**Supplementary Table 1-** Logistic regression between all FTO variants and excess weight. Salvador, Bahia, Brazil. 2004-2005.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SNV** | **Position (BP)** | **Genotype** | **Overweight**  **nº** | | **Not Overweight nº** | **OR** | **95%CI** | ***p*\*** | ***p*-perm\*\*** |
| rs73609956 | 53738114 | CC | 16 | 119 | |  |  |  |  |
|  |  | CT/TT | 127 | 983 | | 0.87 | 0.47 - 1.59 | 0.647 | 0.649 |
| rs74018187 | 53738581 | GG | 8 | 43 | |  |  |  |  |
|  |  | CG/CC | 135 | 1060 | | 1.56 | 0.71 - 3.44 | 0.27 | 0.276 |
| rs7187609 | 53739198 | CC | 41 | 269 | |  |  |  |  |
|  |  | CT/TT | 102 | 834 | | 1.32 | 0.87 - 1.99 | 0.187 | 0.187 |
| rs1421091 | 53739773 | TT | 92 | 616 | |  |  |  |  |
|  |  | GT/GG | 51 | 485 | | 1.45 | 0.98 - 2.15 | 0.061 | 0.061 |
| rs75435283 | 53746875 | AA | 23 | 135 | |  |  |  |  |
|  |  | AG/GG | 120 | 963 | | 1.38 | 0.82 - 2.31 | 0.225 | 0.221 |
| rs12445162 | 53750137 | AA | 5 | 76 | |  |  |  |  |
|  |  | AG/GG | 138 | 1027 | | 0.46 | 0.16 - 1.28 | 0.136 | 0.133 |
| rs16952465 | 53751383 | AA | 34 | 269 | |  |  |  |  |
|  |  | AG/GG | 109 | 830 | | 0.86 | 0.56 - 1.34 | 0.512 | 0.511 |
| rs7205986 | 53755146 | GG | 81 | 657 | |  |  |  |  |
|  |  | AG/GG | 62 | 446 | | 0.91 | 0.63 - 1.32 | 0.614 | 0.616 |
| rs7206010 | 53755177 | AA | 99 | 726 | |  |  |  |  |
|  |  | AG/GG | 44 | 375 | | 1.05 | 0.71 - 1.56 | 0.798 | 0.798 |
| rs8063472 | 53756133 | CC | 79 | 650 | |  |  |  |  |
|  |  | CT/TT | 64 | 453 | | 0.88 | 0.61 - 1.28 | 0.501 | 0.501 |
| rs74405327 | 53756337 | CC | 41 | 337 | |  |  |  |  |
|  |  | CT/TT | 101 | 765 | | 0.99 | 0.66 - 1.48 | 0.967 | 0.967 |
| rs1421084 | 53757740 | GG | 41 | 335 | |  |  |  |  |
|  |  | AG/GG | 101 | 760 | | 0.98 | 0.66 - 1.47 | 0.93 | 0.93 |
| rs74991175 | 53757790 | TT | 18 | 115 | |  |  |  |  |
|  |  | CT/CC | 125 | 987 | | 1.21 | 0.7 - 2.1 | 0.499 | 0.512 |
| rs78020297 | 53758720 | AA | 14 | 85 | |  |  |  |  |
|  |  | AG/GG | 129 | 1018 | | 1.37 | 0.73 - 2.54 | 0.326 | 0.337 |
| rs7202836 | 53760532 | AA | 26 | 232 | |  |  |  |  |
|  |  | AG/GG | 117 | 871 | | 0.94 | 0.6 - 1.49 | 0.804 | 0.804 |
| rs76519473 | 53762561 | AA | 6 | 44 | |  |  |  |  |
|  |  | AG/GG | 137 | 1059 | | 1.14 | 0.47 - 2.74 | 0.775 | 0.782 |
| rs75566209 | 53763890 | CC | 2 | 27 | |  |  |  |  |
|  |  | AC/AA | 141 | 1075 | | 0.65 | 0.15 - 2.8 | 0.564 | 0.588 |
| rs9925311 | 53767648 | AA | 18 | 129 | |  |  |  |  |
|  |  | AG/GG | 125 | 974 | | 1.05 | 0.61 - 1.82 | 0.854 | 0.855 |
| rs76293489 | 53768592 | GG | 24 | 154 | |  |  |  |  |
|  |  | AG/GG | 119 | 946 | | 1.28 | 0.78 - 2.1 | 0.336 | 0.339 |
| rs78016095 | 53768955 | TT | 5 | 44 | |  |  |  |  |
|  |  | CT/CC | 138 | 1059 | | 0.91 | 0.35 - 2.37 | 0.851 | 0.848 |
| rs76036961 | 53769010 | GG | 15 | 87 | |  |  |  |  |
|  |  | AG/GG | 121 | 990 | | 1.51 | 0.83 - 2.77 | 0.18 | 0.173 |
| rs7203521 | 53769293 | GG | 94 | 691 | |  |  |  |  |
|  |  | AG/GG | 49 | 412 | | 0.99 | 0.68 - 1.46 | 0.977 | 0.969 |
| rs6499640 | 53769677 | GG | 94 | 688 | |  |  |  |  |
|  |  | AG/GG | 49 | 410 | | 0.99 | 0.68 - 1.46 | 0.979 | 0.979 |
| rs8048396 | 53770749 | AA | 79 | 644 | |  |  |  |  |
|  |  | AC/CC | 64 | 454 | | 0.87 | 0.6 - 1.26 | 0.458 | 0.458 |
| rs72803661 | 53770753 | AA | 36 | 245 | |  |  |  |  |
|  |  | AG/GG | 107 | 858 | | 1.18 | 0.77 - 1.81 | 0.435 | 0.435 |
| rs77317168 | 53771738 | TT | 26 | 244 | |  |  |  |  |
|  |  | CT/CC | 117 | 859 | | 0.87 | 0.55 - 1.38 | 0.562 | 0.566 |
| rs4396532 | 53773047 | AA | 39 | 322 | |  |  |  |  |
|  |  | AG/GG | 101 | 777 | | 1 | 0.66 - 1.5 | 0.982 | 0.982 |
| rs79977114 | 53774354 | GG | 17 | 133 | |  |  |  |  |
|  |  | AG/GG | 126 | 970 | | 1.05 | 0.6 - 1.83 | 0.871 | 0.872 |
| rs12102495 | 53774590 | TT | 5 | 70 | |  |  |  |  |
|  |  | GT/GG | 138 | 1033 | | 0.54 | 0.21 - 1.37 | 0.195 | 0.186 |
| rs74018197 | 53774960 | AA | 10 | 61 | |  |  |  |  |
|  |  | AG/GG | 133 | 1041 | | 1.25 | 0.6 - 2.59 | 0.555 | 0.559 |
| rs77715413 | 53775218 | AA | 34 | 214 | |  |  |  |  |
|  |  | AG/GG | 109 | 889 | | 1.24 | 0.8 - 1.93 | 0.329 | 0.326 |
| rs62048372 | 53775940 | GG | 75 | 522 | |  |  |  |  |
|  |  | AG/GG | 68 | 577 | | 1.19 | 0.82 - 1.72 | 0.365 | 0.368 |
| rs16952495 | 53777020 | CC | 7 | 38 | |  |  |  |  |
|  |  | AC/AA | 136 | 1064 | | 1.58 | 0.68 - 3.67 | 0.283 | 0.284 |
| kgp8471394 | 53778746 | TT | 5 | 46 | |  |  |  |  |
|  |  | CT/CC | 136 | 1050 | | 0.88 | 0.34 - 2.28 | 0.791 | 0.773 |
| rs16952502 | 53778831 | GG | 6 | 28 | |  |  |  |  |
|  |  | AG/GG | 136 | 1073 | | 1.84 | 0.73 - 4.61 | 0.193 | 0.195 |
| rs79149291 | 53779377 | AA | 7 | 28 | |  |  |  |  |
|  |  | AG/GG | 136 | 1075 | | 2.2 | 0.93 - 5.23 | 0.074 | **0.046** |
| rs7186637 | 53780102 | TT | 77 | 578 | |  |  |  |  |
|  |  | CT/CC | 66 | 525 | | 1.01 | 0.7 - 1.47 | 0.951 | 0.951 |
| rs60286074 | 53789934 | AA | 26 | 210 | |  |  |  |  |
|  |  | AC/CC | 117 | 892 | | 1.05 | 0.66 - 1.66 | 0.844 | 0.843 |
| rs1861868 | 53790402 | AA | 88 | 649 | |  |  |  |  |
|  |  | AG/GG | 55 | 454 | | 1.19 | 0.82 - 1.75 | 0.363 | 0.368 |
| rs1075440 | 53790906 | GG | 51 | 394 | |  |  |  |  |
|  |  | AG/GG | 91 | 699 | | 0.92 | 0.62 - 1.37 | 0.687 | 0.691 |
| rs1077128 | 53791653 | AA | 88 | 709 | |  |  |  |  |
|  |  | AC/CC | 55 | 393 | | 0.86 | 0.59 - 1.27 | 0.462 | 0.46 |
| rs7184874 | 53792439 | TT | 90 | 668 | |  |  |  |  |
|  |  | CT/CC | 53 | 435 | | 1.19 | 0.81 - 1.74 | 0.383 | 0.386 |
| rs7186521 | 53792922 | GG | 93 | 759 | |  |  |  |  |
|  |  | AG/GG | 49 | 344 | | 0.94 | 0.63 - 1.39 | 0.755 | 0.755 |
| rs7191566 | 53793204 | GG | 86 | 670 | |  |  |  |  |
|  |  | AG/GG | 57 | 433 | | 0.97 | 0.67 - 1.43 | 0.895 | 0.898 |
| rs17525605 | 53794469 | GG | 49 | 365 | |  |  |  |  |
|  |  | CG/CC | 94 | 730 | | 0.96 | 0.65 - 1.43 | 0.848 | 0.851 |
| rs115862051 | 53794528 | TT | 28 | 204 | |  |  |  |  |
|  |  | GT/GG | 115 | 894 | | 0.99 | 0.62 - 1.59 | 0.971 | 0.973 |
| rs13334933 | 53795636 | GG | 96 | 748 | |  |  |  |  |
|  |  | AG/GG | 47 | 353 | | 0.92 | 0.62 - 1.38 | 0.699 | 0.697 |
| rs16952517 | 53797057 | AA | 43 | 307 | |  |  |  |  |
|  |  | AG/GG | 100 | 796 | | 1.22 | 0.82 - 1.82 | 0.333 | 0.326 |
| rs62048379 | 53797183 | AA | 33 | 175 | |  |  |  |  |
|  |  | AC/CC | 109 | 926 | | 1.66 | 1.07 - 2.61 | **0.024** | **0.024** |
| rs60386982 | 53797452 | AA | 46 | 290 | |  |  |  |  |
|  |  | AG/GG | 97 | 812 | | 1.34 | 0.9 - 1.99 | 0.145 | 0.178 |
| rs6499642 | 53797506 | TT | 45 | 344 | |  |  |  |  |
|  |  | CT/CC | 98 | 757 | | 0.85 | 0.56 - 1.28 | 0.431 | 0.492 |
| rs4784323 | 53797565 | AA | 44 | 392 | |  |  |  |  |
|  |  | AG/GG | 99 | 709 | | 0.83 | 0.56 - 1.24 | 0.366 | 0.437 |
| rs7206790 | 53797908 | CC | 104 | 795 | |  |  |  |  |
|  |  | CG/GG | 39 | 308 | | 1.05 | 0.7 - 1.59 | 0.803 | 0.885 |
| rs9928094 | 53799905 | GG | 92 | 722 | |  |  |  |  |
|  |  | AG/AA | 51 | 381 | | 0.99 | 0.67 - 1.45 | 0.951 | 0.97 |
| rs9930333 | 53799977 | GG | 95 | 739 | |  |  |  |  |
|  |  | GT/TT | 48 | 364 | | 1.02 | 0.69 - 1.51 | 0.928 | 0.953 |
| rs9939973 | 53800568 | AA | 91 | 721 | |  |  |  |  |
|  |  | AG/GG | 51 | 381 | | 0.97 | 0.66 - 1.44 | 0.896 | 0.934 |
| rs1421085 | 53800954 | CC | 54 | 419 | |  |  |  |  |
|  |  | CT/TT | 89 | 684 | | 1.03 | 0.7 - 1.52 | 0.864 | 0.895 |
| rs16952520 | 53803038 | GG | 48 | 335 | |  |  |  |  |
|  |  | AG/AA | 95 | 768 | | 1.04 | 0.69 - 1.55 | 0.862 | 0.882 |
| rs10852521 | 53804965 | TT | 86 | 657 | |  |  |  |  |
|  |  | CT/CC | 57 | 444 | | 0.99 | 0.68 - 1.44 | 0.943 | 0.96 |
| rs75677255 | 53807353 | TT | 7 | 50 | |  |  |  |  |
|  |  | GT/GG | 136 | 1053 | | 1.1 | 0.46 - 2.65 | 0.827 | 0.832 |
| rs16952522 | 53807498 | GG | 7 | 47 | |  |  |  |  |
|  |  | CG/CC | 136 | 1053 | | 0.94 | 0.36 - 2.43 | 0.899 | 0.912 |
| rs9924817 | 53807924 | AA | 4 | 33 | |  |  |  |  |
|  |  | AG/GG | 139 | 1064 | | 0.99 | 0.34 - 2.87 | 0.979 | 0.988 |
| rs16952523 | 53808694 | AA | 8 | 80 | |  |  |  |  |
|  |  | AG/GG | 135 | 1023 | | 0.84 | 0.39 - 1.79 | 0.647 | 0.646 |
| rs1121980 | 53809247 | TT | 97 | 775 | |  |  |  |  |
|  |  | CT/CC | 46 | 328 | | 0.93 | 0.62 - 1.38 | 0.714 | 0.825 |
| rs7193144 | 53810686 | CC | 87 | 729 | |  |  |  |  |
|  |  | CT/TT | 55 | 374 | | 0.87 | 0.59 - 1.27 | 0.466 | 0.614 |
| rs8057044 | 53812614 | GG | 94 | 663 | |  |  |  |  |
|  |  | AG/AA | 49 | 440 | | 1.21 | 0.83 - 1.78 | 0.325 | 0.487 |
| rs74995968 | 53813197 | TT | 3 | 31 | |  |  |  |  |
|  |  | CT/CC | 140 | 1071 | | 0.73 | 0.22 - 2.45 | 0.61 | 0.61 |
| rs17817449 | 53813367 | GG | 84 | 709 | |  |  |  |  |
|  |  | GT/TT | 59 | 394 | | 0.84 | 0.58 - 1.23 | 0.378 | 0.529 |
| rs8063946 | 53813498 | TT | 65 | 434 | |  |  |  |  |
|  |  | CT/CC | 78 | 669 | | 1.2 | 0.83 - 1.75 | 0.333 | 0.44 |
| rs28500763 | 53814318 | TT | 14 | 77 | |  |  |  |  |
|  |  | CT/CC | 129 | 1026 | | 1.56 | 0.83 - 2.92 | 0.165 | 0.182 |
| rs8050136 | 53816275 | AA | 89 | 740 | |  |  |  |  |
|  |  | AC/CC | 54 | 363 | | 0.88 | 0.6 - 1.29 | 0.499 | 0.643 |
| rs3751812 | 53818460 | TT | 52 | 406 | |  |  |  |  |
|  |  | GT/GG | 91 | 697 | | 1.05 | 0.71 - 1.54 | 0.825 | 0.861 |
| rs9936385 | 53819169 | CC | 92 | 773 | |  |  |  |  |
|  |  | CT/TT | 51 | 328 | | 0.83 | 0.56 - 1.23 | 0.358 | 0.572 |
| rs9939609 | 53820527 | CC | 92 | 767 | |  |  |  |  |
|  |  | AC/AA | 51 | 329 | | 0.84 | 0.57 - 1.25 | 0.386 | 0.589 |
| rs79489731 | 53821841 | GG | 12 | 118 | |  |  |  |  |
|  |  | AG/AA | 131 | 985 | | 0.73 | 0.38 - 1.41 | 0.354 | 0.36 |
| rs7185735 | 53822651 | GG | 92 | 774 | |  |  |  |  |
|  |  | AG/AA | 51 | 329 | | 0.83 | 0.56 - 1.23 | 0.363 | 0.57 |
| rs60644334 | 53825157 | TT | 5 | 23 | |  |  |  |  |
|  |  | GT/GG | 138 | 1080 | | 1.98 | 0.72 - 5.45 | 0.184 | 0.124 |
| rs75092426 | 53825422 | TT | 25 | 252 | |  |  |  |  |
|  |  | GT/GG | 118 | 851 | | 0.77 | 0.48 - 1.23 | 0.269 | 0.298 |
| rs7199182 | 53826120 | GG | 37 | 383 | |  |  |  |  |
|  |  | AG/AA | 105 | 707 | | 0.67 | 0.44 - 1.01 | 0.057 | 0.079 |
| rs75222427 | 53826629 | TT | 12 | 86 | |  |  |  |  |
|  |  | CT/CC | 131 | 1017 | | 1.13 | 0.58 - 2.19 | 0.717 | 0.732 |
| rs76442450 | 53827487 | TT | 39 | 282 | |  |  |  |  |
|  |  | CT/CC | 104 | 820 | | 0.98 | 0.64 - 1.49 | 0.916 | 0.925 |
| rs17817964 | 53828066 | TT | 53 | 411 | |  |  |  |  |
|  |  | CT/CC | 90 | 692 | | 1.05 | 0.72 - 1.54 | 0.806 | 0.841 |
| rs7190492 | 53828752 | AA | 67 | 517 | |  |  |  |  |
|  |  | AG/GG | 76 | 584 | | 0.97 | 0.67 - 1.4 | 0.855 | 0.886 |
| rs79226694 | 53828899 | TT | 6 | 40 | |  |  |  |  |
|  |  | CT/CC | 137 | 1056 | | 1.1 | 0.42 - 2.89 | 0.842 | 0.843 |
| rs13337696 | 53829192 | TT | 14 | 79 | |  |  |  |  |
|  |  | CT/CC | 129 | 1021 | | 1.51 | 0.81 - 2.82 | 0.199 | 0.208 |
| rs9922708 | 53831146 | TT | 73 | 524 | |  |  |  |  |
|  |  | CT/CC | 68 | 569 | | 1.24 | 0.85 - 1.8 | 0.257 | 0.413 |
| rs9922619 | 53831771 | TT | 74 | 506 | |  |  |  |  |
|  |  | GT/GG | 69 | 596 | | 1.35 | 0.93 - 1.96 | 0.113 | 0.242 |
| rs2111650 | 53832816 | CC | 50 | 463 | |  |  |  |  |
|  |  | CT/TT | 93 | 640 | | 0.79 | 0.54 - 1.16 | 0.223 | 0.297 |
| rs9922637 | 53837024 | TT | 4 | 33 | |  |  |  |  |
|  |  | CT/CC | 139 | 1070 | | 0.99 | 0.34 - 2.89 | 0.991 | 0.994 |
| rs73607080 | 53837189 | TT | 20 | 143 | |  |  |  |  |
|  |  | CT/CC | 123 | 959 | | 0.96 | 0.56 - 1.67 | 0.894 | 0.9 |
| rs8044769 | 53839135 | TT | 85 | 617 | |  |  |  |  |
|  |  | CT/CC | 58 | 486 | | 1.07 | 0.74 - 1.55 | 0.723 | 0.789 |
| rs74018595 | 53839338 | GG | 5 | 23 | |  |  |  |  |
|  |  | GT/TT | 138 | 1080 | | 1.98 | 0.72 - 5.45 | 0.184 | 0.123 |
| rs12149182 | 53841177 | AA | 47 | 402 | |  |  |  |  |
|  |  | AG/GG | 96 | 701 | | 0.87 | 0.59 - 1.3 | 0.506 | 0.558 |
| rs58239912 | 53842518 | AA | 42 | 308 | |  |  |  |  |
|  |  | AG/GG | 101 | 795 | | 0.96 | 0.64 - 1.45 | 0.859 | 0.87 |
| rs111357538 | 53842712 | AA | 12 | 86 | |  |  |  |  |
|  |  | AG/GG | 131 | 1017 | | 1.12 | 0.58 - 2.18 | 0.73 | 0.744 |
| rs12149832 | 53842908 | AA | 55 | 412 | |  |  |  |  |
|  |  | AG/GG | 87 | 685 | | 1.04 | 0.71 - 1.53 | 0.831 | 0.852 |
| rs115564065 | 53843596 | AA | 12 | 73 | |  |  |  |  |
|  |  | AG/GG | 131 | 1027 | | 1.39 | 0.71 - 2.72 | 0.341 | 0.341 |
| rs17218700 | 53844579 | AA | 22 | 136 | |  |  |  |  |
|  |  | AG/GG | 121 | 966 | | 1.26 | 0.74 - 2.14 | 0.387 | 0.431 |
| rs11642841 | 53845487 | AA | 56 | 389 | |  |  |  |  |
|  |  | AC/CC | 87 | 714 | | 1.19 | 0.81 - 1.75 | 0.369 | 0.483 |
| rs9935403 | 53846926 | AA | 39 | 235 | |  |  |  |  |
|  |  | AG/GG | 104 | 868 | | 1.2 | 0.78 - 1.85 | 0.399 | 0.447 |
| rs1861867 | 53848561 | AA | 60 | 458 | |  |  |  |  |
|  |  | AG/GG | 82 | 636 | | 1.07 | 0.74 - 1.57 | 0.712 | 0.771 |
| rs1421090 | 53850170 | CC | 62 | 536 | |  |  |  |  |
|  |  | CT/TT | 81 | 567 | | 0.79 | 0.55 - 1.15 | 0.218 | 0.341 |
| rs72622243 | 53850741 | AA | 13 | 98 | |  |  |  |  |
|  |  | AC/CC | 130 | 1005 | | 0.84 | 0.42 - 1.66 | 0.615 | 0.623 |
| rs9939811 | 53850868 | CC | 102 | 758 | |  |  |  |  |
|  |  | CT/TT | 39 | 343 | | 1.06 | 0.7 - 1.59 | 0.786 | 0.867 |
| rs9972717 | 53851304 | AA | 24 | 170 | |  |  |  |  |
|  |  | AG/GG | 118 | 927 | | 1.02 | 0.61 - 1.69 | 0.956 | 0.959 |
| rs9935366 | 53853415 | TT | 71 | 627 | |  |  |  |  |
|  |  | CT/CC | 72 | 452 | | 0.71 | 0.49 - 1.03 | 0.07 | 0.192 |
| rs9925952 | 53853898 | AA | 55 | 365 | |  |  |  |  |
|  |  | AG/GG | 88 | 736 | | 1.35 | 0.92 - 1.97 | 0.123 | 0.205 |
| rs17219084 | 53855600 | GG | 76 | 564 | |  |  |  |  |
|  |  | AG/AA | 67 | 539 | | 1.02 | 0.7 - 1.48 | 0.92 | 0.943 |
| rs62033423 | 53856438 | AA | 98 | 727 | |  |  |  |  |
|  |  | AG/GG | 45 | 376 | | 1 | 0.68 - 1.48 | 0.983 | 0.99 |
| rs74018601 | 53857113 | TT | 22 | 175 | |  |  |  |  |
|  |  | CT/CC | 121 | 928 | | 0.98 | 0.58 - 1.64 | 0.935 | 0.948 |
| rs11075996 | 53858024 | TT | 102 | 745 | |  |  |  |  |
|  |  | CT/CC | 41 | 358 | | 1.06 | 0.71 - 1.57 | 0.783 | 0.873 |
| rs2042032 | 53858583 | AA | 55 | 369 | |  |  |  |  |
|  |  | AG/GG | 88 | 733 | | 1.32 | 0.91 - 1.93 | 0.149 | 0.241 |
| rs11075997 | 53858912 | TT | 103 | 758 | |  |  |  |  |
|  |  | CT/CC | 40 | 345 | | 1.05 | 0.71 - 1.57 | 0.804 | 0.884 |
| rs10852523 | 53858954 | CC | 105 | 762 | |  |  |  |  |
|  |  | CT/TT | 38 | 339 | | 1.1 | 0.74 - 1.66 | 0.634 | 0.786 |
| rs7195539 | 53859158 | GG | 37 | 274 | |  |  |  |  |
|  |  | AG/AA | 106 | 825 | | 0.99 | 0.65 - 1.52 | 0.973 | 0.976 |
| rs3826169 | 53860481 | CC | 55 | 370 | |  |  |  |  |
|  |  | CT/TT | 88 | 733 | | 1.31 | 0.9 - 1.92 | 0.157 | 0.24 |
| rs117762862 | 53861021 | TT | 1 | 24 | |  |  |  |  |
|  |  | CT/CC | 142 | 1078 | | 0.35 | 0.05 - 2.67 | 0.314 | 0.26 |
| rs8061518 | 53861024 | GG | 77 | 693 | |  |  |  |  |
|  |  | AG/AA | 66 | 410 | | 0.71 | 0.49 - 1.02 | 0.065 | 0.203 |
| rs7184573 | 53861592 | AA | 75 | 551 | |  |  |  |  |
|  |  | AG/GG | 68 | 551 | | 1.03 | 0.71 - 1.49 | 0.88 | 0.909 |
| rs61492874 | 53863685 | TT | 2 | 32 | |  |  |  |  |
|  |  | CT/CC | 141 | 1071 | | 0.51 | 0.12 - 2.19 | 0.367 | 0.324 |
| rs10521307 | 53865701 | CC | 55 | 511 | |  |  |  |  |
|  |  | CT/TT | 88 | 592 | | 0.73 | 0.5 - 1.06 | 0.102 | 0.171 |
| rs16952570 | 53865730 | CC | 22 | 175 | |  |  |  |  |
|  |  | CT/TT | 121 | 927 | | 1.04 | 0.63 - 1.73 | 0.879 | 0.884 |
| rs9934528 | 53866287 | CC | 70 | 631 | |  |  |  |  |
|  |  | CT/TT | 73 | 472 | | 0.73 | 0.51 - 1.06 | 0.101 | 0.222 |
| rs72805632 | 53866445 | TT | 14 | 107 | |  |  |  |  |
|  |  | CT/CC | 128 | 987 | | 1 | 0.53 - 1.88 | 0.991 | 0.994 |
| rs62033431 | 53867471 | CC | 90 | 636 | |  |  |  |  |
|  |  | CT/TT | 53 | 467 | | 1.22 | 0.83 - 1.78 | 0.31 | 0.439 |
| rs7188989 | 53867565 | AA | 28 | 146 | |  |  |  |  |
|  |  | AG/GG | 115 | 957 | | 1.53 | 0.95 - 2.46 | 0.079 | 0.08 |
| rs114683042 | 53868231 | TT | 3 | 24 | |  |  |  |  |
|  |  | CT/CC | 140 | 1079 | | 1.1 | 0.32 - 3.8 | 0.88 | 0.866 |
| rs16952577 | 53868316 | TT | 104 | 722 | |  |  |  |  |
|  |  | GT/GG | 39 | 381 | | 1.32 | 0.87 - 1.98 | 0.189 | 0.357 |
| rs1421088 | 53869276 | TT | 26 | 134 | |  |  |  |  |
|  |  | CT/CC | 117 | 969 | | 1.53 | 0.93 - 2.49 | 0.092 | 0.093 |
| rs7203572 | 53869366 | CC | 90 | 633 | |  |  |  |  |
|  |  | AC/AA | 53 | 463 | | 1.22 | 0.83 - 1.78 | 0.317 | 0.456 |
| rs115076711 | 53871366 | AA | 10 | 71 | |  |  |  |  |
|  |  | AG/GG | 133 | 1032 | | 1.26 | 0.62 - 2.53 | 0.525 | 0.541 |
| rs28410925 | 53871421 | TT | 17 | 128 | |  |  |  |  |
|  |  | GT/GG | 126 | 975 | | 0.94 | 0.53 - 1.66 | 0.821 | 0.823 |
| rs61222151 | 53872587 | GG | 81 | 680 | |  |  |  |  |
|  |  | AG/AA | 59 | 391 | | 0.84 | 0.57 - 1.23 | 0.367 | 0.54 |
| rs17819033 | 53873103 | TT | 75 | 526 | |  |  |  |  |
|  |  | GT/GG | 68 | 576 | | 1.23 | 0.85 - 1.79 | 0.265 | 0.369 |
| rs17819063 | 53873428 | AA | 6 | 91 | |  |  |  |  |
|  |  | AG/GG | 137 | 1010 | | 0.57 | 0.24 - 1.33 | 0.194 | 0.216 |
| rs7188300 | 53874459 | AA | 75 | 525 | |  |  |  |  |
|  |  | AG/GG | 68 | 578 | | 1.24 | 0.86 - 1.8 | 0.252 | 0.358 |
| rs6499652 | 53874580 | CC | 84 | 699 | |  |  |  |  |
|  |  | CT/TT | 59 | 404 | | 0.87 | 0.6 - 1.28 | 0.484 | 0.632 |
| rs7190053 | 53874657 | TT | 29 | 195 | |  |  |  |  |
|  |  | CT/CC | 114 | 907 | | 1.19 | 0.75 - 1.9 | 0.465 | 0.484 |
| rs2111115 | 53875016 | TT | 63 | 564 | |  |  |  |  |
|  |  | CT/CC | 80 | 539 | | 0.83 | 0.57 - 1.2 | 0.32 | 0.454 |
| rs73617807 | 53877274 | TT | 9 | 81 | |  |  |  |  |
|  |  | CT/CC | 134 | 1022 | | 0.78 | 0.37 - 1.66 | 0.516 | 0.53 |
| rs72805641 | 53879114 | CC | 90 | 696 | |  |  |  |  |
|  |  | CT/TT | 53 | 406 | | 1.02 | 0.7 - 1.49 | 0.918 | 0.947 |
| rs55986455 | 53879470 | CC | 90 | 696 | |  |  |  |  |
|  |  | AC/AA | 53 | 407 | | 1.02 | 0.7 - 1.5 | 0.911 | 0.941 |
| rs73617811 | 53879530 | GG | 29 | 198 | |  |  |  |  |
|  |  | AG/AA | 114 | 904 | | 1.05 | 0.66 - 1.68 | 0.83 | 0.838 |
| rs61471078 | 53879790 | CC | 90 | 696 | |  |  |  |  |
|  |  | CT/TT | 53 | 407 | | 1.02 | 0.7 - 1.5 | 0.912 | 0.935 |
| rs55844219 | 53881219 | TT | 60 | 510 | |  |  |  |  |
|  |  | CT/CC | 83 | 591 | | 0.85 | 0.58 - 1.23 | 0.386 | 0.456 |
| rs8061228 | 53882371 | CC | 90 | 689 | |  |  |  |  |
|  |  | CT/TT | 53 | 414 | | 1.08 | 0.73 - 1.58 | 0.709 | 0.802 |
| rs12448529 | 53882657 | TT | 52 | 417 | |  |  |  |  |
|  |  | CT/CC | 91 | 686 | | 0.94 | 0.64 - 1.38 | 0.762 | 0.808 |
| rs77290412 | 53883728 | GG | 5 | 53 | |  |  |  |  |
|  |  | AG/AA | 138 | 1050 | | 0.73 | 0.28 - 1.89 | 0.519 | 0.534 |
| rs75946933 | 53884053 | TT | 15 | 124 | |  |  |  |  |
|  |  | CT/CC | 128 | 979 | | 1.02 | 0.57 - 1.83 | 0.94 | 0.946 |
| rs2160481 | 53884113 | CC | 48 | 366 | |  |  |  |  |
|  |  | CT/TT | 95 | 737 | | 1.01 | 0.68 - 1.5 | 0.954 | 0.962 |
| rs10521306 | 53884404 | CC | 89 | 679 | |  |  |  |  |
|  |  | CT/TT | 54 | 419 | | 1.08 | 0.74 - 1.58 | 0.699 | 0.811 |
| rs74558124 | 53884664 | TT | 18 | 97 | |  |  |  |  |
|  |  | CT/CC | 125 | 1005 | | 1.59 | 0.91 - 2.79 | 0.104 | 0.106 |
| rs12444276 | 53884813 | TT | 61 | 468 | |  |  |  |  |
|  |  | GT/GG | 82 | 630 | | 1.04 | 0.71 - 1.5 | 0.849 | 0.884 |
| rs12447422 | 53884820 | GG | 61 | 473 | |  |  |  |  |
|  |  | AG/AA | 82 | 630 | | 1.03 | 0.71 - 1.49 | 0.892 | 0.906 |
| rs11076001 | 53885518 | AA | 65 | 532 | |  |  |  |  |
|  |  | AG/GG | 78 | 571 | | 0.92 | 0.64 - 1.34 | 0.672 | 0.743 |
| rs12448833 | 53885778 | GG | 73 | 597 | |  |  |  |  |
|  |  | GT/TT | 70 | 506 | | 0.91 | 0.63 - 1.31 | 0.611 | 0.716 |
| rs75020106 | 53886328 | TT | 2 | 33 | |  |  |  |  |
|  |  | GT/GG | 141 | 1069 | | 0.48 | 0.11 - 2.05 | 0.324 | 0.33 |
| rs77423723 | 53886535 | GG | 14 | 71 | |  |  |  |  |
|  |  | AG/AA | 129 | 1032 | | 1.61 | 0.85 - 3.02 | 0.142 | 0.142 |
| rs13337496 | 53887230 | AA | 103 | 815 | |  |  |  |  |
|  |  | AG/GG | 39 | 288 | | 0.95 | 0.62 - 1.45 | 0.815 | 0.893 |
| rs12597422 | 53887738 | GG | 87 | 663 | |  |  |  |  |
|  |  | AG/AA | 56 | 436 | | 1.06 | 0.72 - 1.56 | 0.761 | 0.826 |
| rs16952592 | 53889450 | GG | 29 | 197 | |  |  |  |  |
|  |  | AG/AA | 113 | 896 | | 1.18 | 0.74 - 1.88 | 0.481 | 0.532 |
| rs16952594 | 53889879 | AA | 29 | 196 | |  |  |  |  |
|  |  | AC/CC | 114 | 906 | | 1.19 | 0.75 - 1.89 | 0.464 | 0.512 |
| kgp11071194 | 53890007 | AA | 102 | 783 | |  |  |  |  |
|  |  | AT/TT | 36 | 298 | | 1.1 | 0.71 - 1.71 | 0.674 | 0.799 |
| rs9936319 | 53890188 | GG | 107 | 797 | |  |  |  |  |
|  |  | AG/AA | 36 | 305 | | 1.16 | 0.75 - 1.79 | 0.513 | 0.699 |
| rs77140256 | 53891907 | TT | 37 | 305 | |  |  |  |  |
|  |  | CT/CC | 106 | 797 | | 0.89 | 0.59 - 1.36 | 0.598 | 0.642 |
| rs73607622 | 53894222 | TT | 6 | 38 | |  |  |  |  |
|  |  | GT/GG | 137 | 1064 | | 1.29 | 0.53 - 3.17 | 0.575 | 0.594 |
| rs17820328 | 53895804 | GG | 21 | 136 | |  |  |  |  |
|  |  | AG/AA | 122 | 966 | | 1.22 | 0.71 - 2.08 | 0.475 | 0.498 |
| rs16952608 | 53897352 | CC | 78 | 524 | |  |  |  |  |
|  |  | CT/TT | 65 | 579 | | 1.26 | 0.87 - 1.84 | 0.224 | 0.343 |
| rs9933889 | 53898506 | TT | 18 | 137 | |  |  |  |  |
|  |  | CT/CC | 125 | 965 | | 0.94 | 0.53 - 1.64 | 0.816 | 0.824 |
| rs9936768 | 53899563 | TT | 60 | 388 | |  |  |  |  |
|  |  | CT/CC | 83 | 715 | | 1.22 | 0.84 - 1.79 | 0.297 | 0.365 |
| rs79858470 | 53902420 | GG | 16 | 131 | |  |  |  |  |
|  |  | AG/AA | 127 | 968 | | 0.96 | 0.54 - 1.72 | 0.901 | 0.908 |
| rs116755627 | 53903544 | AA | 4 | 39 | |  |  |  |  |
|  |  | AG/GG | 139 | 1063 | | 0.81 | 0.28 - 2.34 | 0.703 | 0.679 |
| rs114184644 | 53904311 | TT | 8 | 47 | |  |  |  |  |
|  |  | CT/CC | 135 | 1056 | | 1.43 | 0.66 - 3.13 | 0.368 | 0.367 |
| rs57173026 | 53906726 | AA | 5 | 35 | |  |  |  |  |
|  |  | AG/GG | 138 | 1067 | | 1.15 | 0.44 - 3.04 | 0.775 | 0.778 |
| rs7188378 | 53906852 | CC | 107 | 795 | |  |  |  |  |
|  |  | CT/TT | 36 | 308 | | 1.14 | 0.75 - 1.74 | 0.544 | 0.698 |
| rs10521303 | 53909185 | AA | 111 | 792 | |  |  |  |  |
|  |  | AC/CC | 32 | 309 | | 1.44 | 0.92 - 2.24 | 0.108 | 0.304 |
| rs7191718 | 53911023 | TT | 104 | 813 | |  |  |  |  |
|  |  | CT/CC | 39 | 289 | | 0.95 | 0.63 - 1.43 | 0.796 | 0.88 |
| rs73607667 | 53915414 | TT | 5 | 37 | |  |  |  |  |
|  |  | CT/CC | 138 | 1066 | | 1.09 | 0.41 - 2.85 | 0.868 | 0.876 |
| rs1558756 | 53916508 | TT | 71 | 559 | |  |  |  |  |
|  |  | CT/CC | 72 | 544 | | 0.91 | 0.63 - 1.32 | 0.629 | 0.726 |
| rs9934504 | 53916879 | AA | 57 | 385 | |  |  |  |  |
|  |  | AG/GG | 86 | 718 | | 1.2 | 0.82 - 1.76 | 0.339 | 0.401 |
| rs78758816 | 53919454 | GG | 25 | 209 | |  |  |  |  |
|  |  | AG/AA | 118 | 892 | | 0.91 | 0.56 - 1.48 | 0.711 | 0.733 |
| rs72807785 | 53920607 | CC | 28 | 188 | |  |  |  |  |
|  |  | CT/TT | 115 | 914 | | 1.21 | 0.75 - 1.93 | 0.438 | 0.481 |
| rs16952624 | 53922838 | TT | 4 | 37 | |  |  |  |  |
|  |  | CT/CC | 139 | 1065 | | 0.86 | 0.3 - 2.48 | 0.78 | 0.776 |
| rs58160537 | 53922975 | CC | 11 | 78 | |  |  |  |  |
|  |  | CT/TT | 132 | 1025 | | 0.91 | 0.44 - 1.88 | 0.801 | 0.8 |
| rs9932201 | 53923046 | AA | 19 | 145 | |  |  |  |  |
|  |  | AC/CC | 124 | 958 | | 0.94 | 0.55 - 1.63 | 0.836 | 0.844 |
| rs79155755 | 53925558 | AA | 10 | 93 | |  |  |  |  |
|  |  | AG/GG | 133 | 1010 | | 0.81 | 0.4 - 1.66 | 0.568 | 0.582 |
| rs17820875 | 53926790 | GG | 42 | 271 | |  |  |  |  |
|  |  | AG/AA | 101 | 820 | | 1.3 | 0.86 - 1.95 | 0.21 | 0.258 |
| rs11076008 | 53927323 | AA | 105 | 810 | |  |  |  |  |
|  |  | AG/GG | 38 | 293 | | 0.92 | 0.6 - 1.39 | 0.681 | 0.804 |
| rs12933928 | 53930993 | GG | 33 | 236 | |  |  |  |  |
|  |  | AG/AA | 110 | 866 | | 1.12 | 0.72 - 1.73 | 0.621 | 0.641 |
| rs79195386 | 53931903 | CC | 27 | 221 | |  |  |  |  |
|  |  | CT/TT | 115 | 866 | | 0.93 | 0.58 - 1.5 | 0.78 | 0.798 |
| rs7189190 | 53932631 | GG | 56 | 479 | |  |  |  |  |
|  |  | AG/AA | 87 | 623 | | 0.82 | 0.56 - 1.19 | 0.294 | 0.377 |
| rs1362570 | 53933547 | GG | 64 | 512 | |  |  |  |  |
|  |  | AG/AA | 79 | 591 | | 0.91 | 0.62 - 1.32 | 0.605 | 0.647 |
| rs74019298 | 53933912 | TT | 21 | 157 | |  |  |  |  |
|  |  | CT/CC | 122 | 942 | | 1 | 0.59 - 1.68 | 0.994 | 0.994 |
| rs16952634 | 53934556 | AA | 41 | 370 | |  |  |  |  |
|  |  | AG/GG | 102 | 733 | | 0.83 | 0.55 - 1.24 | 0.354 | 0.42 |
| rs77302327 | 53935929 | TT | 6 | 30 | |  |  |  |  |
|  |  | CT/CC | 137 | 1073 | | 1.84 | 0.73 - 4.6 | 0.193 | 0.166 |
| rs17222465 | 53936453 | AA | 59 | 465 | |  |  |  |  |
|  |  | AC/CC | 84 | 638 | | 0.92 | 0.63 - 1.34 | 0.657 | 0.707 |
| rs11076009 | 53936758 | CC | 64 | 496 | |  |  |  |  |
|  |  | CG/GG | 79 | 604 | | 1.04 | 0.72 - 1.5 | 0.853 | 0.876 |
| rs2111112 | 53937632 | TT | 99 | 747 | |  |  |  |  |
|  |  | CT/CC | 44 | 356 | | 1.07 | 0.72 - 1.59 | 0.747 | 0.818 |
| rs7193118 | 53938338 | AA | 24 | 222 | |  |  |  |  |
|  |  | AG/GG | 119 | 881 | | 0.82 | 0.5 - 1.32 | 0.406 | 0.436 |
| rs10852525 | 53939081 | AA | 41 | 305 | |  |  |  |  |
|  |  | AG/GG | 102 | 798 | | 1.08 | 0.72 - 1.62 | 0.721 | 0.755 |
| rs115530394 | 53940012 | GG | 12 | 48 | |  |  |  |  |
|  |  | AG/AA | 131 | 1055 | | 2.42 | 1.23 - 4.77 | **0.01** | **0.003** |
| rs114568356 | 53940293 | TT | 11 | 82 | |  |  |  |  |
|  |  | CT/CC | 132 | 1021 | | 0.94 | 0.46 - 1.94 | 0.87 | 0.874 |
| rs80283124 | 53940314 | AA | 5 | 21 | |  |  |  |  |
|  |  | AG/GG | 138 | 1082 | | 1.18 | 0.34 - 4.07 | 0.793 | 0.88 |
| rs56379708 | 53941664 | TT | 70 | 521 | |  |  |  |  |
|  |  | CT/CC | 71 | 578 | | 1.11 | 0.76 - 1.6 | 0.593 | 0.672 |
| rs11076010 | 53941868 | AA | 39 | 276 | |  |  |  |  |
|  |  | AG/GG | 104 | 827 | | 1.1 | 0.72 - 1.66 | 0.672 | 0.712 |
| rs8056040 | 53942144 | GG | 29 | 172 | |  |  |  |  |
|  |  | AG/AA | 114 | 929 | | 1.3 | 0.81 - 2.09 | 0.27 | 0.307 |
| rs4784330 | 53942284 | CC | 40 | 282 | |  |  |  |  |
|  |  | CT/TT | 103 | 821 | | 1.1 | 0.73 - 1.66 | 0.654 | 0.698 |
| rs12935710 | 53942805 | TT | 83 | 651 | |  |  |  |  |
|  |  | CT/CC | 60 | 452 | | 0.93 | 0.64 - 1.35 | 0.706 | 0.795 |
| kgp16351773 | 53946102 | TT | 55 | 414 | |  |  |  |  |
|  |  | GT/GG | 88 | 686 | | 1.07 | 0.73 - 1.57 | 0.73 | 0.783 |
| rs7188162 | 53946501 | GG | 47 | 327 | |  |  |  |  |
|  |  | AG/AA | 96 | 774 | | 1.16 | 0.78 - 1.72 | 0.476 | 0.549 |
| rs75693357 | 53946541 | CC | 6 | 69 | |  |  |  |  |
|  |  | CT/TT | 137 | 1034 | | 0.73 | 0.31 - 1.72 | 0.468 | 0.472 |
| rs17821532 | 53946698 | AA | 7 | 44 | |  |  |  |  |
|  |  | AG/GG | 136 | 1059 | | 1.31 | 0.53 - 3.2 | 0.556 | 0.559 |
| rs1861551 | 53948194 | TT | 78 | 571 | |  |  |  |  |
|  |  | AT/AA | 64 | 525 | | 1.12 | 0.78 - 1.63 | 0.537 | 0.647 |
| rs114019148 | 53949560 | AA | 12 | 54 | |  |  |  |  |
|  |  | AG/GG | 131 | 1048 | | 2.1 | 1.08 - 4.12 | **0.029** | **0.014** |
| rs9806929 | 53949916 | AA | 32 | 242 | |  |  |  |  |
|  |  | AG/GG | 111 | 860 | | 1.02 | 0.65 - 1.58 | 0.943 | 0.951 |
| rs7197167 | 53951353 | GG | 99 | 741 | |  |  |  |  |
|  |  | GT/TT | 44 | 356 | | 1.07 | 0.72 - 1.6 | 0.729 | 0.842 |
| rs1344503 | 53952946 | TT | 55 | 426 | |  |  |  |  |
|  |  | CT/CC | 88 | 676 | | 0.96 | 0.65 - 1.4 | 0.818 | 0.846 |
| rs12232391 | 53953119 | GG | 66 | 476 | |  |  |  |  |
|  |  | GT/TT | 77 | 627 | | 1.13 | 0.78 - 1.64 | 0.516 | 0.606 |
| rs7193851 | 53953145 | CC | 60 | 492 | |  |  |  |  |
|  |  | CT/TT | 83 | 611 | | 0.88 | 0.61 - 1.28 | 0.508 | 0.62 |
| rs8053966 | 53953998 | CC | 84 | 684 | |  |  |  |  |
|  |  | CT/TT | 59 | 419 | | 0.87 | 0.6 - 1.27 | 0.468 | 0.63 |
| rs16952647 | 53954707 | AA | 4 | 43 | |  |  |  |  |
|  |  | AG/GG | 139 | 1060 | | 0.76 | 0.26 - 2.16 | 0.603 | 0.587 |
| rs9940068 | 53955980 | AA | 16 | 134 | |  |  |  |  |
|  |  | AG/GG | 127 | 969 | | 0.82 | 0.45 - 1.48 | 0.509 | 0.522 |
| rs16952649 | 53956052 | TT | 56 | 433 | |  |  |  |  |
|  |  | CT/CC | 87 | 670 | | 0.98 | 0.67 - 1.43 | 0.899 | 0.924 |
| rs7201878 | 53956125 | CC | 88 | 678 | |  |  |  |  |
|  |  | CT/TT | 55 | 424 | | 0.98 | 0.67 - 1.43 | 0.925 | 0.946 |
| rs11076011 | 53956827 | GG | 78 | 565 | |  |  |  |  |
|  |  | AG/AA | 65 | 538 | | 1.19 | 0.82 - 1.72 | 0.359 | 0.491 |
| rs7204611 | 53957721 | AA | 99 | 799 | |  |  |  |  |
|  |  | AG/GG | 44 | 304 | | 0.9 | 0.6 - 1.35 | 0.609 | 0.765 |
| rs80174482 | 53959298 | AA | 2 | 31 | |  |  |  |  |
|  |  | AG/GG | 141 | 1072 | | 0.51 | 0.12 - 2.15 | 0.357 | 0.333 |
| rs12918495 | 53960365 | TT | 84 | 648 | |  |  |  |  |
|  |  | CT/CC | 59 | 455 | | 1.1 | 0.76 - 1.6 | 0.62 | 0.736 |
| rs12932428 | 53960527 | CC | 100 | 772 | |  |  |  |  |
|  |  | CT/TT | 43 | 331 | | 1.02 | 0.68 - 1.53 | 0.915 | 0.953 |
| rs4783826 | 53961354 | GG | 100 | 768 | |  |  |  |  |
|  |  | AG/AA | 43 | 335 | | 1.06 | 0.71 - 1.59 | 0.768 | 0.869 |
| rs12919488 | 53961502 | TT | 64 | 467 | |  |  |  |  |
|  |  | CT/CC | 79 | 636 | | 1.1 | 0.76 - 1.59 | 0.629 | 0.705 |
| rs71390222 | 53964964 | CC | 12 | 108 | |  |  |  |  |
|  |  | CT/TT | 127 | 979 | | 0.82 | 0.43 - 1.58 | 0.557 | 0.568 |
| rs9924072 | 53966063 | AA | 85 | 647 | |  |  |  |  |
|  |  | AG/GG | 58 | 456 | | 1.07 | 0.73 - 1.57 | 0.713 | 0.802 |
| rs28409979 | 53967127 | AA | 26 | 209 | |  |  |  |  |
|  |  | AG/GG | 117 | 893 | | 0.91 | 0.57 - 1.47 | 0.714 | 0.734 |
| rs111391356 | 53968145 | GG | 5 | 32 | |  |  |  |  |
|  |  | AG/AA | 138 | 1069 | | 1.3 | 0.49 - 3.42 | 0.594 | 0.609 |
| rs4784333 | 53969088 | GG | 103 | 782 | |  |  |  |  |
|  |  | GC/CC | 39 | 315 | | 1.09 | 0.71 - 1.65 | 0.698 | 0.814 |
| rs79868385 | 53972071 | TT | 5 | 64 | |  |  |  |  |
|  |  | CT/CC | 138 | 1039 | | 0.49 | 0.17 - 1.36 | 0.169 | 0.168 |
| rs78395109 | 53973380 | AA | 40 | 294 | |  |  |  |  |
|  |  | AG/GG | 103 | 809 | | 1.01 | 0.66 - 1.53 | 0.976 | 0.977 |
| rs7205426 | 53973807 | AA | 64 | 524 | |  |  |  |  |
|  |  | AC/CC | 79 | 579 | | 0.98 | 0.67 - 1.43 | 0.922 | 0.939 |
| rs74022304 | 53974575 | AA | 24 | 121 | |  |  |  |  |
|  |  | AG/GG | 119 | 982 | | 1.59 | 0.96 - 2.63 | 0.071 | 0.079 |
| rs12933996 | 53976662 | GG | 100 | 792 | |  |  |  |  |
|  |  | AG/AA | 43 | 311 | | 0.89 | 0.59 - 1.33 | 0.561 | 0.656 |
| rs76330623 | 53977414 | GG | 22 | 127 | |  |  |  |  |
|  |  | AG/AA | 121 | 974 | | 1.53 | 0.91 - 2.56 | 0.111 | 0.122 |
| rs16952663 | 53979100 | AA | 21 | 103 | |  |  |  |  |
|  |  | AG/GG | 122 | 1000 | | 1.7 | 1.01 - 2.88 | **0.048** | **0.049** |
| rs79587397 | 53979639 | GG | 19 | 161 | |  |  |  |  |
|  |  | GT/TT | 123 | 942 | | 0.86 | 0.5 - 1.47 | 0.574 | 0.602 |
| rs9924877 | 53981421 | AA | 59 | 434 | |  |  |  |  |
|  |  | AG/GG | 83 | 668 | | 1.08 | 0.74 - 1.57 | 0.68 | 0.738 |
| rs56686164 | 53982171 | TT | 14 | 93 | |  |  |  |  |
|  |  | CT/CC | 129 | 1009 | | 1.09 | 0.57 - 2.07 | 0.799 | 0.813 |
| rs7197239 | 53982749 | GG | 51 | 305 | |  |  |  |  |
|  |  | AG/AA | 92 | 797 | | 1.45 | 0.98 - 2.14 | 0.064 | 0.098 |
| rs7202103 | 53983955 | TT | 18 | 137 | |  |  |  |  |
|  |  | GT/GG | 125 | 964 | | 1 | 0.57 - 1.75 | 0.993 | 0.993 |
| rs12925189 | 53985273 | AA | 72 | 605 | |  |  |  |  |
|  |  | AG/GG | 71 | 496 | | 0.87 | 0.59 - 1.27 | 0.458 | 0.553 |
| kgp22835587 | 53985447 | GG | 106 | 809 | |  |  |  |  |
|  |  | AG/AA | 37 | 293 | | 1.05 | 0.69 - 1.59 | 0.824 | 0.889 |
| rs79572579 | 53987309 | GG | 15 | 83 | |  |  |  |  |
|  |  | AG/AA | 128 | 1020 | | 1.57 | 0.85 - 2.87 | 0.147 | 0.14 |
| rs35510800 | 53988267 | AA | 77 | 569 | |  |  |  |  |
|  |  | AG/GG | 66 | 531 | | 0.94 | 0.65 - 1.36 | 0.746 | 0.794 |
| rs6499656 | 53988955 | CC | 12 | 127 | |  |  |  |  |
|  |  | CG/GG | 131 | 975 | | 0.71 | 0.37 - 1.36 | 0.306 | 0.326 |
| rs6499657 | 53988978 | CC | 14 | 129 | |  |  |  |  |
|  |  | CG/GG | 129 | 971 | | 0.76 | 0.41 - 1.43 | 0.399 | 0.422 |
| rs72809607 | 53989107 | CC | 32 | 271 | |  |  |  |  |
|  |  | AC/AA | 110 | 829 | | 0.81 | 0.52 - 1.28 | 0.37 | 0.411 |
| rs72809609 | 53989442 | AA | 34 | 282 | |  |  |  |  |
|  |  | AG/GG | 109 | 821 | | 0.83 | 0.54 - 1.29 | 0.41 | 0.45 |
| rs16952686 | 53989673 | GG | 30 | 187 | |  |  |  |  |
|  |  | AG/AA | 113 | 913 | | 1.2 | 0.75 - 1.9 | 0.45 | 0.469 |
| rs7191513 | 53990523 | AA | 109 | 809 | |  |  |  |  |
|  |  | AG/GG | 34 | 294 | | 1.15 | 0.74 - 1.77 | 0.53 | 0.686 |
| rs17224310 | 53990953 | TT | 34 | 282 | |  |  |  |  |
|  |  | CT/CC | 109 | 818 | | 0.83 | 0.53 - 1.28 | 0.394 | 0.43 |
| rs17224394 | 53991402 | AA | 34 | 283 | |  |  |  |  |
|  |  | AG/GG | 109 | 820 | | 0.83 | 0.53 - 1.28 | 0.392 | 0.43 |
| rs57957459 | 53992287 | AA | 32 | 228 | |  |  |  |  |
|  |  | AG/GG | 111 | 875 | | 1.01 | 0.64 - 1.59 | 0.966 | 0.967 |
| rs6499658 | 53992704 | AA | 13 | 111 | |  |  |  |  |
|  |  | AT/TT | 130 | 992 | | 0.9 | 0.48 - 1.68 | 0.732 | 0.732 |
| rs1861555 | 53994467 | TT | 32 | 242 | |  |  |  |  |
|  |  | CT/CC | 111 | 859 | | 0.97 | 0.62 - 1.51 | 0.879 | 0.887 |
| rs11644943 | 53995584 | AA | 59 | 411 | |  |  |  |  |
|  |  | AT/TT | 82 | 687 | | 1.09 | 0.75 - 1.59 | 0.655 | 0.707 |
| rs17823199 | 53998930 | CC | 110 | 822 | |  |  |  |  |
|  |  | CT/TT | 33 | 281 | | 1.15 | 0.74 - 1.8 | 0.533 | 0.714 |
| rs7199210 | 54000588 | CC | 31 | 292 | |  |  |  |  |
|  |  | AC/AA | 111 | 809 | | 0.83 | 0.54 - 1.27 | 0.389 | 0.456 |
| rs1344502 | 54000792 | CC | 87 | 580 | |  |  |  |  |
|  |  | CT/TT | 56 | 523 | | 1.26 | 0.87 - 1.83 | 0.226 | 0.368 |
| rs16952703 | 54002333 | CC | 19 | 127 | |  |  |  |  |
|  |  | AC/AA | 124 | 976 | | 1.27 | 0.74 - 2.15 | 0.383 | 0.388 |
| rs78780482 | 54003374 | AA | 4 | 22 | |  |  |  |  |
|  |  | AG/GG | 139 | 1081 | | 1.7 | 0.57 - 5.09 | 0.342 | 0.298 |
| rs7194907 | 54003483 | CC | 106 | 748 | |  |  |  |  |
|  |  | CT/TT | 37 | 355 | | 1.25 | 0.83 - 1.89 | 0.283 | 0.492 |
| rs80006777 | 54003900 | CC | 6 | 42 | |  |  |  |  |
|  |  | AC/AA | 137 | 1061 | | 1.03 | 0.39 - 2.68 | 0.956 | 0.938 |
| rs9940629 | 54004811 | AA | 92 | 710 | |  |  |  |  |
|  |  | AG/GG | 51 | 393 | | 0.95 | 0.65 - 1.4 | 0.808 | 0.874 |
| rs7184244 | 54005100 | CC | 88 | 664 | |  |  |  |  |
|  |  | AC/AA | 54 | 430 | | 0.98 | 0.67 - 1.43 | 0.925 | 0.945 |
| rs9932411 | 54005163 | TT | 94 | 767 | |  |  |  |  |
|  |  | CT/CC | 49 | 333 | | 0.78 | 0.53 - 1.16 | 0.22 | 0.412 |
| rs7206456 | 54005489 | AA | 49 | 374 | |  |  |  |  |
|  |  | AG/GG | 94 | 729 | | 1.02 | 0.69 - 1.51 | 0.917 | 0.926 |
| rs7185783 | 54007822 | TT | 94 | 755 | |  |  |  |  |
|  |  | GT/GG | 49 | 348 | | 0.87 | 0.58 - 1.29 | 0.478 | 0.637 |
| rs113014601 | 54008225 | CC | 15 | 77 | |  |  |  |  |
|  |  | AC/AA | 128 | 1024 | | 1.57 | 0.85 - 2.88 | 0.147 | 0.164 |
| rs7192835 | 54008455 | TT | 34 | 325 | |  |  |  |  |
|  |  | CT/CC | 109 | 778 | | 0.7 | 0.45 - 1.08 | 0.106 | 0.133 |
| rs8056299 | 54009501 | GG | 64 | 481 | |  |  |  |  |
|  |  | AG/AA | 77 | 616 | | 1.07 | 0.73 - 1.56 | 0.731 | 0.788 |
| rs9302654 | 54009545 | TT | 46 | 406 | |  |  |  |  |
|  |  | CT/CC | 95 | 686 | | 0.79 | 0.53 - 1.17 | 0.237 | 0.321 |
| rs9888758 | 54010321 | GG | 30 | 257 | |  |  |  |  |
|  |  | AG/AA | 113 | 846 | | 0.96 | 0.62 - 1.48 | 0.849 | 0.863 |
| rs77345086 | 54013478 | CC | 25 | 198 | |  |  |  |  |
|  |  | CT/TT | 118 | 905 | | 1.06 | 0.66 - 1.68 | 0.821 | 0.837 |
| rs75066479 | 54014035 | GG | 9 | 38 | |  |  |  |  |
|  |  | GT/TT | 134 | 1065 | | 2.47 | 1.14 - 5.35 | **0.022** | **0.008** |
| rs16952728 | 54014643 | GG | 30 | 272 | |  |  |  |  |
|  |  | CG/CC | 113 | 820 | | 0.79 | 0.51 - 1.24 | 0.312 | 0.4 |
| rs17225435 | 54016452 | GG | 20 | 181 | |  |  |  |  |
|  |  | AG/AA | 123 | 922 | | 0.84 | 0.49 - 1.42 | 0.505 | 0.569 |
| rs16952730 | 54018921 | AA | 70 | 530 | |  |  |  |  |
|  |  | AG/GG | 73 | 572 | | 1.12 | 0.78 - 1.62 | 0.547 | 0.631 |
| rs12325409 | 54019633 | GG | 54 | 376 | |  |  |  |  |
|  |  | GT/TT | 89 | 726 | | 1.28 | 0.87 - 1.86 | 0.207 | 0.267 |
| rs11076012 | 54019648 | TT | 57 | 480 | |  |  |  |  |
|  |  | CT/CC | 86 | 622 | | 0.79 | 0.54 - 1.16 | 0.235 | 0.283 |
| rs12324955 | 54019686 | AA | 97 | 723 | |  |  |  |  |
|  |  | AG/GG | 45 | 380 | | 1.2 | 0.8 - 1.79 | 0.378 | 0.468 |
| rs115662052 | 54019749 | GG | 9 | 38 | |  |  |  |  |
|  |  | AG/AA | 134 | 1065 | | 2.52 | 1.16 - 5.5 | **0.019** | **0.012** |
| rs9924983 | 54020442 | CC | 109 | 812 | |  |  |  |  |
|  |  | CT/TT | 34 | 291 | | 1.09 | 0.71 - 1.67 | 0.688 | 0.811 |
| rs8049235 | 54021009 | AA | 97 | 751 | |  |  |  |  |
|  |  | AG/GG | 45 | 348 | | 0.96 | 0.64 - 1.42 | 0.823 | 0.885 |
| rs9933107 | 54023516 | TT | 77 | 578 | |  |  |  |  |
|  |  | GT/GG | 66 | 525 | | 1.02 | 0.7 - 1.47 | 0.932 | 0.949 |
| rs9933805 | 54023584 | CC | 74 | 540 | |  |  |  |  |
|  |  | CT/TT | 68 | 560 | | 1.06 | 0.73 - 1.53 | 0.76 | 0.823 |
| rs8056199 | 54025172 | AA | 110 | 794 | |  |  |  |  |
|  |  | AG/GG | 33 | 307 | | 1.24 | 0.81 - 1.91 | 0.324 | 0.563 |
| rs6499662 | 54026739 | GG | 55 | 410 | |  |  |  |  |
|  |  | AG/AA | 88 | 693 | | 1.05 | 0.71 - 1.54 | 0.806 | 0.843 |
| rs12596210 | 54027971 | CC | 34 | 259 | |  |  |  |  |
|  |  | CT/TT | 109 | 844 | | 1.09 | 0.71 - 1.67 | 0.702 | 0.736 |
| rs11864881 | 54029304 | AA | 89 | 673 | |  |  |  |  |
|  |  | AC/CC | 54 | 430 | | 1.02 | 0.7 - 1.49 | 0.928 | 0.955 |
| rs11076013 | 54029528 | AA | 91 | 707 | |  |  |  |  |
|  |  | AG/GG | 52 | 396 | | 0.95 | 0.65 - 1.39 | 0.79 | 0.87 |
| rs16952751 | 54029578 | CC | 26 | 223 | |  |  |  |  |
|  |  | AC/AA | 117 | 879 | | 0.89 | 0.56 - 1.41 | 0.617 | 0.646 |
| rs1966435 | 54030526 | TT | 76 | 583 | |  |  |  |  |
|  |  | CT/CC | 67 | 520 | | 1.02 | 0.71 - 1.48 | 0.9 | 0.925 |
| rs8062658 | 54031689 | CC | 57 | 474 | |  |  |  |  |
|  |  | CT/TT | 86 | 625 | | 0.87 | 0.59 - 1.27 | 0.466 | 0.524 |
| rs16952756 | 54032274 | CC | 24 | 214 | |  |  |  |  |
|  |  | CT/TT | 119 | 889 | | 0.83 | 0.51 - 1.34 | 0.449 | 0.471 |
| rs11646260 | 54032493 | GG | 2 | 29 | |  |  |  |  |
|  |  | AG/AA | 140 | 1067 | | 0.27 | 0.04 - 2.01 | 0.2 | 0.148 |
| rs11646488 | 54033075 | GG | 40 | 302 | |  |  |  |  |
|  |  | AG/AA | 103 | 801 | | 1.12 | 0.75 - 1.68 | 0.579 | 0.625 |
| rs7193938 | 54033135 | TT | 78 | 553 | |  |  |  |  |
|  |  | CT/CC | 65 | 546 | | 1.23 | 0.85 - 1.79 | 0.271 | 0.419 |
| rs1861356 | 54033845 | CC | 81 | 606 | |  |  |  |  |
|  |  | CT/TT | 62 | 497 | | 1.06 | 0.73 - 1.54 | 0.755 | 0.814 |
| rs75269983 | 54033869 | TT | 1 | 27 | |  |  |  |  |
|  |  | CT/CC | 142 | 1074 | | 0.32 | 0.04 - 2.39 | 0.265 | 0.242 |
| rs56281622 | 54035832 | AA | 21 | 208 | |  |  |  |  |
|  |  | AG/GG | 122 | 895 | | 0.64 | 0.37 - 1.11 | 0.111 | 0.147 |
| rs62035808 | 54035880 | GG | 5 | 22 | |  |  |  |  |
|  |  | AG/AA | 137 | 1074 | | 2.13 | 0.78 - 5.85 | 0.141 | 0.071 |
| rs7200972 | 54036352 | GG | 60 | 489 | |  |  |  |  |
|  |  | AG/AA | 83 | 608 | | 0.9 | 0.62 - 1.32 | 0.591 | 0.64 |
| rs9925908 | 54038336 | TT | 75 | 524 | |  |  |  |  |
|  |  | CT/CC | 68 | 577 | | 1.3 | 0.9 - 1.88 | 0.169 | 0.289 |
| rs7199363 | 54039014 | CC | 93 | 657 | |  |  |  |  |
|  |  | CT/TT | 50 | 442 | | 1.39 | 0.94 - 2.05 | 0.103 | 0.247 |
| rs12931859 | 54039486 | TT | 33 | 262 | |  |  |  |  |
|  |  | CT/CC | 110 | 838 | | 1.03 | 0.67 - 1.58 | 0.893 | 0.895 |
| rs9922370 | 54040916 | GG | 65 | 428 | |  |  |  |  |
|  |  | AG/AA | 78 | 672 | | 1.44 | 0.99 - 2.08 | 0.056 | 0.111 |
| rs16952808 | 54043007 | AA | 32 | 232 | |  |  |  |  |
|  |  | AG/GG | 111 | 871 | | 1.22 | 0.79 - 1.88 | 0.371 | 0.421 |
| rs17226942 | 54043514 | AA | 25 | 218 | |  |  |  |  |
|  |  | AG/GG | 118 | 879 | | 0.89 | 0.55 - 1.42 | 0.614 | 0.64 |
| rs17227068 | 54049205 | AA | 16 | 160 | |  |  |  |  |
|  |  | AG/GG | 127 | 942 | | 0.66 | 0.36 - 1.2 | 0.173 | 0.191 |
| rs7190483 | 54050557 | TT | 39 | 367 | |  |  |  |  |
|  |  | CT/CC | 104 | 731 | | 0.72 | 0.47 - 1.08 | 0.112 | 0.163 |
| rs7196211 | 54050649 | CC | 52 | 431 | |  |  |  |  |
|  |  | CT/TT | 91 | 671 | | 0.88 | 0.6 - 1.3 | 0.529 | 0.596 |
| rs10153154 | 54052885 | TT | 70 | 500 | |  |  |  |  |
|  |  | CT/CC | 73 | 601 | | 1.14 | 0.79 - 1.65 | 0.491 | 0.584 |
| rs7186220 | 54053795 | AA | 68 | 560 | |  |  |  |  |
|  |  | AG/GG | 75 | 543 | | 0.9 | 0.63 - 1.31 | 0.591 | 0.656 |
| rs35236578 | 54054402 | GG | 33 | 239 | |  |  |  |  |
|  |  | AG/AA | 110 | 862 | | 1.21 | 0.79 - 1.86 | 0.375 | 0.412 |
| rs9929796 | 54055791 | GG | 5 | 62 | |  |  |  |  |
|  |  | AG/AA | 138 | 1041 | | 0.64 | 0.25 - 1.65 | 0.358 | 0.376 |
| rs7194243 | 54056159 | TT | 80 | 592 | |  |  |  |  |
|  |  | CT/CC | 63 | 511 | | 1.18 | 0.81 - 1.71 | 0.392 | 0.481 |
| rs7199433 | 54060883 | GG | 53 | 425 | |  |  |  |  |
|  |  | AG/AA | 90 | 678 | | 0.94 | 0.64 - 1.37 | 0.74 | 0.774 |
| kgp16266035 | 54061410 | CC | 76 | 529 | |  |  |  |  |
|  |  | CT/TT | 67 | 572 | | 1.35 | 0.93 - 1.95 | 0.112 | 0.197 |
| rs62034079 | 54063715 | TT | 23 | 117 | |  |  |  |  |
|  |  | CT/CC | 120 | 986 | | 1.75 | 1.05 - 2.94 | **0.033** | **0.044** |
| rs1477093 | 54063769 | GG | 79 | 587 | |  |  |  |  |
|  |  | GT/TT | 64 | 516 | | 1.11 | 0.77 - 1.62 | 0.576 | 0.673 |
| rs12051261 | 54065210 | TT | 51 | 379 | |  |  |  |  |
|  |  | CT/CC | 92 | 723 | | 1.02 | 0.68 - 1.51 | 0.943 | 0.949 |
| rs75288037 | 54066251 | CC | 16 | 102 | |  |  |  |  |
|  |  | CT/TT | 127 | 1000 | | 1.15 | 0.63 - 2.1 | 0.64 | 0.649 |
| rs9922375 | 54071036 | GG | 4 | 41 | |  |  |  |  |
|  |  | AG/AA | 139 | 1054 | | 0.81 | 0.28 - 2.34 | 0.698 | 0.686 |
| rs2689251 | 54073049 | TT | 103 | 774 | |  |  |  |  |
|  |  | CT/CC | 40 | 329 | | 1.07 | 0.71 - 1.61 | 0.763 | 0.85 |
| rs117309839 | 54073103 | TT | 5 | 31 | |  |  |  |  |
|  |  | CT/CC | 138 | 1072 | | 1.36 | 0.51 - 3.59 | 0.541 | 0.501 |
| rs856982 | 54073612 | CC | 102 | 771 | |  |  |  |  |
|  |  | CT/TT | 41 | 332 | | 1.04 | 0.69 - 1.56 | 0.852 | 0.905 |
| rs74019720 | 54075635 | CC | 4 | 22 | |  |  |  |  |
|  |  | CT/TT | 139 | 1081 | | 1.53 | 0.51 - 4.57 | 0.451 | 0.403 |
| rs4784351 | 54075698 | AA | 104 | 766 | |  |  |  |  |
|  |  | AG/GG | 39 | 336 | | 1.16 | 0.76 - 1.75 | 0.494 | 0.587 |
| rs2540781 | 54087859 | AA | 89 | 635 | |  |  |  |  |
|  |  | AC/CC | 54 | 463 | | 1.24 | 0.84 - 1.83 | 0.269 | 0.429 |
| rs8062891 | 54089072 | TT | 27 | 265 | |  |  |  |  |
|  |  | CT/CC | 116 | 838 | | 0.66 | 0.4 - 1.07 | 0.094 | 0.144 |
| rs79497105 | 54089751 | CC | 8 | 84 | |  |  |  |  |
|  |  | CT/TT | 135 | 1019 | | 0.58 | 0.25 - 1.36 | 0.21 | 0.237 |
| rs7194199 | 54090479 | CC | 48 | 290 | |  |  |  |  |
|  |  | CT/TT | 95 | 811 | | 1.49 | 1.01 - 2.2 | **0.045** | 0.066 |
| rs856973 | 54093181 | TT | 18 | 176 | |  |  |  |  |
|  |  | GT/GG | 125 | 927 | | 0.73 | 0.42 - 1.25 | 0.25 | 0.262 |
| rs76661836 | 54094707 | AA | 18 | 102 | |  |  |  |  |
|  |  | AG/GG | 125 | 999 | | 1.44 | 0.82 - 2.52 | 0.201 | 0.214 |
| rs4784353 | 54098929 | AA | 10 | 134 | |  |  |  |  |
|  |  | AG/GG | 133 | 968 | | 0.5 | 0.25 - 1.02 | 0.057 | 0.056 |
| rs2003583 | 54100006 | AA | 79 | 489 | |  |  |  |  |
|  |  | AG/GG | 64 | 614 | | 1.64 | 1.14 - 2.39 | **0.008** | **0.01** |
| rs1076471 | 54100518 | AA | 97 | 807 | |  |  |  |  |
|  |  | AG/GG | 46 | 296 | | 0.75 | 0.51 - 1.12 | 0.166 | 0.415 |
| rs2075202 | 54100655 | GG | 12 | 137 | |  |  |  |  |
|  |  | GT/TT | 131 | 965 | | 0.61 | 0.32 - 1.17 | 0.138 | 0.152 |
| rs12600060 | 54101461 | TT | 38 | 287 | |  |  |  |  |
|  |  | GT/GG | 105 | 816 | | 0.95 | 0.62 - 1.46 | 0.805 | 0.811 |
| rs192233638 | 54102286 | CC | 4 | 34 | |  |  |  |  |
|  |  | AC/AA | 139 | 1069 | | 1.02 | 0.35 - 2.96 | 0.966 | 0.966 |
| rs1420318 | 54102766 | AA | 85 | 650 | |  |  |  |  |
|  |  | AG/GG | 58 | 452 | | 1.05 | 0.72 - 1.54 | 0.808 | 0.858 |
| rs16952987 | 54104500 | AA | 73 | 464 | |  |  |  |  |
|  |  | AG/GG | 70 | 639 | | 1.51 | 1.04 - 2.18 | **0.029** | 0.069 |
| rs78680156 | 54106391 | GG | 7 | 55 | |  |  |  |  |
|  |  | AG/AA | 136 | 1045 | | 1.04 | 0.46 - 2.36 | 0.928 | 0.944 |
| rs76202990 | 54107888 | CC | 7 | 55 | |  |  |  |  |
|  |  | AC/AA | 136 | 1045 | | 1.04 | 0.46 - 2.36 | 0.93 | 0.946 |
| rs77720715 | 54107899 | AA | 5 | 32 | |  |  |  |  |
|  |  | AT/TT | 136 | 1060 | | 1.39 | 0.52 - 3.69 | 0.506 | 0.488 |
| rs2665275 | 54108123 | AA | 55 | 414 | |  |  |  |  |
|  |  | AG/GG | 87 | 684 | | 0.99 | 0.67 - 1.44 | 0.94 | 0.948 |
| rs2665274 | 54108698 | TT | 58 | 448 | |  |  |  |  |
|  |  | GT/GG | 85 | 655 | | 0.95 | 0.65 - 1.39 | 0.79 | 0.826 |
| rs115378978 | 54109953 | GG | 4 | 31 | |  |  |  |  |
|  |  | AG/AA | 139 | 1072 | | 1.03 | 0.35 - 3.01 | 0.954 | 0.968 |
| rs7204690 | 54110951 | TT | 36 | 248 | |  |  |  |  |
|  |  | CT/CC | 107 | 855 | | 1.12 | 0.73 - 1.73 | 0.604 | 0.634 |
| rs62034117 | 54111524 | AA | 65 | 489 | |  |  |  |  |
|  |  | AC/CC | 78 | 613 | | 1.1 | 0.76 - 1.6 | 0.606 | 0.68 |
| rs9931580 | 54113125 | CC | 90 | 631 | |  |  |  |  |
|  |  | CT/TT | 53 | 472 | | 1.33 | 0.91 - 1.95 | 0.147 | 0.268 |
| rs78991515 | 54113502 | GG | 2 | 23 | |  |  |  |  |
|  |  | AG/AA | 141 | 1080 | | 0.72 | 0.17 - 3.14 | 0.663 | 0.666 |
| rs7206012 | 54113564 | CC | 53 | 419 | |  |  |  |  |
|  |  | CT/TT | 90 | 684 | | 0.95 | 0.65 - 1.39 | 0.779 | 0.817 |
| rs7199185 | 54113607 | AA | 55 | 464 | |  |  |  |  |
|  |  | AG/GG | 88 | 638 | | 0.84 | 0.57 - 1.23 | 0.375 | 0.49 |
| rs967515 | 54114217 | TT | 18 | 172 | |  |  |  |  |
|  |  | CT/CC | 125 | 931 | | 0.57 | 0.31 - 1.06 | 0.076 | 0.086 |
| rs708262 | 54114529 | TT | 81 | 573 | |  |  |  |  |
|  |  | GT/GG | 61 | 526 | | 1.07 | 0.74 - 1.55 | 0.716 | 0.768 |
| rs16953002 | 54114824 | AA | 48 | 350 | |  |  |  |  |
|  |  | AG/GG | 95 | 753 | | 1.15 | 0.78 - 1.7 | 0.486 | 0.537 |
| rs708261 | 54114904 | TT | 49 | 410 | |  |  |  |  |
|  |  | CT/CC | 91 | 686 | | 0.85 | 0.57 - 1.26 | 0.421 | 0.495 |
| rs78444140 | 54115181 | TT | 3 | 50 | |  |  |  |  |
|  |  | CT/CC | 140 | 1052 | | 0.5 | 0.15 - 1.63 | 0.249 | 0.253 |
| rs708258 | 54115369 | AA | 92 | 664 | |  |  |  |  |
|  |  | AG/GG | 51 | 438 | | 1.15 | 0.78 - 1.68 | 0.478 | 0.6 |
| rs3928987 | 54117511 | AA | 93 | 709 | |  |  |  |  |
|  |  | AG/GG | 50 | 394 | | 1.16 | 0.78 - 1.71 | 0.472 | 0.605 |
| rs918032 | 54119077 | AA | 109 | 809 | |  |  |  |  |
|  |  | AG/GG | 34 | 294 | | 1.08 | 0.71 - 1.64 | 0.735 | 0.821 |
| rs1008400 | 54119892 | TT | 109 | 814 | |  |  |  |  |
|  |  | CT/CC | 34 | 287 | | 1.05 | 0.69 - 1.6 | 0.83 | 0.896 |
| rs57537537 | 54120059 | AA | 43 | 319 | |  |  |  |  |
|  |  | AG/GG | 100 | 784 | | 1.04 | 0.69 - 1.56 | 0.845 | 0.876 |
| rs10492872 | 54120330 | GG | 38 | 329 | |  |  |  |  |
|  |  | GT/TT | 105 | 773 | | 0.88 | 0.58 - 1.33 | 0.539 | 0.599 |
| rs697769 | 54121747 | AA | 77 | 560 | |  |  |  |  |
|  |  | AG/GG | 65 | 542 | | 1.06 | 0.73 - 1.53 | 0.773 | 0.821 |
| rs16953039 | 54122123 | CC | 16 | 99 | |  |  |  |  |
|  |  | CT/TT | 127 | 1004 | | 1.37 | 0.77 - 2.42 | 0.28 | 0.31 |
| rs11863548 | 54123512 | AA | 64 | 508 | |  |  |  |  |
|  |  | AG/GG | 79 | 595 | | 0.99 | 0.69 - 1.44 | 0.965 | 0.972 |
| rs2665272 | 54126617 | AA | 84 | 608 | |  |  |  |  |
|  |  | AG/GG | 59 | 495 | | 1.12 | 0.77 - 1.63 | 0.544 | 0.639 |
| rs2665271 | 54127879 | AA | 100 | 747 | |  |  |  |  |
|  |  | AG/GG | 42 | 356 | | 1.16 | 0.77 - 1.74 | 0.476 | 0.654 |
| rs17236708 | 54128426 | GG | 62 | 588 | |  |  |  |  |
|  |  | AG/AA | 80 | 512 | | 0.73 | 0.51 - 1.07 | 0.105 | 0.202 |
| rs62034138 | 54129948 | AA | 53 | 372 | |  |  |  |  |
|  |  | AG/GG | 90 | 731 | | 1.08 | 0.73 - 1.58 | 0.711 | 0.746 |
| rs708245 | 54131053 | GG | 52 | 391 | |  |  |  |  |
|  |  | AG/AA | 91 | 712 | | 1.12 | 0.76 - 1.65 | 0.571 | 0.671 |
| rs2540773 | 54131188 | TT | 33 | 293 | |  |  |  |  |
|  |  | CT/CC | 110 | 810 | | 0.81 | 0.52 - 1.25 | 0.343 | 0.428 |
| rs62034139 | 54131939 | TT | 32 | 196 | |  |  |  |  |
|  |  | GT/GG | 111 | 907 | | 1.41 | 0.9 - 2.21 | 0.136 | 0.148 |
| rs74019729 | 54133011 | TT | 12 | 117 | |  |  |  |  |
|  |  | CT/CC | 131 | 986 | | 0.76 | 0.39 - 1.46 | 0.409 | 0.424 |
| rs741300 | 54133650 | CC | 75 | 551 | |  |  |  |  |
|  |  | CT/TT | 68 | 550 | | 1.05 | 0.73 - 1.52 | 0.79 | 0.792 |
| rs74019730 | 54134100 | TT | 28 | 155 | |  |  |  |  |
|  |  | CT/CC | 115 | 948 | | 1.38 | 0.84 - 2.25 | 0.202 | 0.202 |
| rs12445828 | 54134802 | TT | 48 | 389 | |  |  |  |  |
|  |  | CT/CC | 95 | 713 | | 1 | 0.68 - 1.47 | 0.999 | 0.999 |
| rs6499676 | 54137680 | TT | 20 | 112 | |  |  |  |  |
|  |  | CT/CC | 123 | 990 | | 1.59 | 0.93 - 2.72 | 0.089 | 0.086 |
| rs2540776 | 54137862 | AA | 58 | 496 | |  |  |  |  |
|  |  | AG/GG | 85 | 606 | | 0.83 | 0.57 - 1.22 | 0.345 | 0.347 |
| rs28579391 | 54137949 | CC | 28 | 153 | |  |  |  |  |
|  |  | CT/TT | 115 | 950 | | 1.39 | 0.85 - 2.28 | 0.186 | 0.183 |
| rs2689264 | 54137980 | TT | 57 | 501 | |  |  |  |  |
|  |  | CT/CC | 86 | 602 | | 0.79 | 0.55 - 1.16 | 0.232 | 0.234 |
| rs1123817 | 54139497 | AA | 19 | 96 | |  |  |  |  |
|  |  | AG/GG | 124 | 1006 | | 1.74 | 1.01 - 3.03 | **0.047** | **0.044** |
| rs17236863 | 54142090 | TT | 35 | 329 | |  |  |  |  |
|  |  | GT/GG | 108 | 774 | | 0.81 | 0.53 - 1.24 | 0.335 | 0.339 |
| rs77884384 | 54142251 | AA | 7 | 46 | |  |  |  |  |
|  |  | AG/GG | 136 | 1057 | | 1.4 | 0.61 - 3.21 | 0.426 | 0.427 |
| rs77588067 | 54143615 | CC | 25 | 139 | |  |  |  |  |
|  |  | CT/TT | 116 | 962 | | 1.42 | 0.85 - 2.36 | 0.181 | 0.18 |
| rs16953065 | 54143835 | GG | 17 | 88 | |  |  |  |  |
|  |  | AG/AA | 126 | 1012 | | 1.64 | 0.92 - 2.93 | 0.091 | 0.085 |
| rs708278 | 54144925 | AA | 87 | 617 | |  |  |  |  |
|  |  | AG/GG | 56 | 486 | | 1.17 | 0.8 - 1.7 | 0.412 | 0.413 |
| rs58094871 | 54146548 | GG | 15 | 157 | |  |  |  |  |
|  |  | GT/TT | 128 | 946 | | 0.76 | 0.43 - 1.35 | 0.352 | 0.352 |
| rs77984007 | 54147687 | CC | 6 | 79 | |  |  |  |  |
|  |  | AC/AA | 137 | 1024 | | 0.64 | 0.27 - 1.5 | 0.305 | 0.327 |
| rs113662449 | 54148161 | AA | 6 | 78 | |  |  |  |  |
|  |  | AG/GG | 137 | 1025 | | 0.65 | 0.27 - 1.52 | 0.318 | 0.332 |

\* p-value adjustment variables: sex. age. first three principal components and caloric intake; \*\*p = permutation test (50,000 permutations).