

Table S2. Number of SNPs at each locus for analysis in each of the three ancestry groups

| Locus | Chr | Pos_start | Pos_end | Length (kb) | Trait | African American | East Asian | European |
|----------------|-----|-----------|-----------|-------------|-------|------------------|--------------|--------------|
| <i>ANGPTL3</i> | 1 | 62605319 | 63131404 | 526.1 | TG | 825 | 480 | 474 |
| <i>APOB</i> | 2 | 20968276 | 21115932 | 147.7 | TG | 485 | 249 | 271 |
| <i>GCKR</i> | 2 | 27240303 | 28524485 | 1284.2 | TG | 2220 | 1060 | 1300 |
| <i>KLHL8</i> | 4 | 88199054 | 88388945 | 189.9 | TG | 415 | 248 | 286 |
| <i>MAP3K1</i> | 5 | 55876150 | 55917936 | 41.8 | TG | 116 | 80 | 80 |
| <i>TYW1B</i> | 7 | 71646192 | 71931044 | 284.9 | TG | 279 | 109 | 118 |
| <i>MLXIPL</i> | 7 | 72339015 | 72771177 | 432.2 | TG | 585 | 266 | 325 |
| <i>PINX1</i> | 8 | 10619933 | 10769460 | 149.5 | TG | 529 | 393 | 386 |
| <i>NAT2</i> | 8 | 18278054 | 18335870 | 57.8 | TG | 294 | 195 | 212 |
| <i>LPL</i> | 8 | 19772866 | 20011766 | 238.9 | TG | 1067 | 633 | 662 |
| <i>TRIB1</i> | 8 | 126533689 | 126579084 | 45.4 | TG | 191 | 116 | 126 |
| <i>APOA5</i> | 11 | 116032491 | 116232000 | 199.5 | TG | 543 | 370 | 398 |
| <i>LRP1</i> | 12 | 55910892 | 56137449 | 226.6 | TG | 103 | 50 | 54 |
| <i>KLF12</i> | 13 | 73456517 | 73492535 | 36.0 | TG | 99 | 68 | 72 |
| <i>CAPN3</i> | 15 | 40402264 | 40539209 | 136.9 | TG | 213 | 155 | 173 |
| <i>LIPC</i> | 15 | 56450000 | 56550000 | 100.0 | TG | 178 | 126 | 133 |
| <i>CETP</i> | 16 | 55540320 | 55565013 | 24.7 | TG | 100 | 65 | 72 |
| <i>APOC1</i> | 19 | 50059760 | 50164446 | 104.7 | TG | 109 | 69 | 79 |
| <i>GALNT2</i> | 1 | 228268651 | 228485397 | 216.7 | HDL-C | 694 | 502 | 536 |
| <i>APOB</i> | 2 | 20968276 | 21115932 | 147.7 | HDL-C | 485 | 249 | 271 |
| <i>COBLL1</i> | 2 | 165207794 | 165440664 | 232.9 | HDL-C | 456 | 297 | 314 |
| <i>PPP1R3B</i> | 8 | 9205275 | 9422842 | 217.6 | HDL-C | 888 | 630 | 666 |
| <i>LPL</i> | 8 | 19772866 | 20011766 | 238.9 | HDL-C | 1067 | 633 | 662 |
| <i>TTC39B</i> | 9 | 15272851 | 15326653 | 53.8 | HDL-C | 172 | 131 | 137 |
| <i>ABCA1</i> | 9 | 106677603 | 106711480 | 33.9 | HDL-C | 149 | 75 | 100 |
| <i>ARFGAP2</i> | 11 | 46654261 | 47310074 | 655.8 | HDL-C | 894 | 497 | 554 |
| <i>FADS3</i> | 11 | 61276118 | 61489925 | 213.8 | HDL-C | 551 | 339 | 336 |
| <i>APOA5</i> | 11 | 116032491 | 116175948 | 143.5 | HDL-C | 543 | 370 | 390 |
| <i>MMAB</i> | 12 | 108256738 | 108565110 | 308.4 | HDL-C | 788 | 600 | 621 |
| <i>SCARB1</i> | 12 | 123820589 | 123834385 | 13.8 | HDL-C | 43 | 30 | 32 |
| <i>LIPC</i> | 15 | 56450000 | 56550000 | 100.0 | HDL-C | 178 | 126 | 133 |
| <i>LACTB</i> | 15 | 61106592 | 61346662 | 240.1 | HDL-C | 454 | 296 | 319 |
| <i>CETP</i> | 16 | 55540320 | 55565013 | 24.7 | HDL-C | 100 | 65 | 72 |
| <i>LCAT</i> | 16 | 66109606 | 66883748 | 774.1 | HDL-C | 814 | 452 | 514 |
| <i>STARD3</i> | 17 | 34640966 | 35328044 | 687.1 | HDL-C | 842 | 473 | 500 |
| <i>ABCA8</i> | 17 | 64325421 | 64414888 | 89.5 | HDL-C | 181 | 138 | 132 |
| <i>LIPG</i> | 18 | 45378906 | 45436862 | 58.0 | HDL-C | 303 | 236 | 226 |
| <i>LILRA3</i> | 19 | 59464550 | 59502182 | 37.6 | HDL-C | 142 | 92 | 94 |
| <i>HNF4A</i> | 20 | 42472196 | 42491494 | 19.3 | HDL-C | 49 | 35 | 38 |
| <i>PLTP</i> | 20 | 43965592 | 44095820 | 130.2 | HDL-C | 310 | 176 | 197 |
| <i>LDLRAP1</i> | 1 | 25398494 | 25780828 | 382.3 | LDL-C | 535 | 178 | 255 |
| <i>PCSK9</i> | 1 | 55271537 | 55310000 | 38.5 | LDL-C | 96 | 57 | 59 |
| <i>SORT1</i> | 1 | 109457160 | 109845216 | 388.1 | LDL-C | 760 | 453 | 448 |
| <i>APOB</i> | 2 | 21080065 | 21305332 | 225.3 | LDL-C | 858 | 503 | 527 |
| <i>ABCG8</i> | 2 | 43910534 | 43954353 | 43.8 | LDL-C | 172 | 72 | 106 |
| <i>HMGCR</i> | 5 | 74603868 | 74991808 | 387.9 | LDL-C | 598 | 383 | 405 |
| <i>TIMD4</i> | 5 | 156263672 | 156437811 | 174.1 | LDL-C | 474 | 247 | 265 |
| <i>MYLIP</i> | 6 | 16212233 | 16242816 | 30.6 | LDL-C | 68 | 50 | 52 |
| <i>SLC22A1</i> | 6 | 160388268 | 160499517 | 111.2 | LDL-C | 284 | 186 | 189 |
| <i>TRIB1</i> | 8 | 126510832 | 126613110 | 102.3 | LDL-C | 368 | 213 | 238 |
| <i>ABO</i> | 9 | 135032145 | 135472297 | 440.2 | LDL-C | 1181 | 931 | 823 |
| <i>ST3GAL4</i> | 11 | 125724639 | 125784557 | 59.9 | LDL-C | 167 | 107 | 92 |
| <i>DHODH</i> | 16 | 70553792 | 70705184 | 151.4 | LDL-C | 402 | 277 | 282 |
| <i>LDLR</i> | 19 | 11044837 | 11072208 | 27.4 | LDL-C | 60 | 35 | 32 |
| <i>CILP2</i> | 19 | 19162232 | 19653250 | 491.0 | LDL-C | 946 | 591 | 606 |
| <i>APOE</i> | 19 | 50088739 | 50136106 | 47.4 | LDL-C | 72 | 41 | 47 |
| <i>MAFB</i> | 20 | 38516556 | 38561992 | 45.4 | LDL-C | 92 | 49 | 56 |
| <i>TOP1</i> | 20 | 39047398 | 39443459 | 396.1 | LDL-C | 556 | 311 | 346 |
| Total: | | | | | | 26143 | 15858 | 16883 |
| Mean: | | | | | | 451 | 273 | 291 |