

## SUPPLEMENTARY DATA – Online Appendix Tables 1, 8, 11

**Supplementary table 1:** Genotyped tagSNPs from known risk or protective HLA alleles for type 1 diabetes selected from supplementary table 3 in deBakker *et al.* (28)

HLA allele	Frequency	Tag SNPs
HLA-DQA*0101	0.1333	rs8457614,rs1794285
HLA-DQA*0102	0.2389	rs14004,rs8457594
HLA-DQA*0201	0.1333	rs7745002,rs2858333,rs6p0315
HLA-DQA*0301	0.2278	rs3129883,rs7745002,rs3844313
HLA-DQA*0401	0.0333	rs7743506
HLA-DQA*0501	0.1778	rs10485326,rs2040406
HLA-DQB*0201	0.1556	rs4988889
HLA-DQB*0301	0.1667	rs7744001,rs2856691
HLA-DQB*0302	0.1444	rs7454108,rs2071876
HLA-DQB*0303	0.0611	rs3834857,rs2395533
HLA-DQB*0402	0.0333	rs7743506
HLA-DQB*0501	0.0944	rs8457614
HLA-DQB*0503	0.0389	rs1794285
HLA-DQB*0602	0.2000	rs3135388
HLA-DRB*0101	0.0889	rs4947332,rs8457614
HLA-DRB*0301	0.0944	rs2040410
HLA-DRB*0401	0.0889	rs8910071,rs3817964,rs860895
HLA-DRB*0402	0.0056	rs3130071,rs416352
HLA-DRB*0403	0.0167	rs7454108,rs206765,rs399604
HLA-DRB*0405	0.0056	rs1057149
HLA-DRB*0701	0.1000	rs7745002,rs2647087,rs241398
HLA-DRB*0801	0.0333	rs7743506
HLA-DRB*0901		Not reported
HLA-DRB*1101	0.0500	rs434841,rs1061172,rs5875439
HLA-DRB*1401	0.0333	rs2763979,rs1794285
HLA-DRB*1404	0.0056	rs805262,rs1794285
HLA-DRB*1501	0.2000	rs3135388

**Supplementary table 8:** Successfully genotyped tag SNPs used for phasing HLA-haplotypes

HLA-haplotypes	Tag SNPs
DRB1*0402 - DQA1*0301 - DQB1*0302	rs3130071 rs416352 rs3129883 rs7454108 rs2071876
DRB1*0401 - DQA1*0301 - DQB1*0302	rs8910071 rs3129883 rs7454108 rs2071876
DRB1*0901 - DQA1*0301 - DQB1*0303	rs3129883 rs2395533
DRB1*1501 - DQA1*0102 - DQB1*0602	rs14004 rs3135388
DRB1*0701 - DQA1*0201 - DQB1*0303	rs2858333 rs241398 rs2395533
DRB1*0401 - DQA1*0301 - DQB1*0301	rs8910071 rs3129883 rs7744001
DRB1*0403 - DQA1*0301 - DQB1*0302	rs3129883 rs7454108 rs2071876 rs206765 rs399604

**Supplementary table 11:** Phenotypic characteristics for the less stringent classified diabetic cases divided in male and female subjects. Data are listed as means  $\pm$  SD.

	LADA		Type 1 diabetes		Type 2 diabetes	
	Male	Female	Male	Female	Male	Female
N	8	10	12	4	103	152
Age when attended (years)	67 $\pm$ 13	71 $\pm$ 9	41 $\pm$ 16	45 $\pm$ 14	67 $\pm$ 12	73 $\pm$ 11
Age at diagnosis (years)	55 $\pm$ 13	61 $\pm$ 10	21 $\pm$ 9	21 $\pm$ 5	59 $\pm$ 12	63 $\pm$ 13
BMI (kg/m <sup>2</sup> )	26.7 $\pm$ 3.4	26.3 $\pm$ 5.32	26.9 $\pm$ 2.6	25.3 $\pm$ 2.3	28.4 $\pm$ 4.5	29.8 $\pm$ 5.2
Waist-to-hip ratio	0.92 $\pm$ 0.06	0.84 $\pm$ 0.09	0.88 $\pm$ 0.04	0.76 $\pm$ 0.16	0.94 $\pm$ 0.06	0.86 $\pm$ 0.07
Cholesterol (mmol/l)	5.8 $\pm$ 1.0	6.4 $\pm$ 0.9	5.4 $\pm$ 1.4	5.9 $\pm$ 1.1	5.9 $\pm$ 1.2	6.7 $\pm$ 1.4
HDL (mmol/l)	1.5 $\pm$ 0.6	1.6 $\pm$ 0.6	1.4 $\pm$ 0.5	1.9 $\pm$ 0.3	1.2 $\pm$ 0.4	1.3 $\pm$ 0.4
Triglycerides (mmol/l)	1.1 $\pm$ 0.6	1.8 $\pm$ 1.3	1.6 $\pm$ 0.84	1.3 $\pm$ 0.73	2.3 $\pm$ 1.4	2.6 $\pm$ 2.4
Systolic blood pressure (mmHg)	150 $\pm$ 17	147 $\pm$ 25	134 $\pm$ 12	126 $\pm$ 14	154 $\pm$ 24	162 $\pm$ 24
Diastolic blood pressure (mmHg)	83 $\pm$ 7.5	83 $\pm$ 13	78 $\pm$ 12	72 $\pm$ 6.5	86 $\pm$ 13	87 $\pm$ 14
Non-fasting Glucose (mmol/l)	9.3 $\pm$ 5.8	11.2 $\pm$ 6.1	9.8 $\pm$ 4.5	8.0 $\pm$ 5.0	10.8 $\pm$ 4.9	9.3 $\pm$ 4.3