|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Supplementary Table1. The imputation results of MMD in the region of HLA** | | | | | |
| **varients** | **A1/A2** | **Frequency of A1** | | **P** | **OR(95%CI)** |
|  |  | **Cases** | **Controls** |  |  |
| rs3129731 | T/G | 0.26 | 0.17 | 3.69E-16 | 1.79(1.55-2.06) |
| HLA-B amino acid Ala 24 | A/P | 0.57 | 0.45 | 3.48E-14 | 1.58(1.41-1.78) |
| rs713031 | A/P | 0.57 | 0.45 | 3.48E-14 | 1.58(1.41-1.78) |
| rs2516677 | A/C | 0.40 | 0.29 | 9.57E-14 | 1.60(1.41-1.81) |
| rs2187974 | C/T | 0.40 | 0.29 | 1.27E-13 | 1.59(1.41-1.80) |
| rs2524182 | T/A | 0.40 | 0.29 | 1.27E-13 | 1.59(1.41-1.80) |
| rs2524179 | T/C | 0.40 | 0.29 | 1.27E-13 | 1.59(1.41-1.80) |
| rs1049130 | A/G | 0.31 | 0.22 | 8.23E-13 | 1.62(1.42-1.85) |
| rs10947158 | A/G | 0.09 | 0.17 | 7.33E-12 | 0.52(0.43-0.63) |
| chr6:31213543 | G/T | 0.09 | 0.17 | 8.41E-12 | 0.52(0.43-0.63) |
| HLA-DRB1 amino acid Trp 9 | P/A | 0.35 | 0.25 | 8.52E-12 | 1.56(1.37-1.77) |
| rs9269958 | C/T | 0.35 | 0.25 | 8.52E-12 | 1.56(1.37-1.77) |
| rs9269959 | P/A | 0.35 | 0.25 | 8.52E-12 | 1.56(1.37-1.77) |
| rs9269960 | G/A | 0.35 | 0.25 | 8.52E-12 | 1.56(1.37-1.77) |
| HLA-B amino acid Ile 66 | A/P | 0.12 | 0.20 | 1.17E-11 | 0.56(0.47-0.66) |
| rs1131202 | T/A | 0.12 | 0.20 | 1.17E-11 | 0.56(0.47-0.66) |
| rs1071817 | A/P | 0.21 | 0.30 | 1.20E-11 | 0.62(0.54-0.71) |
| rs9271348 | G/A | 0.29 | 0.20 | 1.67E-11 | 1.59(1.39-1.82) |
| HLA-B amino acid Ser 325 | A/P | 0.47 | 0.37 | 1.77E-11 | 1.51(1.34-1.70) |
| HLA-B amino acid Cys 325 | P/A | 0.47 | 0.37 | 1.77E-11 | 1.51(1.34-1.70) |
| rs2308655 | C/G | 0.47 | 0.37 | 1.77E-11 | 1.51(1.34-1.70) |
| rs3130127 | A/T | 0.57 | 0.47 | 1.95E-11 | 1.50(1.33-1.69) |
| rs547402090 | A/G | 0.25 | 0.35 | 2.02E-11 | 0.64(0.56-0.73) |
| rs9348874 | T/G | 0.07 | 0.13 | 2.75E-11 | 0.48(0.39-0.60) |
| rs9378228 | T/G | 0.09 | 0.16 | 3.25E-11 | 0.52(0.43-0.63) |
| rs12524692 | A/T | 0.09 | 0.16 | 3.90E-11 | 0.52(0.43-0.64) |
| HLA-B\*46 | P/A | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| HLA-B\*46:01 | P/A | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| HLA-B amino acid 76 | V/E | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| rs41553715 | A/T | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| HLA-B amino acid Arg 69 | P/A | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| rs41546313 | C/G | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| rs1131204 | P/A | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| rs707909 | C/G | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| HLA-B amino acid Lys 66 | P/A | 0.07 | 0.14 | 4.12E-11 | 0.49(0.40-0.61) |
| rs4361609 | C/G | 0.19 | 0.28 | 4.84E-11 | 0.62(0.53-0.71) |
| rs2523545 | G/A | 0.19 | 0.12 | 5.68E-11 | 1.70(1.45-2.00) |
| rs141618471 | G/A | 0.09 | 0.16 | 5.84E-11 | 0.53(0.43-0.64) |
| rs9380178 | T/C | 0.20 | 0.29 | 7.74E-11 | 0.62(0.54-0.72) |
| rs1264531 | G/T | 0.45 | 0.35 | 1.03E-10 | 1.49(1.32-1.67) |
| rs1264540 | G/C | 0.45 | 0.35 | 1.23E-10 | 1.48(1.31-1.67) |
| rs1264537 | A/T | 0.45 | 0.35 | 1.30E-10 | 1.48(1.31-1.67) |
| rs16897572 | T/C | 0.25 | 0.34 | 1.36E-10 | 0.65(0.57-0.74) |
| rs1264538 | C/T | 0.45 | 0.35 | 1.46E-10 | 1.48(1.31-1.67) |
| HLA-C amino acid Tyr 99 | A/P | 0.38 | 0.47 | 1.46E-10 | 0.67(0.60-0.76) |
| rs1131115 | A/P | 0.38 | 0.47 | 1.46E-10 | 0.67(0.60-0.76) |
| rs78860372 | T/A | 0.21 | 0.30 | 1.49E-10 | 0.63(0.55-0.73) |
| rs1639106 | T/C | 0.10 | 0.17 | 1.74E-10 | 0.55(0.45-0.66) |
| HLA-B amino acid Val 282 | P/A | 0.51 | 0.42 | 1.77E-10 | 1.47(1.31-1.66) |
| HLA-B amino acid Ile 282 | A/P | 0.51 | 0.42 | 1.77E-10 | 1.47(1.31-1.66) |
| rs1131500 | C/T | 0.51 | 0.42 | 1.77E-10 | 1.47(1.31-1.66) |
| rs9368655 | C/G | 0.19 | 0.27 | 1.89E-10 | 0.62(0.54-0.72) |
| rs1268445 | C/G | 0.45 | 0.35 | 1.95E-10 | 1.48(1.31-1.66) |
| HLA-B amino acid | A/T | 0.24 | 0.32 | 2.32E-10 | 0.65(0.56-0.74) |
| rs1131213 | C/T | 0.24 | 0.32 | 2.32E-10 | 0.65(0.56-0.74) |
| HLA-B amino acid Asn 70 | A/P | 0.24 | 0.32 | 2.32E-10 | 0.65(0.56-0.74) |
| HLA-B amino acid Thr 69 | A/P | 0.24 | 0.32 | 2.32E-10 | 0.65(0.56-0.74) |
| rs1131204 | A/P | 0.24 | 0.32 | 2.32E-10 | 0.65(0.56-0.74) |
| rs7771486 | C/G | 0.10 | 0.17 | 2.36E-10 | 0.55(0.46-0.67) |
| rs9405015 | T/C | 0.10 | 0.17 | 2.36E-10 | 0.55(0.46-0.67) |
| rs117333063 | A/C | 0.10 | 0.17 | 2.36E-10 | 0.55(0.46-0.67) |
| rs28483421 | T/C | 0.10 | 0.17 | 2.36E-10 | 0.55(0.46-0.67) |
| rs9380213 | A/G | 0.06 | 0.12 | 2.56E-10 | 0.48(0.38-0.61) |
| rs117588763 | T/C | 0.10 | 0.17 | 2.68E-10 | 0.55(0.64-0.67) |
| rs4713439 | G/A | 0.10 | 0.17 | 2.68E-10 | 0.55(0.64-0.67) |
| rs9357114 | G/T | 0.10 | 0.17 | 2.68E-10 | 0.55(0.64-0.67) |
| rs4122190 | G/A | 0.10 | 0.17 | 2.68E-10 | 0.55(0.64-0.67) |
| rs2844533 | G/A | 0.17 | 0.11 | 3.06E-10 | 1.69(1.44-2.00) |
| HLA-B amino acid Ala 305 | P/A | 0.52 | 0.43 | 3.13E-10 | 1.46(1.30-1.65) |
| HLA-B amino acid Thr 305 | A/P | 0.52 | 0.43 | 3.13E-10 | 1.46(1.30-1.65) |
| rs1051488 | C/T | 0.52 | 0.43 | 3.13E-10 | 1.46(1.30-1.65) |
| rs404890 | A/C | 0.42 | 0.33 | 3.30E-10 | 1.48(1.31-1.67) |
| rs9394023 | A/C | 0.23 | 0.31 | 3.63E-10 | 0.65(0.56-0.74) |
| rs9357105 | A/G | 0.06 | 0.12 | 3.64E-10 | 0.49(0.39-0.61) |
| rs2523570 | T/C | 0.19 | 0.13 | 3.74E-10 | 1.65(1.41-1.93) |
| rs693797 | C/T | 0.42 | 0.33 | 4.14E-10 | 1.47(1.30-1.66) |
| rs978009 | C/T | 0.45 | 0.35 | 4.29E-10 | 1.47(1.30-1.66) |
| rs2894052 | G/C | 0.23 | 0.31 | 4.48E-10 | 0.65(0.56-0.74) |
| rs79592231 | A/G | 0.10 | 0.05 | 4.67E-10 | 2.00(1.60-2.49) |
| HLA-B amino acid Gln 70 | P/A | 0.16 | 0.24 | 4.78E-10 | 0.61(0.52-0.72) |
| rs1071817 | P/A | 0.16 | 0.24 | 4.78E-10 | 0.61(0.52-0.72) |
| rs1150768 | A/G | 0.45 | 0.35 | 4.79E-10 | 1.46(1.30-1.65) |
| rs9391724 | T/C | 0.14 | 0.21 | 5.32E-10 | 0.60(0.51-0.70) |
| rs2523557 | G/A | 0.23 | 0.16 | 5.41E-10 | 1.59(1.37-1.84) |
| rs9501346 | T/C | 0.22 | 0.31 | 5.66E-10 | 0.65(0.56-0.74) |
| rs2596573 | C/T | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs2844537 | C/A | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs9266713 | A/G | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs9266714 | G/A | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs2596569 | C/T | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs2596568 | A/G | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs3094597 | A/G | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs3094596 | T/C | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs1521 | C/T | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| rs1523 | C/A | 0.17 | 0.11 | 6.75E-10 | 1.68(1.42-1.98) |
| HLA-C amino acid Cys 99 | P/A | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs1131115 | P/A | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs281860336 | A/G | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| HLA-C amino acid Phe 9 | P/A | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs1071650 | P/A | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| HLA-C amino acid 6 | K/R | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs1131151 | T/C | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs29029490 | A/C | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs2074494 | T/C | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs9366775 | A/G | 0.13 | 0.20 | 6.83E-10 | 0.59(0.50-0.70) |
| rs117295261 | T/G | 0.06 | 0.11 | 7.88E-10 | 0.48(0.38-0.61) |
| rs13207269 | G/C | 0.23 | 0.31 | 8.42E-10 | 0.65(0.57-0.75) |
| rs9391703 | C/T | 0.23 | 0.31 | 8.42E-10 | 0.65(0.57-0.75) |
| rs9378112 | T/C | 0.23 | 0.31 | 8.47E-10 | 0.65(0.57-0.75) |
| HLA-C amino acid Val 248 | A/P | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| HLA-C amino acid Met 248 | P/A | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| rs1050276 | T/C | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| HLA-C\*01 | P/A | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| HLA-C\*01:02 | P/A | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| rs41544614 | G/C | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| rs9357121 | G/T | 0.13 | 0.20 | 8.67E-10 | 0.59(0.50-0.70) |
| rs4713419 | G/A | 0.23 | 0.31 | 9.42E-10 | 0.65(0.57-0.75) |
| rs9391714 | A/G | 0.13 | 0.20 | 9.95E-10 | 0.59(0.50-0.70) |
| rs9380234 | A/G | 0.13 | 0.20 | 9.95E-10 | 0.59(0.50-0.70) |
| rs12174823 | C/T | 0.24 | 0.32 | 1.00E-09 | 0.66(0.57-0.75) |
| rs9391700 | A/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9378113 | T/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9378151 | A/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9366764 | A/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9380204 | C/T | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9380205 | G/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9380206 | T/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs386698822 | T/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9391701 | A/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs3871466 | C/T | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs3869096 | G/T | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9348848 | T/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9348849 | T/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9394027 | C/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9295941 | A/C | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs9295942 | T/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs4713416 | A/G | 0.23 | 0.31 | 1.04E-09 | 0.65(0.57-0.75) |
| rs142459005 | T/A | 0.08 | 0.14 | 1.10E-09 | 0.53(0.43-0.65) |
| rs4713417 | T/G | 0.23 | 0.31 | 1.15E-09 | 0.65(0.57-0.75) |
| rs4713418 | C/G | 0.23 | 0.31 | 1.15E-09 | 0.65(0.57-0.75) |
| rs1264550 | G/A | 0.45 | 0.36 | 1.15E-09 | 1.45(1.29-1.64) |
| rs1079993 | T/C | 0.45 | 0.36 | 1.15E-09 | 1.45(1.29-1.64) |
| rs573996811 | T/C | 0.23 | 0.31 | 1.16E-09 | 0.65(0.57-0.75) |
| rs9380173 | A/G | 0.24 | 0.33 | 1.21E-09 | 0.66(0.58-0.75) |
| rs2240058 | C/T | 0.24 | 0.33 | 1.21E-09 | 0.66(0.58-0.75) |
| rs3094716 | A/G | 0.47 | 0.38 | 1.26E-09 | 1.45(1.28-1.63) |
| rs1131115 | A/P | 0.25 | 0.33 | 1.26E-09 | 0.66(0.58-0.76) |
| rs72558143 | T/C | 0.25 | 0.33 | 1.26E-09 | 0.66(0.58-0.76) |
| rs1264562 | G/T | 0.45 | 0.36 | 1.29E-09 | 1.45(1.29-1.63) |
| rs1264516 | C/A | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs1264515 | T/A | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs1264513 | G/A | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs2105961 | A/C | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs2524201 | T/C | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs2844730 | G/A | 0.47 | 0.38 | 1.31E-09 | 1.45(1.29-1.63) |
| rs974962 | G/A | 0.24 | 0.33 | 1.32E-09 | 0.66(0.58-0.76) |
| rs62395263 | T/C | 0.23 | 0.32 | 1.35E-09 | 0.66(0.57-0.75) |
| rs2517646 | C/T | 0.28 | 0.21 | 1.46E-09 | 1.52(1.32-1.74) |
| rs72502556 | A/G | 0.25 | 0.33 | 1.55E-09 | 0.66(0.58-0.76) |
| rs2234776 | T/C | 0.25 | 0.33 | 1.55E-09 | 0.66(0.58-0.76) |
| rs41544212 | G/A | 0.25 | 0.33 | 1.55E-09 | 0.66(0.58-0.76) |
| rs9366785 | A/G | 0.07 | 0.13 | 1.58E-09 | 0.51(0.41-0.64) |
| rs9262615 | G/C | 0.18 | 0.25 | 1.69E-09 | 0.63(0.54-0.73) |
| rs3094672 | T/A | 0.25 | 0.34 | 1.85E-09 | 0.67(0.58-0.76) |
| chr6:30420992 | A/G | 0.47 | 0.38 | 2.04E-09 | 1.44(1.28-1.62) |
| rs9357123 | A/G | 0.15 | 0.22 | 2.27E-09 | 0.62(0.53-0.72) |
| rs6919058 | T/C | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs6942380 | G/T | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs9378157 | A/C | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs9295980 | T/A | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs9283890 | C/T | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs9295982 | C/G | 0.14 | 0.21 | 2.34E-09 | 0.61(0.52-0.72) |
| rs74223647 | C/G | 0.12 | 0.07 | 2.43E-09 | 1.80(1.48-2.19) |
| rs3134930 | T/C | 0.38 | 0.29 | 2.54E-09 | 1.46(1.29-1.65) |
| rs60091015 | G/A | 0.14 | 0.21 | 2.62E-09 | 0.61(0.52-0.72) |
| rs4492231 | A/G | 0.14 | 0.21 | 2.62E-09 | 0.61(0.52-0.72) |
| rs115034963 | A/G | 0.14 | 0.21 | 2.62E-09 | 0.61(0.52-0.72) |
| rs115190576 | C/T | 0.14 | 0.21 | 2.62E-09 | 0.61(0.52-0.72) |
| rs72502565 | G/A | 0.14 | 0.21 | 2.62E-09 | 0.61(0.52-0.72) |
| rs9405074 | G/A | 0.13 | 0.20 | 2.67E-09 | 0.61(0.52-0.72) |
| rs67494727 | C/T | 0.13 | 0.20 | 2.67E-09 | 0.61(0.52-0.72) |
| rs72502566 | C/T | 0.14 | 0.21 | 2.94E-09 | 0.61(0.52-0.72) |
| rs9405028 | A/T | 0.13 | 0.20 | 3.03E-09 | 0.61(0.52-0.72) |
| rs6909636 | G/A | 0.52 | 0.43 | 3.73E-09 | 1.43(1.27-1.61) |
| rs6918048 | C/T | 0.13 | 0.20 | 3.76E-09 | 0.61(0.51-0.72) |
| rs9368672 | T/A | 0.13 | 0.20 | 3.76E-09 | 0.61(0.51-0.72) |
| rs1131115 | A/P | 0.26 | 0.34 | 3.82E-09 | 0.67(0.59-0.77) |
| rs7761855 | T/G | 0.14 | 0.21 | 4.13E-09 | 0.61(0.51-0.72) |
| rs56244255 | A/G | 0.14 | 0.21 | 4.13E-09 | 0.61(0.51-0.72) |
| rs9394054 | C/T | 0.14 | 0.21 | 4.13E-09 | 0.61(0.51-0.72) |
| rs9380242 | A/G | 0.14 | 0.21 | 4.13E-09 | 0.61(0.51-0.72) |
| rs9391719 | C/T | 0.14 | 0.21 | 4.13E-09 | 0.61(0.51-0.72) |
| rs2516674 | G/C | 0.47 | 0.38 | 4.31E-09 | 1.43(1.27-1.61) |
| rs915666 | T/C | 0.47 | 0.38 | 4.31E-09 | 1.43(1.27-1.61) |
| rs9268199 | G/A | 0.14 | 0.09 | 4.35E-09 | 1.72(1.43-2.06) |
| rs2523644 | C/T | 0.16 | 0.10 | 4.46E-09 | 1.66(1.40-1.97) |
| chr6:30554190 | A/C | 0.06 | 0.11 | 4.51E-09 | 0.50(0.40-0.63) |
| rs9368647 | A/G | 0.12 | 0.18 | 4.52E-09 | 0.59(0.50-0.71) |
| rs9405046 | C/G | 0.23 | 0.31 | 5.02E-09 | 0.66(0.58-0.76) |
| rs9380182 | C/A | 0.06 | 0.11 | 5.20E-09 | 0.50(0.39-0.63) |
| rs4959066 | G/A | 0.16 | 0.10 | 5.31E-09 | 1.65(1.40-1.96) |
| chr6:31229958 | G/T | 0.14 | 0.20 | 5.51E-09 | 0.61(1.52-0.72) |
| HLA-B amino acid Tyr 67 | P/A | 0.18 | 0.26 | 5.60E-09 | 0.64(0.56-0.75) |
| rs1071816 | P/A | 0.18 | 0.26 | 5.60E-09 | 0.64(0.56-0.75) |
| rs10807087 | C/T | 0.14 | 0.21 | 5.65E-09 | 0.61(0.52-0.72) |
| rs12193504 | T/C | 0.10 | 0.06 | 5.70E-09 | 1.86(1.51-2.30) |
| rs13118 | T/A | 0.10 | 0.06 | 5.70E-09 | 1.86(1.51-2.30) |
| chr6:31268950 | T/C | 0.14 | 0.21 | 5.72E-09 | 0.61(0.52-0.72) |
| rs12213612 | A/G | 0.09 | 0.05 | 5.81E-09 | 1.96(1.56-2.47) |
| rs17188632 | T/C | 0.25 | 0.33 | 5.90E-09 | 0.67(0.59-0.77) |
| rs2844670 | G/A | 0.22 | 0.30 | 5.93E-09 | 0.66(0.58-0.76) |
| rs2252937 | C/T | 0.14 | 0.09 | 6.01E-09 | 1.71(1.42-2.05) |
| rs9405076 | C/A | 0.15 | 0.22 | 6.13E-09 | 0.62(0.53-0.73) |
| rs9391803 | A/T | 0.23 | 0.30 | 6.15E-09 | 0.67(0.58-0.76) |
| rs4959017 | A/T | 0.16 | 0.10 | 6.31E-09 | 1.65(1.39-1.96) |
| rs3997982 | T/A | 0.16 | 0.10 | 6.31E-09 | 1.65(1.39-1.96) |
| rs9469079 | T/C | 0.22 | 0.16 | 6.42E-09 | 1.55(1.33-1.79) |
| rs9391834 | A/G | 0.15 | 0.22 | 6.85E-09 | 0.63(0.53-0.73) |
| rs9378199 | C/T | 0.15 | 0.22 | 6.85E-09 | 0.63(0.53-0.73) |
| rs9368668 | C/A | 0.14 | 0.21 | 7.16E-09 | 0.62(0.53-0.73) |
| rs9380231 | C/T | 0.14 | 0.21 | 7.16E-09 | 0.62(0.53-0.73) |
| rs7770635 | A/T | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs77078553 | C/G | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs7750269 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9368673 | C/T | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9368674 | A/G | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| chr6:31272064 | G/T | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9368675 | A/G | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9368678 | C/T | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9394055 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs7760988 | T/C | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9394956 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs7761515 | A/C | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9357125 | T/C | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| chr6:31273609 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9366779 | T/C | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs9394057 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| chr6:31273810 | T/C | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs6930944 | G/A | 0.22 | 0.29 | 7.44E-09 | 0.66(0.58-0.76) |
| rs17882603 | C/T | 0.55 | 0.46 | 7.46E-09 | 1.42(1.26-1.60) |
| rs67497292 | G/A | 0.09 | 0.05 | 7.53E-09 | 1.95(1.55-2.46) |
| rs28600230 | A/G | 0.15 | 0.22 | 7.58E-09 | 0.63(0.53-0.73) |
| rs9368679 | T/C | 0.22 | 0.29 | 8.24E-09 | 0.66(0.58-0.76) |
| rs652888 | G/A | 0.17 | 0.24 | 8.26E-09 | 0.64(0.55-0.75) |
| rs6926927 | A/G | 0.21 | 0.29 | 8.37E-09 | 0.66(0.58-0.76) |
| rs9368648 | C/T | 0.12 | 0.18 | 8.39E-09 | 0.60(0.51-0.72) |
| rs4711250 | C/T | 0.12 | 0.18 | 8.39E-09 | 0.60(0.51-0.72) |
| rs118097312 | C/A | 0.07 | 0.12 | 8.89E-09 | 0.53(0.42-0.66) |
| rs35875104 | C/T | 0.10 | 0.06 | 9.22E-09 | 1.85(1.50-2.29) |
| rs9295937 | A/G | 0.12 | 0.18 | 9.41E-09 | 0.60(0.51-0.72) |
| HLA-C amino acid 11 | S/A | 0.24 | 0.32 | 9.41E-09 | 0.67(0.59-0.77) |
| rs1050445 | A/C | 0.24 | 0.32 | 9.41E-09 | 0.67(0.59-0.77) |
| rs1050446 | T/G | 0.24 | 0.32 | 9.41E-09 | 0.67(0.59-0.77) |
| rs1071650 | A/P | 0.24 | 0.32 | 9.41E-09 | 0.67(0.59-0.77) |
| rs9357124 | A/C | 0.15 | 0.22 | 9.52E-09 | 0.63(0.53-0.74) |
| rs72841870 | C/G | 0.23 | 0.30 | 1.02E-08 | 0.67(0.58-0.77) |
| HLA-B amino acid Ser 116 | P/A | 0.28 | 0.37 | 1.03E-08 | 0.69(0.60-0.78) |
| rs4997052 | P/A | 0.28 | 0.37 | 1.03E-08 | 0.69(0.60-0.78) |
| rs2844477 | T/C | 0.51 | 0.42 | 1.04E-08 | 1.41(1.26-1.59) |
| rs117689957 | G/A | 0.07 | 0.12 | 1.07E-08 | 0.53(0.43-0.66) |
| rs7750695 | A/G | 0.22 | 0.29 | 1.10E-08 | 0.67(0.58-0.77) |
| rs2894196 | A/T | 0.14 | 0.20 | 1.11E-08 | 0.62(0.53-0.73) |
| chr6:31233376 | T/C | 0.14 | 0.20 | 1.12E-08 | 0.62(0.53-0.73) |
| rs56229131 | G/A | 0.14 | 0.20 | 1.12E-08 | 0.62(0.53-0.73) |
| rs75981033 | A/G | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs143548785 | T/C | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs146341946 | G/A | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs72502602 | T/G | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs17201875 | A/G | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs17201882 | A/G | 0.11 | 0.07 | 1.13E-08 | 1.79(1.46-2.19) |
| rs34249798 | T/G | 0.10 | 0.06 | 1.16E-08 | 1.84(1.49-2.28) |
| rs1131212 | C/G | 0.19 | 0.26 | 1.17E-08 | 0.65(0.56-0.76) |
| rs9348844 | G/T | 0.12 | 0.18 | 1.18E-08 | 0.60(0.51-0.72) |
| rs2844472 | A/G | 0.51 | 0.42 | 1.19E-08 | 1.41(1.25-1.59) |
| rs2260000 | A/G | 0.51 | 0.42 | 1.19E-08 | 1.41(1.25-1.59) |
| rs1050326 | G/C | 0.37 | 0.29 | 1.28E-08 | 1.43(1.27-1.62) |
| rs2736172 | C/T | 0.51 | 0.42 | 1.31E-08 | 1.41(1.25-1.59) |
| rs9266596 | G/C | 0.16 | 0.10 | 1.31E-08 | 1.64(1.38-1.95) |
| rs200964566 | C/T | 0.44 | 0.36 | 1.32E-08 | 1.42(1.26-1.60) |
| rs9275292 | C/A | 0.44 | 0.36 | 1.32E-08 | 1.42(1.26-1.60) |
| rs9368677 | A/G | 0.15 | 0.22 | 1.33E-08 | 0.63(0.54-0.74) |
| rs2844552 | G/A | 0.49 | 0.41 | 1.36E-08 | 1.41(1.25-1.59) |
| rs2286654 | T/C | 0.12 | 0.18 | 1.38E-08 | 0.60(0.51-0.72) |
| rs7761068 | A/G | 0.34 | 0.26 | 1.40E-08 | 1.45(1.27-1.64) |
| rs76827949 | G/A | 0.11 | 0.07 | 1.43E-08 | 1.78(1.46-2.18) |
| rs4947337 | C/T | 0.11 | 0.07 | 1.43E-08 | 1.78(1.46-2.18) |
| rs9266361 | A/G | 0.30 | 0.22 | 1.45E-08 | 1.47(1.28-1.68) |
| rs9275224 | A/G | 0.44 | 0.36 | 1.46E-08 | 1.42(1.25-1.60) |
| rs5000633 | C/A | 0.44 | 0.36 | 1.46E-08 | 1.42(1.25-1.60) |
| rs2395522 | A/T | 0.44 | 0.36 | 1.46E-08 | 1.42(1.25-1.60) |
| rs9368680 | C/G | 0.22 | 0.30 | 1.47E-08 | 0.67(0.58-0.77) |
| rs1071816 | A/P | 0.36 | 0.44 | 1.48E-08 | 0.70(0.62-0.79) |
| rs9262634 | G/A | 0.14 | 0.20 | 1.49E-08 | 0.62(0.53-0.73) |
| rs74223626 | C/T | 0.12 | 0.07 | 1.53E-08 | 1.76(1.45-2.15) |
| rs78363691 | C/T | 0.12 | 0.07 | 1.53E-08 | 1.76(1.45-2.15) |
| rs80197836 | G/A | 0.12 | 0.07 | 1.53E-08 | 1.76(1.45-2.15) |
| rs13194087 | A/G | 0.15 | 0.10 | 1.63E-08 | 1.64(1.38-1.96) |
| rs3819294 | A/G | 0.21 | 0.28 | 1.64E-08 | 0.66(0.58-0.77) |
| rs17193012 | T/C | 0.21 | 0.28 | 1.64E-08 | 0.66(0.58-0.77) |
| rs12526858 | C/G | 0.21 | 0.28 | 1.64E-08 | 0.66(0.58-0.77) |
| rs12528645 | C/T | 0.21 | 0.28 | 1.64E-08 | 0.66(0.58-0.77) |
| rs4999717 | T/C | 0.21 | 0.28 | 1.64E-08 | 0.66(0.58-0.77) |
| rs7745521 | G/A | 0.14 | 0.20 | 1.66E-08 | 0.66(0.58-0.77) |
| rs4947255 | T/C | 0.11 | 0.07 | 1.77E-08 | 1.78(1.45-2.18) |
| rs17208230 | A/G | 0.11 | 0.07 | 1.77E-08 | 1.78(1.45-2.18) |
| chr6:31254836 | C/T | 0.16 | 0.23 | 1.81E-08 | 0.64(0.55-0.75) |
| rs2853976 | C/T | 0.49 | 0.41 | 1.84E-08 | 1.41(1.25-1.58) |
| rs3906263 | A/G | 0.14 | 0.20 | 1.85E-08 | 0.62(0.53-0.73) |
| rs41315175 | T/C | 0.14 | 0.20 | 1.85E-08 | 0.62(0.53-0.73) |
| chr6:31744903 | G/T | 0.08 | 0.04 | 1.98E-08 | 1.96(1.54-2.49) |
| rs16867582 | A/C | 0.08 | 0.04 | 1.98E-08 | 1.96(1.54-2.49) |
| rs13217108 | T/C | 0.08 | 0.04 | 1.98E-08 | 1.96(1.54-2.49) |
| rs35009002 | C/A | 0.08 | 0.04 | 2.00E-08 | 1.95(1.54-2.48) |
| rs34191899 | C/A | 0.08 | 0.04 | 2.00E-08 | 1.95(1.54-2.48) |
| rs17201431 | C/T | 0.08 | 0.04 | 2.00E-08 | 1.95(1.54-2.48) |
| rs1131161 | T/C | 0.21 | 0.28 | 2.01E-08 | 0.67(0.58-0.77) |
| rs9368671 | T/C | 0.16 | 0.23 | 2.02E-08 | 0.64(0.55-0.75) |
| rs13194586 | G/C | 0.09 | 0.05 | 2.04E-08 | 1.87(1.50-2.34) |
| rs4711248 | T/C | 0.12 | 0.18 | 2.16E-08 | 0.61(0.51-0.73) |
| rs72861484 | T/A | 0.16 | 0.23 | 2.23E-08 | 0.64(0.55-0.75) |
| rs9348860 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs555968073 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs386622031 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9368670 | T/C | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9380236 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs72861464 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs16899147 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs72861465 | A/G | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs17198727 | T/C | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9366776 | A/G | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs10947169 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs3873377 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs6916525 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs6939681 | G/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9357122 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs6916525 | C/G | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9295969 | A/G | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs9348863 | C/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs3873381 | G/T | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs3873382 | G/A | 0.16 | 0.23 | 2.25E-08 | 0.64(0.55-0.75) |
| rs79941607 | T/C | 0.12 | 0.07 | 2.36E-08 | 1.75(1.44-2.14) |
| rs12175179 | T/C | 0.13 | 0.20 | 2.49E-08 | 0.62(0.53-0.74) |
| rs10456397 | T/A | 0.08 | 0.04 | 2.57E-08 | 1.95(1.53-2.47) |
| rs12193582 | A/G | 0.08 | 0.04 | 2.57E-08 | 1.95(1.53-2.47) |
| rs78546106 | T/C | 0.12 | 0.07 | 2.88E-08 | 1.74(1.43-2.13) |
| rs75117278 | G/A | 0.11 | 0.07 | 3.02E-08 | 1.74(1.43-2.13) |
| rs9366777 | A/T | 0.16 | 0.23 | 3.09E-08 | 0.65(0.55-0.75) |
| rs4713429 | G/C | 0.18 | 0.25 | 3.27E-08 | 0.66(0.57-0.76) |
| rs1362104 | G/A | 0.52 | 0.43 | 3.30E-08 | 1.40(1.24-1.57) |
| rs117876580 | C/T | 0.05 | 0.10 | 3.34E-08 | 0.50(0.39-0.64) |
| rs532086 | C/T | 0.13 | 0.19 | 3.44E-08 | 0.62(0.52-0.74) |
| rs7773175 | G/C | 0.33 | 0.25 | 3.46E-08 | 1.44(1.26-1.63) |
| rs3132123 | G/A | 0.16 | 0.10 | 3.59E-08 | 1.61(1.36-1.92) |
| HLA-C amino acid Arg 156 | P/A | 0.26 | 0.34 | 3.66E-08 | 0.69(0.61-0.79) |
| rs2844567 | A/G | 0.10 | 0.06 | 3.70E-08 | 1.81(1.46-2.25) |
| rs453098 | A/G | 0.10 | 0.06 | 3.70E-08 | 1.81(1.46-2.25) |
| rs2523638 | T/C | 0.45 | 0.37 | 3.80E-08 | 1.40(1.24-1.58) |
| rs1269556 | C/T | 0.48 | 0.40 | 3.83E-08 | 1.40(1.24-1.27) |
| rs9260142 | G/C | 0.12 | 0.08 | 3.94E-08 | 1.71(1.41-2.07) |
| rs9256982 | P/A | 0.12 | 0.08 | 3.94E-08 | 1.71(1.41-2.07) |
| rs2571381 | T/C | 0.12 | 0.08 | 3.94E-08 | 1.71(1.41-2.07) |
| rs9260205 | A/G | 0.12 | 0.08 | 3.94E-08 | 1.71(1.41-2.07) |
| rs41546815 | A/G | 0.12 | 0.08 | 3.94E-08 | 1.71(1.41-2.07) |
| rs7750854 | T/G | 0.31 | 0.39 | 4.03E-08 | 0.70(0.62-0.80) |
| rs35152141 | T/A | 0.09 | 0.05 | 4.11E-08 | 1.85(1.48-2.31) |
| rs3129730 | G/A | 0.10 | 0.06 | 4.21E-08 | 1.79(1.45-2.21) |
| rs7761965 | A/G | 0.27 | 0.35 | 4.22E-08 | 0.70(0.61-0.79) |
| rs3132679 | T/C | 0.16 | 0.10 | 4.23E-08 | 1.61(1.36-1.91) |
| rs3132121 | C/T | 0.16 | 0.10 | 4.23E-08 | 1.61(1.36-1.91) |
| rs9394032 | T/A | 0.13 | 0.20 | 4.24E-08 | 0.63(0.53-0.74) |
| rs9348864 | C/T | 0.15 | 0.21 | 4.28E-08 | 0.64(0.55-0.75) |
| rs11966200 | T/C | 0.08 | 0.04 | 4.29E-08 | 1.92(1.51-2.43) |
| rs13209014 | T/C | 0.08 | 0.04 | 4.29E-08 | 1.92(1.51-2.43) |
| chr6:30978979 | T/G | 0.31 | 0.39 | 4.41E-08 | 0.70(0.62-0.80) |
| rs2308585 | P/A | 0.29 | 0.37 | 4.46E-08 | 0.70(0.61-0.80) |
| rs9380181 | T/A | 0.06 | 0.11 | 4.72E-08 | 0.53(0.42-0.67) |
| rs10947131 | T/C | 0.13 | 0.20 | 4.72E-08 | 0.63(0.53-0.74) |
| rs9380211 | A/G | 0.13 | 0.20 | 4.72E-08 | 0.63(0.53-0.74) |
| rs2394426 | A/G | 0.13 | 0.20 | 4.72E-08 | 0.63(0.53-0.74) |
| rs2894048 | A/C | 0.13 | 0.20 | 4.72E-08 | 0.63(0.53-0.74) |
| rs2394425 | T/C | 0.13 | 0.20 | 4.72E-08 | 0.63(0.53-0.74) |
| rs9394053 | A/G | 0.15 | 0.21 | 4.75E-08 | 0.64(0.55-0.75) |
| rs12525626 | C/T | 0.18 | 0.25 | 4.90E-08 | 0.66(0.57-0.77) |
| rs4713427 | A/C | 0.18 | 0.25 | 0.00 | 0.66(0.57-0.77) |
| Here we show the results of HLA alleles and amino acid polymorphisms whose *P* value smaller than 5E-08; | | | | | |
| A1/A2, A1: effective allele, A2: alternative allele, A/P: the letter ‘A’ stands for ‘Absent’, the letter ‘P’ stands for ‘Present'; | | | | | |
| *P*: statistical logistic *p* value of each variant; | | | | | |
| OR: estimated odds ratio, 95% CI: 95% confidence interval for odds ratio. | | | | | |