***Table S2*** *Single Nucleotide Polymorphism (SNP), Chromosome (Chr), Position (Pos), percentage of genetic variance explained (var), significance (S), associated genes via Ensembl and via NCBI with its proximity (Inside gene?) for 1% top SNPs (n=410) across environmental gradient.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Low tick infestation** | | | | | | | | | | |
| **SNP** | **Chr** | **Pos.** | **var** | **S** | **Gene via Ensembl** | **Gene via NCBI** | | **Inside gene?\*** | | |
| Hapmap38892-BTA-36614 | 1 | 5496635 | 1.06E-05 | No | *-* | *-* | | - | | |
| BTB-01342789 | 1 | 18508517 | 1.08E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-100434 | 1 | 34864497 | 1.06E-05 | No | *-* | *-* | | - | | |
| DPI-2 | 1 | 35604177 | 1.14E-05 | No | *-* | *-* | | - | | |
| Hapmap49368-BTA-89726 | 1 | 43735256 | 1.07E-05 | No | *-* | *-* | | - | | |
| BTA-21519-no-rs | 1 | 45214460 | 9.57E-06 | No | *-* | *-* | | - | | |
| Hapmap60140-ss46526251 | 1 | 46370195 | 1.60E-05 | No | *-* | *-* | | - | | |
| BTA-31615-no-rs | 1 | 59337004 | 9.79E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-60021 | 1 | 97300654 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap55381-rs29025399 | 1 | 114137258 | 1.35E-05 | No | *-* | *-* | | - | | |
| Hapmap46705-BTA-49345 | 1 | 118581426 | 9.54E-06 | No | *-* | *-* | | - | | |
| BTB-00054647 | 1 | 123372013 | 1.12E-05 | No | *-* | *-* | | - | | |
| BTA-97832-no-rs | 1 | 125283942 | 2.14E-05 | Yes | *-* | *-* | | - | | |
| ARS-BFGL-NGS-1834 | 1 | 132696696 | 1.07E-05 | No | *-* | *-* | | - | | |
| Hapmap20495-rs29024564 | 1 | 138692649 | 1.14E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-40732 | 1 | 145804209 | 9.91E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-112213 | 1 | 151665620 | 9.68E-06 | No | *-* | *-* | | - | | |
| Hapmap59327-rs29016284 | 1 | 156598837 | 1.14E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36714 | 1 | 156643814 | 8.78E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36332 | 1 | 157124942 | 1.39E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-5053 | 1 | 157419451 | 9.69E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-15763 | 2 | 3793543 | 9.73E-06 | No | *-* | *-* | | - | | |
| BTB-01977132 | 2 | 7520210 | 1.53E-05 | No | *-* | *-* | | - | | |
| BTB-01853142 | 2 | 16560591 | 1.03E-05 | No | *-* | *-* | | - | | |
| BTB-01782721 | 2 | 21389327 | 1.89E-05 | Yes | *-* | *HOXD1* | | Marker is > 5000 bp <=25000 bp Before Feature | | |
| BTB-01693574 | 2 | 23061078 | 9.10E-06 | No | *-* | *-* | | - | | |
| BTB-00085877 | 2 | 23628756 | 9.11E-06 | No | *-* | *-* | | - | | |
| Hapmap59917-rs29012418 | 2 | 24519348 | 1.59E-05 | No | *-* | *-* | | - | | |
| BTA-25512-no-rs | 2 | 26140855 | 9.30E-06 | No | *-* | *-* | | - | | |
| BTB-00089278 | 2 | 26942975 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap57743-rs29026473 | 2 | 28376835 | 1.04E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-30262 | 2 | 39246711 | 1.08E-05 | No | *-* | *-* | | - | | |
| Hapmap31810-BTA-155140 | 2 | 53330902 | 1.09E-05 | No | *-* | *-* | | - | | |
| BTA-46608-no-rs | 2 | 53779266 | 1.04E-05 | No | *-* | *-* | | - | | |
| Hapmap43801-BTA-18254 | 2 | 54130292 | 1.46E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-15250 | 2 | 89845085 | 8.71E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-97871 | 2 | 98666598 | 9.07E-06 | No | *-* | *-* | | - | | |
| BTB-01889889 | 2 | 104905603 | 1.69E-05 | No | *-* | *-* | | - | | |
| Hapmap46209-BTA-28196 | 2 | 112515240 | 9.85E-06 | No | *-* | *-* | | - | | |
| Hapmap40620-BTA-98529 | 2 | 114545992 | 1.30E-05 | No | *-* | *-* | | - | | |
| Hapmap46266-BTA-98535 | 2 | 114639084 | 9.55E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-107909 | 2 | 116934708 | 1.82E-05 | Yes | *CCL20* | *-* | | - | | |
| ARS-BFGL-NGS-5980 | 2 | 134759459 | 1.59E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-67260 | 2 | 135190642 | 9.59E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-118957 | 2 | 136305920 | 9.61E-06 | No | *-* | *-* | | - | | |
| Hapmap42163-BTA-27347 | 3 | 259213 | 1.09E-05 | No | *-* | *-* | | - | | |
| BTA-21472-no-rs | 3 | 5886143 | 8.73E-06 | No | *-* | *-* | | - | | |
| Hapmap32868-BTA-161473 | 3 | 7446399 | 1.32E-05 | No | *-* | *-* | | - | | |
| BTA-68603-no-rs | 3 | 86886379 | 1.41E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-25455 | 3 | 105536719 | 1.10E-05 | No | *-* | *-* | | - | | |
| Hapmap58504-rs29017745 | 3 | 115504268 | 1.14E-05 | No | *-* | *-* | | - | | |
| Hapmap52849-rs29021928 | 3 | 120622998 | 1.11E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-104799 | 3 | 120772981 | 8.73E-06 | No | *-* | *-* | | - | | |
| Hapmap40886-BTA-111629 | 4 | 2132412 | 8.92E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-104060 | 4 | 4593967 | 1.27E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-57716 | 4 | 4728423 | 8.77E-06 | No | *-* | *-* | | - | | |
| Hapmap29841-BTA-150778 | 4 | 7473284 | 9.06E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-40975 | 4 | 16748166 | 9.17E-06 | No | *-* | *-* | | - | | |
| Hapmap50489-BTA-85396 | 4 | 17701677 | 1.01E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-86175 | 4 | 18539967 | 1.08E-05 | No | *-* | *-* | | - | | |
| Hapmap33483-BTA-142021 | 4 | 37341832 | 1.07E-05 | No | *-* | *-* | | - | | |
| Hapmap47167-BTA-107276 | 4 | 43292197 | 1.12E-05 | No | *-* | *-* | | - | | |
| Hapmap36353-SCAFFOLD29708\_3468 | 4 | 64923141 | 1.07E-05 | No | *-* | *-* | | - | | |
| Hapmap43665-BTA-72047 | 4 | 106383456 | 8.75E-06 | No | *-* | *-* | | - | | |
| Hapmap24643-BTA-123363 | 4 | 112529847 | 8.84E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-114119 | 4 | 119268300 | 1.06E-05 | No | *-* | *-* | | - | | |
| BTB-01089304 | 5 | 1279065 | 1.02E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-57915 | 5 | 7870014 | 9.95E-06 | No | *-* | *-* | | - | | |
| Hapmap54948-rs29009927 | 5 | 10482135 | 1.16E-05 | No | *-* | *-* | | - | | |
| Hapmap55297-rs29017245 | 5 | 11158112 | 1.04E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-111940 | 5 | 13142317 | 9.11E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-20187 | 5 | 16024346 | 9.99E-06 | No | *-* | *-* | | - | | |
| Hapmap39213-BTA-98187 | 5 | 33953799 | 9.00E-06 | No | *-* | *-* | | - | | |
| BTA-73418-no-rs | 5 | 38351858 | 8.75E-06 | No | *-* | *-* | | - | | |
| BTA-26132-no-rs | 5 | 41799777 | 2.27E-05 | Yes | *-* | *-* | | - | | |
| BTA-88188-no-rs | 5 | 55193544 | 9.16E-06 | No | *-* | *-* | | - | | |
| Hapmap51303-BTA-74377 | 5 | 83790390 | 1.02E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-39308 | 5 | 85288739 | 9.45E-06 | No | *-* | *-* | | - | | |
| Hapmap24213-BTA-161079 | 5 | 85817422 | 1.09E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-111323 | 5 | 100452647 | 1.38E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-102312 | 5 | 105337527 | 1.02E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-38440 | 5 | 121062420 | 1.08E-05 | No | *-* | *-* | | - | | |
| Hapmap59720-rs29025265 | 6 | 2642053 | 1.76E-05 | No | *-* | *-* | | - | | |
| BTB-01939106 | 6 | 10542071 | 9.73E-06 | No | *-* | *-* | | - | | |
| BTB-01322000 | 6 | 10659718 | 1.18E-05 | No | *-* | *-* | | - | | |
| Hapmap44566-BTA-76618 | 6 | 11998522 | 9.36E-06 | No | *-* | *-* | | - | | |
| Hapmap26355-BTA-123034 | 6 | 12602914 | 1.10E-05 | No | *-* | *-* | | - | | |
| BTB-02031673 | 6 | 19576414 | 8.77E-06 | No | *-* | *-* | | - | | |
| Hapmap45671-BTA-122516 | 6 | 21796191 | 1.27E-05 | No | *-* | *-* | | - | | |
| BTB-00247050 | 6 | 23778095 | 9.44E-06 | No | *-* | *-* | | - | | |
| Hapmap27887-BTA-156628 | 6 | 35456685 | 9.47E-06 | No | *-* | *-* | | - | | |
| Hapmap31283-BTC-039096 | 6 | 45052429 | 9.83E-06 | No | *-* | *-* | | - | | |
| Hapmap32456-BTC-038385 | 6 | 45216251 | 1.79E-05 | Yes | *-* | *PPARGC1A* | | Nearest feature is > 25000 bp before marker | | |
| ARS-BFGL-NGS-97136 | 6 | 45909053 | 8.86E-06 | No | *-* | *-* | | - | | |
| Hapmap41788-BTA-18387 | 6 | 57256166 | 9.30E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-116332 | 6 | 63039838 | 1.17E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-42175 | 6 | 79544981 | 9.17E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-54737 | 6 | 107086553 | 1.45E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-112814 | 6 | 108041362 | 8.79E-06 | No | *-* | *-* | | - | | |
| BTA-78066-no-rs | 6 | 116443441 | 1.00E-05 | No | *-* | *-* | | - | | |
| BTB-01500061 | 7 | 2174260 | 9.81E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115333 | 7 | 3248028 | 1.02E-05 | No | *-* | *-* | | - | | |
| BTB-00291093 | 7 | 4501997 | 9.58E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-80477 | 7 | 16111861 | 9.07E-06 | No | *-* | *-* | | - | | |
| BTB-00264202 | 7 | 26984291 | 1.18E-05 | No | *-* | *-* | | - | | |
| BTB-01216761 | 7 | 27213604 | 9.56E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-110438 | 7 | 27258897 | 8.97E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-66965 | 7 | 29816068 | 1.46E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-1759 | 7 | 29901239 | 9.90E-06 | No | *-* | *-* | | - | | |
| UA-IFASA-8863 | 7 | 39944515 | 8.94E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-52872 | 7 | 48709232 | 1.03E-05 | No | *-* | *-* | | - | | |
| BTA-95797-no-rs | 7 | 49333804 | 8.86E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-1457 | 7 | 49794088 | 1.17E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-23933 | 7 | 51574295 | 1.27E-05 | No | *-* | *-* | | - | | |
| BTB-01641665 | 7 | 57575330 | 1.49E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-110279 | 7 | 80483871 | 1.12E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-112487 | 7 | 84971705 | 8.98E-06 | No | *-* | *-* | | - | | |
| Hapmap49872-BTA-115580 | 7 | 89967934 | 1.13E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-32449 | 7 | 94840801 | 1.11E-05 | No | *-* | *-* | | - | | |
| Hapmap55378-rs29025271 | 7 | 96192503 | 2.05E-05 | Yes | *-* | *-* | | - | | |
| Hapmap31054-BTA-112283 | 7 | 102777090 | 1.36E-05 | No | *-* | *-* | | - | | |
| BTB-00955523 | 7 | 105621232 | 1.30E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-12657 | 7 | 108817785 | 1.26E-05 | No | *-* | *-* | | - | | |
| Hapmap57373-rs29019418 | 7 | 108861104 | 1.91E-05 | Yes | *-* | *-* | | - | | |
| ARS-BFGL-NGS-10647 | 8 | 761904 | 8.70E-06 | No | *-* | *-* | | - | | |
| ARS-USMARC-Parent-DQ916058-rs29016146 | 8 | 1554706 | 8.92E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-111379 | 8 | 2453388 | 1.37E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-109695 | 8 | 43003529 | 8.89E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-97020 | 8 | 62544260 | 1.20E-05 | No | *-* | *-* | | - | | |
| BTA-81701-no-rs | 8 | 64266000 | 9.26E-06 | No | *-* | *-* | | - | | |
| BTA-19348-no-rs | 8 | 65338177 | 1.55E-05 | No | *-* | *-* | | - | | |
| Hapmap25871-BTA-152798 | 8 | 68894735 | 1.38E-05 | No | *-* | *-* | | - | | |
| Hapmap50167-BTA-95319 | 8 | 79187322 | 1.07E-05 | No | *-* | *-* | | - | | |
| BTB-00360817 | 8 | 79497558 | 9.27E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-107795 | 8 | 102179525 | 1.08E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-40447 | 8 | 103188091 | 1.11E-05 | No | *-* | *-* | | - | | |
| ARS-USMARC-Parent-DQ674265-rs29011266 | 8 | 106174871 | 9.47E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-33591 | 8 | 110815784 | 9.86E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-102706 | 9 | 5747133 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap57341-rs29010513 | 9 | 15767136 | 2.64E-05 | Yes | *MYO6* | *-* | | - | | |
| ARS-BFGL-NGS-101978 | 9 | 18123535 | 1.19E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-53845 | 9 | 32454628 | 9.01E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-63180 | 9 | 38575112 | 1.79E-05 | Yes | *-* | *-* | | - | | |
| ARS-BFGL-NGS-72216 | 9 | 40979935 | 9.25E-06 | No | *-* | *-* | | - | | |
| Hapmap44189-BTA-109443 | 9 | 44815699 | 1.06E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-75682 | 9 | 71469050 | 1.18E-05 | No | *-* | *-* | | - | | |
| BTA-84308-no-rs | 9 | 76527168 | 9.92E-06 | No | *-* | *-* | | - | | |
| BTB-00402295 | 9 | 87254861 | 1.10E-05 | No | *-* | *-* | | - | | |
| BTA-85048-no-rs | 9 | 99271707 | 1.08E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-26554 | 9 | 102826828 | 9.95E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-32255 | 9 | 102851852 | 9.12E-06 | No | *-* | *-* | | - | | |
| Hapmap38884-BTA-122472 | 9 | 105074182 | 1.05E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-7255 | 10 | 13606664 | 9.71E-06 | No | *-* | *-* | | - | | |
| BTB-01643848 | 10 | 26589153 | 1.19E-05 | No | *-* | *-* | | - | | |
| BTB-01288875 | 10 | 39278374 | 1.59E-05 | No | *-* | *-* | | - | | |
| BTA-122483-no-rs | 10 | 40856335 | 1.68E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-117876 | 10 | 48502416 | 1.50E-05 | No | *-* | *-* | | - | | |
| Hapmap50263-BTA-122214 | 10 | 68836485 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap46726-BTA-77316 | 10 | 86511068 | 1.24E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-7857 | 10 | 86774733 | 1.04E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-118199 | 10 | 91086389 | 1.12E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-4082 | 10 | 100366108 | 9.08E-06 | No | *-* | *-* | | - | | |
| Hapmap30845-BTA-148497 | 11 | 4655636 | 9.74E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-25743 | 11 | 5389716 | 1.34E-05 | No | *-* | *-* | | - | | |
| Hapmap36226-SCAFFOLD212128\_13243 | 11 | 6343983 | 9.90E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-37149 | 11 | 12717282 | 1.03E-05 | No | *-* | *-* | | - | | |
| BTB-00460506 | 11 | 12947549 | 1.03E-05 | No | *-* | *-* | | - | | |
| BTB-00462448 | 11 | 15814741 | 1.33E-05 | No | *-* | *-* | | - | | |
| BTB-01764269 | 11 | 17026673 | 9.06E-06 | No | *-* | *-* | | - | | |
| BTB-01232906 | 11 | 17445658 | 1.15E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-26022 | 11 | 21652185 | 9.20E-06 | No | *-* | *-* | | - | | |
| BTB-00466557 | 11 | 23176087 | 1.68E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-66241 | 11 | 29495322 | 9.15E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-13009 | 11 | 42480088 | 1.01E-05 | No | *-* | *-* | | - | | |
| BTB-00475139 | 11 | 60203243 | 1.49E-05 | No | *-* | *-* | | - | | |
| Hapmap35713-SCAFFOLD296111\_2548 | 11 | 68592752 | 1.46E-05 | No | *-* | *-* | | - | | |
| Hapmap40038-BTA-102170 | 11 | 70879221 | 9.74E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-61477 | 11 | 78001260 | 1.40E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-3456 | 11 | 78377128 | 9.06E-06 | No | *-* | *-* | | - | | |
| BTA-108440-no-rs | 11 | 84083499 | 9.28E-06 | No | *-* | *-* | | - | | |
| BTA-61777-no-rs | 11 | 85192381 | 1.08E-05 | No | *-* | *-* | | - | | |
| Hapmap53648-rs29021240 | 11 | 86569656 | 9.09E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-116569 | 11 | 86751976 | 1.76E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-45263 | 11 | 88621486 | 1.28E-05 | No | *-* | *-* | | - | | |
| BTA-118582-no-rs | 11 | 91501099 | 1.07E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36373 | 11 | 97092757 | 1.01E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-23749 | 11 | 104549765 | 9.13E-06 | No | *-* | *-* | | - | | |
| BTA-69403-no-rs | 11 | 105371400 | 9.03E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-25386 | 11 | 107153765 | 1.16E-05 | No | *-* | *-* | | - | | |
| Hapmap49942-BTA-27508 | 12 | 2682385 | 9.33E-06 | No | *-* | *-* | | - | | |
| BTA-53873-no-rs | 12 | 9754433 | 1.62E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115282 | 12 | 21157380 | 1.37E-05 | No | *-* | *-* | | - | | |
| Hapmap39051-BTA-117620 | 12 | 24803254 | 1.12E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-12462 | 12 | 24824923 | 1.20E-05 | No | *-* | *-* | | - | | |
| BTA-117645-no-rs | 12 | 25216679 | 1.02E-05 | No | *-* | *-* | | - | | |
| BTA-18613-no-rs | 12 | 30751569 | 8.94E-06 | No | *-* | *-* | | - | | |
| Hapmap43513-BTA-21673 | 12 | 45135480 | 9.43E-06 | No | *-* | *-* | | - | | |
| Hapmap43279-BTA-50109 | 12 | 48162793 | 9.51E-06 | No | *-* | *-* | | - | | |
| Hapmap41810-BTA-26946 | 12 | 55410460 | 1.24E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-10953 | 12 | 65727810 | 8.77E-06 | No | *-* | *-* | | - | | |
| Hapmap52431-ss46526792 | 13 | 533391 | 9.91E-06 | No | *-* | *-* | | - | | |
| Hapmap26161-BTA-151057 | 13 | 739720 | 1.08E-05 | No | *-* | *-* | | - | | |
| Hapmap27855-BTA-123415 | 13 | 806792 | 1.10E-05 | No | *-* | *-* | | - | | |
| Hapmap60195-rs29018211 | 13 | 2939325 | 1.15E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-119032 | 13 | 9623038 | 9.66E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-41111 | 13 | 10111504 | 1.03E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-112023 | 13 | 19533614 | 9.33E-06 | No | *-* | *-* | | - | | |
| Hapmap31057-BTA-115291 | 13 | 20457510 | 8.80E-06 | No | *-* | *-* | | - | | |
| BTA-112161-no-rs | 13 | 22904772 | 1.68E-05 | No | *-* | *-* | | - | | |
| Hapmap39219-BTA-31890 | 13 | 23529663 | 1.51E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-111594 | 13 | 26496734 | 1.17E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-11922 | 13 | 28859669 | 1.13E-05 | No | *-* | *-* | | - | | |
| BTA-32267-no-rs | 13 | 31851749 | 1.33E-05 | No | *-* | *-* | | - | | |
| BTB-01342926 | 13 | 35309000 | 1.55E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36574 | 13 | 40031719 | 1.18E-05 | No | *-* | *-* | | - | | |
| BTA-32982-no-rs | 13 | 56402912 | 9.43E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115614 | 13 | 57907608 | 9.11E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-102293 | 13 | 66179152 | 1.06E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-5210 | 13 | 67663982 | 9.35E-06 | No | *-* | *-* | | - | | |
| BPI-3 | 13 | 67836459 | 9.46E-06 | No | *-* | *-* | | - | | |
| Hapmap55254-rs29014939 | 13 | 69042143 | 1.33E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-9680 | 13 | 79546003 | 1.19E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36793 | 13 | 80239131 | 1.65E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-48534 | 13 | 81379580 | 9.98E-06 | No | *-* | *-* | | - | | |
| BTA-34052-no-rs | 13 | 81417910 | 1.39E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-56163 | 13 | 83202886 | 1.45E-05 | No | *-* | *-* | | - | | |
| Hapmap33459-BTC-069647 | 14 | 6486431 | 2.14E-05 | Yes | *-* | *-* | | - | | |
| Hapmap39020-BTA-35975 | 14 | 12901291 | 1.49E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-116559 | 14 | 28201349 | 9.16E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-113927 | 14 | 51396430 | 2.17E-05 | Yes | *-* | *-* | | - | | |
| UA-IFASA-7236 | 14 | 69288756 | 1.09E-05 | No | *-* | *-* | | - | | |
| Hapmap54796-rs29014519 | 14 | 73941140 | 1.02E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-6257 | 14 | 83988724 | 1.05E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-108891 | 15 | 12788038 | 9.94E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-10629 | 15 | 15973136 | 1.14E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-113417 | 15 | 21732355 | 1.82E-05 | Yes | *-* | *-* | | - | | |
| ARS-BFGL-NGS-20519 | 15 | 22620312 | 1.11E-05 | No | *-* | *-* | | - | | |
| Hapmap57339-rs29010375 | 15 | 24632628 | 9.63E-06 | No | *-* | *-* | | - | | |
| BTB-01926509 | 15 | 45363793 | 8.84E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-19286 | 15 | 54803685 | 1.37E-05 | No | *-* | *-* | | - | | |
| BTA-96695-no-rs | 15 | 60194965 | 9.86E-06 | No | *-* | *-* | | - | | |
| BTB-00566504 | 15 | 60579627 | 1.20E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-19590 | 15 | 68444035 | 9.86E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-66830 | 15 | 68698326 | 1.03E-05 | No | *-* | *-* | | - | | |
| Hapmap40672-BTA-121035 | 15 | 73432445 | 8.72E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-119752 | 15 | 76379840 | 8.75E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-113995 | 15 | 78401390 | 9.75E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-86653 | 16 | 12483223 | 1.49E-05 | No | *-* | *-* | | - | | |
| BTA-114646-no-rs | 16 | 14500474 | 1.16E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-60500 | 16 | 20099741 | 9.65E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-35246 | 16 | 20731806 | 1.24E-05 | No | *-* | *-* | | - | | |
| BTB-01475457 | 16 | 21326517 | 1.01E-05 | No | *-* | *-* | | - | | |
| BTB-00629775 | 16 | 21708659 | 1.39E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-55380 | 16 | 21821449 | 9.50E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-13508 | 16 | 22406467 | 9.23E-06 | No | *-* | *-* | | - | | |
| BTA-38162-no-rs | 16 | 24379313 | 9.33E-06 | No | *-* | *-* | | - | | |
| Hapmap47933-BTA-38363 | 16 | 29812601 | 1.85E-05 | Yes | *H3F3B, H3F3A, TMEM63A, LIN9, SDE2, EPHX1, MIXL1, ACBD3* | *H3F3B* | | Marker is > 5000 bp <=25000 bp Before Feature | | |
| ARS-BFGL-NGS-114924 | 16 | 46093561 | 1.16E-05 | No | *-* | *-* | | - | | |
| BTB-01584700 | 16 | 79161508 | 1.49E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-52551 | 16 | 80859590 | 1.56E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-94455 | 17 | 8800578 | 1.19E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-43717 | 17 | 9392845 | 1.28E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-40131 | 17 | 9699044 | 9.63E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-51247 | 17 | 10380674 | 1.36E-05 | No | *-* | *-* | | - | | |
| Hapmap52011-BTA-40675 | 17 | 22972193 | 9.66E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-18831 | 17 | 26010339 | 1.17E-05 | No | *-* | *-* | | - | | |
| BTA-46662-no-rs | 17 | 26712567 | 9.49E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-107312 | 17 | 53797095 | 1.21E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-35987 | 17 | 60584522 | 9.15E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-52835 | 17 | 68545781 | 9.64E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-109830 | 17 | 69312539 | 1.01E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-97892 | 18 | 1363868 | 1.03E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-4860 | 18 | 6523067 | 9.38E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-112554 | 18 | 7014208 | 1.56E-05 | No | *-* | *-* | | - | | |
| Hapmap47288-BTA-42323 | 18 | 10852558 | 1.56E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-23457 | 18 | 16515915 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap52207-rs29021316 | 18 | 27144071 | 8.83E-06 | No | *-* | *-* | | - | | |
| Hapmap53786-rs29014011 | 18 | 29650288 | 1.03E-05 | No | *-* | *-* | | - | | |
| BTB-00712894 | 18 | 40041803 | 9.11E-06 | No | *-* | *-* | | - | | |
| BTB-01588251 | 18 | 45474850 | 1.14E-05 | No | *-* | *-* | | - | | |
| ARS-USMARC-Parent-AY863214-rs17871744 | 18 | 46647177 | 1.85E-05 | Yes | *PSENEN, UPK1A, TYROBP, PRODH2, HAUS5, APLP1, ETV2, NPHS1, LIN37, HSPB6, RBM42, NFKBID, IGFLR1, LRFN3, HCST, ZBTB32, KMT2B, ARHGAP33* | *LIN37* | | Marker is <= 2500 bp Before Feature | | |
| ARS-BFGL-NGS-14927 | 18 | 46677643 | 1.33E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-35025 | 18 | 48038041 | 1.16E-05 | No | *-* | *-* | | - | | |
| BTA-118931-no-rs | 18 | 52024379 | 1.84E-05 | Yes | *BSP1, BSP3, BSP5, PLAUR* | *-* | | - | | |
| ARS-BFGL-NGS-35636 | 18 | 62467006 | 1.31E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-58016 | 18 | 65604707 | 1.12E-05 | No | *-* | *-* | | - | | |
| Hapmap32837-BTA-149843 | 19 | 6106937 | 1.37E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-6719 | 19 | 8597725 | 8.88E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-102654 | 19 | 11401381 | 1.02E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-5958 | 19 | 13457401 | 9.97E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-114597 | 19 | 56533680 | 1.27E-05 | No | *-* | *-* | | - | | |
| Hapmap30525-BTA-133378 | 19 | 58642115 | 1.09E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-14378 | 20 | 29322034 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap51988-BTA-92052 | 20 | 43489592 | 1.15E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-2314 | 20 | 59514189 | 8.88E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-59613 | 21 | 13961617 | 1.37E-05 | No | *-* | *-* | | - | | |
| Hapmap30803-BTA-135661 | 21 | 14304199 | 9.72E-06 | No | *-* | *-* | | - | | |
| Hapmap39722-BTA-119704 | 21 | 14800548 | 1.02E-05 | No | *-* | *-* | | - | | |
| Hapmap38505-BTA-51760 | 21 | 19193100 | 8.72E-06 | No | *-* | *-* | | - | | |
| Hapmap47979-BTA-51767 | 21 | 19267278 | 9.67E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-63590 | 21 | 19953173 | 8.79E-06 | No | *-* | *-* | | - | | |
| Hapmap60593-rs29025761 | 21 | 27328130 | 1.69E-05 | No | *-* | *-* | | - | | |
| BTA-68607-no-rs | 21 | 32880526 | 1.25E-05 | No | *-* | *-* | | - | | |
| Hapmap53974-rs29024107 | 21 | 35522405 | 1.12E-05 | No | *-* | *-* | | - | | |
| Hapmap58716-rs29021182 | 21 | 36554417 | 1.24E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-107391 | 21 | 46018333 | 8.94E-06 | No | *-* | *-* | | - | | |
| BTB-00822762 | 21 | 49165337 | 1.34E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115324 | 21 | 52385916 | 1.10E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-118961 | 21 | 62089501 | 1.21E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-12794 | 21 | 63447746 | 8.86E-06 | No | *-* | *-* | | - | | |
| BTA-24891-no-rs | 21 | 63955841 | 1.17E-05 | No | *-* | *-* | | - | | |
| Hapmap52873-ss46526026 | 21 | 66064177 | 1.79E-05 | Yes | *SETD3, CCDC85C, BCL11B* | *SETD3* | | Yes | | |
| ARS-BFGL-NGS-30499 | 22 | 3046992 | 1.55E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-100520 | 22 | 5287823 | 9.25E-06 | No | *-* | *-* | | - | | |
| Hapmap44095-BTA-55125 | 22 | 8626195 | 9.56E-06 | No | *-* | *-* | | - | | |
| BTB-01887959 | 22 | 9222993 | 9.36E-06 | No | *-* | *-* | | - | | |
| BTB-00839323 | 22 | 19168846 | 1.09E-05 | No | *-* | *-* | | - | | |
| Hapmap40022-BTA-70534 | 22 | 19807636 | 1.13E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-6532 | 22 | 21770149 | 8.75E-06 | No | *-* | *-* | | - | | |
| Hapmap55470-rs29017069 | 22 | 23575419 | 1.21E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-107702 | 22 | 28292573 | 1.06E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-113670 | 22 | 29803741 | 1.22E-05 | No | *-* | *-* | | - | | |
| BTA-106477-no-rs | 22 | 42111462 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap30494-BTA-122955 | 22 | 43862404 | 8.80E-06 | No | *-* | *-* | | - | | |
| Hapmap61036-rs29016268 | 22 | 44795825 | 1.04E-05 | No | *-* | *-* | | - | | |
| Hapmap60563-ss46526220 | 22 | 54256311 | 8.79E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-55311 | 22 | 54583973 | 1.08E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-103160 | 23 | 2247046 | 9.01E-06 | No | *-* | *-* | | - | | |
| BTA-98024-no-rs | 23 | 9368834 | 9.05E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-36754 | 23 | 11589692 | 9.54E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-111735 | 23 | 12997137 | 1.64E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-30068 | 23 | 13691444 | 9.59E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-25325 | 23 | 14981935 | 1.18E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-25108 | 23 | 21315975 | 1.08E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-16284 | 23 | 24667121 | 9.57E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-117031 | 23 | 25222914 | 1.34E-05 | No | *BOLA-DQA2, BOLA-DQA5, BOLA-DQB* | *-* | | - | | |
| ARS-BFGL-NGS-23431 | 23 | 35106094 | 1.28E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-104089 | 23 | 35182683 | 1.35E-05 | No | *-* | *-* | | - | | |
| Hapmap57401-rs29021597 | 23 | 39649309 | 1.14E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-77290 | 23 | 41496176 | 1.27E-05 | No | *-* | *-* | | - | | |
| Hapmap35535-SCAFFOLD86180\_8791 | 23 | 41700829 | 8.80E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-5088 | 23 | 42329603 | 1.08E-05 | No | *-* | *-* | | - | | |
| BTA-114884-no-rs | 23 | 48856081 | 8.99E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-4455 | 23 | 52091670 | 1.41E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-114852 | 24 | 2498535 | 9.95E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-28667 | 24 | 3417911 | 1.01E-05 | No | *-* | *-* | | - | | |
| BTA-115451-no-rs | 24 | 8540940 | 1.09E-05 | No | *-* | *-* | | - | | |
| BTA-57612-no-rs | 24 | 22705989 | 1.14E-05 | No | *-* | *-* | | - | | |
| Hapmap38596-BTA-41284 | 24 | 24220391 | 9.68E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-27451 | 24 | 26435436 | 1.21E-05 | No | *-* | *-* | | - | | |
| BTA-112410-no-rs | 24 | 27475390 | 1.35E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-103621 | 24 | 27808368 | 9.38E-06 | No | *-* | *-* | | - | | |
| UA-IFASA-4800 | 24 | 31524371 | 1.05E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-14224 | 24 | 32032423 | 1.00E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-4581 | 24 | 39320770 | 9.33E-06 | No | *-* | *-* | | - | | |
| Hapmap57978-rs29024944 | 24 | 45239241 | 1.04E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-13314 | 24 | 45775076 | 1.09E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-91062 | 24 | 46930659 | 1.06E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-24167 | 24 | 48784991 | 1.45E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-13986 | 24 | 50027354 | 9.91E-06 | No | *-* | *-* | | - | | |
| BTA-58638-no-rs | 24 | 53790841 | 1.25E-05 | No | *-* | *-* | | - | | |
| BTB-00891813 | 24 | 56487933 | 1.05E-05 | No | *-* | *-* | | - | | |
| BTB-00891865 | 24 | 56535985 | 9.40E-06 | No | *-* | *-* | | - | | |
| Hapmap36042-SCAFFOLD31537\_3371 | 25 | 3055650 | 1.05E-05 | No | *-* | *-* | | - | | |
| Hapmap31994-BTC-065943 | 25 | 5385729 | 8.98E-06 | No | *-* | *-* | | - | | |
| Hapmap32974-BTC-065967 | 25 | 5408004 | 8.89E-06 | No | *-* | *-* | | - | | |
| Hapmap32191-BTC-019394 | 25 | 6103549 | 8.92E-06 | No | *-* | *-* | | - | | |
| BTA-60652-no-rs | 25 | 8272291 | 1.10E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-108997 | 25 | 26736589 | 1.15E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-33705 | 25 | 28413439 | 9.67E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-101637 | 25 | 28906785 | 1.30E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-6752 | 25 | 38560656 | 1.15E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-BAC-47313 | 25 | 41213862 | 1.02E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-65615 | 25 | 41309842 | 9.56E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-73895 | 26 | 6948695 | 1.83E-05 | Yes | *PRKG1, DKK1* | *PRKG1* | | Yes | | |
| Hapmap38330-BTA-61119 | 26 | 30903998 | 9.44E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-7574 | 26 | 37441511 | 1.15E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-118736 | 26 | 40959791 | 1.33E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-10498 | 26 | 41341146 | 1.32E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115563 | 26 | 43709706 | 8.94E-06 | No | *-* | *-* | | - | | |
| BTA-121503-no-rs | 26 | 47029338 | 1.18E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-6343 | 26 | 47837750 | 9.53E-06 | No | *-* | *-* | | - | | |
| Hapmap29879-BTA-92303 | 27 | 1970333 | 9.56E-06 | No | *-* | *-* | | - | | |
| BTB-00964171 | 27 | 24945902 | 9.30E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-40430 | 27 | 29934809 | 1.16E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-35188 | 27 | 36285734 | 8.82E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-26925 | 27 | 42927083 | 9.95E-06 | No | *-* | *-* | | - | | |
| Hapmap59081-rs29017657 | 27 | 43730070 | 1.17E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-2154 | 28 | 3976460 | 1.15E-05 | No | *-* | *-* | | - | | |
| Hapmap50751-BTA-64830 | 28 | 13270960 | 1.95E-05 | Yes | *ZNF248, ZNF25* | *-* | | - | | |
| BTA-64815-no-rs | 28 | 13659540 | 1.26E-05 | No | *-* | *-* | | - | | |
| Hapmap42306-BTA-73982 | 28 | 16753454 | 1.09E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-351 | 28 | 23764335 | 8.83E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-6902 | 28 | 34929321 | 9.30E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-23193 | 28 | 38004515 | 9.49E-06 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-15178 | 28 | 41426446 | 1.09E-05 | No | *-* | *-* | | - | | |
| BTB-00992523 | 28 | 42219956 | 1.66E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-78642 | 28 | 43815607 | 9.36E-06 | No | *-* | *-* | | - | | |
| Hapmap58534-rs29018685 | 29 | 724198 | 1.17E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-3274 | 29 | 1175476 | 1.06E-05 | No | *-* | *-* | | - | | |
| Hapmap43969-BTA-90971 | 29 | 3680914 | 8.82E-06 | No | *-* | *-* | | - | | |
| UA-IFASA-9243 | 29 | 3870348 | 1.30E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-3437 | 29 | 9454029 | 9.89E-06 | No | *-* | *-* | | - | | |
| BTA-105944-no-rs | 29 | 14871102 | 9.72E-06 | No | *-* | *-* | | - | | |
| Hapmap27205-BTA-156398 | 29 | 18203037 | 1.09E-05 | No | *-* | *-* | | - | | |
| BTB-01442313 | 29 | 18519155 | 1.04E-05 | No | *-* | *-* | | - | | |
| BTB-01654014 | 29 | 20077616 | 1.73E-05 | No | *-* | *-* | | - | | |
| ARS-BFGL-NGS-115158 | 29 | 21828399 | 1.49E-05 | No | *-* | *-* | | - | | |
| UA-IFASA-7213 | 29 | 30614026 | 1.11E-05 | No | *-* | *-* | | - | | |
| BTA-66199-no-rs | 29 | 48735363 | 8.86E-06 | No | *-* | *-* | | - | | |
| **Medium tick infestation** | | | | | | | | | | |
| Hapmap38892-BTA-36614 | 1 | 5496635 | 7.36E-06 | No | *-* | | *-* | | - | |
| Hapmap51901-BTA-42438 | 1 | 6187555 | 6.83E-06 | No | *-* | | *-* | | - | |
| BTB-01342789 | 1 | 18508517 | 1.16E-05 | No | *-* | | *-* | | - | |
| BTB-01533869 | 1 | 26920553 | 7.53E-06 | No | *-* | | *-* | | - | |
| BTB-01755357 | 1 | 31870106 | 8.37E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-100434 | 1 | 34864497 | 9.56E-06 | No | *-* | | *-* | | - | |
| DPI-2 | 1 | 35604177 | 8.05E-06 | No | *-* | | *-* | | - | |
| Hapmap49368-BTA-89726 | 1 | 43735256 | 9.14E-06 | No | *-* | | *-* | | - | |
| BTA-21519-no-rs | 1 | 45214460 | 9.19E-06 | No | *-* | | *-* | | - | |
| Hapmap60140-ss46526251 | 1 | 46370195 | 1.22E-05 | No | *-* | | *-* | | - | |
| BTA-31615-no-rs | 1 | 59337004 | 6.49E-06 | No | *-* | | *-* | | - | |
| Hapmap47477-BTA-103865 | 1 | 88050696 | 7.18E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-60021 | 1 | 97300654 | 9.17E-06 | No | *-* | | *-* | | - | |
| Hapmap55381-rs29025399 | 1 | 114137258 | 7.95E-06 | No | *-* | | *-* | | - | |
| BTB-02083452 | 1 | 116879644 | 6.65E-06 | No | *-* | | *-* | | - | |
| BTB-00054647 | 1 | 123372013 | 6.93E-06 | No | *-* | | *-* | | - | |
| BTA-97832-no-rs | 1 | 125283942 | 1.38E-05 | Yes | *-* | | *-* | | - | |
| ARS-BFGL-NGS-1834 | 1 | 132696696 | 6.83E-06 | No | *-* | | *-* | | - | |
| Hapmap20495-rs29024564 | 1 | 138692649 | 8.55E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112213 | 1 | 151665620 | 7.98E-06 | No | *-* | | *-* | | - | |
| Hapmap38969-BTA-58311 | 1 | 154602704 | 6.40E-06 | No | *-* | | *-* | | - | |
| Hapmap59327-rs29016284 | 1 | 156598837 | 8.84E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-36332 | 1 | 157124942 | 8.68E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-5053 | 1 | 157419451 | 6.39E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-15763 | 2 | 3793543 | 6.76E-06 | No | *-* | | *-* | | - | |
| BTB-01977132 | 2 | 7520210 | 1.03E-05 | No | *-* | | *-* | | - | |
| Hapmap25939-BTA-47983 | 2 | 9092815 | 6.91E-06 | No | *-* | | *-* | | - | |
| BTB-01782721 | 2 | 21389327 | 1.40E-05 | Yes | *-* | | *HOXD1* | | Marker is > 5000 bp <=25000 bp Before Feature | |
| BTB-01693574 | 2 | 23061078 | 7.32E-06 | No | *-* | | *-* | | - | |
| BTB-00085877 | 2 | 23628756 | 7.41E-06 | No | *-* | | *-* | | - | |
| Hapmap59917-rs29012418 | 2 | 24519348 | 8.55E-06 | No | *-* | | *-* | | - | |
| Hapmap57743-rs29026473 | 2 | 28376835 | 9.04E-06 | No | *-* | | *-* | | - | |
| Hapmap39178-BTA-96630 | 2 | 29027343 | 9.04E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-30262 | 2 | 39246711 | 7.17E-06 | No | *-* | | *-* | | - | |
| Hapmap31810-BTA-155140 | 2 | 53330902 | 6.75E-06 | No | *-* | | *-* | | - | |
| BTA-46608-no-rs | 2 | 53779266 | 6.91E-06 | No | *-* | | *-* | | - | |
| Hapmap43801-BTA-18254 | 2 | 54130292 | 1.01E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-15250 | 2 | 89845085 | 6.37E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113504 | 2 | 101089845 | 6.56E-06 | No | *-* | | *-* | | - | |
| BTB-01889889 | 2 | 104905603 | 9.69E-06 | No | *-* | | *-* | | - | |
| Hapmap46209-BTA-28196 | 2 | 112515240 | 6.55E-06 | No | *-* | | *-* | | - | |
| Hapmap40620-BTA-98529 | 2 | 114545992 | 1.19E-05 | No | *-* | | *-* | | - | |
| Hapmap46266-BTA-98535 | 2 | 114639084 | 8.18E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-107909 | 2 | 116934708 | 1.47E-05 | Yes | *CCL20* | | *-* | | - | |
| ARS-BFGL-NGS-5980 | 2 | 134759459 | 1.28E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-67260 | 2 | 135190642 | 6.71E-06 | No | *-* | | *-* | | - | |
| Hapmap42163-BTA-27347 | 3 | 259213 | 8.36E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112786 | 3 | 7147596 | 6.40E-06 | No | *-* | | *-* | | - | |
| Hapmap32868-BTA-161473 | 3 | 7446399 | 9.31E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-36635 | 3 | 12312362 | 7.39E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-84180 | 3 | 14674365 | 6.57E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-117779 | 3 | 32233307 | 6.61E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-109932 | 3 | 53574180 | 6.65E-06 | No | *-* | | *-* | | - | |
| INRA-649 | 3 | 58933414 | 6.40E-06 | No | *-* | | *-* | | - | |
| BTA-68603-no-rs | 3 | 86886379 | 8.83E-06 | No | *-* | | *-* | | - | |
| BTA-35586-no-rs | 3 | 97069254 | 6.58E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-25455 | 3 | 105536719 | 1.12E-05 | No | *-* | | *-* | | - | |
| Hapmap58504-rs29017745 | 3 | 115504268 | 7.29E-06 | No | *-* | | *-* | | - | |
| Hapmap52849-rs29021928 | 3 | 120622998 | 8.03E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-104799 | 3 | 120772981 | 8.18E-06 | No | *-* | | *-* | | - | |
| Hapmap39541-BTA-118502 | 4 | 3219644 | 6.48E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-104060 | 4 | 4593967 | 8.76E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-57716 | 4 | 4728423 | 6.42E-06 | No | *-* | | *-* | | - | |
| Hapmap50489-BTA-85396 | 4 | 17701677 | 6.94E-06 | No | *-* | | *-* | | - | |
| Hapmap27013-BTA-158242 | 4 | 23543662 | 6.75E-06 | No | *-* | | *-* | | - | |
| Hapmap47167-BTA-107276 | 4 | 43292197 | 8.26E-06 | No | *-* | | *-* | | - | |
| BTB-00193327 | 4 | 62606492 | 7.16E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112549 | 4 | 78227607 | 6.67E-06 | No | *-* | | *-* | | - | |
| Hapmap41946-BTA-72562 | 4 | 111140851 | 6.75E-06 | No | *-* | | *-* | | - | |
| BTB-01163345 | 4 | 112080616 | 6.73E-06 | No | *-* | | *-* | | - | |
| Hapmap54948-rs29009927 | 5 | 10482135 | 1.05E-05 | No | *-* | | *-* | | - | |
| Hapmap55297-rs29017245 | 5 | 11158112 | 6.62E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111940 | 5 | 13142317 | 7.07E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-20187 | 5 | 16024346 | 9.79E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-28024 | 5 | 32220261 | 8.37E-06 | No | *-* | | *-* | | - | |
| BTA-26132-no-rs | 5 | 41799777 | 1.53E-05 | Yes | *-* | | *-* | | - | |
| ARS-BFGL-NGS-29546 | 5 | 73258507 | 6.46E-06 | No | *-* | | *-* | | - | |
| Hapmap51303-BTA-74377 | 5 | 83790390 | 7.13E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-39308 | 5 | 85288739 | 7.91E-06 | No | *-* | | *-* | | - | |
| Hapmap24213-BTA-161079 | 5 | 85817422 | 7.30E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111323 | 5 | 100452647 | 1.19E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-68670 | 5 | 104843055 | 6.56E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-102312 | 5 | 105337527 | 6.86E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-38440 | 5 | 121062420 | 7.19E-06 | No | *-* | | *-* | | - | |
| BTA-94737-no-rs | 6 | 2584893 | 6.98E-06 | No | *-* | | *-* | | - | |
| Hapmap59720-rs29025265 | 6 | 2642053 | 1.04E-05 | No | *-* | | *-* | | - | |
| BTB-01939106 | 6 | 10542071 | 7.77E-06 | No | *-* | | *-* | | - | |
| BTB-01322000 | 6 | 10659718 | 9.94E-06 | No | *-* | | *-* | | - | |
| Hapmap44566-BTA-76618 | 6 | 11998522 | 6.66E-06 | No | *-* | | *-* | | - | |
| Hapmap26355-BTA-123034 | 6 | 12602914 | 6.83E-06 | No | *-* | | *-* | | - | |
| Hapmap48464-BTA-77646 | 6 | 17862924 | 7.05E-06 | No | *-* | | *-* | | - | |
| Hapmap45671-BTA-122516 | 6 | 21796191 | 9.26E-06 | No | *-* | | *-* | | - | |
| Hapmap27887-BTA-156628 | 6 | 35456685 | 7.25E-06 | No | *-* | | *-* | | - | |
| Hapmap23971-BTC-035093 | 6 | 40158436 | 7.51E-06 | No | *-* | | *-* | | - | |
| Hapmap32456-BTC-038385 | 6 | 45216251 | 1.22E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-97136 | 6 | 45909053 | 6.57E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-116332 | 6 | 63039838 | 7.31E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-76212 | 6 | 98576371 | 7.56E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-54737 | 6 | 107086553 | 1.08E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112814 | 6 | 108041362 | 9.01E-06 | No | *-* | | *-* | | - | |
| BTA-78066-no-rs | 6 | 116443441 | 8.55E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-115333 | 7 | 3248028 | 7.00E-06 | No | *-* | | *-* | | - | |
| BTB-00291093 | 7 | 4501997 | 7.37E-06 | No | *-* | | *-* | | - | |
| BTA-78589-no-rs | 7 | 24920904 | 6.68E-06 | No | *-* | | *-* | | - | |
| BTB-00264202 | 7 | 26984291 | 6.69E-06 | No | *-* | | *-* | | - | |
| BTB-01216761 | 7 | 27213604 | 7.05E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-110438 | 7 | 27258897 | 7.90E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-66965 | 7 | 29816068 | 8.83E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-1759 | 7 | 29901239 | 9.04E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-52872 | 7 | 48709232 | 8.18E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-1457 | 7 | 49794088 | 1.05E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-23933 | 7 | 51574295 | 9.58E-06 | No | *-* | | *-* | | - | |
| BTB-01641665 | 7 | 57575330 | 9.98E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-110279 | 7 | 80483871 | 6.80E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112487 | 7 | 84971705 | 7.60E-06 | No | *-* | | *-* | | - | |
| Hapmap49872-BTA-115580 | 7 | 89967934 | 7.90E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-32449 | 7 | 94840801 | 8.83E-06 | No | *-* | | *-* | | - | |
| BTA-110434-no-rs | 7 | 95554033 | 6.64E-06 | No | *-* | | *-* | | - | |
| Hapmap55378-rs29025271 | 7 | 96192503 | 1.59E-05 | Yes | *-* | | *-* | | - | |
| Hapmap31054-BTA-112283 | 7 | 102777090 | 9.85E-06 | No | *-* | | *-* | | - | |
| BTB-00955523 | 7 | 105621232 | 7.72E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-12657 | 7 | 108817785 | 7.62E-06 | No | *-* | | *-* | | - | |
| Hapmap57373-rs29019418 | 7 | 108861104 | 1.29E-05 | No | *-* | | *-* | | - | |
| ARS-USMARC-Parent-DQ916058-rs29016146 | 8 | 1554706 | 6.76E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111379 | 8 | 2453388 | 8.70E-06 | No | *-* | | *-* | | - | |
| Hapmap31231-BTA-80920 | 8 | 3190201 | 8.15E-06 | No | *-* | | *-* | | - | |
| BTA-81130-no-rs | 8 | 44276510 | 6.43E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-97020 | 8 | 62544260 | 6.59E-06 | No | *-* | | *-* | | - | |
| BTA-81701-no-rs | 8 | 64266000 | 6.49E-06 | No | *-* | | *-* | | - | |
| BTA-19348-no-rs | 8 | 65338177 | 1.22E-05 | No | *-* | | *-* | | - | |
| Hapmap25871-BTA-152798 | 8 | 68894735 | 1.00E-05 | No | *-* | | *-* | | - | |
| Hapmap50167-BTA-95319 | 8 | 79187322 | 8.89E-06 | No | *-* | | *-* | | - | |
| BTB-00360817 | 8 | 79497558 | 6.51E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-97157 | 8 | 90539222 | 6.74E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-107795 | 8 | 102179525 | 1.02E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-40447 | 8 | 103188091 | 8.00E-06 | No | *-* | | *-* | | - | |
| ARS-USMARC-Parent-DQ674265-rs29011266 | 8 | 106174871 | 7.61E-06 | No | *-* | | *-* | | - | |
| BTA-82677-no-rs | 8 | 107623390 | 7.01E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-33591 | 8 | 110815784 | 7.85E-06 | No | *-* | | *-* | | - | |
| BTB-01504012 | 9 | 5310520 | 6.72E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-102706 | 9 | 5747133 | 7.21E-06 | No | *-* | | *-* | | - | |
| Hapmap43790-BTA-121886 | 9 | 8425284 | 7.26E-06 | No | *-* | | *-* | | - | |
| Hapmap57341-rs29010513 | 9 | 15767136 | 2.09E-05 | Yes | *MYO6* | | *-* | | - | |
| ARS-BFGL-NGS-101978 | 9 | 18123535 | 8.31E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-15823 | 9 | 28887462 | 7.69E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-63180 | 9 | 38575112 | 1.53E-05 | Yes | *-* | | *-* | | - | |
| ARS-BFGL-NGS-72216 | 9 | 40979935 | 7.42E-06 | No | *-* | | *-* | | - | |
| Hapmap38574-BTA-118638 | 9 | 41989065 | 6.80E-06 | No | *-* | | *-* | | - | |
| Hapmap44189-BTA-109443 | 9 | 44815699 | 6.88E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-75682 | 9 | 71469050 | 9.92E-06 | No | *-* | | *-* | | - | |
| BTA-84308-no-rs | 9 | 76527168 | 6.92E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-93641 | 9 | 94643772 | 7.05E-06 | No | *-* | | *-* | | - | |
| BTA-85048-no-rs | 9 | 99271707 | 7.27E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-26554 | 9 | 102826828 | 7.10E-06 | No | *-* | | *-* | | - | |
| Hapmap38884-BTA-122472 | 9 | 105074182 | 8.59E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-7255 | 10 | 13606664 | 7.65E-06 | No | *-* | | *-* | | - | |
| BTB-01643848 | 10 | 26589153 | 6.92E-06 | No | *-* | | *-* | | - | |
| BTB-01288875 | 10 | 39278374 | 1.24E-05 | No | *-* | | *-* | | - | |
| BTA-122483-no-rs | 10 | 40856335 | 1.10E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-117876 | 10 | 48502416 | 1.15E-05 | No | *-* | | *-* | | - | |
| Hapmap46726-BTA-77316 | 10 | 86511068 | 7.54E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-7857 | 10 | 86774733 | 6.77E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113370 | 10 | 87334868 | 8.01E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-118199 | 10 | 91086389 | 8.06E-06 | No | *-* | | *-* | | - | |
| Hapmap30845-BTA-148497 | 11 | 4655636 | 7.88E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-25743 | 11 | 5389716 | 9.21E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-37149 | 11 | 12717282 | 6.89E-06 | No | *-* | | *-* | | - | |
| BTB-00460506 | 11 | 12947549 | 8.88E-06 | No | *-* | | *-* | | - | |
| Hapmap48102-BTA-85468 | 11 | 12970800 | 7.37E-06 | No | *-* | | *-* | | - | |
| BTB-00462448 | 11 | 15814741 | 1.06E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-26022 | 11 | 21652185 | 6.50E-06 | No | *-* | | *-* | | - | |
| BTB-00466557 | 11 | 23176087 | 1.21E-05 | No | *-* | | *-* | | - | |
| BTB-00475139 | 11 | 60203243 | 1.18E-05 | No | *-* | | *-* | | - | |
| Hapmap35713-SCAFFOLD296111\_2548 | 11 | 68592752 | 9.40E-06 | No | *-* | | *-* | | - | |
| Hapmap40038-BTA-102170 | 11 | 70879221 | 8.13E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-90250 | 11 | 74354594 | 6.54E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-8919 | 11 | 77560928 | 7.81E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-61477 | 11 | 78001260 | 8.74E-06 | No | *-* | | *-* | | - | |
| BTA-108440-no-rs | 11 | 84083499 | 1.03E-05 | No | *-* | | *-* | | - | |
| BTA-26840-no-rs | 11 | 84784082 | 7.14E-06 | No | *-* | | *-* | | - | |
| BTA-61777-no-rs | 11 | 85192381 | 6.40E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-116569 | 11 | 86751976 | 1.49E-05 | Yes | *ROCK2, KCNF1, PQLC3, ATP6V1C2, C2orf50* | | *-* | | - | |
| ARS-BFGL-NGS-45263 | 11 | 88621486 | 8.37E-06 | No | *-* | | *-* | | - | |
| BTA-118582-no-rs | 11 | 91501099 | 7.00E-06 | No | *-* | | *-* | | - | |
| BTA-69403-no-rs | 11 | 105371400 | 8.67E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-25386 | 11 | 107153765 | 9.66E-06 | No | *-* | | *-* | | - | |
| Hapmap49942-BTA-27508 | 12 | 2682385 | 6.57E-06 | No | *-* | | *-* | | - | |
| BTA-53873-no-rs | 12 | 9754433 | 1.21E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-115282 | 12 | 21157380 | 8.72E-06 | No | *-* | | *-* | | - | |
| Hapmap39051-BTA-117620 | 12 | 24803254 | 7.34E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-12462 | 12 | 24824923 | 8.01E-06 | No | *-* | | *-* | | - | |
| BTA-18613-no-rs | 12 | 30751569 | 6.86E-06 | No | *-* | | *-* | | - | |
| BTB-00491672 | 12 | 46589464 | 7.52E-06 | No | *-* | | *-* | | - | |
| BTB-00776345 | 12 | 47985472 | 6.73E-06 | No | *-* | | *-* | | - | |
| Hapmap43279-BTA-50109 | 12 | 48162793 | 6.99E-06 | No | *-* | | *-* | | - | |
| Hapmap41810-BTA-26946 | 12 | 55410460 | 7.63E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-8701 | 12 | 79374370 | 7.84E-06 | No | *-* | | *-* | | - | |
| Hapmap52431-ss46526792 | 13 | 533391 | 6.95E-06 | No | *-* | | *-* | | - | |
| Hapmap26161-BTA-151057 | 13 | 739720 | 7.83E-06 | No | *-* | | *-* | | - | |
| Hapmap27855-BTA-123415 | 13 | 806792 | 9.13E-06 | No | *-* | | *-* | | - | |
| BTA-16874-no-rs | 13 | 1735034 | 6.48E-06 | No | *-* | | *-* | | - | |
| Hapmap61019-rs29009751 | 13 | 4693551 | 9.77E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-119032 | 13 | 9623038 | 6.97E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-13111 | 13 | 16806019 | 6.40E-06 | No | *-* | | *-* | | - | |
| Hapmap31057-BTA-115291 | 13 | 20457510 | 7.32E-06 | No | *-* | | *-* | | - | |
| BTA-112161-no-rs | 13 | 22904772 | 9.47E-06 | No | *-* | | *-* | | - | |
| Hapmap39219-BTA-31890 | 13 | 23529663 | 7.97E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111594 | 13 | 26496734 | 9.95E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-101633 | 13 | 30310253 | 8.70E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-32007 | 13 | 34017769 | 8.53E-06 | No | *-* | | *-* | | - | |
| BTB-01342926 | 13 | 35309000 | 1.10E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-36574 | 13 | 40031719 | 9.32E-06 | No | *-* | | *-* | | - | |
| BTA-32982-no-rs | 13 | 56402912 | 7.39E-06 | No | *-* | | *-* | | - | |
| Hapmap55254-rs29014939 | 13 | 69042143 | 1.18E-05 | No | *-* | | *-* | | - | |
| UA-IFASA-9680 | 13 | 79546003 | 9.67E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-36793 | 13 | 80239131 | 1.52E-05 | Yes | *ATP9A, NFATC2, SALL4,* | | *ATP9A* | | Yes | |
| ARS-BFGL-NGS-48534 | 13 | 81379580 | 7.40E-06 | No | *-* | | *-* | | - | |
| BTA-34052-no-rs | 13 | 81417910 | 1.10E-05 | No | *-* | | *-* | | - | |
| BTA-29190-no-rs | 13 | 82957975 | 6.49E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-56163 | 13 | 83202886 | 1.02E-05 | No | *-* | | *-* | | - | |
| Hapmap33459-BTC-069647 | 14 | 6486431 | 1.28E-05 | No | *-* | | *-* | | - | |
| Hapmap39020-BTA-35975 | 14 | 12901291 | 9.87E-06 | No | *-* | | *-* | | - | |
| Hapmap33173-BTC-073249 | 14 | 27896353 | 6.87E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-116559 | 14 | 28201349 | 7.66E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-8173 | 14 | 43353000 | 6.38E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113927 | 14 | 51396430 | 1.67E-05 | Yes | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112566 | 14 | 59398170 | 7.10E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-7236 | 14 | 69288756 | 6.45E-06 | No | *-* | | *-* | | - | |
| Hapmap54796-rs29014519 | 14 | 73941140 | 8.36E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-118668 | 14 | 80723890 | 6.51E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-6257 | 14 | 83988724 | 1.04E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113417 | 15 | 21732355 | 1.08E-05 | No | *-* | | *-* | | - | |
| Hapmap52669-rs29014752 | 15 | 22542686 | 6.43E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-20519 | 15 | 22620312 | 8.51E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-16495 | 15 | 23643505 | 7.28E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-118826 | 15 | 35025637 | 6.54E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-17983 | 15 | 54769019 | 6.81E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-19286 | 15 | 54803685 | 1.12E-05 | No | *-* | | *-* | | - | |
| BTB-00607669 | 15 | 59020999 | 6.60E-06 | No | *-* | | *-* | | - | |
| BTA-96695-no-rs | 15 | 60194965 | 8.88E-06 | No | *-* | | *-* | | - | |
| BTB-00566504 | 15 | 60579627 | 8.65E-06 | No | *-* | | *-* | | - | |
| BTB-00611605 | 15 | 67486632 | 7.20E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-103106 | 15 | 68288320 | 6.64E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-19590 | 15 | 68444035 | 7.61E-06 | No | *-* | | *-* | | - | |
| Hapmap40672-BTA-121035 | 15 | 73432445 | 7.70E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-119752 | 15 | 76379840 | 6.40E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113995 | 15 | 78401390 | 7.71E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-86653 | 16 | 12483223 | 9.93E-06 | No | *-* | | *-* | | - | |
| BTA-114646-no-rs | 16 | 14500474 | 6.78E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-35246 | 16 | 20731806 | 8.47E-06 | No | *-* | | *-* | | - | |
| BTB-01475457 | 16 | 21326517 | 1.19E-05 | No | *-* | | *-* | | - | |
| BTB-00629775 | 16 | 21708659 | 1.14E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-55380 | 16 | 21821449 | 6.87E-06 | No | *-* | | *-* | | - | |
| Hapmap47933-BTA-38363 | 16 | 29812601 | 1.37E-05 | Yes | *H3F3A, H3F3B, TMEM63A, LIN9, SDE2, EPHX1, MIXL1, ACBD3* | | *H3F3B* | | Marker is > 5000 bp <=25000 bp Before Feature | |
| ARS-BFGL-NGS-114924 | 16 | 46093561 | 7.49E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-1639 | 16 | 58707106 | 8.01E-06 | No | *-* | | *-* | | - | |
| BTB-01584700 | 16 | 79161508 | 1.00E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-52551 | 16 | 80859590 | 1.30E-05 | No | *-* | | *-* | | - | |
| BTA-89511-no-rs | 17 | 3099005 | 6.51E-06 | No | *-* | | *-* | | - | |
| BTA-41349-no-rs | 17 | 4265936 | 6.50E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-94455 | 17 | 8800578 | 8.76E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-43717 | 17 | 9392845 | 7.89E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-51247 | 17 | 10380674 | 8.57E-06 | No | *-* | | *-* | | - | |
| Hapmap52011-BTA-40675 | 17 | 22972193 | 6.82E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-18831 | 17 | 26010339 | 8.37E-06 | No | *-* | | *-* | | - | |
| BTA-46662-no-rs | 17 | 26712567 | 7.22E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-108089 | 17 | 40804507 | 6.55E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-107312 | 17 | 53797095 | 9.54E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-52835 | 17 | 68545781 | 8.68E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-109830 | 17 | 69312539 | 7.85E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-97892 | 18 | 1363868 | 8.12E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-116116 | 18 | 2004632 | 6.88E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-100294 | 18 | 5405616 | 7.65E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-93178 | 18 | 6961838 | 8.10E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112554 | 18 | 7014208 | 1.01E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-1116 | 18 | 9539002 | 6.40E-06 | No | *-* | | *-* | | - | |
| Hapmap47288-BTA-42323 | 18 | 10852558 | 1.29E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-23457 | 18 | 16515915 | 1.01E-05 | No | *-* | | *-* | | - | |
| Hapmap23161-BTA-162019 | 18 | 27281676 | 6.87E-06 | No | *-* | | *-* | | - | |
| BTB-01588251 | 18 | 45474850 | 8.28E-06 | No | *-* | | *-* | | - | |
| ARS-USMARC-Parent-AY863214-rs17871744 | 18 | 46647177 | 1.10E-05 | No | *PSENEN* | | *-* | | - | |
| ARS-BFGL-NGS-14927 | 18 | 46677643 | 8.90E-06 | No | *-* | | *-* | | - | |
| BTA-118931-no-rs | 18 | 52024379 | 1.36E-05 | Yes | *BSP1, BSP3, BSP5, PLAUR, ETHE1, LYPD3, CADM4, ZNF428, TEX101, CD177, ZNF576, IRGQ, PINLYP, XRCC1, CXCL17* | | *-* | | - | |
| ARS-BFGL-NGS-35636 | 18 | 62467006 | 1.20E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-73221 | 18 | 62804417 | 7.70E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-58016 | 18 | 65604707 | 9.33E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-37417 | 19 | 5825105 | 6.43E-06 | No | *-* | | *-* | | - | |
| Hapmap32837-BTA-149843 | 19 | 6106937 | 9.38E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-6719 | 19 | 8597725 | 9.60E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-102654 | 19 | 11401381 | 7.51E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-5958 | 19 | 13457401 | 7.18E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-114597 | 19 | 56533680 | 1.01E-05 | No | *-* | | *-* | | - | |
| Hapmap30525-BTA-133378 | 19 | 58642115 | 8.68E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-28479 | 20 | 4425557 | 7.07E-06 | No | *-* | | *-* | | - | |
| BTB-00144202 | 20 | 4713452 | 7.48E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-4292 | 20 | 6534735 | 6.96E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-98789 | 20 | 7103987 | 7.49E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-5131 | 20 | 23085736 | 7.10E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-107265 | 20 | 25760711 | 6.77E-06 | No | *-* | | *-* | | - | |
| Hapmap51975-BTA-23912 | 20 | 28773049 | 6.81E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-14378 | 20 | 29322034 | 7.90E-06 | No | *-* | | *-* | | - | |
| Hapmap51988-BTA-92052 | 20 | 43489592 | 9.43E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-2314 | 20 | 59514189 | 8.14E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111615 | 20 | 62077963 | 6.40E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-110376 | 20 | 63739292 | 6.76E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-14372 | 20 | 69343823 | 6.40E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-73082 | 21 | 2642904 | 7.18E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-59613 | 21 | 13961617 | 1.03E-05 | No | *-* | | *-* | | - | |
| Hapmap30803-BTA-135661 | 21 | 14304199 | 7.32E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-112137 | 21 | 16341393 | 7.63E-06 | No | *-* | | *-* | | - | |
| Hapmap38505-BTA-51760 | 21 | 19193100 | 6.43E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-63590 | 21 | 19953173 | 7.26E-06 | No | *-* | | *-* | | - | |
| Hapmap60593-rs29025761 | 21 | 27328130 | 1.05E-05 | No | *-* | | *-* | | - | |
| BTA-68607-no-rs | 21 | 32880526 | 8.40E-06 | No | *-* | | *-* | | - | |
| Hapmap53974-rs29024107 | 21 | 35522405 | 9.54E-06 | No | *-* | | *-* | | - | |
| Hapmap58716-rs29021182 | 21 | 36554417 | 9.48E-06 | No | *-* | | *-* | | - | |
| BTB-00822762 | 21 | 49165337 | 1.18E-05 | No | *-* | | *-* | | - | |
| BTB-01690594 | 21 | 51176485 | 6.91E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-118961 | 21 | 62089501 | 1.02E-05 | No | *-* | | *-* | | - | |
| BTA-24891-no-rs | 21 | 63955841 | 6.81E-06 | No | *-* | | *-* | | - | |
| Hapmap52873-ss46526026 | 21 | 66064177 | 1.51E-05 | Yes | *SETD3, CCDC85C, BCL11B* | | *SETD3* | | Yes | |
| ARS-BFGL-NGS-30499 | 22 | 3046992 | 8.93E-06 | No | *-* | | *-* | | - | |
| Hapmap44095-BTA-55125 | 22 | 8626195 | 8.10E-06 | No | *-* | | *-* | | - | |
| BTB-01887959 | 22 | 9222993 | 7.28E-06 | No | *-* | | *-* | | - | |
| BTB-00839323 | 22 | 19168846 | 8.30E-06 | No | *-* | | *-* | | - | |
| Hapmap40022-BTA-70534 | 22 | 19807636 | 7.18E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-6532 | 22 | 21770149 | 6.77E-06 | No | *-* | | *-* | | - | |
| Hapmap55470-rs29017069 | 22 | 23575419 | 6.51E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-113670 | 22 | 29803741 | 7.59E-06 | No | *-* | | *-* | | - | |
| BTA-106477-no-rs | 22 | 42111462 | 8.42E-06 | No | *-* | | *-* | | - | |
| Hapmap30494-BTA-122955 | 22 | 43862404 | 7.85E-06 | No | *-* | | *-* | | - | |
| Hapmap61036-rs29016268 | 22 | 44795825 | 9.19E-06 | No | *-* | | *-* | | - | |
| Hapmap60563-ss46526220 | 22 | 54256311 | 8.39E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-55311 | 22 | 54583973 | 6.55E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-116073 | 22 | 55063369 | 6.39E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-103160 | 23 | 2247046 | 6.88E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-67812 | 23 | 3626219 | 6.56E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-35859 | 23 | 4590972 | 6.46E-06 | No | *-* | | *-* | | - | |
| Hapmap58570-ss46526027 | 23 | 7132129 | 8.83E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111735 | 23 | 12997137 | 1.61E-05 | Yes | *KCNK17* | | *DNAH8* | | Yes | |
| ARS-BFGL-NGS-24521 | 23 | 13025914 | 6.72E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-30068 | 23 | 13691444 | 6.39E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-25325 | 23 | 14981935 | 1.04E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-25108 | 23 | 21315975 | 7.56E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-117031 | 23 | 25222914 | 1.35E-05 | Yes | *BOLA-DQA2, BOLA-DQA5, BOLA-DQB, GCM1, ICK, FBXO9* | | *ELOVL5* | | Yes | |
| ARS-BFGL-NGS-104089 | 23 | 35182683 | 6.81E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-31956 | 23 | 36112949 | 6.78E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-4463 | 23 | 38810995 | 6.51E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-77290 | 23 | 41496176 | 9.08E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-4455 | 23 | 52091670 | 8.48E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-114852 | 24 | 2498535 | 7.71E-06 | No | *-* | | *-* | | - | |
| BTA-115451-no-rs | 24 | 8540940 | 1.28E-05 | No | *-* | | *-* | | - | |
| Hapmap38596-BTA-41284 | 24 | 24220391 | 7.19E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-27451 | 24 | 26435436 | 9.14E-06 | No | *-* | | *-* | | - | |
| BTA-112410-no-rs | 24 | 27475390 | 1.06E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-103621 | 24 | 27808368 | 7.49E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-4800 | 24 | 31524371 | 8.11E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-14224 | 24 | 32032423 | 7.33E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-13314 | 24 | 45775076 | 6.41E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-24167 | 24 | 48784991 | 7.34E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-13986 | 24 | 50027354 | 8.70E-06 | No | *-* | | *-* | | - | |
| BTA-58638-no-rs | 24 | 53790841 | 7.33E-06 | No | *-* | | *-* | | - | |
| BTB-00891813 | 24 | 56487933 | 1.02E-05 | No | *-* | | *-* | | - | |
| BTB-00891865 | 24 | 56535985 | 6.72E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-35262 | 24 | 56564480 | 6.49E-06 | No | *-* | | *-* | | - | |
| Hapmap36042-SCAFFOLD31537\_3371 | 25 | 3055650 | 8.79E-06 | No | *-* | | *-* | | - | |
| Hapmap31994-BTC-065943 | 25 | 5385729 | 7.08E-06 | No | *-* | | *-* | | - | |
| Hapmap32974-BTC-065967 | 25 | 5408004 | 6.59E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-33705 | 25 | 28413439 | 8.15E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-101637 | 25 | 28906785 | 6.38E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-6752 | 25 | 38560656 | 6.67E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-BAC-47313 | 25 | 41213862 | 7.50E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-73895 | 26 | 6948695 | 1.03E-05 | No | *-* | | *-* | | - | |
| BTB-00934189 | 26 | 25355925 | 6.38E-06 | No | *-* | | *-* | | - | |
| Hapmap38330-BTA-61119 | 26 | 30903998 | 7.36E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-7574 | 26 | 37441511 | 1.07E-05 | No | *-* | | *-* | | - | |
| Hapmap41035-BTA-61488 | 26 | 37668932 | 6.77E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-10035 | 26 | 39952154 | 9.50E-06 | No | *-* | | *-* | | - | |
| BTA-100861-no-rs | 26 | 40648090 | 7.54E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-118736 | 26 | 40959791 | 1.08E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-10498 | 26 | 41341146 | 7.69E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-11088 | 27 | 22779747 | 6.74E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-27731 | 27 | 26838250 | 7.92E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-40430 | 27 | 29934809 | 7.81E-06 | No | *-* | | *-* | | - | |
| Hapmap51137-BTA-107964 | 27 | 30797409 | 6.48E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-35188 | 27 | 36285734 | 7.37E-06 | No | *-* | | *-* | | - | |
| Hapmap59081-rs29017657 | 27 | 43730070 | 8.12E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-2154 | 28 | 3976460 | 9.58E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-114347 | 28 | 12126849 | 7.40E-06 | No | *-* | | *-* | | - | |
| Hapmap50751-BTA-64830 | 28 | 13270960 | 1.53E-05 | Yes | *ZNF248, ZNF25* | | *-* | | - | |
| BTA-64815-no-rs | 28 | 13659540 | 8.05E-06 | No | *-* | | *-* | | - | |
| Hapmap43635-BTA-63570 | 28 | 15502546 | 6.41E-06 | No | *-* | | *-* | | - | |
| Hapmap42306-BTA-73982 | 28 | 16753454 | 8.16E-06 | No | *-* | | *-* | | - | |
| BTB-01128833 | 28 | 20792415 | 6.40E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-27870 | 28 | 33632545 | 8.19E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-6902 | 28 | 34929321 | 8.30E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-15178 | 28 | 41426446 | 1.16E-05 | No | *-* | | *-* | | - | |
| BTB-00992523 | 28 | 42219956 | 1.09E-05 | No | *-* | | *-* | | - | |
| Hapmap58534-rs29018685 | 29 | 724198 | 9.61E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-9243 | 29 | 3870348 | 8.00E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-3437 | 29 | 9454029 | 6.84E-06 | No | *-* | | *-* | | - | |
| BTA-105944-no-rs | 29 | 14871102 | 7.18E-06 | No | *-* | | *-* | | - | |
| BTB-01442313 | 29 | 18519155 | 8.56E-06 | No | *-* | | *-* | | - | |
| BTB-01654014 | 29 | 20077616 | 1.19E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-115158 | 29 | 21828399 | 1.15E-05 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-18922 | 29 | 21930571 | 6.99E-06 | No | *-* | | *-* | | - | |
| UA-IFASA-7213 | 29 | 30614026 | 8.49E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-101872 | 29 | 35924543 | 6.38E-06 | No | *-* | | *-* | | - | |
| ARS-BFGL-NGS-111347 | 29 | 48285322 | 7.69E-06 | No | *-* | | *-* | | - | |
| BTA-66199-no-rs | 29 | 48735363 | 6.50E-06 | No | *-* | | *-* | | - | |
| **High tick infestation** | | | | | | | | | | |
| Hapmap38892-BTA-36614 | 1 | 5496635 | 3.75E-05 | No | - | | - | | | - |
| Hapmap51901-BTA-42438 | 1 | 6187555 | 3.97E-05 | No | - | | - | | | - |
| BTB-01342789 | 1 | 18508517 | 6.90E-05 | No | - | | - | | | - |
| BTB-01533869 | 1 | 26920553 | 4.17E-05 | No | - | | - | | | - |
| BTB-01755357 | 1 | 31870106 | 4.90E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-100434 | 1 | 34864497 | 5.37E-05 | No | - | | - | | | - |
| DPI-2 | 1 | 35604177 | 4.14E-05 | No | - | | - | | | - |
| Hapmap49368-BTA-89726 | 1 | 43735256 | 5.04E-05 | No | - | | - | | | - |
| BTA-21519-no-rs | 1 | 45214460 | 5.27E-05 | No | - | | - | | | - |
| Hapmap60140-ss46526251 | 1 | 46370195 | 6.42E-05 | No | - | | - | | | - |
| Hapmap47477-BTA-103865 | 1 | 88050696 | 3.95E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-60021 | 1 | 97300654 | 5.09E-05 | No | - | | - | | | - |
| Hapmap55381-rs29025399 | 1 | 114137258 | 3.78E-05 | No | - | | - | | | - |
| BTB-02083452 | 1 | 116879644 | 3.69E-05 | No | - | | - | | | - |
| BTA-97832-no-rs | 1 | 125283942 | 6.79E-05 | No | - | | - | | | - |
| Hapmap20495-rs29024564 | 1 | 138692649 | 4.50E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112213 | 1 | 151665620 | 4.34E-05 | No | - | | - | | | - |
| Hapmap59327-rs29016284 | 1 | 156598837 | 4.70E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-36332 | 1 | 157124942 | 4.23E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-15763 | 2 | 3793543 | 3.45E-05 | No | - | | - | | | - |
| BTB-01977132 | 2 | 7520210 | 5.20E-05 | No | - | | - | | | - |
| Hapmap25939-BTA-47983 | 2 | 9092815 | 3.89E-05 | No | - | | - | | | - |
| Hapmap54204-rs29015637 | 2 | 9810493 | 3.47E-05 | No | - | | - | | | - |
| BTB-00081694 | 2 | 16686097 | 3.57E-05 | No | - | | - | | | - |
| BTB-01782721 | 2 | 21389327 | 7.35E-05 | Yes | - | | HOXD1 | | | Marker is > 5000 bp <=25000 bp Before Feature |
| BTB-01693574 | 2 | 23061078 | 3.95E-05 | No | - | | - | | | - |
| BTB-00085877 | 2 | 23628756 | 4.01E-05 | No | - | | - | | | - |
| Hapmap59917-rs29012418 | 2 | 24519348 | 3.89E-05 | No | - | | - | | | - |
| Hapmap57743-rs29026473 | 2 | 28376835 | 5.01E-05 | No | - | | - | | | - |
| Hapmap39178-BTA-96630 | 2 | 29027343 | 5.44E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-30262 | 2 | 39246711 | 3.59E-05 | No | - | | - | | | - |
| BTA-46608-no-rs | 2 | 53779266 | 3.46E-05 | No | - | | - | | | - |
| Hapmap43801-BTA-18254 | 2 | 54130292 | 5.13E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113504 | 2 | 101089845 | 3.83E-05 | No | - | | - | | | - |
| BTB-01889889 | 2 | 104905603 | 4.55E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-34933 | 2 | 113483502 | 3.58E-05 | No | - | | - | | | - |
| Hapmap40620-BTA-98529 | 2 | 114545992 | 6.74E-05 | No | - | | - | | | - |
| Hapmap46266-BTA-98535 | 2 | 114639084 | 4.51E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-107909 | 2 | 116934708 | 7.97E-05 | Yes | CCL20 | | - | | | - |
| ARS-BFGL-NGS-5980 | 2 | 134759459 | 6.88E-05 | No | - | | - | | | - |
| Hapmap42163-BTA-27347 | 3 | 259213 | 4.44E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112786 | 3 | 7147596 | 3.59E-05 | No | - | | - | | | - |
| Hapmap32868-BTA-161473 | 3 | 7446399 | 4.78E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-36635 | 3 | 12312362 | 4.35E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-84180 | 3 | 14674365 | 3.63E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-117779 | 3 | 32233307 | 3.58E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-22924 | 3 | 41816541 | 3.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-109932 | 3 | 53574180 | 3.79E-05 | No | - | | - | | | - |
| Hapmap53609-rs29011253 | 3 | 60758182 | 3.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111744 | 3 | 61052934 | 3.49E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-31952 | 3 | 81472159 | 3.45E-05 | No | - | | - | | | - |
| BTA-68603-no-rs | 3 | 86886379 | 4.31E-05 | No | - | | - | | | - |
| BTA-35586-no-rs | 3 | 97069254 | 3.66E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-25455 | 3 | 105536719 | 6.56E-05 | No | - | | - | | | - |
| Hapmap58504-rs29017745 | 3 | 115504268 | 3.60E-05 | No | - | | - | | | - |
| Hapmap52849-rs29021928 | 3 | 120622998 | 4.16E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-104799 | 3 | 120772981 | 4.66E-05 | No | - | | - | | | - |
| Hapmap39541-BTA-118502 | 4 | 3219644 | 3.85E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-104060 | 4 | 4593967 | 4.45E-05 | No | - | | - | | | - |
| Hapmap50489-BTA-85396 | 4 | 17701677 | 3.52E-05 | No | - | | - | | | - |
| Hapmap27013-BTA-158242 | 4 | 23543662 | 3.85E-05 | No | - | | - | | | - |
| Hapmap47167-BTA-107276 | 4 | 43292197 | 4.31E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-100947 | 4 | 61444963 | 3.60E-05 | No | - | | - | | | - |
| BTB-00193327 | 4 | 62606492 | 3.96E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112549 | 4 | 78227607 | 3.74E-05 | No | - | | - | | | - |
| Hapmap50076-BTA-71917 | 4 | 101904386 | 3.78E-05 | No | - | | - | | | - |
| Hapmap41946-BTA-72562 | 4 | 111140851 | 3.67E-05 | No | - | | - | | | - |
| BTB-01163345 | 4 | 112080616 | 3.72E-05 | No | - | | - | | | - |
| Hapmap54948-rs29009927 | 5 | 10482135 | 5.90E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111940 | 5 | 13142317 | 3.76E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-20187 | 5 | 16024346 | 5.65E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-28024 | 5 | 32220261 | 4.86E-05 | No | - | | - | | | - |
| BTA-26132-no-rs | 5 | 41799777 | 7.70E-05 | Yes | - | | - | | | - |
| ARS-BFGL-NGS-29546 | 5 | 73258507 | 3.47E-05 | No | - | | - | | | - |
| Hapmap51303-BTA-74377 | 5 | 83790390 | 3.65E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-39308 | 5 | 85288739 | 4.33E-05 | No | - | | - | | | - |
| Hapmap24213-BTA-161079 | 5 | 85817422 | 3.67E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111323 | 5 | 100452647 | 6.56E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-68670 | 5 | 104843055 | 4.44E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-102312 | 5 | 105337527 | 3.45E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-38440 | 5 | 121062420 | 3.61E-05 | No | - | | - | | | - |
| BTA-94737-no-rs | 6 | 2584893 | 4.59E-05 | No | - | | - | | | - |
| Hapmap59720-rs29025265 | 6 | 2642053 | 4.97E-05 | No | - | | - | | | - |
| BTB-01939106 | 6 | 10542071 | 4.18E-05 | No | - | | - | | | - |
| BTB-01322000 | 6 | 10659718 | 5.47E-05 | No | - | | - | | | - |
| Hapmap48464-BTA-77646 | 6 | 17862924 | 3.95E-05 | No | - | | - | | | - |
| Hapmap45671-BTA-122516 | 6 | 21796191 | 4.82E-05 | No | - | | - | | | - |
| Hapmap27887-BTA-156628 | 6 | 35456685 | 3.84E-05 | No | - | | - | | | - |
| Hapmap23971-BTC-035093 | 6 | 40158436 | 4.27E-05 | No | - | | - | | | - |
| Hapmap32456-BTC-038385 | 6 | 45216251 | 6.19E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116332 | 6 | 63039838 | 3.57E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-76212 | 6 | 98576371 | 4.25E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-54737 | 6 | 107086553 | 5.67E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112814 | 6 | 108041362 | 5.28E-05 | No | - | | - | | | - |
| BTA-78066-no-rs | 6 | 116443441 | 4.72E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-115333 | 7 | 3248028 | 3.55E-05 | No | - | | - | | | - |
| BTB-00291093 | 7 | 4501997 | 3.92E-05 | No | - | | - | | | - |
| BTA-78589-no-rs | 7 | 24920904 | 3.67E-05 | No | - | | - | | | - |
| BTB-01216761 | 7 | 27213604 | 3.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-110438 | 7 | 27258897 | 4.40E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-66965 | 7 | 29816068 | 4.25E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-1759 | 7 | 29901239 | 5.10E-05 | No | - | | - | | | - |
| BTB-02000880 | 7 | 41009847 | 3.77E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-52872 | 7 | 48709232 | 4.39E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-1457 | 7 | 49794088 | 5.92E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-23933 | 7 | 51574295 | 5.04E-05 | No | - | | - | | | - |
| BTB-01641665 | 7 | 57575330 | 5.02E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112487 | 7 | 84971705 | 4.18E-05 | No | - | | - | | | - |
| Hapmap49872-BTA-115580 | 7 | 89967934 | 4.03E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-32449 | 7 | 94840801 | 4.76E-05 | No | - | | - | | | - |
| BTA-110434-no-rs | 7 | 95554033 | 3.78E-05 | No | - | | - | | | - |
| Hapmap55378-rs29025271 | 7 | 96192503 | 8.50E-05 | Yes | - | | - | | | - |
| Hapmap31054-BTA-112283 | 7 | 102777090 | 5.11E-05 | No | - | | - | | | - |
| BTB-00955523 | 7 | 105621232 | 3.69E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-12657 | 7 | 108817785 | 3.67E-05 | No | - | | - | | | - |
| Hapmap57373-rs29019418 | 7 | 108861104 | 6.53E-05 | No | - | | - | | | - |
| ARS-USMARC-Parent-DQ916058-rs29016146 | 8 | 1554706 | 3.57E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111379 | 8 | 2453388 | 4.27E-05 | No | - | | - | | | - |
| Hapmap31231-BTA-80920 | 8 | 3190201 | 4.72E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-72833 | 8 | 7684602 | 3.67E-05 | No | - | | - | | | - |
| BTA-81130-no-rs | 8 | 44276510 | 3.50E-05 | No | - | | - | | | - |
| BTA-19348-no-rs | 8 | 65338177 | 6.54E-05 | No | - | | - | | | - |
| Hapmap25871-BTA-152798 | 8 | 68894735 | 5.22E-05 | No | - | | - | | | - |
| Hapmap50167-BTA-95319 | 8 | 79187322 | 4.85E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-97157 | 8 | 90539222 | 3.71E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-107795 | 8 | 102179525 | 5.79E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-40447 | 8 | 103188091 | 4.14E-05 | No | - | | - | | | - |
| ARS-USMARC-Parent-DQ674265-rs29011266 | 8 | 106174871 | 4.11E-05 | No | - | | - | | | - |
| BTA-82677-no-rs | 8 | 107623390 | 4.30E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-33591 | 8 | 110815784 | 4.22E-05 | No | - | | - | | | - |
| BTB-01504012 | 9 | 5310520 | 3.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-102706 | 9 | 5747133 | 3.66E-05 | No | - | | - | | | - |
| Hapmap43790-BTA-121886 | 9 | 8425284 | 4.24E-05 | No | - | | - | | | - |
| Hapmap57341-rs29010513 | 9 | 15767136 | 1.12E-04 | Yes | MYO6 | | - | | | - |
| ARS-BFGL-NGS-101978 | 9 | 18123535 | 4.25E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-15823 | 9 | 28887462 | 4.55E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-63180 | 9 | 38575112 | 8.44E-05 | Yes | - | | - | | | - |
| ARS-BFGL-NGS-72216 | 9 | 40979935 | 4.00E-05 | No | - | | - | | | - |
| Hapmap38574-BTA-118638 | 9 | 41989065 | 3.75E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-75682 | 9 | 71469050 | 5.45E-05 | No | - | | - | | | - |
| BTA-84308-no-rs | 9 | 76527168 | 3.53E-05 | No | - | | - | | | - |
| BTA-84564-no-rs | 9 | 85585657 | 3.53E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-93641 | 9 | 94643772 | 3.99E-05 | No | - | | - | | | - |
| BTA-85048-no-rs | 9 | 99271707 | 3.65E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-26554 | 9 | 102826828 | 3.66E-05 | No | - | | - | | | - |
| Hapmap38884-BTA-122472 | 9 | 105074182 | 4.67E-05 | No | - | | - | | | - |
| UA-IFASA-7255 | 10 | 13606664 | 4.10E-05 | No | - | | - | | | - |
| BTB-01288875 | 10 | 39278374 | 6.61E-05 | No | - | | - | | | - |
| BTA-122483-no-rs | 10 | 40856335 | 5.47E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-117876 | 10 | 48502416 | 6.13E-05 | No | - | | - | | | - |
| BTB-01203270 | 10 | 72769319 | 3.67E-05 | No | - | | - | | | - |
| Hapmap46726-BTA-77316 | 10 | 86511068 | 3.63E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113370 | 10 | 87334868 | 4.53E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-118199 | 10 | 91086389 | 4.17E-05 | No | - | | - | | | - |
| Hapmap30845-BTA-148497 | 11 | 4655636 | 4.27E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-25743 | 11 | 5389716 | 4.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-37149 | 11 | 12717282 | 3.46E-05 | No | - | | - | | | - |
| BTB-00460506 | 11 | 12947549 | 4.92E-05 | No | - | | - | | | - |
| Hapmap48102-BTA-85468 | 11 | 12970800 | 4.14E-05 | No | - | | - | | | - |
| BTB-00462448 | 11 | 15814741 | 5.70E-05 | No | - | | - | | | - |
| BTB-00466557 | 11 | 23176087 | 6.23E-05 | No | - | | - | | | - |
| BTB-00475139 | 11 | 60203243 | 6.33E-05 | No | - | | - | | | - |
| Hapmap35713-SCAFFOLD296111\_2548 | 11 | 68592752 | 4.64E-05 | No | - | | - | | | - |
| Hapmap40038-BTA-102170 | 11 | 70879221 | 4.45E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-90250 | 11 | 74354594 | 3.81E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-8919 | 11 | 77560928 | 4.57E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-61477 | 11 | 78001260 | 4.26E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-5662 | 11 | 83028893 | 4.05E-05 | No | - | | - | | | - |
| BTA-108440-no-rs | 11 | 84083499 | 6.16E-05 | No | - | | - | | | - |
| BTA-26840-no-rs | 11 | 84784082 | 4.10E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116569 | 11 | 86751976 | 8.17E-05 | Yes | ROCK2, KCNF1, PQLC3, ATP6V1C2, C2orf50 | | - | | | - |
| ARS-BFGL-NGS-45263 | 11 | 88621486 | 4.17E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-68659 | 11 | 88744811 | 3.98E-05 | No | - | | - | | | - |
| BTA-118582-no-rs | 11 | 91501099 | 3.48E-05 | No | - | | - | | | - |
| BTA-69403-no-rs | 11 | 105371400 | 4.98E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-25386 | 11 | 107153765 | 5.29E-05 | No | - | | - | | | - |
| BTA-53873-no-rs | 12 | 9754433 | 6.37E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-115282 | 12 | 21157380 | 4.29E-05 | No | - | | - | | | - |
| Hapmap56571-rs29020869 | 12 | 23090031 | 3.57E-05 | No | - | | - | | | - |
| Hapmap39051-BTA-117620 | 12 | 24803254 | 3.65E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-12462 | 12 | 24824923 | 4.02E-05 | No | - | | - | | | - |
| BTA-18613-no-rs | 12 | 30751569 | 3.64E-05 | No | - | | - | | | - |
| BTB-01438340 | 12 | 45358430 | 3.52E-05 | No | - | | - | | | - |
| BTB-00491672 | 12 | 46589464 | 4.20E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-58817 | 12 | 46638109 | 3.47E-05 | No | - | | - | | | - |
| BTB-00776345 | 12 | 47985472 | 4.16E-05 | No | - | | - | | | - |
| Hapmap43279-BTA-50109 | 12 | 48162793 | 3.64E-05 | No | - | | - | | | - |
| Hapmap41810-BTA-26946 | 12 | 55410460 | 3.70E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-8701 | 12 | 79374370 | 4.65E-05 | No | - | | - | | | - |
| Hapmap52431-ss46526792 | 13 | 533391 | 3.56E-05 | No | - | | - | | | - |
| Hapmap26161-BTA-151057 | 13 | 739720 | 4.07E-05 | No | - | | - | | | - |
| Hapmap27855-BTA-123415 | 13 | 806792 | 4.98E-05 | No | - | | - | | | - |
| Hapmap32862-BTA-159304 | 13 | 1633474 | 3.55E-05 | No | - | | - | | | - |
| BTA-16874-no-rs | 13 | 1735034 | 3.49E-05 | No | - | | - | | | - |
| Hapmap61019-rs29009751 | 13 | 4693551 | 5.89E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-119032 | 13 | 9623038 | 3.61E-05 | No | - | | - | | | - |
| Hapmap31057-BTA-115291 | 13 | 20457510 | 4.00E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-3658 | 13 | 22868297 | 3.68E-05 | No | - | | - | | | - |
| BTA-112161-no-rs | 13 | 22904772 | 4.41E-05 | No | - | | - | | | - |
| Hapmap39219-BTA-31890 | 13 | 23529663 | 3.60E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111594 | 13 | 26496734 | 5.48E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-101633 | 13 | 30310253 | 5.66E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-33873 | 13 | 33763853 | 3.56E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-32007 | 13 | 34017769 | 4.98E-05 | No | - | | - | | | - |
| BTB-01342926 | 13 | 35309000 | 5.66E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-36574 | 13 | 40031719 | 4.99E-05 | No | - | | - | | | - |
| BTA-32982-no-rs | 13 | 56402912 | 3.95E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-22052 | 13 | 61559991 | 3.99E-05 | No | - | | - | | | - |
| Hapmap55254-rs29014939 | 13 | 69042143 | 6.60E-05 | No | - | | - | | | - |
| BTA-59658-no-rs | 13 | 76738443 | 3.51E-05 | No | - | | - | | | - |
| UA-IFASA-9680 | 13 | 79546003 | 5.24E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-36793 | 13 | 80239131 | 8.60E-05 | Yes | ATP9A, NFATC2, SALL4 | | ATP9A | | | Yes |
| ARS-BFGL-NGS-48534 | 13 | 81379580 | 3.88E-05 | No | - | | - | | | - |
| BTA-34052-no-rs | 13 | 81417910 | 5.93E-05 | No | - | | - | | | - |
| BTA-23977-no-rs | 13 | 82464169 | 3.97E-05 | No | - | | - | | | - |
| BTA-29190-no-rs | 13 | 82957975 | 3.62E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-56163 | 13 | 83202886 | 5.20E-05 | No | - | | - | | | - |
| Hapmap33459-BTC-069647 | 14 | 6486431 | 6.12E-05 | No | - | | - | | | - |
| Hapmap39020-BTA-35975 | 14 | 12901291 | 4.94E-05 | No | - | | - | | | - |
| Hapmap33173-BTC-073249 | 14 | 27896353 | 3.80E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116559 | 14 | 28201349 | 4.20E-05 | No | - | | - | | | - |
| UA-IFASA-8173 | 14 | 43353000 | 3.60E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113927 | 14 | 51396430 | 8.83E-05 | Yes | - | | - | | | - |
| ARS-BFGL-NGS-112566 | 14 | 59398170 | 3.96E-05 | No | - | | - | | | - |
| Hapmap54796-rs29014519 | 14 | 73941140 | 4.55E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-118668 | 14 | 80723890 | 3.54E-05 | No | - | | - | | | - |
| UA-IFASA-6257 | 14 | 83988724 | 6.05E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113417 | 15 | 21732355 | 5.13E-05 | No | - | | - | | | - |
| Hapmap52669-rs29014752 | 15 | 22542686 | 3.73E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-20519 | 15 | 22620312 | 4.51E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-16495 | 15 | 23643505 | 3.99E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-118826 | 15 | 35025637 | 3.76E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-17983 | 15 | 54769019 | 3.73E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-19286 | 15 | 54803685 | 6.11E-05 | No | - | | - | | | - |
| BTB-00607669 | 15 | 59020999 | 3.59E-05 | No | - | | - | | | - |
| BTA-96695-no-rs | 15 | 60194965 | 4.99E-05 | No | - | | - | | | - |
| BTB-00566504 | 15 | 60579627 | 4.48E-05 | No | - | | - | | | - |
| BTB-00611605 | 15 | 67486632 | 4.14E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-103106 | 15 | 68288320 | 4.21E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-19590 | 15 | 68444035 | 4.04E-05 | No | - | | - | | | - |
| Hapmap40672-BTA-121035 | 15 | 73432445 | 4.30E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113995 | 15 | 78401390 | 4.13E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-86653 | 16 | 12483223 | 4.97E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-35246 | 16 | 20731806 | 4.29E-05 | No | - | | - | | | - |
| BTB-01475457 | 16 | 21326517 | 7.29E-05 | Yes | - | | H3F3B | | | Nearest feature is > 25000 bp before marker |
| BTB-00629775 | 16 | 21708659 | 6.21E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-55380 | 16 | 21821449 | 3.56E-05 | No | - | | - | | | - |
| Hapmap47933-BTA-38363 | 16 | 29812601 | 7.17E-05 | Yes | H3F3A, H3F3B, TMEM63A, LIN9, SDE2, EPHX1 | | ESRRG | | | Marker is > 5000 bp <=25000 bp Before Feature |
| ARS-BFGL-NGS-114924 | 16 | 46093561 | 3.70E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-1639 | 16 | 58707106 | 4.68E-05 | No | - | | - | | | - |
| BTB-01584700 | 16 | 79161508 | 5.06E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-52551 | 16 | 80859590 | 7.10E-05 | Yes | NR5A2 | | NR5A2 | | | Yes |
| BTA-89511-no-rs | 17 | 3099005 | 3.67E-05 | No | - | | - | | | - |
| BTA-41349-no-rs | 17 | 4265936 | 3.86E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-94455 | 17 | 8800578 | 4.58E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-43717 | 17 | 9392845 | 3.83E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-51247 | 17 | 10380674 | 4.19E-05 | No | - | | - | | | - |
| Hapmap52011-BTA-40675 | 17 | 22972193 | 3.50E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-18831 | 17 | 26010339 | 4.32E-05 | No | - | | - | | | - |
| BTA-46662-no-rs | 17 | 26712567 | 3.82E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-108089 | 17 | 40804507 | 3.61E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-107312 | 17 | 53797095 | 5.12E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-52835 | 17 | 68545781 | 4.87E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-109830 | 17 | 69312539 | 4.18E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-97892 | 18 | 1363868 | 4.36E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116116 | 18 | 2004632 | 3.92E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-100294 | 18 | 5405616 | 4.35E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-93178 | 18 | 6961838 | 4.78E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112554 | 18 | 7014208 | 5.04E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-1116 | 18 | 9539002 | 3.51E-05 | No | - | | - | | | - |
| Hapmap47288-BTA-42323 | 18 | 10852558 | 7.04E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-23457 | 18 | 16515915 | 5.79E-05 | No | - | | - | | | - |
| Hapmap23161-BTA-162019 | 18 | 27281676 | 3.97E-05 | No | - | | - | | | - |
| BTB-01588251 | 18 | 45474850 | 4.30E-05 | No | - | | - | | | - |
| ARS-USMARC-Parent-AY863214-rs17871744 | 18 | 46647177 | 5.25E-05 | No | PSENEN | | - | | | - |
| ARS-BFGL-NGS-14927 | 18 | 46677643 | 4.47E-05 | No | - | | - | | | - |
| BTA-118931-no-rs | 18 | 52024379 | 7.13E-05 | Yes | BSP1, BSP3, BSP5, PLAUR, ETHE1, LYPD3, CADM4, ZNF428, TEX101, CD177, ZNF576, IRGQ, PINLYP, XRCC1, CXCL17 | | - | | | - |
| ARS-BFGL-NGS-35636 | 18 | 62467006 | 6.79E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-73221 | 18 | 62804417 | 4.45E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-58016 | 18 | 65604707 | 5.10E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-37417 | 19 | 5825105 | 4.20E-05 | No | - | | - | | | - |
| Hapmap32837-BTA-149843 | 19 | 6106937 | 4.76E-05 | No | - | | - | | | - |
| UA-IFASA-6719 | 19 | 8597725 | 5.72E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-102654 | 19 | 11401381 | 3.92E-05 | No | - | | - | | | - |
| UA-IFASA-5958 | 19 | 13457401 | 3.71E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116379 | 19 | 33598629 | 3.67E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-114597 | 19 | 56533680 | 5.45E-05 | No | - | | - | | | - |
| Hapmap30525-BTA-133378 | 19 | 58642115 | 4.67E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-28479 | 20 | 4425557 | 3.94E-05 | No | - | | - | | | - |
| BTB-00144202 | 20 | 4713452 | 4.26E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-4292 | 20 | 6534735 | 4.28E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-98789 | 20 | 7103987 | 4.17E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-5131 | 20 | 23085736 | 4.13E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-107265 | 20 | 25760711 | 3.68E-05 | No | - | | - | | | - |
| Hapmap51975-BTA-23912 | 20 | 28773049 | 3.69E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-14378 | 20 | 29322034 | 4.17E-05 | No | - | | - | | | - |
| Hapmap51988-BTA-92052 | 20 | 43489592 | 5.12E-05 | No | - | | - | | | - |
| Hapmap55468-rs29016426 | 20 | 49251437 | 3.51E-05 | No | - | | - | | | - |
| BTB-01953992 | 20 | 49529972 | 3.55E-05 | No | - | | - | | | - |
| UA-IFASA-2314 | 20 | 59514189 | 4.60E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111615 | 20 | 62077963 | 3.63E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-110376 | 20 | 63739292 | 3.79E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-73082 | 21 | 2642904 | 3.94E-05 | No | - | | - | | | - |
| BTA-21042-no-rs | 21 | 4240549 | 3.73E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-59613 | 21 | 13961617 | 5.41E-05 | No | - | | - | | | - |
| Hapmap30803-BTA-135661 | 21 | 14304199 | 3.86E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-112137 | 21 | 16341393 | 4.28E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-63590 | 21 | 19953173 | 3.96E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-109972 | 21 | 25057520 | 3.68E-05 | No | - | | - | | | - |
| Hapmap60593-rs29025761 | 21 | 27328130 | 5.10E-05 | No | - | | - | | | - |
| BTA-68607-no-rs | 21 | 32880526 | 4.23E-05 | No | - | | - | | | - |
| Hapmap53974-rs29024107 | 21 | 35522405 | 5.26E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-29881 | 21 | 35640578 | 3.62E-05 | No | - | | - | | | - |
| Hapmap58716-rs29021182 | 21 | 36554417 | 5.02E-05 | No | - | | - | | | - |
| BTB-00822762 | 21 | 49165337 | 6.57E-05 | No | - | | - | | | - |
| BTB-01690594 | 21 | 51176485 | 4.09E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-118961 | 21 | 62089501 | 5.60E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-34585 | 21 | 62245543 | 3.47E-05 | No | - | | - | | | - |
| Hapmap52873-ss46526026 | 21 | 66064177 | 8.29E-05 | Yes | SETD3, CCDC85C, BCL11B | | SETD3 | | | Yes |
| ARS-BFGL-NGS-30499 | 22 | 3046992 | 4.20E-05 | No | - | | - | | | - |
| Hapmap44095-BTA-55125 | 22 | 8626195 | 4.45E-05 | No | - | | - | | | - |
| BTB-01887959 | 22 | 9222993 | 3.88E-05 | No | - | | - | | | - |
| BTB-00839323 | 22 | 19168846 | 4.39E-05 | No | - | | - | | | - |
| Hapmap40022-BTA-70534 | 22 | 19807636 | 3.53E-05 | No | - | | - | | | - |
| UA-IFASA-6532 | 22 | 21770149 | 3.60E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-113670 | 22 | 29803741 | 3.70E-05 | No | - | | - | | | - |
| Hapmap25256-BTA-136520 | 22 | 32390645 | 3.61E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-100820 | 22 | 37615930 | 3.75E-05 | No | - | | - | | | - |
| BTA-106477-no-rs | 22 | 42111462 | 4.54E-05 | No | - | | - | | | - |
| UA-IFASA-6042 | 22 | 43595820 | 3.45E-05 | No | - | | - | | | - |
| Hapmap30494-BTA-122955 | 22 | 43862404 | 4.40E-05 | No | - | | - | | | - |
| Hapmap61036-rs29016268 | 22 | 44795825 | 5.12E-05 | No | - | | - | | | - |
| Hapmap60563-ss46526220 | 22 | 54256311 | 4.81E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-116073 | 22 | 55063369 | 3.60E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-103160 | 23 | 2247046 | 3.64E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-67812 | 23 | 3626219 | 3.61E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-35859 | 23 | 4590972 | 3.94E-05 | No | - | | - | | | - |
| Hapmap58570-ss46526027 | 23 | 7132129 | 5.18E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111735 | 23 | 12997137 | 9.33E-05 | Yes | KCNK17 | | DNAH8 | | | Yes |
| ARS-BFGL-NGS-24521 | 23 | 13025914 | 3.78E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-25325 | 23 | 14981935 | 5.82E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-29493 | 23 | 20374550 | 3.58E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-25108 | 23 | 21315975 | 3.87E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-117031 | 23 | 25222914 | 7.90E-05 | Yes | BOLA-DQA2, BOLA-DQA5, BOLA-DQB, GCM1, ICK, FBXO9 | | ELOVL5 | | | Yes |
| BTA-28538-no-rs | 23 | 30595850 | 3.66E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-31956 | 23 | 36112949 | 4.25E-05 | No | - | | - | | | - |
| UA-IFASA-4463 | 23 | 38810995 | 3.51E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-77290 | 23 | 41496176 | 4.68E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-83700 | 23 | 47916657 | 3.67E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-4455 | 23 | 52091670 | 4.06E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-114852 | 24 | 2498535 | 4.10E-05 | No | - | | - | | | - |
| BTA-115451-no-rs | 24 | 8540940 | 7.80E-05 | Yes | - | | - | | | - |
| Hapmap38596-BTA-41284 | 24 | 24220391 | 3.77E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-27451 | 24 | 26435436 | 4.82E-05 | No | - | | - | | | - |
| BTA-112410-no-rs | 24 | 27475390 | 5.65E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-103621 | 24 | 27808368 | 4.03E-05 | No | - | | - | | | - |
| UA-IFASA-4800 | 24 | 31524371 | 4.31E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-14224 | 24 | 32032423 | 3.82E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-13986 | 24 | 50027354 | 4.85E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111274 | 24 | 50306117 | 3.48E-05 | No | - | | - | | | - |
| BTA-58638-no-rs | 24 | 53790841 | 3.47E-05 | No | - | | - | | | - |
| BTB-00891813 | 24 | 56487933 | 5.89E-05 | No | - | | - | | | - |
| BTB-00891865 | 24 | 56535985 | 3.46E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-35262 | 24 | 56564480 | 3.45E-05 | No | - | | - | | | - |
| Hapmap36042-SCAFFOLD31537\_3371 | 25 | 3055650 | 4.81E-05 | No | - | | - | | | - |
| Hapmap31994-BTC-065943 | 25 | 5385729 | 3.80E-05 | No | - | | - | | | - |
| Hapmap32974-BTC-065967 | 25 | 5408004 | 3.45E-05 | No | - | | - | | | - |
| Hapmap33111-BTC-021675 | 25 | 6496284 | 3.45E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-33705 | 25 | 28413439 | 4.48E-05 | No | - | | - | | | - |
| ARS-BFGL-BAC-47313 | 25 | 41213862 | 3.91E-05 | No | - | | - | | | - |
| BTB-01806486 | 26 | 4754531 | 3.49E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-73895 | 26 | 6948695 | 4.82E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-106308 | 26 | 7062184 | 3.57E-05 | No | - | | - | | | - |
| BTB-00934189 | 26 | 25355925 | 3.65E-05 | No | - | | - | | | - |
| Hapmap38330-BTA-61119 | 26 | 30903998 | 3.93E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-7574 | 26 | 37441511 | 6.05E-05 | No | - | | - | | | - |
| Hapmap41035-BTA-61488 | 26 | 37668932 | 3.93E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-10035 | 26 | 39952154 | 5.69E-05 | No | - | | - | | | - |
| BTA-100861-no-rs | 26 | 40648090 | 4.56E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-118736 | 26 | 40959791 | 5.85E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-10498 | 26 | 41341146 | 3.64E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-35886 | 26 | 45642121 | 3.80E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-11088 | 27 | 22779747 | 3.73E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-27731 | 27 | 26838250 | 4.53E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-40430 | 27 | 29934809 | 3.93E-05 | No | - | | - | | | - |
| Hapmap51137-BTA-107964 | 27 | 30797409 | 3.82E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-35188 | 27 | 36285734 | 4.03E-05 | No | - | | - | | | - |
| Hapmap59081-rs29017657 | 27 | 43730070 | 4.14E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-2154 | 28 | 3976460 | 5.24E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-114347 | 28 | 12126849 | 4.10E-05 | No | - | | - | | | - |
| Hapmap50751-BTA-64830 | 28 | 13270960 | 8.20E-05 | Yes | ZNF248, ZNF25 | | - | | | - |
| BTA-64815-no-rs | 28 | 13659540 | 3.96E-05 | No | - | | - | | | - |
| Hapmap43635-BTA-63570 | 28 | 15502546 | 3.56E-05 | No | - | | - | | | - |
| Hapmap42306-BTA-73982 | 28 | 16753454 | 4.29E-05 | No | - | | - | | | - |
| BTB-01128833 | 28 | 20792415 | 3.64E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-27870 | 28 | 33632545 | 5.02E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-6902 | 28 | 34929321 | 4.65E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-15178 | 28 | 41426446 | 6.88E-05 | No | - | | - | | | - |
| BTB-00992523 | 28 | 42219956 | 5.41E-05 | No | - | | - | | | - |
| Hapmap58534-rs29018685 | 29 | 724198 | 5.23E-05 | No | - | | - | | | - |
| UA-IFASA-9243 | 29 | 3870348 | 3.88E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-3437 | 29 | 9454029 | 3.48E-05 | No | - | | - | | | - |
| BTA-105944-no-rs | 29 | 14871102 | 3.75E-05 | No | - | | - | | | - |
| BTB-01442313 | 29 | 18519155 | 4.65E-05 | No | - | | - | | | - |
| BTB-01654014 | 29 | 20077616 | 6.02E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-115158 | 29 | 21828399 | 6.08E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-18922 | 29 | 21930571 | 3.91E-05 | No | - | | - | | | - |
| UA-IFASA-7213 | 29 | 30614026 | 4.49E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-101872 | 29 | 35924543 | 3.48E-05 | No | - | | - | | | - |
| ARS-BFGL-NGS-111347 | 29 | 48285322 | 4.56E-05 | No | - | | - | | | - |

Categories that are included in the "Inside?" column: Yes: Marker is located in the closest feature; Marker is <= 2500 bp Before Feature: The closest feature is located after the marker position and is within 2,500 base pairs (bp); Marker is > 5000 bp <=25000 bp Before Feature: The closest feature is located before the marker position and is between 5,000 bp and 25,000 bp from the marker; Nearest feature is > 25,000 bp before marker: The closest feature is located before the marker position and is more than 25,000 bp from the marker;