**Table Supplement 2 Characteristics of the SNPs associated with SBP and AF**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SNP | EA | Other | EAF | Associations with SBP |  |  Associations with AF  | Management |
| allele | Beta | se |  P value |  |  Beta | se | P value |
| rs365990 | G | A | 0.369  | -0.017  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.000  | Exclude\* |
| rs2249105 | G | A | 0.361  | -0.018  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.000  |
| rs78744936 | A | G | 0.269  | 0.016  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.000  |
| rs2306526 | T | C | 0.525  | -0.016  | 0.002  | 0.000  |  | -0.001  | 0.000  | 0.000  |
| rs11874 | A | G | 0.137  | 0.027  | 0.004  | 0.000  |  | 0.001  | 0.000  | 0.001  |
| rs9888615 | C | T | 0.711  | 0.017  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.002  |
| rs2627316 | G | A | 0.471  | 0.019  | 0.002  | 0.000  |  | 0.001  | 0.000  | 0.003  |
| rs10857147 | T | A | 0.292  | 0.037  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.005  |
| rs6026742 | A | G | 0.118  | 0.032  | 0.004  | 0.000  |  | 0.001  | 0.000  | 0.006  |
| rs2052691 | A | G | 0.288  | 0.019  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.010  |
| rs55938136 | G | A | 0.226  | -0.017  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.010  |
| rs60691990 | C | T | 0.343  | -0.020  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.011  |
| rs2643826 | T | C | 0.453  | 0.016  | 0.002  | 0.000  |  | 0.001  | 0.000  | 0.012  |
| rs2177843 | T | C | 0.146  | 0.024  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.014  |
| rs138110118 | G | T | 0.114  | -0.024  | 0.004  | 0.000  |  | 0.001  | 0.000  | 0.017  |
| rs144356415 | G | A | 0.040  | 0.036  | 0.006  | 0.000  |  | -0.001  | 0.001  | 0.023  |
| rs79621605 | C | T | 0.034  | -0.037  | 0.007  | 0.000  |  | 0.001  | 0.001  | 0.027  |
| rs488834 | T | C | 0.767  | -0.017  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.032  |
| rs75989961 | G | T | 0.082  | 0.025  | 0.004  | 0.000  |  | 0.001  | 0.000  | 0.032  |
| rs28667801 | T | A | 0.406  | 0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.035  |
| rs1543270 | T | C | 0.455  | -0.016  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.036  |
| rs6734118 | A | C | 0.216  | -0.019  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.039  |
| rs6461992 | G | A | 0.927  | 0.036  | 0.005  | 0.000  |  | 0.001  | 0.000  | 0.050  | include |
| rs3211995 | A | G | 0.159  | -0.020  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.052  |
| rs116734066 | T | C | 0.093  | -0.028  | 0.004  | 0.000  |  | -0.001  | 0.000  | 0.053  |
| rs17677603 | G | A | 0.395  | 0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.054  |
| rs6031400 | T | C | 0.160  | 0.019  | 0.003  | 0.000  |  | 0.001  | 0.000  | 0.055  |
| rs57301765 | A | G | 0.154  | 0.025  | 0.003  | 0.000  |  | -0.001  | 0.000  | 0.067  |
| rs141878088 | T | C | 0.023  | 0.002  | 0.000  | 0.000  |  | 0.002  | 0.001  | 0.081  |
| rs12258967 | G | C | 0.298  | -0.031  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.087  |
| rs604723 | C | T | 0.724  | 0.034  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.093  |
| rs4767332 | A | C | 0.581  | 0.015  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.096  |
| rs1229984 | C | T | 0.978  | 0.052  | 0.008  | 0.000  |  | 0.001  | 0.001  | 0.100  |
| rs35021474 | G | C | 0.617  | -0.022  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.100  |
| rs35443 | C | G | 0.383  | -0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.110  |
| rs2288276 | C | G | 0.897  | 0.024  | 0.004  | 0.000  |  | 0.001  | 0.000  | 0.120  |
| rs2469997 | C | G | 0.815  | -0.020  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.120  |
| rs55857306 | A | G | 0.164  | -0.044  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.120  |
| rs62481856 | A | G | 0.197  | 0.044  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.120  |
| rs7753358 | A | T | 0.487  | 0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.120  |
| rs11641308 | C | T | 0.653  | 0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.130  |
| rs1436138 | G | A | 0.358  | -0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.140  |
| rs55925664 | A | T | 0.186  | 0.026  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.140  |
| rs1644318 | C | T | 0.385  | 0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.150  |
| rs6911827 | T | C | 0.454  | 0.015  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.150  |
| rs10048404 | T | C | 0.367  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.160  |
| rs2076328 | T | G | 0.500  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.160  |
| rs146408037 | A | C | 0.002  | 0.006  | 0.001  | 0.000  |  | -0.004  | 0.003  | 0.160  |
| rs35593046 | T | G | 0.270  | -0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.190  |
| rs3817581 | T | C | 0.493  | 0.019  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.190  |
| rs9349379 | G | A | 0.405  | -0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.190  |
| rs11214436 | T | G | 0.382  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.200  |
| rs1438898 | C | A | 0.251  | 0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.200  |
| rs17011002 | G | C | 0.141  | 0.029  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.210  |
| rs6271 | T | C | 0.074  | -0.029  | 0.005  | 0.000  |  | 0.001  | 0.000  | 0.210  |
| rs709668 | G | A | 0.798  | 0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.220  |
| rs11070245 | G | T | 0.530  | 0.017  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.230  |
| rs12714414 | C | T | 0.160  | -0.020  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.230  |
| rs17759661 | A | C | 0.498  | 0.018  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.240  |
| rs167479 | T | G | 0.470  | -0.027  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.250  |
| rs2977334 | T | G | 0.595  | 0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.250  |
| rs7798991 | C | T | 0.262  | 0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.250  |
| rs11191580 | C | T | 0.077  | -0.051  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.260  |
| rs4639796 | A | G | 0.159  | 0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.260  |
| rs73046792 | A | G | 0.165  | -0.024  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.260  |
| rs11629120 | C | T | 0.414  | 0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.270  |
| rs2301597 | C | T | 0.576  | -0.023  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.270  |
| rs2782980 | C | T | 0.722  | 0.020  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.270  |
| rs4759062 | T | C | 0.298  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.280  |
| rs144425491 | A | G | 0.007  | 0.004  | 0.001  | 0.000  |  | 0.002  | 0.002  | 0.289  |
| rs17535443 | A | G | 0.277  | -0.022  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.290  |
| rs2423514 | G | A | 0.463  | -0.017  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.300  |
| rs268263 | A | T | 0.754  | 0.030  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.300  |
| rs35224044 | T | C | 0.585  | 0.015  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.300  |
| rs10269774 | A | G | 0.324  | -0.021  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.310  |
| rs12656497 | C | T | 0.596  | 0.032  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.310  |
| rs2971608 | C | T | 0.221  | 0.021  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.310  |
| rs2493296 | T | C | 0.137  | 0.024  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.320  |
| rs1047891 | A | C | 0.316  | -0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.330  |
| rs2721800 | C | G | 0.181  | -0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.330  |
| rs78473917 | C | T | 0.149  | -0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.340  |
| rs10883948 | T | G | 0.504  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.350  |
| rs17056301 | C | T | 0.254  | 0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.350  |
| rs2004776 | T | C | 0.240  | 0.020  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.370  |
| rs2240980 | G | C | 0.293  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.370  |
| rs10817007 | G | T | 0.128  | 0.022  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.380  |
| rs6733889 | C | T | 0.623  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.380  |
| rs2102397 | C | A | 0.499  | -0.018  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.390  |
| rs2274224 | C | G | 0.432  | -0.025  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.390  |
| rs8121509 | C | T | 0.452  | -0.016  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.390  |
| rs12694861 | A | G | 0.605  | 0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.400  |
| rs4930676 | T | C | 0.108  | -0.024  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.420  |
| rs9476307 | G | A | 0.411  | -0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.430  |
| rs262986 | A | G | 0.468  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.450  |
| rs34896506 | C | T | 0.177  | 0.021  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.450  |
| rs210630 | G | A | 0.501  | -0.016  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.470  |
| rs7938342 | A | T | 0.584  | 0.025  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.470  |
| rs11527181 | G | A | 0.434  | -0.018  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.480  |
| rs2447607 | T | C | 0.618  | 0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.480  |
| rs4480845 | C | T | 0.640  | -0.020  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.480  |
| rs2472299 | G | A | 0.728  | -0.022  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.500  |
| rs10029530 | T | A | 0.659  | -0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.510  |
| rs11616710 | T | C | 0.101  | 0.026  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.510  |
| rs3796205 | C | G | 0.351  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.510  |
| rs10853912 | T | C | 0.399  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.520  |
| rs1925148 | G | A | 0.560  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.520  |
| rs6504213 | C | T | 0.592  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.530  |
| rs75558191 | T | C | 0.135  | 0.001  | 0.000  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs1530558 | C | T | 0.136  | -0.023  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs2303083 | A | G | 0.195  | -0.024  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs3184504 | C | T | 0.518  | -0.021  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs4843748 | A | G | 0.669  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs691830 | G | A | 0.477  | 0.017  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs7123754 | C | T | 0.327  | -0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.550  |
| rs4835266 | C | T | 0.484  | -0.015  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.570  |
| rs1813742 | T | C | 0.588  | 0.018  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.590  |
| rs6544667 | T | C | 0.383  | -0.014  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.590  |
| rs786910 | G | C | 0.589  | -0.016  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.590  |
| rs10769253 | A | G | 0.177  | -0.024  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.610  |
| rs13016772 | T | C | 0.762  | 0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.610  |
| rs13154549 | G | A | 0.068  | 0.030  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.610  |
| rs158172 | G | A | 0.219  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.620  |
| rs6690557 | G | T | 0.284  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.620  |
| rs9294987 | C | T | 0.502  | 0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.630  |
| rs6768542 | A | G | 0.158  | -0.021  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.640  |
| rs73437338 | C | T | 0.167  | -0.038  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.650  |
| rs743395 | T | C | 0.375  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.650  |
| rs62368019 | C | T | 0.290  | 0.016  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.660  |
| rs7765526 | G | A | 0.542  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.660  |
| rs2892796 | A | G | 0.078  | -0.027  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.670  |
| rs34727427 | C | T | 0.319  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.670  |
| rs71654213 | T | C | 0.385  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.670  |
| rs6983129 | A | C | 0.522  | -0.020  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.680  |
| rs73563812 | T | G | 0.236  | -0.021  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.680  |
| rs74826317 | G | A | 0.028  | -0.051  | 0.007  | 0.000  |  | 0.000  | 0.001  | 0.680  |
| rs2017199 | A | G | 0.301  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.700  |
| rs3790604 | A | C | 0.074  | 0.037  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.700  |
| rs57946343 | C | T | 0.152  | -0.030  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.700  |
| rs4736135 | T | C | 0.714  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.710  |
| rs35479618 | A | G | 0.017  | 0.070  | 0.009  | 0.000  |  | 0.000  | 0.001  | 0.730  |
| rs9385405 | C | G | 0.436  | 0.023  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.730  |
| rs10883543 | T | G | 0.888  | 0.031  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.740  |
| rs10409243 | T | C | 0.602  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.750  |
| rs17173238 | G | A | 0.286  | 0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.800  |
| rs2004283 | G | T | 0.578  | -0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.800  |
| rs6732308 | G | A | 0.208  | -0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.800  |
| rs75391241 | G | A | 0.072  | 0.028  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.800  |
| rs3826537 | G | A | 0.428  | 0.014  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.830  |
| rs11170386 | T | C | 0.288  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.840  |
| rs12967060 | T | C | 0.267  | 0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.850  |
| rs7200432 | A | G | 0.300  | -0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.850  |
| rs77870048 | T | C | 0.053  | 0.054  | 0.005  | 0.000  |  | 0.000  | 0.001  | 0.850  |
| rs13436194 | G | A | 0.426  | -0.019  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.860  |
| rs79349366 | T | C | 0.033  | -0.041  | 0.007  | 0.000  |  | 0.000  | 0.001  | 0.860  |
| rs62434129 | T | A | 0.071  | -0.030  | 0.005  | 0.000  |  | 0.000  | 0.000  | 0.870  |
| rs73098804 | A | T | 0.130  | 0.021  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.870  |
| rs1052486 | G | A | 0.475  | 0.019  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.880  |
| rs4932373 | C | A | 0.326  | 0.029  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.880  |
| rs7439366 | C | T | 0.455  | 0.015  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.890  |
| rs1779240 | A | G | 0.764  | -0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.900  |
| rs1887320 | A | G | 0.477  | 0.019  | 0.002  | 0.000  |  | 0.000  | 0.000  | 0.910  |
| rs1000423 | T | C | 0.735  | 0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.920  |
| rs2379829 | C | G | 0.733  | -0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.920  |
| rs4937515 | C | G | 0.595  | -0.020  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.940  |
| rs56092448 | T | C | 0.114  | 0.022  | 0.004  | 0.000  |  | 0.000  | 0.000  | 0.940  |
| rs231708 | C | G | 0.687  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.950  |
| rs3781885 | T | C | 0.313  | -0.015  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.950  |
| rs137923903 | T | C | 0.013  | -0.063  | 0.011  | 0.000  |  | 0.000  | 0.001  | 0.960  |
| rs891511 | A | G | 0.319  | -0.018  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.960  |
| rs11874246 | T | C | 0.294  | 0.017  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.970  |
| rs1250259 | A | T | 0.736  | -0.019  | 0.003  | 0.000  |  | 0.000  | 0.000  | 0.970  |

SBP, Systolic blood pressure; AF, Atrial fibrillation; SNP, single-nucleotide polymorphism; OR, odds ratio; CI, confidence interval.

\*Exclude if P value <0.05.