

Supplementary material

Article

Body Mass Index and the Risk of Atrial Fibrillation: A Mendelian Randomization Study

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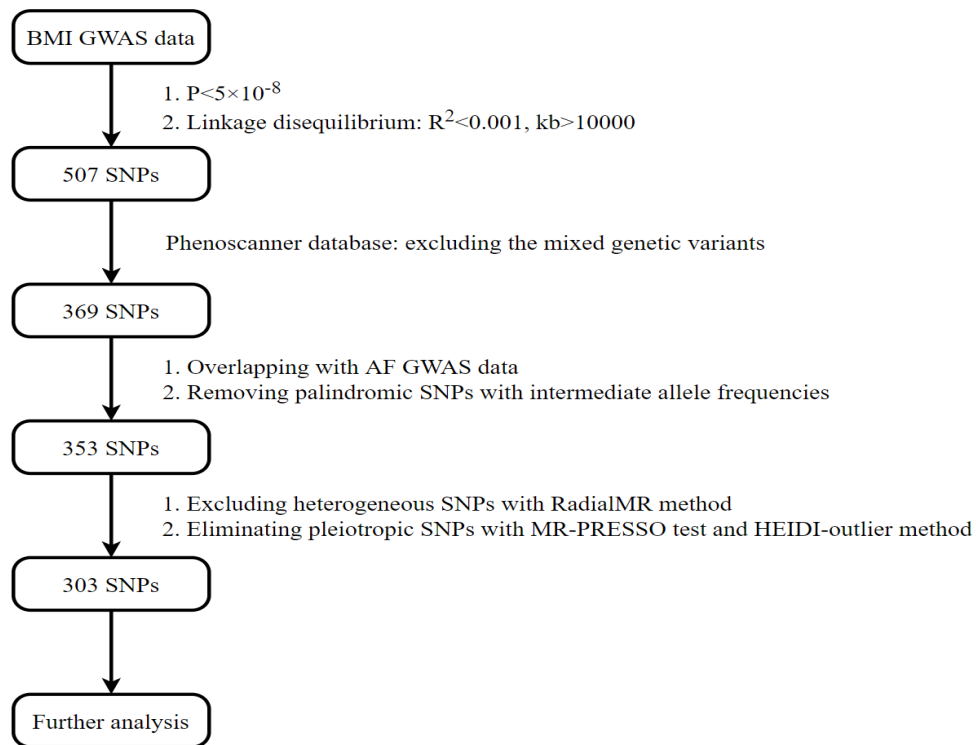


Figure S1. Flow chart for quality control of the instrumental variables for MR analysis

Table S1. Characteristics of the SNPs associated with BMI and with AF

| SNP | Chr | Pos | EA | Association with BMI | | | | Association with AF | | | |
|------------|-----|-----------|----|----------------------|---------|--------|----------|---------------------|---------|--------|--------|
| | | | | EAF | Beta | SE | P | EAF | Beta | SE | P |
| rs10009336 | 4 | 44480783 | T | 0.1638 | -0.0140 | 0.0022 | 2.20E-10 | 0.1564 | -0.0018 | 0.0090 | 0.8416 |
| rs1006896 | 3 | 88104411 | C | 0.1061 | -0.0234 | 0.0027 | 5.50E-18 | 0.1129 | 0.0110 | 0.0108 | 0.3058 |
| rs10132280 | 14 | 25928179 | A | 0.3017 | -0.0223 | 0.0018 | 5.60E-35 | 0.302 | -0.0122 | 0.0073 | 0.0953 |
| rs10169594 | 2 | 41637688 | C | 0.3596 | 0.0121 | 0.0018 | 2.00E-11 | 0.3739 | 0.0073 | 0.0070 | 0.2973 |
| rs10197031 | 2 | 105454590 | C | 0.2834 | 0.0166 | 0.0019 | 1.90E-18 | 0.2918 | 0.0191 | 0.0073 | 0.0092 |
| rs10243319 | 7 | 147674678 | C | 0.3939 | -0.0107 | 0.0018 | 1.20E-09 | 0.3967 | 0.0016 | 0.0068 | 0.8125 |
| rs10247983 | 7 | 114590228 | A | 0.9213 | 0.0201 | 0.0033 | 1.70E-09 | 0.8999 | 0.0017 | 0.0124 | 0.8889 |
| rs10248136 | 7 | 39077397 | T | 0.5142 | -0.0097 | 0.0017 | 2.00E-08 | 0.5051 | -0.0016 | 0.0067 | 0.8043 |
| rs10269783 | 7 | 49616203 | A | 0.3896 | 0.0133 | 0.0017 | 1.40E-15 | 0.3963 | -0.0028 | 0.0068 | 0.6755 |
| rs1048932 | 11 | 115044850 | A | 0.4162 | -0.0160 | 0.0017 | 3.80E-22 | 0.4282 | -0.0045 | 0.0067 | 0.5032 |
| rs10742752 | 11 | 45438374 | C | 0.6159 | 0.0124 | 0.0017 | 1.10E-13 | 0.6144 | 0.0075 | 0.0068 | 0.2726 |
| rs10768994 | 11 | 43936945 | C | 0.4337 | -0.0114 | 0.0017 | 6.40E-12 | 0.4422 | 0.0017 | 0.0067 | 0.8037 |
| rs10795422 | 10 | 16759312 | G | 0.6905 | 0.0139 | 0.0019 | 9.30E-14 | 0.6919 | -0.0076 | 0.0074 | 0.2995 |
| rs10811871 | 9 | 23200766 | G | 0.3829 | -0.0108 | 0.0018 | 1.60E-09 | 0.388 | -0.0056 | 0.0068 | 0.4146 |
| rs10858334 | 9 | 137989785 | G | 0.1415 | 0.0143 | 0.0026 | 2.70E-08 | 0.1427 | 0.0046 | 0.0109 | 0.6749 |
| rs10867256 | 9 | 81367391 | T | 0.553 | -0.0118 | 0.0017 | 8.70E-12 | 0.5635 | -0.0047 | 0.0067 | 0.4820 |
| rs10914462 | 1 | 32125943 | G | 0.4255 | -0.0112 | 0.0017 | 1.50E-10 | 0.4206 | -0.0052 | 0.0067 | 0.4398 |
| rs10920678 | 1 | 190239907 | G | 0.5709 | -0.0155 | 0.0016 | 1.50E-21 | 0.5735 | -0.0023 | 0.0067 | 0.7331 |
| rs10938397 | 4 | 45182527 | G | 0.4317 | 0.0324 | 0.0016 | 3.40E-86 | 0.4234 | 0.0183 | 0.0067 | 0.0066 |
| rs10942267 | 5 | 80841914 | G | 0.3088 | -0.0156 | 0.0019 | 3.90E-17 | 0.297 | 0.0039 | 0.0073 | 0.5899 |
| rs10953740 | 7 | 113460282 | G | 0.5534 | -0.0153 | 0.0017 | 1.00E-18 | 0.5371 | -0.0182 | 0.0067 | 0.0070 |
| rs10968114 | 9 | 27800007 | C | 0.4681 | -0.0113 | 0.0017 | 6.10E-11 | 0.4726 | 0.0073 | 0.0067 | 0.2764 |
| rs10984756 | 9 | 122651784 | G | 0.1048 | 0.0174 | 0.0029 | 1.10E-09 | 0.1074 | -0.0138 | 0.0109 | 0.2058 |
| rs11030618 | 11 | 29243293 | T | 0.5679 | 0.0110 | 0.0017 | 2.40E-10 | 0.5577 | 0.0061 | 0.0067 | 0.3590 |
| rs11105839 | 12 | 91237920 | A | 0.3799 | -0.0109 | 0.0017 | 1.10E-10 | 0.3761 | -0.0050 | 0.0069 | 0.4693 |
| rs11118308 | 1 | 219633869 | G | 0.4703 | -0.0101 | 0.0016 | 4.80E-10 | 0.4559 | 0.0071 | 0.0067 | 0.2874 |
| rs1112613 | 13 | 53651850 | A | 0.1762 | -0.0133 | 0.0023 | 3.40E-09 | 0.1838 | -0.0114 | 0.0086 | 0.1861 |
| rs11150911 | 18 | 73498528 | C | 0.7191 | -0.0133 | 0.0018 | 4.70E-13 | 0.6953 | -0.0117 | 0.0073 | 0.1102 |
| rs11165643 | 1 | 96924097 | T | 0.5828 | 0.0206 | 0.0017 | 1.40E-35 | 0.5854 | 0.0060 | 0.0067 | 0.3755 |
| rs11170468 | 12 | 39430048 | C | 0.2326 | -0.0123 | 0.0019 | 1.90E-10 | 0.241 | -0.0040 | 0.0078 | 0.6088 |
| rs11173522 | 12 | 60953472 | A | 0.2078 | 0.0128 | 0.0021 | 1.10E-09 | 0.2103 | 0.0083 | 0.0081 | 0.3073 |
| rs11185111 | 1 | 107962328 | A | 0.3042 | -0.0129 | 0.0019 | 7.70E-12 | 0.3021 | -0.0074 | 0.0072 | 0.3039 |
| rs11251352 | 10 | 2585792 | G | 0.5988 | 0.0109 | 0.0018 | 7.00E-10 | 0.6053 | -0.0018 | 0.0068 | 0.7943 |
| rs11505821 | 7 | 76818677 | T | 0.0601 | 0.0311 | 0.0035 | 2.70E-19 | 0.0616 | 0.0135 | 0.0139 | 0.3287 |
| rs11609659 | 12 | 108296260 | C | 0.2371 | -0.0154 | 0.0020 | 2.20E-14 | 0.2458 | -0.0087 | 0.0078 | 0.2664 |
| rs11615578 | 12 | 121714935 | T | 0.2474 | 0.0130 | 0.0020 | 8.10E-11 | 0.2542 | -0.0025 | 0.0078 | 0.7446 |
| rs11656076 | 17 | 31464270 | A | 0.2254 | -0.0142 | 0.0021 | 5.60E-12 | 0.2258 | -0.0135 | 0.0079 | 0.0883 |
| rs11672660 | 19 | 46180184 | T | 0.2049 | -0.0340 | 0.0021 | 1.70E-60 | 0.2095 | -0.0021 | 0.0082 | 0.8019 |
| rs11738695 | 5 | 108699161 | A | 0.586 | 0.0097 | 0.0017 | 2.00E-08 | 0.5843 | 0.0162 | 0.0068 | 0.0165 |
| rs11739877 | 5 | 105876806 | T | 0.6118 | 0.0117 | 0.0018 | 6.60E-11 | 0.6131 | 0.0144 | 0.0068 | 0.0362 |
| rs11855853 | 15 | 78012618 | T | 0.2649 | -0.0145 | 0.0020 | 2.40E-13 | 0.26 | -0.0023 | 0.0077 | 0.7643 |
| rs1187352 | 9 | 87293457 | C | 0.6518 | 0.0119 | 0.0018 | 6.00E-11 | 0.6456 | 0.0045 | 0.0070 | 0.5171 |
| rs11951673 | 5 | 95861012 | T | 0.3941 | -0.0123 | 0.0017 | 1.10E-13 | 0.3877 | -0.0043 | 0.0068 | 0.5231 |
| rs12033257 | 1 | 112318484 | G | 0.3835 | -0.0146 | 0.0018 | 2.40E-15 | 0.3813 | -0.0114 | 0.0070 | 0.1036 |
| rs12041258 | 1 | 195047936 | C | 0.2287 | -0.0146 | 0.0020 | 9.50E-13 | 0.2368 | 0.0046 | 0.0078 | 0.5614 |
| rs1218822 | 13 | 28011963 | A | 0.6663 | 0.0168 | 0.0017 | 1.90E-22 | 0.6449 | 0.0045 | 0.0070 | 0.5187 |

| | | | | | | | | | | | |
|------------|----|-----------|---|---------|---------|--------|----------|--------|---------|--------|--------|
| rs12334877 | 8 | 67194171 | A | 0.198 | -0.0144 | 0.0022 | 7.70E-11 | 0.1981 | -0.0041 | 0.0083 | 0.6209 |
| rs12364470 | 11 | 134601012 | G | 0.1626 | 0.0178 | 0.0022 | 1.10E-15 | 0.1676 | 0.0159 | 0.0091 | 0.0798 |
| rs12416812 | 11 | 888632 | A | 0.5088 | 0.0111 | 0.0016 | 6.10E-12 | 0.5191 | -0.0022 | 0.0066 | 0.7401 |
| rs1241986 | 18 | 6873954 | A | 0.8479 | -0.0139 | 0.0024 | 1.10E-08 | 0.8259 | -0.0102 | 0.0092 | 0.2701 |
| rs12422552 | 12 | 14413931 | C | 0.2663 | -0.0134 | 0.0020 | 1.60E-11 | 0.2567 | -0.0013 | 0.0077 | 0.8637 |
| rs12546578 | 8 | 85085268 | A | 0.7246 | 0.0146 | 0.0020 | 1.00E-13 | 0.7239 | -0.0083 | 0.0076 | 0.2752 |
| rs12564992 | 1 | 174478100 | G | 0.1144 | 0.0196 | 0.0026 | 5.30E-14 | 0.1082 | 0.0050 | 0.0106 | 0.6373 |
| rs12629015 | 3 | 119618053 | G | 0.1852 | -0.0135 | 0.0023 | 2.10E-09 | 0.1761 | -0.0211 | 0.0086 | 0.0140 |
| rs1266874 | 6 | 51779638 | G | 0.3558 | 0.0140 | 0.0018 | 9.80E-15 | 0.3362 | 0.0011 | 0.0070 | 0.8781 |
| rs12675063 | 8 | 132879047 | T | 0.1131 | 0.0156 | 0.0026 | 1.30E-09 | 0.1109 | 0.0035 | 0.0104 | 0.7394 |
| rs1268065 | 6 | 126042783 | A | 0.4794 | -0.0102 | 0.0017 | 1.00E-09 | 0.4805 | -0.0160 | 0.0067 | 0.0167 |
| rs12718572 | 7 | 50573325 | T | 0.4024 | -0.0117 | 0.0018 | 3.00E-11 | 0.4022 | -0.0138 | 0.0068 | 0.0416 |
| rs12762034 | 10 | 33969931 | C | 0.07583 | 0.0240 | 0.0032 | 7.30E-14 | 0.0771 | -0.0118 | 0.0125 | 0.3476 |
| rs1285997 | 14 | 91513029 | G | 0.7153 | 0.0142 | 0.0019 | 1.20E-13 | 0.6976 | 0.0124 | 0.0073 | 0.0914 |
| rs12888545 | 14 | 88308044 | G | 0.2519 | 0.0136 | 0.0020 | 9.10E-12 | 0.258 | -0.0032 | 0.0077 | 0.6797 |
| rs12905439 | 15 | 99521883 | G | 0.3393 | -0.0118 | 0.0018 | 1.40E-10 | 0.3572 | -0.0022 | 0.0072 | 0.7607 |
| rs12922346 | 16 | 82438337 | C | 0.2657 | 0.0136 | 0.0020 | 1.00E-11 | 0.2679 | 0.0075 | 0.0076 | 0.3271 |
| rs12939549 | 17 | 78611724 | G | 0.4335 | -0.0180 | 0.0016 | 2.70E-28 | 0.4387 | -0.0058 | 0.0067 | 0.3844 |
| rs1296328 | 4 | 137083193 | C | 0.5657 | -0.0179 | 0.0018 | 4.90E-24 | 0.5568 | -0.0186 | 0.0068 | 0.0063 |
| rs13047416 | 21 | 40309436 | G | 0.3769 | -0.0154 | 0.0018 | 2.20E-17 | 0.3776 | -0.0008 | 0.0070 | 0.9075 |
| rs13069244 | 3 | 180441172 | A | 0.07747 | 0.0187 | 0.0032 | 3.00E-09 | 0.0766 | 0.0139 | 0.0130 | 0.2834 |
| rs13110266 | 4 | 162129844 | A | 0.4065 | -0.0117 | 0.0017 | 1.90E-12 | 0.4147 | -0.0143 | 0.0068 | 0.0341 |
| rs13147390 | 4 | 80712000 | C | 0.3569 | 0.0103 | 0.0018 | 1.00E-08 | 0.3594 | -0.0010 | 0.0070 | 0.8909 |
| rs13174863 | 5 | 139080745 | G | 0.1548 | 0.0192 | 0.0023 | 2.90E-16 | 0.1501 | -0.0009 | 0.0095 | 0.9249 |
| rs13191362 | 6 | 163033350 | G | 0.1198 | -0.0236 | 0.0025 | 5.90E-21 | 0.1292 | -0.0165 | 0.0101 | 0.1022 |
| rs1320903 | 3 | 131758077 | A | 0.3174 | 0.0216 | 0.0018 | 9.20E-32 | 0.3127 | 0.0007 | 0.0071 | 0.9171 |
| rs1321432 | 20 | 6614691 | C | 0.6321 | 0.0201 | 0.0018 | 3.50E-29 | 0.6287 | 0.0138 | 0.0070 | 0.0480 |
| rs13250058 | 8 | 112270826 | T | 0.6771 | 0.0112 | 0.0018 | 2.90E-10 | 0.6792 | -0.0058 | 0.0072 | 0.4200 |
| rs13263601 | 8 | 14095900 | C | 0.3478 | 0.0154 | 0.0018 | 2.20E-17 | 0.3415 | 0.0116 | 0.0070 | 0.0993 |
| rs1327259 | 6 | 51177811 | G | 0.3872 | -0.0155 | 0.0018 | 1.70E-18 | 0.3828 | -0.0064 | 0.0068 | 0.3462 |
| rs13287131 | 9 | 92119579 | C | 0.2491 | 0.0123 | 0.0020 | 6.80E-10 | 0.2581 | 0.0079 | 0.0077 | 0.3005 |
| rs1330052 | 13 | 86536006 | G | 0.3504 | 0.0132 | 0.0018 | 1.50E-13 | 0.3667 | 0.0017 | 0.0069 | 0.8107 |
| rs1365466 | 18 | 36182440 | T | 0.7406 | -0.0137 | 0.0019 | 3.30E-13 | 0.7327 | -0.0091 | 0.0076 | 0.2283 |
| rs1371108 | 2 | 81816251 | A | 0.3247 | 0.0119 | 0.0018 | 9.00E-11 | 0.3186 | 0.0060 | 0.0071 | 0.3978 |
| rs1412235 | 9 | 28410996 | C | 0.3175 | 0.0246 | 0.0017 | 6.00E-45 | 0.3177 | 0.0100 | 0.0071 | 0.1618 |
| rs1430387 | 18 | 58227112 | C | 0.4295 | -0.0114 | 0.0017 | 5.80E-11 | 0.4314 | -0.0101 | 0.0067 | 0.1309 |
| rs1431659 | 8 | 73439070 | G | 0.7344 | -0.0196 | 0.0019 | 6.00E-24 | 0.7184 | -0.0069 | 0.0075 | 0.3536 |
| rs1445652 | 2 | 155668460 | A | 0.1855 | 0.0123 | 0.0022 | 4.30E-08 | 0.1878 | 0.0182 | 0.0086 | 0.0341 |
| rs1465900 | 11 | 76473138 | C | 0.2188 | -0.0125 | 0.0020 | 4.80E-10 | 0.2186 | -0.0153 | 0.0080 | 0.0570 |
| rs1476322 | 3 | 161446055 | A | 0.569 | 0.0101 | 0.0017 | 5.00E-09 | 0.5544 | 0.0053 | 0.0066 | 0.4249 |
| rs1477199 | 16 | 53712135 | G | 0.1451 | 0.0228 | 0.0024 | 9.40E-22 | 0.1392 | 0.0220 | 0.0097 | 0.0238 |
| rs1492767 | 4 | 55221467 | T | 0.4957 | 0.0094 | 0.0016 | 1.00E-08 | 0.5184 | 0.0008 | 0.0066 | 0.8993 |
| rs1503526 | 5 | 63020706 | C | 0.4838 | 0.0140 | 0.0017 | 5.50E-17 | 0.4878 | 0.0043 | 0.0066 | 0.5177 |
| rs1522569 | 4 | 171632637 | G | 0.1819 | -0.0164 | 0.0022 | 2.90E-13 | 0.1729 | 0.0073 | 0.0087 | 0.4045 |
| rs1528435 | 2 | 181550962 | T | 0.6331 | 0.0164 | 0.0017 | 9.10E-23 | 0.6191 | 0.0126 | 0.0068 | 0.0643 |
| rs1535660 | 9 | 10371073 | C | 0.8554 | -0.0147 | 0.0025 | 5.20E-09 | 0.837 | -0.0166 | 0.0096 | 0.0823 |
| rs1538247 | 6 | 153395344 | C | 0.3181 | 0.0108 | 0.0019 | 1.00E-08 | 0.3116 | -0.0010 | 0.0072 | 0.8884 |
| rs156201 | 6 | 104847441 | C | 0.7606 | 0.0123 | 0.0020 | 5.80E-10 | 0.7216 | -0.0051 | 0.0075 | 0.5022 |
| rs1624134 | 10 | 34834482 | C | 0.4068 | 0.0101 | 0.0018 | 1.10E-08 | 0.4072 | -0.0037 | 0.0068 | 0.5810 |

| | | | | | | | | | | | |
|------------|----|-----------|---|---------|---------|--------|----------|--------|---------|--------|--------|
| rs1656377 | 3 | 158285280 | C | 0.5885 | 0.0099 | 0.0017 | 1.60E-08 | 0.5844 | 0.0125 | 0.0067 | 0.0630 |
| rs1681740 | 10 | 118564313 | C | 0.3933 | -0.0115 | 0.0018 | 1.10E-10 | 0.4049 | -0.0009 | 0.0068 | 0.8938 |
| rs16871902 | 5 | 3488462 | A | 0.4877 | 0.0125 | 0.0017 | 4.60E-13 | 0.4778 | 0.0063 | 0.0067 | 0.3520 |
| rs17014375 | 1 | 209543560 | G | 0.1348 | 0.0172 | 0.0025 | 1.10E-11 | 0.1384 | 0.0154 | 0.0096 | 0.1106 |
| rs17033117 | 3 | 35443653 | T | 0.1872 | 0.0137 | 0.0022 | 8.90E-10 | 0.1878 | 0.0079 | 0.0084 | 0.3470 |
| rs17113297 | 10 | 102395982 | T | 0.2082 | 0.0166 | 0.0021 | 2.10E-15 | 0.2103 | 0.0164 | 0.0081 | 0.0438 |
| rs17119937 | 8 | 14502274 | C | 0.06905 | 0.0212 | 0.0036 | 5.60E-09 | 0.0679 | 0.0088 | 0.0139 | 0.5250 |
| rs17203016 | 2 | 208255518 | G | 0.196 | 0.0150 | 0.0020 | 2.10E-13 | 0.2089 | 0.0206 | 0.0082 | 0.0121 |
| rs17238110 | 15 | 62150364 | G | 0.1634 | -0.0353 | 0.0050 | 2.00E-12 | 0.023 | -0.0321 | 0.0207 | 0.1216 |
| rs17311369 | 15 | 47709199 | T | 0.3278 | -0.0104 | 0.0019 | 3.10E-08 | 0.3333 | -0.0030 | 0.0071 | 0.6711 |
| rs17399237 | 2 | 35471626 | C | 0.5497 | -0.0129 | 0.0017 | 6.70E-14 | 0.5494 | -0.0065 | 0.0067 | 0.3276 |
| rs17424296 | 5 | 60838903 | A | 0.3659 | -0.0108 | 0.0018 | 2.40E-09 | 0.3648 | -0.0117 | 0.0069 | 0.0919 |
| rs17425707 | 1 | 57874879 | C | 0.1003 | 0.0167 | 0.0028 | 4.40E-09 | 0.0972 | 0.0103 | 0.0114 | 0.3628 |
| rs17446257 | 13 | 40749213 | A | 0.1292 | 0.0153 | 0.0026 | 2.90E-09 | 0.1323 | -0.0006 | 0.0100 | 0.9514 |
| rs17499593 | 2 | 172649755 | G | 0.1897 | 0.0125 | 0.0022 | 1.10E-08 | 0.202 | 0.0087 | 0.0085 | 0.3046 |
| rs175165 | 22 | 20116015 | G | 0.3941 | -0.0103 | 0.0018 | 5.20E-09 | 0.4072 | -0.0147 | 0.0068 | 0.0314 |
| rs17535749 | 3 | 10027724 | A | 0.1023 | 0.0150 | 0.0027 | 2.50E-08 | 0.1089 | 0.0138 | 0.0112 | 0.2163 |
| rs17551974 | 2 | 142293146 | A | 0.1782 | -0.0141 | 0.0022 | 1.90E-10 | 0.1903 | -0.0198 | 0.0085 | 0.0189 |
| rs17636031 | 10 | 126594078 | C | 0.2701 | 0.0160 | 0.0019 | 1.20E-17 | 0.2785 | 0.0100 | 0.0079 | 0.2098 |
| rs17663412 | 5 | 167595121 | A | 0.1139 | 0.0157 | 0.0027 | 6.10E-09 | 0.1131 | 0.0085 | 0.0105 | 0.4208 |
| rs17710386 | 18 | 63461201 | C | 0.3319 | 0.0126 | 0.0018 | 1.00E-12 | 0.3236 | 0.0070 | 0.0073 | 0.3374 |
| rs1830074 | 7 | 6718674 | C | 0.288 | 0.0115 | 0.0019 | 1.40E-09 | 0.2967 | -0.0008 | 0.0074 | 0.9137 |
| rs1836303 | 15 | 46539116 | G | 0.3873 | 0.0116 | 0.0018 | 5.30E-11 | 0.3926 | 0.0062 | 0.0068 | 0.3659 |
| rs1843328 | 12 | 17111188 | A | 0.5085 | -0.0099 | 0.0017 | 7.90E-09 | 0.5063 | -0.0050 | 0.0067 | 0.4569 |
| rs1863652 | 4 | 95991417 | A | 0.3449 | -0.0115 | 0.0018 | 1.40E-10 | 0.3477 | -0.0054 | 0.0070 | 0.4340 |
| rs1884389 | 20 | 1410582 | T | 0.4289 | -0.0103 | 0.0017 | 4.00E-09 | 0.4344 | -0.0043 | 0.0068 | 0.5258 |
| rs1885728 | 6 | 5977833 | A | 0.6787 | 0.0108 | 0.0019 | 1.00E-08 | 0.6733 | 0.0056 | 0.0073 | 0.4436 |
| rs1891216 | 1 | 7728391 | G | 0.3759 | 0.0107 | 0.0018 | 2.40E-09 | 0.3785 | -0.0060 | 0.0069 | 0.3831 |
| rs1896767 | 16 | 62838304 | A | 0.5376 | -0.0109 | 0.0017 | 2.40E-10 | 0.556 | -0.0101 | 0.0067 | 0.1323 |
| rs1927790 | 13 | 96922191 | C | 0.4109 | 0.0148 | 0.0016 | 1.80E-19 | 0.3989 | -0.0055 | 0.0067 | 0.4186 |
| rs1937683 | 10 | 53679060 | T | 0.6699 | 0.0109 | 0.0018 | 3.20E-09 | 0.6656 | 0.0109 | 0.0071 | 0.1219 |
| rs1948080 | 9 | 11852043 | G | 0.3749 | -0.0137 | 0.0018 | 1.10E-14 | 0.371 | -0.0052 | 0.0069 | 0.4488 |
| rs1982441 | 8 | 28021769 | T | 0.1381 | 0.0175 | 0.0026 | 7.00E-12 | 0.1385 | 0.0055 | 0.0097 | 0.5738 |
| rs1982725 | 19 | 30618771 | T | 0.4778 | 0.0097 | 0.0017 | 3.30E-08 | 0.4777 | 0.0021 | 0.0068 | 0.7521 |
| rs2007231 | 1 | 115266306 | T | 0.6387 | -0.0104 | 0.0018 | 5.20E-09 | 0.6339 | 0.0058 | 0.0070 | 0.4066 |
| rs200810 | 6 | 97922184 | C | 0.3716 | -0.0136 | 0.0017 | 5.50E-16 | 0.3837 | -0.0044 | 0.0068 | 0.5174 |
| rs2009416 | 5 | 92415111 | T | 0.361 | -0.0121 | 0.0018 | 1.10E-11 | 0.3577 | -0.0027 | 0.0069 | 0.6960 |
| rs2051559 | 4 | 3298800 | C | 0.1308 | 0.0176 | 0.0026 | 5.00E-12 | 0.1376 | 0.0011 | 0.0097 | 0.9070 |
| rs208015 | 17 | 46252346 | C | 0.9216 | -0.0356 | 0.0034 | 1.40E-25 | 0.9018 | -0.0169 | 0.0129 | 0.1899 |
| rs2124499 | 3 | 123093541 | C | 0.3718 | -0.0123 | 0.0017 | 3.40E-13 | 0.3792 | -0.0100 | 0.0069 | 0.1444 |
| rs2143253 | 20 | 41987392 | A | 0.1189 | -0.0188 | 0.0026 | 1.10E-12 | 0.1202 | -0.0011 | 0.0102 | 0.9106 |
| rs2162524 | 2 | 230817437 | C | 0.3321 | 0.0155 | 0.0018 | 4.10E-17 | 0.3242 | 0.0105 | 0.0071 | 0.1394 |
| rs217671 | 14 | 62360464 | G | 0.2719 | 0.0144 | 0.0019 | 1.30E-13 | 0.2612 | 0.0072 | 0.0075 | 0.3397 |
| rs2228213 | 6 | 12124855 | A | 0.3481 | -0.0139 | 0.0017 | 4.60E-16 | 0.3381 | -0.0086 | 0.0070 | 0.2174 |
| rs2246012 | 6 | 131898208 | C | 0.1628 | 0.0158 | 0.0022 | 3.10E-13 | 0.1746 | 0.0132 | 0.0087 | 0.1301 |
| rs2283093 | 7 | 126721231 | T | 0.2066 | 0.0127 | 0.0021 | 3.10E-09 | 0.2242 | 0.0076 | 0.0081 | 0.3465 |
| rs2306537 | 12 | 133423695 | G | 0.3092 | 0.0133 | 0.0019 | 8.70E-13 | 0.3269 | 0.0157 | 0.0071 | 0.0278 |
| rs2317299 | 2 | 236903093 | C | 0.5597 | -0.0106 | 0.0017 | 1.30E-09 | 0.5439 | -0.0119 | 0.0067 | 0.0777 |
| rs2357760 | 6 | 120213880 | A | 0.6754 | 0.0145 | 0.0017 | 6.80E-17 | 0.6498 | 0.0181 | 0.0070 | 0.0097 |

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|-----------|----|-----------|---|--------|---------|--------|----------|--------|---------|--------|--------|
| rs2361988 | 16 | 398151 | C | 0.2539 | -0.0155 | 0.0020 | 5.20E-15 | 0.2414 | 0.0007 | 0.0078 | 0.9263 |
| rs2365389 | 3 | 61236462 | T | 0.4143 | -0.0174 | 0.0017 | 1.30E-25 | 0.4277 | -0.0062 | 0.0067 | 0.3581 |
| rs2367112 | 5 | 64168193 | G | 0.4919 | -0.0119 | 0.0016 | 2.30E-13 | 0.5014 | -0.0030 | 0.0066 | 0.6542 |
| rs2423668 | 20 | 12430673 | C | 0.5505 | -0.0105 | 0.0019 | 2.80E-08 | 0.546 | 0.0057 | 0.0068 | 0.4036 |
| rs2425840 | 20 | 44904838 | C | 0.4059 | 0.0119 | 0.0018 | 1.60E-11 | 0.4075 | 0.0027 | 0.0068 | 0.6916 |
| rs2429150 | 12 | 2152655 | C | 0.4164 | 0.0111 | 0.0018 | 2.70E-10 | 0.4144 | 0.0037 | 0.0068 | 0.5836 |
| rs2479958 | 13 | 111984244 | G | 0.5075 | -0.0154 | 0.0018 | 1.50E-17 | 0.5036 | -0.0012 | 0.0068 | 0.8622 |
| rs2481665 | 1 | 62594677 | C | 0.4408 | -0.0161 | 0.0016 | 7.20E-23 | 0.4465 | -0.0083 | 0.0067 | 0.2125 |
| rs2543132 | 8 | 15536311 | C | 0.8134 | 0.0146 | 0.0022 | 5.00E-11 | 0.8001 | -0.0043 | 0.0085 | 0.6180 |
| rs2605603 | 11 | 93221105 | A | 0.4887 | -0.0103 | 0.0016 | 2.50E-10 | 0.4755 | -0.0139 | 0.0067 | 0.0368 |
| rs2608703 | 12 | 41846769 | A | 0.4546 | 0.0142 | 0.0017 | 1.90E-16 | 0.4642 | 0.0044 | 0.0066 | 0.5031 |
| rs262130 | 6 | 142853486 | T | 0.1969 | 0.0127 | 0.0023 | 1.80E-08 | 0.1867 | -0.0113 | 0.0085 | 0.1841 |
| rs2693826 | 2 | 6160943 | A | 0.4421 | -0.0137 | 0.0017 | 2.00E-15 | 0.4351 | -0.0099 | 0.0067 | 0.1387 |
| rs273504 | 19 | 18215247 | G | 0.4266 | 0.0153 | 0.0018 | 4.40E-18 | 0.4234 | 0.0080 | 0.0068 | 0.2395 |
| rs2791653 | 1 | 11129848 | G | 0.7577 | -0.0141 | 0.0019 | 1.30E-13 | 0.7516 | -0.0029 | 0.0078 | 0.7121 |
| rs2832283 | 21 | 30690558 | A | 0.2208 | 0.0115 | 0.0020 | 5.80E-09 | 0.2179 | -0.0078 | 0.0082 | 0.3402 |
| rs2861683 | 2 | 67836507 | C | 0.407 | -0.0144 | 0.0017 | 1.30E-16 | 0.3976 | -0.0178 | 0.0067 | 0.0084 |
| rs287104 | 19 | 34290995 | A | 0.6604 | 0.0115 | 0.0017 | 4.40E-11 | 0.6593 | 0.0068 | 0.0071 | 0.3425 |
| rs2875762 | 6 | 124925032 | C | 0.2473 | 0.0139 | 0.0020 | 1.20E-11 | 0.2343 | 0.0182 | 0.0079 | 0.0208 |
| rs2931434 | 5 | 73159098 | T | 0.3168 | -0.0104 | 0.0018 | 1.40E-08 | 0.3219 | -0.0012 | 0.0071 | 0.8703 |
| rs2943465 | 12 | 19265921 | C | 0.9444 | 0.0248 | 0.0039 | 2.00E-10 | 0.9182 | 0.0297 | 0.0141 | 0.0349 |
| rs294704 | 5 | 152519088 | T | 0.7239 | -0.0113 | 0.0019 | 4.00E-09 | 0.7136 | -0.0015 | 0.0075 | 0.8420 |
| rs3007105 | 14 | 47367616 | T | 0.4697 | 0.0142 | 0.0017 | 1.10E-17 | 0.4077 | 0.0111 | 0.0068 | 0.0995 |
| rs33500 | 3 | 42427191 | T | 0.8082 | -0.0167 | 0.0022 | 4.30E-14 | 0.7921 | -0.0183 | 0.0085 | 0.0310 |
| rs339991 | 15 | 60913637 | G | 0.5631 | 0.0124 | 0.0018 | 1.20E-12 | 0.5746 | 0.0123 | 0.0067 | 0.0652 |
| rs349088 | 11 | 84814393 | A | 0.4976 | -0.0128 | 0.0017 | 1.80E-13 | 0.4936 | 0.0001 | 0.0066 | 0.9905 |
| rs3731695 | 2 | 203820275 | C | 0.5582 | 0.0116 | 0.0016 | 7.90E-13 | 0.5453 | 0.0041 | 0.0067 | 0.5365 |
| rs3732084 | 2 | 207174316 | C | 0.6139 | 0.0107 | 0.0018 | 1.10E-09 | 0.6084 | 0.0079 | 0.0068 | 0.2432 |
| rs3736485 | 15 | 51748610 | G | 0.5443 | -0.0134 | 0.0016 | 2.50E-16 | 0.5563 | 0.0042 | 0.0067 | 0.5271 |
| rs3749897 | 6 | 42532102 | T | 0.4172 | 0.0122 | 0.0018 | 8.40E-12 | 0.4038 | 0.0038 | 0.0067 | 0.5697 |
| rs3764835 | 2 | 159519368 | A | 0.1528 | -0.0141 | 0.0024 | 3.10E-09 | 0.1546 | -0.0002 | 0.0093 | 0.9844 |
| rs3772882 | 3 | 81808602 | A | 0.3661 | 0.0127 | 0.0018 | 6.60E-13 | 0.3853 | 0.0091 | 0.0068 | 0.1819 |
| rs3800229 | 6 | 108996963 | T | 0.7123 | 0.0175 | 0.0018 | 1.40E-22 | 0.707 | -0.0073 | 0.0073 | 0.3204 |
| rs3800637 | 7 | 137403432 | C | 0.336 | 0.0115 | 0.0018 | 5.10E-10 | 0.3391 | 0.0148 | 0.0071 | 0.0356 |
| rs3806114 | 6 | 20482335 | A | 0.6773 | -0.0113 | 0.0018 | 3.40E-10 | 0.6592 | 0.0032 | 0.0072 | 0.6575 |
| rs3806572 | 2 | 55238677 | A | 0.2788 | -0.0145 | 0.0019 | 1.60E-14 | 0.2834 | 0.0039 | 0.0074 | 0.5981 |
| rs3807645 | 7 | 77830091 | A | 0.221 | -0.0166 | 0.0021 | 2.40E-15 | 0.2209 | -0.0074 | 0.0081 | 0.3554 |
| rs380857 | 9 | 101491066 | A | 0.8878 | -0.0151 | 0.0027 | 3.60E-08 | 0.8621 | -0.0005 | 0.0103 | 0.9647 |
| rs38314 | 7 | 70067315 | A | 0.4912 | -0.0120 | 0.0017 | 4.70E-12 | 0.492 | -0.0060 | 0.0067 | 0.3656 |
| rs3844598 | 5 | 140992235 | G | 0.521 | 0.0095 | 0.0017 | 3.80E-08 | 0.5357 | -0.0070 | 0.0066 | 0.2894 |
| rs3902951 | 14 | 69789755 | G | 0.2455 | 0.0134 | 0.0020 | 7.00E-12 | 0.255 | 0.0074 | 0.0077 | 0.3410 |
| rs3904244 | 10 | 27361527 | A | 0.1377 | 0.0155 | 0.0025 | 4.30E-10 | 0.1391 | 0.0213 | 0.0094 | 0.0236 |
| rs3935648 | 17 | 79085335 | G | 0.2328 | -0.0125 | 0.0022 | 6.80E-09 | 0.2177 | -0.0186 | 0.0082 | 0.0242 |
| rs3977755 | 10 | 104420210 | T | 0.2804 | -0.0135 | 0.0019 | 5.90E-13 | 0.2639 | -0.0015 | 0.0075 | 0.8419 |
| rs4072917 | 8 | 143300279 | A | 0.4694 | 0.0115 | 0.0018 | 6.90E-11 | 0.4765 | 0.0077 | 0.0067 | 0.2531 |
| rs4307239 | 7 | 24354300 | G | 0.4578 | 0.0115 | 0.0017 | 3.90E-11 | 0.4544 | -0.0084 | 0.0067 | 0.2115 |
| rs4310573 | 11 | 97855562 | T | 0.7813 | 0.0116 | 0.0021 | 3.50E-08 | 0.7611 | 0.0003 | 0.0080 | 0.9747 |
| rs4358081 | 2 | 29100642 | C | 0.4631 | 0.0097 | 0.0017 | 1.50E-08 | 0.4707 | -0.0030 | 0.0066 | 0.6547 |
| rs4430672 | 14 | 63094407 | C | 0.8004 | -0.0127 | 0.0022 | 3.90E-09 | 0.7861 | -0.0111 | 0.0083 | 0.1818 |

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|-----------|----|-----------|---|--------|---------|--------|----------|--------|---------|--------|--------|
| rs4482463 | 2 | 205375909 | A | 0.9213 | -0.0331 | 0.0033 | 2.80E-23 | 0.895 | -0.0124 | 0.0119 | 0.2976 |
| rs4518345 | 5 | 27185904 | A | 0.2842 | -0.0117 | 0.0019 | 1.00E-09 | 0.2837 | -0.0031 | 0.0074 | 0.6723 |
| rs4556997 | 2 | 100814858 | A | 0.1349 | 0.0197 | 0.0024 | 6.90E-17 | 0.137 | -0.0015 | 0.0096 | 0.8740 |
| rs4589691 | 2 | 144051398 | G | 0.1579 | 0.0141 | 0.0024 | 4.70E-09 | 0.152 | 0.0019 | 0.0093 | 0.8349 |
| rs4639527 | 2 | 416815 | G | 0.3012 | 0.0172 | 0.0019 | 3.30E-20 | 0.3102 | 0.0017 | 0.0073 | 0.8155 |
| rs4653017 | 1 | 33776728 | T | 0.6818 | 0.0122 | 0.0018 | 4.50E-11 | 0.6748 | 0.0051 | 0.0072 | 0.4774 |
| rs4671328 | 2 | 58935282 | G | 0.5533 | -0.0219 | 0.0017 | 2.20E-36 | 0.526 | 0.0019 | 0.0067 | 0.7795 |
| rs4722398 | 7 | 3125220 | T | 0.1336 | 0.0158 | 0.0025 | 3.60E-10 | 0.134 | 0.0028 | 0.0098 | 0.7789 |
| rs4783830 | 16 | 54255346 | A | 0.3074 | -0.0105 | 0.0019 | 2.40E-08 | 0.3055 | -0.0150 | 0.0072 | 0.0368 |
| rs4786903 | 16 | 6697104 | G | 0.7368 | 0.0125 | 0.0020 | 3.50E-10 | 0.7117 | 0.0020 | 0.0076 | 0.7939 |
| rs4800191 | 18 | 22461398 | C | 0.6369 | 0.0103 | 0.0017 | 2.50E-09 | 0.6326 | -0.0068 | 0.0070 | 0.3316 |
| rs4818225 | 21 | 42629895 | G | 0.6606 | 0.0117 | 0.0018 | 2.30E-10 | 0.6502 | 0.0104 | 0.0071 | 0.1424 |
| rs4820408 | 22 | 40604945 | G | 0.592 | -0.0151 | 0.0017 | 2.10E-19 | 0.6048 | -0.0066 | 0.0069 | 0.3344 |
| rs4858193 | 3 | 20441050 | C | 0.2779 | -0.0129 | 0.0019 | 1.60E-11 | 0.2988 | 0.0079 | 0.0074 | 0.2856 |
| rs4864201 | 4 | 130731284 | C | 0.6469 | -0.0141 | 0.0017 | 1.50E-16 | 0.6439 | -0.0138 | 0.0069 | 0.0469 |
| rs4880341 | 10 | 133992689 | T | 0.5606 | -0.0118 | 0.0017 | 1.10E-11 | 0.5763 | -0.0091 | 0.0068 | 0.1808 |
| rs4906908 | 15 | 27040082 | G | 0.5253 | 0.0103 | 0.0017 | 2.50E-09 | 0.5219 | 0.0132 | 0.0067 | 0.0471 |
| rs491711 | 11 | 28742220 | C | 0.316 | -0.0115 | 0.0019 | 1.10E-09 | 0.3115 | -0.0102 | 0.0073 | 0.1623 |
| rs4929923 | 11 | 8639200 | C | 0.6376 | 0.0181 | 0.0017 | 7.20E-27 | 0.6387 | 0.0047 | 0.0069 | 0.4919 |
| rs4936175 | 11 | 132641959 | C | 0.4445 | 0.0122 | 0.0017 | 1.40E-12 | 0.4541 | 0.0016 | 0.0067 | 0.8062 |
| rs4954638 | 2 | 137435455 | C | 0.2492 | -0.0118 | 0.0020 | 2.90E-09 | 0.2351 | -0.0042 | 0.0077 | 0.5903 |
| rs4986044 | 17 | 21261560 | T | 0.4687 | -0.0164 | 0.0016 | 3.30E-23 | 0.4533 | 0.0004 | 0.0067 | 0.9548 |
| rs538579 | 3 | 62711674 | C | 0.3228 | 0.0137 | 0.0019 | 1.30E-13 | 0.3264 | 0.0010 | 0.0071 | 0.8920 |
| rs543874 | 1 | 177889480 | G | 0.1952 | 0.0475 | 0.0020 | 1.2E-122 | 0.207 | 0.0104 | 0.0082 | 0.2052 |
| rs559231 | 18 | 39644247 | T | 0.3956 | 0.0135 | 0.0018 | 2.40E-14 | 0.3949 | -0.0017 | 0.0068 | 0.8010 |
| rs577525 | 10 | 99769388 | C | 0.5676 | 0.0166 | 0.0017 | 9.70E-22 | 0.5688 | 0.0113 | 0.0067 | 0.0916 |
| rs592483 | 11 | 69445173 | T | 0.5716 | -0.0147 | 0.0017 | 2.00E-18 | 0.5654 | -0.0131 | 0.0068 | 0.0518 |
| rs6443750 | 3 | 181329682 | C | 0.8068 | 0.0148 | 0.0021 | 3.20E-12 | 0.7872 | 0.0008 | 0.0088 | 0.9306 |
| rs6448587 | 4 | 28561990 | C | 0.1891 | -0.0167 | 0.0023 | 2.30E-13 | 0.1765 | -0.0012 | 0.0086 | 0.8860 |
| rs6512302 | 20 | 62691550 | C | 0.7511 | 0.0142 | 0.0020 | 2.10E-12 | 0.7259 | 0.0110 | 0.0085 | 0.1955 |
| rs6545714 | 2 | 59307725 | A | 0.6139 | -0.0191 | 0.0017 | 9.10E-31 | 0.6041 | -0.0009 | 0.0067 | 0.8988 |
| rs6561943 | 13 | 58356761 | T | 0.2595 | 0.0119 | 0.0019 | 4.20E-10 | 0.2637 | 0.0080 | 0.0076 | 0.2867 |
| rs657452 | 1 | 49589847 | G | 0.6216 | -0.0188 | 0.0017 | 7.20E-29 | 0.6038 | 0.0029 | 0.0068 | 0.6664 |
| rs6587552 | 1 | 151018861 | G | 0.7591 | -0.0173 | 0.0020 | 1.60E-17 | 0.738 | 0.0056 | 0.0077 | 0.4650 |
| rs6591407 | 11 | 56914157 | A | 0.1861 | -0.0118 | 0.0021 | 1.90E-08 | 0.1853 | -0.0091 | 0.0085 | 0.2850 |
| rs6593688 | 1 | 96322205 | G | 0.3733 | 0.0137 | 0.0018 | 8.60E-15 | 0.381 | 0.0062 | 0.0068 | 0.3655 |
| rs6692586 | 1 | 23299906 | G | 0.832 | -0.0192 | 0.0023 | 1.10E-16 | 0.8191 | 0.0060 | 0.0090 | 0.5070 |
| rs6764533 | 3 | 196088464 | A | 0.359 | 0.0116 | 0.0018 | 1.40E-10 | 0.3667 | 0.0041 | 0.0069 | 0.5513 |
| rs6772756 | 3 | 182312152 | G | 0.3372 | -0.0104 | 0.0019 | 4.00E-08 | 0.3349 | -0.0133 | 0.0073 | 0.0703 |
| rs6785245 | 3 | 82647990 | C | 0.3969 | 0.0132 | 0.0017 | 4.00E-14 | 0.4066 | -0.0061 | 0.0067 | 0.3686 |
| rs6804842 | 3 | 25106437 | G | 0.572 | 0.0156 | 0.0017 | 3.60E-21 | 0.5751 | 0.0173 | 0.0067 | 0.0101 |
| rs6841761 | 4 | 25423538 | T | 0.5252 | -0.0131 | 0.0016 | 6.40E-16 | 0.5323 | -0.0123 | 0.0066 | 0.0636 |
| rs685870 | 11 | 64111928 | C | 0.7035 | 0.0120 | 0.0019 | 2.40E-10 | 0.6913 | 0.0002 | 0.0072 | 0.9807 |
| rs7025938 | 9 | 103088321 | G | 0.3187 | 0.0166 | 0.0019 | 3.70E-19 | 0.3135 | 0.0174 | 0.0071 | 0.0142 |
| rs7037266 | 9 | 6942940 | A | 0.3739 | -0.0112 | 0.0018 | 3.50E-10 | 0.3553 | -0.0078 | 0.0069 | 0.2602 |
| rs705217 | 1 | 34581472 | G | 0.3652 | -0.0102 | 0.0018 | 9.30E-09 | 0.3644 | -0.0138 | 0.0076 | 0.0683 |
| rs7138803 | 12 | 50247468 | A | 0.3772 | 0.0300 | 0.0017 | 2.30E-71 | 0.375 | 0.0077 | 0.0068 | 0.2618 |
| rs7148846 | 14 | 40133821 | G | 0.1896 | 0.0124 | 0.0022 | 2.20E-08 | 0.1839 | -0.0070 | 0.0085 | 0.4089 |
| rs7172627 | 15 | 31877690 | G | 0.4719 | 0.0117 | 0.0017 | 1.10E-11 | 0.484 | -0.0010 | 0.0067 | 0.8857 |

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|-----------|----|-----------|---|---------|---------|--------|----------|--------|---------|--------|--------|
| rs7196720 | 16 | 24534662 | C | 0.5068 | -0.0129 | 0.0017 | 7.30E-14 | 0.5234 | 0.0007 | 0.0067 | 0.9113 |
| rs7334078 | 13 | 99120484 | C | 0.2882 | -0.0121 | 0.0019 | 2.20E-10 | 0.279 | -0.0073 | 0.0074 | 0.3240 |
| rs7488867 | 12 | 103699685 | T | 0.2639 | -0.0204 | 0.0020 | 8.40E-24 | 0.2522 | -0.0016 | 0.0076 | 0.8328 |
| rs7519259 | 1 | 66434743 | A | 0.5356 | 0.0125 | 0.0017 | 3.80E-13 | 0.5313 | 0.0098 | 0.0066 | 0.1386 |
| rs7535528 | 1 | 2444414 | A | 0.3741 | -0.0152 | 0.0018 | 1.40E-16 | 0.3594 | -0.0025 | 0.0070 | 0.7169 |
| rs7550711 | 1 | 110082886 | T | 0.03058 | 0.0649 | 0.0050 | 3.20E-38 | 0.0289 | 0.0222 | 0.0203 | 0.2733 |
| rs7551507 | 1 | 74995225 | T | 0.5633 | -0.0184 | 0.0016 | 9.30E-30 | 0.5565 | -0.0025 | 0.0067 | 0.7130 |
| rs7599312 | 2 | 213413231 | A | 0.2652 | -0.0186 | 0.0019 | 6.90E-24 | 0.2749 | -0.0131 | 0.0075 | 0.0799 |
| rs7615297 | 3 | 156299313 | G | 0.1465 | -0.0149 | 0.0024 | 5.70E-10 | 0.1538 | -0.0044 | 0.0092 | 0.6309 |
| rs7637852 | 3 | 44041777 | G | 0.6951 | -0.0139 | 0.0019 | 1.70E-13 | 0.6831 | 0.0059 | 0.0073 | 0.4131 |
| rs765875 | 6 | 143185683 | T | 0.4808 | -0.0121 | 0.0017 | 3.00E-12 | 0.4849 | 0.0014 | 0.0065 | 0.8283 |
| rs7683836 | 4 | 180167906 | A | 0.5405 | -0.0114 | 0.0017 | 6.30E-11 | 0.5415 | -0.0088 | 0.0067 | 0.1897 |
| rs768840 | 14 | 73143457 | A | 0.4183 | 0.0114 | 0.0018 | 2.00E-10 | 0.4314 | 0.0034 | 0.0069 | 0.6256 |
| rs7694732 | 4 | 115124089 | G | 0.4378 | -0.0099 | 0.0017 | 8.70E-09 | 0.4275 | -0.0024 | 0.0067 | 0.7232 |
| rs7704281 | 5 | 50591460 | A | 0.04531 | 0.0271 | 0.0041 | 6.50E-11 | 0.0471 | 0.0336 | 0.0160 | 0.0352 |
| rs7715256 | 5 | 153537893 | T | 0.5781 | -0.0166 | 0.0016 | 2.20E-24 | 0.5789 | -0.0108 | 0.0067 | 0.1073 |
| rs7730004 | 5 | 43191033 | T | 0.6693 | 0.0148 | 0.0018 | 9.10E-16 | 0.6601 | 0.0152 | 0.0071 | 0.0311 |
| rs7730898 | 5 | 170459675 | A | 0.729 | 0.0168 | 0.0018 | 4.50E-20 | 0.7141 | -0.0035 | 0.0075 | 0.6409 |
| rs774246 | 7 | 26990816 | G | 0.1444 | 0.0153 | 0.0025 | 5.40E-10 | 0.141 | -0.0060 | 0.0096 | 0.5342 |
| rs7780752 | 7 | 93241640 | C | 0.36 | 0.0139 | 0.0018 | 1.00E-14 | 0.3602 | 0.0055 | 0.0070 | 0.4332 |
| rs7788008 | 7 | 112972483 | A | 0.4445 | -0.0157 | 0.0017 | 1.10E-19 | 0.4339 | 0.0033 | 0.0067 | 0.6164 |
| rs7811342 | 7 | 138794618 | C | 0.1058 | -0.0197 | 0.0029 | 1.10E-11 | 0.0991 | -0.0076 | 0.0109 | 0.4863 |
| rs7819514 | 8 | 93204442 | A | 0.3216 | -0.0107 | 0.0018 | 5.70E-09 | 0.3333 | -0.0136 | 0.0071 | 0.0548 |
| rs7826312 | 8 | 32400115 | C | 0.5879 | 0.0104 | 0.0017 | 4.90E-10 | 0.5842 | -0.0016 | 0.0067 | 0.8108 |
| rs7844647 | 8 | 34503776 | C | 0.2681 | -0.0123 | 0.0018 | 2.80E-11 | 0.2724 | -0.0027 | 0.0074 | 0.7188 |
| rs7869771 | 9 | 94180627 | C | 0.2647 | -0.0140 | 0.0019 | 4.90E-13 | 0.2679 | 0.0025 | 0.0075 | 0.7421 |
| rs7871866 | 9 | 131027982 | C | 0.1531 | 0.0187 | 0.0024 | 2.30E-14 | 0.1542 | 0.0196 | 0.0093 | 0.0346 |
| rs7899106 | 10 | 87410904 | G | 0.04777 | 0.0331 | 0.0037 | 1.00E-18 | 0.0555 | 0.0152 | 0.0150 | 0.3098 |
| rs7925214 | 11 | 130794253 | T | 0.5133 | 0.0147 | 0.0018 | 4.40E-17 | 0.5325 | 0.0118 | 0.0068 | 0.0819 |
| rs7998796 | 13 | 81020036 | G | 0.3373 | 0.0105 | 0.0018 | 1.10E-08 | 0.334 | 0.0041 | 0.0070 | 0.5590 |
| rs8027205 | 15 | 98280959 | G | 0.3967 | -0.0108 | 0.0018 | 1.40E-09 | 0.3821 | -0.0056 | 0.0069 | 0.4126 |
| rs8036040 | 15 | 36402716 | A | 0.4932 | 0.0109 | 0.0017 | 2.70E-10 | 0.4981 | -0.0025 | 0.0066 | 0.7103 |
| rs806600 | 5 | 172914939 | G | 0.475 | -0.0095 | 0.0017 | 3.30E-08 | 0.4634 | -0.0005 | 0.0067 | 0.9350 |
| rs8071182 | 17 | 55336155 | A | 0.1735 | 0.0133 | 0.0022 | 2.10E-09 | 0.1863 | -0.0025 | 0.0087 | 0.7742 |
| rs8090983 | 18 | 52586691 | G | 0.3314 | 0.0118 | 0.0018 | 2.00E-10 | 0.338 | 0.0046 | 0.0070 | 0.5122 |
| rs8097783 | 18 | 58051294 | A | 0.07554 | -0.0389 | 0.0031 | 7.20E-36 | 0.0761 | -0.0243 | 0.0123 | 0.0486 |
| rs8123881 | 20 | 15819495 | G | 0.1299 | 0.0196 | 0.0024 | 4.40E-16 | 0.1376 | 0.0117 | 0.0097 | 0.2237 |
| rs8181823 | 13 | 65477940 | C | 0.7614 | 0.0127 | 0.0020 | 4.10E-10 | 0.74 | -0.0068 | 0.0077 | 0.3816 |
| rs818524 | 1 | 85201228 | C | 0.6939 | 0.0106 | 0.0019 | 3.40E-08 | 0.693 | 0.0020 | 0.0074 | 0.7816 |
| rs825688 | 16 | 73595718 | T | 0.456 | -0.0095 | 0.0017 | 4.70E-08 | 0.4492 | -0.0032 | 0.0067 | 0.6351 |
| rs845084 | 10 | 125220036 | A | 0.2678 | 0.0140 | 0.0020 | 1.30E-12 | 0.2663 | 0.0073 | 0.0075 | 0.3274 |
| rs852056 | 20 | 17102860 | C | 0.7584 | -0.0128 | 0.0020 | 1.80E-10 | 0.7493 | -0.0098 | 0.0078 | 0.2135 |
| rs872281 | 14 | 40834177 | T | 0.1728 | -0.0151 | 0.0023 | 4.70E-11 | 0.1758 | -0.0112 | 0.0087 | 0.2005 |
| rs895330 | 19 | 4060707 | G | 0.1924 | -0.0201 | 0.0023 | 5.50E-19 | 0.1922 | -0.0071 | 0.0088 | 0.4173 |
| rs9294260 | 6 | 83433228 | A | 0.4731 | 0.0147 | 0.0016 | 1.80E-19 | 0.4745 | -0.0039 | 0.0067 | 0.5588 |
| rs930295 | 2 | 50233352 | C | 0.8417 | -0.0211 | 0.0023 | 1.00E-19 | 0.812 | -0.0079 | 0.0090 | 0.3771 |
| rs9304665 | 19 | 47602577 | A | 0.7633 | 0.0229 | 0.0020 | 2.90E-29 | 0.7481 | -0.0068 | 0.0080 | 0.3983 |
| rs9362662 | 6 | 90296588 | G | 0.5201 | -0.0112 | 0.0017 | 1.20E-10 | 0.5091 | -0.0103 | 0.0066 | 0.1190 |
| rs9367368 | 6 | 13189275 | C | 0.3033 | -0.0121 | 0.0018 | 1.00E-11 | 0.3065 | -0.0028 | 0.0072 | 0.6987 |

| | | | | | | | | | | | |
|-----------|----|-----------|---|---------|---------|--------|----------|--------|---------|--------|--------|
| rs9408882 | 9 | 118664402 | A | 0.4594 | -0.0093 | 0.0016 | 1.30E-08 | 0.4629 | 0.0085 | 0.0066 | 0.2017 |
| rs946824 | 1 | 243684019 | C | 0.859 | -0.0206 | 0.0026 | 1.10E-15 | 0.8525 | 0.0104 | 0.0101 | 0.3058 |
| rs947612 | 6 | 73738661 | A | 0.7516 | -0.0116 | 0.0020 | 5.60E-09 | 0.7334 | 0.0020 | 0.0076 | 0.7924 |
| rs9478671 | 6 | 155987825 | G | 0.2087 | 0.0120 | 0.0021 | 1.70E-08 | 0.2029 | 0.0088 | 0.0083 | 0.2869 |
| rs9538162 | 13 | 59265043 | C | 0.4138 | -0.0156 | 0.0018 | 4.80E-19 | 0.4355 | -0.0037 | 0.0067 | 0.5850 |
| rs9547153 | 13 | 85903717 | G | 0.3839 | 0.0098 | 0.0017 | 8.70E-09 | 0.3896 | -0.0025 | 0.0068 | 0.7101 |
| rs9688431 | 6 | 73922654 | C | 0.06034 | -0.0231 | 0.0035 | 2.40E-11 | 0.0583 | -0.0122 | 0.0140 | 0.3827 |
| rs9816226 | 3 | 185834499 | T | 0.8199 | 0.0323 | 0.0021 | 1.60E-52 | 0.7939 | -0.0018 | 0.0086 | 0.8373 |
| rs9845966 | 3 | 13433158 | G | 0.5479 | -0.0105 | 0.0017 | 2.50E-10 | 0.5448 | 0.0021 | 0.0066 | 0.7509 |
| rs9951619 | 18 | 56882326 | G | 0.7643 | 0.0156 | 0.0020 | 1.40E-15 | 0.7451 | 0.0010 | 0.0078 | 0.8934 |
| rs998732 | 19 | 19378671 | G | 0.1578 | -0.0171 | 0.0022 | 2.00E-14 | 0.1579 | 0.0050 | 0.0092 | 0.5875 |
| rs9989141 | 14 | 94006257 | T | 0.6387 | 0.0162 | 0.0017 | 3.60E-21 | 0.6326 | 0.0087 | 0.0069 | 0.2095 |

Abbreviations: SNP, single-nucleotide polymorphism; Chr, chromosome; Pos, position; EA, effect allele; EAF, effect allele frequency; SE, standard error; AF, atrial fibrillation.

Table S2.The combined effect estimators of the remaining 302 SNPs obtained by IVW after removing each SNP

| SNP | OR | P | SNP | OR | P | SNP | OR | P |
|------------|------|----------|------------|------|----------|-----------|------|----------|
| rs10009336 | 1.43 | 3.57E-34 | rs17203016 | 1.42 | 1.54E-33 | rs4818225 | 1.42 | 7.41E-34 |
| rs1006896 | 1.43 | 1.25E-34 | rs17238110 | 1.42 | 7.94E-34 | rs4820408 | 1.42 | 5.80E-34 |
| rs10132280 | 1.42 | 1.27E-33 | rs17311369 | 1.43 | 4.05E-34 | rs4858193 | 1.43 | 1.58E-34 |
| rs10169594 | 1.42 | 5.86E-34 | rs17399237 | 1.42 | 5.73E-34 | rs4864201 | 1.42 | 1.22E-33 |
| rs10197031 | 1.42 | 2.22E-33 | rs17424296 | 1.42 | 8.20E-34 | rs4880341 | 1.42 | 7.04E-34 |
| rs10243319 | 1.43 | 2.79E-34 | rs17425707 | 1.42 | 5.21E-34 | rs4906908 | 1.42 | 9.42E-34 |
| rs10247983 | 1.43 | 3.41E-34 | rs17446257 | 1.43 | 3.11E-34 | rs491711 | 1.42 | 6.97E-34 |
| rs10248136 | 1.43 | 3.69E-34 | rs17499593 | 1.42 | 5.55E-34 | rs4929923 | 1.43 | 4.56E-34 |
| rs10269783 | 1.43 | 2.19E-34 | rs175165 | 1.42 | 1.03E-33 | rs4936175 | 1.43 | 3.52E-34 |
| rs1048932 | 1.43 | 4.60E-34 | rs17535749 | 1.42 | 5.98E-34 | rs4954638 | 1.43 | 4.32E-34 |
| rs10742752 | 1.42 | 6.18E-34 | rs17551974 | 1.42 | 1.24E-33 | rs4986044 | 1.43 | 2.41E-34 |
| rs10768994 | 1.43 | 2.65E-34 | rs17636031 | 1.42 | 7.16E-34 | rs538579 | 1.43 | 3.24E-34 |
| rs10795422 | 1.43 | 1.49E-34 | rs17663412 | 1.42 | 4.98E-34 | rs543874 | 1.43 | 6.08E-34 |
| rs10811871 | 1.42 | 5.06E-34 | rs17710386 | 1.42 | 5.56E-34 | rs559231 | 1.43 | 2.43E-34 |
| rs10858334 | 1.43 | 4.07E-34 | rs1830074 | 1.43 | 3.01E-34 | rs577525 | 1.42 | 1.12E-33 |
| rs10867256 | 1.42 | 4.75E-34 | rs1836303 | 1.42 | 5.39E-34 | rs592483 | 1.42 | 1.22E-33 |
| rs10914462 | 1.42 | 4.95E-34 | rs1843328 | 1.42 | 4.80E-34 | rs6443750 | 1.43 | 3.29E-34 |
| rs10920678 | 1.43 | 3.52E-34 | rs1863652 | 1.42 | 4.93E-34 | rs6448587 | 1.43 | 3.23E-34 |
| rs10938397 | 1.42 | 9.34E-33 | rs1884389 | 1.42 | 4.53E-34 | rs6512302 | 1.42 | 6.74E-34 |
| rs10942267 | 1.43 | 1.85E-34 | rs1885728 | 1.42 | 4.86E-34 | rs6545714 | 1.43 | 2.55E-34 |
| rs10953740 | 1.42 | 2.43E-33 | rs1891216 | 1.43 | 1.97E-34 | rs6561943 | 1.42 | 5.74E-34 |
| rs10968114 | 1.43 | 1.61E-34 | rs1896767 | 1.42 | 7.54E-34 | rs657452 | 1.43 | 1.50E-34 |
| rs10984756 | 1.43 | 1.54E-34 | rs1927790 | 1.43 | 1.42E-34 | rs6587552 | 1.43 | 1.50E-34 |
| rs11030618 | 1.42 | 5.35E-34 | rs1937683 | 1.42 | 7.42E-34 | rs6591407 | 1.42 | 5.60E-34 |
| rs11105839 | 1.42 | 4.78E-34 | rs1948080 | 1.42 | 4.95E-34 | rs6593688 | 1.42 | 5.54E-34 |
| rs11118308 | 1.43 | 1.82E-34 | rs1982441 | 1.43 | 4.36E-34 | rs6692586 | 1.43 | 1.67E-34 |
| rs1112613 | 1.42 | 6.64E-34 | rs1982725 | 1.43 | 3.83E-34 | rs6764533 | 1.43 | 4.45E-34 |
| rs11150911 | 1.42 | 8.54E-34 | rs2007231 | 1.43 | 2.08E-34 | rs6772756 | 1.42 | 8.25E-34 |
| rs11165643 | 1.43 | 5.47E-34 | rs200810 | 1.43 | 4.59E-34 | rs6785245 | 1.43 | 1.53E-34 |
| rs11170468 | 1.43 | 4.24E-34 | rs2009416 | 1.43 | 3.91E-34 | rs6804842 | 1.42 | 2.24E-33 |
| rs11173522 | 1.42 | 5.66E-34 | rs2051559 | 1.43 | 3.25E-34 | rs6841761 | 1.42 | 1.08E-33 |
| rs11185111 | 1.42 | 5.86E-34 | rs208015 | 1.42 | 8.35E-34 | rs685870 | 1.43 | 3.17E-34 |
| rs11251352 | 1.43 | 2.72E-34 | rs2124499 | 1.42 | 7.64E-34 | rs7025938 | 1.42 | 2.02E-33 |
| rs11505821 | 1.42 | 5.89E-34 | rs2143253 | 1.43 | 3.22E-34 | rs7037266 | 1.42 | 6.06E-34 |
| rs11609659 | 1.42 | 6.38E-34 | rs2162524 | 1.42 | 8.70E-34 | rs705217 | 1.42 | 7.91E-34 |
| rs11615578 | 1.43 | 2.58E-34 | rs217671 | 1.42 | 5.69E-34 | rs7138803 | 1.43 | 6.45E-34 |
| rs11656076 | 1.42 | 9.06E-34 | rs2228213 | 1.42 | 6.92E-34 | rs7148846 | 1.43 | 2.12E-34 |
| rs11672660 | 1.43 | 1.82E-34 | rs2246012 | 1.42 | 8.06E-34 | rs7172627 | 1.43 | 2.80E-34 |
| rs11738695 | 1.42 | 1.10E-33 | rs2283093 | 1.42 | 5.38E-34 | rs7196720 | 1.43 | 2.74E-34 |
| rs11739877 | 1.42 | 1.13E-33 | rs2306537 | 1.42 | 1.30E-33 | rs7334078 | 1.42 | 5.59E-34 |
| rs11855853 | 1.43 | 3.63E-34 | rs2317299 | 1.42 | 8.64E-34 | rs7488867 | 1.43 | 2.88E-34 |
| rs1187352 | 1.42 | 4.58E-34 | rs2357760 | 1.42 | 1.90E-33 | rs7519259 | 1.42 | 8.08E-34 |
| rs11951673 | 1.43 | 4.55E-34 | rs2361988 | 1.43 | 2.72E-34 | rs7535528 | 1.43 | 3.64E-34 |
| rs12033257 | 1.42 | 9.48E-34 | rs2365389 | 1.43 | 5.73E-34 | rs7550711 | 1.43 | 6.79E-34 |
| rs12041258 | 1.43 | 2.01E-34 | rs2367112 | 1.43 | 4.06E-34 | rs7551507 | 1.43 | 3.33E-34 |
| rs1218822 | 1.43 | 4.48E-34 | rs2423668 | 1.43 | 2.01E-34 | rs7599312 | 1.42 | 1.18E-33 |
| rs12334877 | 1.43 | 4.18E-34 | rs2425840 | 1.43 | 3.93E-34 | rs7615297 | 1.43 | 4.16E-34 |

| | | | | | | | | |
|------------|------|----------|-----------|------|----------|-----------|------|----------|
| rs12364470 | 1.42 | 9.87E-34 | rs2429150 | 1.43 | 4.32E-34 | rs7637852 | 1.43 | 1.70E-34 |
| rs12416812 | 1.43 | 2.55E-34 | rs2479958 | 1.43 | 3.10E-34 | rs765875 | 1.43 | 2.59E-34 |
| rs1241986 | 1.42 | 5.85E-34 | rs2481665 | 1.42 | 7.47E-34 | rs7683836 | 1.42 | 6.87E-34 |
| rs12422552 | 1.43 | 3.41E-34 | rs2543132 | 1.43 | 2.26E-34 | rs768840 | 1.43 | 4.19E-34 |
| rs12546578 | 1.43 | 1.39E-34 | rs2605603 | 1.42 | 9.97E-34 | rs7694732 | 1.43 | 3.92E-34 |
| rs12564992 | 1.43 | 4.09E-34 | rs2608703 | 1.43 | 4.63E-34 | rs7704281 | 1.42 | 1.10E-33 |
| rs12629015 | 1.42 | 1.25E-33 | rs262130 | 1.43 | 1.59E-34 | rs7715256 | 1.42 | 1.05E-33 |
| rs1266874 | 1.43 | 3.23E-34 | rs2693826 | 1.42 | 8.39E-34 | rs7730004 | 1.42 | 1.38E-33 |
| rs12675063 | 1.43 | 3.87E-34 | rs273504 | 1.42 | 6.94E-34 | rs7730898 | 1.43 | 1.86E-34 |
| rs1268065 | 1.42 | 1.17E-33 | rs2791653 | 1.43 | 3.85E-34 | rs774246 | 1.43 | 2.22E-34 |
| rs12718572 | 1.42 | 1.07E-33 | rs2832283 | 1.43 | 2.04E-34 | rs7780752 | 1.42 | 5.06E-34 |
| rs12762034 | 1.43 | 1.54E-34 | rs2861683 | 1.42 | 2.11E-33 | rs7788008 | 1.43 | 1.74E-34 |
| rs1285997 | 1.42 | 9.50E-34 | rs287104 | 1.42 | 5.48E-34 | rs7811342 | 1.42 | 4.75E-34 |
| rs12888545 | 1.43 | 2.35E-34 | rs2875762 | 1.42 | 1.29E-33 | rs7819514 | 1.42 | 9.01E-34 |
| rs12905439 | 1.43 | 3.75E-34 | rs2931434 | 1.43 | 3.55E-34 | rs7826312 | 1.43 | 2.80E-34 |
| rs12922346 | 1.42 | 5.71E-34 | rs2943465 | 1.42 | 1.14E-33 | rs7844647 | 1.43 | 3.88E-34 |
| rs12939549 | 1.43 | 5.41E-34 | rs294704 | 1.43 | 3.59E-34 | rs7869771 | 1.43 | 2.39E-34 |
| rs1296328 | 1.42 | 3.10E-33 | rs3007105 | 1.42 | 9.51E-34 | rs7871866 | 1.42 | 1.30E-33 |
| rs13047416 | 1.43 | 3.00E-34 | rs33500 | 1.42 | 1.31E-33 | rs7899106 | 1.42 | 6.07E-34 |
| rs13069244 | 1.42 | 5.65E-34 | rs339991 | 1.42 | 1.00E-33 | rs7925214 | 1.42 | 1.05E-33 |
| rs13110266 | 1.42 | 1.12E-33 | rs349088 | 1.43 | 2.90E-34 | rs7998796 | 1.42 | 4.42E-34 |
| rs13147390 | 1.43 | 3.01E-34 | rs3731695 | 1.43 | 4.49E-34 | rs8027205 | 1.42 | 5.01E-34 |
| rs13174863 | 1.43 | 2.68E-34 | rs3732084 | 1.42 | 6.11E-34 | rs8036040 | 1.43 | 2.50E-34 |
| rs13191362 | 1.42 | 1.03E-33 | rs3736485 | 1.43 | 1.84E-34 | rs806600 | 1.43 | 3.40E-34 |
| rs1320903 | 1.43 | 2.30E-34 | rs3749897 | 1.43 | 4.36E-34 | rs8071182 | 1.43 | 2.74E-34 |
| rs1321432 | 1.42 | 1.66E-33 | rs3764835 | 1.43 | 3.26E-34 | rs8090983 | 1.42 | 4.62E-34 |
| rs13250058 | 1.43 | 2.04E-34 | rs3772882 | 1.42 | 7.27E-34 | rs8097783 | 1.42 | 1.83E-33 |
| rs13263601 | 1.42 | 1.00E-33 | rs3800229 | 1.43 | 1.09E-34 | rs8123881 | 1.42 | 6.85E-34 |
| rs1327259 | 1.42 | 5.76E-34 | rs3800637 | 1.42 | 1.05E-33 | rs8181823 | 1.43 | 1.86E-34 |
| rs13287131 | 1.42 | 5.68E-34 | rs3806114 | 1.43 | 2.48E-34 | rs818524 | 1.43 | 3.75E-34 |
| rs1330052 | 1.43 | 3.49E-34 | rs3806572 | 1.43 | 2.02E-34 | rs825688 | 1.43 | 4.17E-34 |
| rs1365466 | 1.42 | 6.54E-34 | rs3807645 | 1.42 | 5.56E-34 | rs845084 | 1.42 | 5.71E-34 |
| rs1371108 | 1.42 | 5.16E-34 | rs380857 | 1.43 | 3.33E-34 | rs852056 | 1.42 | 6.55E-34 |
| rs1412235 | 1.42 | 9.93E-34 | rs38314 | 1.42 | 5.38E-34 | rs872281 | 1.42 | 6.82E-34 |
| rs1430387 | 1.42 | 7.73E-34 | rs3844598 | 1.43 | 1.89E-34 | rs895330 | 1.43 | 5.16E-34 |
| rs1431659 | 1.43 | 5.70E-34 | rs3902951 | 1.42 | 5.58E-34 | rs9294260 | 1.43 | 1.73E-34 |
| rs1445652 | 1.42 | 9.60E-34 | rs3904244 | 1.42 | 1.18E-33 | rs930295 | 1.42 | 5.48E-34 |
| rs1465900 | 1.42 | 9.24E-34 | rs3935648 | 1.42 | 1.10E-33 | rs9304665 | 1.43 | 9.20E-35 |
| rs1476322 | 1.42 | 4.97E-34 | rs3977755 | 1.43 | 3.45E-34 | rs9362662 | 1.42 | 7.97E-34 |
| rs1477199 | 1.42 | 1.75E-33 | rs4072917 | 1.42 | 6.24E-34 | rs9367368 | 1.43 | 3.93E-34 |
| rs1492767 | 1.43 | 3.48E-34 | rs4307239 | 1.43 | 1.43E-34 | rs9408882 | 1.43 | 1.71E-34 |
| rs1503526 | 1.43 | 4.58E-34 | rs4310573 | 1.43 | 3.32E-34 | rs946824 | 1.43 | 1.35E-34 |
| rs1522569 | 1.43 | 1.69E-34 | rs4358081 | 1.43 | 2.56E-34 | rs947612 | 1.43 | 2.78E-34 |
| rs1528435 | 1.42 | 1.27E-33 | rs4430672 | 1.42 | 6.65E-34 | rs9478671 | 1.42 | 5.63E-34 |
| rs1535660 | 1.42 | 8.24E-34 | rs4482463 | 1.42 | 6.42E-34 | rs9538162 | 1.43 | 4.18E-34 |
| rs1538247 | 1.43 | 3.00E-34 | rs4518345 | 1.43 | 4.02E-34 | rs9547153 | 1.43 | 2.70E-34 |
| rs156201 | 1.43 | 2.11E-34 | rs4556997 | 1.43 | 2.54E-34 | rs9688431 | 1.42 | 5.23E-34 |
| rs1624134 | 1.43 | 2.42E-34 | rs4589691 | 1.43 | 3.59E-34 | rs9816226 | 1.43 | 1.14E-34 |
| rs1656377 | 1.42 | 8.65E-34 | rs4639527 | 1.43 | 3.18E-34 | rs9845966 | 1.43 | 2.65E-34 |

| | | | | | | | | |
|------------|------|----------|-----------|------|----------|-----------|------|----------|
| rs1681740 | 1.43 | 3.36E-34 | rs4653017 | 1.42 | 4.76E-34 | rs9951619 | 1.43 | 3.17E-34 |
| rs16871902 | 1.42 | 5.58E-34 | rs4671328 | 1.43 | 1.35E-34 | rs998732 | 1.43 | 2.08E-34 |
| rs17014375 | 1.42 | 8.46E-34 | rs4722398 | 1.43 | 3.72E-34 | rs9989141 | 1.42 | 7.55E-34 |
| rs17033117 | 1.42 | 5.44E-34 | rs4783830 | 1.42 | 9.59E-34 | IVW | 1.43 | 3.72E-34 |
| rs17113297 | 1.42 | 1.25E-33 | rs4786903 | 1.43 | 3.66E-34 | | | |
| rs17119937 | 1.42 | 4.53E-34 | rs4800191 | 1.43 | 1.95E-34 | | | |

Abbreviations: SNP, single-nucleotide polymorphism; OR, odds ratio; IVW, inverse variance weighted.