**Table S3.** Previously reported polymorphisms significantly associated with total serum IgE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene | Polymorphism | *P* value previously reported  | *P* value in our GWAS\* | Reference |
| *ADAM33* | rs2280091 | 0.0033 | NA | [1] |
|  | rs597980 | 0.032 | NA | [2] |
|  | rs574174 | 0.01 | NA | [3] |
|  | rs528557 | 0.041 | NA | [4] |
| *ADRB2* | rs1042714 | <0.0001 | 0.846 | [5] |
|  | rs1042713 | 0.04 | 0.475 | [6] |
| *CCL11* | rs16969415 | 0.0006 | NA | [7] |
|  | rs3744508 | 0.002 | NA | [8] |
|  | rs17809012 | 0.016 | NA | [9] |
| *CD14* | rs2569190 | 0.0016 | NA | [10] |
|  | rs3138078 | 0.034 | NA | [11] |
|  | rs2563310 | 0.034 | NA | [12] |
| *CMA1* | rs1800875 | 0.0004 | NA | [13] |
| *CTLA4* | rs231775 | 0.0005 | NA | [14] |
|  | rs5472909 | 0.0047 | NA | [15] |
| *DARC* | rs13962 | 2.21E-11 | NA | [16]‡ |
|  | rs2814778 | 0.017 | NA | [17] |
| *FCER1A* | rs2251746 | 1.85E-20 | 0.515 | [18]‡ |
|  | rs4656784 | 1.68E-16 | NA | [16]‡ |
|  | rs2427827 | 0.001 | NA | [19] |
|  | rs2427837 | 0.014 | NA | [20] |
| *FLG* | 2282del4 | 0.009 | NA | [21] |
|  | rs11584340 | <0.05 | NA | [22] |
| *GSTP1* | rs1695 | 0.02 | 0.911 | [23] |
| *HLA-A* | rs2517754 | 3.61E-09 | NA | [16]‡ |
| *HLA-C* | rs3130941 | 1.07E-10 | NA | Current study‡ |
| *HLA-DQA2* | rs2858331 | 1.44E-08 | 0.000217 | [16]‡ |
| *HLA-DQB1* | DQB1\*0301 | 0.008 | NA | [24] |
|  | rs1063355 | 0.01 | 0.000216 | [25] |
| *HLA-DRB1* | rs9271300 | 8.3E-15 | 0.0813 | [26]‡ |
|  | DRB1\*07 | ＜0.0001 | NA | [27] |
|  | DRB1\*01 | ＜0.004 | NA | [28] |
|  | DRB1\*14 | 0.02 | NA | [24] |
| *HLA-G* | rs2523809 | 4.34E-08 | 0.707 | [16]‡ |
| *IFNG* | (CA)n intron 1 | 0.0001 | NA | [29] |
|  | rs2430561 | <0.001 | NA | [30] |
| *IL4* | rs2070874 | 0.0001 | NA | [31] |
|  | rs2243290 | 0.0005 | 0.00342† | [32] |
|  | rs2243250 | 0.001 | NA | [33] |
| *IL4R* | rs1805010 | 0.0021 | NA | [34] |
|  | rs1801275 | 0.02 | 0.948 | [35] |
| *IL10* | rs1800872 | <0.001 | NA | [36] |
| *IL13* | rs20541 | 0.00002 | 0.0819 | [37] |
|  | rs1881457 | 0.00002 | NA | [38] |
|  | rs1295685 | <0.0001 | NA | [39] |
|  | rs848 | <0.0001 | NA | [39] |
|  | rs1295686 | 0.00022 | 0.0741 | [40] |
|  | rs1800925 | 0.0002 | NA | [41] |
| *LTA* | rs909253 | 0.0032 | NA | [42] |
| *MS4A2* | rs1441586 | 0.0004 | NA | [43] |
|  | rs569108 | <0.001 | NA | [44] |
|  | Rsa I-In2 | 0.04 | NA | [24] |
| *NOD2* | rs2066845 | 0.006 | NA | [45] |
|  | rs5743293 | 0.009 | NA | [46] |
| *NOS1* | rs2682826 | <0.01 | 0.320 | [47] |
|  | (AAT)n intron 20 | 0.015 | NA | [48] |
| *NPSR1* | rs323922 | 0.004 | NA | [49] |
|  | rs740347 | 0.001 | NA | [50] |
|  | SNP546333 | 0.015 | NA | [51] |
| *RAD50* | rs2040704 | 4.46E-08 | NA | [18]‡ |
| *SOBP* | rs7751374 | 3.68E-08 | 0.242 | [52]‡ |
| *STAT6* | rs1059513 | 1.99E-12 | 0.658 | [16]‡ |
|  | rs12368672 | 1.52E-05 | NA | [18]‡ |
|  | rs11172106 | 0.004 | NA | [53] |
|  | 1570C/T | 0.007 | NA | [54] |
|  | (GT)n exon 1 | <0.01 | NA | [55] |
|  | rs324011 | 0.015 | NA | [56] |
|  | rs324015 | 0.042 | 0.348 | [57] |
| *TBX18* | rs10944017 | 3.88E-08 | NA | [52]‡ |
| *TLR2* | rs4696480 | 0.01 | NA | [58] |
|  | rs5743708 | 0.04 | NA | [59] |
| *TNF* | rs1800630 | 0.0024 | NA | [60] |
|  | rs361525 | <0.05 | NA | [61] |
|  | rs1800629 | <0.05 | NA | [61] |

The most significant *P* value in each study is shown.

\**P* value in our primary GWAS. ‡GWAS. †The direction of the effect was opposite.

NA = not applicable.

**Table S3 references**

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