

Supplementary Table 5. Minor allele frequencies and imputation scores (info) for tested SNPs.

| Outcome    | SNP        | Position (BP) | Allele 1 | Allele 2 | MAF      | Minor Allele | Info score |
|------------|------------|---------------|----------|----------|----------|--------------|------------|
| Age        | rs1052133  | 9798773       | C        | G        | 0.23     | G            | 1          |
|            | rs710521   | 189645933     | T        | C        | 0.27     | C            | 1          |
|            | rs798766   | 1734239       | T        | C        | 0.19     | T            | 1          |
|            | rs884225   | 55274084      | T        | C        | 0.10     | C            | 1          |
|            | rs1057868  | 75615006      | C        | T        | 0.28     | T            | 1          |
|            | rs41515546 | 125998959     | T        | C        | 0.15     | C            | 0.99774    |
|            | rs17149636 | 126018952     | A        | G        | 0.15     | G            | 0.99804    |
|            | rs17149628 | 126006965     | C        | T        | 0.15     | T            | 0.997627   |
|            | rs12666814 | 125979540     | C        | T        | 0.14     | T            | 0.993985   |
|            | rs73223045 | 125992106     | G        | C        | 0.15     | C            | 0.99768    |
|            | rs12673089 | 126006133     | C        | T        | 0.15     | T            | 0.996984   |
|            | rs17149580 | 125978216     | A        | G        | 0.15     | G            | 0.991705   |
|            | rs17149630 | 126006996     | C        | T        | 0.15     | T            | 0.997626   |
|            | rs7003908  | 48770702      | C        | A        | 0.33     | C            | 0.824001   |
|            | rs710886   | 128026860     | C        | T        | 0.37     | T            | 0.998081   |
|            | rs9642880  | 128718068     | G        | T        | 0.46     | T            | 1          |
|            | rs9344     | 69462910      | G        | A        | 0.44     | A            | 1          |
|            | rs217727   | 2016908       | G        | A        | 0.18     | A            | 0.974512   |
|            | rs874945   | 54355451      | C        | T        | 0.34     | T            | 0.993033   |
|            | rs25487    | 44055726      | T        | C        | 0.36     | T            | 1          |
| Recurrence | rs4645978  | 15852034      | C        | T        | 0.47     | C            | 0.999525   |
|            | rs197412   | 112308953     | T        | C        | 0.40     | C            | 1          |
|            | rs511918   | 182579602     | G        | T        | 0.41     | G            | 0.992327   |
|            | rs1323291  | 192548543     | T        | G        | 0.09     | G            | 0.993577   |
|            | rs3795617  | 192603690     | C        | T        | 0.47     | T            | 0.991678   |
|            | rs16829458 | 192768324     | G        | A        | 0.07     | A            | 1          |
|            | rs11685068 | 121541012     | C        | T        | 0.06     | T            | 0.9919     |
|            | rs17235409 | 219259732     | G        | A        | 0.02     | A            | 1          |
|            | rs1801282  | 12393125      | C        | G        | 0.12     | G            | 1          |
|            | rs1050450  | 49394834      | G        | A        | 0.30     | A            | 0.99929    |
|            | rs1052133  | 9798773       | C        | G        | 0.23     | G            | 1          |
|            | rs2228001  | 14187449      | G        | T        | 0.40     | G            | 0.995546   |
|            | rs1799864  | 46399208      | G        | A        | 0.078308 | A            | 1          |
|            | rs4073     | 74606024      | A        | T        | 0.46     | A            | 1          |
|            | rs798766   | 1734239       | T        | C        | 0.19     | T            | 1          |
|            | rs2910164  | 159912418     | C        | G        | 0.24     | C            | 0.999062   |
|            | rs12186785 | 31410608      | T        | C        | 0.09     | C            | 1          |
|            | rs4957014  | 288014        | T        | G        | 0.24     | T            | 0.997295   |
|            | rs2042329  | 64067752      | T        | G        | 0.41     | T            | 1          |
|            | rs2292016  | 38845860      | G        | T        | 0.02     | T            | 0.976753   |
|            | rs2278329  | 38921788      | G        | A        | 0.01     | A            | 1          |
|            | rs1799964  | 31542308      | T        | C        | 0.21     | C            | 1          |
|            | rs2275913  | 52051033      | G        | A        | 0.35     | A            | 0.968288   |
|            | rs1800795  | 22766645      | C        | G        | 0.41     | C            | 1          |
|            | rs2070744  | 150690079     | C        | T        | 0.38     | C            | 0.987305   |
|            | rs1799983  | 150696111     | T        | G        | 0.33     | T            | 0.983157   |
|            | rs6463089  | 42152856      | G        | A        | 0.10     | A            | 0.995015   |
|            | rs3801192  | 42161527      | C        | T        | 0.09     | T            | 1          |
|            | rs1233560  | 155593438     | G        | A        | 0.47     | G            | 0.845252   |
|            | rs7003908  | 48770702      | C        | A        | 0.33     | C            | 0.824001   |
|            | rs804267   | 11629241      | G        | A        | 0.32     | G            | 0.991159   |

|       |            |           |   |   |          |   |          |
|-------|------------|-----------|---|---|----------|---|----------|
|       | rs8191604  | 11636884  | T | G | 0.26     | G | 0.988574 |
|       | rs804256   | 11636862  | T | C | 0.35     | C | 0.99245  |
|       | rs804276   | 11625008  | G | A | 0.42     | A | 0.990034 |
|       | rs4639     | 11644751  | A | G | 0.44     | G | 0.992205 |
|       | rs13278062 | 23082971  | G | T | 0.50     | G | 1        |
|       | rs2228526  | 50678717  | T | C | 0.20     | C | 1        |
|       | rs11199005 | 121296029 | G | A | 0.09     | A | 1        |
|       | rs4925     | 106022789 | C | A | 0.30     | A | 1        |
|       | rs2505568  | 36811336  | T | A | 0.42     | T | 0.98455  |
|       | rs187238   | 112034988 | C | G | 0.27     | G | 0.994289 |
|       | rs1695     | 67352689  | A | G | 0.35     | G | 1        |
|       | rs2279744  | 69202580  | T | G | 0.35     | G | 0.99522  |
|       | rs5742714  | 102789852 | C | G | 0.09     | G | 0.994077 |
|       | rs2238151  | 112211833 | T | C | 0.35     | C | 1        |
|       | rs4758680  | 122655352 | T | G | 0.33     | T | 0.996788 |
|       | rs1544410  | 48239835  | C | T | 0.40     | T | 1        |
|       | rs2430561  | 68552522  | T | A | 0.114901 | A | 0.612221 |
|       | rs3138056  | 35868514  | C | T | 0.32     | T | 0.980789 |
|       | rs2169830  | 39872056  | T | C | 0.30     | C | 0.991923 |
|       | rs744154   | 14015081  | G | C | 0.28     | C | 0.996449 |
|       | rs243865   | 55511806  | C | T | 0.25     | T | 1        |
|       | rs16260    | 68771034  | C | A | 0.28     | A | 0.996119 |
|       | rs1042522  | 7579472   | G | C | 0.26     | G | 1        |
|       | rs9904341  | 76210367  | G | C | 0.31     | C | 0.992725 |
|       | rs2854509  | 44074597  | T | G | 0.22     | T | 0.990178 |
|       | rs3213255  | 44077507  | G | A | 0.42     | G | 0.991363 |
|       | rs915927   | 44057227  | T | C | 0.44     | C | 0.999689 |
|       | rs2854501  | 44060001  | A | G | 0.24     | A | 1        |
|       | rs1799782  | 44057574  | G | A | 0.06     | A | 1        |
|       | rs25487    | 44055726  | T | C | 0.36     | T | 1        |
|       | rs1799793  | 45867259  | C | T | 0.33     | T | 1        |
|       | rs5498     | 10395683  | A | G | 0.42     | G | 1        |
|       | rs3746162  | 1114119   | C | T | 0.22     | T | 0.998325 |
|       | rs7265992  | 33525407  | G | A | 0.18     | A | 0.976046 |
|       | rs6060124  | 33536897  | C | A | 0.31     | A | 0.992465 |
|       | rs7260770  | 33552653  | G | A | 0.33     | A | 0.996424 |
|       | rs4911455  | 33553062  | A | C | 0.33     | C | 0.997023 |
|       | rs2173962  | 33022020  | T | C | 0.04     | C | 0.98769  |
| Death | rs1801133  | 11856378  | G | A | 0.33     | A | 1        |
|       | rs1395960  | 163115522 | C | T | 0.12     | T | 0.99613  |
|       | rs2854461  | 226011644 | C | A | 0.35     | A | 0.994428 |
|       | rs2344673  | 163118052 | G | A | 0.14     | A | 1        |
|       | rs10917690 | 163142168 | A | G | 0.30     | G | 0.921387 |
|       | rs1890398  | 192771127 | C | T | 0.35     | T | 0.997693 |
|       | rs12035879 | 163142555 | G | A | 0.40     | A | 1        |
|       | rs10753605 | 163145390 | T | C | 0.30     | C | 0.974848 |
|       | rs1126579  | 219000734 | T | C | 0.47     | T | 0.999164 |
|       | rs1042640  | 234681544 | G | C | 0.20     | G | 1        |
|       | rs9282638  | 119263770 | T | C | 0.15     | C | 0.997356 |
|       | rs4129009  | 38774889  | T | C | 0.15     | C | 1        |
|       | rs762861   | 3442011   | G | C | 0.25     | C | 0.979271 |
|       | rs2662238  | 82499307  | G | A | 0.45     | A | 0.992607 |
|       | rs10515074 | 67566193  | A | G | 0.20     | G | 0.998354 |
|       | rs3756712  | 309096    | A | C | 0.38     | A | 0.996364 |
|       | rs2292016  | 38845860  | G | T | 0.02     | T | 0.976753 |

|             |            |           |   |   |           |   |          |
|-------------|------------|-----------|---|---|-----------|---|----------|
|             | rs1799983  | 150696111 | T | G | 0.33      | T | 0.983157 |
|             | rs1800795  | 22766645  | C | G | 0.41      | C | 1        |
|             | rs2227983  | 55229255  | G | A | 0.26      | A | 1        |
|             | rs2017000  | 55242609  | A | G | 0.28      | G | 0.996934 |
|             | rs2293347  | 55268916  | C | T | 0.11      | T | 0.991363 |
|             | rs35402311 | 53627403  | G | A | 0.04      | A | 1        |
|             | rs334358   | 101910613 | G | T | 0.20      | T | 0.994179 |
|             | rs868      | 101911656 | A | G | 0.20      | G | 0.994126 |
|             | rs1051013  | 116359339 | T | C | 0.25      | T | 1        |
|             | rs156697   | 106039185 | A | G | 0.35      | G | 1        |
|             | rs4925     | 106022789 | C | A | 0.30      | A | 1        |
|             | rs528778   | 8112143   | T | C | 0.21      | T | 0.993889 |
|             | rs4987059  | 636433    | G | A | 0.05      | A | 1        |
|             | rs1805363  | 94226952  | C | T | 0.09      | T | 1        |
|             | rs2279744  | 69202580  | T | G | 0.35      | G | 0.99522  |
|             | rs5443     | 6954875   | C | T | 0.32      | T | 1        |
|             | rs7180135  | 41024094  | G | A | 0.43      | G | 0.998991 |
|             | rs9302752  | 50719103  | T | C | 0.29      | T | 1        |
|             | rs17855750 | 28515228  | A | C | 0.05      | C | 1        |
|             | rs1800067  | 14029033  | G | A | 0.08      | A | 1        |
|             | rs1131341  | 69748869  | G | A | 0.04      | A | 1        |
|             | rs1042522  | 7579472   | G | C | 0.26      | G | 1        |
|             | rs9906827  | 78665405  | C | T | 0.45      | T | 0.997786 |
|             | rs1801018  | 60985879  | T | C | 0.42      | C | 1        |
|             | rs2279115  | 60986837  | G | T | 0.47      | G | 0.998126 |
|             | rs13181    | 45854919  | T | G | 0.36      | G | 1        |
|             | rs915927   | 44057227  | T | C | 0.44      | C | 0.999689 |
|             | rs762507   | 44058098  | T | C | 0.43      | T | 0.999682 |
|             | rs2854501  | 44060001  | A | G | 0.24      | A | 1        |
|             | rs2854509  | 44074597  | T | G | 0.22      | T | 0.990178 |
|             | rs3213255  | 44077507  | G | A | 0.42      | G | 0.991363 |
|             | rs3730050  | 40770982  | T | C | 0.29      | T | 0.997599 |
|             | rs11615    | 45923653  | A | G | 0.39      | G | 1        |
|             | rs171140   | 45865002  | C | A | 0.45      | C | 0.995683 |
|             | rs1994251  | 30287328  | T | G | 0.22      | G | 0.995433 |
|             | rs6024840  | 54956707  | A | G | 0.25      | G | 0.980223 |
| Progression | rs10917690 | 163142168 | A | G | 0.302568  | G | 0.921387 |
|             | rs10926466 | 241521721 | C | T | 0.263583  | C | 0.980052 |
|             | rs11585883 | 163104742 | T | C | 0.0587868 | C | 0.995822 |
|             | rs12038803 | 241522325 | A | G | 0.250167  | A | 0.976809 |
|             | rs1323291  | 192548543 | T | G | 0.0945522 | G | 0.993577 |
|             | rs1800896  | 206946897 | T | C | 0.496355  | C | 0.993185 |
|             | rs6678136  | 163037317 | G | A | 0.421169  | A | 0.9972   |
|             | rs2243248  | 132008644 | T | G | 0.0678691 | G | 1        |
|             | rs2910164  | 159912418 | C | G | 0.24027   | C | 0.999062 |
|             | rs4075958  | 176784512 | G | A | 0.258766  | A | 1        |
|             | rs1799983  | 150696111 | T | G | 0.331691  | T | 0.983157 |
|             | rs2070744  | 150690079 | C | T | 0.378021  | C | 0.987305 |
|             | rs3088440  | 21968159  | G | A | 0.0931572 | A | 0.992401 |
|             | rs12628    | 534242    | A | G | 0.340834  | G | 1        |
|             | rs3890995  | 109533529 | T | C | 0.184181  | C | 0.990296 |
|             | rs9302752  | 50719103  | T | C | 0.29363   | T | 1        |
|             | rs2297518  | 26096597  | G | A | 0.190104  | A | 1        |
|             | rs1801018  | 60985879  | T | C | 0.41806   | C | 1        |
|             | rs11615    | 45923653  | A | G | 0.386547  | G | 1        |

|  |           |          |   |   |          |   |          |
|--|-----------|----------|---|---|----------|---|----------|
|  | rs1800470 | 41858921 | G | A | 0.375027 | G | 0.997955 |
|  | rs1800471 | 41858876 | C | G | 0.077398 | G | 1        |
|  | rs2073778 | 20074575 | C | T | 0.127275 | T | 0.995009 |
|  | rs720012  | 20098582 | G | A | 0.127252 | A | 0.99538  |

MAF-Minor Allele Frequency; SNP-Single Nucleotide Polymorphism.