### 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    | rs6457614, rs1704285      |
| HLA-DQA*0102 | 0.2389    | rs14004, rs6457594        |
| HLA-DQA*0201 | 0.1333    | rs7745002, rs2869233, rs0916 |
| HLA-DQA*0301 | 0.2278    | rs3129883, rs7745002, rs3844313 |
| HLA-DQA*0401 | 0.0333    | rs7743506                 |
| HLA-DQA*0501 | 0.1778    | rs10485328, rs2040406     |
| HLA-DQB*0201 | 0.1556    | rs4988889                 |
| HLA-DQB*0301 | 0.1667    | rs7744001, rs2869691      |
| HLA-DQB*0302 | 0.1444    | rs7454108, rs2071676      |
| HLA-DQB*0303 | 0.0611    | rs3834857, rs2395633      |
| HLA-DQB*0402 | 0.0333    | rs7743506                 |
| HLA-DQB*0501 | 0.0944    | rs6457614                 |
| HLA-DQB*0503 | 0.0389    | rs1704285                 |
| HLA-DQB*0802 | 0.2000    | rs3135388                 |
| HLA-DRB*0101 | 0.0889    | rs4647332, rs0457614      |
| HLA-DRB*0301 | 0.0944    | rs2040410                 |
| HLA-DRB*0401 | 0.0889    | rs6910071, rs3817994, rs660695 |
| HLA-DRB*0402 | 0.0056    | rs3130071, rs418352       |
| HLA-DRB*0403 | 0.0167    | rs7454108, rs206765, rs399604 |
| HLA-DRB*0405 | 0.0056    | rs1057149                 |
| HLA-DRB*0701 | 0.1000    | rs7745002, rs2647087, rs241398 |
| HLA-DRB*0901 | 0.0333    | rs7743500                 |
| HLA-DRB*0901 | Not reported |                        |
| HLA-DRB*1101 | 0.0500    | rs434841, rs1061172, rs5875439 |
| HLA-DRB*1401 | 0.0333    | rs2763979, rs1704285     |
| HLA-DRB*1404 | 0.0056    | rs805262, rs1704285      |
| 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, rs418352, rs3129883, rs7454108, rs2071676 |
| DRB1*0401 - DQA1*0301 - DQB1*0302 | rs8910071, rs3129883, rs7454108, rs2071676 |
| DRB1*0901 - DQA1*0301 - DQB1*0303 | rs3129883, rs2395533 |
| DRB1*1501 - DQA1*0102 - DQB1*0302 | rs14004, rs3135388 |
| DRB1*0701 - DQA1*0301 - DQB1*0303 | rs2685333, rs241398, rs2395533 |
| DRB1*0401 - DQA1*0301 - DQB1*0301 | rs6910071, rs3129883, rs7744001 |
| DRB1*0403 - DQA1*0301 - DQB1*0302 | rs3129883, rs7454108, rs2071676, rs206785, rs399604 |

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

|                       | LADA     |               | Type 1 diabetes |               | Type 2 diabetes |               |
|-----------------------|----------|---------------|-----------------|---------------|-----------------|---------------|
|                       | Male     | Female        | Male            | Female        | Male            | Female        |
| N                     | 8        | 10            | 12              | 4             | 108             | 152           |
| Age when attended (years) | 67 ± 13  | 71 ± 9        | 41 ± 16         | 45 ± 14       | 67 ± 12         | 73 ± 11       |
| Age at diagnosis (years) | 55 ± 13  | 61 ± 10       | 21 ± 9          | 21 ± 5        | 59 ± 12         | 63 ± 13       |
| BMI (kg/m²)            | 26.7 ± 3.4 | 26.3 ± 5.32  | 26.9 ± 2.6      | 25.3 ± 2.3    | 28.4 ± 4.5      | 29.8 ± 5.2    |
| Waist-to-hip ratio     | 0.92 ± 0.06 | 0.84 ± 0.09  | 0.88 ± 0.04     | 0.76 ± 0.16   | 0.94 ± 0.06     | 0.86 ± 0.07   |
| Cholesterol (mmol/l)   | 5.8 ± 1.0 | 6.4 ± 0.9     | 5.4 ± 1.4       | 5.9 ± 1.1     | 5.9 ± 1.2       | 6.7 ± 1.4     |
| HDL (mmol/l)           | 1.5 ± 0.6 | 1.6 ± 0.6     | 1.4 ± 0.5       | 1.9 ± 0.3     | 1.2 ± 0.4       | 1.3 ± 0.4     |
| Triglycerides (mmol/l) | 1.1 ± 0.6 | 1.8 ± 1.3     | 1.6 ± 0.84      | 1.3 ± 0.73    | 2.3 ± 1.4       | 2.6 ± 2.4     |
| Systolic blood pressure (mmHg) | 150 ± 17 | 147 ± 25     | 134 ± 12        | 126 ± 14      | 154 ± 24        | 162 ± 24      |
| Diastolic blood pressure (mmHg) | 83 ± 7.5 | 83 ± 13     | 78 ± 12         | 72 ± 6.5      | 86 ± 13         | 87 ± 14       |
| Non-fasting Glucose (mmol/l) | 9.3 ± 5.8 | 11.2 ± 6.1   | 9.8 ± 4.5       | 8.0 ± 5.0     | 10.8 ± 4.9      | 9.3 ± 4.3     |