**Supplemental Table S1**. Top scoring 200 SNP-BN models in the ADRC dataset. (MA: minor allele, Chr: chromosome number)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rank | Known SNP | MA | Dataset SNP | MA | Chr. |
| 1 | rs429358 | G | rs4420638 | G | 19 |
| 2 | rs429358 | G | rs157582 | T | 19 |
| 3 | rs429358 | G | rs2075650 | G | 19 |
| 4 | rs429358 | G | rs1555110 | T | 6 |
| 5 | rs429358 | G | rs7412 | A | 19 |
| 6 | rs429358 | G | rs16914489 | A | 8 |
| 7 | rs429358 | G | rs12632905 | A | 3 |
| 8 | rs429358 | G | rs4761019 | C | 12 |
| 9 | rs429358 | G | rs9470543 | A | 6 |
| 10 | rs429358 | G | rs16979372 | G | 19 |
| 11 | rs429358 | G | rs6840147 | A | 4 |
| 12 | rs429358 | G | rs2001696 | A | 14 |
| 13 | rs429358 | G | rs3934907 | A | 15 |
| 14 | rs429358 | G | rs4981180 | T | 14 |
| 15 | rs429358 | G | rs11222692 | T | 11 |
| 16 | rs429358 | G | rs4752432 | T | 10 |
| 17 | rs429358 | G | rs8192593 | A | 12 |
| 18 | rs429358 | G | rs246994 | A | 5 |
| 19 | rs429358 | G | rs6507833 | C | 18 |
| 20 | rs429358 | G | rs16950202 | T | 15 |
| 21 | rs429358 | G | rs992558 | A | 5 |
| 22 | rs429358 | G | rs7140725 | C | 14 |
| 23 | rs429358 | G | rs182662 | T | 6 |
| 24 | rs429358 | G | rs4577954 | G | 8 |
| 25 | rs429358 | G | rs3852742 | A | 16 |
| 26 | rs429358 | G | rs9819935 | C | 3 |
| 27 | rs429358 | G | rs6843926 | C | 4 |
| 28 | rs429358 | G | rs4361760 | T | 8 |
| 29 | rs429358 | G | rs6549883 | G | 3 |
| 30 | rs429358 | G | rs6004582 | A | 22 |
| 31 | rs429358 | G | rs10513305 | G | 3 |
| 32 | rs429358 | G | rs1040425 | A | 1 |
| 33 | rs429358 | G | rs207363 | C | 4 |
| 34 | rs429358 | G | rs2973910 | A | 5 |
| 35 | rs429358 | G | rs13254708 | T | 8 |
| 36 | rs429358 | G | rs7769321 | G | 6 |
| 37 | rs429358 | G | rs8125585 | T | 20 |
| 38 | rs429358 | G | rs1835655 | A | 18 |
| 39 | rs429358 | G | rs1325550 | C | 6 |
| 40 | rs429358 | G | rs7668712 | A | 4 |
| 41 | rs429358 | G | rs9895280 | G | 17 |
| 42 | rs429358 | G | rs16916040 | T | 9 |
| 43 | rs429358 | G | rs11697010 | G | 20 |
| 44 | rs429358 | G | rs7309534 | A | 12 |
| 45 | rs429358 | G | rs1314016 | G | 9 |
| 46 | rs429358 | G | rs6777958 | G | 3 |
| 47 | rs429358 | G | rs16908426 | T | 8 |
| 48 | rs429358 | G | rs12580173 | T | 12 |
| 49 | rs429358 | G | rs17027130 | C | 2 |
| 50 | rs429358 | G | rs2817158 | A | 1 |
| 51 | rs429358 | G | rs6755466 | A | 2 |
| 52 | rs429358 | G | rs7766672 | G | 6 |
| 53 | rs429358 | G | rs16908400 | A | 8 |
| 54 | rs429358 | G | rs10810649 | A | 9 |
| 55 | rs429358 | G | rs7598244 | C | 2 |
| 56 | rs429358 | G | rs10862591 | G | 12 |
| 57 | rs429358 | G | rs17066794 | T | 8 |
| 58 | rs429358 | G | rs12462846 | G | 19 |
| 59 | rs429358 | G | rs12541339 | G | 8 |
| 60 | rs429358 | G | rs16908405 | G | 8 |
| 61 | rs429358 | G | rs741553 | T | 3 |
| 62 | rs429358 | G | rs16916098 | C | 9 |
| 63 | rs429358 | G | rs1778540 | T | 1 |
| 64 | rs429358 | G | rs12873187 | A | 13 |
| 65 | rs429358 | G | rs16875750 | A | 8 |
| 66 | rs429358 | G | rs2724856 | G | 2 |
| 67 | rs429358 | G | rs9811266 | G | 3 |
| 68 | rs429358 | G | rs204190 | G | 9 |
| 69 | rs429358 | G | rs7563563 | G | 2 |
| 70 | rs429358 | G | rs16897993 | G | 4 |
| 71 | rs429358 | G | rs16916079 | T | 9 |
| 72 | rs429358 | G | rs10884225 | A | 10 |
| 73 | rs429358 | G | rs9473701 | G | 6 |
| 74 | rs429358 | G | rs12073615 | G | 1 |
| 75 | rs429358 | G | rs3864087 | A | 3 |
| 76 | rs429358 | G | rs1809401 | T | 4 |
| 77 | rs429358 | G | rs3845668 | A | 2 |
| 78 | rs429358 | G | rs17145881 | A | 5 |
| 79 | rs429358 | G | rs10230004 | A | 7 |
| 80 | rs429358 | G | rs7793977 | G | 7 |
| 81 | rs429358 | G | rs10467182 | C | 12 |
| 82 | rs429358 | G | rs1778541 | C | 1 |
| 83 | rs429358 | G | rs11257738 | A | 10 |
| 84 | rs429358 | G | rs7075330 | C | 10 |
| 85 | rs429358 | G | rs1869866 | A | 3 |
| 86 | rs429358 | G | rs8044050 | C | 16 |
| 87 | rs429358 | G | rs1551680 | T | 10 |
| 88 | rs429358 | G | rs2786498 | A | 1 |
| 89 | rs429358 | G | rs17022467 | T | 2 |
| 90 | rs429358 | G | rs12889998 | T | 14 |
| 91 | rs429358 | G | rs2154153 | C | 9 |
| 92 | rs429358 | G | rs11951324 | G | 5 |
| 93 | rs429358 | G | rs12249088 | A | 10 |
| 94 | rs429358 | G | rs2223 | T | 14 |
| 95 | rs429358 | G | rs1182534 | A | 20 |
| 96 | rs429358 | G | rs17025271 | T | 2 |
| 97 | rs429358 | G | rs12435937 | C | 14 |
| 98 | rs429358 | G | rs193096 | T | 19 |
| 99 | rs429358 | G | rs13135278 | A | 4 |
| 100 | rs429358 | G | rs10015280 | C | 4 |
| 101 | rs429358 | G | rs7913357 | A | 10 |
| 102 | rs429358 | G | rs9565267 | T | 13 |
| 103 | rs429358 | G | rs6919481 | A | 6 |
| 104 | rs429358 | G | rs7749306 | T | 6 |
| 105 | rs429358 | G | rs16935300 | G | 10 |
| 106 | rs429358 | G | rs2236902 | G | 1 |
| 107 | rs429358 | G | rs10836114 | A | 11 |
| 108 | rs429358 | G | rs17024694 | G | 12 |
| 109 | rs429358 | G | rs11976749 | T | 7 |
| 110 | rs429358 | G | rs12604943 | C | 18 |
| 111 | rs429358 | G | rs16952149 | A | 18 |
| 112 | rs429358 | G | rs16955202 | A | 16 |
| 113 | rs429358 | G | rs1454540 | C | 2 |
| 114 | rs429358 | G | rs11180676 | C | 12 |
| 115 | rs429358 | G | rs2039611 | A | 9 |
| 116 | rs429358 | G | rs16884109 | G | 8 |
| 117 | rs429358 | G | rs10046684 | G | 8 |
| 118 | rs429358 | G | rs9469637 | A | 6 |
| 119 | rs429358 | G | rs10932849 | G | 2 |
| 120 | rs429358 | G | rs7314773 | A | 12 |
| 121 | rs429358 | G | rs7013633 | C | 8 |
| 122 | rs429358 | G | rs4792630 | T | 17 |
| 123 | rs429358 | G | rs11111323 | A | 12 |
| 124 | rs429358 | G | rs11901178 | A | 2 |
| 125 | rs429358 | G | rs10142229 | T | 14 |
| 126 | rs429358 | G | rs6927181 | C | 6 |
| 127 | rs429358 | G | rs12586381 | C | 14 |
| 128 | rs429358 | G | rs10827343 | T | 10 |
| 129 | rs429358 | G | rs17751194 | A | 11 |
| 130 | rs429358 | G | rs12366983 | A | 12 |
| 131 | rs429358 | G | rs7779121 | C | 7 |
| 132 | rs429358 | G | rs12110995 | T | 6 |
| 133 | rs429358 | G | rs7642557 | C | 3 |
| 134 | rs429358 | G | rs17736782 | A | 6 |
| 135 | rs429358 | G | rs3123247 | C | 10 |
| 136 | rs429358 | G | rs12870493 | C | 13 |
| 137 | rs429358 | G | rs7572966 | T | 2 |
| 138 | rs429358 | G | rs11620945 | A | 14 |
| 139 | rs429358 | G | rs3736456 | C | 4 |
| 140 | rs429358 | G | rs17095485 | T | 14 |
| 141 | rs429358 | G | rs2582860 | T | 10 |
| 142 | rs429358 | G | rs17071079 | C | 3 |
| 143 | rs429358 | G | rs405509 | G | 19 |
| 144 | rs429358 | G | rs17224968 | C | 8 |
| 145 | rs429358 | G | rs10266589 | C | 7 |
| 146 | rs429358 | G | rs755836 | T | 12 |
| 147 | rs429358 | G | rs6732115 | C | 2 |
| 148 | rs429358 | G | rs1003580 | A | 22 |
| 149 | rs429358 | G | rs17016018 | G | 4 |
| 150 | rs429358 | G | rs10846183 | G | 12 |
| 151 | rs429358 | G | rs280632 | A | 2 |
| 152 | rs429358 | G | rs17027638 | G | 3 |
| 153 | rs429358 | G | rs2272866 | T | 1 |
| 154 | rs429358 | G | rs7008028 | G | 8 |
| 155 | rs429358 | G | rs12063989 | C | 1 |
| 156 | rs429358 | G | rs7621621 | A | 3 |
| 157 | rs429358 | G | rs3788374 | C | 22 |
| 158 | rs429358 | G | rs11608431 | A | 12 |
| 159 | rs429358 | G | rs16872402 | G | 7 |
| 160 | rs429358 | G | rs741232 | T | 19 |
| 161 | rs429358 | G | rs2929103 | T | 8 |
| 162 | rs429358 | G | rs751247 | C | 14 |
| 163 | rs429358 | G | rs12006360 | T | 9 |
| 164 | rs429358 | G | rs578991 | G | 19 |
| 165 | rs429358 | G | rs10125000 | T | 9 |
| 166 | rs429358 | G | rs12203621 | A | 6 |
| 167 | rs429358 | G | rs3018066 | G | 4 |
| 168 | rs429358 | G | rs9497952 | A | 6 |
| 169 | rs429358 | G | rs7950864 | T | 11 |
| 170 | rs429358 | G | rs881795 | T | 6 |
| 171 | rs429358 | G | rs7759004 | C | 6 |
| 172 | rs429358 | G | rs504350 | A | 19 |
| 173 | rs429358 | G | rs11257374 | C | 10 |
| 174 | rs429358 | G | rs2151182 | C | 9 |
| 175 | rs429358 | G | rs1159993 | G | 12 |
| 176 | rs429358 | G | rs283129 | C | 5 |
| 177 | rs429358 | G | rs2038865 | T | 6 |
| 178 | rs429358 | G | rs6071006 | A | 20 |
| 179 | rs429358 | G | rs11876903 | G | 18 |
| 180 | rs429358 | G | rs10497718 | A | 2 |
| 181 | rs429358 | G | rs4402798 | G | 2 |
| 182 | rs429358 | G | rs2246646 | A | 18 |
| 183 | rs429358 | G | rs10072098 | C | 5 |
| 184 | rs429358 | G | rs16890450 | C | 6 |
| 185 | rs429358 | G | rs10157386 | C | 1 |
| 186 | rs429358 | G | rs1456922 | A | 3 |
| 187 | rs429358 | G | rs10167154 | C | 2 |
| 188 | rs429358 | G | rs7702926 | G | 5 |
| 189 | rs429358 | G | rs16853027 | A | 2 |
| 190 | rs429358 | G | rs497321 | A | 15 |
| 191 | rs429358 | G | rs7788611 | C | 7 |
| 192 | rs429358 | G | rs17015078 | G | 1 |
| 193 | rs429358 | G | rs4521036 | A | 2 |
| 194 | rs429358 | G | rs4800618 | C | 18 |
| 195 | rs429358 | G | rs17067325 | A | 13 |
| 196 | rs429358 | G | rs6534145 | A | 4 |
| 197 | rs429358 | G | rs2224215 | C | 1 |
| 198 | rs429358 | G | rs12550518 | C | 8 |
| 199 | rs429358 | G | rs11608933 | C | 12 |
| 200 | rs429358 | G | rs2405046 | T | 3 |