

Supplementary Table 4a: Association of eight SNPs in *CDKAL1* to T2D in Iceland, Hong Kong and West-Africa.

Association to T2D for eight SNPs in the *CDKAL1* gene for three of the seven study groups; from Iceland, Hong Kong and West-Africa. The seven additional SNPs are all highly correlated to rs7756992.

SNP	Allele	Position ^b	Combined ^a			Iceland			Hong Kong				West-Africa ^c			
			OR (95% CI)	<i>P</i>	Con.frq	Case.frq	OR	<i>P</i>	Con.frq	Case.frq	OR	<i>P</i>	Con.frq	Case.frq	OR	<i>P</i>
rs7752906	A	20774034	1.19 (1.11-1.28)	6.5×10 ⁻⁷	0.296	0.338	1.22	0.00076	0.362	0.422	1.29	3.2×10 ⁻⁵	0.654	0.674	1.06	0.43
rs1569699	C	20787289	1.19 (1.12-1.27)	1.4×10 ⁻⁷	0.257	0.297	1.22	0.00018	0.463	0.519	1.25	0.00019	0.627	0.656	1.10	0.17
rs7756992	G	20787688	1.17 (1.09-1.25)	3.1×10 ⁻⁶	0.232	0.270	1.23	0.00021	0.462	0.517	1.25	0.00018	0.612	0.625	1.02	0.72
rs9350271	A	20791143	1.18 (1.11-1.26)	9.6×10 ⁻⁷	0.257	0.298	1.23	0.00016	0.356	0.406	1.23	0.00055	0.695	0.712	1.07	0.38
rs9356744	C	20793465	1.18 (1.11-1.26)	7.9×10 ⁻⁷	0.256	0.297	1.23	0.00014	0.357	0.407	1.24	0.00045	0.696	0.713	1.06	0.39
rs9368222	A	20794975	1.20 (1.12-1.28)	4.8×10 ⁻⁷	0.231	0.269	1.22	0.00029	0.355	0.405	1.24	0.00041	0.184	0.203	1.10	0.27
rs10440833	A	20796100	1.18 (1.11-1.27)	1.4×10 ⁻⁶	0.233	0.269	1.22	0.00046	0.354	0.407	1.25	0.00024	0.213	0.226	1.06	0.48
rs6931514	G	20811931	1.19 (1.11-1.27)	7.8×10 ⁻⁷	0.231	0.267	1.22	0.00047	0.464	0.520	1.25	0.00015	0.231	0.249	1.07	0.41

^aResults for the three groups were combined using a Mantel-Haenszel model. ^bBasepair position in NCBI Build 34. ^cResults for the five West-African groups were combined using Mantel-Haenszel model and the allele frequencies shown are a weighted average of the frequency for the five groups.

Supplementary Table 4b: Pair-wise correlation for SNPs typed in CDKAL1.

Pair-wise correlation, D' (lower left corner) and r^2 (upper right corner), for the eight SNPs in *CDKAL1* that were tested for association to T2D. The correlation is estimated for control individuals from the Icelandic, Hong Kong and West-African study groups, respectively.

D' / r^2	rs7752906	rs1569699	rs7756992	rs9350271	rs9356744	rs9368222	rs10440833	rs6931514
Iceland								
rs7752906	-	0.55	0.66	0.56	0.56	0.67	0.66	0.65
rs1569699	0.83	-	0.87	0.99	0.98	0.85	0.83	0.83
rs7756992	0.98	1.00	-	0.86	0.86	0.99	0.97	0.96
rs9350271	0.84	1.00	1.00	-	1.00	0.86	0.85	0.84
rs9356744	0.84	1.00	1.00	1.00	-	0.87	0.86	0.85
rs9368222	0.99	1.00	1.00	1.00	1.00	-	0.98	0.97
rs10440833	0.96	0.97	1.00	0.98	0.99	1.00	-	0.99
rs6931514	0.96	0.97	0.99	0.98	0.99	0.99	1.00	-
Hong Kong								
rs7752906	-	0.45	0.46	0.77	0.76	0.77	0.77	0.46
rs1569699	0.84	-	0.99	0.63	0.63	0.62	0.62	0.98
rs7756992	0.84	1.00	-	0.63	0.62	0.64	0.64	0.99
rs9350271	0.89	1.00	0.99	-	1.00	0.99	0.99	0.62
rs9356744	0.88	0.99	0.99	1.00	-	0.99	0.99	0.62
rs9368222	0.89	0.99	1.00	1.00	1.00	-	1.00	0.63
rs10440833	0.89	1.00	1.00	1.00	1.00	1.00	-	0.63
rs6931514	0.84	0.99	1.00	0.99	0.99	1.00	1.00	-
West-Africa								
rs7752906	-	0.16	0.32	0.13	0.14	0.12	0.07	0.08
rs1569699	0.42	-	0.61	0.72	0.72	0.12	0.07	0.09
rs7756992	0.62	0.84	-	0.67	0.67	0.14	0.08	0.10
rs9350271	0.40	0.96	0.99	-	0.99	0.10	0.04	0.05
rs9356744	0.41	0.96	1.00	1.00	-	0.10	0.04	0.06
rs9368222	1.00	0.96	0.95	1.00	1.00	-	0.86	0.76
rs10440833	0.68	0.68	0.68	0.59	0.60	1.00	-	0.87
rs6931514	0.73	0.72	0.73	0.63	0.65	0.99	1.00	-