|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental Table 1. Summary of genes and tagSNPs analyzed. | | | | |  |  |  |  |  |
|  |  | Chromosome |  |  | Major/Minor | MAF | | FDR HWE p | |
| Gene | Alias | Location | tagSNP | Coordinate | Allele | NHW | HISP/NA | NHW | HISP/NA |
| *JAK1* | JAK1A, JAK1B | 1p32.3-p31.3 | rs2780890 | 65301490 | A/G | 0.57 | 0.33 | 0.98 | 0.70 |
|  |  |  | rs2254002 | 65301669 | G/T | 0.36 | 0.51 | 0.96 | 0.18 |
|  |  |  | rs310245 | 65306182 | C/T | 0.36 | 0.51 | 0.96 | 0.16 |
|  |  |  | rs4916005 | 65309387 | T/C | 0.13 | 0.26 | 0.96 | 0.78 |
|  |  |  | rs310211 | 65319920 | A/G | 0.31 | 0.50 | 0.96 | 1.00 |
|  |  |  | rs2256298 | 65330682 | C/T | 0.25 | 0.44 | 1.00 | 0.87 |
|  |  |  | rs3790541 | 65341567 | C/T | 0.12 | 0.17 | 0.98 | 0.52 |
|  |  |  | rs310201 | 65349608 | T/C | 0.22 | 0.42 | 0.96 | 0.67 |
|  |  |  | rs310199 | 65350122 | T/C | 0.29 | 0.59 | 1.00 | 0.39 |
|  |  |  | rs310198 | 65351068 | C/T | 0.10 | 0.25 | 0.90 | 0.88 |
| *JAK2* |  | 9p24 | rs10758669 | 4981602 | A/C | 0.34 | 0.41 | 0.97 | 0.29 |
|  |  |  | rs1887429 | 4984549 | G/T | 0.27 | 0.22 | 0.96 | 0.59 |
|  |  |  | rs2274471 | 4985879 | T/C | 0.25 | 0.18 | 0.86 | 0.57 |
|  |  |  | rs7849191 | 4988761 | C/T | 0.40 | 0.40 | 0.96 | 0.70 |
|  |  |  | rs10974916 | 5017350 | G/A | 0.29 | 0.31 | 0.96 | 0.92 |
|  |  |  | rs7043371 | 5040203 | A/T | 0.48 | 0.50 | 0.96 | 0.36 |
|  |  |  | rs1536800 | 5055434 | C/T | 0.24 | 0.26 | 0.93 | 0.78 |
|  |  |  | rs10974947 | 5072846 | G/A | 0.26 | 0.18 | 0.96 | 0.68 |
|  |  |  | rs3780379 | 5112519 | G/A | 0.20 | 0.15 | 0.97 | 0.93 |
|  |  |  | rs3780381 | 5114523 | A/C | 0.28 | 0.30 | 0.96 | 0.57 |
|  |  |  | rs10815160 | 5116616 | T/G | 0.25 | 0.33 | 1.00 | 0.88 |
| *SOCS1* | CIS1, CISH1, JAB, SOCS-1, | 16p13.13 | rs4780355 | 11347858 | C/T | 0.68 | 0.35 | 0.97 | 0.00 |
|  | SSI-1, SSI1, TIP3 |  | rs193779 | 11350965 | G/A | 0.23 | 0.15 | 0.96 | 0.02 |
| *SOCS2* | CIS2, Cish2, SOCS-2, | 12q | rs1498708 | 93963964 | G/A | 0.14 | 0.21 | 0.66 | 0.91 |
|  | SSI-2, SSI2, STATI2 |  | rs2072593 | 93970026 | T/C | 0.19 | 0.30 | 0.96 | 1.00 |
|  |  |  | rs3816997 | 93970786 | T/G | 0.15 | 0.21 | 0.86 | 0.85 |
| *STAT1* | DKFZp686B04100, | 2q32.2 | rs1400657 | 191833540 | A/C | 0.10 | 0.09 | 0.86 | 0.93 |
|  | ISGF-3, STAT91 |  | rs3771300 | 191835596 | C/A | 0.50 | 0.36 | 0.93 | 0.79 |
|  |  |  | rs16824035 | 191837634 | C/T | 0.15 | 0.16 | 0.96 | 0.56 |
|  |  |  | rs11894425 | 191837841 | T/C | 0.40 | 0.28 | 0.96 | 0.55 |
|  |  |  | rs1547550 | 191845725 | G/C | 0.35 | 0.59 | 0.96 | 0.30 |
|  |  |  | rs4327257 | 191846137 | A/C | 0.13 | 0.06 | 0.96 | 0.46 |
|  |  |  | rs2280234 | 191850099 | T/C | 0.62 | 0.38 | 0.98 | 0.78 |
|  |  |  | rs2280233 | 191850566 | A/G | 0.47 | 0.25 | 0.92 | 0.93 |
|  |  |  | rs2280232 | 191850766 | T/G | 0.25 | 0.34 | 0.89 | 0.39 |
|  |  |  | rs11887698 | 191854874 | A/G | 0.16 | 0.48 | 0.97 | 0.57 |
|  |  |  | rs7562024 | 191855521 | T/C | 0.60 | 0.33 | 0.96 | 0.29 |
|  |  |  | rs13029247 | 191866658 | T/C | 0.30 | 0.18 | 0.97 | 0.64 |
|  |  |  | rs2030171 | 191869163 | G/A | 0.34 | 0.57 | 0.98 | 0.50 |
|  |  |  | rs10199181 | 191873553 | A/T | 0.38 | 0.43 | 0.98 | 0.67 |
|  |  |  | rs10208033 | 191879417 | T/C | 0.41 | 0.52 | 0.68 | 0.95 |
| *STAT2* | ISGF-3, MGC59816, | 12q13.2 | rs2066808 | 56737973 | T/C | 0.07 | 0.08 | 0.96 | 0.88 |
|  | P113, STAT113 |  | rs2066807 | 56740682 | G/C | 0.06 | 0.05 | 0.96 | 0.91 |
| *STAT3* | APRF, FLJ20882, | 17q21.31 | rs1053005 | 40465910 | A/G | 0.19 | 0.12 | 0.86 | 0.93 |
|  | MGC16063 |  | rs8069645 | 40494902 | A/G | 0.28 | 0.17 | 0.96 | 0.81 |
|  |  |  | rs6503695 | 40499533 | T/C | 0.35 | 0.19 | 0.93 | 0.99 |
|  |  |  | rs12949918 | 40526273 | T/C | 0.42 | 0.22 | 0.89 | 0.72 |
|  |  |  | rs1026916 | 40529835 | G/A | 0.35 | 0.23 | 0.92 | 0.44 |
| *STAT4* |  | 2q32.2-q32.3 | rs3024912 | 191893087 | T/G | 0.23 | 0.16 | 0.96 | 0.95 |
|  |  |  | rs3024904 | 191895202 | A/T | 0.11 | 0.13 | 0.96 | 0.43 |
|  |  |  | rs3024896 | 191896716 | G/A | 0.19 | 0.12 | 0.98 | 0.83 |
|  |  |  | rs925847 | 191897540 | C/T | 0.27 | 0.26 | 0.86 | 0.93 |
|  |  |  | rs7574608 | 191909864 | A/T | 0.06 | 0.06 | 0.93 | 0.57 |
|  |  |  | rs16833215 | 191913799 | A/G | 0.29 | 0.58 | 0.98 | 0.78 |
|  |  |  | rs4853540 | 191917317 | G/T | 0.21 | 0.21 | 0.96 | 0.27 |
|  |  |  | rs3024861 | 191924606 | T/A | 0.26 | 0.47 | 0.96 | 0.85 |
|  |  |  | rs10168266 | 191935804 | C/T | 0.19 | 0.35 | 0.96 | 0.59 |
|  |  |  | rs6434435 | 191953864 | G/A | 0.17 | 0.13 | 0.96 | 0.94 |
|  |  |  | rs16833260 | 191971565 | C/G | 0.33 | 0.47 | 0.96 | 0.83 |
|  |  |  | rs6752770 | 191973563 | A/G | 0.29 | 0.27 | 0.89 | 0.46 |
|  |  |  | rs7599504 | 191976219 | T/C | 0.15 | 0.09 | 1.00 | 0.82 |
|  |  |  | rs4341966 | 191982205 | G/T | 0.21 | 0.13 | 0.96 | 0.30 |
|  |  |  | rs1551443 | 191996518 | C/T | 0.37 | 0.24 | 0.96 | 0.15 |
|  |  |  | rs11685878 | 192009455 | C/T | 0.40 | 0.32 | 0.97 | 0.08 |
|  |  |  | rs4853546 | 192009652 | G/A | 0.33 | 0.29 | 0.96 | 0.05 |
|  |  |  | rs1031508 | 192010211 | C/T | 0.26 | 0.25 | 1.00 | 0.48 |
|  |  |  | rs12327969 | 192010771 | G/C | 0.21 | 0.22 | 1.00 | 0.64 |
|  |  |  | rs7572482 | 192015072 | G/A | 0.34 | 0.31 | 0.96 | 0.45 |
| *STAT5A* | MGF, STAT5 | 17q11.2 | rs7217728 | 40447401 | T/C | 0.29 | 0.16 | 0.99 | 0.76 |
|  |  |  | rs12601982 | 40461674 | A/G | 0.17 | 0.09 | 0.86 | 0.79 |
| *STAT5B* | STAT5 | 17q11.2 | rs9900213 | 40375881 | G/T | 0.15 | 0.10 | 0.86 | 0.69 |
|  |  |  | rs6503691 | 40394090 | C/T | 0.11 | 0.10 | 1.00 | 0.54 |
|  |  |  | rs7218653 | 40425320 | A/G | 0.30 | 0.16 | 0.97 | 0.67 |
| *STAT6* | D12S1644, IL-4-STAT, | 12q13 | rs3024979 | 57488293 | T/A | 0.10 | 0.06 | 0.54 | 0.51 |
|  | STAT6B, STAT6C |  | rs324015 | 57490100 | G/A | 0.23 | 0.29 | 1.00 | 0.52 |
|  |  |  | rs3024974 | 57492745 | C/T | 0.10 | 0.09 | 1.00 | 0.01 |
|  |  |  | rs324011 | 57502182 | C/T | 0.40 | 0.41 | 0.89 | 0.39 |
|  |  |  | rs167769 | 57503775 | C/T | 0.39 | 0.40 | 0.86 | 0.42 |
|  |  |  | rs12368672 | 57512470 | C/G | 0.40 | 0.45 | 0.96 | 0.88 |
| *TYK2* | JTK1 | 19p13.2 | rs12720356 | 10469975 | T/G | 0.10 | 0.04 | 0.96 | 0.79 |
|  |  |  | rs280519 | 10472933 | A/G | 0.51 | 0.35 | 0.82 | 0.95 |
|  |  |  | rs280521 | 10473392 | G/A | 0.14 | 0.08 | 1.00 | 0.85 |
|  |  |  | rs280500 | 10490402 | A/G | 0.15 | 0.09 | 0.98 | 0.78 |
| Minor Allele Frequency (MAF) and False Discovery Rate (FDR) adjusted Hardy-Weinberg Equilibrium p value (FDR HWE p) based on control population. | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Supplemental Table 2. R2 values for SNPs within genes | | | | | |  |  |  |  |  |  |  |
| ***JAK1*** |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2254002 | **0.76** |  |  |  |  |  |  |  |  |  |  |
|  | rs310245 | **0.71** | 0.94 |  |  |  |  |  |  |  |  |  |
|  | rs4916005 | 0.18 | 0.24 | 0.27 |  |  |  |  |  |  |  |  |
|  | rs310211 | 0.57 | 0.33 | 0.34 | 0.34 |  |  |  |  |  |  |  |
|  | rs2256298 | 0.41 | 0.17 | 0.19 | 0.07 | **0.74** |  |  |  |  |  |  |
|  | rs3790541 | 0.16 | 0.21 | 0.23 | 0.02 | 0.06 | 0.04 |  |  |  |  |  |
|  | rs310201 | 0.34 | 0.45 | 0.47 | 0.27 | 0.04 | 0.00 | 0.43 |  |  |  |  |
|  | rs310199 | 0.42 | 0.23 | 0.24 | 0.16 | 0.14 | 0.03 | 0.26 | **0.65** |  |  |  |
|  | rs310198 | 0.15 | 0.20 | 0.20 | **0.68** | 0.25 | 0.02 | 0.02 | 0.41 | 0.28 |  |  |
|  |  | rs2780890 | rs2254002 | rs310245 | rs4916005 | rs310211 | rs2256298 | rs3790541 | rs310201 | rs310199 |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2254002 | 0.51 |  |  |  |  |  |  |  |  |  |  |
|  | rs310245 | 0.48 | 0.95 |  |  |  |  |  |  |  |  |  |
|  | rs4916005 | 0.15 | 0.31 | 0.33 |  |  |  |  |  |  |  |  |
|  | rs310211 | 0.45 | 0.12 | 0.13 | 0.36 |  |  |  |  |  |  |  |
|  | rs2256298 | 0.37 | 0.05 | 0.06 | 0.18 | 0.81 |  |  |  |  |  |  |
|  | rs3790541 | 0.10 | 0.19 | 0.19 | 0.07 | 0.20 | 0.17 |  |  |  |  |  |
|  | rs310201 | 0.32 | **0.63** | **0.64** | 0.28 | 0.03 | 0.00 | 0.27 |  |  |  |  |
|  | rs310199 | 0.54 | 0.19 | 0.19 | 0.10 | 0.19 | 0.13 | 0.12 | 0.49 |  |  |  |
|  | rs310198 | 0.14 | 0.29 | 0.30 | **0.71** | 0.32 | 0.15 | 0.07 | 0.45 | 0.23 |  |  |
|  |  | rs2780890 | rs2254002 | rs310245 | rs4916005 | rs310211 | rs2256298 | rs3790541 | rs310201 | rs310199 |  |  |
| ***JAK2*** |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs1887429 | 0.19 |  |  |  |  |  |  |  |  |  |  |
|  | rs2274471 | 0.11 | 0.59 |  |  |  |  |  |  |  |  |  |
|  | rs7849191 | 0.30 | 0.06 | 0.19 |  |  |  |  |  |  |  |  |
|  | rs10974916 | 0.49 | 0.11 | 0.11 | 0.21 |  |  |  |  |  |  |  |
|  | rs7043371 | 0.15 | 0.10 | 0.08 | 0.43 | 0.33 |  |  |  |  |  |  |
|  | rs1536800 | 0.37 | 0.08 | 0.06 | 0.20 | **0.70** | 0.25 |  |  |  |  |  |
|  | rs10974947 | 0.08 | 0.38 | 0.42 | 0.05 | 0.14 | 0.16 | 0.11 |  |  |  |  |
|  | rs3780379 | 0.06 | 0.38 | 0.58 | 0.16 | 0.09 | 0.21 | 0.08 | **0.69** |  |  |  |
|  | rs3780381 | 0.45 | 0.12 | 0.11 | 0.20 | 0.86 | 0.30 | **0.70** | 0.13 | 0.10 |  |  |
|  | rs10815160 | 0.08 | 0.50 | 0.44 | 0.06 | 0.10 | 0.26 | 0.10 | **0.69** | **0.76** | 0.13 |  |
|  |  | rs10758669 | rs1887429 | rs2274471 | rs7849191 | rs10974916 | rs7043371 | rs1536800 | rs10974947 | rs3780379 | rs3780381 | |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs1887429 | 0.19 |  |  |  |  |  |  |  |  |  |  |
|  | rs2274471 | 0.10 | 0.59 |  |  |  |  |  |  |  |  |  |
|  | rs7849191 | 0.39 | 0.03 | 0.13 |  |  |  |  |  |  |  |  |
|  | rs10974916 | 0.37 | 0.07 | 0.08 | 0.19 |  |  |  |  |  |  |  |
|  | rs7043371 | 0.11 | 0.12 | 0.09 | 0.34 | 0.42 |  |  |  |  |  |  |
|  | rs1536800 | 0.33 | 0.07 | 0.06 | 0.22 | **0.70** | 0.32 |  |  |  |  |  |
|  | rs10974947 | 0.07 | 0.45 | 0.57 | 0.06 | 0.10 | 0.16 | 0.07 |  |  |  |  |
|  | rs3780379 | 0.05 | 0.39 | **0.65** | 0.11 | 0.08 | 0.16 | 0.06 | 0.81 |  |  |  |
|  | rs3780381 | 0.36 | 0.09 | 0.08 | 0.22 | **0.79** | 0.36 | **0.76** | 0.09 | 0.08 |  |  |
|  | rs10815160 | 0.19 | 0.27 | 0.24 | 0.03 | 0.14 | 0.03 | 0.17 | 0.40 | 0.36 | 0.21 |  |
|  |  | rs10758669 | rs1887429 | rs2274471 | rs7849191 | rs10974916 | rs7043371 | rs1536800 | rs10974947 | rs3780379 | rs3780381 | |
| ***SOCS1*** |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs193779 | 0.11 |  |  |  |  |  |  |  |  |  |  |
|  |  | rs4780355 | |  |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs193779 | 0.16 |  |  |  |  |  |  |  |  |  |  |
|  |  | rs4780355 | |  |  |  |  |  |  |  |  |  |
| ***SOCS2*** |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2072593 | 0.04 |  |  |  |  |  |  |  |  |  |  |
|  | rs3816997 | 0.87 | 0.04 |  |  |  |  |  |  |  |  |  |
|  |  | rs1498708 | rs2072593 | |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2072593 | 0.12 |  |  |  |  |  |  |  |  |  |  |
|  | rs3816997 | 0.96 | 0.12 |  |  |  |  |  |  |  |  |  |
|  |  | rs1498708 | rs2072593 | |  |  |  |  |  |  |  |  |
| ***STAT1*** |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs11894425 | **0.67** | 0.27 |  |  |  |  |  |  |  |  |  |
|  | rs1547550 | 0.34 | 0.01 |  |  |  |  |  |  |  |  |  |
|  | rs4327257 | 0.13 | **0.74** | 0.02 |  |  |  |  |  |  |  |  |
|  | rs2280234 | 0.39 | 0.09 | **0.61** | 0.09 |  |  |  |  |  |  |  |
|  | rs2280233 | **0.80** | 0.14 | 0.41 | 0.12 | 0.54 |  |  |  |  |  |  |
|  | rs2280232 | 0.29 | 0.47 | 0.00 | 0.42 | 0.00 | 0.29 |  |  |  |  |  |
|  | rs7562024 | 0.39 | 0.01 | 0.45 | 0.05 | **0.72** | 0.53 | 0.03 |  |  |  |  |
|  | rs13029247 | 0.34 | 0.02 | 0.23 | 0.03 | 0.24 | 0.33 | 0.01 | 0.24 |  |  |  |
|  | rs2030171 | 0.36 | 0.05 | 0.23 | 0.02 | 0.21 | 0.36 | 0.04 | 0.28 | 0.87 |  |  |
|  | rs10199181 | 0.34 | 0.03 | 0.32 | 0.01 | 0.32 | 0.45 | 0.02 | 0.41 | **0.71** | **0.76** |  |
|  | rs10208033 | 0.46 | 0.03 | 0.23 | 0.02 | 0.30 | 0.45 | 0.16 | 0.42 | 0.57 | **0.64** | 0.47 |
|  |  | rs3771300 | rs16824035 | rs1547550 | rs4327257 | rs2280234 | rs2280233 | rs2280232 | rs7562024 | rs13029247 | rs2030171 | rs10199181 |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs11894425 | **0.66** |  |  |  |  |  |  |  |  |  |  |
|  | rs1547550 | 0.00 | 0.03 |  |  |  |  |  |  |  |  |  |
|  | rs4327257 | 0.11 | 0.34 | 0.03 |  |  |  |  |  |  |  |  |
|  | rs2280234 | 0.00 | 0.10 | **0.61** | 0.11 |  |  |  |  |  |  |  |
|  | rs2280233 | 0.14 | 0.05 | 0.41 | 0.02 | 0.56 |  |  |  |  |  |  |
|  | rs2280232 | 0.07 | 0.16 | 0.00 | 0.11 | 0.00 | 0.17 |  |  |  |  |  |
|  | rs7562024 | 0.01 | 0.01 | 0.43 | 0.09 | **0.64** | **0.62** | 0.04 |  |  |  |  |
|  | rs13029247 | 0.23 | 0.01 | 0.00 | 0.11 | 0.00 | 0.04 | 0.00 | 0.00 |  |  |  |
|  | rs2030171 | 0.01 | 0.03 | 0.21 | 0.00 | 0.17 | 0.36 | 0.07 | 0.31 | 0.17 |  |  |
|  | rs10199181 | 0.10 | 0.03 | 0.05 | 0.02 | 0.05 | 0.20 | 0.19 | 0.11 | 0.29 | 0.31 |  |
|  | rs10208033 | 0.10 | 0.02 | 0.05 | 0.01 | 0.08 | 0.21 | 0.25 | 0.15 | 0.17 | 0.13 | 0.37 |
|  |  | rs3771300 | rs16824035 | rs1547550 | rs4327257 | rs2280234 | rs2280233 | rs2280232 | rs7562024 | rs13029247 | rs2030171 | rs10199181 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT2*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2066807 | 0.94 |  |  |  |  |  |  |  |  |  |  |
|  |  | rs2066808 | |  |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs2066807 | **0.60** |  |  |  |  |  |  |  |  |  |  |
|  |  | rs2066808 | |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT3*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs8069645 | 0.41 |  |  |  |  |  |  |  |  |  |  |
|  | rs6503695 | 0.28 | **0.71** |  |  |  |  |  |  |  |  |  |
|  | rs12949918 | 0.21 | 0.53 | **0.75** |  |  |  |  |  |  |  |  |
|  | rs1026916 | 0.30 | **0.71** | 0.47 | **0.72** |  |  |  |  |  |  |  |
|  |  | rs1053005 | rs8069645 | rs6503695 | rs12949918 | |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs8069645 | 0.39 |  |  |  |  |  |  |  |  |  |  |
|  | rs6503695 | 0.35 | 0.91 |  |  |  |  |  |  |  |  |  |
|  | rs12949918 | 0.28 | **0.73** | 0.80 |  |  |  |  |  |  |  |  |
|  | rs1026916 | 0.35 | **0.70** | **0.63** | 0.81 |  |  |  |  |  |  |  |
|  |  | rs1053005 | rs8069645 | rs6503695 | rs12949918 | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT4*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs3024896 | **0.78** |  |  |  |  |  |  |  |  |  |  |
|  | rs925847 | 0.48 | 0.59 |  |  |  |  |  |  |  |  |  |
|  | rs10168266 | 0.25 | 0.31 | 0.53 | **0.65** |  |  |  |  |  |  |  |
|  | rs16833260 | 0.14 | 0.17 | 0.20 | 0.53 |  |  |  |  |  |  |  |
|  | rs4341966 | 0.03 | 0.04 | 0.02 | 0.07 | 0.53 |  |  |  |  |  |  |
|  | rs1551443 | 0.04 | 0.06 | 0.09 | 0.07 | 0.25 |  |  |  |  |  |  |
|  | rs11685878 | 0.02 | 0.03 | 0.01 | 0.02 | 0.04 |  |  |  |  |  |  |
|  | rs4853546 | 0.02 | 0.02 | 0.02 | 0.01 | 0.03 | **0.66** |  |  |  |  |  |
|  | rs1031508 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | **0.71** |  |  |  |  |
|  | rs12327969 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.33 | 0.53 | **0.74** |  |  |  |
|  | rs7572482 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | **0.69** | 0.45 | **0.68** | 0.50 |  |  |
|  |  | rs3024912 | rs3024896 | rs16833215 | rs3024861 | rs6752770 | rs11685878 | rs4853546 | rs1031508 | rs12327969 | |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs3024896 | **0.69** |  |  |  |  |  |  |  |  |  |  |
|  | rs16833260 | 0.01 | **0.63** | 0.53 |  |  |  |  |  |  |  |  |
|  | rs4853546 | 0.04 | 0.00 | 0.00 | **0.64** |  |  |  |  |  |  |  |
|  | rs1031508 | 0.01 | 0.00 | 0.00 | 0.48 | **0.79** |  |  |  |  |  |  |
|  | rs12327969 | 0.01 | 0.01 | 0.00 | 0.34 | **0.61** | **0.78** |  |  |  |  |  |
|  | rs7572482 | 0.01 | 0.00 | 0.00 | **0.67** | 0.57 | **0.74** | **0.60** |  |  |  |  |
|  |  | rs3024912 | rs4853540 | rs3024861 | rs1551443 | rs11685878 | rs4853546 | rs1031508 | rs12327969 | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT5A*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs12601982 | 0.43 |  |  |  |  |  |  |  |  |  |  |
|  |  | rs7217728 | |  |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs12601982 | 0.47 |  |  |  |  |  |  |  |  |  |  |
|  |  | rs7217728 | |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT5B*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs6503691 | 0.43 |  |  |  |  |  |  |  |  |  |  |
|  | rs7218653 | 0.08 | 0.17 |  |  |  |  |  |  |  |  |  |
|  |  | rs9900213 | rs6503691 | |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs6503691 | **0.64** |  |  |  |  |  |  |  |  |  |  |
|  | rs7218653 | 0.29 | 0.38 |  |  |  |  |  |  |  |  |  |
|  |  | rs9900213 | rs6503691 | |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***STAT6*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs324015 | 0.03 |  |  |  |  |  |  |  |  |  |  |
|  | rs3024974 | 0.01 | 0.03 |  |  |  |  |  |  |  |  |  |
|  | rs324011 | 0.07 | 0.19 | 0.07 |  |  |  |  |  |  |  |  |
|  | rs167769 | 0.06 | 0.17 | 0.07 | 0.92 |  |  |  |  |  |  |  |
|  | rs12368672 | 0.04 | 0.16 | 0.06 | 0.82 | 0.90 |  |  |  |  |  |  |
|  |  | rs3024979 | rs324015 | rs3024974 | rs324011 | rs167769 |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs324015 | 0.03 |  |  |  |  |  |  |  |  |  |  |
|  | rs3024974 | 0.01 | 0.04 |  |  |  |  |  |  |  |  |  |
|  | rs324011 | 0.05 | 0.26 | 0.05 |  |  |  |  |  |  |  |  |
|  | rs167769 | 0.05 | 0.25 | 0.04 | 0.95 |  |  |  |  |  |  |  |
|  | rs12368672 | 0.04 | 0.09 | 0.06 | **0.68** | **0.72** |  |  |  |  |  |  |
|  |  | rs3024979 | rs324015 | rs3024974 | rs324011 | rs167769 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***TYK2*** | **NHW** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs280519 | 0.10 |  |  |  |  |  |  |  |  |  |  |
|  | rs280521 | 0.02 | 0.16 |  |  |  |  |  |  |  |  |  |
|  | rs280500 | 0.02 | 0.17 | 0.22 |  |  |  |  |  |  |  |  |
|  |  | rs12720356 | rs280519 | rs280521 |  |  |  |  |  |  |  |  |
|  | **HISP/NA** |  |  |  |  |  |  |  |  |  |  |  |
|  | rs280519 | 0.08 |  |  |  |  |  |  |  |  |  |  |
|  | rs280521 | 0.00 | 0.16 |  |  |  |  |  |  |  |  |  |
|  | rs280500 | 0.00 | 0.18 | 0.18 |  |  |  |  |  |  |  |  |
|  |  | rs12720356 | rs280519 | rs280521 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |