rs3811791	4	Upstream gene variant	Susceptibility to Type 2 Diabetes	Lee et al. 2008
UCP1	rs45539933	4	Missense variant	Blood pressure, Obesity	Cha et al. 2008, Labruna et al. 2011
UCP2	rs660339	11	Missense variant	Diabetic Retinopathy	Crispim et al. 2010
UCP3	rs1800849	11	5'UTR variant	Age, Type 2 Diabetes, Abdominal Obesity	Pinelli et al. 2006
VEGFA	rs3025021	6	Intron variant, Non coding transcript variant, Non coding transcript exon variant, downstream gene variant	Diabetic Retinopathy	Abhary et al. 2010,

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Table S2. Association analysis of candidate SNPs with diabetic microvascular and macrovascular complications.

				Retinopathy		Nephropathy		Neuropathy		Ischemic heart disease and stroke	
Gene	**SNP**	**Alleles**	**MAF**	**OR (95% CI)[a]**	**P-value**	**OR (95% CI)[a]**	**P-value**	**OR (95% CI)[a]**	**P-value**	**OR (95% CI)a**	**P-value**
ADIPOQ	rs266729	C/G	0.24	1.10 (0.74-1.63)	0.641	1.1 (0.70-1.73)	0.672	0.9 (0.58-1.38)	0.616	0.61 (0.39-0.95)	0.024
ADIPOQ-AS1	rs1063539	G/C	0.10	0.60 (0.30-1.22)	0.143	0.91 (0.43-1.90)	0.795	0.46 (0.19-1.12)	0.065	0.83 (0.43-1.64)	0.592
APOE	rs440446	G/C	0.39	1.13 (0.79-1.62)	0.510	1.12 (0.73-1.71)	0.617	1.06 (0.71-1.59)	0.760	1.16 (0.81-1.67)	0.425
CAT	rs1001179	G/A	0.22	1.03 (0.66-1.63)	0.885	0.48 (0.26-0.87)	0.010	0.93 (0.56-1.52)	0.760	1.03 (0.66-1.6)	0.905
CLPTM1L	rs401681	C/T	0.40	1.10 (0.76-1.58)	0.627	1.33 (0.86-2.04)	0.197	0.95 (0.64-1.41)	0.792	0.95 (0.65-1.38)	0.794
DDAH1	rs13373844	A/C	0.35	1.19 (0.82-1.71)	0.366	0.88 (0.57-1.35)	0.547	1.13 (0.77-1.67)	0.533	0.92 (0.63-1.33)	0.654
DDAH1	rs7521189	A/G	0.46	1.09 (0.76-1.57)	0.624	0.95 (0.62-1.44)	0.800	1.18 (0.8-1.75)	0.403	1.09 (0.76-1.56)	0.641
EPO	rs1617640	T/G	0.32	0.95 (0.65-1.39)	0.804	0.89 (0.57-1.37)	0.585	1.36 (0.92-2.02)	0.128	1.01 (0.70-1.47)	0.948
EPO	rs507392	T/C	0.32	0.92 (0.62-1.35)	0.665	0.92 (0.59-1.43)	0.713	1.38 (0.93-2.06)	0.114	1.08 (0.73-1.58)	0.709
EPO	rs551238	A/C	0.32	0.95 (0.65-1.39)	0.804	0.89 (0.57-1.37)	0.585	1.36 (0.92-2.02)	0.128	1.01 (0.70-1.47)	0.948
FTO	rs1121980	C/T	0.48	1.01 (0.70-1.44)	0.976	0.64 (0.42-0.96)	0.030	1.15 (0.79-1.67)	0.461	0.97 (0.68-1.38)	0.875
FTO	rs1421085	T/C	0.47	0.97 (0.68-1.38)	0.864	0.63 (0.42-0.95)	0.026	1.25 (0.86-1.82)	0.240	0.95 (0.67-1.35)	0.783
FTO	rs17817449	T/G	0.45	1.08 (0.76-1.53)	0.684	0.66 (0.44-0.98)	0.044	1.07 (0.74-1.55)	0.704	0.97 (0.69-1.37)	0.866
FTO	rs8050136	C/A	0.45	1.10 (0.77-1.57)	0.594	0.68 (0.45-1.03)	0.068	1.11 (0.76-1.61)	0.590	0.98 (0.69-1.39)	0.907
FTO	rs9939609	T/A	0.45	1.06 (0.74-1.52)	0.739	0.67 (0.45-1.02)	0.057	1.09 (0.75-1.58)	0.644	0.99 (0.70-1.41)	0.974
HIF1A	rs11549465	C/T	0.15	1.24 (0.75-2.05)	0.398	0.95 (0.53-1.71)	0.860	0.9 (0.52-1.57)	0.708	1.50 (0.93-2.41)	0.101
IGF2BP2	rs4402960	G/T	0.37	1.32 (0.92-1.89)	0.133	1.04 (0.68-1.59)	0.854	1.10 (0.74-1.64)	0.63	1.23 (0.86-1.77)	0.262
IRS1 (500 kb downstream)	rs2943641	C/T	0.40	1.22 (0.86-1.75)	0.267	1.03 (0.69-1.56)	0.871	0.71 (0.48-1.06)	0.086	0.93 (0.65-1.34)	0.712
KCNJ11	rs5215	T/C	0.34	1.14 (0.79-1.63)	0.483	1.17 (0.77-1.77)	0.463	0.78 (0.52-1.16)	0.209	0.89 (0.61-1.29)	0.527
KCNQ1	rs2237892	C/T	0.05	0.80 (0.33-1.91)	0.603	1.03 (0.41-2.57)	0.951	2.06 (0.95-4.45)	0.076	0.70 (0.29-1.73)	0.429
TCF7L2	rs7903146	C/T	0.44	0.70 (0.47-1.03)	0.070	1.21 (0.79-1.86)	0.373	0.84 (0.55-1.27)	0.399	0.97 (0.67-1.40)	0.866
TERC	rs12696304	C/G	0.27	0.86 (0.58-1.25)	0.420	1.20 (0.78-1.84)	0.410	0.72 (0.47-1.11)	0.125	0.89 (0.61-1.32)	0.573
TERT	rs2735940	T/C	0.42	1.14 (0.78-1.67)	0.498	1.22 (0.79-1.87)	0.374	0.72 (0.47-1.09)	0.116	1.28 (0.88-1.87)	0.191
TERT	rs2736098	G/A	0.29	1.01 (0.65-1.56)	0.973	0.69 (0.41-1.16)	0.151	1.48 (0.92-2.38)	0.105	1.08 (0.70-1.67)	0.726
TERT	rs2736109	G/A	0.41	1.04 (0.71-1.51)	0.844	0.69 (0.44-1.09)	0.108	0.94 (0.63-1.42)	0.781	1.07 (0.73-1.57)	0.726
UCP1	rs1800592	A/G	0.24	0.84 (0.55-1.29)	0.426	0.57 (0.33-0.98)	0.031	0.86 (0.54-1.36)	0.509	1.10 (0.74-1.64)	0.643

UCP1	rs3811787	T/G	0.25	1.20 (0.80-1.79)	0.382	0.57 (0.34-0.98)	0.031	1.02 (0.66-1.57)	0.945	1.20 (0.81-1.77)	0.367
UCP1	rs45539933	C/T	0.06	0.31 (0.12-0.82)	0.010	0.52 (0.18-1.52)	0.198	1.46 (0.68-3.13)	0.340	1.08 (0.52-2.26)	0.837
UCP2	rs660339	C/T	0.34	0.79 (0.54-1.15)	0.211	1.43 (0.93-2.18)	0.102	1.03 (0.69-1.55)	0.882	0.91 (0.62-1.34)	0.635
UCP3	rs1800849	C/T	0.14	0.88 (0.52-1.49)	0.627	1.72 (0.99-2.99)	0.060	1.13 (0.65-1.97)	0.660	0.86 (0.50-1.48)	0.586
VEGFA	rs3025021	C/T	0.32	1.04 (0.70-1.56)	0.841	1.03 (0.64-1.65)	0.894	0.98 (0.63-1.51)	0.916	0.79 (0.52-1.21)	0.278

Abbreviation: MAF, Minor Allele Frequency; OR, odds ratio; CI, confidence interval.

Significant p-values (<0.10) are highlighted in bold.

[a] At each SNP, an additive model was considered. Age. sex. BMI and familiarity were included as covariates.