Online Table A: SNPs in the 3,011 marker map
Information content
(SIC) for different mixture scenarios (to be conservative, assumed
population frequencies were brought closer by adding 1 to both the minor &
major allele counts) West African (no Botswana)
European American Amerindian
East Asian Beni Nigerian Ghana Cameroon
Senegal Botswana European Americans
from Utah (CEPH) European Americans from Baltimore
European Americans from Chicago Zapotec Amerindians from
Mexico Cantonese Chinese
SNP ID (dbSNP ID provided if available) Submitter Chromosome
Interpolated deCODE Genetic Position (updated based on HG16 public genome
assembly) Physical Position in HG16 Direction of strand in HG16
Site of revalidation genotyping FASTA sequence, length 201bp
(variant whose frequency is quoted is given to the right of the '/') SNP
(same direction as FASTA; variant whose frequency is quoted is given to the
right of the '/') Notes about possible mapping problems rank in map
(labeled 'extended_map' if not in 2,154 well-spaced set) 21%
European, 79% West African 50% European, 50% Amerindian 50% West
African, 50% Amerindian 50% European, 50% East Asian Frequency n
Frequency n Frequency n Frequency n
Frequency n Frequency n Frequency n
Frequency n Frequency n Frequency n
Frequency n Frequency n Frequency n
Frequency n
rs3737720 AB_ASSAYS_ON_DEMAND 1 1.5172 1147858 reverse LGD

AGCCCTGGGCAGAGGAACTGGGGCCATCCTCTGCTCTCCCATCTTCTGTTGCTGACCTGGGAAAAGGGGTTGAAT
AACTTGAGCACCCTAGGATCCTGCA[C/
T]TGAGGACCCGGGCTGTGGGGAGGTGTGGGCATGGCCTCCCTGCTGGGGGCTGGACCCTGGCTGAAGCACCCAC
CTTCTCCCTGGCCCCTCCGTCAGAAGC C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.302 0.117 0.128 0.401 84.7% 196 9.6% 156
44.8% 58 81.2% 80 NA 0 89.4% 66
85.0% 40 81.1% 90 86.8% 38 NA 0 12.8% 78
6.4% 78 44.8% 58 81.2% 80
rs1240747 AB_ASSAYS_ON_DEMAND 1 1.6663 1281205 reverse LGD

CCTGCCTCGGCCTCCCAAAGTTCTGGGATTACAAGTGTGAGCCACTGCACCCAGCCTCAACAGTTAATTTTCTAC
ATTTGCTTTAGTGATAGCTTTACTT[C/
T]CTCTTATGGAGAAATTAGGGGAATTCTGGCCCCTTTAGTCTGAAATGACTGGCGAGTTTTGCGGCATGTACTG
ACTGAGGACCATGGCCGTGACACGGTC C/T SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps extended_map 0.132 0.025
0.089 0.032 31.8% 192 83.3% 156 67.3% 52 64.9% 74

NA 0 31.2% 64 31.6% 38 32.2% 90
26.2% 42 NA 0 84.6% 78 82.1% 78 67.3% 52
64.9% 74
rs1240709 TSCAF 1 1.6753 1289239 forward MIT
GCCTGGGGGGAGGGAAGGCCTAGGAGAATCCTATCTGGGTGGCACAGCAGAGGACTTCCAGGCAGGATGCTGAAG
GATAAATGTGGACACGGGTGAGGGA[A/
G]GCACCTGTGGAATCTGCAGGGAGGCTGGACTCCAGTCCTGATGTCGGCCCGGGGAACCAAACACCTTGTTCAG
GGTCCTTGGTCACCACCCTGACTGAGC A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 61 0.372 0.366 0.016
0.494 96.4% 302 20.6% 262 89.7% 58 97.4% 78
99.1% 106 95.5% 66 94.7% 38 94.6% 92 95.2% 42
16.7% 108 26.9% 78 19.7% 76 89.7% 58
97.4% 78
CV98514 APPLERA_RESEQUENCING LGD
AGCCGCGCGGCATTCTGGGGCCGGAAGTGGGGTGCACGCTTCGGGTTGGTGTCATGGCAGCTGCGGGGAGCCGCA
AGAGGTAAGCCGCGGGTCCGAGGGC[C/
T]GATTTGGCCTCCCGGTGGGTGTCTGTATCCAAGGGGGCTTTTCTTGCTCCTCTCAGCGGGGCTGGGGCGAGCT
GGGCGTGCGGGCAGCTGTGACTCCTGC C/T does not map reliably to HG16
public assembly (physical position was chr1: 1,697,226 in Celera R27
assembly, which interpolates to chr1: 1,906,323 in HG16 and 2.3655 cM in
the deCODE genetic map) 496 0.296 0.025 0.273 0.061 14.1% 198
88.3% 154 74.1% 58 63.7% 80 NA 0
9.1% 66 15.0% 40 17.4% 92 7.1% 42 NA 0
85.9% 78 90.8% 76 74.1% 58 63.7% 80
rs1563468 TSCAF 1 3.16 2616726 forward MIT
CGTTTCCCCCCGCCGGTCATGTCGACAAGCACCATGGGTTTCCTGACAGACGGAAATATCAATCCTTAGGTACAG
GGACAAAGCAGGTTTTAAACTTTAA[C/
T]GAGAGGCTTTAATGGAAATAAAACGTAAAATTCCTCTTCAAATGGAGGTGCTTCTGTTTTATCAGAGAAAAAG
TACCCTAAATAATAAATCGACGTCGTG C/T extended_map 0.164 NA
NA NA 22.7% 132 79.9% 154 NA 0 NA
0 22.7% 132 NA 0 NA 0 NA 0
NA 0 79.9% 154 NA 0 NA 0 NA
0 NA 0
rs897634 TSCAF 1 3.1621 2618675 forward MIT
TGGCCGTGTTATCCCCCCTCGGGGGGAACCTCTGTAGACCTCTGTGCTGCTGAGAGGAGCATCGTCTCCACCGCC
CAACAGGCTATTTCTGCGCGAATGC[C/
T]GTCTTCTTCATCTTGCTTGATTGTCACAGTGCCTGCGTGAGACCCCAATGGTCCCCCCATCACGCAGGCGGGG
CAGCCTCAGAGAGGCAGAACCAGCGGG C/T 885 0.249 0.011
0.244 0.065 10.5% 306 76.5% 264 65.5% 58 47.4% 78
12.0% 108 7.6% 66 7.5% 40 12.0% 92
4.8% 42 77.7% 112 73.7% 76 77.6% 76 65.5% 58
47.4% 78
rs905135 AB_ASSAYS_ON_DEMAND 1 3.569 2982467 reverse LGD

GAGCCTTCTGCAGCATTGACTCTGCACTGAAAGATGACAGTGTCAAAGAAAACTCAGAAGGAAGGGAAGGGAGAC
GCCCCTCCTCTAACCGCCCTAATAC[G/

T]ACCACGCCTCTCACTGCACCTGCAGGGGAGCCCTCACTACTCCTTGGAGTGACCCCGGGAGCTTGGGCTAGCG
CTGGCTGCCCACCACCCTCGTGCCCCT G/T 1,380 0.214 0.109
0.074 0.085 29.8% 198 93.6% 156 62.1% 58 66.7% 78
NA 0 37.9% 66 25.0% 40 26.1% 92
21.4% 42 NA 0 96.2% 78 91.0% 78 62.1% 58
66.7% 78
rs2254530 APPLERA_RESEQUENCING 1 4.1948 3428818 reverse MIT

CTCTTTCAGCTTCATCAGGATCTCAAAGTTCTCCCGGCCTCGCACCTGAGCACAGAGGAGCAGATCTCTGCCCAC
GTGCCCCAGACCCCCACGGGAGGGG[G/
T]GTGGCCGCAGCCTCAGGAGGACCTGGGCTTGGCAAAGCATCTGTCCTTTCTGGGGGTTCCCCAGCACCCCAGA
GGCTCAGGATCCCCTGATCTTCTTTCC G/T 1,149 0.231 0.113
0.060 0.121 8.8% 148 71.5% 144 31.5% 54 30.3% 76
NA 0 2.0% 50 0.0% 8 13.3% 90
17.6% 34 NA 0 75.0% 68 68.4% 76 31.5% 54
30.3% 76
CV1944294 AB_ASSAYS_ON_DEMAND 1 6.7986 4380773 forward LGD

GATCAATACAGAAGATCCATAAAAGCCTTGAGATGAGAGTTTTTCTCCATTCTGGGCCAGATCAAATTCTTAGGT
GGCCCTCTTTCCATCTGTACCCGGA[A/
G]GCTATCACTTGCTCAGAGCAAGCCAAGGAATCCCGTCTTCCTCTCTCTGATGCATGGGTACACTTTCACAGGC
AGTTCAGACCTGGCATTTTCTCTTGCC A/G 1,957 0.134 0.000
0.203 0.055 41.4% 198 91.6% 154 91.4% 58 70.0% 80
NA 0 34.8% 66 47.5% 40 43.5% 92
57.5% 40 NA 0 96.2% 78 86.8% 76 91.4% 58
70.0% 80
rs1534997 AB_ASSAYS_ON_DEMAND 1 11.0976 5953261 forward LGD

TGTATTCTCAAATCCATCCCAAAGACAAGAAAATGGCTGGATGAGAAATTCAGTTTCCTGTTCCTAGAGATAAGC
ACTATGATTGCACCGTTTAACAGGC[A/
G]GTCCTCACCTCCTTCCTGTAGGTGGAGGGCTACCTCCTTGCAGGGATGGCAAATCCCCACACCAAGCCTCTCT
TCTACCCTCTTCTCCCTCAAAGAGAAT A/G 308 0.234 0.057
0.140 0.023 79.6% 196 12.3% 154 36.2% 58 26.3% 80
NA 0 78.8% 66 85.0% 40 77.8% 90
81.0% 42 NA 0 16.7% 78 7.9% 76 36.2% 58
26.3% 80
rs14281 AB_ASSAYS_ON_DEMAND 1 11.3229 5991213 forward LGD
CAACTACCTAAGGCAGGAAGAAAGTGCAGTGAAGGGACAGTGGTGTGCTGTGCGTATCGTGGGGGTACTCCTAAG
CAGCTAGCTGTTGGCGAGATCTTAC[A/
C]AAGCCTGATCGGCTAACGCAGCTTCCTGGTTTAGGAACATTTTCCCCGGTCGTATCAATCCCCCAGGTTGGTA
AATGAACAGAAGGGATGAATAAAGCCT A/C extended_map 0.078
0.012 0.203 0.000 45.9% 196 9.1% 154 1.7% 58
8.7% 80 NA 0 48.5% 66 55.0% 40 40.0% 90
59.5% 42 NA 0 7.7% 78 10.5% 76
1.7% 58 8.7% 80
rs3007429 AB_ASSAYS_ON_DEMAND 1 11.771 6261238 forward LGD

AGAGATGGCCCAAACCTGGCCATTCCCTGGGGCATCCTGGTCTGCCGCTGCTCACCCCCAAAGCATTGCCCAGGA
GAATAGGTGATTGCCTCTCCCATTA[C/
T]TCACATCCTGCCCGTCCCTTCTCCATGGGGGCCTCAGGTCCACCCTTTCCTCTCCCTGGTCTTCATCTCACCA
CCCCTCCCTCCACACACGCATACCCTG C/T 853 0.159 0.000
0.261 0.133 60.8% 194 6.5% 154 5.2% 58 42.5% 80
NA 0 63.6% 66 63.2% 38 57.8% 90
69.0% 42 NA 0 7.7% 78 5.3% 76 5.2% 58
42.5% 80
CV513970 AB_ASSAYS_ON_DEMAND 1 16.6465 9503851 forward LGD

AAAAGAGGCCCAACCAGAAATATTAAGTAGGGGCAGTGGGGCCCAGCGTGGCGGGGCACACTGGATGCCCTGCCG
GCTCACCCCAAACCTACATGGCTCT[C/
T]GTAAGGACCAACGACAGAAGCAAGCGAGAGTTGCTTTCAAGAAACGGCTGGGCGCAGTGGCTCACGCCTGTAA
TCCCAGCACTTTGGGAGGCCAAGACGG C/T 1,659 0.172 0.109
0.044 0.003 63.1% 198 6.4% 156 37.9% 58 9.2% 76
NA 0 74.2% 66 60.0% 40 56.5% 92
69.0% 42 NA 0 3.8% 78 9.0% 78 37.9% 58
9.2% 76
rs1234694 AB_ASSAYS_ON_DEMAND 1 16.683 9712866 forward LGD

TCCCGCGGCGGCCGGGCTCCAACAGGCCCCAATTGCCACCAGAGGTAGCCGTAAACCCATGGTCCCCGAAACTCC
TTCCGGGCCTACCTGACAAAAACTG[A/
G]GACAACCTCCTTAGGCCCCCGGGATTCCCCCTGTGCCGCCTGACCGCCCGCCAGTCCCAGAGTTTAGGGCCAG
GGGCCCCGCCTACCTGAGGGCACTGGC A/G 1,411 0.198 0.019
0.165 0.034 84.2% 196 23.1% 156 37.9% 58 43.8% 80
NA 0 84.8% 66 89.5% 38 81.5% 92
90.5% 42 NA 0 20.5% 78 25.6% 78 37.9% 58
43.8% 80
rs1343704 AB_ASSAYS_ON_DEMAND 1 18.3268 10758519
forward LGD
CCCAGGAGGCGGAGGTTGCAGTGAGCATTGTGAAGGGAATGAAGATACCTCACATCCCAAAACGGAAACCCAGGG
GATGGACCAGTGTTTGCAGAGGAAG[G/
T]TCCAGCCCTCTCTCTACTCCCATTCCTTGGGCAGCTCCCACCATGTCTGGGTCTTCCCTCTGCCTCTGTTGAA
GCCCCTAAATGTGGACCCCAGGGCAAC G/T extended_map 0.221
0.002 0.368 0.052 14.8% 196 79.2% 154 84.5% 58
53.7% 80 NA 0 12.1% 66 10.0% 40 18.9% 90
4.8% 42 NA 0 82.1% 78 76.3% 76
84.5% 58 53.7% 80
CV1211341 AB_ASSAYS_ON_DEMAND 1 18.4012 10779512
forward LGD
AGATCTGTGGTCCAGTCTCCCTCTGGCCTTATAATTATCTTCCTGAGTTACTTACCTTCTTTGAGACAGTGTTTG
CTTGTCCTCCCAACTAGCCTGAAAA[C/
G]TTCTTAGGAGAAGGGCCAGCCTTTGGGGTCATGTTCCTGTGTGACCTGTCTCTAGGAACTTCTGCATACCCAG
CTCTGCCCACTTGGAGCTAGTGTCCAG C/G extended_map 0.306
0.028 0.577 0.008 2.0% 198 66.7% 156 84.5% 58

56.2% 80 NA 0 0.0% 66 0.0% 40 4.3% 92
0.0% 42 NA 0 73.1% 78 60.3% 78
84.5% 58 56.2% 80
rs2273348 AB_ASSAYS_ON_DEMAND 1 18.4335 10788623
forward LGD
GAGGATTGTAAGATAAAATGTTAAACACACTTAGAAAAGATAGCGGCAGGGTGTGTTCATGAAATCCTTTTGTCT
TGTTGAAGTCTTTGGCCCTTAGTGC[A/
G]TGCTGAATATTTTATGCTTGTTTGAAATATTTAGTTTATTACTTCTCCAAACTAAACCTTTGTTCATTTTGTT
CTTCCTTTTCGCTATGGATGGAAAAGA A/G extended_map 0.28
0.000 0.416 0.032 12.6% 198 84.4% 154 86.2% 58
66.2% 80 NA 0 9.1% 66 2.5% 40 19.6% 92
28.6% 42 NA 0 83.3% 78 85.5% 76
86.2% 58 66.2% 80
rs1057079 AB_ASSAYS_ON_DEMAND 1 18.8803 10914604
forward LGD
GCCCATTCTGAAAAAAGTATGGAAATAAGCCTCAAAAATGACAATGTGCAGAATAGTTGACACTTACCCCATATG
CCCGACTGTAACTCTCTCCTGCCAT[C/
T]GCAGTTAATTCAGCATCCAGCAGGTCCCTGGCCTTGTCAATGCACTAGAAGAGAAACAACCCTTGGGACTGAG
CTCTGGACTTGGGAGCTTAGGGTTATT C/T 157 0.309 0.011
0.522 0.003 3.5% 198 71.4% 154 82.8% 58 77.5% 80
NA 0 1.5% 66 2.5% 40 5.4% 92
0.0% 42 NA 0 71.8% 78 71.1% 76 82.8% 58
77.5% 80
rs2235666 AB_ASSAYS_ON_DEMAND 1 20.1811 11306308
forward LGD
AGGGGCCCTGGGGCTGGGTGCCTGCCTCGTGCTCCTGCAGAGCGGCTATAAGATTCCCCTGCCCGCAGGGGCCTC
CCTATAGCCCGGGACGGGCTCTGGA[C/
T]ACTTGCACCTTTGGTCCCATGGGTGGGGGACAGGAGCTGCTTCCCAGCTCGACTTCAGCTAGCTGTGTCCCCA
GGCCTGGGCCCAGGGCGCCCTGCGGGC C/T 423 0.295 0.034
0.602 0.006 94.8% 194 26.6% 154 8.9% 56 35.0% 80
NA 0 98.4% 64 97.5% 40 91.1% 90
97.5% 40 NA 0 23.1% 78 30.3% 76 8.9% 56
35.0% 80
rs4846028 APPLERA_RESEQUENCING 1 20.6823 11489045
forward LGD
TCACACAGAATATGTTCACCGCCCCGACCGCCCTGAGTCTTCTCTGTTCTCCTTCCGTGTTCATTCCTCCCCTCT
TCCGGGTTCGTGTCTTTTAAGCTCA[C/
T]TGGGGCTGCCGTGAGGAAGCTGGGTTGTAGGGCAGAATAATGAAGGCAGGAGGGAGCTGGCTGGCCCCGAGCG
TGCAGGGGAAGGAAGGGGAGGGCACGG C/T 1,202 0.162 0.048
0.452 0.026 84.8% 198 30.1% 156 8.6% 58 48.7% 78
NA 0 86.4% 66 80.0% 40 85.9% 92
73.8% 42 NA 0 33.3% 78 26.9% 78 8.6% 58
48.7% 78
rs3765337 AB_ASSAYS_ON_DEMAND 1 21.3316 12052145
forward LGD
CTTTGTTGATTCAGGCATAATCCGCAGTACTTATTGAACTCTTATTGTATGTAGATTATTGTGTAGGGTGCTGAG

GGAGGGCCTTGTGAACAGAAGTGGG[G/
T]CATAAAGAGGTAAGGACAAAATAAATGAAAAGAGATAGTCTTTGCTATCAGGTAACTTACAGCCTCATGTAGG
AATCATGTGGCAACTGTAGACATTTAT G/T 1,462 0.144 0.141
0.013 0.021 39.9% 188 92.0% 150 53.4% 58 80.3% 76
NA 0 48.4% 62 26.3% 38 39.8% 88
31.0% 42 NA 0 91.0% 78 93.1% 72 53.4% 58
80.3% 76
rs371639 AB_ASSAYS_ON_DEMAND 1 23.6746 13182400
forward LGD
GTCAGAAATCAAGTTGCTTTTTTTTTGTATTTATAATTTTTCCAGCAGCAGGGGCCAGGGAAGACCCAGGTTCCC
AGCACCAGATATCTGCACCTGGTGG[C/
T]CTTCAGCGGGGCTCGGTGCTGCAGCAACTGCTGTCACCAGGGCCAGGGTTGTGGTACGGGGAAGTGACCTCGG
GGTGGGGCCTTTGGGGTGGGCAAGGAG C/T 1,843 0.127 0.090
0.018 0.117 17.7% 198 66.7% 156 31.0% 58 26.3% 80
NA 0 16.7% 66 22.5% 40 16.3% 92
22.5% 40 NA 0 60.3% 78 73.1% 78 31.0% 58
26.3% 80
rs2057027 AB_ASSAYS_ON_DEMAND 1 26.0498 14311339
forward LGD
GGCAGCATCTCCTCTTCCCAACACTAGTTGAAGAGGCCATTTTAGAAGAAAATTACACAGATTCATTTCCTCCTT
TACCTTGTGAGCTGCTTGAAGTCAG[A/
T]TGTGCTCTGACTTCTTTTAAGACACAGTGAACATATAGTAAATTGTAAATGTTGACCGATCCAAAGTCCCTGA
AATCAGCCCATGGAGACTCCATTCTGG A/T extended_map 0.106
0.007 0.138 0.001 35.7% 196 0.0% 154 1.7% 58
0.0% 80 NA 0 47.0% 66 34.2% 38 28.3% 92
31.0% 42 NA 0 0.0% 78 0.0% 76
1.7% 58 0.0% 80
rs938253 AB_ASSAYS_ON_DEMAND 1 27.2037 14636649
forward LGD
CCGGGGCTTGCTGTCCCTCCCCTGGGTACCTCCCTTCAGGAGCCTGGCCTTGGGGAGGGGAGGAGATTGTTGCAA
GAGCCAAGACTGGGGGACCTGGCCA[A/
T]TTTTTTCATCTGAAGCTCAAAGACCCAGTTTCAACGCTGTGCCCAATTTCAACTCTGTGTCCACCTGTGAGAC
TATTTGTCCTGACATTTAGTTTGCGAA A/T 669 0.239 0.002
0.341 0.014 2.0% 198 56.5% 154 62.1% 58 42.5% 80
NA 0 1.5% 66 0.0% 40 3.3% 92
0.0% 42 NA 0 48.7% 78 64.5% 76 62.1% 58
42.5% 80
rs2496325 AB_ASSAYS_ON_DEMAND 1 28.0451 15101713
forward LGD
GACCACACAGCTAGAAAATGATAGAGCCAGGACTGAAACCCAGGTCTGTGACTCCAAATCCCGGGCTCTTCCCCT
TCCGGGTTTCCCATCACAGACATCT[A/
G]CTTTCATGTTGGAAAACCTTCTCCAACACCCGCTTCCGTGTTCGTGGCGGATTGTCCATTCATGTCCCCAACC
CCAGCCCCCGTCTCTCCTTTCCCCCAG A/G 941 0.207 0.054
0.519 0.007 94.9% 196 40.3% 154 14.8% 54 30.8% 78
NA 0 98.4% 64 100.0% 40 90.2% 92
100.0% 42 NA 0 31.6% 76 48.7% 78 14.8% 54

30.8% 78
rs6429772 APPLERA_RESEQUENCING 1 28.6127 15418429
forward LGD
CACCAACCGCAGGAAGCAGTTTCTGCTGGACACGGCTGATGTGGCGCTGGCTGAGTGAGTGGCAACCCCGCCCCT
CTGGAAGGATTGGAGAGTTCGCAGC[C/
T]GCCCATAGGTGTGGGTGGCCTGGGGGTCAGGGGTGGAGGTGGAAAGTGGGAGATCCAGGAGGGGAAACCAGAT
GTATTCCCTCTGGAACCTGCATCTGCT C/T 1,599 0.117 0.024
0.312 0.038 71.9% 196 23.0% 152 8.6% 58 6.2% 80
NA 0 68.2% 66 82.5% 40 70.0% 90
57.1% 42 NA 0 26.3% 76 19.7% 76 8.6% 58
6.2% 80
rs6603855 APPLERA_RESEQUENCING 1 29.3712 15841622
forward LGD
GGGAGGTCAGTGAGGTCTGCTCCGGCCAGGGAAGCCTCCTGGCCCTACTTTGGTCCTAGGAGGACCTGGGGTGCT
CAGAATGCGGCCCAGTCCCCGCTTT[C/
T]GCTGCCCAAGCTCCACTCTCAGGGCCGAGGGTGCGGAGAAGGCGGGTGGAGGAACAGGGAGGAAGTGAGCGAG
CCAGGACTCCCTCTCCAGGATCTAGGC C/T 109 0.335 0.009
0.421 0.011 17.7% 198 96.2% 156 91.4% 58 90.0% 80
NA 0 10.6% 66 25.0% 40 19.6% 92
19.0% 42 NA 0 94.9% 78 97.4% 78 91.4% 58
90.0% 80
rs2871775 AB_ASSAYS_ON_DEMAND 1 30.958 16726986
forward LGD
AGACATCTCTAAATCTTTTACATCATCATTATTAAATAGGCAGCAGCAGAAATCAGCATATACCAGCTCTCAAAA
GTATGTGGAAGAAACTACCCTCTCT[A/
G]TTAACCCTTTGTAAAACCATGATGATTTCAACTGGCCAATACCATTGGTATTAGCTGCAGTTTGCCCCTACAG
CTGTTAACATCTGCTTTGCAGGAGGCA A/G 1,751 0.125 0.000
0.181 0.063 11.6% 198 57.1% 156 58.6% 58 27.5% 80
NA 0 12.1% 66 5.0% 40 14.1% 92
4.8% 42 NA 0 65.4% 78 48.7% 78 58.6% 58
27.5% 80
rs109489 TSCAF 1 33.6032 18006103 reverse MIT
CGAGCTAGCTCCCTCTGCCTTCTCAGTCAGGCACCCCGTGTAGGGTGTAACTCCAGGGACTCCACAGCAAGACAC
CAGCTGCCATCTTTGCAGGAAGCCA[A/
G]AGGGGACAAGACCACAGAAATAATTGCAGAGTATGAGCCTGGAGGTTGGAGTCCTAAGCTCCACATGCATAAT
TAAGCTGACTTGTGTTAGGTGAAGGGA A/G 392 0.204 0.053
0.533 0.028 86.7% 308 26.0% 262 5.2% 58 45.0% 80
89.5% 114 85.9% 64 76.3% 38 88.0% 92
88.1% 42 23.6% 110 28.9% 76 26.3% 76 5.2% 58
45.0% 80
rs818965 AB_ASSAYS_ON_DEMAND 1 38.1541 19720000
forward MIT
CATCTCCACTTGACTGAGACTCAGAGAGACTGAAAAACCTCAGTTCTCACAGCCTGGAGGTGCCCAGGGCCAAGT
CCGTCCTGTTTCAGAGTTTCCACCC[A/
G]GGCAGAACCGGAGGCAGGAGGCCCTGGCCTGGCCTGGCGCTTCCCCTCCCCGACCCTCCTGCTCTGGTCTGTG
ACTGGGATCACTGACCCTGCACCTCCG A/G 868 0.231 0.000

0.374 0.000 63.6% 176 0.6% 156 0.0% 56 0.0% 80
NA 0 64.1% 64 83.3% 24 58.0% 88
57.9% 38 NA 0 0.0% 78 1.3% 78 0.0% 56
0.0% 80
rs578459 AB_ASSAYS_ON_DEMAND 1 38.5881 19908997
forward LGD
CTCCCACTAGACCAGGGCAGTATTTAGGGGAAGGAGGCAGATTGGAGCAGTTGGCTGCCAACACCTGGCCTCACT
CAGGGAGAGGGGCCTTGGGCCTGGA[A/
T]GATATCTGGGTGAGGTACCCACACCATCTGCTGCAACCTCTGTGTATCCATTATGGGCTCACGCCATTCACAG
GCATGAATTGAGCACCTAGTATGTGGG A/T 1,536 0.174 0.000
0.225 0.048 4.0% 198 51.3% 156 51.7% 58 25.6% 78
NA 0 3.0% 66 2.5% 40 5.4% 92
7.1% 42 NA 0 51.3% 78 51.3% 78 51.7% 58
25.6% 78
rs213045 AB_ASSAYS_ON_DEMAND 1 40.0192 21086720
forward LGD
GCCCTCACAGTGACCCCTCCTTCGAGAAAATCTTAAGTCCCCCTTCAACAACCGGGTCCCCAGTGGCAGATAACA
AAAGTATCAGGAAGGTGCCCTCGAT[G/
T]TGGCCCAGAGCAATCAAGACAGGTTCCCCCCGGCATCAGCCCTTAGGTGTGTCTAGGGGGTTAATGCTAGAAA
GACCAGACAAAAAAGGTGGGGTAAAAA G/T extended_map 0.185
0.006 0.338 0.041 85.9% 198 27.6% 156 19.0% 58
51.2% 80 NA 0 86.4% 66 97.5% 40 80.4% 92
92.9% 42 NA 0 33.3% 78 21.8% 78
19.0% 58 51.2% 80
rs7547731 APPLERA_RESEQUENCING 1 40.7576 21629623
forward LGD
TGAGGGCAGCATCAGCATGTTGTTCTCCAGGCGGCTGTCAGGTGGCAGGCTGCCATCCAGCTGCAAATGCACTAG
CACTGAGGGCCCTGGCCTTGGCCCA[C/
T]GGCTCCAGGGGCCCACCTCCCATCTGTGCCTCAGGCCCACCTTCCAACATTGAGCGTTTGCTCTTGGCCAAGC
CTGTGCCACATCCTGGGGACACTGAGA C/T 2,028 0.113 0.011
0.238 0.017 9.7% 196 51.3% 156 63.8% 58 66.7% 78
NA 0 6.1% 66 7.5% 40 13.3% 90
11.9% 42 NA 0 56.4% 78 46.2% 78 63.8% 58
66.7% 78
rs908502 AB_ASSAYS_ON_DEMAND 1 42.4973 22670715
forward MIT_and_LGD
CCCTACTCCATCTGATTGTGACGAAGGGGCCTGGCACTGGGCAGGCTCTGCTAAACATATGCTGGATCAAGGGGA
GAGCAAATGAGCACATGAACAGCCA[A/
G]TTGCCACCCTAGAGAGGGGCTCTTCTCAAGTTCAAGGAAAAAATAATAATAATGTCTCCTGGACCCAGTTTTT
TGTTTTATTTTTTTCATATGTTCCACA A/G 1,261 0.227 0.001
0.321 0.172 22.7% 198 89.1% 156 87.9% 58 43.8% 80
NA 0 30.3% 66 22.5% 40 17.4% 92
14.3% 42 NA 0 92.3% 78 85.9% 78 87.9% 58
43.8% 80
rs2156087 AB_ASSAYS_ON_DEMAND 1 42.8613 23213056
forward LGD

GCTGGAGGCCCTCCCGCAGACGCACTCTTTCCTGTCCCTGCATCCTTCTAGGCAAAGCCAGTGCCATTTATGTCC
TATTTGGGTCTTGTGAGTCTAACAT[C/
G]TGGTTGAGCCAAAGAAGACCCCCAGAGGGGGCACTGCAGGAGATAATACCAATATCTTCCTCCCCAGGATGAA
AGGTTTAAATGAGATAATATACACTGA C/G 69 0.362 0.010
0.621 0.025 7.6% 198 86.5% 156 94.8% 58 71.3% 80
NA 0 10.6% 66 2.5% 40 7.6% 92
4.8% 42 NA 0 84.6% 78 88.5% 78 94.8% 58
71.3% 80
rs1476351 AB_ASSAYS_ON_DEMAND 1 44.6176 24898501
forward LGD
TACTCCACTCTCCTCTTCATGCTGACTTTCGCCCTCATGCTTGCTACTTCATGACACAAAAGGGCTTCTGCAACT
CCAGGCCTCCTGGATGTGATCCAAC[A/
G]AGGAAGGCAGGAGAAAGGGAGGAGCAGCACCTCCTCCCATATCAGGAAAGAAAAGGTTTCTCAAGATAAATTT
AGCGTGTGTCCTATTAGCCAGAATTAT A/G 854 0.251 0.007
0.356 0.001 65.3% 196 0.0% 154 1.7% 58 0.0% 80
NA 0 68.2% 66 67.5% 40 62.2% 90
81.0% 42 NA 0 0.0% 78 0.0% 76 1.7% 58
0.0% 80
rs3014712 AB_ASSAYS_ON_DEMAND 1 44.8424 25596048
forward LGD
AAAGGGGAAGACTCGCTGGGCGGGGGCTGTGACTCAAGGCACTCATATAAGGAGGCAATTATCTCACGATTGGAC
ATGCTGGTGGCCCAGTCTCCAGCCA[G/
T]TGCTACTTGGAGGATCCGTCACTGTTAGACATGCCAACAAATATATATACTGCTCAGTTGAGAGCAGACCTCA
CAAGCAAGGCTGGCGGCTTTAATTATC G/T 585 0.267 0.225
0.023 0.044 8.6% 198 76.3% 156 20.7% 58 52.5% 80
NA 0 7.6% 66 10.0% 40 8.7% 92
14.3% 42 NA 0 76.9% 78 75.6% 78 20.7% 58
52.5% 80
CV2800274 AB_ASSAYS_ON_DEMAND 1 44.8928 25746495
forward LGD
CACGGAGTTCAGGATGGGAGTCCGGGGTCACAGGAACAGAGGAGAGGGGTCATTTCGGGGGGCGGGGGCAGAGGG
CTAGTAGAAGAGGTGATGTTGGAAG[G/
T]TGTTGGGTTTTCACTTGGTAGGCAAGGCAGGGAGGAGCCCCCTCGTCAGACACAGGGTGATGAGATGGTGTCG
GGTGCTGGCGAGGGCTTACGGCAGCAC G/T 1,987 0.125 0.041
0.371 0.052 29.8% 198 80.1% 156 96.6% 58 97.5% 80
NA 0 21.2% 66 22.5% 40 39.1% 92
42.9% 42 NA 0 85.9% 78 74.4% 78 96.6% 58
97.5% 80
CV1801025 AB_ASSAYS_ON_DEMAND 1 45.0667 25929208
forward LGD
ATGACTGAGAGACGCCGAGGCCCCAAACCGGGCCAGAATACAAAAGTCTGCAGGAAGCTCAATTGAGATATAGGT
GTTTTCTCCAATCAAACTTACCCAG[C/
T]CAAGCTGATTCCTCAGAAGCAGCCCCAGACGTTTAACTCGACGGAAATGAGAAACGACCCAGGAACCCGTGGC
CCTTTGGTCGTCGTAGTTTCCAAGGCT C/T 1,507 0.218 0.000
0.279 0.005 91.4% 198 31.2% 154 32.8% 58 23.7% 80
NA 0 89.4% 66 92.5% 40 92.4% 92

85.7%	42	NA	0	32.1%	78	30.3%	76	32.8%	58
	23.7%	80
rs73494	TSCAF	1	46.6217	27580072	reverse	MIT
AAGTCCAAACAACAGAGTATTTGGGGGACAAGGTGGGGCTGGGAGCCCACCTGCCTGCTGCTCGGCTGGGTGACC
TTAGGGAAGGCACACCCTCTTTAGT[C/
T]CTGCCAGGGAGAATGCAGGAGTTGAGATGGGGACTCAGGCCTAAAAATAAGGCAGGGCAGGACTAAAGACTTG
GAGTTGAGCCAGCTAGCCTGCTTTCCA	C/T	2,123	0.174	0.017
0.211	0.269	49.3%	306	100.0%	264	96.6%	58	53.7%	80
	46.4%	110	51.5%	66	47.4%	38	52.2%	92
47.6%	42	100.0%	110	100.0%	78	100.0%	76	96.6%	58
	53.7%	80
rs2072750	AB_ASSAYS_ON_DEMAND	1	46.7741	27762559
reverse	LGD
CGAAGGGATAAAAAGGGTTCATGCCAACCATTACTAATGCCTACTAGTGCCACAGACTGGGAGCTCCCTGAGGGC
AGGGATGGCGCTAACCTACCCTCGT[A/
G]TTCTCTGTGGCAGACAGACAAGTGCCGCACGAGGGATGCAGCAACCACAGAGGGATGCGGGGCTTGGAGGTAG
GGTTGGGGCCGGGGCTGGCTCGAGCGC	A/G	1,792	0.232	0.013
0.283	0.098	66.2%	198	1.9%	156	6.9%	58	26.3%	80
	NA	0	65.2%	66	75.0%	40	63.0%	92
64.3%	42	NA	0	1.3%	78	2.6%	78	6.9%	58
	26.3%	80
rs497853	AB_ASSAYS_ON_DEMAND	1	47.9324	29149367
forward	LGD
GCAGTGGCAGTGGAGGAGCTGGTGTGGATGAACCTGAAAGGGGCAGGAAAGGCACTTGGGCAGCCTGGAGCAGGC
AGGAGTTGTCACCCGCTCTCTCTAA[C/
G]CCAGCCCTGCACAAAGCCACTGGCCTTACCTCCTGCAGGTGAAGCAGGTACAGAGCTACCTTCTGCTTCCAGC
CTCGGGGGTGAAATGACCCCCTGCTAA	C/G	extended_map	0.088
0.146	0.000	0.277	71.2%	198	28.8%	156	74.1%	58
88.7%	80	NA	0	72.7%	66	87.5%	40	63.0%	92
	71.4%	42	NA	0	25.6%	78	32.1%	78
74.1%	58	88.7%	80
rs729013	TSCAF	1	49.8997	30488861	reverse	MIT
CTGTGTGTGCCTGAAATACCCTGCACCTCTAGTTGGCCCTGTTCATGGGCTGTGCAAGCTCCTCTGGGGCTGGAG
ACATCCAGAGCGTGGCACCTGCAGC[A/
G]GGAAGCTGGGAGGTTCTTGGGAACTGTCCACTGCAGCTTCAGGTGAGCTCAGGCATGGCCTGAGGGGCTAGGA
GGTGGCACAGCAAGAGCCCCGCTGCAT	A/G	610	0.241	0.007
0.342	0.000	36.0%	308	99.6%	262	98.2%	56	100.0%	80
	33.6%	110	25.8%	66	30.0%	40	48.9%	92
45.2%	42	100.0%	110	100.0%	76	98.7%	76	98.2%	56
	100.0%	80
rs4949198	AB_ASSAYS_ON_DEMAND	1	51.7637	31184087
forward	LGD
ACAGTTTGTTAGGCCACAGGCCTCCCTCAAAATGCTCCCTTGAAGCTGCCCCGGACTTTGAGAGCGGTCAGCCCT
TGTCTACAGCAGAGGCGTTACACAA[A/
C]CCTCCTGACTTTCAGGAACTCTGGCTCTTCCTGTTCCGTGCCACACTCTGGTGTGGGTCTATAACATGCTGTC
GGACTCTGCGAGTTGTGATACTGAGGC	A/C	169	0.297	0.068

0.158 0.184 6.6% 198 76.6% 154 46.6% 58 26.3% 80
NA 0 4.5% 66 5.0% 40 8.7% 92
9.5% 42 NA 0 78.2% 78 75.0% 76 46.6% 58
26.3% 80
rs881882 TSCAF 1 51.7656 31199843 forward MIT
TACGACGGGGCCACATCCCAATCAAGCCATCCTAAATCGAAAATGCATTCCACACCCCAATAAACCCATCGTAAG
TCAAAAAACCATGTTGAACCACTGT[A/
G]AGCTGTAAGCTGGGGACCAGCTAGCTGTACATACAAACACAGAAACATACCACAGCCCCCAAATGTCCCTCTC
CAACAGACTGGTGGGGAATAAAAGGAA A/G extended_map 0.107
0.005 0.219 0.052 32.4% 296 79.1% 230 86.5% 52
53.9% 76 33.3% 108 26.6% 64 55.0% 40 25.0% 84
50.0% 40 81.1% 106 77.4% 62 77.4% 62
86.5% 52 53.9% 76
CV1496531 AB_ASSAYS_ON_DEMAND 1 51.7693 31231016
forward LGD
AGGACTCATCCTTGCATAACTTCACTAGGCCCATGAAGGTCTTCAGGGATTAGCTTCTCTAACCTGAAAAGGGAT
CGACCATCCCTGAACAACCAGGGGA[A/
G]GTAGGTGAGGGAAGACAGTACCAATTTTTGTTCTGATGGGCTGGCCTGTAAATAAACTGTTTAGGGGGTTGGG
ACTGAACGGGATTAGGGCTACTGACTA A/G extended_map 0.246
0.025 0.175 0.131 3.5% 198 62.2% 156 43.1% 58
20.0% 80 NA 0 1.5% 66 2.5% 40 5.4% 92
7.1% 42 NA 0 62.8% 78 61.5% 78
43.1% 58 20.0% 80
CV1496622 AB_ASSAYS_ON_DEMAND 1 51.7754 31281121
forward LGD
CAAAGTGCTGGAATTACAGGTGTGGACTACTGTACCTGGCCTGGAAGTTGACTTTTTAAAAATAAATTTGGATTA
ACTAAGGAGCCTCTGAGTAACCGCA[A/
G]TAGAACCCTCGGTTTCTACAGAATTTGAAAAAAAGTTTTATATTCCATATTTAAAAAATGACAACCATTTACT
TTCCTGAAATTGTAAACCTGTTATAGT A/G extended_map 0.243
0.024 0.175 0.137 3.5% 198 61.7% 154 43.1% 58
18.8% 80 NA 0 1.5% 66 2.5% 40 5.4% 92
7.1% 42 NA 0 63.2% 76 60.3% 78
43.1% 58 18.8% 80
CV11266474 APPLERA_RESEQUENCING 1 51.7899 31402177
forward LGD
CTTCATCAGCCTCAACCTCACCTTCTGTGTCTGCGTGTCCATCGCTGCTGTCCTGCCCAAGGTCCAGGTGAGCCT
GCCTGTCCCCCCCTGGCCTGAAGCC[C/
T]GGCCCCTTAGTGGGTGGGACTTCTTGTAGGAACCTGGGTCCTGGGGCTAGGGCTGTCATCACAGAGGCACGGC
CTGAGTGTGTGGGCTCCCAGGTCAGCC C/T extended_map 0.211
0.029 0.487 0.038 25.3% 190 89.5% 152 100.0% 58
71.3% 80 NA 0 20.3% 64 34.2% 38 25.0% 88
42.5% 40 NA 0 89.5% 76 89.5% 76
100.0% 58 71.3% 80
rs968335 AB_ASSAYS_ON_DEMAND 1 51.835 31588249
forward MIT
ACGTGAGGGGCCTGATGGAAACAGCCGTCTCCTCTCCCTCCTGCACTGGCCAGGAAAGACCCCAGTGGTGGAAAC

CAGGATGTCCGGATGGGGTTAGTGG[A/
G]GTGGAAGGAAGGCTTCTCTCAGTTTGTATCCTGTGATCCACTTCCTGCACCCCAGAGGGCAGGGGGCACCCCT
AGAGGCAATGCCCACACACCTCTGACC A/G 1,511 0.184 0.008
0.170 0.122 92.5% 308 39.4% 264 50.0% 58 80.0% 80
90.2% 112 92.4% 66 97.4% 38 93.5% 92
85.7% 42 35.5% 110 38.5% 78 46.1% 76 50.0% 58
80.0% 80
rs359955 TSCAF 1 52.7156 32637247 forward MIT
CTGGCATCTACTCCATGAGTCTCTGTTTGGGTCAGTTGCTGATGATCAGAAACTTATGATGTGAGTAGAATCCAT
TCAGAGTTTCTAAATATCTTGTCTA[A/
C]GTTTTATGTTTAGTCACCATTTCAAGGTTTTTTTCCTTTGTTTTTTTTTCACTGAAGTTGGGATACTCGTTCA
AACAATACTTCCAAACCAAGCCACTCA A/C 910 0.261 0.001
0.407 0.032 12.4% 298 81.2% 282 85.2% 54 62.5% 72
14.3% 126 12.1% 58 15.6% 32 8.5% 82
18.4% 38 82.2% 146 71.2% 66 88.6% 70 85.2% 54
62.5% 72
rs1498110 AB_ASSAYS_ON_DEMAND 1 56.1453 35069133
forward LGD
CCAAAATCACAAATGGTACCAAAGCCTAGCCTAGCCTACATGGCCTTTTTGGATGGCAAATAGCATATACAGCAT
GTATATGCTGTATCCAACATTCCCA[C/
T]CAGTATTCTGCCCAAGGTGGGAAGGACAGGATGCCTCTCAGAAAAGCACACAATTTAAAAATTAATAACTCTG
AGATTGTGGTTAACCATGGTTGCAGAT C/T extended_map 0.191
0.275 0.001 0.308 37.2% 188 96.1% 152 41.4% 58
37.5% 80 NA 0 33.3% 60 33.3% 36 41.3% 92
47.6% 42 NA 0 94.7% 76 97.4% 76
41.4% 58 37.5% 80
rs1498111 AB_ASSAYS_ON_DEMAND 1 56.1454 35069270
forward LGD
CTCAGAAAAGCACACAATTTAAAAATTAATAACTCTGAGATTGTGGTTAACCATGGTTGCAGATAAGGGGATATT
ACTATATTGTTATTTGACTATACTT[A/
G]CTTGTGAAGCGATGTGTGACTATCTCATAAACATCATCTTATAATTCGTACATACAGAAGTTGGAAATACAAA
ATGCTATGTCTGAAATCCAATCAAGAT A/G extended_map 0.197
0.329 0.000 0.289 63.9% 194 3.9% 128 65.4% 52
60.5% 76 NA 0 71.0% 62 65.0% 40 58.7% 92
52.4% 42 NA 0 3.3% 60 4.4% 68
65.4% 52 60.5% 76
rs917105 AB_ASSAYS_ON_DEMAND 1 56.2395 35367136
forward LGD
CTGTATTGGAGATGTGTGTACCTAAAATGGAAGGACCCCATCCTAAATAGGGAAGGACATTCTACTTGACTAACC
TTTTAATGATAACATAAACCCAACT[C/
G]GCTCAATTTCCATCAAAGTATGTACCACTCAAGTCCTAAATAGTGTTAAGAGAACCCATATGTGTTTGTAAGT
CAAACTTTGGTATATTAACACATACTT C/G extended_map 0.219
0.165 0.036 0.332 23.7% 198 89.1% 156 44.8% 58
23.7% 80 NA 0 18.2% 66 10.0% 40 33.7% 92
11.9% 42 NA 0 89.7% 78 88.5% 78
44.8% 58 23.7% 80

rs6425948 AB_ASSAYS_ON_DEMAND 1 56.2704 35464884
forward LGD
TGAGGGAGGGAGGAACAGGGCATTGCCACAGACTCCCTCATATATAGATACACACAAACACAATCCTGATCTCTG
ACCCATCTCGAGCAGGAAAGTTGCA[A/
G]AGCTTCCCAATTCCGCTTCATCCTCTGGAACCTCGCTGGCGGTTCCAGACTTCAGAAAGTTCTTAATGATGAA
TCCTTGGCTTCTAGCCTCCTTCTTTCC A/G extended_map 0.368
0.141 0.141 0.298 92.9% 198 13.6% 154 55.2% 58
76.2% 80 NA 0 98.5% 66 97.5% 40 87.0% 92
97.6% 42 NA 0 11.5% 78 15.8% 76
55.2% 58 76.2% 80
rs953035 TSCAF 1 56.2837 35507170 forward MIT
CTCTGAATTTTAATTTCTCATTTAAAACATGGGATGATCCCTACTACAAAAGGGTTGCTGCAGTGAGGATTCCAA
AAGATAATGCATGTGGATAATAAGT[A/
G]TAATGCCCGAAACAGTAAAGACTCTATAAACAATGCAAGTACTCAGGAGAAGCCCAACTACTTCTGGCACTGA
GATACGAGGGAAATTCCTATGTGTCTT A/G extended_map 0.291 NA
NA NA 20.0% 70 94.8% 96 NA 0 NA
0 20.0% 70 NA 0 NA 0 NA 0
NA 0 94.8% 96 NA 0 NA 0 NA
0 NA 0
rs595961 APPLERA_RESEQUENCING 1 56.6425 35795442
forward MIT
GGTCAGGGCCAGACAACATCTCGGGGCATATGGGGGTGGTTGGGTTGTATAGCCAGGGGCTTTTGCTCCCCTACC
CACCTGACTCTACTGAGGCTCACCT[A/
G]GGCGCCCCCTCTACCTATCCCCAGAACCGGGCCATTGCCACACCCAATCAGGGTGTCTGGGACATGCGGGGGA
AACAGTTCTACAATGGGATTGAGATCA A/G 162 0.302 0.194
0.059 0.371 88.2% 296 14.3% 258 64.3% 56 83.8% 80
87.3% 102 90.9% 66 92.5% 40 85.2% 88
95.2% 42 14.4% 104 11.5% 78 17.1% 76 64.3% 56
83.8% 80
rs272817 TSCAF 1 57.1608 36074153 forward MIT
TGGAATCAGTGTTACTGCATCTGATTAAATGTCTCCAGAAATAAAGAATAATTCTGCCAATCCTGCCTGTTCTTG
GAGCTGGTGGCGGAGGTGGGAGCAG[A/
G]TGGCCTCCTGAGTTCTAAGAACTGAAGAAGCCTCGGGCTGGTGGTATTAGTCCTGAACTCCTGCCCTATGGTC
TTCCAGTTTAGTCATGAATTCATTCAT A/G 1,242 0.195 0.271
0.003 0.269 58.6% 292 1.5% 264 51.7% 58 51.3% 78
66.7% 108 58.1% 62 52.9% 34 51.1% 88
47.1% 34 1.8% 112 2.6% 76 0.0% 76 51.7% 58
51.3% 78
rs495596 AB_ASSAYS_ON_DEMAND 1 57.95 36685593
forward LGD
CCAGCATAGATATTCTGGGGCTAGATAAGACAGAAAAATATGGAAGTGAAGTGGGATGCTCAGTTAATCAACATT
TCTGATGGGGAACTAAGGACTCAAG[G/
T]GAGGATTCATTTCTATGATGCTGTTGAATGGGGTGAGCGGGGCTTGTGCCTTCAGAGCATGGAGCAGGAGGGT
TCCGAGGCCTGTGCTGCATTCAGTGAC G/T 512 0.264 0.033
0.185 0.050 93.9% 196 28.9% 152 50.0% 56 55.0% 80
NA 0 100.0% 66 97.5% 40 87.8% 90

95.2%	42	NA	0	27.6%	76	30.3%	76	50.0%	56
	55.0%	80
rs571881	TSCAF	1	60.653	37963399	reverse MIT
ACAGTGAGCCCTCAAAGGGTCTCTGAGAACAGTTGTTCCTGGGCATAGTCATTCCATGGACACAGTTAGTGACTG
GATGTAGCTGATTCCTGGGCATCAT[C/
T]GGTCCCCCAGGGCACAGGGCACAGTCAGCAGTCAGTCCCTGGGCACAGTTGTTTCTGGGCTCAGTTGGTCCCC
AAGGCAGTCAGTCCCTGGGGAAGAGTC	C/T	1,724	0.115	0.034
0.336	0.005	37.0%	300	84.7%	262	98.3%	58	78.7%	80
	40.7%	108	34.4%	64	32.5%	40	36.4%	88
42.9%	42	84.5%	110	84.2%	76	85.5%	76	98.3%	58
	78.7%	80
rs751693	AB_ASSAYS_ON_DEMAND	1	60.6552	37964609
forward LGD
CCAGGACTACCCCATGAGGCAGCAGTTATCATCTTCATTTACAGATGGAAAAACTGAGGTTCACAAAGATGAAAG
TTCTTTCCTGGTCTTTCTGACTCCA[A/
G]AGCTCTTACCTGTAGTGAGGTCTGCCTATTTCCACACTGCACGTGGGTCTCCCTGAGTGGAGGGAGAGGCAGG
GGCCTCCCAGCATCTTACAGAAGAGGA	A/G	extended_map	0.164
0.033	0.422	0.005	72.1%	190	14.9%	154	1.7%	58
21.2%	80	NA	0	75.8%	66	65.8%	38	72.1%	86
	61.9%	42	NA	0	15.4%	78	14.5%	76
1.7%	58	21.2%	80
CV438733	AB_ASSAYS_ON_DEMAND	1	65.0938	40368450
forward LGD
ACAACTTTACTACACATAGTTAGGATAGAAAGACCCACCCCTTTCCACTTGTGGAGACCCTGAATACCAGAAGAC
TCAAAATTCTGAGGATGGTTCTTAG[A/
T]CATCAGCATAAACATTCACACTGTTTTTTTTACTACATAAGCAGGATATCAACTTTCCAAACCTAGTGTGATA
TCCCAGTTAGAGAAAGGAGAAGAGCCA	A/T	1,243	0.191	0.139
0.018	0.019	2.1%	192	48.7%	156	8.6%	58	32.5%	80
	NA	0	3.1%	64	0.0%	36	2.2%	92
7.1%	42	NA	0	50.0%	78	47.4%	78	8.6%	58
	32.5%	80
rs893930	TSCAF	1	66.1956	41627946	forward MIT
TCATTGGCTTTGAGGACTCTCAGGGGAGCAGTGCACACAGGAGGACCACCACTCAGCTGGGCTCAGAGTGTGTGT
GCCTTCCGCAAGCATCTGAGACAGG[C/
T]GCCACAAATGAGGGCTGCTTGCTGCCCACACAAAGATGATCTGCCCCCAGTCAATATACACTTGTCTCTCTCT
TGTCCACCCTGTTAGAGACAGAACAAG	C/T	1,589	0.146	0.064
0.075	0.060	47.9%	190	0.8%	130	16.7%	48	16.2%	74
	NA	0	50.0%	60	45.0%	40	47.8%	90
40.5%	42	NA	0	1.6%	64	0.0%	66	16.7%	48
	16.2%	74
rs885846	AB_ASSAYS_ON_DEMAND	1	66.4824	42033448
forward LGD
AGATGAGGGAACTGAGGCTGAGTGGGGAACAGACAGGCAGCCGGTCATGGGCAGAGGTGGGATTTGAACCAGGGC
TTGTCTGTCTCTAAAGCCTCGAACC[A/
G]CTGTGCTCCACAGCCCCGCTGCTTCTTCCTCACACCTCTCACCGCAGCGGCTCTTTCCAGTGTGGCCCTGGAC
TTCCCATAGAGACGGGGAAGGCTCTGG	A/G	654	0.233	0.003

0.361 0.069 6.1% 198 66.2% 154 72.4% 58 35.0% 80
NA 0 9.1% 66 7.5% 40 3.3% 92
2.4% 42 NA 0 67.1% 76 65.4% 78 72.4% 58
35.0% 80
rs629602 TSCAF 1 66.4957 42067222 forward MIT
ACTTGGATATGAAATTCCTACAGAAAAATGTGCAATCAGAGTAGAAGACATGGCTGCAAGGGTAAAGAATGAAGG
AAGAAAGCGAGATTTAAAAAATATA[C/
T]AGGAAAGATTTTGGGTCTAAAGTAAAACATCAGTGAGACTATTTTCCATTACGTCTACTCTTCAAACACTTCG
AATTGTTCAATTTTAACATTCTTAGGA C/T extended_map 0.082
0.051 0.310 0.000 66.6% 302 25.6% 258 5.2% 58
24.4% 78 59.8% 112 70.3% 64 72.2% 36 70.0% 90
69.0% 42 29.1% 110 20.5% 78 25.7% 70
5.2% 58 24.4% 78
rs3768043 AB_ASSAYS_ON_DEMAND 1 66.9133 42832648
forward LGD
AGGGGTGAGGTTGCAGGCCCCAAGCCAACACTGCACACTTTCCTCTTTGTTCCAGGCCTCCCCAGCTTTGCCAGT
CTTGGGGAAGCAGGGAGCTGGATGG[A/
C]TGTACCCTTGGTACTTGAGCAGAGCTCTGGGCCGACACCCCGTGACCAGGAGGCACTGGGCAAAGCTGAGCTC
CTTGAAGTCACAAGCTGATTACGGGGG A/C 978 0.191 0.051
0.099 0.050 81.8% 198 21.2% 156 46.3% 54 46.3% 80
NA 0 80.3% 66 77.5% 40 84.8% 92
78.6% 42 NA 0 24.4% 78 17.9% 78 46.3% 54
46.3% 80
rs632866 AB_ASSAYS_ON_DEMAND 1 67.133 43083918
forward LGD
GGCATGCACAGAGTCTTCCAGGCTGCGAGGGATGAATATGATTTCATTTTTAAGCCTGGCTTCCTAGGAGATGCC
CCTGGGTCGGGAGAGCTTAATGTTC[A/
C]GCATTTGGTAGACTGTTGTGTTTGGTAGGCCCGTTGTGCCAGTGAGACTCTGCCCTATGTTAACGGGTCTTTG
TGTAGCTTAGGAGATGCTTTCAAGTTT A/C 1,850 0.099 0.127
0.002 0.024 56.6% 198 12.8% 156 51.7% 58 27.5% 80
NA 0 60.6% 66 67.5% 40 48.9% 92
42.1% 38 NA 0 10.3% 78 15.4% 78 51.7% 58
27.5% 80
CV1252855 APPLERA_RESEQUENCING 1 67.808 43855815
forward LGD
TGATTACTTTTCTTCTTCCCTCAGCCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCA
GGTGGGTGGATGGGCGTATGAATGC[A/
C]AAATGCTGGGACTTCATGCCTGCTTCCACTCTCCCCCATCCCAGCTTGGGCCATCATTTTGATATTCTCTCAC
CTACTTTTTCTGCTTTGCAGAGTGGGG A/C 128 0.319 0.095
0.152 0.005 9.1% 198 84.0% 156 50.0% 58 77.5% 80
NA 0 7.6% 66 10.0% 40 9.8% 92
7.1% 42 NA 0 84.6% 78 83.3% 78 50.0% 58
77.5% 80
rs320057 AB_ASSAYS_ON_DEMAND 1 71.7243 48547935
forward LGD
CTGTGGGCCAGGCACTGTGCTGGTCACACTCAACCATCCTTCCCTCCAATCCTCAACACCACGCTGGGAGGAGGG

AGACAGGCTCTTCAGGACCTGGCCC[C/
T]TTTCTAACCTGCTTGCCCCACTCTTTGCTGCTTTTTTCCCCACGGGTAGGACCGTGAGCATATCATTTCCCCT
CTCTGGCACTCAGTTTCATCCTTAGCA C/T 1,898 0.197 0.005
0.376 0.007 63.6% 198 3.8% 156 0.0% 58 0.0% 80
NA 0 60.6% 66 70.0% 40 63.0% 92
76.2% 42 NA 0 6.4% 78 1.3% 78 0.0% 58
0.0% 80
CV1918486 AB_ASSAYS_ON_DEMAND 1 72.55 51998207
forward LGD
TTCCCTAAAAATGCACAAAAGCAAATCCTTGAGATCGCCCAGTTTGCTGGTTGTAAACCACATTGGCACCATTCA
AAGGTCCATATCAAGAACATACTTC[A/
G]CGAAGATCTCTGTCTGTTGTGTACAAACTAAGGCCAAACACTCTAAGGCAAGTGTTGGGATCTGGATTTGCCC
TTCTGCCAGTGTGTCTTCTCTGGTTAG A/G extended_map 0.224
0.000 0.338 0.000 25.3% 198 91.0% 156 91.4% 58
91.2% 80 NA 0 19.7% 66 35.0% 40 25.0% 92
16.7% 42 NA 0 88.5% 78 93.6% 78
91.4% 58 91.2% 80
rs2762818 AB_ASSAYS_ON_DEMAND 1 72.6678 52168931
forward LGD
AAACCTGCATGTTGTGCACATGTACCCTAGAACTTAAAGTATAATAATTAAAAAAAAAAAAAAAAATATGCCCTT
AGGATATTGACAAGGGCCAGCTCTG[A/
G]CATTTGAAGGCACGACTAGGCCCCATAATGAGAGTATGTTTAGGTAAATTTGAAGCTTGTTGGATGACCATTC
CCACAGAATGCTAATTAACTTGACAGG A/G extended_map 0.227
0.001 0.322 0.001 73.0% 196 7.1% 156 8.6% 58
8.7% 80 NA 0 78.8% 66 65.0% 40 72.2% 90
81.0% 42 NA 0 7.7% 78 6.4% 78
8.6% 58 8.7% 80
rs1493365 AB_ASSAYS_ON_DEMAND 1 72.9995 52387363
forward MIT
CGCGCTCGCGCGCGCACACACACACATACACACACACACACAAAGTCGGCTTTTCTTTTTAAACCATCCCACAAT
TCAACACCTCTCGGTGGTATTCTCT[A/
G]AATTATCATATCTGGCTGGGATTATCCAATTTTATTAGCTAACAGTTCTCATTACTTTAAAAACAGAAACAGG
ATATGTTCTGTTTCATCAAGTGCTACA A/G 1,515 0.249 0.002
0.415 0.002 17.2% 180 86.2% 152 90.7% 54 82.5% 80
NA 0 8.9% 56 21.1% 38 20.9% 86
12.5% 40 NA 0 85.1% 74 87.2% 78 90.7% 54
82.5% 80
rs4288541 AB_ASSAYS_ON_DEMAND 1 73.656 52819617
forward LGD
TGTTTTTGTTTTAGCAAGCATTTAAGCCAGTATGTTCTGACAATAAGTTCTGTCTTGCCTTCTGAGGGTGGTGGT
TAAAGTCTTTGCTCAGCTCTCTAAA[C/
T]GTATGCCTACGTCAGAGTAAGCCTGAGACTTGTACAGGTCTATACACAGAATTAGGGGATCCTCTTCTCTGGC
TCTCTCCACTATAGACTTCTTCCCTTA C/T extended_map 0.253
0.168 0.048 0.052 16.7% 198 86.0% 150 39.7% 58
62.5% 80 NA 0 24.2% 66 5.0% 40 16.3% 92
32.5% 40 NA 0 85.1% 74 86.8% 76

39.7%	58	62.5%	80
CV11875104	AB_ASSAYS_ON_DEMAND	1	73.7072	52853349
forward	LGD
TTTAACCCAGTGGGTACTATTTGAAGATCCTAAGTCATATAAGAAGTTAAATTAGAAGTAAAAATTGTTTCTATA
TAATGATTACAACTGTATGCATGCC[C/
T]ATAAATAAAGACAACAAGAAGCAATACAGAAAAATGGATAGAGAAAAATTGTTGGAGTAGTAGCATTGCAGGT
GATTAACTTGTTCGTATTTTCTTTTTT	C/T	755	0.278	0.203
0.044	0.035	14.6%	198	86.8%	144	35.7%	56	68.6%	70
	NA	0	19.7%	66	5.0%	40	15.2%	92
9.5%	42	NA	0	86.1%	72	87.5%	72	35.7%	56
	68.6%	70
rs7550236	AB_ASSAYS_ON_DEMAND	1	73.763	52890044
forward	LGD
GTAGGGATAAAAGCTATATTGGAATTGGTTTCATAAAGTTTTATGAAAAATAGGAACAGAAGAGTTCCATTTGGT
AGTGATATGCTCAGTTTCCAAGTGA[C/
T]GAATATAGAGCAAGCACATTAGCTAATACAGGTCTAAGCTAGGTCATCTTGCACATGCTGTTCTCTGTGCCTG
CCCTCACTATTTTCCCCCTCCCCACTC	C/T	extended_map	0.261
0.180	0.046	0.043	15.7%	198	85.9%	156	37.9%	58
65.0%	80	NA	0	21.2%	66	5.0%	40	16.3%	92
	9.5%	42	NA	0	84.6%	78	87.2%	78
37.9%	58	65.0%	80
rs1288516	TSCAF	1	74.1095	53118204	reverse	MIT
CTAAAATGCAGATCCCTAGGCTCTGCCCTAGAAGTCTAGATTCAGTCAGTATGAGCTGAGGCTCAGGAACCTGCA
CTTTGAGTAGCTCCCTCACCCCCCA[C/
T]CCTTTGATGAGAGGACCCCAGCAAAGCACTGGTCAGCTTCAGCTTCCTGTGTTCCAGTGGGGCCCAGAGGGGA
GGTGCTTACCTGGGGTCCTGCAGTGTT	C/T	1,094	0.251	0.016
0.474	0.000	94.0%	182	30.9%	152	17.2%	58	31.2%	80
	NA	0	95.3%	64	96.4%	28	92.2%	90
92.1%	38	NA	0	36.8%	76	25.0%	76	17.2%	58
	31.2%	80
rs734908	AB_ASSAYS_ON_DEMAND	1	74.4068	53313955
forward	MIT
GAAAAGAAGGACTGGGGACACTCCTGGTGGGAGACAGCACCGTGTACTGGTCCCTGGCTAAGGACGCCACCGGCC
TCCAGGACAGGGCCCTGCCTCACAG[G/
T]GTGCTGCCTCCCCGCTGGCTCCGCAGCAGAAGCTTCAGCAGGCCATTCCACCATCCCTCAGACTAGCTACTAG
GTGCAAGCCTGTGGCCATCCTTCTCTC	G/T	59	0.389	0.080
0.832	0.052	1.4%	296	74.8%	258	98.3%	58	48.7%	80
	0.0%	100	0.0%	66	0.0%	38	4.3%	92
2.4%	42	74.5%	106	78.9%	76	71.1%	76	98.3%	58
	48.7%	80
rs2296758	AB_ASSAYS_ON_DEMAND	1	74.4496	53342123
forward	LGD
CTCAAGCTCGGATGGCGGCTCCCTGGCAGCGCTGGGTGGGGTGGCAGCGCTGGCTCCCCTGGGTCATGGCCTGGC
TGTTCCGGCTGTGGCCTGGCACTCC[C/
T]GCTAGGTGCACGGAGGGTGGGAGCGACAGCAGGTGGGCGAGGTGGCATCTGCAGTGCTGGATGGGCAGGCGCA
TGTGGGGGCTCCTTCAGGTGTCTGTGT	C/T	extended_map	0.357

0.055 0.753 0.061 4.5% 198 80.1% 156 98.3% 58
52.5% 80 NA 0 3.0% 66 2.5% 40 6.5% 92
4.8% 42 NA 0 84.6% 78 75.6% 78
98.3% 58 52.5% 80
rs6663966 AB_ASSAYS_ON_DEMAND 1 74.5981 53439931
forward LGD
GGATGACTCTAAGGCCAGACTCAGAAGGACAAACCCCCAAGACTTGGGGTTCAGTACATGCAGGATGGCGCAGCC
TAAACGAGGTCACAGCCAACAAATC[C/
T]GAAGCAAACAGCTCTAGTTACACACCAGAGAGCTTTGCAAATTACCATAATGACTTGGCTATAAAGTGGCACC
ACATATAAGGTGACTCCCCACAAGAAT C/T 564 0.287 0.081
0.201 0.163 28.1% 196 99.4% 154 80.8% 52 66.2% 74
NA 0 25.8% 66 32.5% 40 27.8% 90
40.5% 42 NA 0 98.7% 76 100.0% 78 80.8% 52
66.2% 74
rs683880 AB_ASSAYS_ON_DEMAND 1 77.2612 54916813
forward LGD
GAATGATGACTCACTTTCTCTTATGGCAAACTAGTAAAATATTATAAAGTTTAACATGAATTAAAACAAAAATTT
TAAGTGCACCTCAACTAGCAAGTAG[C/
T]CGAATGAGAAACAAGAGACATTCATTTACTTGCTAATATAATTACTCTCCAAGCTAGACAAATTCAGTATCTC
TTCATTCTAAGATATGTTAAGCTTACC C/T 2,125 0.168 0.064
0.502 0.040 79.3% 198 21.8% 156 1.7% 58 5.0% 80
NA 0 74.2% 66 87.5% 40 79.3% 92
75.0% 40 NA 0 14.1% 78 29.5% 78 1.7% 58
5.0% 80
rs1418978 AB_ASSAYS_ON_DEMAND 1 78.9975 56341642
forward MIT
CTTCCTTCTCTCTCCCACATCCATGTTTCTGCCTGCCTAAGAGTGGGGGCCAGCAGTGGCAAGATCAGATTACCT
CAAGGTCACATTACTGGGCAAAGAG[C/
T]TAGACTTCTGCAGGGCCAGAAGAGGTTTGGGAGCTCATTTCATCCATTCCCCTGTGCCCAGGCAGCCCTGGAG
TAAATCAGAAGGGAATAGATGGGACTC C/T 1,446 0.222 0.005
0.247 0.005 12.7% 332 75.8% 298 69.0% 58 68.8% 80
11.0% 136 7.6% 66 13.2% 38 18.5% 92
9.5% 42 77.1% 144 70.5% 78 78.9% 76 69.0% 58
68.8% 80
CV3024286 APPLERA_RESEQUENCING 1 79.9648 56717241
forward LGD
TGACTCCACCTGTGAACGTCTCTACTATGGAGATGATGAGAAATACTTTCGGAAACCCTACAACTTTCTGAAGTA
CCACTTTGAAGTAAGTCTGAACAGA[G/
T]GGGCTCTGAGGCCACTGTGGTGTAGGTGGCAGAGAGGCAGAGGCCTATTTGTGGAGATGACTTGCTCTGGAAG
CTTTTGTTTTCTATAAAGTTTGCTGGT G/T 695 0.206 0.004
0.303 0.040 59.2% 196 0.6% 156 1.7% 58 11.3% 80
NA 0 65.2% 66 60.0% 40 54.4% 90
69.0% 42 NA 0 1.3% 78 0.0% 78 1.7% 58
11.3% 80
rs563921 TSCAF 1 80.41 56972301 reverse MIT
AACACCAAGGAGATGTGAGCCGCATTGAGTAGAGAAATATGGAAGTGCGAAGGGAAAGCAGTGTGCATGATTGGT

GGCATTGGTTGATGGTATCGGACAT[A/
G]CCTTTGGGACCAGAGAGAATTTTCAAATGAAAACACTTAAGTAAAAACCATGTTCTTCCTTTCAACAGGGCGT
TGTTGCTGGCGCTCGTTCCAAAGGAGA A/G 225 0.278 0.009
0.326 0.040 80.3% 198 7.7% 156 14.3% 56 25.0% 80
NA 0 90.9% 66 65.0% 40 79.3% 92
88.1% 42 NA 0 10.3% 78 5.1% 78 14.3% 56
25.0% 80
rs7528953 AB_ASSAYS_ON_DEMAND 1 81.1709 57438037
forward LGD
TCCTTGATATTGTTCCCATAATATTTCTCTGTTCTTGTCCTGATTTCAGCCCAGATCCTCTGGTATACGATGAGT
CACTGACTCATTTTCCTCCTAGGTG[G/
T]TGAGCTTCCTAAGGAGGTCATCCTAACCCTGCTTGGAAAAATGTTTCTTGGTGAAGGAGAGTTAATGAAAGGA
TGAGGGTGAGTATGTTAGGATTGCATA G/T 981 0.171 0.000
0.240 0.000 76.3% 198 17.9% 156 19.0% 58 16.7% 78
NA 0 74.2% 66 82.5% 40 75.0% 92
64.3% 42 NA 0 11.5% 78 24.4% 78 19.0% 58
16.7% 78
rs1815274 AB_ASSAYS_ON_DEMAND 1 83.1125 58671135
forward LGD
TATCCTCTCCCTTGGACAGGACTAGGGACGTGCGGTCCAGGCCTTTCTCTTGGGCCCCTCTTTCACCTACCTCCT
TGCACATCAGAGCTCTTGGATCTAT[C/
T]TCATGACCTCTGTGTCTCTCAGAGGTCATAGTTTGCTTTCTTATTACCAGTGGATCCTCTGGTTGTCTTCATT
CAACACCCACCTCCTGGGCCAGGCACC C/T 1,963 0.081 0.034
0.265 0.002 80.9% 194 42.0% 150 20.8% 48 37.2% 78
NA 0 83.3% 66 89.5% 38 75.6% 90
81.0% 42 NA 0 35.1% 74 48.7% 76 20.8% 48
37.2% 78
rs2716125 AB_ASSAYS_ON_DEMAND 1 83.6466 58860502
forward LGD
TGCTGCCAATAATTTGATAGACAATCACTTATCCATTTAAGTAATAAGTTTAGTCAGAGGGAAGATTCTTTTTTA
TCATCTCTGTGGGAATGTGGGATGG[C/
G]ACACCTTTGTGACTTATTATACAACCACGATAGGTAGGAACCAGTGCTGGCCTTTGTAGTCTCAGGGTCTATA
TGAAGAGAGCCTCAAAAAATGATGCTT C/G extended_map 0.179
0.014 0.173 0.001 73.2% 198 13.6% 154 24.1% 58
11.3% 80 NA 0 74.2% 66 77.5% 40 70.7% 92
64.3% 42 NA 0 6.4% 78 21.1% 76
24.1% 58 11.3% 80
rs1056513 AB_ASSAYS_ON_DEMAND 1 87.9051 61750215
forward LGD
AAAGGAATGATTATGTCGTTTAAACGTTTTCTTCCCCCCACCCCTTTTTTTGTCACCATAGGTCATTCCTAATGT
ACATAACAAGGCCAACAAAATCACC[A/
G]GTAACCAGAACCAGGACACCCAAGAAAAGAAAGAAAAGGTAACTTGAACCTCTCAAGGATTTAAAAAATGTTT
TTGTTTTGTTTTTGTTTTTGTTTTCCA A/G 489 0.298 0.045
0.186 0.010 96.5% 198 30.1% 156 55.2% 58 41.2% 80
NA 0 97.0% 66 100.0% 40 94.6% 92
88.1% 42 NA 0 24.4% 78 35.9% 78 55.2% 58

41.2% 80
CV3067292 AB_ASSAYS_ON_DEMAND 1 88.1044 61956096
forward LGD
TTAGCTTAAAATTTTGATGCGGAATAATTTGGTAGAAAAAAATATTCATTATTTGCAATGTTTTCGTCTACATAA
GAAAGGCCCTTCACTATGTATACAG[C/
T]TTTTGTTGAACAGCCACTAGCCTTAAAAGACTACACAGTATTAACCTCACATATTCATTTAAATGAATAAAGG
GACAGGTAATGGAGATCTAGCAGATTG C/T 2,079 0.077 0.042
0.024 0.371 52.5% 198 89.6% 154 70.7% 58 20.5% 78
NA 0 40.9% 66 52.5% 40 60.9% 92
54.8% 42 NA 0 91.0% 78 88.2% 76 70.7% 58
20.5% 78
rs596985 AB_ASSAYS_ON_DEMAND 1 90.1952 63646952
forward LGD
GCCTGAAAAGCTCAGACTCGGAGCGTCCAGGAGCTGAGATGCCTGTGCTGGACAGCCCCTGATTGGAGAGGAGTT
AATGATCAGTGCCCCTAAAATTGTC[A/
G]CATAGGCAGCTGATTATGAGAAATTGGTCCAGCTGTTTAGGTTACTTTTGAGATCAAAATTTTGTGTTTTGTC
AGGGGAGTGAGTTGTCACAAACCCCAT A/G 62 0.374 0.039
0.371 0.081 83.8% 198 1.9% 156 13.8% 58 23.1% 78
NA 0 86.4% 66 77.5% 40 84.8% 92
73.8% 42 NA 0 3.8% 78 0.0% 78 13.8% 58
23.1% 78
rs285357 AB_ASSAYS_ON_DEMAND 1 90.4182 63825415
forward LGD
CTCATCATGTATATCAGTCAATTCTGGACTACAGTCTAGTAGAATAGGATAATTGGAAATCACACCATCTCTCCC
CTTATTTTGGCTTTCCTGCCAAACT[A/
G]TGATGTCCACATGAAAGAACAGATGCATGGATATGCGTCTCTCAATCAGTTCAACACATTGAGCCCTTGGCCA
TGGCTTCCATCTCTTACTCAACCTCTC A/G 1,158 0.223 0.009
0.418 0.058 85.9% 198 21.4% 154 12.1% 58 2.5% 80
NA 0 90.9% 66 85.0% 40 82.6% 92
69.0% 42 NA 0 23.1% 78 19.7% 76 12.1% 58
2.5% 80
rs705546 TSCAF 1 91.2656 64099525 reverse MIT
ATCTGGAAGCTACAGCTGGAGAATTGAAAAAAGAGTCGTGACCCACTTTAGTCTGATGCACTGACACGAGTGGGA
AACCAGGAGCTCATAGAGTACAAGA[A/
G]GCTGCACACATTTAGCCACCCAAAGTGGGACAAAAACAATGAGTTCATGGGGATATTTGTGCAGCCACCATGT
CTGTGAAGTGAGGCTGTGGAGAGATGT A/G 913 0.252 0.008
0.231 0.087 2.3% 302 59.0% 288 48.2% 56 24.3% 70
0.8% 128 0.0% 52 2.8% 36 5.8% 86
5.6% 36 58.8% 148 64.7% 68 54.2% 72 48.2% 56
24.3% 70
CV1766307 AB_ASSAYS_ON_DEMAND 1 91.6599 64759206
forward LGD
ATCACATGGGGACATTTCCATTGGTTGCTGTGGTGACTATGTCACAAATTAGAGTCCCTCTGGCTAAGATTCTCA
GGCCCAGGGTGCTGTGACTAAACCA[C/
G]TGTAACCACTTCACATCTACTCATACACTCCCATTTTCTAAAACTTCAAAACCACCAGCCAAAAACAACTTTA
TTCAAACACAGAGTTTAGAATCAAGGC C/G 1,432 0.201 0.250

0.002 0.211 17.7% 198 79.9% 154 21.4% 56 26.3% 80
NA 0 18.2% 66 15.0% 40 18.5% 92
9.5% 42 NA 0 76.9% 78 82.9% 76 21.4% 56
26.3% 80
rs4655604 AB_ASSAYS_ON_DEMAND 1 92.7191 66077426
forward LGD
ACACACACACTCTATACAGAAACATACACCTTATTATAGAAACATTTTCTGTAAGCAAAAACTCCTAGGACGGAG
TTCCTGGGATACTGAAGGGAGAATG[C/
G]GGAAAGAAGAACCTAGTGACTCCCTTTAAGAGCTCCACTGAGGTCATCACCTGCCAGAGGTTTTAATCCAAAT
GAAACTGGCTTTTTGTCAGATGCGAGA C/G 1,935 0.139 0.043
0.080 0.141 55.6% 198 5.8% 156 22.4% 58 42.5% 80
NA 0 54.5% 66 60.0% 40 54.3% 92
50.0% 42 NA 0 6.4% 78 5.1% 78 22.4% 58
42.5% 80
rs1341244 TSCAF 1 92.9245 66271755 reverse MIT
ATTTTATCTATAAAAATAGAAGTGATTTCAGATGCTAGAAGGGAGTGTGCAGTGGTTTCTAAATTCTAGTGGACA
TGAGAATTTCACCAAGAACTTATTT[A/
G]ACTTACTTATACAAGTAATTATAAATCAGTTGATCTGGATCAAAGCCCACAGATCTGTGTTTTAACAAGCATT
CTGAGATTATCTGATTGAGAATTGCTG A/G 1,680 0.155 0.053
0.456 0.029 23.8% 298 79.3% 246 98.0% 50 93.8% 80
19.6% 102 18.2% 66 27.5% 40 31.1% 90
5.0% 40 75.9% 108 82.4% 68 81.4% 70 98.0% 50
93.8% 80
rs2755241 APPLERA_RESEQUENCING 1 93.8461 66847324
forward MIT
GGTGTGTGCCACCATGCCTGGCTAATTTTTTTTATTTTTGATAGCAATGAAGTTTCACCATGTTGCCCAGACTGG
TCTTGAGCTCCTGAGCTCAGGCAAT[A/
C]CACCCACCTCAGCCTCCCGAAGTGTTGGGATTATAGGAGTTCAGCCACCACACCCACCCATACAGCCACAGAG
CCCAAATCTTGATTAATGGGAGAAAAA A/C 2,090 0.059 0.047
0.251 0.028 71.7% 198 37.0% 154 13.8% 58 18.8% 80
NA 0 71.2% 66 72.5% 40 71.7% 92
71.4% 42 NA 0 42.1% 76 32.1% 78 13.8% 58
18.8% 80
CV183758 AB_ASSAYS_ON_DEMAND 1 97.4418 69695303
forward LGD
TATATTTAAGTCCATTTCTTTTAACAGGTGTTCATTAATCACCTTTGGGGAAGCTTTTCTTAGCTAAATTGTATA
AATTTAAACGTTAACCTTTCTGTAA[A/
G]GGTAATGCTTTTGTTAAGAGCTAACAAAGTTGAGAAAGAAATAAGGAATTCAAAATAGTGAAAAAAAGTTTCT
CAAAATGACAGTATGATATGTTCATTT A/G 837 0.206 0.000
0.241 0.014 1.0% 196 47.4% 154 46.4% 56 61.5% 78
NA 0 1.5% 66 0.0% 38 1.1% 92
0.0% 42 NA 0 48.7% 78 46.1% 76 46.4% 56
61.5% 78
rs4636401 AB_ASSAYS_ON_DEMAND 1 99.5577 72537548
forward LGD
TATTACACAAAAGAAATCAATACATTAGCTATATAATATTTTGGTCAATGGCTTTCATTGATTTAGTGGACATTT

TGTATCCATTACAGCATGTGTTTAC[C/
T]TGGCCTACTAAGATTACCCCACTAACAAATCCCTTTAAACTTGTGGAAGTCATCTTCATCCTTTGTCTATACC
TTACTTCCACATCTCCAGGTTCTTGTT C/T extended_map 0.223
0.023 0.174 0.153 10.1% 198 72.4% 152 55.2% 58
26.3% 80 NA 0 13.6% 66 2.5% 40 10.9% 92
7.1% 42 NA 0 68.4% 76 76.3% 76
55.2% 58 26.3% 80
rs6662385 AB_ASSAYS_ON_DEMAND 1 99.5592 72543491
forward LGD
TAAATATTGTTTTGGGTTATTGAAGTTGCCTGCTTATTATCTGTATTCTTAAATGGATGTTCCATTATGAACACA
TAGAACAATTACAGTCAGCAAAGGT[C/
T]AGCCTTCCTTTCTTTTTAGTACTTCAAGAATGTCTATCCACATACATGTTCGACCTAGCATTTTATGCTCTTT
CCCATGGTTCTTTCTATTCTTCTGACT C/T 139 0.318 0.039
0.221 0.142 3.5% 198 72.7% 150 50.0% 54 28.2% 78
NA 0 0.0% 66 2.5% 40 6.5% 92
2.4% 42 NA 0 65.4% 78 80.6% 72 50.0% 54
28.2% 78
CV2168263 AB_ASSAYS_ON_DEMAND 1 99.9922 74248060
forward LGD
ACTTAGACAAGTGACTTAATTTAGGCAAAGAAACACCAGCAAACACGACACAAGCAGAGGCTTGATATATACTCA
TTCATAGGAATTTGCCCTCTGGAAT[A/
G]CTGCTATTACCATGTGAGAAGCCCAAGCTGGGAGTAAGGAGGAGGACGTGGCTGCAGCCAGAGTAGGAGGTTG
CTAAAGATTTGGGAGTTTTAAGATACC A/G extended_map 0.194
0.025 0.438 0.011 12.6% 198 71.8% 156 87.9% 58
82.5% 80 NA 0 10.6% 66 0.0% 40 19.6% 92
9.5% 42 NA 0 69.2% 78 74.4% 78
87.9% 58 82.5% 80
rs1040070 AB_ASSAYS_ON_DEMAND 1 100.0457 74347805
reverse MIT
GTCTATGTCACTCATGTCTCATCTAGATTACCATATTATCCCTAGCTCCATGTTTGAGTCTGTACAATCACTGAC
AGTAAACACAGCTGCAGAAATCATG[C/
G]CCCTTTATGGTCCCTCACAGGTTCGAGTCATGCCCCAGGGCTATTTCAATAAAGACTGGTGGCTGCTATATCC
AGTCCCATCCAGATCTTTTCATGCTCA C/G 1,299 0.16 0.146
0.008 0.299 9.2% 306 59.5% 264 15.5% 58 2.5% 80
10.5% 114 4.8% 62 10.5% 38 9.8% 92
16.7% 42 51.8% 112 69.2% 78 60.8% 74 15.5% 58
2.5% 80
rs7527057 APPLERA_RESEQUENCING 1 100.1474 74541936
forward LGD
AAAGAAAAGATAGGGTAAGTACAACTGGGGGAAAGACAGTACCTCTAATTACATAGGAAATCCATGAAAGAATTA
ATCATCATAAGAGAAGAATCATTTT[A/
T]CCAGTAGCCCCACTACCATGAATGATATTTTCATGAGCCTCGGCCACCTTCTCCAATGGATATTGAGAACCTA
TCACAGGTTTCAACCAGCCAATTTCCA A/T 1,078 0.221 0.064
0.084 0.147 99.0% 196 50.0% 152 79.3% 58 91.0% 78
NA 0 98.5% 66 100.0% 40 98.9% 90
97.6% 42 NA 0 44.7% 76 55.3% 76 79.3% 58

91.0% 78
rs1322840 AB_ASSAYS_ON_DEMAND 1 105.0435 80434591
forward LGD
TTAATTATGAACTATTAGAATATGAAAGCATTATTAACCACTATAAATCAGTGTAAAAACCAGTGGTATAGGTTA
GGAGCTACATTTTTGAATTATGTTT[A/
G]AAGCAGTTGAAAAGGGTGAAGGATTGTGTGGGAAGTGGTGAGGGGCTGATGGAATCAGGCCAGGTTTTGCTGG
ACTCTTGCCTACAGTTATAATTAGATG A/G extended_map 0.179
0.001 0.296 0.126 78.6% 196 19.2% 156 15.5% 58
60.0% 80 NA 0 83.3% 66 72.5% 40 77.8% 90
85.7% 42 NA 0 20.5% 78 17.9% 78
15.5% 58 60.0% 80
CV1662625 AB_ASSAYS_ON_DEMAND 1 105.0584 80457373
forward LGD
ATCAAAATATTTAAGTTAGAAACACATCAGCATTTTTACTCTTGAGGTGTTTGGAAGACCTCAAAAGAAGACAAT
GCCCAACAATGAAATGTACCCTTGA[G/
T]ATTTAATTGTTCATGAGAAAGAAAGACCATTATGGCTAAAAGGCTTCTTGCCTTTTTTATACATAGATACTTT
TAAATAGCAAAAAAATGAATACTTCAA G/T 641 0.21 0.000
0.327 0.146 20.2% 198 84.2% 152 86.2% 58 41.0% 78
NA 0 16.7% 66 17.5% 40 23.9% 92
11.9% 42 NA 0 82.4% 74 85.9% 78 86.2% 58
41.0% 78
rs1195858 AB_ASSAYS_ON_DEMAND 1 106.0348 81098244
forward LGD
TTCCCAGCCACCTTTTTTTTTTTAAGCAGTAAGTAATCAGTGTTTAATTACTTGACTTTTACATGGTACAACCTT
TGAGACCTTGCTGACTTACTGAGGC[A/
T]TCGAGGTGTATTGTTCAGAATGTTCAAAGACCCTGTATGTCTTGTTAGCATTAACAATGGTAAGGTTAGAAAT
GGAGAAAGTGGACTGTAACATGCTCTT A/T 1,531 0.115 0.013
0.082 0.234 92.3% 194 51.9% 156 65.5% 58 98.8% 80
NA 0 89.1% 64 97.5% 40 92.2% 90
95.0% 40 NA 0 56.4% 78 47.4% 78 65.5% 58
98.8% 80
rs2296234 AB_ASSAYS_ON_DEMAND 1 106.5668 81394479
reverse MIT
CATCTTAAGTGGTAATTTATTGACCTCATGGAATTTTAAATGAACCTTTTATCAGTGTAAATCCACCTCTTTCCT
CCAAGTTCTTAATATTTAATGAGGC[A/
G]GCCTCTCTTGGTCTTTAAAAGGTGCTACCAGCCTGTCCCGCTCTTTCCAGTTTCAACATGTTCTTGAATTTCA
TAGGAAAATAAGTTTACTCTTGACCTG A/G 247 0.262 0.081
0.115 0.103 9.6% 178 77.3% 150 44.4% 54 40.0% 80
NA 0 1.6% 64 17.9% 28 12.8% 86
10.0% 40 NA 0 79.2% 72 75.6% 78 44.4% 54
40.0% 80
CV1531410 APPLERA_RESEQUENCING 1 108.5884 84422164
forward LGD
TTAAACATGGTATTGCAACATCATAATATTTTTACTAAGATTAAACTGAAACTGCAGATTAAAATGTCTAAGTTT
TCCAGAAACATACTTCTAATATCAA[C/
T]ATAATCAATAGTAGTCCAATTTTTCTGTTTTTATAAATAAGGTAACAATATGCCCAAATGAGAAGGGGGAAAA

GTTATCCACCAACACCTTTTTGGATTA C/T 1,936 0.068 0.003
0.139 0.060 31.8% 198 69.3% 150 75.9% 58 92.5% 80
NA 0 30.3% 66 25.0% 40 35.9% 92
19.0% 42 NA 0 70.5% 78 68.1% 72 75.9% 58
92.5% 80
rs3768241 AB_ASSAYS_ON_DEMAND 1 108.8065 84571925
forward LGD
TTTCTCTCCCACCACAACTGAGTTCTCATTTGGCAGGCTTGTCAGCATATTCTTTGTACCCCACTTCGGTAACAG
GCATCATCACTCACTCCAAGGTTGG[A/
T]GCCCAGTCAAGATTGCTGAATGAATGTCCAAGTTCAAGGATGTATTAGTGTAAGGTTTGCTGCTGTTTTAGTA
TGATAGACAAGTCAACACTTTGGCCAT A/T extended_map 0.137
0.021 0.089 0.004 12.1% 198 60.4% 154 43.1% 58
67.5% 80 NA 0 15.2% 66 10.0% 40 10.9% 92
4.8% 42 NA 0 65.8% 76 55.1% 78
43.1% 58 67.5% 80
rs3768240 AB_ASSAYS_ON_DEMAND 1 108.8094 84573967
forward LGD
AAATCCAGCTATTTAACCTGGAAAGACTAAAAACTAGCTATTTATGATTCCAAAGCCTCACAGGCCTGGTTTCCT
CCTGACATTCAACAAATATGCTGAG[A/
C]AAATGATATCAATTCTCTGAGCCTATCGCCTCATTATAAAACAACATGGCTAATGATGGGTTGTACTTACAGA
TTATTTCTATGATGTTGGCTTGCTTTT A/C 1,391 0.136 0.021
0.089 0.004 87.9% 198 39.7% 156 56.9% 58 32.5% 80
NA 0 84.8% 66 90.0% 40 89.1% 92
90.5% 42 NA 0 34.6% 78 44.9% 78 56.9% 58
32.5% 80
rs263466 AB_ASSAYS_ON_DEMAND 1 110.9662 86606149
forward LGD
CCTTTTCTTGTAATTCCTATGTTGTTTTCAATGTATGATCTTCTGGAAATGGGTTTTTCAAAAATACGTTATGCA
GAAATACATATTACATTGTAGCAGA[A/
G]TTGCCTGCATATTTAAGATTTTATTATAACCTATTGAAATTAAACATTTATTAGTATTCCAAATATTTTATTA
ACTGAACGAAGTCAGCATAAGATTCCA A/G extended_map 0.141
0.003 0.170 0.005 25.5% 192 78.8% 146 74.1% 58
71.6% 74 NA 0 17.7% 62 27.5% 40 30.0% 90
31.0% 42 NA 0 77.1% 70 80.3% 76
74.1% 58 71.6% 74
rs6428492 AB_ASSAYS_ON_DEMAND 1 113.4167 88934700
forward LGD
CAACATGCCTCCTTGGACAGTGAGCTTTATTTGATTCCTGGAGATATTAAAGAAAAGCACTAAATCAGAAGTCAG
ATGATATGGATTTGGGTCAGGACAT[C/
T]GATGCTACCAAACTAAGGAGGAAGTAACTTAATTTTGCTGAGTTTATAGTAGCCTTGAATGATCTTTTGTATT
TCAGTGGTGTCAGGTTTAATACCTCCT C/T 818 0.183 0.121
0.039 0.062 28.8% 198 88.8% 152 51.8% 56 64.1% 78
NA 0 30.3% 66 27.5% 40 28.3% 92
9.5% 42 NA 0 85.5% 76 92.1% 76 51.8% 56
64.1% 78
rs4658284 APPLERA_RESEQUENCING 1 116.2087 91915926

forward LGD
AAAACTGAGAGGGTTGTGTGTTTTGTTTCGTTTTGTTTTTTTTGAGTTCTTGCATCCTTTAGTAGCGAATCTTTTT
ATGAAGCTGCCCTGCATACAAAGGA[A/
C]ACTGGGGAAATATTAGTGAAGAGGGGATGTAGATAGATGATATATAGGGTTGACTAGAGCCCATGTCCCACTG
AGGGGACAGTCTAAATGGCTGCAGGTA A/C extended_map 0.09
0.006 0.088 0.023 37.1% 194 80.0% 150 72.4% 58
64.1% 78 NA 0 42.2% 64 28.9% 38 37.0% 92
52.5% 40 NA 0 83.3% 78 76.4% 72
72.4% 58 64.1% 78
rs4847399 AB_ASSAYS_ON_DEMAND 1 116.8402 93056407
forward LGD
GGAAGTTCACTTGTCTCTTTCGGGCTTATTATGTTATTTTGAGCGTTGAATTAAACTATGTATGTGGGGGCAGCC
ATCACAATTCCTGGCACACACAAGC[A/
G]ATTAGTAAACTATAAGTACGTGTGAGTCTGTGTGTGAACTTTGAAGGTCTCCAATGGTTAAAAACAAAGATCC
TTTCTCTTCACATATGAACTGTTTCAT A/G extended_map 0.297
0.013 0.253 0.001 99.0% 198 38.2% 152 51.9% 54
33.8% 80 NA 0 100.0% 66 100.0% 40 97.8% 92
100.0% 42 NA 0 38.2% 76 38.2% 76
51.9% 54 33.8% 80
rs556888 AB_ASSAYS_ON_DEMAND 1 116.9613 93207128
forward MIT
CTACTATACTTACATTATTAAGCTTTTGAAATTAAAATATCATCTCTTTTTTTAGGCTTTTTGGTTTTTTAGTGT
ATGTAGTCTCATTCCTAGGATCCCA[A/
G]AGTTCAGTCAGAGGACCCAAATGAAAGACATGAAAAAAATTGAAATGAAAAGTTTATTTAACAAGGATTGATT
TATTAAAAATTTATCACTTTAAGTTTT A/G extended_map 0.144
0.027 0.369 0.067 71.0% 176 17.1% 140 3.8% 52
0.0% 80 NA 0 75.8% 62 70.0% 30 67.9% 84
42.1% 38 NA 0 17.6% 68 16.7% 72
3.8% 52 0.0% 80
rs3767967 AB_ASSAYS_ON_DEMAND 1 117.1758 93474034
forward LGD
TCTCTCCTATAAATACACAGTTTAAAAACACCACAGAATTAAGAATAGCTGCCCTCAAGTTAAAAACAACTCCTC
TTTATAACATTTGAAATGCTCAACC[A/
G]TAAAAGAATGGTATTATAAAGAGGGTGCTGGGTACAATCATATTTTAGCTATTTTTTTGTTTATGTGAAATCA
TATGTTCACCATTGTCTTGTAATGTAT A/G extended_map 0.232
0.043 0.123 0.001 2.6% 196 57.1% 154 32.1% 56
61.3% 80 NA 0 0.0% 64 2.5% 40 4.3% 92
2.4% 42 NA 0 51.3% 78 63.2% 76
32.1% 56 61.3% 80
rs236307 TSCAF 1 117.2406 93554718 forward MIT

GTGAGGTAGGCCCTCTCTCCAACAGGGCATGGAGGGAGATGGCAGGAGAAAGATATGCCTGCTAGGTACCTGCTT
TTCACTGTTTCAGCACATCTGGAAC[A/
G]TAATACTGCCCATAGCCCCAAACCCTCCCCAAAGCAGCCCAGAATCAGGGCATCAAGCCTTACACTGAGGCAC
TCTTGGGCTTTGTCAAGCGGCCCCATG A/G 150 0.306 0.046
0.670 0.005 9.0% 310 81.9% 260 98.3% 58 88.7% 80

7.0% 114 10.6% 66 5.3% 38 12.0% 92
9.5% 42 84.0% 106 76.3% 76 84.6% 78 98.3% 58
88.7% 80
rs997370 TSCAF 1 118.4848 95091169 forward MIT

CTAGTTAACTGTAGAGAGGAGATATTAGATTAGGTAGCTATTGTCTTATAACAAACAATTGAAGGACCTGGAGAT
GTCAGCCTAGAAAAGCTAAGAACTA[G/
T]AAGGACATGATGGCCTTGAAATGTCCCTGGAAATGTGAAAGGACTACTAAGTGGAAGGGGGAGTAGACTTATT
CTGGATTGATTCTGATGTTGGGACTAG G/T 838 0.22 0.096
0.076 0.296 82.1% 312 17.3% 266 51.7% 58 80.0% 80
88.8% 116 86.4% 66 73.7% 38 73.9% 92
83.3% 42 20.5% 112 15.4% 78 14.5% 76 51.7% 58
80.0% 80
rs947726 TSCAF 1 121.5479 99323208 reverse LGD

AAGGAGGTCGTTTGGAGACAAAGACATAATTGTAAGTGTGTATAACCAGGAGGCACAGAATCTCTTAACCTATGT
AACTGTTGTCTGTCACCTGAAGTCT[C/
G]AATTTAGTTATTTTCAGATCCTTGGTGTTATTACTGAGGGCTGAGGCTCCTAGAGATTGGCATTCTGGACATA
TGAAGGTCAAATTTTAGAGCTTAAGCC C/G 625 0.228 0.145
0.053 0.084 76.3% 198 9.7% 154 50.0% 58 38.5% 78
NA 0 74.2% 66 87.5% 40 72.8% 92
90.5% 42 NA 0 13.2% 76 6.4% 78 50.0% 58
38.5% 78
rs7524322 AB_ASSAYS_ON_DEMAND 1 122.4717 100510653
forward LGD
AGTGCAGTGGCCTCTCCTCATCTTGATGGACTCGGTAGGCTCCCCCAGGTGTATCAAGCTAGAGCTATTTTTCTA
TTTTTCTGTTTTTCTATTTTCTGAT[C/
G]TCTAAACCCTGCCTATTGGTCCAGAGGTTAAATTCAGAGTGATCTATAGAAACATGGCCCAGTTTCCCAAAAA
CATAGTTGAGATTTGGGACAGATTTCC C/G 1,714 0.088 0.154
0.003 0.036 9.7% 196 45.5% 154 5.2% 58 23.7% 80
NA 0 10.6% 66 2.5% 40 12.2% 90
4.8% 42 NA 0 44.9% 78 46.1% 76 5.2% 58
23.7% 80
rs3908854 AB_ASSAYS_ON_DEMAND 1 124.2809 102973679
forward LGD
ATATATTCAAGTGAGGGACACCTTGTGAACCAACAATCCACAGGTAGCAACATGGAGAGGAGACACTGATAAACT
CTAACAGGAGAGGCAGAGGGTGTGG[C/
T]ATGGGTCACATAAGGTCCTGCAGACTATTGGAATAACTTTACAAATGAAATGAAATGCCACTGGAAGATTATG
AGCAAAGAGGTGGCACACTTCATTCAT C/T 1,655 0.083 0.034
0.271 0.082 76.0% 196 35.5% 152 15.5% 58 7.5% 80
NA 0 79.7% 64 80.0% 40 71.7% 92
81.0% 42 NA 0 33.8% 74 37.2% 78 15.5% 58
7.5% 80
rs1887914 AB_ASSAYS_ON_DEMAND 1 124.5779 104054625
forward MIT
AAGTCAGCAGCATATCTTTATAACTTCATATCCAGAAATGTAAGCACAGTAAAAATATGAATGTGATTATATTCA

CTTTTATGTATTTAGGGACACAGAC[A/
G]TACTCTACTGGTAATTTTGCCTGTCTGTCCCTCTTATATTTGGCCCTTCTTTTTCTTTAATAGCTATGTCCCC
CCAATCTGTGTGTAAGTGTTTCAGTCA A/G 1,393 0.119 0.052
0.062 0.027 40.8% 196 0.7% 152 13.8% 58 8.7% 80
NA 0 35.9% 64 57.5% 40 37.0% 92
61.9% 42 NA 0 0.0% 76 1.3% 76 13.8% 58
8.7% 80
rs345275 AB_ASSAYS_ON_DEMAND 1 128.0328 107848477
forward LGD
AGTACTAATGTTATTAAGGGTCCTACATCATCGTTCAGAATAGATTTTTGTTAGAGACATCACTGAGATCTCAAT
GTCTTTGCACATTCTTCATCTCACA[A/
T]AACTCTCTCTCTACTCAGTTTTATTTCTCAAACCTTCTTCCTCTGTAGTAACCATTCATGTCTCTGTCCTCTT
CTTGGTCTCATCTCTCTCACCCAGCTG A/T 678 0.188 0.003
0.254 0.053 65.2% 198 5.8% 154 8.6% 58 25.0% 80
NA 0 65.2% 66 62.5% 40 66.3% 92
59.5% 42 NA 0 2.6% 76 9.0% 78 8.6% 58
25.0% 80
rs501163 TSCAF 1 129.9969 109377161 reverse MIT

CTGTCCATCAGCAGGGGCTCAATGCTGGAACCCCACAGAAAAGTCCCAGAGAGCTCCTGGGTCTCCTATTTATTA
ATAACACAATAAATAGGTCTACAGG[C/
T]TGAGTGGCCCTTCCTCACTAGCAATCAGGGTAATATCCTCTGCATGTTCTTCCCATCCAACCTTCCCATCATC
AGCCTGTCCCTCCACAGGCCCTGCCCT C/T 408 0.2 0.014
0.412 0.034 17.2% 308 78.8% 260 90.4% 52 58.8% 80
22.3% 112 16.7% 66 17.5% 40 11.1% 90
16.7% 42 75.0% 112 78.9% 76 84.7% 72 90.4% 52
58.8% 80
rs3887820 APPLERA_RESEQUENCING 1 131.9559 110446807
forward LGD
ACAAGGCTGTTATTAAATGATAGATTGATTTACCTGACCAGAGACGTGAAGCTCTCTTCCTTGCAGAGCTGATCA
GATGCTGCAGGAATCTGAGATGCAC[A/
C]AACAGGCAGCCCAACTCCTCATCACGTCTTCTCACTCGAGCTAGAAATAATGGTGAGTCATTCTGGGCAGAAG
GGCAGACTCTGGGTCCTGGAGGTGAGC A/C 1,595 0.086 0.227
0.012 0.107 56.1% 198 93.6% 156 43.1% 58 62.5% 80
NA 0 45.5% 66 52.5% 40 65.2% 92
59.5% 42 NA 0 94.9% 78 92.3% 78 43.1% 58
62.5% 80
rs911221 TSCAF 1 137.9351 116070840 forward MIT

TCTCCTCACCCAGGAGGGCAGAACCCCGCCCATCTCCTGTGGGCTCCCTCCATCCTCCTGAGCTCCGCGCACTCC
CCTGCCAGACCACACCAATCTCAGG[A/
G]GGTCACTTGGCTTTTTCTTTCTGGATAGGGGCTCGTCTCATTTCCATGGTTTCTTAACAGTTAGAAGTGCTTT
CTATTTAATACTTAGATTTTAATTCCT A/G 1,838 0.154 0.017
0.356 0.001 61.4% 298 7.8% 268 0.0% 58 8.7% 80
57.5% 106 59.7% 62 50.0% 38 71.7% 92
47.6% 42 7.1% 112 5.1% 78 11.5% 78 0.0% 58

8.7% 80
rs1414272 AB_ASSAYS_ON_DEMAND 1 138.6393 116462249
forward LGD
CATGGATGAGAAAGTAAGAAAAGAGGGCAGCTGAAGAGGCCGGGGCTGTTCTTCCTAGCATGCCACTCTCTGGTG
TCTTGACTCTCGTTTCTGCCAAACC[C/
T]TTGGAACTACTCCCACAAAGCTTAGGAATCCCAGAATGTAGTGAGCAAAACACTGCTCAATCCTGCATAAATG
CAAATTGTCATTTTCATTGCATGCCTC C/T 1,454 0.233 0.001
0.294 0.038 8.6% 198 71.2% 156 69.0% 58 90.0% 80
NA 0 6.1% 66 10.0% 40 9.8% 92
4.8% 42 NA 0 76.9% 78 65.4% 78 69.0% 58
90.0% 80
rs2801939 APPLERA_RESEQUENCING 1 139.3412 116968667
reverse MIT
GAATAATAGTACCTGCCTCATAGAGTTCTTGAGAGGAATAAATGAAACAACACTACGTGTTTAGCACAATGCCTA
AGCATTCAATAAAGGCTGACTCTTA[C/
T]AATACCACACTTACCCAGAATTCCTCCTTGTGGCTTCTGACTTTCTCGCCATAGTAACCAAGCCAATGCCTGC
TTCTGGTGTAGTAGCAAAGGGACCTGA C/T extended_map 0.233
0.003 0.262 0.004 91.2% 182 28.3% 152 34.5% 58
21.8% 78 NA 0 95.3% 64 92.9% 28 87.8% 90
90.0% 40 NA 0 31.6% 76 25.0% 76
34.5% 58 21.8% 78
rs6690137 AB_ASSAYS_ON_DEMAND 1 139.6 117102613
forward LGD
GATCACAATATCTGCATCCTCAGCTCCCTTCCCTTGACCAAGCCCCAACCCCACATACCCAGCTGCTTAGTGGAC
ATCTCCAATCGGCTGTCTAGAAGGC[A/
T]CCATCTCCCATCTCTAACCCGGCTGCTCCCCCTAGGTCACATCTTTTGGAACACAACAGCATCCCACACTAGG
CTGCCACAGTCAGAAACCTCAAAGTCA A/T 360 0.349 0.004
0.405 0.018 6.6% 198 83.3% 156 77.6% 58 70.0% 80
NA 0 6.1% 66 2.5% 40 8.7% 92
9.5% 42 NA 0 87.2% 78 79.5% 78 77.6% 58
70.0% 80
rs1146276 TSCAF 1 139.6 117150203 reverse MIT
GGCTCTCTCTGACCATGGTCTTCCTGTGCTCTGCCAGCTGCAGAGCTCTATACCCTGGACTATGAAGAAGAGATC
TTGTGTTCCAGGGCCCAGCTGTCCC[G/
T]GTGTGAGCCACTCATTGTTCTGATCTCCTCAAGAGAGGAGTGAAAACAAATTGAGGAATTTGAAACTTTTAGA
CCACACCCCCAAACACAGCCCTAATAA G/T extended_map 0.215
0.002 0.385 0.069 64.6% 178 2.6% 154 0.0% 58
22.2% 72 NA 0 71.9% 64 73.1% 26 56.8% 88
62.5% 40 NA 0 1.3% 78 3.9% 76
0.0% 58 22.2% 72
rs699780 AB_ASSAYS_ON_DEMAND 1 141.0284 119801822
reverse MIT
TTGGATCCTTTGGGTTTGGAGAAAGGGAATGTGAAAGCTGTCATTACAGACAACAGGTTTCAGTGATGAGGAGGA
CAACACTGCCTTTCAAACTTTTTAC[C/
T]GATCTCTTAGATTTTAAGAACTCTTGAATTGTGTGGTATCTAATAAAAGGGAAGGTAAGATGGATAATCACTT
TCTCATTTGGGTTCTGAATTGGAGACT C/T 794 0.293 0.004

0.359 0.000 12.4% 178 85.7% 154 81.0% 58 85.5% 76
NA 0 10.9% 64 3.6% 28 16.3% 86
11.1% 36 NA 0 85.5% 76 85.9% 78 81.0% 58
85.5% 76
rs1493695 AB_ASSAYS_ON_DEMAND 1 141.031 119859498
forward LGD
TGGATGTGAAGGGCAAGGCCAAGAATAATGAGACTGGAGCAAGCTGTGCTCAGCCTGAGGCACCCATACTTAAAG
GATGGGGATTTGTGGAAGAAGACAA[A/
G]GAAAGTCCACCCAATGTACTAGGAGATGGAAAAAGGACTGGTATGCACTGCCTGAAAAAGATCACACTAAAGG
AAGCTAAACATGAGCCCACATCTGGCT A/G extended_map 0.255
0.002 0.326 0.000 84.8% 198 15.6% 154 19.0% 58
15.0% 80 NA 0 87.9% 66 85.0% 40 82.6% 92
83.3% 42 NA 0 15.8% 76 15.4% 78
19.0% 58 15.0% 80
CV2696375 AB_ASSAYS_ON_DEMAND 1 142.09 144567591
reverse LGD
TAGGGAGTGCAGGGTCTCAAAAGCAATATTTCACTTAGTCACTAACTACCAAGATGGATATGATGCTGGACCACC
CCTAGAATCACGCTCTTTGGTCCCA[A/
G]TATTGACTTCTGAATTTAGAAAGAGCCAGCAGAGACTCTCAGGTAAATTCTGCAACTGCTTTCCCACCTCTGA
ATTTGGGACAAATCCTCCTCTTCCTCC A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps 54
0.375 0.308 0.044 0.103 90.4% 198 9.0% 156 71.4% 56
41.2% 80 NA 0 93.9% 66 92.5% 40
87.0% 92 85.7% 42 NA 0 12.8% 78 5.1% 78
71.4% 56 41.2% 80
rs2132397 AB_ASSAYS_ON_DEMAND 1 142.09 144888635
reverse LGD
TCACCCATAGCTGCTGGGGTTGGAGGAGCGGGGTAGTCCTATGAGACTGGGGAACTTTAGTGGGTCGATGGGTTT
ATCTTGGTAGCCCTTATGCTGGATG[C/
T]GGGAAAGACTGTTTCCTAGAGTTGCCTGGAGTGCACTGCCCTGCTGCAGTGCCTGTCCAACCAGAGGCTGGTG
GGAGGACAGGAGACAGAAGATTCAGAT C/T SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 1,273 0.235 0.002 0.368
0.061 37.2% 196 100.0% 156 100.0% 58 86.3% 80 NA
0 33.3% 66 35.0% 40 41.1% 90 40.5% 42
NA 0 100.0% 78 100.0% 78 100.0% 58
86.3% 80
rs1416703 TSCAF 1 144.8665 147351241 forward MIT

GGCTGCTGGCATGAGTTCTGTTGAAGCATTTGTATTGAACCTGGGCACTGTGACAGGAGGATGGGAAGGTGCTTA
CGTTCATTTCCCTTCCTCCCAGTGC[C/
T]TCTCCTCCCTCACTTCATCATTTTAGCCCCTCTGCCTGCAATATTTCCCTTCCGTGCCCCCGGTAACTGTGAT
GCATGGCAAATGGGCTGGCTCAGTAGC C/T 1,786 0.16 NA NA
NA 47.9% 94 99.0% 96 NA 0 NA 0
47.9% 94 NA 0 NA 0 NA 0 NA
0 99.0% 96 NA 0 NA 0 NA 0

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        NA      0
rs726864        TSCAF   1       146.0439        149616875       reverse MIT

CAGGGGCAATGATGAGCTAGCCTGTAATTATCGGTGCCTATATCCTCTCTACAGCTTGTAGGGACATATATTATT
ATGTTAAAAAAAAAAAAGCAATATG[A/
G]GGCTTGTTAGTGCTTGGAAGTATACAAGACATACTTCCAAGTTACAAAGACATACTTCCAAGTTACAAAGACA
TACTTCCAAGTATGAACAAAACAAACA      A/G             2,084   0.071   NA      NA
        NA      46.8%   94      84.4%   96      NA      0       NA      0
        46.8%   94      NA      0       NA      0       NA      0       NA
        0       84.4%   96      NA      0       NA      0       NA      0
        NA      0
rs1360554       AB_ASSAYS_ON_DEMAND     1       148.6331        152690148
        reverse MIT
GTAAATACGGATCTTTCTATAATCTGGATTATGCATACTAATGCTTTAGTTTCTCTAAAATCAATGACCTAAATT
GAGAGAATACTGATTATTAAAAGAA[A/
G]ATAATGTCAACAAAGATGTCAGAAATGTTATTAAGGTGAAATTGTAACCAGAACTCACTTTTGAAACAAAACA
GGTACTGAACTAGTGTTTATTTTTTAA      A/G             534     0.172   NA      NA
        NA      88.9%   90      33.7%   92      NA      0       NA      0
        88.9%   90      NA      0       NA      0       NA      0       NA
        0       33.7%   92      NA      0       NA      0       NA      0
        NA      0
CV1778865       AB_ASSAYS_ON_DEMAND     1       149.2201        153124615
        forward LGD
ACTCCAGCCTGGGTGACAGAGCAAAGAAACATAAAATAATAAAACATTTCTCTATTGATACAACGGAATCTGATT
TTCTAAACTCAATTCAATAGCACTT[A/
T]GTTCTACTGTTAATTGAAAAACTCTCTCTAAAGTGAGATACGTTAGGCTGAGGTCATTTTTCCTTTCTGTTGG
GTGCATGGTCAAAAAATTGACATATGA      A/T             1,606   0.323   0.054
0.180   0.258   99.5%   196     36.5%   148     64.3%   56      92.5%   80
        NA      0       100.0%  64      100.0%  40      98.9%   92
97.6%   42      NA      0       35.1%   74      37.8%   74      64.3%   56
        92.5%   80
rs7514468       AB_ASSAYS_ON_DEMAND     1       150.2873        153757530
        forward LGD
ATCTAACATGATAAGTATGATTATAGCCCATGCATAAAATCTATGGGAGCAGCAGAGGAAGCAAAGGATTCTAGC
TATGAACTAGATCTTAAGGAATAAA[C/
T]AGGCGGAACACAGGGAAAGGCAGTCCAACAGAGGGAAACATGCCACTCACTTGGGATTAAGTGGAAGGACAAA
GAAAATTTTAAAAGATCACAAAGGTAT      C/T             2,100   0.125   0.023
0.314   0.050   83.8%   198     35.9%   156     19.0%   58      62.5%   80
        NA      0       86.4%   66      92.5%   40      78.3%   92
77.5%   40      NA      0       43.6%   78      28.2%   78      19.0%   58
        62.5%   80
rs2768744       AB_ASSAYS_ON_DEMAND     1       150.5855        154088941
        forward LGD
AGGGCTGAGCTGTGGGCAGGCCCCACCTGGTGAGTTACTTGGGGACTGAGGATGGATAGGAGGAAGCACAGAGGA
GGCTAGAGGCTGAGATTCGCCCTGC[A/
G]GGAAGTGTGATGGGGCATGCGGCTGGGCTGCACTGGAGGGGTGGGTAGACGCTGGCACTGGGAGGATAGGTGG
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GCCAGCATCCTGGATGAAAGGCTGGAG A/G extended_map 0.283
0.141 0.081 0.308 87.9% 198 16.0% 156 58.6% 58
80.0% 80 NA 0 83.3% 66 90.0% 40 90.2% 92
90.0% 40 NA 0 15.4% 78 16.7% 78
58.6% 58 80.0% 80
rs425539 AB_ASSAYS_ON_DEMAND 1 153.1537 155936013
forward LGD
ACTATATTAGTCTATTTCTTTGCTTCCATTGGCTGTTTACTCCCACTGCTATTTTATTACAAATATTGCTTCATA
ATAACTTTTACTAAATAGACAAGTG[C/
G]CACCATTTTAATCTCCTCCTTTGAAATGTCTTCTTCTTGGCCCTCATTCTTACATATCCCACTCCTCTCTACT
CAAAATGAGATTTTGATTGAAATTGGG C/G 2,009 0.173 0.041
0.438 0.009 8.2% 196 60.4% 154 82.8% 58 71.3% 80
NA 0 6.1% 66 10.0% 40 8.9% 90
14.3% 42 NA 0 69.2% 78 51.3% 76 82.8% 58
71.3% 80
rs856046 AB_ASSAYS_ON_DEMAND 1 153.725 156204733
forward LGD
GCTATTGTACCAGTTTAAGATATCTTCTGCCCTGGCTCGCAATCCCTCTCTATCCTGACTCCAGCTCTAAACATC
TGTGCAAGTTTTGGGGCCCTGTGTT[A/
G]TACTGAGGTCACTGAATAGCAGTTCTGTATTTCTCAATTAGACATTTTTCTTTGTTCTCCTGTGCTATCATAC
ACAGAACCCGAAAACAGTGGCCAAATG A/G extended_map 0.438
0.015 0.705 0.073 1.0% 198 80.3% 152 91.4% 58
50.0% 80 NA 0 0.0% 66 0.0% 40 2.2% 92
2.4% 42 NA 0 81.6% 76 78.9% 76
91.4% 58 50.0% 80
rs1894043 AB_ASSAYS_ON_DEMAND 1 153.9724 156286003
forward MIT
TTCAAATTTTATTGTTCAGAGAAGAAAAGTTCCAGGGAGCGGCCATAGAACTGGGTGGACAAAAGAAACTAGAGG
TGAAAGCAATGCAGGTGAAAATGCA[C/
T]AGATGTGAGATTCTGACTTGCCCCTTAAGGCACGACTCAGGATTCATTCCACAAGGTCACCATAGACCTACTT
TGTTTTTTTTCCCTCCCAAAGACTACT C/T 827 0.459 0.008
0.698 0.097 98.6% 288 16.8% 250 8.6% 58 51.2% 80
100.0% 94 100.0% 66 97.4% 38 96.7% 90
92.9% 42 12.5% 96 16.7% 78 22.4% 76 8.6% 58
51.2% 80
rs2814778 PARRA 1 154.289 156391475 forward MIT
AGGCCTGAGGCTTGTGCAGGCAGTGGGCGTGGGGTAAGGCTTCCTGATGCCCCCTGTCCCTGCCCAGAACCTGAT
GGCCCTCATTAGTCCTTGGCTCTTA[C/
T]CTTGGAAGCACAGGCGCTGACAGCCGTCCCAGCCCTTCTGTCTGCGGGCCTGAACCAAACGGTGCCATGGGGA
ACTGTCTGCACAGGGTGAGTATGGGGC C/T 1 0.709 0.009
0.872 0.001 0.0% 338 99.7% 306 98.1% 54 100.0% 80
0.0% 146 0.0% 64 0.0% 36 0.0% 92
9.5% 42 100.0% 152 98.7% 76 100.0% 78 98.1% 54
100.0% 80
CV11798431 AB_ASSAYS_ON_DEMAND LGD

GTGTTTTGTGACAGGAAGATTCCCAGCGGTGTGGGCGGGATTCGGAGGCCTTTCTGCATGTGGACAGGAAGACCG
CAGCGAAGGCAGGCAGTGTGACCGG[A/
G]CACATGAGAGCTGGGCTGTGGGGCTTTTCCCGGCAGGAGCCGCAGGGTGCAGGGTTGAGGCTGGCACTGAGCC
CACAGTCAAGAGCGCAGGAAGAACGGC A/G maps to two positions on chromosome
2_random in HG16 public assembly (physical position was chr2: 1,292,215 in
Celera R27 assembly, which interpolates to chr2: 1,861,561 in HG16 and
4.0129 cM in the deCODE genetic map) 1,907 0.059 0.000 0.105
0.031 43.4% 198 78.2% 156 81.0% 58 58.8% 80 NA
0 31.8% 66 47.5% 40 50.0% 92 30.0% 40
NA 0 78.2% 78 78.2% 78 81.0% 58
58.8% 80
CV53106 AB_ASSAYS_ON_DEMAND 1 155.674 157078945 forward LGD

AGCCTGGGTGACAGGAGTGAAACCCTATCTTTAAAAAAATAATAAAAAATAAATGCATCTGTTGATCCTTTCCCT
TACCAACAGGAAAACTGCTGCAGAG[C/
T]GAGAGTCTTCTAAATGGATTAAGAAGCCTATCTCAATCCCTCTGGAGAGTCCTCTTCAATTCACAATGAAGAT
GTTGAAGAGCAGGGACAGACATCAACA C/T extended_map 0.131
0.081 0.470 0.048 84.2% 196 35.1% 154 6.9% 58
12.5% 80 NA 0 81.8% 66 80.0% 40 87.8% 90
88.1% 42 NA 0 38.5% 78 31.6% 76
6.9% 58 12.5% 80
rs905595 TSCAF 1 158.4387 158872267 reverse MIT

GGAGACACATCCACCATGGTACATTGGCAACTGAGCTTCCATTTTTTCAAGTCCATCAAAGTCATGACAGTTCTG
GTCATTCTTGCAACTCCCATTCACA[C/
G]AATTGTAAATCAGTCCTCTCAGGCTGTAGTGTTGTTTACAGACTTCTACCAATTCCCAGATGCCTCCTGATCT
TTTTTTTTTTTCCCTCGAAGGTGGCAA C/G 2,076 0.163 NA NA
NA 19.1% 94 76.0% 96 NA 0 NA 0
19.1% 94 NA 0 NA 0 NA 0 NA
0 76.0% 96 NA 0 NA 0 NA 0
NA 0
rs1962508 AB_ASSAYS_ON_DEMAND 1 158.742 159132796
forward LGD
TTGCTTAAAACCAAGGATTCCTAAAGTCCATAAGGAATATTAGAATGCTCTCAAAAAGCAAATATTCCTTCTGTG
TTGTCTTCTTGGAAAGTCATAGTCC[A/
C]AGACATTTTCTTGGTGCCCATTTGTGATTTCATGATGGTTGGGGACAGACTGAGAAAGTCAAGCATTGATGGA
GGAGGTAGGGAAGACGACCTGGCTGTT A/C 1,596 0.331 0.166
0.082 0.123 4.0% 198 75.7% 152 27.6% 58 34.6% 78
NA 0 1.5% 66 7.5% 40 4.3% 92
14.3% 42 NA 0 80.3% 76 71.1% 76 27.6% 58
34.6% 78
rs2340727 AB_ASSAYS_ON_DEMAND 1 158.7435 159134104
forward LGD
AGCTTTCTGGAGTCCCACCCCTTCCACCCTGGGGCGAGACGTGCCTGCCCTTTATCTTAGGGCTAAGGGAAGAGA
GTTTTAAGTGAACTTCTTGGGGCAC[A/
G]TAGTCCATGTTCTTTGCAGTTTGGGGCTAACAGTGGACCAGTGATGCACTCCCATTTGGGAGACCTAACGAGA

GAAGGTGGGCTGGCTAGCTACTCTTCA A/G extended_map 0.306
0.022 0.600 0.044 89.1% 192 14.7% 156 3.4% 58
36.2% 80 NA 0 92.2% 64 80.0% 40 90.9% 88
61.9% 42 NA 0 12.8% 78 16.7% 78
3.4% 58 36.2% 80
CV11625185 AB_ASSAYS_ON_DEMAND 1 159.0366 159385806
forward LGD
ACTCGCCAAGGAGGAGGGGCCTGGTGAACCCCCTAGGCTTTCAGTTTGGACCCCCAGAAGGTTTCTCTCAGGAGT
AAGGGCAAGCTGGCAATAGACCAGC[A/
G]CCCAGCAAGGCTGACACTTACCTTCTAACTCGCTCAAATGGATCAAGGTTCCTTTTCTCTACCCCGGCTGCCT
GCCAAAAGCAAACAAGTACTCTCTGGA A/G 1,759 0.238 0.030
0.160 0.172 95.5% 198 36.5% 156 57.1% 56 84.2% 76
NA 0 97.0% 66 100.0% 40 92.4% 92
95.2% 42 NA 0 37.2% 78 35.9% 78 57.1% 56
84.2% 76
rs2806424 AB_ASSAYS_ON_DEMAND 1 160.0112 159878836
forward LGD
CACTGCTGAGCATAAAGTCAGCATATGATAAATGCATGTTGATTTAAGGATGACTCTTCAGGAGTCCTTACTGGT
GTCAACTGAAAGACTGACTATAACT[A/
G]AAAGTATTGAAAGGTAACTGAAGGCACTGAAAGACTGAGTGAATTCTTGGCCAGTTAGGTTTTTCCCACAGAA
TGGCCACATGATATAACAAATAGAACT A/G 587 0.162 0.112
0.024 0.040 84.2% 196 29.2% 154 69.0% 58 52.5% 80
NA 0 93.9% 66 80.0% 40 78.9% 90
90.5% 42 NA 0 26.9% 78 31.6% 76 69.0% 58
52.5% 80
rs1780349 AB_ASSAYS_ON_DEMAND 1 162.6423 161796682
reverse MIT
CAGACCTCCAGGAGCCAGGCTGCGATCTGTTTGGGGAACATTCACTGATGTCACAATTTTGAAGTCTAAAATTCA
AGTCTTGTCAATACCTAGAACGCTC[A/
G]GACTCCTTGGCGGCTTTCTACCTACTCCAGCCCCTCTGGCTTTGGCAGGGGCTTCGTCTATACCATCAGGCCA
TAGGATTTCTTTTTTTTTTTAATATAG A/G 917 0.153 0.002
0.241 0.001 53.0% 198 100.0% 154 100.0% 58 100.0% 80
NA 0 51.5% 66 37.5% 40 60.9% 92
59.5% 42 NA 0 100.0% 76 100.0% 78 100.0% 58
100.0% 80
rs203850 APPLERA_RESEQUENCING 1 169.68 165037078
reverse MIT
CTGACGAGCTCACTCATGCTCTGGAATGTGCTATGGATATATTTGACTTCTGCTCTCAAGTCCACAAAATCCAGT
GAGTATTGACCCTGGTCCCACCCAG[C/
T]GGTCCCTGACCCTTTTGAGGCATAAGTAGGGAGGGCATGCAGGGAACAGGAAAGAAAGAAGAATTAATTAAGA
ACTTAGTCCTGTGTCTCAAACTGTTGT C/T extended_map 0.172
0.002 0.270 0.009 51.1% 180 0.0% 156 0.0% 56
2.5% 80 NA 0 45.3% 64 42.3% 26 57.8% 90
47.2% 36 NA 0 0.0% 78 0.0% 78
0.0% 56 2.5% 80
CV703110 AB_ASSAYS_ON_DEMAND 1 169.68 165201909

forward MIT
CAGGTGCAAGGTATCGAGCAGGACCTGGTGATAGGTTGGTAAATTTTTAATTAACATGAACTGTAAAAAATGTAT
TTCACAAGGATTTGTTTGAAGTCAT[G/
T]GAAGGGAATCTCTCCATTTTTGACAGTTGCTTCCTCTAAGAGTGTCTCATTCATATAAACTTAAAGAAACTTT
ACAGTTTACTGTAAATGATTTTACGTA G/T 667 0.172 0.002
0.269 0.008 49.0% 194 100.0% 150 100.0% 56 97.5% 80
NA 0 51.5% 66 50.0% 38 46.7% 90
54.8% 42 NA 0 100.0% 74 100.0% 76 100.0% 56
97.5% 80
rs1969648 AB_ASSAYS_ON_DEMAND 1 170.076 165572992
forward LGD
CTGTCTTCCACTGTTTGCCATGTGAGGATCAAGGCTCATTTTTCCTCCACATGCACCCCTTGATCTAATCTAATT
GTATTGCACGTGTACACCCAGACAT[C/
T]CTGCTCATGACCTCCTTTCTGGCCGTCATGCTTAAGCATGATACATATTCATCGAAACTACTGACAAAAATGT
CAAACCTCAGCCCTGTGGCTCAACATT C/T 1,342 0.079 0.158
0.004 0.002 74.2% 198 34.4% 154 81.0% 58 38.8% 80
NA 0 75.8% 66 77.5% 40 71.7% 92
72.5% 40 NA 0 35.9% 78 32.9% 76 81.0% 58
38.8% 80
CV11341848 AB_ASSAYS_ON_DEMAND 1 171.4501 166504791
forward LGD
GGAGAAAATACTGTGTTTACAATAAAGTGATACAGACTTAAGTGGCTGTAACCACTAATGTACCTTTATAAAAGT
GGTAAAAGTCTTAAATACATCCACA[A/
C]GTGTTAGAAGTAGTGATCATCAGACAGTCTATCTGAAGAAGATATTAAGACAGTGTTTTCTTTGGAATGCATT
TGCCTATATTACCTCATGTAATTCAAA A/C 2,116 0.04 0.008
0.088 0.006 0.0% 198 10.9% 156 17.9% 56 5.0% 80
NA 0 0.0% 66 0.0% 40 0.0% 92
0.0% 42 NA 0 12.8% 78 9.0% 78 17.9% 56
5.0% 80
rs724507 TSCAF 1 171.7644 166721405 reverse MIT

TCCATGCTCAGAACCTCATGAGATACATTGCACGTTACTGTAGTACCTGAATCCTTCATTGCTATTGAATGGATG
TGCCTTATTTTCCACTCCCACCTGG[A/
G]GAATCCAAACATATGCTGATGCCATGCAAACTCATGCAAAGCGTTTTGAGTGGAATAGATTTTCCACAGTTGG
GATGGGGAAAGGTACAATTAAAGAAGG A/G extended_map 0.098 NA
NA NA 57.6% 92 13.5% 96 NA 0 NA
0 57.6% 92 NA 0 NA 0 NA 0
NA 0 13.5% 96 NA 0 NA 0 NA
0 NA 0
rs3917811 APPLERA_RESEQUENCING 1 171.8099 166752770
reverse LGD
TCTTGCAGGAGCCTCCCTTGTTATGAAGGGAGTGAAAAGCAGTTATTCCAGATTAGCCTTAACTCTGTTAACGCT
TCTTTTAATTGGGAGGTCTCTGAAT[T/
G]GAAACATTTTCTCACAACAGGCATAGCATCACTTCCTACTCCAGGGGTGCAATGTCCAGCCCTCACCACTCCT
GGGCAGGGAACCATGTACTGTAGGCAT T/G 1,746 0.129 0.029
0.345 0.034 39.9% 198 89.6% 154 100.0% 58 100.0% 80

```
        NA      0       39.4%   66      35.0%   40      42.4%   92
33.3%   42      NA      0       89.7%   78      89.5%   76      100.0%  58
        100.0%  80
rs7877  AB_ASSAYS_ON_DEMAND     1       174.2713        168494267
reverse MIT
TTTATATGGGAAAGAGGTATGATGGCTCAGAGTGCTGTCAAGAACAGCTTTCTTTCTAAAATGAACCTGTAACTT
TCCAACAACCTTCAAATGCACAGAA[A/
G]TCTTAGTTATCATTCTCTAGCATTAGAAGTGGAGCTGGGAGAGGCTCAGGAATACCAGTGGTAGCCCTGGGGC
CAGCCAGGGAAGCGAGAGGGTGACCTT     A/G             2,137   0.087   NA      NA
        NA      28.3%   92      70.8%   96      NA      0       NA      0
        28.3%   92      NA      0       NA      0       NA      0       NA
        0       70.8%   96      NA      0       NA      0       NA      0
        NA      0
rs2013387       TSCAF   1       175.6846        170786211       forward MIT

TGGTTGCTTTTGGAATGTGACCTCACCTTCCTCCATTAGTGGCCCCGTAACTATAAAATAGGTGTAAAATAGTTA
TGACTCATACAGTTGTGAAAATTAA[A/
G]TTAGAAAACATGAAAATGCTTGCCACACTTTTAAAGCAATGAATAAGTGATAATACTATCATGCTGTTAATTG
TTTTTATCTACTTTGTTGCTTAGTAAA     A/G             159     0.32    NA      NA
        NA      76.1%   92      0.0%    94      NA      0       NA      0
        76.1%   92      NA      0       NA      0       NA      0       NA
        0       0.0%    94      NA      0       NA      0       NA      0
        NA      0
rs724416        TSCAF   1       176.1602        171144185       reverse MIT

AGCGGTTTTAGGAATTCACTAACACACCCAAAATTTGTTTTTTGTTTTTTGCTTTTTTTCCTTTTCCTTTTCTCT
GTGATATCATGAGCCTGTAAGGACA[A/
G]ATGGCATATTTGGGCATAACTGCTTGACTCTGTAACTACTTTTTTAAAATCAAAATTGAAAAGGTATTAATTG
CTTCTGGCTTTTTAATTTTTTTTTTTA     A/G             extended_map    0.336   NA
        NA      NA      91.3%   92      13.5%   96      NA      0       NA
        0       91.3%   92      NA      0       NA      0       NA      0
        NA      0       13.5%   96      NA      0       NA      0       NA
        0       NA      0
rs6686083       APPLERA_RESEQUENCING    1       176.2236        171191915
        forward LGD
ATATTAGTTGGTAACAATAAAATACTGCAAAGAACTAGGCTTTGTACATCACTTATAATTCCTACATCATACTTT
TAGAATTACCAGCAGAATAAATACC[A/
T]AAAGTTAATTATGTACCTGGTCCAAGGAACTGGCATCCCCTAGCCCTTACTGCTGCCCAAAGATTGGAAGAGA
GTTGCTGAGGATTCTGGTGCTGGAGAA     A/T             396     0.29    0.098
0.753   0.087   6.6%    198     75.6%   156     100.0%  58      41.2%   80
        NA      0       3.0%    66      5.0%    40      9.8%    92
23.8%   42      NA      0       75.6%   78      75.6%   78      100.0%  58
        41.2%   80
rs913688        TSCAF   1       176.3438        172013594       reverse MIT

TAGATATCGACATAAATTTGTTCCATGAATTTATTAAGGCTCCACTTCAAGCATATCCAATATTCAAAAGTTAAG
```

ATGTATACAATGGAAATTATGGAGT[A/
G]TATTTAGGACTTATTTTCATATAAAAATTGATTTTTAGATTTTTTGGGGGGTATCAGAAGTATACATGGCAAC
TTCTGCATTTGGGTTTTTAACTTCTGT A/G 828 0.238 NA NA
NA 84.8% 92 17.0% 94 NA 0 NA 0
84.8% 92 NA 0 NA 0 NA 0 NA
0 17.0% 94 NA 0 NA 0 NA 0
NA 0
CV3042843 AB_ASSAYS_ON_DEMAND 1 178.47 174336617
forward LGD
ACAGTAATAATAATAATATAAATGTAAGTTTCCATTAACTAGCAGAAGTGGTTTGGGGGGCTTCATCTTTTCTTA
ATTACAACCCTGTATAGGAATTTAA[A/
G]GGTTATTCACATAATTTTCTGTCTTTAGATGAATTAGGGAAAACAAGATAATTTTGAAAAGGAGTCATAACTT
AGAAGCACTGTATAAAAAAAGAAAACA A/G 1,179 0.227 0.005
0.276 0.050 78.3% 198 11.8% 152 17.2% 58 33.8% 80
NA 0 83.3% 66 80.0% 40 73.9% 92
78.6% 42 NA 0 10.5% 76 13.2% 76 17.2% 58
33.8% 80
rs911964 TSCAF 1 179.1103 174877993 forward MIT

CTGGGAGCCACTAAAGCCCAGAACAAATCCCTTTATGTGAAGATTTCACAGCAGTCCTTCCCCTGCCTCAGAGTA
ATAGGAGCTGTCTGTTATCTCTACT[C/
T]AGAAAATTAAAGTTTTACTTGGCCAAAGCCAAAAGATAATACAATTCTATAACCTTGTAGTTTCATCTGTTTA
TTACTTACTGTTTGTAGAGAAAACAAT C/T 1,955 0.144 NA NA
NA 94.7% 94 50.0% 96 NA 0 NA 0
94.7% 94 NA 0 NA 0 NA 0 NA
0 50.0% 96 NA 0 NA 0 NA 0
NA 0
rs1571347 TSCAF 1 179.2626 175066714 forward MIT

ATTAATGATGATAAAAGAGCCTGCCAGCTGCTGCCTGACATACCAATGTGAGCTTCCAACTCCGAGGAAGATGGA
GGGTGAAGGGCAGGTCCCTCTGGCT[C/
T]CATTTCAATCTGTCTTTTATCTCACACTAGCTAAAAAGTAACACTTACTTTGGGGAAATTTAGATTCTTTCTT
CTCCTCTCTTAAAAGCACCAAACAGAC C/T 1,887 0.142 NA NA
NA 27.2% 92 81.2% 96 NA 0 NA 0
27.2% 92 NA 0 NA 0 NA 0 NA
0 81.2% 96 NA 0 NA 0 NA 0
NA 0
CV1776485 AB_ASSAYS_ON_DEMAND 1 179.3197 175191361
forward LGD
TTTATTTCAAACCTTAAGCCTATGGGTCACACTTATTTCAAGCAATTTCATTTTCTTAAGAGTCAGGCTGTTGTG
TCTTTGCCTCTCAAAAGTCAGCAGC[A/
C]GTTGAAAAGGTACTTGTTCCAATCAATAACCATTTGAAAACAGAAATAGATATTTAAGATGAGTCTGTGTGGA
ATTGCTCCTTTTAAGACATCTTTCTCA A/C 1,732 0.175 0.198
0.003 0.233 13.1% 198 69.2% 156 17.2% 58 13.8% 80
NA 0 12.1% 66 10.0% 40 15.2% 92
7.1% 42 NA 0 64.1% 78 74.4% 78 17.2% 58

13.8% 80
CV2505674 AB_ASSAYS_ON_DEMAND 1 179.5459 175648171
forward LGD
AGACTTCTGCTTTGAGGTAAAAATAAAGTGTAGAAAAAAGGAAGAGTAGTTAAACAACAATTGGATTTTATGTCC
AGTAATTTTGCGATTTCATTGCTGT[A/
G]CAGTTGATGATTTAATTAACTGGTTTTCAGTTGCTAGAAATTATCTACTTACAGAGAAAAAGTTAGAAATCTT
TTCATCTAATCATATTTGCAGTTAAAG A/G 1,395 0.217 0.006
0.259 0.007 74.7% 190 9.7% 154 15.5% 58 16.3% 80
NA 0 78.8% 66 57.9% 38 79.1% 86
83.3% 42 NA 0 9.2% 76 10.3% 78 15.5% 58
16.3% 80
rs1985761 AB_ASSAYS_ON_DEMAND 1 179.5607 175678021
reverse MIT
GACAGTGACTTACGGTTTGAGGATAGCATTTCTCCCATTCCTACACATGACACCCTCCTGGTTAACTGAGAGAAA
GTCCTTACTTTCCAGAGCATTTGAG[C/
T]CCTAATAAATCAGATTCCCTCCCTGGCTTTTACCTCCTATGCCTAGCAGGTGACTTCTGCTTTATACCCAGTC
ACCTAGCCCTAATATAAAATTAGGGGG C/T extended_map 0.159 NA
NA NA 28.3% 92 85.1% 94 NA 0 NA
0 28.3% 92 NA 0 NA 0 NA 0
NA 0 85.1% 94 NA 0 NA 0 NA
0 NA 0
rs904272 TSCAF 1 180.233 177019179 forward MIT
TAAGCTTTCACTCAGCTTTTAGGATTCAGCTCAATACAACACCTGCAGTGGAGCATCTCCCCTCAGTCAGTAGCT
GCCCCACTCTAGGTTCCGCAACTCT[A/
G]GTCTGCAATTCTGTGGCTGCGAGTCTCACACTGTATCCTAAGGTTTGCCCCGTATCTTTTCATCACTAGGCAA
TAAGCTGCTTAAGAACTGTAGGACTAT A/G 2,129 0.126 NA NA
NA 88.3% 94 41.7% 96 NA 0 NA 0
88.3% 94 NA 0 NA 0 NA 0 NA
0 41.7% 96 NA 0 NA 0 NA 0
NA 0
CV11331860 AB_ASSAYS_ON_DEMAND 1 180.5062 177342140
forward LGD
ACCAGCCTGCCTGCTTCCCAGCAAAGGGAAGAGGAGGGAAGGAGCCAGCATTTACCAAGCACTTGTTTACCAGGG
GTCCTGCTCTTTGCAGTTCACAGTC[A/
G]GGGGAAGGAGCACCCCTAGATGGCCAAGAGGCTGTTTCATGATTAACCCCTGCCAATCGGAGGTCTATGGGAA
ACAGGTATGCTCTGGCTGAAAGCCATG A/G extended_map 0.061
0.139 0.415 0.009 74.5% 196 39.6% 154 3.4% 58
28.7% 80 NA 0 74.2% 66 72.5% 40 75.6% 90
83.3% 42 NA 0 37.2% 78 42.1% 76
3.4% 58 28.7% 80
rs355608 TSCAF 1 180.51 177416694 forward MIT
TGTTCTATACAAATACAAGGAAAGACACACACTATCAACCCCACTCAGCACCTGATCTTTCTCGGGTCTCCTGTA
CCTTGCAGACCCTTCCATGTCAGCA[A/
T]AGGCAAAGGGCGGAGTGGCACTGTCTGGCTCTCCAATCTCCAGCTCCTCCTGGTCTCACTGCTGAACTCCATT
TCTATCTTAGGCTGCCACTTGCTAGTT A/T 2,130 0.126 NA NA
NA 92.4% 92 49.0% 96 NA 0 NA 0

92.4% 92 NA 0 NA 0 NA 0 NA
0 49.0% 96 NA 0 NA 0 NA 0
NA 0
rs3766979 AB_ASSAYS_ON_DEMAND 1 182.1775 178875979
forward LGD
AGTTGCAAATGTTTTGGAGAACTTTGGTTCCATTTACTGACATGAATAATAGAAGAAGAAAAAAGCTCTTATTCT
GAGAGAAAGGTTTGTTTAATTTTAG[A/
G]CTTAGAAAGTTTGAAGTTCAAGAGGCCTGGACAAGTAGATAGGATCATCCAATATCTGTGTCTTAAGAAAAGA
GGGAGGAAAGATATGATACACTATCAG A/G 1,058 0.159 0.006
0.164 0.017 14.6% 198 68.6% 156 60.3% 58 82.5% 80
NA 0 16.7% 66 10.0% 40 15.2% 92
9.5% 42 NA 0 70.5% 78 66.7% 78 60.3% 58
82.5% 80
rs1006224 AB_ASSAYS_ON_DEMAND 1 185.9548 181780983
reverse MIT
ACTCCAGGGTTTTCTGATTGATAGAACTTACTAGAAATGTTAGAGACTTTATCCCATTTCTCTAAATTTCACTTC
AGTAAACTGCTGAAATGAAAACTCA[C/
T]AAATGTGAGTGCTACATCTGCTGTCTAACAGTCATTTTCCAGAAAACATGCTTACAAAACAGAACAGAATAGC
ATGTATACTGGTCTATTTACCTATATG C/T extended_map 0.181 NA
NA NA 80.9% 94 20.8% 96 NA 0 NA
0 80.9% 94 NA 0 NA 0 NA 0
NA 0 20.8% 96 NA 0 NA 0 NA
0 NA 0
rs1339572 AB_ASSAYS_ON_DEMAND 1 185.98 181804953
forward LGD
GGGGTCATGAATCACATGAACTTAAATAGGGGGACTCTGTCAATTAATTAAGAAATATTTTTGGCCCTCCTGCTA
TATTCAAGGCAATATAATGCTAAAA[A/
C]CTCCAACCAGAGAGTTTCCACAATGAACGTCAAATCCTAAAAATGCCGTTTTTTATGAGGTCCCTGGAATATT
TTCTAGGGCAACATTTCTGGGGCAACA A/C 1,458 0.118 0.080
0.442 0.003 23.0% 196 71.4% 154 96.6% 58 77.5% 80
NA 0 22.7% 66 32.5% 40 18.9% 90
23.8% 42 NA 0 73.1% 78 69.7% 76 96.6% 58
77.5% 80
rs2024765 TSCAF 1 186.0536 181892922 forward MIT

CCTCAGGAATTCTGGTTCTTATACATGAGAGAGAAAATTTGGGAGAAAATAAAGAAGCAACAACAAGATGCAGGC
CTCAAAAACCAAGGAAAAATGATGC[C/
T]TTACTCTGAATCTACAAGGCTTTGTGTGGTCCAAGCCTACACCAGGGAGATGCTCTCCCGACTTGTTCCAGAG
GGATGAGTTGTGCAATGTTCGTTTTTG C/T extended_map 0.065 NA
NA NA 18.5% 92 53.2% 94 NA 0 NA
0 18.5% 92 NA 0 NA 0 NA 0
NA 0 53.2% 94 NA 0 NA 0 NA
0 NA 0
rs234683 AB_ASSAYS_ON_DEMAND 1 186.1582 182130137
forward LGD
TACAAAGGGCTGTGCTTTTAAGACATATTTCATTTTTGAGTGGATAAGAAAGAAATTTTCTCCAAAGAAACAGTA

CAAAGTAATAGGCTGCTTAGAAAGC[A/
G]CACAATATTTGCCCAACTAAAACTAGTACATATCATTAAGTTAGTATGTAACATCAAGGCAAATGGGTGGCCA
TCAGCTGCCAAAGCACAGCATTATCAA A/G 717 0.193 0.012
0.402 0.003 70.2% 198 9.0% 156 1.7% 58 12.5% 80
NA 0 74.2% 66 72.5% 40 66.3% 92
59.5% 42 NA 0 9.0% 78 9.0% 78 1.7% 58
12.5% 80
rs1475113 AB_ASSAYS_ON_DEMAND 1 186.76 183106225
forward LGD
GCTCATCCTTCAATTTTCAATCTCAAGTATGCCTGGTCACCTTTCCAGATAAACCAGATTTGACCATCTTCTTTG
CCTTTACACCTGACATACATTTTCT[A/
G]TTATGTATTTATATGTCTTCCCCACTAGACCATAAACCCCTAAAATAGTTTAGCCACTCTTGATCCCAAAGGA
TGTTCTCTCTCCTATTGTTAGCTAGCT A/G extended_map 0.246
0.021 0.441 0.000 0.5% 196 51.9% 156 69.0% 58
50.0% 80 NA 0 0.0% 66 0.0% 40 1.1% 90
4.8% 42 NA 0 50.0% 78 53.8% 78
69.0% 58 50.0% 80
rs726777 TSCAF 1 186.76 183112204 reverse MIT
ACAGCACTCCTCTAAGTTTGGTTAGTTCAAGTCTATTCCTGAGGATGGATCCACTCAGACAGAGGCTGACAAATC
CAGTGTCATGGTTGGCAGATTTAGC[A/
T]AATCCACCAAGAAATATCACCACTTGAGACTTTTGAGAGGGTCTTCCCCTGATAATACCCATTTATATTACTC
TTTGGGTGTTGTGTACCTATTTAATTT A/T 262 0.256 0.064
0.639 0.039 8.7% 298 74.6% 248 96.6% 58 92.5% 80
10.0% 110 7.8% 64 5.0% 40 9.5% 84
4.8% 42 78.2% 110 62.9% 70 80.9% 68 96.6% 58
92.5% 80
rs761904 TSCAF 1 186.7877 183278332 reverse MIT

TATCTTATTGGTCATTAAGGGTACCAAGTCAAAGAACAAAAGATAATCAGAAAGATACTCTTCCTTTACAAACAC
AAAAGCAAAATTCTGAAATATGAGT[C/
T]CCATTAATGGCAGTGTTAGCTTTGCTTTTTATTTATAGGTCAATGTACATTGGAATAGCTCAAAGTCACTAAT
GACCTCATCTTGGGCTGTTGATTAGAA C/T extended_map 0.15 NA
NA NA 95.7% 92 51.0% 96 NA 0 NA
0 95.7% 92 NA 0 NA 0 NA 0
NA 0 51.0% 96 NA 0 NA 0 NA
0 NA 0
rs2057388 APPLERA_RESEQUENCING 1 186.8167 183331068
forward MIT
GGATTTTGTTTCTTATCAATGTTTGCTAGAGCAGTACTGTAGTATGTAATTTGCGCACTCATGCTTCTAAGATAA
AGTTTGAACTTTATATTTTTTGTAT[A/
C]TTTTAGTTCCTCCAGTCATTAGCCCTCATCTAAAGGAATATGTTATTGCTGTGGACAAGCCCATCACGTTATC
CTGTGAAGCAGATGGCCTCCCTCCGCC A/C extended_map 0.187
0.137 0.022 0.068 90.1% 192 34.0% 150 77.8% 54
65.0% 80 NA 0 89.1% 64 89.5% 38 91.1% 90
92.9% 42 NA 0 35.1% 74 32.9% 76
77.8% 54 65.0% 80

rs689470 AB_ASSAYS_ON_DEMAND 1 187.1193 183880050 forward LGD
CTGTCAATTTTTAAATAGTACAAAAATAAACAGACATTTATTTCCAGACTTATCTTTTACATAAGTTAAATACAC
ATTTGTCTGAGGCACTGAAACATTC[A/
G]CATACACAACCCAAATTCCCAGGTTTTGTCAGCAGATCAATGTTAATAACAAATCAAGTTTTTTTTTTAAAAA
AAACAGTGAACAGTGTTTTATACAAGC A/G 1,701 0.111 0.000
0.184 0.000 61.2% 196 99.4% 156 100.0% 58 100.0% 80
NA 0 51.6% 64 75.0% 40 62.0% 92
45.0% 40 NA 0 100.0% 78 98.7% 78 100.0% 58
100.0% 80
rs1445665 TSCAF 1 189.0438 186123081 forward MIT

TGCACTCACTGCTGTCTTTAGAACTGATGAAACAGTCACCATCAGTCTTTACTGACAGGCACAGGTAGAGATTCT
GAGGTTCTGTTAGACCTTTTATATG[A/
G]ATTTATCCACTTTACTCTCATATTCTTTTAGCATGAAAATCTTGGGATTGTATCACTGTCTTCTTCCAATCCC
ACAAAGCTGCACCTGGTGCTGAAAGCC A/G 1,855 0.113 NA NA
NA 43.5% 92 2.1% 96 NA 0 NA 0
43.5% 92 NA 0 NA 0 NA 0 NA
0 2.1% 96 NA 0 NA 0 NA 0
NA 0
rs1326853 TSCAF 1 192.6196 191065831 forward MIT

AAGGTTTGGGAAAAGAAGCAGCAATGAGAATTTGAGCCAGGTGAAAAAAAAGTGCAGAAGAATATGGAAGAAGTT
AGGTAACTTATGGATGACCAAGAAT[A/
G]ATTTGACATGAGGGGTCCAAAAAGAATTAATCTTCACAATCTTCTGGTATTTGAGACAGTGCAGAAAATAGTT
CGAGTTTGGAGAAAGGAGGGAAGACTT A/G 1,082 0.148 0.030
0.366 0.003 9.2% 184 57.7% 156 77.6% 58 63.7% 80
NA 0 3.1% 64 6.7% 30 14.4% 90
10.0% 40 NA 0 57.7% 78 57.7% 78 77.6% 58
63.7% 80
rs1442421 TSCAF 1 192.981 191313711 forward MIT
CCATAAGAGGAAGAGGAGCAGAAAGACTTTGTCATGGACAGTGTAGATGGTCTGGCTTGGACACACTCTGGACTT
GGCAGAAGTTTTAGATGATTTTATT[C/
T]CTGTACTAGCTTGCTAAGGCTGCTGCAATGAAATACCACAAACTGGTAGCTTAAACCACAGAAATTTGTTCTC
TCACAATTCAAGAGGTTAGAAGTCAGA C/T 437 0.193 NA NA
NA 7.4% 94 63.5% 96 NA 0 NA 0
7.4% 94 NA 0 NA 0 NA 0 NA
0 63.5% 96 NA 0 NA 0 NA 0
NA 0
rs6003 PARRA 1 194.1633 194319280 reverse MIT
TAAATAATTTTTTTTCCCATAGAAAAATGCACTAAGCCTGACCTGAGTAATGGTTACATCTCTGATGTAAAGTTA
TTGTATAAAATTCAAGAGAACATGC[A/
G]TTATGGTTGCGCTTCAGGGTACAAAACCACTGGAGGGAAGGATGAAGAAGTGGTTCAATGTCTCTCTGATGGA
TGGTCTTCTCAACCAACCTGTAGGAAA A/G 781 0.218 0.026
0.491 0.032 75.2% 314 10.3% 300 0.0% 54 0.0% 80
75.8% 120 65.6% 64 81.6% 38 78.3% 92

```
69.0%   42      11.0%   146     7.9%    76      11.5%   78      0.0%    54
        0.0%    80
rs949571        AB_ASSAYS_ON_DEMAND     1       194.3511        194601448
        forward LGD
AAAAACATCGACCAGCCACTTTTAGGCTTCCAACAAAAGTGCAGTTAACAATAAACTTTGTTCTAAAAATGACTT
ATTTGTTTTCACGGACTAAACACCA[C/
T]AAGCTGTTGTATGCAATAATTCTTTGTAACAGCTGCTCTGCCTTGTGCAACTTCCCACAAGCACACCAAAAGT
TAATATCAATTACAATTAAGGGGGAAA      C/T             1,459   0.167   0.016
0.356   0.003   12.1%   198     66.2%   154     80.4%   56      72.5%   80
        NA      0       12.1%   66      7.5%    40      14.1%   92
9.5%    42      NA      0       69.7%   76      62.8%   78      80.4%   56
        72.5%   80
rs4915269       AB_ASSAYS_ON_DEMAND     1       194.923 195460662
forward LGD
ATATGTCACAAGCCTTTAGATGGAGTGTCACATTAGTTACAGTTAATATTGGCTTAGGGCTGCATTTCTCAAGCC
TGGTGCTTGAAACTGTCTTCCTGGA[G/
T]CATCAGTTCCACTGAAGATTTTTTTAAAGAAAAATCTTTTGTATAATGAAGAGGAACATAAAAACAACTCATC
TTTAAAAGAAAAAGTAGATTTTGAATG      G/T             extended_map    0.112
0.280   0.023   0.212   15.2%   198     59.9%   152     3.4%    58
9.0%    78      NA      0       15.2%   66      5.0%    40      19.6%   92
        19.0%   42      NA      0       56.8%   74      62.8%   78
3.4%    58      9.0%    78
rs1008984       TSCAF   1       194.98  195618830       forward MIT
TGATTTCGGGATTCTTTAAAATTAACATAGGATACTATTTCAATTACAGATGCTACCTGAAATATTAACAATGTT
GATGCAGCTCTACTAGCAATAGATA[C/
T]AAGCTTATGTAAAAAATACCCTGTAACCAGGAAGCAATATGTTGATTTTTAAAAAAAACTATATTGGAACAGA
GAAGTTAAAGCTGCAATTATGCAACAC      C/T             1,315   0.168   0.284
0.001   0.055   69.3%   280     11.9%   252     72.4%   58      35.0%   80
        66.0%   94      73.4%   64      78.1%   32      66.7%   90
65.0%   40      13.5%   96      17.9%   78      3.8%    78      72.4%   58
        35.0%   80
rs832173        AB_ASSAYS_ON_DEMAND     1       198.1167        198546441
        forward LGD
CTGTTCAGTACGTACACCCAGGAAAAGGTCAAGAGCCACACCAAAGTGCCCGGTGAGGCTGTGCTGAACTCCTTG
CCCTCCCCATCTCCTAGAAGCTGCC[A/
G]AGTTGGGGAGGCATGTCCACGGTGCTCCCAGCAGCCCAGCAGAGGGGGCAGGAGGCTGGCCAGCCCAGTCCTC
CCTCCAGGAGCTGGAACCATCCCGCAG      A/G             213     0.279   0.001
0.358   0.008   88.9%   198     17.9%   156     20.7%   58      10.0%   80
        NA      0       84.8%   66      80.0%   40      95.7%   92
88.1%   42      NA      0       17.9%   78      17.9%   78      20.7%   58
        10.0%   80
rs627348        AB_ASSAYS_ON_DEMAND     1       198.7447        198875754
        forward LGD
CCTATCTTTTCCCCCTCCCATGCATGTTGCCTACAGTGTCACATGGGCAATGCCCCTGTACCATGCTGACCTACA
GTACCACCGAAGGCAAACAGCGTAT[A/
G]AGGTGGTTGGGGAAAACTAGCTAGATCTCCAGCATGTTGGGAGAATAAGAGAAGGAAAAGAGCCCTCCCCAAG
```

AGCTGCCTATGACTGATCTTCTCTTCT A/G extended_map 0.164
0.070 0.059 0.025 25.3% 198 82.5% 154 53.4% 58
66.2% 80 NA 0 25.8% 66 20.0% 40 27.2% 92
25.0% 40 NA 0 82.1% 78 82.9% 76
53.4% 58 66.2% 80
rs3001022 AB_ASSAYS_ON_DEMAND 1 200.0334 199202020
forward LGD
TGTTGGGGTACCGGGCCCTCACAGTAAGTGCTACCACTTTTTCTGTAAATGTTTTGGTTTTATTTATCATTATCA
TAGCTGCATCTGGGGCAACCACCTT[A/
G]TGCATACAGGACAATAAATTCCTGAGCCTCCTGGCTTCCCTCCTTCCTCCCTCCTTCTCCCTCTTCTTGGCAA
AGGCTTAAACATAGGTGGTGGGGCGGG A/G extended_map 0.141
0.053 0.051 0.038 85.2% 196 34.6% 156 62.1% 58
57.7% 78 NA 0 89.1% 64 90.0% 40 80.4% 92
85.7% 42 NA 0 38.5% 78 30.8% 78
62.1% 58 57.7% 78
rs513231 AB_ASSAYS_ON_DEMAND 1 201.4 199864656
forward MIT
CTTATTTCTCAACTGAAAGTCCCATGAGGGCAGATCCTGTGTTGGCAACAGCACCCCTTGTGCCAAGCACACAGC
GGGCACTCTGGGTATTTGTTGACTG[A/
G]GCTCCTCTGAGGGAACATAGCAGCATACACCCACAGGTATTCCAGGATGCAAGAATAAACAGCACAACTCCCT
GAGGCATCCGTTTTACTGAATGGCAAT A/G 1,396 0.165 0.003
0.251 0.001 50.0% 120 0.0% 128 0.0% 42 0.0% 62
NA 0 66.7% 36 41.7% 12 43.1% 72
43.8% 32 NA 0 0.0% 66 0.0% 62 0.0% 42
0.0% 62
rs782810 TSCAF 1 202.5658 200245608 forward MIT

TCCCGCGCTCCCTCCGGCTCCTCCCCCTTCCTGTTTTCCCCTCCCTGGGGGCCGACCATGACTGAGCTTCACTAT
GGGACAGCTCCTTCCCAGGGTCACT[A/
G]TGGCCCTTCTGTCCTGTTGGTCATTCAAGGGGTGACCAGGTGGGAGGAAAACACACTCAGGATCATAACATGG
ATCAAATTCCACAGCATGGCCCTGCCT A/G 990 0.195 0.221
0.005 0.128 19.3% 326 80.7% 264 25.9% 58 39.7% 78
17.7% 130 18.2% 66 18.4% 38 22.8% 92
23.8% 42 84.5% 110 75.6% 78 80.3% 76 25.9% 58
39.7% 78
rs6427998 APPLERA_RESEQUENCING 1 203.564 200540525
forward LGD
AGGAGTAATCTAAACGACTTGGGTAACCGAGATAAGATCCTTGCTGCCATTAAACATTGACAGGCCCCAGTGTGA
TGAGAGTGCTCAGTTGCAGAGAAAC[C/
T]CCTGGACTAGTCCATGGGGAGGCAGGGAGACCACAGCAGCTGGGCCATTAAAAATGAATGGAAACCAACCCTT
CTAAGGGGCTGTGCCTCTTAAAGTGAC C/T extended_map 0.173
0.034 0.139 0.127 41.7% 192 96.7% 152 84.5% 58
65.0% 80 NA 0 45.5% 66 44.4% 36 37.8% 90
40.5% 42 NA 0 97.4% 78 95.9% 74
84.5% 58 65.0% 80
rs7530895 AB_ASSAYS_ON_DEMAND 1 203.5928 200549013

forward LGD
TGCAGCACATGACTGTCTTCTGTTGCTGCTAGTAAGAACTCTTTCCTTCCAAATCCAGCTCAGCTCAAAACTCCC
AGGCCCAACAAGCTATTTCCTGCTG[A/
G]CACCTTCACTCCAACTCCTTGGTTAATTGTGAATCGTGTTTGTGCAGTGTGGCTCTGCCCATATTTGCCTGTC
TCCTGGCAGCTTTGCGTCTGTGTCCTC A/G 1,702 0.182 0.026
0.163 0.127 62.1% 198 4.5% 154 15.5% 58 37.5% 80
NA 0 56.1% 66 70.0% 40 63.0% 92
69.0% 42 NA 0 2.6% 78 6.6% 76 15.5% 58
37.5% 80
rs1553921 AB_ASSAYS_ON_DEMAND 1 204.9632 201616076
forward LGD
TGTAGAGATAGTCTCCAGACAGGGAGCCTTTGGGCCAGGGATCTGAGCCAGGCTGTGGCCCTTGGGAGGTAGAGT
GGTTGGGCGGCCCTTCCTGTGGGGA[G/
T]AGTGAGTTGTAGTTAAGGGTAGGATCAGAGCCAGAGAGACCGCGTAACAGCTTGAGGTCGGTCCGCCTTCCTG
CTGGCTTGCTGTAAAAGTCTACCCCAG G/T 361 0.3 0.047
0.262 0.088 23.2% 198 97.4% 156 82.8% 58 73.8% 80
NA 0 27.3% 66 15.0% 40 23.9% 92
11.9% 42 NA 0 97.4% 78 97.4% 78 82.8% 58
73.8% 80
rs1380576 AB_ASSAYS_ON_DEMAND 1 205.0346 201665711
forward LGD
GCTCCAAATGAAGGGACGATTTGTGCAAAGGCCCTGTTTGAGAAACTAAAAGATCAGGGTGGCTGAGGCTCAAGA
TACGACTAAACAGTGCAAGATAAGA[C/
G]TGAAAATGTGCTGAGGGGATAGACCACGTGTTTATCTTTACAGCAATAGCAAGCTGTTGAGCAGGGCCTGACA
CTATAGGATTTTTTTACTTTTTAAAAT C/G extended_map 0.092
0.000 0.143 0.000 76.5% 196 33.8% 154 32.1% 56
35.5% 76 NA 0 68.2% 66 82.5% 40 80.0% 90
88.1% 42 NA 0 34.2% 76 33.3% 78
32.1% 56 35.5% 76
rs1407569 AB_ASSAYS_ON_DEMAND 1 205.4849 201954215
forward LGD
AGAGCAGGTAAGAAGAGGAGGGAAAGAAAAGACCTCAGCAGCACAGCACCAGACCTTCCTCCACTTGGTGGGGCC
TTCTGACCACGAATGGTGAATAGTC[C/
T]AACTAACAACTAAAAGCTCCAGCTGGGAGGACCCTGGAGCTCCCCTGAGCCTGTGGCCTTCAAACGGTACTGA
CCAAGCCCATCAGTAAGCAGTGCATTT C/T extended_map 0.126
0.404 0.043 0.276 57.7% 196 9.0% 156 81.0% 58
67.5% 80 NA 0 68.8% 64 47.5% 40 54.3% 92
77.5% 40 NA 0 14.1% 78 3.8% 78
81.0% 58 67.5% 80
rs2065160 PARRA 1 205.5092 201968410 reverse MIT

TGCTGATCAAAGAATTACACAGACATTTATAGTCTAAGACAGGCATGAGAACATCTGAAAACACATTGTAAAGAA
TGGCCTCTCGATGAGTAAATATGGG[C/
T]CAAATGAAGTAAACAGACTATGCGTAGGTATCATCAAATATAGAGAGAATGAACAGACCGAAGAAGGGAAATA
CAAAGAGGTTTGACGTCCTCACAGCCT C/T 2,044 0.092 0.465
0.107 0.367 48.7% 320 89.6% 288 12.5% 56 21.2% 80

48.4% 126 43.9% 66 42.1% 38 55.6% 90
61.9% 42 87.9% 140 86.5% 74 95.9% 74 12.5% 56
21.2% 80
rs871454 TSCAF 1 206.9402 202813381 forward MIT

ACCCATACTGTCTCCAAAAGGAAGGTGGAAGGCCAGACCTCAGTCTTAGCTGAGCTGTCATAGGTTCAACTTGAG
CATCTCATTGCTGCATTTCCACAGT[A/
G]CCCCCAAGAAGGAAAGCAGGAGACAGCACAGAGACCAAGAGGCAGTGCTATCCAGCCTAAAGGGAGGGGTTCT
GCGGCCAAAGGCTTCCAGCCCATTCCA A/G 1,423 0.192 NA NA
NA 58.5% 94 1.0% 96 NA 0 NA 0
58.5% 94 NA 0 NA 0 NA 0 NA
0 1.0% 96 NA 0 NA 0 NA 0
NA 0
CV27837750 APPLERA_RESEQUENCING LGD

AGGGCTTTGGCACCTCCTCTGACCCCAAGAAACCCTGTTAATGAATCCGGAGGGCAGCACATGCCTGGCTGCCTG
GAAAGGCCCACTGAACTCTTACTGC[A/
G]AGTGCTCTAGCTGGAGACTCTGGAGGGGTGGGAGCTGACTTGTCATGGGTGGCAGGATTCTAACTCAAAATAT
TCGTCAGTCTGTTTTCTGGGTGATTCC A/G does not map reliably to HG16
public assembly (physical position was chr1: 179,131,448 in Celera R27
assembly, which interpolates to chr1: 203,125,572 in HG16 and 207.4994 cM
in the deCODE genetic map) 152 0.314 0.003 0.541 0.000
79.3% 198 3.2% 156 0.0% 58 2.5% 80 NA 0
84.8% 66 90.0% 40 70.7% 92 83.3% 42 NA
0 5.1% 78 1.3% 78 0.0% 58 2.5% 80
rs291090 TSCAF 1 209.4197 204197736 reverse MIT

AGCTACTTCTAGCTATTAAGGATATACAAGTGTTGAAGGATGATAAGACTTTGAATTGTTATGGAAAAAGTGGAG
GCACTGATTCATTCAACAGGATTTA[C/
T]GTCAGTTGCTGGAGATACAAAGCCAAATAGATGTCACAGAAACTCTAAGGTCAACTAGTCTTGGAAGACAAGG
GGCGCTTCATCTCCTTGTGATTATTGT C/T 842 0.236 0.131
0.079 0.020 30.4% 322 96.1% 308 63.8% 58 87.5% 80
27.0% 126 24.2% 66 36.8% 38 37.0% 92
45.2% 42 96.2% 156 94.7% 76 97.4% 76 63.8% 58
87.5% 80
rs2884090 AB_ASSAYS_ON_DEMAND 1 213.2244 206963448
forward LGD
CACAAATGTTAAACATACTCGGCAAGCATACGTGTAGGGATAGTAATCCTTCTGGATCAAGGAAAATGCAAGGTA
TATTTTGAAGTGAAACTGGACATCA[C/
T]AAAAGACTCAGTTGCTTTAAATATTCAAAATGAAAATAGATCAGAAGGAATAAAAGAACCTTGTCAATAACCT
TTGAATCAGACTTCTCTTGAGAAGCTC C/T 1,221 0.167 0.138
0.018 0.063 78.1% 196 20.5% 156 63.8% 58 48.7% 80
NA 0 80.3% 66 75.0% 40 77.8% 90
90.0% 40 NA 0 17.9% 78 23.1% 78 63.8% 58
48.7% 80
rs2249419 AB_ASSAYS_ON_DEMAND 1 217.932 211105504

reverse LGD
ATTCACGTGGGTGGGTTGTGATCCACCTGTGGCGAAGCGCTGCTGTTCTGTATCCAGGTGTGCTTGTTGGGACTC
TCTTAAATGCGAGGGATCCTGCTTT[A/
T]CTAATGCCTCTGAATGGCTGATTGCAAGCCTGCATTGGGTGCTTTGACTTTTAGGGCTGCCTCCAAAGCTCCC
AAGAAATTAATCACAGGAGTCCTCTAC A/T 47 0.381 0.095
0.219 0.018 9.1% 198 91.0% 156 60.3% 58 80.0% 80
NA 0 6.1% 66 10.0% 40 10.9% 92
9.5% 42 NA 0 85.9% 78 96.2% 78 60.3% 58
80.0% 80
rs2075422 AB_ASSAYS_ON_DEMAND 1 217.9333 211106138
forward LGD
GGTGAAGGCTGTGTAGATATTACCCAAGCAGTGAGAAAACAATTGTTTCTCATACTACTTATCCTTGAAGGCATA
ACCAACATACTTCTGAATTTTCCCA[G/
T]GCATCCTTCTTCCCACTTTGCTTAATGGCACATAAGGTTCCATGTCAGAAAGAAGTGCCAGTGATCTTCTTTC
CCTTTATCTGCTGCAGGGCAGTGTCAG G/T extended_map 0.349
0.104 0.181 0.018 11.6% 198 91.0% 156 58.6% 58
80.0% 80 NA 0 10.6% 66 10.0% 40 13.0% 92
14.3% 42 NA 0 85.9% 78 96.2% 78
58.6% 58 80.0% 80
rs701897 TSCAF 1 217.9499 211114657 reverse MIT

CGGTTATCCTGTGTGACTTTTTCCTGCTCAATTTAAGCTTTTGCTCTTTAAGCTAGAACCATGTTTAGAGAGTGA
ATTCAGAAAACTGTGTAACAACCTC[A/
G]AAGATGCCAGATTTCTCTCAATGGCAAGCTTACCAACTGTTTTGATCGGAAATCAAGGGTTTTGAGAAGGGGA
GGGAGAACAAGTTTTTTGAATTGATTT A/G extended_map 0.492 NA
NA NA 95.3% 106 4.7% 148 NA 0 NA
0 95.3% 106 NA 0 NA 0 NA 0
NA 0 4.7% 148 NA 0 NA 0 NA
0 NA 0
rs1511050 AB_ASSAYS_ON_DEMAND 1 219.2344 211843159
forward LGD
TTTCGTAAATCATTCTTGGAGGCCCAATTATCATCCCTGTCCATCTTGTCCCAGGTCTTCATCATCTTCTAAACC
CCAGCTAACTATGCCACCTCCTACC[C/
T]TTTTCTGGCCTTCTTCGAGTTCTTCCATCAGTTGGAAACTTCGAGAGACTTTTACTCCTGATCCTGTGGTGAC
TGCCATCTTGCATCACTGTTGCCCCAT C/T 725 0.227 0.105
0.091 0.013 29.6% 196 94.9% 156 65.5% 58 87.5% 80
NA 0 31.2% 64 12.5% 40 35.9% 92
14.3% 42 NA 0 93.6% 78 96.2% 78 65.5% 58
87.5% 80
rs1030854 AB_ASSAYS_ON_DEMAND 1 222.3922 214180729
forward LGD
TTGTATCCCTGTTCTGAAAGCACATTTCTCTTATTTTTAAAAAAATATATGGAGTATCCACCTATTGAGAGGTGT
CATAATATAGAACTTGCATGAGACA[C/
T]TGACCGTGAAATTTAGTTTAAAATTAGTGGTCACATGAAATGAGCATGTTTAAAACCGAGATGTGATATCTTC
TAATTACAATCCTCTAACAAACACTGG C/T 1,718 0.115 0.121
0.006 0.003 35.6% 194 83.8% 154 44.6% 56 78.9% 76

NA 0 36.4% 66 28.9% 38 37.8% 90
22.5% 40 NA 0 83.3% 78 84.2% 76 44.6% 56
78.9% 76
rs645142 TSCAF 1 224.9068 216195888 forward MIT

CAGAGGCATATAACAGAACACTATGCCTTGCAGCTGAATTACAAAAAGAATTCAACATATTTGGTATTCCATGGA
GAGTTCTCTTAGTGGAGATAGTTCA[C/
G]GAAGGGTTTATTTTCTTAATTTGCTTTCTCAGTTATAAAATCTTCCCAATTTCACTGGCAGTAGAAAACATA
TCTAACAGTAGTCCTGCATTATTAGAG C/G 353 0.22 0.095
0.080 0.083 78.6% 196 13.2% 152 46.2% 52 43.6% 78
NA 0 73.4% 64 72.5% 40 84.8% 92
61.9% 42 NA 0 18.9% 74 7.7% 78 46.2% 52
43.6% 78
rs2270709 APPLERA_RESEQUENCING 1 225.3754 217237124
reverse MIT
ACTATTGATTTCTATTGAGGCCGAGTATGTATTGTTTAAATGCTAAGAACAGAATTGGGAATATGTTTATGTTAA
AATACATAGATGGAGAAAGAGTAAA[A/
G]CATTTTCTTCCTAATACAGCAATGAACTGCTAACAGTTTAGTAACACAGAAGACTTTTGTATGGTTAAAGAAT
AGAATGAATGTATAAATTTGCATACTG A/G 1,942 0.068 0.072
0.005 0.170 62.2% 180 94.1% 152 70.7% 58 52.5% 80
NA 0 60.9% 64 42.3% 26 68.9% 90
65.0% 40 NA 0 94.7% 76 93.4% 76 70.7% 58
52.5% 80
CV15966540 AB_ASSAYS_ON_DEMAND 1 227.48 219882772
forward LGD
TACATGCTGAGCTCAGTGAGCAAATCAAATCATTTGAGAAGTCTCAGAAAGATTTGGAAGTAGCTCTTACTCACA
AGGATGATAATATTAATGTAAGTGC[A/
G]TTCATGAATACAAGCTTAATTCTTGTGAATTATCAAATCTGTTGAATTAAATGGAAAGACTCTTAATGCCCTT
TTACTTCTTTTCTAGGCTTTGACTAAC A/G 930 0.18 0.141
0.020 0.010 84.3% 198 26.3% 156 70.7% 58 37.5% 80
NA 0 83.3% 66 92.5% 40 81.5% 92
97.6% 42 NA 0 26.9% 78 25.6% 78 70.7% 58
37.5% 80
rs751609 TSCAF 1 228.1587 220905378 reverse MIT

GCAGGTGTGTAAGCACTCGGCACCCATTTGGTGCCAGTGCTAGGTTCTCAGCACAGCAGGCACCACAATCATTTC
ATGCAGTTAGAAGCAAGCTGATGCC[A/
T]GCAACAGCACCCAGATGGTTTGCAGGGAGGGGTCATCTTCACCACAAAACACAAACAAAGGGGAGGGGGCCTG
GGAAGAGGATGAGGAAGTTTACTCCAT A/T 1,343 0.141 0.103
0.025 0.013 65.1% 292 12.6% 254 46.6% 58 22.5% 80
66.3% 98 67.2% 64 42.1% 38 71.7% 92
61.9% 42 14.0% 100 15.8% 76 7.7% 78 46.6% 58
22.5% 80
rs1153954 AB_ASSAYS_ON_DEMAND 1 228.1786 220931966
forward MIT_and_LGD
CACTAGAAGCCATCCAAAGCCCTCTGCATGTCATCCAATACCTCATTTTTAGTAGTATCTGGGGCCTCCACAGCA

CCCCTAGATCAAAACAGCAACCAGA[T/
A]TCGGCAGGGAGCCAGCAGGTCTTTCTCGCCCTTCCTCCAATCCTTTAAATGGAGGTTTAGCCAGTGGGAAAAG
CAGGAAAAGGATCCTTCTGCAAACCCT T/A extended_map 0.203
0.006 0.222 0.027 17.7% 198 80.1% 156 72.4% 58
62.5% 80 NA 0 19.7% 66 27.5% 40 12.0% 92
33.3% 42 NA 0 79.5% 78 80.8% 78
72.4% 58 62.5% 80
rs4653586 AB_ASSAYS_ON_DEMAND 1 228.6408 221550004
reverse LGD
TACCCTGAAGCCGTTAATACACCCCAGTCTCTATGGTAACATCACTAAATGTGGGCATAGAAACTCCACAGCTGT
TTACAAATTTGGTTACAGTGTGCTA[C/
T]GGTGCATTTGTAACACTCAGATTTGTGCCCATTCAGGGGCAATTTGGCACTCAGATTCTACTCTACTTCACCT
AACCACCCCTAGATCTGAGTTTTCAGA C/T 1,626 0.165 0.002
0.259 0.001 50.5% 198 100.0% 156 100.0% 58 100.0% 80
NA 0 56.1% 66 45.0% 40 48.9% 92
52.4% 42 NA 0 100.0% 78 100.0% 78 100.0% 58
100.0% 80
rs493950 TSCAF 1 232.0469 225581596 forward MIT

TCTTTGGGTTTTCACTTCTTTCCTGTACACCCCATGCATATAAAAATATTAAGATCAATACAACATGGATGCCTT
TCTCCTGTTCGTCTGTCTTTGGTCA[A/
G]TTTAATTCACAGTCTCCTCCCATACTAGCATGATGTGGGGAATTCAACAAATACTTGTTAAAATGTGGCATCA
GCCCAGGATGCTCATTATTAATGCTTT A/G 531 0.237 0.006
0.275 0.057 81.7% 180 14.1% 156 20.7% 58 38.8% 80
NA 0 78.1% 64 78.6% 28 85.2% 88
75.0% 36 NA 0 14.1% 78 14.1% 78 20.7% 58
38.8% 80
rs1474926 AB_ASSAYS_ON_DEMAND 1 233.1677 227242411
forward LGD
CCTGGAAGCATGCATGACTTGAGGTGGAGCATGGGGCCCTCACGTGGTTTAATGGGTGCCAAAAATCTGTGAGCA
TCTTGGTGGATGCGGAGGGGAACAC[A/
C]CATACCACTCCTTGCCACCTATCATCCGTTTGGAGTTTAAAGAAAGTCCACTTCAAATGAGAGTTTGAAGTTG
ACACAGGGAGGACAGTAGCAGGGAAAA A/C 264 0.256 0.002
0.408 0.023 88.9% 198 21.2% 156 16.1% 56 37.5% 80
NA 0 89.4% 66 95.0% 40 85.9% 92
100.0% 42 NA 0 16.7% 78 25.6% 78 16.1% 56
37.5% 80
rs4348732 AB_ASSAYS_ON_DEMAND 1 233.4694 227425032
forward LGD
ACTCCAGTCACTCACCTAGTCAGTGGTGATAAGGGCAGGTACCTGGTTGGAAGGTACCTGTGTGTCACAAAAGGC
GCACCAGTCAGTCTAAGCTTCGACT[A/
G]AGTTCCAATGCTCAGGGCAGTCTGTGTGTTTAAGTAGGTGTGGGTAGTGCCTAGACCTACACATCTCATTCCT
CCTGCCGGTCAGTTCTGTGTTGAAGCA A/G 1,322 0.129 0.258
0.010 0.148 11.1% 198 57.1% 156 3.4% 58 13.8% 80
NA 0 1.5% 66 15.0% 40 16.3% 92
15.0% 40 NA 0 52.6% 78 61.5% 78 3.4% 58

13.8% 80
rs7546784 APPLERA_RESEQUENCING 1 238.8679 230472550
forward LGD
AGACAGAACTATCTTGTTGGGAAGTTACCCTGTAGATTATCTGTCTTTGTCTATTGCCCTGAAAACTTAACACAT
ATAAAAGTTTCAAAAAAAATGATTA[C/
G]AAGTTCCTCCTTATCCTTGATAAAGCATTAAAAGCAGAAGCCAGTAAATGAGGCTGTCTCATGCTTTATGACC
AAGTGAAACTAAATTAAGTAACTTATC C/G 1,888 0.059 0.002
0.087 0.001 22.4% 196 0.0% 154 0.0% 58 0.0% 80
NA 0 15.2% 66 32.5% 40 23.3% 90
28.6% 42 NA 0 0.0% 78 0.0% 76 0.0% 58
0.0% 80
rs622815 AB_ASSAYS_ON_DEMAND 1 240.5914 231442485
forward LGD
CTTGACCAAGCAAGTTTAGTCCTGCCTTGTTGATGCATAACGACTCTGCTGAGAACTGGAGTTATGTTTGAGAAA
ACGGTGTTTTAATTTTGCTCTGTTC[C/
T]GCTCATTTTCATCTAACACTCCATCCAACCAAAACCCACACCTCTTCTGATTAGAGGACCAGAGATGCCATAC
TCCCCCATCCCCCCATAGCTGCCCAGC C/T 318 0.228 0.080
0.630 0.110 9.1% 198 71.4% 154 96.6% 58 98.8% 80
NA 0 6.1% 66 12.5% 40 9.8% 92
16.7% 42 NA 0 70.5% 78 72.4% 76 96.6% 58
98.8% 80
rs2752 PARRA 1 240.8679 231598140 reverse MIT
TGGAGCTGAAGTAGGGCCATCATCTATATTTGGGTGATTTTTTTTCTCTATCATTCCATTAAAATGGGCAGGTTA
TGTGTTCTTGAACTTTAATAAATAC[G/
T]CTTTTTACAAAACACGTGAATGTACTTTTCTTGTCAGAAGGGGAACACTGAGTCTCCGCTCTAGATCCATTAA
CTGTCATACTCCTTCCCCAGACAACAC G/T 1,761 0.054 0.019
0.020 0.005 80.1% 322 48.9% 270 65.5% 58 57.5% 80
81.8% 132 76.6% 64 84.2% 38 78.4% 88
77.5% 40 50.0% 122 55.4% 74 40.5% 74 65.5% 58
57.5% 80
rs1254207 AB_ASSAYS_ON_DEMAND 1 245.9067 233409376
forward LGD
TTTTACAGTTTATTGGCATATAGTTACTCATCATCTAGCTTTTCAATAAGGGATTAAAACAATGATGACTCACTG
TTGCAAGCAAGACTCTGATAGAAGA[C/
T]TTTGCCCATACTGATAAAAGGCAAGGCGAATCCCTCTCAAACATAAGAGTAACTGAAATGAATATTCCAGCTG
AACAGATATAGCCTACATTCAAATGAA C/T extended_map 0.131
0.094 0.016 0.095 88.4% 198 41.6% 154 77.6% 58
77.5% 80 NA 0 80.3% 66 97.5% 40 90.2% 92
81.0% 42 NA 0 43.6% 78 39.5% 76
77.6% 58 77.5% 80
rs637489 AB_ASSAYS_ON_DEMAND 1 246.673 233650678
forward LGD
CTGCTGCCATTTTTTAAACAAAGACACAGAGGTCTTGAGTCCCTAAGGACCTTCTCCTTCTCCCCTCTGTTACCC
AGACCTCCTGTACAGCCCTTGGCCT[A/
G]GCTATGATTGCTTACGCCCAGTCTGCCTGTAGTTCAGTATTTTTCAAACTTTAGACGATAACATAGATTAGAA
AGTCATAAGGAGGCCGAGGCAGGTGGA A/G 991 0.172 0.117

0.023 0.237 91.4% 198 39.1% 156 79.3% 58 92.5% 80
NA 0 90.9% 66 100.0% 40 88.0% 92
95.2% 42 NA 0 33.3% 78 44.9% 78 79.3% 58
92.5% 80
rs2799434 APPLERA_RESEQUENCING 1 246.9487 233769299
reverse MIT
CAGAGACTCCTTCCGTGATGTGGTTTCTTCCATTTGATTGTCCAGTTTCCCTGTTTTGTTTTTTGTCTTAAACAC
TCGCTTCTCAGGGCCACTGGGTACT[C/
T]TCTTGGCAAATACACTCACGTTTTTCACTAATTTAGAAGAGGAGAAACTGGATGTAATAGATGAACACATTTC
TCTGGGAAAATGTTATCCCGTTAATTG C/T extended_map 0.283
0.100 0.101 0.031 96.5% 170 32.0% 128 70.0% 40
52.9% 68 NA 0 93.8% 64 100.0% 26 97.5% 80
95.0% 40 NA 0 32.3% 62 31.8% 66
70.0% 40 52.9% 68
rs630101 AB_ASSAYS_ON_DEMAND 1 247.0555 233813565
forward LGD
ATGTGTGTAATTAGCAATGTAAAGTCAACATATGAAATCTACATTTTGGCAATATGCTAAAAAAAAATTGACTAGT
TAAATGATTGAGAAGTATGTGTTTC[A/
G]TCATATTGCATCCCAAACAAATTTATTTGCATTTTTATAAGCTTGAGCACTTGTGCTCTTGCTACCAAAAAAT
TTATAATTTTTTTTTTTTTTTTTTTT A/G 84 0.356 0.144
0.114 0.053 97.0% 198 23.7% 152 68.5% 54 50.0% 78
NA 0 100.0% 66 95.0% 40 95.7% 92
95.2% 42 NA 0 27.6% 76 19.7% 76 68.5% 54
50.0% 78
rs2275399 APPLERA_RESEQUENCING 1 247.3184 233922552
forward MIT
CATGTGTTATCAGTAGGTGAGCATCTATTTAAAGATGACTACATCAGAAGTTCGCTTTGAACTTGGCTGGGCAAG
AACATGGTATTATTGCCAAAGAAAA[C/
T]CTTTCCAAAGAACAATCTGCCTGGAGTTATTTTTCCGTTCTAAAAAAAGGAGTGAATTCTCTTTAAAAATCAC
TTATTAAAATAATGTTTATACCACCAA C/T extended_map 0.23
0.087 0.074 0.021 4.0% 198 60.9% 156 25.9% 58
43.8% 80 NA 0 6.1% 66 0.0% 40 4.3% 92
0.0% 42 NA 0 60.3% 78 61.5% 78
25.9% 58 43.8% 80
rs2485603 AB_ASSAYS_ON_DEMAND 1 248.4376 234386470
forward LGD
GCAGTGACTCACCATTGCCAGAACGAGTACGTGTTAAATTGAATTGCAGTCTGGTTGGAGGCAGCTGTGGTGTGG
CTCAGCAAATGTGGTCTTACATTTC[C/
T]TTTTAAACTATAAGACATTTGCTACATACAAAAGAATGTATGTTATGCATATGTAGATTATGTGAGATGAAAC
TCCCTGGGGTTTATTTATTTATTTATT C/T 1,643 0.122 0.012
0.283 0.008 39.8% 196 88.5% 156 96.6% 58 81.2% 80
NA 0 37.9% 66 40.0% 40 41.1% 90
14.3% 42 NA 0 88.5% 78 88.5% 78 96.6% 58
81.2% 80
rs596502 AB_ASSAYS_ON_DEMAND 1 249.4836 234820058
forward LGD

AGGAATCAGACACACTGGCTGTCTTTATGCTCCTCAAGATGTCTAAAGGGTCCTTTATTAATGTCTCCTCTGTTT
ATTAAAGTCAATTGGATGTTTGCAT[C/
T]GCTGACCTGCTTTTTTGCTCCTCGTTCCTTTAGTCAGCGTTGACTGAAGCCTTACTCTGGGTATGCACTTAGG
GGAAACACAAGTGAACCCTGCCTTTCA C/T 1,236 0.175 0.005
0.331 0.089 26.0% 196 85.1% 154 91.4% 58 52.6% 78
NA 0 13.6% 66 25.0% 40 35.6% 90
27.5% 40 NA 0 87.2% 78 82.9% 76 91.4% 58
52.6% 78
rs538353 APPLERA_RESEQUENCING 1 250.1455 235094465
reverse MIT
AAGGTCCAGGCAGCTCCGTGGTGTTGGAGGCAACCTATAGCAGCTGCTATGTCACTGAGTGGGTGAGTATGACCC
AATGGCCAGGGAGACTGTGTGAAGC[C/
G]CCTCATGCTACCATCCAGGCTGACCCCCAAGGGCCTGTCTCTCCAGGACTCCCACTACATCATGCCAGTTGGA
GTTGAAGGAGCAGGCGCGGCTGAACAC C/G 1,487 0.167 0.002
0.263 0.001 50.0% 180 100.0% 154 100.0% 58 100.0% 80
NA 0 53.2% 62 64.3% 28 43.3% 90
70.0% 40 NA 0 100.0% 76 100.0% 78 100.0% 58
100.0% 80
rs997148 AB_ASSAYS_ON_DEMAND 1 254.121 236798495
reverse MIT
AATGTTAAAACTAATAATGCTAAATTGTGTCATAACACAGAATACAGAAATAATTTCTACCTAACAAAATAATTT
AGACATTAAAAGGGAGAAAAAAGGA[C/
T]ACCTGCTTATATTTTTTACAAGACTTTCTGATGTATTACATGCTTGATGATAATTATTAATACAGCTTAAAAG
AGAGTAAAAGATGTTAATGATATGGAA C/T 374 0.221 0.008
0.430 0.020 69.5% 246 5.3% 226 0.0% 54 14.9% 74
71.7% 60 72.4% 58 62.5% 40 69.3% 88
71.4% 42 5.4% 74 5.3% 76 5.3% 76 0.0% 54
14.9% 74
rs2185284 AB_ASSAYS_ON_DEMAND 1 256.8617 237717264
forward LGD
TCATTCCATATAAGGTTTCATGTAAAATACTCACATTCATATTTCAGTTTGTTGACAGAATTTGTTATACATTTA
AGTTATTAAAGTTATGGCCCTGATA[G/
T]TAGTAGAAATTTAATATCCTCTATAATCCCAATTCCTGTTCCTGAACTCTCCATTAGACAACACTACTTTGGC
ACTTTCAAGGAGATGTAAATTAATCAT G/T 1,461 0.098 0.000
0.144 0.078 87.9% 198 48.1% 154 46.6% 58 80.0% 80
NA 0 93.9% 66 80.0% 40 87.0% 92
73.8% 42 NA 0 50.0% 76 46.2% 78 46.6% 58
80.0% 80
rs960130 TSCAF 1 257.5045 237948397 reverse MIT

CTGGAGTACCTAATACACTAAATCTTCGAGTAATCTAATGCCCATTTTGCTCTTGGCTTCTAGCTCTGAAAGAAG
AGTGGCAAACTAATTGTGAAAGCAA[C/
T]AGAGGCTTTTATGGTCTTCACAAAGCTTGGTGTATCCAAATGCAGATTAGTCTCAGGGATGCCATGTCAGTTA
AGAGTAATCTATGGTCCTTTCAAAACT C/T 1,323 0.103 0.063
0.363 0.001 8.8% 194 47.3% 150 76.8% 56 43.8% 80
NA 0 3.0% 66 7.9% 38 13.3% 90

16.7% 42 NA 0 48.6% 74 46.1% 76 76.8% 56
43.8% 80
rs195778 AB_ASSAYS_ON_DEMAND 1 257.771 238131302
forward LGD
TTAACTGGCTTGAATTAGAATGCTTTTTGTACTTGCACACAAAATACCAGAAATCTTATCCAACTTGATTTTCGA
AGAATGGAGTTTATAAAGATATAGG[C/
T]CTTTTAGTCCGTATTGGCTTGTCTTAGTTATTGAACAGAATCAAAACATTCCATTTTTCTATAAAACCAAGAT
AATTATGAAAAAGTAGTTTTTCATATC C/T 1,115 0.124 0.008
0.225 0.000 2.5% 198 37.7% 154 48.3% 58 36.2% 80
NA 0 0.0% 66 0.0% 40 5.4% 92
0.0% 42 NA 0 30.3% 76 44.9% 78 48.3% 58
36.2% 80
rs3904682 APPLERA_RESEQUENCING 1 263.088 240366153
forward LGD
GAGCTCTGTGCGGGATTCTAGGCTCCCCTGTGACAGCCGCGGCAGGAAGCAGGCGGGCGCTCCCCGGCCACAGGC
CTGTTGTTCTCGGAAGGGAGAAAGC[A/
T]GGACATTTCCCCACGTAACTCCCAGCTCTGGGCCTAGAGTGCGTGCATGGCGAAGTCCCCGGAGAACTCTACC
CTGGAGGAGATTCTGGGGCAGTATCAA A/T 1,609 0.105 0.075
0.393 0.074 91.4% 198 52.6% 154 20.7% 58 21.2% 80
NA 0 89.4% 66 100.0% 40 89.1% 92
95.2% 42 NA 0 50.0% 76 55.1% 78 20.7% 58
21.2% 80
rs3856231 AB_ASSAYS_ON_DEMAND 1 263.4135 240715630
forward LGD
TGTAAATACACTCATTGAGAAATTGAGAAAAAGAGCAGAATAATCACATCATTTAAATCAACTTGTCTATCTCAG
CTATATCTTATTGAGCCCACTTCTT[C/
T]GAATTCATATAAATTACATGCAACTATGATGAAATTCCATTGTACCAATACGACCGTAAGAAGTTAGGGCTGA
TTTTTCACAGCCAACATTTCTTTCACA C/T 819 0.2 0.030
0.132 0.014 89.9% 198 31.3% 150 51.7% 58 45.0% 80
NA 0 93.9% 66 95.0% 40 84.8% 92
88.1% 42 NA 0 27.8% 72 34.6% 78 51.7% 58
45.0% 80
rs524489 TSCAF 1 263.7181 241047126 forward MIT

TGCAGGCTTCATGACAGCTTTCTGGAGCCCACAAACATGTAGACATGTAGTCAGGAATAAAGTTACTGCCCTCAA
ATCTTATGATTTGACTTCTAAGAAA[C/
T]TACATAACAAGATAGCGTTACAATTACTTACTGTGGTTGTATGCTACTTACCAATATATTCTTTTACGTCACT
GCAGTGGAAATGTAAGTCAGCCAGGTA C/T 89 0.354 0.004
0.383 0.114 97.5% 198 25.3% 150 32.1% 56 65.0% 80
NA 0 100.0% 66 97.5% 40 95.7% 92
97.6% 42 NA 0 22.2% 72 28.2% 78 32.1% 56
65.0% 80
rs2185073 AB_ASSAYS_ON_DEMAND 1 270.6003 243160065
forward LGD
TTCAATAGACGTAGTAAATACTGAACAAAAGTAAACAGAAGTTGACTATAATATCAAAAAGCAGTACCATTTAGT
ATTAGTCTGAAAGCAACTAGTGAAC[A/

G]CATTAATATAACCAACAAACAACCTTTCACGAAATACTTAGAGATTAGGGCCATAAACTACAAGCTAGTGTTC
TTTTCACTTTGAAATGAAAGATCAGAG A/G extended_map 0.155
0.191 0.002 0.106 23.2% 198 78.8% 156 27.6% 58
41.2% 80 NA 0 21.2% 66 32.5% 40 20.7% 92
35.7% 42 NA 0 80.8% 78 76.9% 78
27.6% 58 41.2% 80
rs2153025 AB_ASSAYS_ON_DEMAND 1 270.601 243160413
forward LGD
AGATAATGTTACCCAATTATGAATTCAGAGAGACTCAATGTACAACATATTTCTTAAGACACAGCTACAAGACAG
AGAGTAGGGCATCATCCATAAAAGG[A/
T]TGGGCAAAAGATGAGGGCCTCAAAGCCAGGCCAAACTGGGTGGTTTTTCACCTAGAATAATATAAGGTAGTCT
GCCTAGAGGAACAATCTCGATCACTGT A/T extended_map 0.146
0.127 0.011 0.326 14.1% 198 65.4% 156 23.2% 56
3.8% 78 NA 0 13.6% 66 20.0% 40 12.0% 92
31.0% 42 NA 0 66.7% 78 64.1% 78
23.2% 56 3.8% 78
rs2361364 AB_ASSAYS_ON_DEMAND 1 270.6872 243206099
forward LGD
AATATCCATACAAAGACACCTTCTATCAAGCCATGATTATAGTATTTTCTTCAATATTTATTGGAAATTACATAA
AATATTTCCCCCATGAACAGCACAC[A/
G]TGCAATTCTGTGAGAACAGAGTAAATAAAACCGATATATATCAAACAGTACCTTTTCTGCAGTTGAGAGGTAA
GCAAAAGCATCCTCTGTTTAATAAACA A/G extended_map 0.141
0.112 0.018 0.113 26.5% 196 79.9% 154 41.4% 58
41.2% 80 NA 0 13.6% 66 36.8% 38 31.5% 92
26.2% 42 NA 0 80.8% 78 78.9% 76
41.4% 58 41.2% 80
rs3904857 AB_ASSAYS_ON_DEMAND 1 270.7825 243256554
forward LGD
CAAGGGTTTGGGAAAGAGACCTCTGTCCAAACAAACCTCCTTCTCCGCCAAGTGCCAACACCCATCCTTCCTTCA
GCAGTTAAAGAGGAGACAGTAAACA[C/
T]AATTGGCTTTCTCAGAATGGAGGGTATGCAGACCCGGTGCAGGGTAAGGCATAAAAGACTAACAGAAGACCGT
CCTGGGGGTGAGTTTTGAGGAAGACAG C/T 992 0.184 0.176
0.008 0.361 9.1% 198 64.1% 156 15.5% 58 1.3% 80
NA 0 7.6% 66 15.0% 40 7.6% 92
9.5% 42 NA 0 67.9% 78 60.3% 78 15.5% 58
1.3% 80
rs1691251 AB_ASSAYS_ON_DEMAND 1 272.1287 243974503
reverse LGD
TATTGTAATCAGAACCATAAAGGCAAAATGAACCAATATTCATTATATATATTACATGTAGGTGAATGGATATTT
TGCATGTTAATGAATTTTAGTAAAT[A/
G]GATTGCCAGGGAAGCCTTGTCCTGTTTTCTTTAGTATTTTAAATCATTGGCAGTTCATCTTCATTTGAAAATA
AATGCCAGGCACATAGTAAGAGCTCAG A/G 1,248 0.176 0.103
0.028 0.000 97.5% 198 52.6% 156 87.9% 58 52.5% 80
NA 0 100.0% 66 100.0% 40 94.6% 92
100.0% 42 NA 0 56.4% 78 48.7% 78 87.9% 58
52.5% 80

rs880143 AB_ASSAYS_ON_DEMAND 1 273.6731 244765524
forward LGD
CACTTGAAAAGCTGAAGACTACATTCTTCTTTTCAGTACTGAGGTGAGTAGCAGAAGTAGAGAGGTGTTGAAGAT
AACTCTTGTTGAGATAGATAGTAGG[C/
T]GCTGCTTTTGGAGGTTTTGGAAATTGAGGCCTAACCTATGGAAACAGGAAGGCTATTCATCCTCAGAGGGTAG
CAATCTGATTTTTATTAGGAATTTTGA C/T 154 0.304 0.065
0.708 0.002 6.7% 194 77.9% 154 98.3% 58 73.8% 80
NA 0 1.6% 64 5.0% 40 11.1% 90
0.0% 42 NA 0 75.6% 78 80.3% 76 98.3% 58
73.8% 80
rs2184995 AB_ASSAYS_ON_DEMAND 1 274.2364 245013029
forward LGD
GTGGTTGTTGCCTGAGCCCACTTGTGTAGTCACTACCAGTGGACCCAAACTGCGTGCTAACACTGCCAGCCTGTC
TAGCTCCTCTATCACATTCATACTC[A/
C]GAGATGAAATTATTAGATATTTCAATGACAACAGAAGAGCATGAAACCATGCATGGAGCCCTTTGAGTGTGAA
CCCTGTGCATATGCCCGTGAGGCCAGT A/C 786 0.198 0.000
0.333 0.011 37.2% 196 96.8% 156 98.3% 58 91.2% 80
NA 0 28.1% 64 32.5% 40 45.7% 92
33.3% 42 NA 0 93.6% 78 100.0% 78 98.3% 58
91.2% 80
rs4926508 APPLERA_RESEQUENCING 1 275.2743 245925751
forward LGD
GTATTCAGTTTCCTCGCCGACTCCTGTAGGATCCTCCGATAGGTGGTCCTGGCCTCCTGGAAAGGAACAAGGCAG
AGGAAAGGCACATGTTTGGGTCCCA[C/
G]CCCCTCTTGTTTCTCAGACACACCCCTCCCACCGCCACTGCCTCAATCTGGGAAAGAGACAGATGGAGATACT
TCCAAGGACCAGCCCAAGCACATAAGG C/G 1,551 0.134 0.081
0.027 0.112 81.6% 190 30.9% 152 64.8% 54 70.5% 78
NA 0 81.2% 64 73.7% 38 85.2% 88
92.5% 40 NA 0 29.5% 78 32.4% 74 64.8% 54
70.5% 78
rs1996398 TSCAF 2 1.9139 171196 reverse MIT
ACATTTTAGCTTGAACTGGATAAATGTATTTAAAAAATCCAAATAACCTTGAATTAGTAGTACTGTAGTGAGCTT
TATCTCAACACCAGTAGCTTAATAA[A/
C]TATATAGCATATTCAAAGCAGGCAGAAAAGAAAATGAAGAAATAGACATAGAGAGCTTCAGAGGACTCTATTT
AACTCTAAAGTTGCAGGTTAATCATTT A/C 364 0.212 0.101
0.058 0.000 89.1% 304 28.5% 260 66.1% 56 29.5% 78
83.6% 110 92.2% 64 95.0% 40 91.1% 90
88.1% 42 29.2% 106 30.8% 78 25.0% 76 66.1% 56
29.5% 78
rs6728613 AB_ASSAYS_ON_DEMAND 2 5.2024 2819508 reverse LGD

CGGAAAACTGCTGTGGTCATCTATAGATGGGGCTGAGGGAGGCTGGGCTCCCTAATGTAAGTTTAAGATGTTTCA
ACACTGTCCCCAAACCCTTGAATTT[C/
T]GTTAGGTTGGTACGATAGTTTTCAGCCTTTTCTTTCTAAACACAGGTGACGGGAGAAGCTGGCACCTGCTGCC
GTCATAACCAGCCGTGCCAGTCGGCTC C/T 1,584 0.094 0.001
0.116 0.039 18.2% 198 59.9% 152 56.9% 58 36.2% 80

NA 0 16.7% 66 12.5% 40 21.7% 92
2.4% 42 NA 0 60.5% 76 59.2% 76 56.9% 58
36.2% 80
rs826029 TSCAF 2 8.8829 4242101 reverse MIT
AACAAACTCATGAGAATGAGCAGAGTCAGACACAATAAAATAATTCAAAGATATATCAGATAAACCTGGACCCAA
AAGTCATGACTTTTTCTTTTCAGTT[A/
G]ACTCTGAACAATTTACAATAACTTCCTCAATTATTGTTTGTCTCATTTTAACATTTTGTAATAACACCTATGT
CTCCATATTGGTATGAAGATTAAATGA A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 843 0.167 NA NA NA
77.5% 102 19.4% 108 NA 0 NA 0
77.5% 102 NA 0 NA 0 NA 0 NA 0
19.4% 108 NA 0 NA 0 NA 0 NA
0
rs896924 TSCAF 2 10.1653 4737786 reverse MIT
TAGCTTAAACATAGACTGAGCTCTCCTGGCTGTGTAACGAGGGCAACTGACTCTAGGAATTGCTGCTTTTCTTGA
TTTCCCAGAGCTTTGTGTTTCCCCA[A/
T]CCCCGAATCTCCCCACACCCCGTCATATTCAAAACACGTCACTGCTGCAAGATCACGTGTTTTATCTGCTCTC
TATTATTATTTAGTAATTCTATTTTGT A/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP may have an
inconsistent order between UCSC HG16 and Celera R27 maps 1,646
0.088 NA NA NA 81.6% 114 40.9% 110 NA 0
NA 0 81.6% 114 NA 0 NA 0 NA
0 NA 0 40.9% 110 NA 0 NA 0
NA 0 NA 0
CV65408 AB_ASSAYS_ON_DEMAND 2 11.1141 5104502 forward LGD
AAATTGTTGTCATTTCACTGGATTTGGGGCACTGGGGAGACTGACCCACATCTTCTCCTCCACCACCCAGATTCC
TATCATGTGCTGATCTGAACGTTTA[A/
G]TTTTCAGAAAGGAGAAAGTCTCCTCCAAGTTCTTCAGGAAATTCATCCCAATATTCATCAGATGCTTTTAAGG
AACACCAGAAAAAACTCCAGGTCTGCC A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP may have an
inconsistent order between UCSC HG16 and Celera R27 maps 231
0.271 0.018 0.528 0.045 90.2% 194 21.1% 152 8.6% 58
44.6% 74 NA 0 90.6% 64 92.5% 40
88.9% 90 92.9% 42 NA 0 19.2% 78 23.0% 74
8.6% 58 44.6% 74
rs700961 AB_ASSAYS_ON_DEMAND 2 12.4621 5625533 reverse MIT

CTCAGTCATGCTGGTTTCTAACCTTATTTGCAAGTATCATCCATAAAACCCTCTGGTTTGTATTCCTGAGCACCA
CGCACCTTGTTTTCTGCCAGTTTCA[A/
G]ACAGGAATAATGGGCACATTTTGATTGGCTGCCATTCTAAGGCTTTTCTAACCTTTGGTAGCCCTATCCCGTG
CAACTTGCTCCCTGCCCCTTTCCCAGA A/G 1,275 0.146 0.003
0.222 0.002 55.4% 276 100.0% 252 100.0% 56 100.0% 76
58.0% 112 63.0% 54 46.7% 30 50.0% 80
76.5% 34 100.0% 112 100.0% 74 100.0% 66 100.0% 56
100.0% 76
rs941010 APPLERA_RESEQUENCING 2 13.8528 6163100 forward MIT

GGAAGTGGTATGAAATCTCCAGTACTTCTCGGCACACACAGATGCGTCTTTTTCTGTTTATTGTTTTCCCTCTGA
GAGTTGTAGTGTTCAGTTGGTTACA[C/
T]CAAGAGAAGTACTTGGCTGGGACTGTTAAAAAAAGTGTCACAAAGCAGCACCAAGGAGAAAACAACACTGTTT
TCTGAATGTTCGTGCTTGGAATTTCTT C/T 1,026 0.145 0.005
0.162 0.037 75.3% 182 21.3% 150 27.8% 54 42.5% 80
NA 0 82.3% 62 86.7% 30 66.7% 90
73.7% 38 NA 0 18.9% 74 23.7% 76 27.8% 54
42.5% 80
CV1284148 AB_ASSAYS_ON_DEMAND 2 16.2399 7108828 forward LGD

CTTGAATGACTAATGTCTTGGTTGTACATTATTTACATATCTGGTGGTTCCCAAAGGTTTACTTTTGTGGGAAGA
TCTGCTGATTAAGTTGTCAGCTGAT[C/
T]ACTCAGAGTTAGTTTTTTCTTTTATTACTATGTGATTTTTGGCATATATATAGAAGTTCAAGACTTGAGTTTC
ATTTTTACAATGTATCTTCTAGTCCAT C/T 661 0.195 0.020
0.427 0.132 17.2% 198 78.2% 156 91.4% 58 35.9% 78
NA 0 16.7% 66 20.0% 40 16.3% 92
31.0% 42 NA 0 75.6% 78 80.8% 78 91.4% 58
35.9% 78
rs968762 TSCAF 2 19.4703 8050255 forward MIT
TTTCAAATAATTAAAAAAATTTCAGTCTGCATTGAATGAGAATACTTCAAAATTATGGCTCATCAAATCATTCAT
TAGTCCTTGTAGATTGATTTACTGC[C/
T]TACCCTCAATGTGTCAGGTACTAGCCTATTAGGTTGGTGCAAAATAATTGCGGTTTTTGCCAAAGGTAAAACT
GCAATCACTTTTGCACCAACCTAATAG C/T 337 0.226 0.035
0.497 0.000 5.6% 302 63.6% 264 83.9% 56 62.8% 78
7.4% 108 1.6% 64 7.9% 38 5.4% 92
2.4% 42 65.5% 110 64.5% 76 60.3% 78 83.9% 56
62.8% 78
rs2709559 AB_ASSAYS_ON_DEMAND 2 23.3179 9552539 reverse MIT

AAGGAAATAAACAGTCACAATGTTCTCTTGCGAACACTGCACTTGGAGCTTCTGGAACTTCTGCTCCTCTCCACC
CTCCCACCGACTCCTTCCCATGGGC[C/
T]GTGGGAGTCACCACCATGTGAAGAGGAACACCGTGTGCCCAGCTGGCACAGGTTGGGGGCAGAGTGCAAATCA
GACACTAGAGGAGGGGCTCTCTCTCCC C/T 550 0.225 0.001
0.377 0.005 23.4% 184 89.5% 152 92.9% 56 83.8% 80
NA 0 21.9% 64 20.0% 30 25.6% 90
20.0% 40 NA 0 93.2% 74 85.9% 78 92.9% 56
83.8% 80
CV7723290 AB_ASSAYS_ON_DEMAND 2 23.3183 9564025 forward LGD

CCACACAGTAGACGCAAGTGGCACAGCTCCGCAACTGAGCTCAGAGCAGACAGTTCAGCTGGGAACTCACAGGAT
TTAGGGGAACTTCTTTGTCGAGTGC[A/
G]AGGAGTTTGGACACTGTCTTTAGTCACTGTCCCTCCCAGAACTCCCACTAGTGTTTAAACTGCATGTCTTCAG
CCTCCAGAGGCGCTGTGAGCTCTCAGG A/G extended_map 0.141
0.001 0.253 0.006 37.4% 198 89.6% 154 93.1% 58
83.8% 80 NA 0 43.9% 66 27.5% 40 37.0% 92

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        42.9%   42      NA      0       93.4%   76      85.9%   78
93.1%   58      83.8%   80
rs930310        AB_ASSAYS_ON_DEMAND     2       29.4591 11720608
reverse MIT
GGGTGTTCAGTATACCAGCACCCTGGTCATAAAAACCATCTTTAATGTCATTGTCTGAAGAAGGCCAGCAATGAG
ATAAGAAACCCCGACAAACAGACAC[A/
T]ACGAGATGTGGCCTGGATAAGCCTGTCTGCACCAGGTTTGACTATGCAGAAAGCAGGGCCTCTAGCTGAGTGC
TTGGTTTAGGGTAACATTTAGCAAACC     A/T             543     0.232   0.000
0.337   0.018   21.2%   302     87.9%   264     87.9%   58      76.2%   80
        23.2%   112     20.3%   64      30.6%   36      15.6%   90
19.0%   42      86.6%   112     88.5%   78      89.2%   74      87.9%   58
        76.2%   80
rs962646        TSCAF   2       31.6146 12408999        forward MIT_and_LGD

TAGTAGATATCCAGCCCACACTTGAGTAAATCATTGGAAAAAGGAGACAGAGTTTAAAATATAGGTGCCAGAAGT
TACCAGTGGTAAATTTTCCACGGAG[A/
G]AATGGATTCTTCTGGTCATGCGTCAGGAAGTCTGAGGTGATTCTTAGACTGTTTCTAAAGTAAATCATTCTCT
GTCAAAAACATCAGAATGAATAAATTC     A/G             180     0.31    0.002
0.477   0.001   73.7%   312     0.3%    310     0.0%    58      0.0%    80
        73.7%   114     78.8%   66      75.0%   40      69.6%   92
81.0%   42      0.0%    154     1.3%    78      0.0%    78      0.0%    58
        0.0%    80
rs1482770       TSCAF   2       33.9278 13402325        forward MIT
AGTTGGAATTCATAAATGTGTACAAAAATAGATACTTATGGATGGTTCACTATGTACTAGCTGTGGGCACTTGCT
ATGTGTCACACATATCACCTCATTT[A/
C]TCTCTCCCAAAATTCTTGTAGCAGCTTCATTTGTAAATAAAGGCTTCTAATATTTTAATAATTATAAAATATC
AATCATGATTTTTTTCTGTAGAGTTCT     A/C             extended_map    0.232
0.080   0.100   0.042   15.4%   272     81.4%   242     50.0%   38
59.7%   62      12.1%   116     12.5%   48      13.3%   30      23.1%   78
        18.8%   32      81.5%   108     79.4%   68      83.3%   66
50.0%   38      59.7%   62
rs1403967       TSCAF   2       34.4601 13750950        forward MIT
ATGTAGTAATAACCTAATACCATAACTTACTAATAACCTTCTGAGAGTGGTCCTTGGGACATTTTTGTAGAAAGG
TTATTAGTAAGTTATTTTTTCATAA[A/
G]CAACAGGCCTAGTCAGATTAACTATTTTTCATGAGTTCGGGTATTATTTTATTTACAAATATGTTGTTTCATC
TCCATATATATTAGAATGTTTTAAAGT     A/G             835     0.281   NA      NA
        NA      8.3%    108     78.6%   112     NA      0       NA      0
        8.3%    108     NA      0       NA      0       NA      0       NA
        0       78.6%   112     NA      0       NA      0       NA      0
        NA      0
rs700423        TSCAF   2       38.6094 16810184        reverse MIT
ATAGGCTCCTGCTCATGGGTGGACATGGCAAGGACTGTCCAGAGGAGAAATGGTCACCTGAGGCTGGAACACAAC
AAGGGCAGTCTTCCAGTATGACTAG[A/
G]CACTGAAGTTTTCATGACTCAGCCCATCCACCAAAGGGACTGATCTTAAGAGTTTCAGTCTTAACCTCCCTGT
GTGGTGGGACAGACACAGCAACTAATT     A/G             164     0.323   0.000
0.407   0.000   0.7%    306     63.3%   264     65.5%   58      64.9%   74
```

0.9% 112 0.0% 64 0.0% 38 1.1% 92
4.8% 42 70.0% 110 57.7% 78 59.2% 76 65.5% 58
64.9% 74
rs2001863 TSCAF 2 40.335 18375112 forward MIT
CAGTCATTGGTCCAGTCATTCAGTCACAAATATAACCTCCCATGTGGCATCAATAATACCTCTTTTCTTTCAACT
GGACTCTGGGGAGTGTCTAACTGTT[C/
T]CAAGGATGAACCATGGACAACCAATGAGTCTCCATCCTGTAGGTGGCCGCGGGCCATGTCCATAGGCAAATTG
TCTGCCTTGGAACACTTCTGTAGTTGT C/T 1,846 0.081 NA NA
NA 67.5% 114 26.4% 110 NA 0 NA 0
67.5% 114 NA 0 NA 0 NA 0 NA
0 26.4% 110 NA 0 NA 0 NA 0
NA 0
rs1387600 TSCAF 2 40.7412 18530889 reverse MIT
AAATCAAAAGCGGAATGTTATCCCTGGCTGGGGCTTTAGAGATCTAGTGTTACCCCCTTTTTTTTTTATTGCAAC
ATAATATTTGTACATACTGATGGGG[C/
T]ACCTGTGATATGGAAGGGGGGCAGGGAAGTGCTGAGTAGAGAAAGGTGCCCTCCCTCGCTAGGGCTCCACCCC
CGGGCCTGTGCCCATAGACCTAGGTTT C/T 1,194 0.195 0.084
0.062 0.129 87.1% 318 28.0% 296 62.1% 58 70.3% 74
87.0% 138 93.3% 60 86.1% 36 83.3% 84
85.0% 40 27.7% 148 37.5% 72 19.7% 76 62.1% 58
70.3% 74
CV115326 AB_ASSAYS_ON_DEMAND 2 41.0822 18741688
forward LGD
AAATGCTTACTCTAATCTATTGGAAATGACCCTACTATTTTGAGAATTTATTATGTAGAAATGGCTTATTGATAA
GCAGTATTTCCTGTTACTCCCAATT[G/
T]GGAGAGGGCAGACTTCTTATCATGGGAAGATCATGCAAGTATTTCCAAAAGGATAGATAAAATAATGTGAAAA
TTAAAAATAAAGTTGTCAGCAGTGAAT G/T 1,554 0.158 0.031
0.121 0.008 59.6% 198 5.8% 156 19.0% 58 11.3% 80
NA 0 65.2% 66 75.0% 40 48.9% 92
61.1% 36 NA 0 3.8% 78 7.7% 78 19.0% 58
11.3% 80
rs4666427 AB_ASSAYS_ON_DEMAND 2 44.0697 20756616
forward LGD
CTGCTGCCTCCTTCCAGCTCAGAACACCAAGATTTCTAGGTTGGGGCCATTTTTCCTCTGTTCCTATCAGAACAC
TTCCTCCGTCCCTGATGACACAGGC[C/
T]ATGGGGCTACAGAGACTTCTGACTCAGGTCTTCGTGTAGCCCCAGGACTCTGGAGTCCTGTCCCCGTACCCTA
CTCCACCCTATGCTGGTGATTTAGAAC C/T extended_map 0.122
0.016 0.296 0.005 67.7% 198 17.9% 156 6.9% 58
11.3% 80 NA 0 77.3% 66 55.0% 40 66.3% 92
64.3% 42 NA 0 23.1% 78 12.8% 78
6.9% 58 11.3% 80
rs921599 AB_ASSAYS_ON_DEMAND 2 44.0935 20775637
forward MIT
CTTTTGTCATCTTCCCAGGCAAGAACAGCCATCCCGTGGCACTCACTCCCTGCACACTCCAAGGCCTCGCTTCTG
CTTCATGGAAACAGGATTGAGTCTT[A/
G]CTTGAAGCTGTGCACCACCAGACCACAAAAAGCCTCAAACATAGGTGTGGCCACCAGCCCCAGAGAGCCACAA

GCACTCGGATTCTGGGAGCCCCAAGAC A/G 1,050 0.195 0.007
0.368 0.002 80.1% 306 18.7% 262 10.7% 56 14.1% 78
81.8% 110 77.3% 66 82.5% 40 78.9% 90
89.5% 38 12.7% 110 26.9% 78 18.9% 74 10.7% 56
14.1% 78
rs520354 TSCAF 2 44.6655 21234148 forward MIT
ACTCCACTTCATGGGATGAGGGAGAGGGGGAGAACACAGGTCTTGGGACTTCTTCAAAGGCCAGAGGCTTGGAGC
TGGCACAAGGAGTCCTTGTGCAGAA[A/
G]AGAACAGAAGGTGGTTTTGCTGCCCTACATCCATCCCCGGAACCTTCTCAGAGGTGAGTAGTCATTACTCTCA
AGTGATGAGATTAGAGGCAGTTTGGTG A/G 2,140 0.072 NA NA
NA 13.0% 108 47.1% 104 NA 0 NA 0
13.0% 108 NA 0 NA 0 NA 0 NA
0 47.1% 104 NA 0 NA 0 NA 0
NA 0
rs736442 APPLERA_RESEQUENCING 2 45.1035 21594805
reverse MIT
CATTTCTTCTTTTACCTCTTGTTTCCCAGACTCATGTATTCTACCTATTTGGGACACAGCATTCATTTACCACTC
TGACCTTACCTCATTACCATAGTTT[C/
T]ACCTCTTTTCCTTCTGATTGTTAAGCACTACCACCCTACTTTTATTATTCGGGGGATCTTATGATACTATTAC
TGTTAGTGAAACTAGTTCTTTATTAGG C/T 381 0.208 0.013
0.395 0.011 92.8% 180 35.3% 156 22.4% 58 47.5% 80
NA 0 96.9% 64 89.3% 28 90.9% 88
87.5% 40 NA 0 28.2% 78 42.3% 78 22.4% 58
47.5% 80
rs2006198 TSCAF 2 45.3432 21839253 forward MIT
AACTAGAAATCTAAGGAGATAATTGGCCTTACTAGATATAGGGTCTCTTGCCAGAACAGTACATCCTCAAAATGC
TAATTCAGAGCCCCAGAAGATTGGA[A/
G]TAGCATTAGATCAGAACAGACTCATCAGACCTATTTGCAGGAAAGTCAGGAGGGCTTGGAGAACAGGGATATA
AGTCGGCATCTGAAGCAGGAGAAGGAA A/G 783 0.173 0.004
0.227 0.003 60.7% 270 5.0% 242 7.7% 52 1.4% 70
58.9% 112 63.5% 52 76.7% 30 55.3% 76
57.9% 38 4.8% 104 5.7% 70 4.4% 68 7.7% 52
1.4% 70
CV2799580 AB_ASSAYS_ON_DEMAND 2 45.3477 21843893
forward LGD
GTGAAGTTTGCTGTAAGAATAAAAAAACATTCCCAGCCTCGCAGACGACGCTTGTTACTAATCACCACATTGCTG
GTCATCAGATCCAGGGGAGAGGGTA[A/
G]CTAGTGGGCAGTGTTAAGCCATTTGGCTCAAGAGTTCAAAGGATGAAAAATCACAGCTGCTTCCCTTATAAGC
CATAAGGGCCAGATCGCTACAAAATGC A/G extended_map 0.174
0.003 0.239 0.001 60.7% 196 4.5% 154 6.9% 58
2.6% 78 NA 0 64.1% 64 70.0% 40 54.3% 92
57.1% 42 NA 0 5.1% 78 3.9% 76
6.9% 58 2.6% 78
rs713587 AB_ASSAYS_ON_DEMAND 2 47.98 25132816
forward MIT
ATGGGGAAAGTGGCCCAGAGTTACCAATCCTCCAGGGGGCAGGGGGCAGAGCAGGGAGGCCTAGGGCCAGCCTGG

ACAACTAGGAGGACCAGTGCTCATA[C/
T]CTTCAGTCTGGAGGCCACGGAGGGACCAATGACATCAGTGGGAGATCGACCAGTAGGACCAGCTAGAGGCAGC
CAAGGCTGTGAGGGTAGGGGATGGCAA C/T 1,878 0.144 0.069
0.442 0.001 94.8% 310 51.9% 262 21.4% 56 55.0% 80
96.6% 116 98.5% 66 97.4% 38 88.9% 90
95.2% 42 46.4% 112 59.2% 76 52.7% 74 21.4% 56
55.0% 80
CV2130458 AB_ASSAYS_ON_DEMAND 2 49.0676 26198082
forward LGD
GCCCCAAGAGCTGGGAGCAGGTCCCCAGTTGGAGTCAGGAAACCCTAGCTCAGGCCTGGCTCAGCCACAATATGC
CGCGTGATGCTGGACCTCTGATGCC[A/
G]GGACTCATGGTGACTTCACCCCTCTGAGCCTGTGCCCTTATATGCCCAGCAAGGGGCAGCCCTGCCCAGCCAC
CCACACAATGATGGTGTCAGGAGCAAA A/G 1,833 0.121 0.307
0.029 0.352 86.2% 196 40.3% 154 98.3% 58 100.0% 80
NA 0 89.4% 66 82.5% 40 85.6% 90
71.4% 42 NA 0 37.2% 78 43.4% 76 98.3% 58
100.0% 80
rs1275988 APPLERA_RESEQUENCING 2 49.7776 26888899
reverse MIT
AAACATGGTGGCTATGGTGGTGAGGTGGGAAGGGTAGTGGAAACTCAGGCATTACTGACCCTCTCAGAGCCTTGT
TTCCTTATCTTTTCAACGAGGTGTC[A/
G]TAGCAGATGATCCCACAGGCCTTGCCCAGCTCTAAACAACTCCAGACTTGGATGGGCTGAGTGAGCAGAATGA
TTGGAATGCAAATCTCAGTGCCAAGAA A/G extended_map 0.192
0.049 0.492 0.114 92.0% 176 36.6% 142 13.0% 54
76.3% 76 NA 0 90.0% 60 92.9% 28 93.2% 88
94.7% 38 NA 0 41.4% 70 31.9% 72
13.0% 54 76.3% 76
rs828258 AB_ASSAYS_ON_DEMAND 2 49.8716 26953965
forward MIT
GCAATCAGGAGACAATTGTTCTTCTGATGGCTGAGGTCACCATACAACCAAGGCTGACTGACGTTTCACTTTCTA
AAGACTCAGAAAAGGAAGGAGAACC[C/
G]TGTCCCACCTCACCCTAGCCCTTGTCTTCACTGACTGCAGGCCGCAGCCACCAGTTGGTTTCTCTGGGCTGTG
TCCTCAAAGATACCAGGAATGCAGAAG C/G 1,229 0.217 0.000
0.354 0.000 38.8% 196 99.4% 154 100.0% 58 100.0% 80
NA 0 34.4% 64 50.0% 40 37.0% 92
38.1% 42 NA 0 98.7% 76 100.0% 78 100.0% 58
100.0% 80
rs724310 TSCAF 2 50.401 27416090 forward MIT
CCAGTGACATTATCTTCTAGACCTACTGACATGGCCTCGTCTGATTCTCTGCTTTTCAGTTGTGTTCTTACCTCT
AGGTGAGAAAACTGAGTTTCTTCCT[A/
G]CAGTGAGGTTTCCCCTATTCCTTCACCTCTGAAATTTGGAAACTAAGTTGCCCTCTGACAGTTCAAGCATTAA
AAAAAACCCAACATATGGTAATTAAGG A/G extended_map 0.096 NA
NA NA 39.4% 94 2.1% 94 NA 0 NA
0 39.4% 94 NA 0 NA 0 NA 0
NA 0 2.1% 94 NA 0 NA 0 NA
0 NA 0

rs7593448 APPLERA_RESEQUENCING 2 50.4044 27423828
forward LGD
CTCTAGGCCCTGGAACTGATAGTCTAGTTGTTACCCCCTCTTCTTGTATAATTTTTGGCCCTTGAGGTTGAGGTC
TTTTGGGCTTACAGTCCCTGGAGTA[C/
G]AAGCTGGAATCTTCTTTACTAGGTTACTTTTCTCTCCTTTCTGAGACCTCTCCTAGACAGGGTCTTCTAGGCC
AGTGACTTTATTCTCCTTCTTTGCAGT C/G 623 0.251 0.150
0.049 0.000 90.8% 196 25.0% 156 70.7% 58 24.4% 78
NA 0 86.4% 66 95.0% 40 92.2% 90
95.2% 42 NA 0 30.8% 78 19.2% 78 70.7% 58
24.4% 78
rs898034 AB_ASSAYS_ON_DEMAND 2 50.6887 28065355
forward MIT
AACTGGAAAGTGGGAAAATCAGAATGCTGAAAAACAGAGCAGAAAGGGTTTGGTGGAACAAAGTCATTTGTCAAA
AGTTCCTGATGAACTGCTTTTAAAT[C/
T]CACTGAAGACAAGAAAAGTATGCATTTGTAAAATAATAAAAATGACAGTGACAAATAACTACAAAACCAATAT
TTTATTTTCTATTTTGCCAATTAATTA C/T 1,781 0.096 0.042
0.317 0.126 61.0% 200 17.1% 170 0.0% 28 57.7% 26
64.2% 106 71.9% 32 54.5% 22 47.5% 40
81.8% 22 24.1% 108 3.6% 28 5.9% 34 0.0% 28
57.7% 26
rs4666196 AB_ASSAYS_ON_DEMAND 2 51.3799 29496492
forward LGD
GGCTCCTCTGGCTTGTAACCATTTCTTTGCCCCATTCAGATGCTCACATCTTGAACAGCTGGGATGTAACTGCTG
CCGCTAGTTACTTGTTGCTCATTCT[C/
T]TCTTTAAGTTCTTTCAACCTGGTTTCTAGATAATCTCCTCATTACTCTAGCAAAATAGAGTACCCATGTCCTT
TATAACTCTTTGAACTCTTCAGAGTCT C/T 2,014 0.073 0.019
0.214 0.021 32.8% 198 71.8% 156 86.2% 58 86.3% 80
NA 0 45.5% 66 30.0% 40 25.0% 92
14.3% 42 NA 0 70.5% 78 73.1% 78 86.2% 58
86.3% 80
rs2339475 AB_ASSAYS_ON_DEMAND 2 52.4416 29974325
reverse MIT
ATGGCCCCCTACCAATTACAGAGCTAGTTGATGGTAGATTGGGGGTCAGAACCCTTGTTTCTGGGGTTCCACCTG
GATTCTTAGGTCACAAGTAGTCCTG[A/
G]TTCACCTGGGCAAGGTGGTATCCTGAAGGAATCCTGAAATTTTCTTAGCTTCTAGGACTTGACGTGAACTAAG
ACTTGGGGTTTGGGCTTGTTTTTTCTT A/G 86 0.355 0.026
0.287 0.119 97.8% 182 26.0% 154 44.0% 50 66.7% 72
NA 0 100.0% 64 100.0% 32 95.3% 86
100.0% 40 NA 0 18.4% 76 33.3% 78 44.0% 50
66.7% 72
rs57568 AB_ASSAYS_ON_DEMAND 2 56.0103 33247832 forward MIT

TGATTCAGAGATCTGTTGTAAGGATAAGAATAAAACAGACATTCAGAAGCAGAGGAGGATTTCAGGCAGTGACTG
GTCTTCATGGAAAGAGATGAAGAGC[A/
G]CTTATTTAGTACAAGGAGCTGTGTGACTGTAACTGAACCCATTCCTTAGAGTACTGGCTGAGTGCTAGCAGGA
AAGACATCCAGAACCTTCAGAGGATTC A/G 1,469 0.153 0.000

0.258 0.000 49.3% 304 1.1% 266 0.0% 58 0.0% 80
56.6% 106 48.5% 66 37.5% 40 46.7% 92
35.7% 42 1.8% 112 0.0% 78 1.3% 76 0.0% 58
0.0% 80
rs869964 AB_ASSAYS_ON_DEMAND 2 57.2343 34036400
forward MIT
TTTTCTTTCTTTCTCTTATTTTCTTGTTTTTGCTCCCTGCTCTCCTCTTGAGTCCCACAACTTCCAGGAATATAA
ATAATCATAGCAGCATGGGTAATGT[G/
T]TTAAGCCCTGGACCACCTGTGGCACGGACAGTGACACGTGTTAGAAACATGGCAGGTTTTGCTGTCATGTGGA
TGGGGTAAGGAGTGGCAATTTCTAGGA G/T extended_map 0.069
0.061 0.301 0.012 24.3% 284 61.1% 262 87.5% 56
73.8% 80 17.7% 96 16.7% 60 44.4% 36 28.3% 92
38.1% 42 62.7% 110 56.6% 76 63.2% 76
87.5% 56 73.8% 80
CV8511483 AB_ASSAYS_ON_DEMAND 2 58.6344 35191015
forward LGD
AGATTCTGAATATATTTTTAAAATGAGACACAATGATTTCCGGATGGATTGTTCTGGTGTGTGCAGTCAAAGATG
GCTCCGAAGTTTGTGGCCTCTGCAA[A/
T]GGAAGAAGAGAATTTTTGTCTGCCTAGAAAGGAAAACCTATGGCTAGAGCAGGTTTATAAGGGAAAAATCATG
ACTTAGGGTTTAGACATGTTAAGTTTC A/T 1,357 0.114 0.006
0.106 0.116 84.3% 198 39.0% 154 48.3% 58 78.7% 80
NA 0 92.4% 66 82.5% 40 79.3% 92
76.2% 42 NA 0 32.1% 78 46.1% 76 48.3% 58
78.7% 80
rs2041809 AB_ASSAYS_ON_DEMAND 2 61.1828 36988087
reverse MIT
AGGATAGTTATTCTGCCTTAGGATCTCTGGATCTCTGTGGATATATGAAGGTTATAAGAGAGGTAAAGGGATGGA
TGGGCTGCAAGCTCTTTTCACCCTT[A/
T]CAAACATCAAAAGGAACTAGTGAAAAGCCACACAGGCTAATGGAAATTAGTGTTTCCTTTGCGGTAGACAGGA
ATGATATCATCTCAGTATAAAACTGAC A/T 191 0.288 0.002
0.430 0.003 93.8% 194 25.3% 150 20.7% 58 19.7% 76
NA 0 93.8% 64 100.0% 38 91.3% 92
92.9% 42 NA 0 33.8% 74 17.1% 76 20.7% 58
19.7% 76
rs888099 TSCAF 2 61.845 37659039 reverse MIT
TAATTTTAAATGGAAGAAGAAATTAGTTTCATTCTTTCAGTATATGAGTCATGTAGGCGAAGAAAACTGTCCCTG
GCAGTGTCTTTTCCAGTTCCACAAT[G/
T]CTCTGACAATGCACACTTCTCCAAAGAATCGCTACCCAAGGCTGAGCCCCAGAGGGTGCCACGTGTCAAGGGC
TACGTCTTAACCCATCCCCTGGTGCAG G/T 1,020 0.153 0.030
0.125 0.004 53.7% 298 3.2% 252 13.8% 58 0.0% 74
60.0% 110 50.0% 62 55.0% 40 47.7% 86
69.0% 42 1.8% 110 4.1% 74 4.4% 68 13.8% 58
0.0% 74
rs917977 TSCAF 2 64.8409 40295724 reverse MIT
GGATCCAACAACTTTACATGCTTATTCATGTGGAACCATAAGGAGCTCTTCCTAGAATCTATGCCCAGCCATTCA
GTGGCAGGTGAAACTTCATTTCAAG[A/

G]AATAATGGTGAACACACTGCAAATATACAACTAGTAAAATTTTACATTTGACCACTGGTACCTAAGCCAGATC
CTTTTTAAGTGACTGACTCCATATCTC A/G extended_map 0.09 NA
NA NA 86.0% 136 46.8% 154 NA 0 NA
0 86.0% 136 NA 0 NA 0 NA 0
NA 0 46.8% 154 NA 0 NA 0 NA
0 NA 0
rs965374 AB_ASSAYS_ON_DEMAND 2 67.0581 42967701
forward MIT
CTCTGCCTGTGCCTATCCTGGACCATTTGTGTTTGAAGGAGCCTGATGGTGTTTTTTCTTTGCTTGCAGGAGAGG
AAAGCCCTTAGGGGTGACGAGGAGG[G/
T]TGAAGGTCCCGATGTCTCTTAGGGCCAGTAGCCTTTTCAGCAAAGGCAGGTCTTTCTCTGCTCCCAGTGGAGT
GTAGGAAGGCAGTGAGCCACTGGGCTG G/T 1,108 0.135 0.161
0.000 0.078 2.6% 312 39.5% 294 1.7% 58 10.5% 76
2.4% 124 1.6% 62 2.5% 40 3.5% 86
2.4% 42 38.5% 156 45.6% 68 35.7% 70 1.7% 58
10.5% 76
CV2047622 AB_ASSAYS_ON_DEMAND 2 68.0543 43488571
forward LGD
TAAAGGCAGGTGTCATGTTGCCATCTTTCACCTTCCCTTTTTTTAGGCAAGAATATCTATTCATATTTTAAGTGA
GTTTGGTACAACAGACTTCCGTCTC[A/
G]GCGCACTTACCAAGAATAGGATGGGGGTTGGTGAGGAAAAGTGGTGTAGTACTGGTGAGGACTTCAACGACGG
CCAGCCTAGACTCTGTAGGAAGATGGT A/G 832 0.142 0.018
0.324 0.029 15.3% 196 66.2% 154 81.0% 58 84.2% 76
NA 0 12.1% 66 17.5% 40 16.7% 90
7.1% 42 NA 0 65.4% 78 67.1% 76 81.0% 58
84.2% 76
rs1372078 AB_ASSAYS_ON_DEMAND 2 69.3075 44517924
forward MIT_and_LGD
AAAAGCAAACAGATCAAGAATCACACAGTATCTGAGAAAAACCAAGGCCATAAAAGGGAGACACCATTCCTAACA
GAACACTGTAGAAAGCAGAGAAAAT[T/
A]ATAGCAAACATAAGACTTAAATATAAGTATAAATACCCCCAGTAGATTGCTGTTTAATGGAGCTCCTTGACAT
TCTTTCAAGAAGTGATTAGATCTCTCA T/A 1,542 0.118 0.045
0.043 0.109 80.8% 328 33.5% 310 58.6% 58 72.5% 80
76.9% 130 81.8% 66 80.0% 40 85.9% 92
78.6% 42 34.4% 154 35.9% 78 29.5% 78 58.6% 58
72.5% 80
rs1011798 AB_ASSAYS_ON_DEMAND 2 69.5565 44731523
reverse MIT
CACATACATTATATATGCGGCACTGCACTGGAACATTGTATTTGAAACCCATTTAATTTCTAGATCACTACTGCT
GAAAGTGTTGAAATTTCTCAAATTA[C/
G]TCACAGATTGCAATTTTCTCCATATACATGTAAATAACAACAGAAGTCCACATGAAACCTTTTAGTTACTGGA
AAAATCAGCAATTTGACACTTAGGACA C/G extended_map 0.089 NA
NA NA 13.8% 138 52.6% 156 NA 0 NA
0 13.8% 138 NA 0 NA 0 NA 0
NA 0 52.6% 156 NA 0 NA 0 NA
0 NA 0

rs735846 TSCAF 2 70.1253 45219566 forward MIT
AAACAATCCCGCAGCATCCTCAGCCCCACAGCTGGGAAAGTCTGGACATGCTCATGGCCCCATTGAGTTGGTATC
CATTATGCCTGGGGTGAGCCTGGGG[A/
G]ACTCAGAGAATTTGAATGTCTTAGTCAAGGTACTTTGAAGCACAAGTCATAGAAATCCACTGAGACAAACAGA
AGACACAAAAATAAATGTATTTTAAGG A/G extended_map 0.077 NA
NA NA 72.2% 126 100.0% 146 NA 0 NA
0 72.2% 126 NA 0 NA 0 NA 0
NA 0 100.0% 146 NA 0 NA 0 NA
0 NA 0
rs870575 AB_ASSAYS_ON_DEMAND 2 70.4263 45477794
forward MIT
ACCATAAGGCATTCAACATTCAACAAAGGTAAGGAGTCAACATTATTGTTCTAGGTTGCAGGACTGAGTGAGGTT
GAGAGAACACACAATTCTTAGGTAT[G/
A]AGAAGCAGCTCATAAAATCTTCAAGTCCAAGGTTGAGGCTACTCCATGCTGAAATTTTGTTTAAGTAAGATGG
TATGAGACAAAAGACCCTGAACTTAAG G/A 670 0.145 0.005
0.161 0.063 76.4% 296 22.7% 282 29.3% 58 51.3% 76
78.5% 130 91.4% 58 64.7% 34 66.2% 74
77.5% 40 22.4% 152 19.7% 66 26.6% 64 29.3% 58
51.3% 76
rs714265 TSCAF 2 70.6598 45678182 reverse MIT
TATGTGTGATTAGAGAAGTGGTAGGTAATAATAGTACTCGTTTTTGTTGTTACTGTATTTTTAATTCTTGAGGTT
GTATGTGTTCATTGGGCAATTCAAG[A/
G]CAGCACTAAACCTTGGCAGAGTGAATTTATGGTGATAGCAAAATGGTATGTGGGGAAGTTGTCTCCAGAAGGC
TTGGGTCACATTGTTTTCCTCCTTGTC A/G 2,097 0.042 NA NA
NA 24.6% 134 3.4% 148 NA 0 NA 0
24.6% 134 NA 0 NA 0 NA 0 NA
0 3.4% 148 NA 0 NA 0 NA 0
NA 0
rs3754569 AB_ASSAYS_ON_DEMAND 2 72.1724 46326987
forward LGD
TACTATAGTTCATCCAGTCTGTAGAGCTCAGTAATACAAACTGATAGGAAGGGAAAATAGGCGTCATCCCCGGTA
TGTGGTTGACAAGGAGGACTGTTTG[G/
T]TTGCTGATGTACTGTGCCTCTCTAGAAACTCCTTTGTACCCAGCCAATAACAGTGACTTTGGGGGGACATTTT
AGGTAACAGTGACTGGATTTAAAATAA G/T 1,196 0.179 0.082
0.521 0.137 2.5% 198 48.1% 156 81.0% 58 88.7% 80
NA 0 0.0% 66 2.5% 40 4.3% 92
0.0% 42 NA 0 46.2% 78 50.0% 78 81.0% 58
88.7% 80
rs731399 AB_ASSAYS_ON_DEMAND 2 72.4408 46432191
forward MIT
GCAGGGCAGCAGGAGGGTTCCACTGGAGCCCAGCCCTGTCTCAGCTTGACCCCTATACCTGGTGACATCCCGCAG
CCTGGGTCAAGCTGTCAGGTTAGCA[A/
C]GCAGCCCAGTTAAATGCACTGGGCTAACATCTGGACTTAGAGTTATGTAATGTTTTTACCTCATAATATTGTA
ACCTAGTAGAGGACATTTTATGGAGTC A/C 1,621 0.139 0.000
0.227 0.002 50.7% 300 97.4% 308 98.3% 58 96.3% 80
47.1% 104 53.1% 64 52.5% 40 52.2% 92

```
71.4%   42      98.0%   152     93.6%   78      100.0%  78      98.3%   58
        96.3%   80
rs6713052       APPLERA_RESEQUENCING    2       73.2227 47226168
forward LGD
GGGGCTGCTGATCTTCTCCTGGAAACCCAGCTTACCAGCTGTGTGACCCTCTGCAAGTGACTTTGCCTCCCTGAG
TTTGTTTCCTTATCTGTCATGTAAG[C/
T]CCTTTGAGCCCTCATCAGAGGGGCCAGTAAGGATGAGGTCAGGTAATGTGGGTAAAGCCGTGGTGGGTACACA
GGAAGGGCGTGTTCTCCGCCCTCACTC     C/T             878     0.182   0.009
0.162   0.117   7.1%    198     59.7%   154     48.3%   58      20.0%   80
        NA      0       4.5%    66      0.0%    40      12.0%   92
4.8%    42      NA      0       57.7%   78      61.8%   76      48.3%   58
        20.0%   80
rs4399763       AB_ASSAYS_ON_DEMAND     2       73.4971 47564568
forward LGD
ATGCAGGCAAAGGCTGCTGTAGAATAGGCGCTGCACACTTGCTCATAAGCACTTGGTAGAAGCACATAATAGGTG
CTTAATATTTACTGAAAAGTCTAGT[A/
C]CCTAGTAAGTGCCCAAAACCTGGTGAAAGGCCAGGTGCGGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAG
GCCAAGGCGGGTGGATCACCTGAGGTC     A/C             1,767   0.109   0.025
0.058   0.123   18.4%   196     63.6%   154     44.6%   56      22.4%   76
        NA      0       10.9%   64      20.0%   40      22.8%   92
15.0%   40      NA      0       62.8%   78      64.5%   76      44.6%   56
        22.4%   76
rs876936        TSCAF   2       73.6188 47714732        forward MIT
CCAGCCTTGCTTGGTTCATGGCCACTTTTCCTGATTATCTTGCAGCTATATTAGGTCATGTGACAAAGTTCTGGC
CAGTGGCAAGGGAACACAAGTGATA[G/
T]GTACAGATAGAAGTGTCTGATACTACATAGATTATGCTTGCACTCACTCTTAAGAGAGAGACATGAACTTTTA
CCAACGGAAGCCAGTATTATTTTGAAC     G/T             extended_map    0.086   NA
        NA      NA      84.1%   132     45.0%   140     NA      0       NA
        0       84.1%   132     NA      0       NA      0       NA      0
        NA      0       45.0%   140     NA      0       NA      0       NA
        0       NA      0
rs870168        AB_ASSAYS_ON_DEMAND     2       75.4483 49971752
forward MIT
AGGCCTAGTCAATTCTCTAAACTGCCTAAGCTCAGGACCCATTTAGGCAAGAAAAGGTGTTTAGCTTCGTCAGGA
GTTTGTAATACCCCCAGCACTTCCC[A/
G]TTTATGAGAGAATTGAAATCTAGGCTTCTACTATAAGATTTCCCACAGGTTCTTTTTTCCTTTATTCAAGAAG
TATTATCTGGGGGAATTGAATAAAATT     A/G             extended_map    0.128
0.145   0.002   0.154   14.1%   320     61.3%   310     17.2%   58
16.3%   80      15.7%   134     12.5%   64      7.9%    38      15.5%   84
        14.3%   42      59.1%   154     55.1%   78      71.8%   78
17.2%   58      16.3%   80
rs1402129       TSCAF   2       75.9506 50591373        reverse MIT
CACTACATTCCAGTTACTCTCCTATGGTCATAGGTATATTGGCAAAGGCAGACAAGTCAGCTAAATGAAATTAAG
TTTAAAAGTGGAAGATGGACATTGA[C/
T]AAAAAATAGCAATTTATTAACTTAAAATTATCGAAGATGCTTCAAACCAAGAAAAGATTATAGGAGAACCTAA
TGTAGTTTGGGAACTGAAAGAAATAAC     C/T             extended_map    0.142   NA
```

NA NA 6.0% 100 50.8% 118 NA 0 NA
0 6.0% 100 NA 0 NA 0 NA 0
NA 0 50.8% 118 NA 0 NA 0 NA
0 NA 0
rs1915170 TSCAF 2 75.9721 50617953 reverse MIT
TACAGAGGCCAGCAGTCACATTAGTGTTTCTCAGCTTTCTTTGCGCATTTTGTTCTCCCAACCTTTTACTTTCCT
GCCTTCCTCCTGTCTCCTTTCTTGG[C/
T]ATATTTTATTTGCTCAGTGAGGCCTTTCTTACCCTATTAACATTTACAATCACTTCCACCACTTCCAATTCTC
TCTCTTTATTGCTCTGTTTTCCCCCAT C/T extended_map 0.071
0.058 0.010 0.018 50.6% 330 86.7% 300 62.5% 48
74.4% 78 49.3% 134 56.1% 66 55.0% 40 46.7% 90
71.4% 42 86.2% 152 89.2% 74 85.1% 74
62.5% 48 74.4% 78
rs2139628 AB_ASSAYS_ON_DEMAND 2 76.0019 50654635
reverse MIT
TGAGAGGGTTTTAATACTATCTTGGATATTTAATATATGGTGATTTGAAAAGAATACAAAATTTCATTTTGATTA
TCAGCCTCTCCCATTGGCTGGCAAT[A/
C]TTGAAAATGTTTGAAAAGTTCCTGTTCTCATTATTCATGCTATTCAAGGCAAAATTTTCCCTCCAGTGTGAGG
AGAATGACCAAATCCAAGTGTACATTT A/C 296 0.245 0.089
0.083 0.179 95.7% 186 35.9% 128 71.7% 46 84.7% 72
NA 0 96.6% 58 92.5% 40 96.6% 88
97.4% 38 NA 0 35.9% 64 35.9% 64 71.7% 46
84.7% 72
rs725288 AB_ASSAYS_ON_DEMAND 2 76.1035 50780009
reverse MIT
TATGAATCTCCCATGACCTCAAAACAAATTTTTTAAAAAGTTATGGGCTTGCTGTACAAATGCAGCTTCAAAAGA
ATCCTCCTAAGTACCCCTATCAAAC[A/
G]TTGTTTTATTAACCCTTCCTATGTGGACTTTCTGGAACTGAGCCTTTCCGGAGTCCAAGACACTATGCTCTTG
CTATGAACAAATCAAAAAGAGTGATTT A/G 1,708 0.132 0.037
0.051 0.040 1.8% 334 36.3% 306 15.5% 58 15.0% 80
0.0% 138 0.0% 66 0.0% 38 6.5% 92
0.0% 42 36.2% 152 33.3% 78 39.5% 76 15.5% 58
15.0% 80
rs718550 AB_ASSAYS_ON_DEMAND 2 76.2964 51017989
forward MIT
ATCTATTATGCCCCATTGATGAACGCTTTGGGAGGGTGATGTTAAATCTTCTTCTATTTTATTTAGGAATCTCAT
TGGATATCATAGCACAGTCTACACA[C/
T]TTCAGTGTCTCCTGGGTGGCAGACCTCACAGAATGAAGCCAGGAGCCTTATGCTGAGAGAATAGGAATGTTCA
ATGGGTTCTTCCTTCATCAAGAAAAAA C/T 1,914 0.087 0.041
0.027 0.255 70.5% 332 28.4% 306 51.7% 58 86.3% 80
72.1% 136 71.2% 66 63.2% 38 70.7% 92
50.0% 42 25.7% 152 28.2% 78 34.2% 76 51.7% 58
86.3% 80
rs3287 PARRA 2 78.4487 54782191 reverse MIT
GGAGATTTTTTTTTTTTTTTGGTTAAAGTGTGAGAATATGAATACACTTGGATTATAATCCATCCTCCAACACAC
ACACAAATAAGCAGCTAATGGCAAT[A/

G]CTAGTGGTCTTCCCAATTCACAAGACCTGTGCTTCAAATTGTTTTCCTGATAATGTGGAGAAATGTGCTCTTT
ATGTATTCTCAAGAAACAGGATGTGAA A/G 1,447 0.119 0.007
0.121 0.001 68.1% 332 19.1% 298 26.8% 56 16.3% 80
69.4% 134 68.2% 66 70.0% 40 65.2% 92
77.5% 40 14.4% 146 23.1% 78 24.3% 74 26.8% 56
16.3% 80
rs1545121 AB_ASSAYS_ON_DEMAND 2 79.0919 55501642
forward MIT
TATTGCTAGTGGATGTTCTGCCACTATCAAGGCTGGCTGGTCTTGAAGCTAAATGAAAAAACCAGGAGACAGTGT
GATAAAACTTCTAGCTGATGATGCT[A/
G]ATGAGCTTTTACATTCTGATTACAGAATGCTTTGAGGAAGCAATCATGCATACTTTCACAAGATGAGCATGCC
CAGATTAGAAAGCAAATTTCCAGATAG A/G 980 0.172 0.006
0.342 0.004 63.7% 320 7.1% 308 1.7% 58 10.5% 76
59.0% 134 65.0% 60 65.0% 40 69.8% 86
63.9% 36 7.1% 156 6.6% 76 7.9% 76 1.7% 58
10.5% 76
rs1437388 AB_ASSAYS_ON_DEMAND 2 79.1082 55519837
forward LGD
TATATATGTATTGTATGTTTTGGGTTGAATTTATTTTAAATGAAGGTGATTAGCAACCATTTGTATTATATTACA
AATGAAAATGTATAGAATTTGAAGT[A/
G]CTAGTTTATCATTTCTAGAATTTGGTGATAGAAGTTGATAGAAGTGAAAAATTACTTTTAGAAATTTTTCAAG
AGTCCAAATTAAATAAGTATTTTCTTT A/G extended_map 0.245
0.000 0.404 0.000 70.4% 196 3.2% 154 1.7% 58
2.5% 80 NA 0 77.3% 66 65.8% 38 67.4% 92
61.9% 42 NA 0 3.8% 78 2.6% 76
1.7% 58 2.5% 80
rs1439269 AB_ASSAYS_ON_DEMAND 2 81.7 58279412
reverse MIT
TTTCCATGCATGAAGAAGGAAGAGCAACAGAATTCTACATGGTATTGTTGGCCTTATCCCACTAACAACAGAACT
CTACAGTAAATTGTGGCAGTACGCA[C/
T]ATTATTTTTCAATAGGAAGAAGAATCACTAGGATAAGTTCAAGAGAACTGCCAGAGAGGGTATGGAAGGATGT
GATGAAGTGAGAAGTCTCCCAGAAAAT C/T 618 0.201 0.004
0.226 0.006 87.9% 298 28.2% 294 34.5% 58 20.0% 80
96.2% 104 89.4% 66 88.9% 36 77.2% 92
81.0% 42 25.4% 138 33.3% 78 28.2% 78 34.5% 58
20.0% 80
CV2678422 AB_ASSAYS_ON_DEMAND 2 81.7 58452713
forward LGD
ACTTTGGGAAGGGGATGAGTAAACTTTATGTGAGGGAAGAAGAAGGCTATTCAGCTATCAGAAGGGTAAACTACA
GTAGAGTCTGTTAAGTGCTAATCAA[A/
G]CTCATTTCCTTTTCCTCTTGGGCCCATAGCTAAGCTACATTTTCCCACCTTTCTTTCAGATTGATGTACAAGT
GATTGAGTGGCAGCCAATGGAATGTGG A/G extended_map 0.177
0.000 0.239 0.005 13.3% 196 69.7% 152 69.0% 58
77.6% 76 NA 0 6.2% 64 12.5% 40 18.5% 92
7.5% 40 NA 0 68.9% 74 70.5% 78
69.0% 58 77.6% 76

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rs733628        TSCAF   2       83.4178 60677300        reverse MIT
TGCCCCCACTACACACAAACAAGATCCTCAGCTGAGGACTCAGATCAGGAGTAAGGGCACCCCTATCCTCCCCAT
GGCTTTGAAAAGAAGAAAGAGGGGA[A/
G]ATTTGGAGGGATGGTCAAGTTGATGATTGAAGAGACAAAGTAGTGTAGGAAAATCTCAATGTTTCTTGCACAG
TCATTTGTTGAAAATGTGTCAGCAAGT     A/G             extended_map    0.049
0.004   0.034   0.047   0.3%    324     13.5%   288     7.7%    52
0.0%    80      0.0%    132     0.0%    62      0.0%    40      1.1%    90
        0.0%    42      11.8%   144     18.6%   70      12.2%   74
7.7%    52      0.0%    80
rs1177286       TSCAF   2       83.98   61326424        forward MIT
ATGATTGTGCCACTGCACTCCAGCCTGTGCAGCAGAACAAGACCCTATCAAAAAAAAAAAAAAAGATTATTTTAA
ATGAGGTTATGCTGGTAAAGATTTA[C/
T]TAAACATTTAAGGGTTAAAATATTTCAGAAAAGATGATCTGATAACAATGCTGATTGTACACAATTGCATTTA
TTTGTTACTTTCCTTCTTCACAATACT     C/T             extended_map    0.057   NA
        NA      NA      7.6%    132     33.8%   136     NA      0       NA
        0       7.6%    132     NA      0       NA      0       NA      0
        NA      0       33.8%   136     NA      0       NA      0       NA
        0       NA      0
rs766448        TSCAF   2       83.98   61709980        reverse MIT
CAATAGAGCTGGAATATTAAAGATGTATGCATTAACCCTTGCATTTGGAACATTTACATGTCATAAGCTGCCTTT
CAGTAAGTGGTTAGGCATTTCTACG[A/
G]GTGTGTATTATATTTTGAATAAATTTTATATGGCTTTCCAAGAAACAATTAGAGCATTTGACCCACCGACTTT
GTTGTTTATTTTTATTTTTTTGAGATG     A/G             2,021   0.052   0.004
0.044   0.048   83.9%   274     54.7%   274     62.5%   40      28.6%   56
        88.5%   130     79.5%   44      86.7%   30      77.1%   70
89.5%   38      54.7%   148     60.9%   64      48.4%   62      62.5%   40
        28.6%   56
rs756234        TSCAF   2       85.3135 64734653        reverse MIT
ACCTATTCATAATTGTCTTCAGCTTGTTTGATAGTTAGGAAGCCCAGTTTATTTTCTGCAGGAAAAAGGTAAATG
TTTCCAAAGAATCAAATAAGCATTA[C/
T]GTAAGATTATCTACTTAATTACACATATGTCAAACGGTATGTATTTAAACTTATTTGATCTTACTCCTTGCCT
TCATTTTTACACAAAGTGGGCTACAAA     C/T             370     0.212   0.000
0.272   0.001   91.9%   332     33.3%   306     34.6%   52      36.2%   80
        95.7%   138     95.3%   64      97.4%   38      81.5%   92
97.6%   42      34.4%   154     32.4%   74      32.1%   78      34.6%   52
        36.2%   80
rs2045431       APPLERA_RESEQUENCING    2       87.5404 65838061
forward MIT_and_LGD
CAGTGAAGAGATTATGCTGTAAAATTGAAATGAGTTTGGAAAGGAGTCAGTTAAAGTTTCACACAGTTATGATGT
AGAAGTTTGTTATTATCAGTGGTTA[A/
G]CGCTAATTAACACAAGAATGTGATTTCAGATGACATTGAAGGGGTATGTAAGTGCCTTTTTTGTGTCTCTTAC
TGTTTATGGAAGAACCAACTCTTGTGG     A/G             715     0.23    0.148
0.046   0.019   82.8%   198     16.4%   152     60.3%   58      30.0%   80
        NA      0       86.4%   66      72.5%   40      84.8%   92
88.1%   42      NA      0       10.5%   76      22.4%   76      60.3%   58
        30.0%   80
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rs1155924 TSCAF 2 87.979 66199813 forward MIT
TTAGCTCCTTTCTTGTTTGTGAAGCTGATTATATCTCTGCCTAGCTCCATGGGCCCATATCCCTAATGCTAGGCA
CAATGTGGTGGTAGTGTCCCTCCCC[C/
G]ACTTTCAGTTTCATTTTGTCTACAGGGCAGCCTCACACTAGTCCCTAGCTTCAACCTCTCATTTAATATGGAG
CTGGGTTCCTGGCTCTGATGCTTGCTT C/G 961 0.25 0.042
0.133 0.137 0.6% 334 51.9% 310 27.6% 58 11.3% 80
0.0% 138 0.0% 64 0.0% 40 2.2% 92
0.0% 42 50.0% 156 53.8% 78 53.9% 76 27.6% 58
11.3% 80
rs744565 TSCAF 2 90.1944 67749814 reverse MIT
GATTTTCTCTTCTTTGTCAGCAGGAGCAAAGCAAACCTCAAACCTCAAAATTGAATACCACTTTGAGCCACAAGA
AGCTGGACTTTTCTAACTCTGATTC[A/
G]AAATTTAATGTTCTGTTGATGGCAGACATCTAAATTGTTGTCTGATTCCTTTAACCAGCCACCTCACCTACCA
ACCAGAAAGCTTCATTTTCTAATGAAG A/G 2,104 0.04 0.002
0.075 0.006 96.7% 334 80.1% 306 75.9% 58 87.5% 80
96.4% 138 100.0% 64 95.0% 40 95.7% 92
100.0% 42 79.5% 156 75.0% 72 85.9% 78 75.9% 58
87.5% 80
rs2044693 TSCAF 2 91.3864 68359631 reverse MIT
GCATCCCCGCCCTCTCCTGCTGCGGACAGCTGTTCAGCCTGTCGTTTCTTCGCCCGTCGGCCACCCTTGCGGGTG
ACCTGGGTAAAGCCCTCCTCTGCCC[C/
T]GGCGCTCTGCGTTTCCATTTCGGATTCCATCCCCGGAAATCTTAAAGCGCTGCCGGCTGAAACACGTGCGCAG
CTGCACCACGCAGAAGCCAGCCTCAGC C/T 1,389 0.175 0.010
0.130 0.000 0.3% 334 37.8% 296 25.9% 54 37.2% 78
0.0% 136 0.0% 66 0.0% 40 1.1% 92
0.0% 42 42.3% 142 32.9% 76 34.6% 78 25.9% 54
37.2% 78
rs6739066 AB_ASSAYS_ON_DEMAND 2 92.0703 69239758
forward LGD
AACTTCCATGTTTTACACCAAGGATGATCCTTCTCCCCTTGTCTTCCTCACAAGTTTCTACCTGTCCTTCAAGAA
TGGGATTAAAAACCACCCCCCTTCA[C/
T]AGCCTGCACCAGCACAGAGAGCCATTCCCCTTTTCTTTTTTCCAAATGCACAGTCCTCAACTACAGCACTTTT
CATGACAGGTTACATATTAATTCTTCT C/T 255 0.276 0.025
0.298 0.112 72.7% 198 1.9% 154 10.3% 58 28.9% 76
NA 0 77.3% 66 67.5% 40 71.7% 92
61.9% 42 NA 0 3.8% 78 0.0% 76 10.3% 58
28.9% 76
rs726920 TSCAF 2 92.7726 70126561 reverse MIT
TTTATTGTCCCACCAATGCGAAGATACTTCAAAGTGTTGGTGTTGGGTATAATATCCTTACAGTGGAGTCCTGAT
AACATAGAGTAACACTAATTATTTA[C/
G]AATCTCTAAAGTGCCATAGAAAAGGTTTCCATTCAAGAAAACTAACCCAAGTATAATCAACTCTGCAATATCA
AGAAAAGGGAAAATCCCACTGTTAGAA C/G 2,062 0.111 0.005
0.211 0.005 88.2% 330 45.9% 292 37.0% 54 54.2% 72
90.4% 136 92.4% 66 90.0% 40 80.7% 88
87.5% 40 50.0% 152 44.4% 72 38.2% 68 37.0% 54
54.2% 72

rs3768641 AB_ASSAYS_ON_DEMAND 2 97.1791 72342728
forward LGD
GCTGGCCTCTTGGTGCACTGAGGTCCAGTCCTATCTCCAAAGGAAAATAGGAGAGGCCCAATCCTGGTGGGTAGA
GCTGGGCACAGGAAGCTTCTAGAAC[C/
G]ATTCTCTAGCTCCTTCTCCATGTTTTGGACAACTGTCTCACCCCCACCTTCCTAACCAGACTCCATCTGCCCT
TCTACGGCAATACTCCAGCCTCTCTAC C/G 6 0.556 0.018
0.883 0.000 99.0% 196 7.7% 156 0.0% 58 6.2% 80
NA 0 98.5% 66 100.0% 40 98.9% 90
97.6% 42 NA 0 9.0% 78 6.4% 78 0.0% 58
6.2% 80
rs653220 AB_ASSAYS_ON_DEMAND 2 97.2 72682412
forward MIT
TAGTGTGAACTGTCTCTGGAAGCACATTAGTGATGTTGGTGATAAATTCTTCCAAGTACTTACAGGATTTCTCCA
AATGTGTTGTATTGATAATAATCTG[A/
G]ACAAGCTAGAAAACAACAAACACATGTAAAAGTCATTTAACTACTCACCCCAGGATGAATGGCTCAATATGAA
TCTGCCGGTACAAAACAAATGTAAGGC A/G 614 0.398 0.025
0.696 0.068 98.5% 330 23.6% 292 8.6% 58 2.5% 80
100.0% 134 100.0% 66 100.0% 38 94.6% 92
82.5% 40 20.6% 136 21.8% 78 30.8% 78 8.6% 58
2.5% 80
rs732180 TSCAF 2 97.2 73200797 reverse MIT
CCTTCAGTATCTCCCTGGATACTGGTGATTTATATTTCTGCATTGGGAACTGAGCTGAGGGTGGCCTGATCCCTT
TGGGTCCTGAGGGGCCTCTTCCTTC[C/
T]ACCCACTTTCCAGGCTGGTGGGCAGGATGCTTCTTGCTGGCTGGGACAGCTTACAAGGGGAAGTATGGGAGCT
TTGGGCACCCAGCAGGCCTGAAATTCT C/T 1,915 0.157 0.000
0.224 0.077 23.2% 314 78.9% 304 78.6% 56 47.5% 80
26.2% 126 21.9% 64 17.5% 40 22.6% 84
16.7% 42 77.3% 154 79.7% 74 81.6% 76 78.6% 56
47.5% 80
CV27849321 APPLERA_RESEQUENCING 2 98.568 74244464
forward LGD
CTGGGCTGTTCTTAAATGCAGCAGACTGAGAGTTGGGAAGGACGCTTCTCCTTCTCTTGCCTGTTGGCCCCGTCT
CCTGCTGGCAGGTTTCCTCCAGCAT[C/
T]ACTGACAGGTGTTGAGAAAGGTATCAGTGGGATCTCTTGGTTGGGAAATGGGAATTTAGAGTTTCTTAAGATC
TTCCTATCCATACTGGCTTCACTTACC C/T extended_map 0.125
0.023 0.319 0.049 19.2% 198 68.2% 154 84.5% 58
90.0% 80 NA 0 19.7% 66 22.5% 40 17.4% 92
26.2% 42 NA 0 70.5% 78 65.8% 76
84.5% 58 90.0% 80
rs828867 AB_ASSAYS_ON_DEMAND 2 98.6536 74309000
forward MIT
GCTGCAGGCAAGAGCAGAGCAATAGGCTTCTCCCCTGAGCAGAGACCGCAGCACAGAAATGCAAGGTCTAAAGTT
GCTTTTTGCCTAAGAATCAGCGAGC[A/
G]ATTTGGCCTACTTCCTCATTGGCTTCTATTCTGATATCAGGGATGCTTTTTGTAGTGGTATTGTTTGCTCCCT
CTTCGCGTTTTGACTACCCGTCATTCA A/G extended_map 0.087 NA
NA NA 86.4% 132 48.1% 156 NA 0 NA

0 86.4% 132 NA 0 NA 0 NA 0
NA 0 48.1% 156 NA 0 NA 0 NA
0 NA 0
rs735102 TSCAF 2 98.9875 74560731 reverse MIT
ATCCCCATTCCTCAGCTGACATCCTGTCCATTTATTAAGATAGCTCTGGCAATGCCATCTCAGGAAATTTCCAAT
CCCTATGGCCTGTTAGGTGCTCCTC[C/
T]TCTTGAGGCAGCAAAAGATACCGACCTTTTTTCCAGGTGTGCTTGGATTTAGTTGCTTTGTGACTTTGGCAAG
GTTTCTAATCTCTGATCTGTTTTCTTA C/T 2,105 0.096 0.100
0.010 0.185 62.0% 276 97.9% 280 73.9% 46 59.1% 66
55.6% 124 52.1% 48 75.0% 32 73.6% 72
72.2% 36 97.2% 144 98.6% 70 98.5% 66 73.9% 46
59.1% 66
rs3755447 AB_ASSAYS_ON_DEMAND 2 99.1917 74714732
forward LGD
TGCTGGGGAGAAAGGAGGGGGCAGAGTCTTTCCCAGGGGATCCTGGAGAATCAGTTTGAAGATCAGTGCTCCCAG
GGAGATCCAGCTAGTAGACTTACAA[A/
G]GCATTTCGGTTCACACGGGAACCAGCAGGATGGAGCTGAACAGCGGGGTGGGCTCGGGACGAGGGTAGAGGGC
TGGCACAGCAGGGTAAGGTCCTTTGGC A/G 914 0.35 0.028
0.308 0.424 92.4% 198 14.7% 156 31.0% 58 88.7% 80
NA 0 97.0% 66 97.5% 40 87.0% 92
95.2% 42 NA 0 16.7% 78 12.8% 78 31.0% 58
88.7% 80
rs718967 TSCAF 2 100.4313 75875452 forward MIT

TGGGTATAGTTGGATCAATTTCATTGCTATATAGTATTTTGTTGCATGAATACTATTGATGGAACACTTAGGTGA
TTTCTGGTTTGGTGGCTATTATAAA[C/
T]AATGCTGCCATAAAAATTCTTGTACATGTCATTTAGTATGCATGGTCATACATTTCTAATGGGTATATAAATA
GAAATGGAATGGCTGGAGTACAGTTCA C/T 1,782 0.217 NA NA
NA 23.3% 120 88.7% 124 NA 0 NA 0
23.3% 120 NA 0 NA 0 NA 0 NA
0 88.7% 124 NA 0 NA 0 NA 0
NA 0
rs1992886 TSCAF 2 102.7095 79145237 forward MIT

TATAGCAAAACCAAACAAGGGCAAAGCAAAAGAAATTACAGGCTTATCACACTCATGAACAACACTGCAAAAATC
CTATGGGGAATACTGAAATCTTGAA[A/
G]ATAATGCATTATTACCAACTTGGGTTAACTGCACAAATCCAGGGATAATTTAATATGTTAATATGTGAAAACT
GAAGAAACTGGTTCACTATATTAATAG A/G 1,993 0.121 0.013
0.076 0.009 99.4% 330 70.4% 284 82.8% 58 80.8% 78
100.0% 134 100.0% 66 100.0% 38 97.8% 92
100.0% 42 74.3% 136 60.5% 76 73.6% 72 82.8% 58
80.8% 78
rs732258 AB_ASSAYS_ON_DEMAND 2 103.5468 79493090
forward MIT
ATGTCAGTCTCAGACATATCCAGAAGAAAAAATGTAGAGATGATATATCCAGGAATTCTTCCATCTTCTGACATA
TAAAATTATTTCTTATCTCCTTCCT[C/

T]ACACCTGGGCCTATCCTGCTGAGGTATAACAGATAATCATTACTTATTTGGTATTTGGACCCCAAATTGCCAG
GCATCCACTTCCCCTGTTCTTCCTTTC C/T 2,141 0.071 0.009
0.170 0.007 24.7% 328 62.0% 300 73.2% 56 52.5% 80
26.2% 130 21.2% 66 30.0% 40 22.8% 92
4.8% 42 59.9% 152 57.9% 76 70.8% 72 73.2% 56
52.5% 80
rs2102548 AB_ASSAYS_ON_DEMAND 2 103.9609 80014328
forward LGD
TAATATATAAGAAACCTTATGATCTCACCCATGCCTACATTTCTCTAACCTTGTCATTCTTCACATGCATCTTCG
GCTGTTTTGGTAAAAGGAATTGCTT[A/
G]CATTTATCTGAATATATTATGTTCATATCTAGCAGTGATATTTGTAGTAAATGCTGTACTTTGTCACCCAGAT
TTCTCCTGAAGCATAAAAGACCTAGTC A/G 1,253 0.198 0.140
0.020 0.182 99.0% 196 53.9% 152 93.1% 58 96.3% 80
NA 0 100.0% 66 100.0% 40 97.8% 90
100.0% 38 NA 0 56.6% 76 51.3% 76 93.1% 58
96.3% 80
CV1961968 AB_ASSAYS_ON_DEMAND 2 104.0413 80288889
forward LGD
AAAGGCAGGCTGAACAGTGGGAAGGCATTTCACAGTGAGTCAGCAATTATAGCCTTGCAAATTCTAATTGTCTAC
ACCTTCAGGGTGTAGACAGTTGTGT[C/
G]ACTTTCTATGTATATCCTGAAATGAGTGAAATAAAACTGAAAACCTAAGTGATATAGGAATACACAGGTACAG
AACATCACTGGACAACTCCCATCAAGT C/G extended_map 0.171
0.233 0.000 0.118 87.5% 192 32.5% 154 87.9% 58
73.1% 78 NA 0 78.8% 66 95.0% 40 90.7% 86
81.0% 42 NA 0 28.2% 78 36.8% 76
87.9% 58 73.1% 78
rs310777 AB_ASSAYS_ON_DEMAND 2 105.37 80476256
reverse MIT
GTAGAAAGGACAGAAGGAAAACAAGCATGGGAAAACAGGGGGAGGTGGAGTTTATTCCCAGTAGGGAAAAATGCT
AATTGAGAAGCTAGACAATAATACG[A/
G]CTTGATTAGTTCTTTAGGAAGATATTTCTGGAAGCAATGTTATAAGGGTCTTCGAATTGAGACTACAGCATAG
AGCAGAAGAGAAGAATAGAAGCAGAGA A/G 1,546 0.17 0.033
0.089 0.015 95.5% 312 48.7% 298 70.4% 54 63.2% 76
94.6% 130 98.1% 54 97.2% 36 94.6% 92
70.6% 34 48.1% 156 55.6% 72 42.9% 70 70.4% 54
63.2% 76
rs1444543 AB_ASSAYS_ON_DEMAND 2 105.496 80648154
reverse MIT
AGCTTCCAAGGATATCAAAGAAAACTAGAAGCTAAAGAGAATGCTTAAGTATCAAATATGAAAACAAGGAATTCA
TGCGATGTTTTGTAATCACCTCTAT[A/
G]TGGGATATTCAGTGGAGAACAGACTTAAAAGATTATATTCTAGCATATAGTCTATCACTTGAATAGATCAATG
TAATAAGCAGGTCGAGTGTGCACATAA A/G 416 0.343 0.129
0.126 0.300 5.6% 196 80.8% 156 39.3% 56 17.5% 80
NA 0 9.1% 66 5.3% 38 3.3% 92
4.8% 42 NA 0 78.2% 78 83.3% 78 39.3% 56
17.5% 80

rs731359 AB_ASSAYS_ON_DEMAND 2 105.5496 80719513 forward MIT
GTTTTAATAACATTGGAGGCTTTTTGCATTGCATCAACACTGAGTCATTTTCTGGACAATATTTATTTTACTGTT
TGTTGCCTAAACTTGGTCTGCATGA[C/
T]TACTTTACTGATCCAGGAAACTCATTTTATGATCAGAGTGTATTGAAAACATTGGCTTGTCAGTATGGATCAC
ACTAACCAGATATTTGCCAGAATTCAC C/T extended_map 0.1
0.003 0.184 0.003 12.9% 318 53.5% 286 60.7% 56
60.5% 76 10.3% 136 13.3% 60 7.9% 38 19.0% 84
0.0% 42 54.6% 152 50.0% 64 54.3% 70
60.7% 56 60.5% 76
rs1402777 TSCAF 2 106.6551 82190123 forward MIT

TCCTTTTTCTCTTTATCACCTTCTTTTTTATTATTTGGCAATTTATTTCTATCTCACCTCTATTTCTTTAATCTT
ATTGTTTGCTCTGAGTGTACAAAAT[A/
G]CAACCTTAGCTCTTCACAGTATATTTATAGTTAATATTGTACCACTTTACAGAAAAAGTAGAAATTTGCAGCC
ATATATCCATTTATTTCTCACCTGCCA A/G 1,712 0.141 0.000
0.196 0.003 14.5% 290 64.7% 258 64.8% 54 58.8% 68
14.5% 110 21.9% 64 3.3% 30 12.8% 86
0.0% 40 57.1% 112 76.4% 72 64.9% 74 64.8% 54
58.8% 68
rs1106937 AB_ASSAYS_ON_DEMAND 2 107.8018 84235506
forward MIT
CCATCTTAGGCAAGTGCAGTCTTGGTGAGACAAGGAAATTTGCAACATAATGTGGAAAAATATACTGCTGAGCAC
TCAGAGAAATATAAAAGTGGCATGA[C/
G]TCAAGATAAAGCCCAGCCCTCATTCTGGTTTGAGAGAGAATACCAGTGTACTTGGAATAGTACTATTAACACA
TGATAATGTATTTAAAGGCAATTTAAA C/G 1,937 0.101 0.002
0.129 0.022 59.7% 196 14.9% 148 17.9% 56 3.8% 78
NA 0 70.3% 64 65.0% 40 50.0% 92
61.9% 42 NA 0 13.2% 76 16.7% 72 17.9% 56
3.8% 78
rs725005 AB_ASSAYS_ON_DEMAND 2 107.8506 84726559
forward MIT
GTTCTCAACTTGTGATCCTGTTCTCTATTCCTATTTAGCACTATTACATAACTTAGCTCTCCTTCATCTTTGTAG
CAACAGCTAGCCTTTTCCTTTCTTC[A/
C]GTGAGTGGCTCAAAAGGGATTTTTATCTAAAAACAAGTGCAATGTAACTGAAAAGTTAACTGCTGTTTCCTTT
ACTTAATCTCAAGCCTTTTTTTCTTAT A/C 1,967 0.112 NA NA
NA 37.1% 132 0.0% 156 NA 0 NA 0
37.1% 132 NA 0 NA 0 NA 0 NA
0 0.0% 156 NA 0 NA 0 NA 0
NA 0
rs699664 TSCAF 2 109.5662 85755076 reverse MIT

CTCCCTGCTTTCCTAGGTATGTTCTCCTACGTCATGCTGGCCAGCAGCCCTCTCTTCTGCTCCCCTGAGTGGCCT
CGGAAGCTGGTGTCCTACTGCCCCC[A/
G]AAGGTTGCAACAACTGTTGCCCCTCAAGGCAGCCCCTCAGCCCAGTGTTTCCTGTGTGTATAAGAGGAGCCGG
GGCAAAAGTGGCCAGAAGCCAGGGCTG A/G 2,106 0.067 NA NA

NA 27.3% 110 64.3% 112 NA 0 NA 0
27.3% 110 NA 0 NA 0 NA 0 NA
0 64.3% 112 NA 0 NA 0 NA 0
NA 0
rs934775 TSCAF 2 110.11 85979434 forward MIT
GTGGCTTCCTTTCTCCAGGGAAGTCTGCTTCTGTGCAGGAGCCTGTTCTCCTAGGATGGCGGAGCTGGGAGGGCT
GGGCTTCTCGTCTGTTTTGTTCACT[C/
T]TGGGATCCCCAGAGCCTCCAGTGGAGCCTGGCGTGGTCTAAACGCTTAGTAAACATTTGCTGGATGAATGGAG
CAGTGGAAGCATGAGGTAAGGCGGTGT C/T extended_map 0.079 NA
NA NA 23.9% 134 63.6% 140 NA 0 NA
0 23.9% 134 NA 0 NA 0 NA 0
NA 0 63.6% 140 NA 0 NA 0 NA
0 NA 0
rs1025104 TSCAF 2 110.2182 86325204 reverse MIT

CAGACTACTCAAAATCAGAAAGGCAAAGGGAACTCAGAAAAATAAAGGAAACATAGATCCAGCAGAAGGCAAAGA
GGAAGCCCAGTTACGCTTACACCTA[C/
T]ACAGTTAATTTCTTAAGTGCAAATCAGATGAAAGGCCAAGTTGACTCTCAAAGCAACAAGTGACAGCGTGGAG
ACAAGATGAAGCCAGTTCCCTGTATGG C/T 36 0.399 0.000
0.561 0.087 94.6% 334 13.8% 304 11.5% 52 45.0% 80
92.6% 136 98.5% 66 100.0% 40 92.4% 92
92.9% 42 15.4% 156 10.8% 74 13.5% 74 11.5% 52
45.0% 80
rs718292 AB_ASSAYS_ON_DEMAND 2 110.2668 86448280
forward MIT
ATGAGACAAGTGAAAAATGAATGTTGGTTTACCAGGTCTGAGAATTCAGCAGGCAGAAGAAACCTAGTATGTGGT
TCAAACTGCAAGGGAAGTAAGGTAG[C/
T]CTGGAGACCCCATGGTTTTAAAATTTTTGTTCAGTGGTTCGTCTCACTATGGTTTCTTTTTCTTTCTCTCTTT
CTTTTTTTTTCTTTTTTCTTTTTTTTT C/T extended_map 0.174
0.032 0.391 0.001 3.6% 332 49.6% 282 70.7% 58
53.7% 80 3.7% 134 4.5% 66 0.0% 40 4.3% 92
0.0% 42 51.5% 130 48.7% 76 47.4% 76
70.7% 58 53.7% 80
rs1320149 AB_ASSAYS_ON_DEMAND 2 112.8102 96978633
forward LGD
TCTTCTGACGGGAAAGGTAATCTGGCCGCATCTGTTTCTCTCCTTGCCACTCCTCCCAGGGCAGGGTTGAAGTGG
AGATCGGGAAAGAGGGTCTGAAGTT[C/
T]GAGAATGGGGCCTTCACGTACTATGGAGTGTCGGCCCTAACTGTGCCATCCTCGGGTAAGCCACGGCCCTGCT
GATGCTGAGGGCCAGGGTGGAGGCTGC C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 376 0.355
0.012 0.633 0.016 11.1% 198 91.0% 156 98.3% 58
80.8% 78 NA 0 9.1% 66 20.0% 40 8.7% 92
7.1% 42 NA 0 92.3% 78 89.7% 78
98.3% 58 80.8% 78
rs744145 AB_ASSAYS_ON_DEMAND 2 114.1703 99811449
forward MIT_and_LGD

AGCGCCTTCCCAGCTGCAATTTCGCCTACTCAAGGATCTTAATTGGTGTCCTTTGACTAAATCATGCTGCTAGGG
ATTCAACCTTTTACAATATGCGAGT[A/
C]TTCCCATCCTCTATAAAATTAAAATCCTTTAGCTCTGAGACTGCTGTGCAAGTACATTACAAATGTCAAGTCC
CTCTTCCTTCCTCCCGGCCACATTTCA	A/C	HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression	1,121	0.238
0.005	0.276	0.078	84.6%	298	17.9%	268	24.1%	58
48.7%	80	89.0%	100	77.3%	66	87.5%	40	83.7%	92
	92.9%	42	15.2%	112	19.2%	78	20.5%	78
24.1%	58	48.7%	80
rs3806581	APPLERA_RESEQUENCING	2	116.2798	102856712
	forward LGD
TTATATTTCTTATGCTCTTGGACATGTACACCTCTAAGCCTAAAAGCGGAGAAAGATGTTTTGGTTTTTTTTACG
TGAGCTGGGGGAGGGAGAAGAAAAG[C/
T]GGCAGCGACAGTGTAGCAAATGGGTGAAAGCAGCACAATGTGGCAAGAGGAGAGAACAGGATTCCGATTCCGT
GGGGGCGTGGGAACACTGAGTTCCGCG	C/T	HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression	1,868	0.081
0.009	0.195	0.005	59.6%	198	94.8%	154	100.0%	58
98.8%	80	NA	0	51.5%	66	65.0%	40	63.0%	92
	73.8%	42	NA	0	94.9%	78	94.7%	76
100.0%	58	98.8%	80
rs997136	AB_ASSAYS_ON_DEMAND	2	118.9922	105987422
	forward MIT
ATAGTCGAATAACATGGTGCACTTGGTTCTGGCCCTCATTTCTAGGTAGGAGACTGGGGATGACAGAGCTTGAAT
TTAGGTTAAGTCCTTCTGCAGGCCA[C/
T]ACATGAGGAACACCAACGTGTTGCTGGGTAGAGTTGTTTTTTTGTGAGGCAGTTTACAGAACACAGTGTCCTT
GGGTATCTGCCTTTGCCGTGTCGCAGC	C/T	HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression	916	0.144
0.000	0.183	0.007	87.3%	308	37.5%	264	39.7%	58
27.5%	80	91.1%	112	81.8%	66	81.6%	38	89.1%	92
	97.6%	42	39.1%	110	25.6%	78	47.4%	76
39.7%	58	27.5%	80
rs1402467	AB_ASSAYS_ON_DEMAND	2	122.1548	108616208
	forward MIT
TAGAGTGCTGCCTCTATCCACAACGCAGCCATATGCTGACTGAAGATAACTTTGTGTCTGGAAGAGCCCTCTGAT
TTCTTACACTAATGGCCTTACACGA[C/
G]ATGGAGGATTTTACATTTGATGGAACAAAGCGCTTAAGTGTCAACTACGTGAAGGGAATTCTTCAACCGACAG
ACACCTGTGACATCTGGGATAAGATCT	C/G	HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression	351	0.216
0.103	0.657	0.014	87.8%	196	25.3%	154	0.0%	58
13.8%	80	NA	0	90.9%	66	86.8%	38	85.9%	92
	95.2%	42	NA	0	28.9%	76	21.8%	78
0.0%	58	13.8%	80
rs754352	TSCAF	2	123.7166	111893066	forward MIT

ATGGAATAGAATCACAATATTGCCTCAGACCATAGGACCAATACAGCAGAAGGTCCTGAGAAGCTGCGGCTTGCT
CCATCTCTCAGCCTCCTACTGCTGC[A/

G]TGAAAAATAAACCTTGTAACTATGGAGCTGCCCCTCCTGAATCTGACATCTACTCAGTTATCCTTCGGAAACA
ATCCTGATGTGGAGCACCCTTCCTCAT A/G 2,154 0.035 0.024
0.004 0.057 3.2% 308 18.6% 264 5.4% 56 1.3% 80
3.6% 110 4.5% 66 5.0% 40 1.1% 92
0.0% 42 17.6% 108 17.9% 78 20.5% 78 5.4% 56
1.3% 80
rs4241122 AB_ASSAYS_ON_DEMAND 2 125.4 113774002
forward LGD
GCTTTTGGGTGAGAGGTGAAAAACCCCAACTATCATGCATTGCAGCCCTCTGGTGGAAACTGTGCTTCAGGCTCT
AAATTTCAGGCTCTAGACTGACTCC[A/
G]GGATGAGTATTTGGAAGCTGAAGTCAATCTGTGGTCTCTTCTCCTGTAGAGCAGGAGTCAGCACTTTTCATAG
AGTGCCAGATTCTATATATCCTGCCAC A/G 1,580 0.154 0.103
0.552 0.020 83.3% 198 29.5% 156 1.7% 58 15.0% 80
NA 0 83.3% 66 92.5% 40 79.3% 92
85.0% 40 NA 0 37.2% 78 21.8% 78 1.7% 58
15.0% 80
CV1415203 AB_ASSAYS_ON_DEMAND 2 126.0766 114762639
forward LGD
CAGAGAATGATATAATTGTTCATGTGGATGGGCCTTTAGGAACAATTTTACAATGAACAATTTTACAGAAATGGA
AACAAGCTTGTACTTAATCTTGTAG[C/
G]CAGTAGAGCATCATTTGAAGATTTTTGAGTTAGGCCGTTTGAAATTGGGAAATATGTATTTGGTCTTCAACTC
CATATTCGGACATACAACTCCTATAAT C/G 1,122 0.207 0.036
0.152 0.047 75.3% 198 11.5% 156 29.3% 58 32.5% 80
NA 0 81.8% 66 77.5% 40 69.6% 92
57.1% 42 NA 0 12.8% 78 10.3% 78 29.3% 58
32.5% 80
CV1415235 AB_ASSAYS_ON_DEMAND 2 126.0988 114784756
forward LGD
CACAAATGCTTTATATGTGTATTAATTCATTATTTCTATTAAATGTAGATATTTTTGTTTCTGTTTTTTGTGGAG
GAAGAAAACTAAAGCTGGAAGGCAC[C/
T]TTATTCATAATTAAATGGTTAGCTGTGATACCAGGCAGCTGAGGTCTGTCTGACTTTGCTCTTTCTTGGGATC
ACACTGGTTTTTGTAACTCCACGGTAC C/T extended_map 0.202
0.032 0.152 0.038 24.7% 198 87.7% 154 70.7% 58
68.8% 80 NA 0 18.2% 66 22.5% 40 30.4% 92
42.9% 42 NA 0 87.2% 78 88.2% 76
70.7% 58 68.8% 80
rs708652 TSCAF 2 127.4688 116303994 reverse MIT

TTTGGAAGGTATAGTCAGTCATATTGTAAAAGAATCTTCTTTATTAGAAGTTTCTTAAATAATAAATTATATGTA
TTTAAACTCTACCCTTTCACCTTTC[A/
G]CATCTAGTTCTAATTATTCATCCTTAATAATGGAATACTTTTATTATACTGTCAACTTTTTAGCAAATGGTTT
CTAAAGTGGTAAGTCAATGTAAACAGA A/G 890 0.196 0.001
0.347 0.048 38.1% 202 97.0% 198 100.0% 42 82.1% 56
40.8% 98 45.8% 24 35.0% 20 31.7% 60
45.8% 24 95.3% 106 100.0% 50 97.6% 42 100.0% 42
82.1% 56

rs2677292 AB_ASSAYS_ON_DEMAND 2 127.469 116304353
forward LGD
TTTAGTATTTTCATAATACTATATTTGATAGAAGTCACTTAATTAAAAGTGTTGTCAAGGGAAGTCAGCTGAAAA
TTAAGAAAGCACAGACAGCTGCCTC[G/
T]GTTGCTACCATGAAATTTATGTCTTTTAAGAAGTACTTTATTCTCATTCAACAATGTTTGCATGTTGGTTAAT
TTCAAATGTATCTTTCAAATTTATGAA G/T extended_map 0.171
0.005 0.336 0.051 59.1% 198 3.9% 154 0.0% 58
21.1% 76 NA 0 54.5% 66 62.5% 40 60.9% 92
50.0% 42 NA 0 3.8% 78 3.9% 76
0.0% 58 21.1% 76
CV1290523 AB_ASSAYS_ON_DEMAND 2 127.5587 116473346
forward LGD
CATATTTTATGGAGAAACTATAATTCTTACAAATCTCTACTAACAGTTCTGGTTGTGTTGATGCTTTGGACTGTC
TAGAGAGTCACACTCTTCTGTCCAT[G/
T]AACTTAAAAGCATGACTTTTTAGTATGTTCATTTCCCCATATGGGGTACAAGATTAGTAATATCTTCTTTTAC
CAGGTACTTTCTCTATGATCATGGACA G/T 619 0.215 0.029
0.140 0.059 95.4% 194 40.0% 150 60.3% 58 68.8% 80
NA 0 98.5% 66 100.0% 36 91.3% 92
100.0% 42 NA 0 37.5% 72 42.3% 78 60.3% 58
68.8% 80
rs957549 TSCAF 2 128.0277 117356638 reverse MIT

AATGATATAATTATGCATTTGGATAATGGGAGGGGATTAATAGATGTGTTTCTTTTTTTGACAGGAAGTGAATAA
TCTATCAAATGTATATTTTTAATAA[C/
T]TGGACACTGTGATGGTTAAATGTATATACCTACTTGACTGGATCATGACTGCACAGACATTTGATTAAACATC
ATCTGGGTGCATCTGTTTCTAGGCTTG C/T 1,803 0.126 0.003
0.156 0.005 41.1% 292 89.9% 268 86.2% 58 85.0% 80
35.1% 94 40.9% 66 37.5% 40 48.9% 92
35.7% 42 89.3% 112 89.7% 78 91.0% 78 86.2% 58
85.0% 80
rs1437430 TSCAF 2 128.4346 117861482 forward MIT

TCCTTATCCTAAGTAATTCAAAATAAATATTTGACAAGTATTTCTGTACTAATCAGTTATTGAACTTCTAGTTGT
ATTTCATGCAACCATTGTTTCTAAG[A/
C]CTTAAAAAGTGTTAGCCAAAGAAGGAACGAATGAGAAAGATGAATTCCAACCATGTTTAAGTGAATCCCCAAA
GTTAATTAAGGTAAAACACCTTATAAA A/C 260 0.27 0.000
0.432 0.004 73.0% 304 3.0% 268 1.7% 58 0.0% 80
79.1% 110 62.9% 62 75.0% 40 71.7% 92
81.0% 42 1.8% 112 3.8% 78 3.8% 78 1.7% 58
0.0% 80
rs729253 AB_ASSAYS_ON_DEMAND 2 128.6054 118027382
reverse MIT
TAAGGCACCAGTTATAGAGTTAATACCCCCAAAGTTGCCAATATTCCTGTTTTGCCTATCCTAGTACCACCCTCA
CTGCTTCTGGTGCTCACCCATTTCT[A/
G]GAACAAAGCTCTGCATTTTTTATATCAAATGTGCAGACGTGTGCCACAAGCACACCTCCTTTAACACTGCTGA
TCAGTTATCCCTGCAGAAGATTTTGGA A/G 1,885 0.13 0.178

0.627 0.031 88.6% 306 42.5% 252 1.8% 56 22.5% 80
90.7% 108 93.9% 66 92.5% 40 80.4% 92
90.5% 42 37.8% 98 50.0% 78 40.8% 76 1.8% 56
22.5% 80
rs146993 TSCAF 2 128.6323 118104436 forward MIT

TACTTTAACTTCATCTTTCATTGTGTCTCAAATCTCAGTCTAACATCTATATTTTTAAGAGAGAAAGGCAAAACT
TACCAATACTTCTCAGGAAACTAGA[A/
C]AAAGTTAAGGTTATAGGGCCACAAAGCCCAAAAGACATTTTACAGACATTTTCTGAGGTCAGACACCATGGAA
GCAATATATCAGGGAGTCCTAAGTAAG A/C extended_map 0.115 NA
NA NA 56.0% 134 9.6% 156 NA 0 NA
0 56.0% 134 NA 0 NA 0 NA 0
NA 0 9.6% 156 NA 0 NA 0 NA
0 NA 0
rs895551 TSCAF 2 132.5864 121790951 forward MIT

AGTGGTGCAGTTCACCTGGAGAGGGCCTAAGCAGGACCGACTCCCCCAGGGCCTCCTCCCCGGACCCAGACACAT
TCCTGGTTCCACTGCACAGAAGGAG[C/
T]AAACCCAAGGCTTCCAACAGGCCCCACACCTCACTCCTCCCCTCCCTACCCTGCTCCACCAATGTCTTCACTT
TGCTAGGAAAAACGTCTCCCTGATAAT C/T 723 0.234 0.002
0.354 0.000 65.1% 292 1.4% 284 1.7% 58 0.0% 78
73.0% 122 66.1% 56 55.6% 36 56.4% 78
69.0% 42 0.0% 132 2.6% 76 2.6% 76 1.7% 58
0.0% 78
rs1530578 AB_ASSAYS_ON_DEMAND 2 132.6476 121797273
forward MIT
GCCATGATTCAGACCTAGATCTGTGACTTCAGAGTCCAGATTCTGCTTATCAGTGGGGGTGGCCCCCTCAGTCTG
CACTGCCCCAGAGTCACCTTGGGGA[C/
T]CAGCTGAAATTAGGCCTGCCAGGGGACCACCAAGCCAACCTTCTCGAGAACTGAGACAGCGAGGGTGGAGCCA
GCACGAGCCTGCATCTGGGTGGACCAT C/T extended_map 0.172
0.000 0.274 0.002 55.6% 196 1.9% 156 1.7% 58
0.0% 80 NA 0 66.7% 66 52.6% 38 48.9% 92
42.5% 40 NA 0 1.3% 78 2.6% 78
1.7% 58 0.0% 80
rs7349266 AB_ASSAYS_ON_DEMAND 2 132.66 121815765
forward LGD
AGTTTGTAAGTAATAGGAGCCTTTCAGAGAATTCACTCCTGCATCTTTCTTTGAGTTTCCTTTGAAGCGAGGATT
GACAAGGAGTGGACTCAGTAAATAA[A/
G]AACCCAGAAGCTGAGAGGGCGCCGAATGCAAGCCGATGAGTGAATGTCTAATGACAGCTGTGTTGCTGAGTGG
CCCAATCATCTTTCCTAGACTTGCTGC A/G extended_map 0.174
0.003 0.322 0.022 34.7% 196 92.3% 156 96.4% 56
100.0% 80 NA 0 27.3% 66 35.0% 40 40.0% 90
33.3% 42 NA 0 92.3% 78 92.3% 78
96.4% 56 100.0% 80
rs882759 AB_ASSAYS_ON_DEMAND 2 133.1034 122098218
reverse MIT

GTTCTGAGGCCCTGGCCCAGCTCCGTGGTTTGGGACGCCTTGGTTAGTCAGTGATGTGGGCCCCAAGTGGGAGGG
AGAAGTGGCTGGAGGGATGTGTGTT[C/
T]GTCTTTCCTGGCAGAGCAGTGGCCTCCAAGGGGAGCTGTGCTCCTCTACTCTGCTTGCTTCCTATTGCTGCTG
TCACAAATGGCCACAAATTTTATGACT C/T 1,146 0.184 0.022
0.130 0.041 8.3% 288 62.4% 242 44.6% 56 38.2% 76
3.7% 108 17.9% 56 2.6% 38 10.5% 86
7.5% 40 62.5% 112 64.1% 64 60.6% 66 44.6% 56
38.2% 76
rs735483 TSCAF 2 133.3193 122200334 reverse MIT

CCAGCTGGGTGTGGGCCAGGATGAGGCCGACAGATAGATGGAGGCCCAGCTCAAAGGGACACGGACATCAGGCTG
TGGGACCAGACGTTCCCCAGCAATC[A/
T]CTGGAGGGTAGAGGGGTTTTGCTCACAAGAGCGAGTGATGATGTTCTCATTTCTTTAAAGGCATTTTCACAAG
GAAATTTGGTTTACCTTTGGGAGAAAT A/T extended_map 0.139
0.006 0.162 0.010 38.9% 288 90.2% 256 85.2% 54
82.5% 80 30.2% 96 39.4% 66 31.6% 38 51.1% 88
20.0% 40 90.9% 110 88.6% 70 90.8% 76
85.2% 54 82.5% 80
rs6716602 AB_ASSAYS_ON_DEMAND 2 133.4005 122238710
forward LGD
TTATTTAATTGTAACAGCCTGTTGAAGCCATGACAACACAGACCAAATCTGGAGACATGATATCACATTGCAGTC
TACCTGAATATAGTGCAGAGGGAAA[C/
T]TTGAGGGAGTAAACATAAGGGCAATCTGAACAGCAAGATAAGATAGCTATAGAAAATACTTTGTTTCACCAAG
AGGAAAACACAAATTTCTTATGTTCCA C/T extended_map 0.121
0.001 0.163 0.015 68.2% 198 18.6% 156 20.7% 58
31.2% 80 NA 0 77.3% 66 75.0% 40 58.7% 92
92.9% 42 NA 0 15.4% 78 21.8% 78
20.7% 58 31.2% 80
rs2304560 AB_ASSAYS_ON_DEMAND 2 133.5545 122311564
forward MIT
ACTCAATATAATTATGTTAACAAAAATGCCTCTAATATTTATCAACCATCAGTATTTACCACTTGCTTATTTCAA
GCATGGCCTATAACATACTTACCCG[A/
G]ATAATTAACCTAACAGCTACAACACCAGATGTGGCCATAATTTTGGCACTGTTTGGAATTAAATTAAAGATAG
TTGGCATAATGGCTTCAGCTCCATGGT A/G extended_map 0.103
0.003 0.127 0.008 54.1% 194 10.3% 156 13.8% 58
17.5% 80 NA 0 57.8% 64 65.8% 38 46.7% 92
71.4% 42 NA 0 11.5% 78 9.0% 78
13.8% 58 17.5% 80
rs287790 TSCAF 2 133.8937 122472002 forward MIT

CATTACATTAAAAAGGCAGGTCACCTGAACAACAAAACAAAATCATTAACATTGGTTAACTTTCAGCTGATAAAA
TTACAGGCCCCTTAATCTTATCTTT[A/
G]TGCTTTCCTGTGTTTTCCAAATTTTTTCTATGATGAATACATATTACTTTTATAATCACAATTAGAAAAATAG
TATTCAAAACTCAGGCACTATCATTTC A/G 366 0.215 0.005
0.253 0.026 78.3% 290 13.8% 240 19.6% 56 29.2% 72
84.0% 106 79.7% 64 81.6% 38 68.3% 82

92.9%	42	11.5%	104	12.9%	70	18.2%	66	19.6%	56
29.2%	72
rs192608	AB_ASSAYS_ON_DEMAND	2	133.9266	122487584
forward MIT
GCTCATATTGAGAGCATTTTTTAGAGGGCCATCTTCCTCAGAATAGGATCCCATGCCTGGAGGATAATTTATTAA
ATGAAAAGAATGCTGCTTCTGTCAA[A/
G]CTTTTTAGACAAAATATATGCACAAAAGTAGAACAATAGCTATAGATTCAGATACATACCAGCCCAACTTCTC
CATAAAGAAGGATGGAGATAGCAAAAG	A/G	extended_map	0.144
0.000	0.206	0.014	26.0%	196	79.9%	154	79.3%	58
67.5%	80	NA	0	21.2%	66	18.4%	38	32.6%	92
7.1%	42	NA	0	84.2%	76	75.6%	78
79.3%	58	67.5%	80
rs2255178	APPLERA_RESEQUENCING	2	140.6235	128486530
forward MIT
AAACTCTCTACCCTGCTCAGTCCGTCCTGGATGGAGTGGGCTAAGCCCCAGTTCCCCACCATCTGAGCGGGAAAG
AGGTTGGGGGCGGGTGGGCCGCAGC[C/
T]GGAGACCCAGCATGCCCAGTGTGTCCATCACCCAGGAGCTGCCCAAGTACCTGCGCGGATTCCACAAGTGTTC
GCGGGAGGATGCCATCCACCTGGCGGG	C/T	extended_map	0.116
0.060	0.365	0.100	3.0%	164	37.8%	156	67.2%	58
75.0%	80	NA	0	1.7%	60	0.0%	14	4.4%	90
0.0%	38	NA	0	38.5%	78	37.2%	78
67.2%	58	75.0%	80
rs2261682	APPLERA_RESEQUENCING	2	140.8575	128713639
forward MIT
ATGTGCAGGGAGTAAGGCTTCTTCACTCCAAAAACCACTGAGCCCACTTCAGTGTGGTGCTGGGCCTAACCAGCC
CAATTCTTGTGCACTGATTTTTTTT[C/
T]CCCCATTTCTCGGGTTTTAAAATTTTCTATTCATTTTCTTAAATGGCAGGTATCGTACCCCCCCTCGATAAAA
TAAAATAAAATAAAATAAAATAATAAA	C/T	1,256	0.218	0.078
0.547	0.041	100.0%	188	55.1%	156	22.4%	58	31.2%	80
NA	0	100.0%	64	100.0%	34	100.0%	90
100.0%	40	NA	0	55.1%	78	55.1%	78	22.4%	58
31.2%	80
rs2290111	AB_ASSAYS_ON_DEMAND	2	141.1811	129027667
reverse MIT
AGAATGCCACTACTTTTACCAAACTCACCTTCACTTTAATAATTTTGCTTTTGAAGTTGTTGAGGACGATAACCA
CCTCATCAGCATCAGGGGGAGAATC[A/
G]GTGCCATCGTGGCTTTGCGAGAAAAGAAAGATCAATATTACAAGGCACAATTCTCAAAAGGCAGCAAATGCTC
TCAGAGCATCTGAGTCCATCATCCTTC	A/G	1,839	0.108	0.000
0.142	0.054	96.4%	196	62.8%	156	62.1%	58	35.0%	80
NA	0	93.9%	66	97.4%	38	97.8%	92
100.0%	42	NA	0	64.1%	78	61.5%	78	62.1%	58
35.0%	80
rs841078	AB_ASSAYS_ON_DEMAND	2	141.5379	129373907
reverse MIT
CACCTGTAAGTTATTAAAATGTTTTTGTAAAAAAAATAAGAGTCCCACCCCTCACACACTGCGGCAGGGAGGTAG
ATGTCTGCACTGGGTGCTCAGTCTC[C/

T]GCGCTGGTGAACTCACAGAGGGCGCTCCCTCGCTCACCTCCCTCACTCACTGTAGCATCTGAGGAGGTGGAGA
AGTTTCAGGTGCCAGCCCAGACACACC C/T 765 0.216 0.004
0.369 0.040 85.3% 184 21.8% 156 15.5% 58 5.0% 80
NA 0 84.4% 64 93.3% 30 83.3% 90
80.0% 40 NA 0 21.8% 78 21.8% 78 15.5% 58
5.0% 80
rs2625051 AB_ASSAYS_ON_DEMAND 2 143.9609 131723626
reverse LGD
GGAGTCCCGGGTCCACGCTGAGGCTAAGGCTGAAGGGAAGGCAGAGCTCAGGTGGATGACGGAGGCCAGGCCTTT
CCCTGAGCTTGGTGGGCTCCCTCCC[A/
G]GTCACCTTGTCTGAGAACCCAGGACACAGAGTCCCCTTGCTTTGGACTGGTTTGGTTTGTCATTCCCCTTGAC
ATCGCCTCGCCCCAGAGACAAGAGGCC A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 64 0.366 0.001 0.556
0.097 8.1% 198 87.8% 156 91.4% 58 55.0% 80 NA
0 7.6% 66 2.5% 40 10.9% 92 0.0% 42
NA 0 89.7% 78 85.9% 78 91.4% 58
55.0% 80
CV402313 AB_ASSAYS_ON_DEMAND 2 144.1577 131914463
reverse LGD
TGAGCCACACAGCCTGATATCTCCCCGAAAGCAAGACTATTAGTTTTAGCTAAGGCATAGTCTTTTTGGAATGCT
TCATTAAAACACAACTCACGAAATC[C/
T]GTGACATCTCCTAATTATGAAGCAGACACTGCCCTTCAGACAGTAAGGACCACTGTTGGCTGTGGCTTTGGGA
TGACCAGGGATATAAGCCTTTTCTGTA C/T SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 968 0.212 0.047 0.522
0.013 8.6% 198 67.9% 156 89.7% 58 80.0% 80 NA
0 10.6% 66 7.5% 40 7.6% 92 5.0% 40
NA 0 62.8% 78 73.1% 78 89.7% 58
80.0% 80
CV1604913 AB_ASSAYS_ON_DEMAND 2 149.0091 136122191
forward LGD
AAGGAGAACTGAGTGCCCGGATGAAGATTCCAAGCAATATGTGGGTAGAAGCCTGGGAAACAGCTAAGCCAATTC
CTGCTAGAAGGCAAAGGAGACTCTT[C/
T]GATGATACACGGGAAGCAGAAAAGGTAATTGAGGTTTGAGTCTCTAATACTAGAATGCAAATTACTGTTCTTA
TGATTTAGGAACTCACTGTCATAGACG C/T extended_map 0.331
0.289 0.021 0.467 2.6% 196 71.8% 156 10.3% 58
0.0% 80 NA 0 0.0% 66 0.0% 38 5.4% 92
0.0% 42 NA 0 74.4% 78 69.2% 78
10.3% 58 0.0% 80
rs935612 TSCAF 2 149.0255 136152272 reverse MIT

GAAATATACTTCTCTATAGACTCATGTGCATGCTCAATTAATTAGTCATATATTGTATATCATTTAAGTGGGTTA
AAGAGCAGTGTAAATAAAACATGGC[C/
T]CCTGCCCCTCAAGAATGTTCCATCTAGCAGATTCAGAGGCTTGCCCATCCGTGGCACAATGTATCCTGACAGT
CACAGCTGGCCTCCTCTGGGCAGGCAT C/T 384 0.214 0.040
0.158 0.033 27.2% 294 91.2% 262 74.1% 54 75.6% 78
22.6% 106 34.4% 64 22.2% 36 29.5% 88

23.7%	38	93.6%	110	90.8%	76	88.2%	76	74.1%	54
	75.6%	78
CV11769782	AB_ASSAYS_ON_DEMAND	2	149.3501	136749891
	forward LGD
AGGCATTATAACAAATCTTCATGCCAGTCCTATGTGATAAGTAATAGAAATTCTTTTTTCTCTGCCCTCAGTATG
GAGAAGCCCTAGTCATGTGTTTATG[G/
T]ATTCCATAGGTAATGACATATAAGTATTGTGATTGGGCTGCTTTGTCCTTTATCTTATTTCATAACTGTTAGG
CAGGAAGACCAGTTACCTACTAAGTAC	G/T	extended_map	0.199
0.098	0.055	0.073	15.2%	198	76.3%	156	39.7%	58
45.0%	80	NA	0	15.2%	66	15.0%	40	15.2%	92
	7.1%	42	NA	0	76.9%	78	75.6%	78
39.7%	58	45.0%	80
rs182549	RANDOM	2	149.3923	136827523	forward MIT

GGTTTTCGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACCTCGGCTTCCCAAAGT
ACTGGGACAAAGGTGTGAGCCACCG[C/
T]GCCCAGCTGAGAATGCTGTTTTTAAGGACATCTTTTTAATGGTAACTTATAGGCCTTTACTGATAGGGTAGGG
GTATTCTGACTTCTTTATACTGAAGAG	C/T	extended_map	0.304
0.349	0.002	0.428	2.5%	198	67.9%	156	3.4%	58
0.0%	80	NA	0	0.0%	66	0.0%	40	5.4%	92
	0.0%	42	NA	0	74.4%	78	61.5%	78
3.4%	58	0.0%	80
rs925966	AB_ASSAYS_ON_DEMAND	2	149.4956	137017728
	reverse MIT
TGCACATGCAATTTCAGAATAAATGCATTTCATAAATAGCCTGAGACTATGACCCCATAGCATAGTTCTTGGAAA
TTCTTGCATTGTTTCCATGGTCACA[C/
G]ATACCCCGTGACTGTGAGATGGCTGCAATGGTTGATAGGAAATTCCTAGCATCTTCACTGGTGTCTCTCCTGC
CTAGGCCCTTCCTTCCCAGTATCAGAA	C/G	649	0.189	NA	NA
	NA	76.0%	96	14.3%	84	NA	0	NA	0
	76.0%	96	NA	0	NA	0	NA	0	NA
	0	14.3%	84	NA	0	NA	0	NA	0
	NA	0
rs6747559	AB_ASSAYS_ON_DEMAND	2	150.38	138383945
forward LGD
AGTTCCATCACTGCCTGATGCAAAAGTGCATGGTGTCGTCTCCATCTGTGTGACAACAGGTCCAATGAAGGGACT
ACCTAAATTGGGCAACAAAATATCC[C/
T]GTGACAAAATTCAGATTCTTGAGGTGAGCCACTTCCAACCATGTTTCTTATATCAGTGTTTTTTTTTTTTTT
TTTTTTTTTTCAAAGAACAGGACAAAA	C/T	989	0.201	0.043
0.148	0.012	33.3%	198	94.7%	150	78.6%	56	87.5%	80
	NA	0	27.3%	66	20.0%	40	43.5%	92
16.7%	42	NA	0	94.7%	76	94.6%	74	78.6%	56
	87.5%	80
rs4287717	AB_ASSAYS_ON_DEMAND	2	153.4123	142569848
	forward LGD
CACTTGCCGTCTACAGTTTCTAGGCCAGTGAAGCATGTTGTAATACAAACAAAAATCAGGTGACTTTTAGACCAC
AAACAATACTAACGTTAACTGTAGG[C/

G]CTTCACCTTGATGTATTTTTCTACCTTTTAATACTTGCCACTTCTAGACTATATTAGTAGCGTGATTTAACCT
GTATTGTAGCACTCCTTTCCTTCCTTC C/G 1,886 0.107 0.010
0.243 0.043 31.3% 198 78.2% 156 87.9% 58 55.0% 80
NA 0 30.3% 66 27.5% 40 33.7% 92
40.0% 40 NA 0 74.4% 78 82.1% 78 87.9% 58
55.0% 80
rs351685 AB_ASSAYS_ON_DEMAND 2 154.7977 143931111
forward MIT
TGAAGGTAGGAATGAGCAGCTTTAAGTGTAACTATGAAGAAGCAATCAATACTATGGGAATCAAATGGGGATATA
GCAGATGTAGATTTATCCATTATCA[A/
C]GATTATTCTAACAAATTTTTACCCTCTTGCTGTAGTTCCTCCTATTATCAACCAAGGTGAGGCAAAGTTCTTT
GAAATGTAGACTTCGATAGGTCTCTCT A/C 289 0.248 0.213
0.030 0.051 77.1% 118 7.8% 116 57.9% 38 28.0% 50
NA 0 88.2% 34 75.0% 32 71.2% 52
60.7% 28 NA 0 10.7% 56 5.0% 60 57.9% 38
28.0% 50
rs1517911 AB_ASSAYS_ON_DEMAND 2 155.5392 144645788
forward MIT
ATAAAACAAGACTCCTTGGTTGTTGGAACCCTCACCCCTACTTGCATACGGCTTTTCTGGATTTTCCCAGAAAGA
TATATTTTTCTTCCTCAAGTACCCA[C/
T]AGAAATTTGTACCATTTTTCTGTGCCTTGCATTTTAATTATATCTGTGTCATATCACCCCTCCTAGTTGGTGT
GGCTAAAAGGCTAAACTCTGCTCACTA C/T 1,283 0.167 0.002
0.263 0.001 50.0% 194 100.0% 156 100.0% 58 100.0% 80
NA 0 56.1% 66 52.6% 38 44.4% 90
47.6% 42 NA 0 100.0% 78 100.0% 78 100.0% 58
100.0% 80
rs7600752 AB_ASSAYS_ON_DEMAND 2 156.1255 145388879
forward LGD
GAGAACAAGGTCAGCCAATGAGGTAGATACCAGGATGATCCACCCTCATTTTTCAGCTGAAGAAACCTCTTGTCT
TCATGAAATTGACTACATGAAATAA[A/
G]GGCAAACAATATAAGGAGGAACGATGAAACATGCTGAAGTTAGCCACATACACCTTAGGGTTGTGGGATTTCA
GAACCCCACAAGGGTTCTGAAGAGATT A/G 1,114 0.167 0.040
0.420 0.002 93.2% 192 43.5% 154 20.7% 58 48.7% 78
NA 0 93.8% 64 97.4% 38 91.1% 90
90.5% 42 NA 0 46.2% 78 40.8% 76 20.7% 58
48.7% 78
rs4662260 AB_ASSAYS_ON_DEMAND 2 157.3311 147560147
forward LGD
GATAAAATATCTTCCAACAATTAGTAGGTATTATATCCCATTACCAATCTTATTCCATTATGACAGTCAAAAGTT
TGTTTCCTGGTCAAAAAAGCGCTTC[A/
G]TTTATCAGCACTTATGTATTCTGTGTGTTTCAAAGACTTTGGTAGTTGTCTCCTTGTAGTATTTCAGCTTTTA
AGCTGCTTCCTTGCCTCACTGAGCTCA A/G 1,773 0.161 0.015
0.135 0.120 19.7% 198 75.6% 156 62.1% 58 35.0% 80
NA 0 18.2% 66 20.0% 40 20.7% 92
16.7% 42 NA 0 78.2% 78 73.1% 78 62.1% 58
35.0% 80

rs1979038 AB_ASSAYS_ON_DEMAND 2 158.8099 149421667
forward MIT
TGACGAGATGATGTCTAATTTGAATGATGAATGGTCAGAAGAAGCCAATGTAAAGAAGAAAATCAAGTTGCTAAA
ATTCAATCCACCAAAAGCCATTTCC[A/
G]GAGACTAATTTGCATTTTTAAAGGAATCAGGAAACTGAAAACATTGGTGGAATTGTGGCAGGTATCTCCCTCA
GAACATACACACAGGCACACACACACA A/G 698 0.275 0.004
0.480 0.014 19.7% 198 92.0% 150 96.6% 58 98.8% 80
NA 0 13.6% 66 30.0% 40 19.6% 92
33.3% 42 NA 0 89.2% 74 94.7% 76 96.6% 58
98.8% 80
CV429887 AB_ASSAYS_ON_DEMAND 2 160.4005 150635235
forward LGD
TAAGTAGGATTACACGTTATTTGGGGTTAATATAATTTTCAAAAATGCTTACTGTTAAGATTTTTCCGTATTATA
TTAACTCATAAAATTATAACTCTAA[A/
T]AATCACCCAGGAGTAAAAATGACTTTAATTTAGCCTTAGGAAAAAAGTTATTAAAAATTTTACTCTTCCTATC
TAATGGCAGCATGAGGTCAGATGTCAC A/T 1,582 0.145 0.004
0.169 0.012 72.7% 194 18.7% 150 24.1% 54 9.0% 78
NA 0 81.2% 64 85.0% 40 61.1% 90
88.1% 42 NA 0 14.9% 74 22.4% 76 24.1% 54
9.0% 78
CV1342472 AB_ASSAYS_ON_DEMAND 2 161.5559 152299744
forward LGD
TTTCTTCTAGGAATGACATAAATAGGACCCATAGATAACTGTTTATAGTATTTACATCATTCTCTATCAGGATGA
CCTTGGCTACAACTGGACAGCTCAG[A/
G]TCTCAGGAAATGTACCAGTGTCAGATTGTTTTATTTTTGCAATTATATGTTGGGGAGATGAGAGCAAGACAGT
AAATATTCCCACTACAAATCATTCTGA A/G 1,312 0.168 0.044
0.416 0.037 3.0% 198 47.4% 156 72.4% 58 25.0% 80
NA 0 3.0% 66 0.0% 40 4.3% 92
2.4% 42 NA 0 56.4% 78 38.5% 78 72.4% 58
25.0% 80
rs6733811 AB_ASSAYS_ON_DEMAND 2 161.8745 152748690
forward LGD
ACAGAACTTTATTTAAATTTTTTAAAAGGTGACGTTAGGTGTAAGGAAGGGAGTGTAAAGAACGGATGAGGCTGT
TTAATTTTGGAGCCAAAGGCAAAAA[C/
T]GCACAAGATTGAGAACTATGCAAGAAGTAATTCCAAGGCAGAGTCCATTGCCCACCTAAGCCAATAAGAAGAG
TGATTGATAGTGACTGTGACCACATAC C/T 88 0.344 0.012
0.613 0.175 89.9% 198 11.5% 156 3.4% 58 57.7% 78
NA 0 97.0% 66 100.0% 40 80.4% 92
95.2% 42 NA 0 9.0% 78 14.1% 78 3.4% 58
57.7% 78
CV7628201 AB_ASSAYS_ON_DEMAND 2 166.8977 158895627
forward LGD
ACATTTTATCCACCACCTTATATCTGCACACAAAGTCCTCCATTTCAGGAAGGAAACCAGGACAAGCGTCACTCC
CAGCTGAGCTCTTCGCCAGGTACTT[C/
T]ACTCAAGATTCATCTCCTCCAGGGTGCTTGGATACCCACCCTTGTTCTCCCTTCCCATGGCTTTCCCAACCAG
GAAATCATCACCACCTTCTGACAGCAG C/T extended_map 0.27

0.000 0.394 0.015 85.7% 196 14.7% 156 13.8% 58
26.3% 80 NA 0 92.4% 66 92.5% 40 77.8% 90
90.5% 42 NA 0 12.8% 78 16.7% 78
13.8% 58 26.3% 80
rs1441134 AB_ASSAYS_ON_DEMAND 2 166.9431 158959746
forward MIT
CTGGGAAAGGGTTAAGATTGATCCCATTTGGGTCAGGTAGCCACCCCTGAATGAATTAATGGTAGCCACTGGGTC
ACAATGTATTAACTCAGCTCCCATC[A/
G]CTGCCATATTTGTAAACATGTGGAGGGGACAGTTCCTAGGAAAGAATGGTACTGACTAGACAAAGGGTATTTA
TGTATCAAGATGCTTTGGGCTGGGTAT A/G 1,321 0.27 0.028
0.565 0.079 89.1% 302 19.8% 258 5.4% 56 51.3% 76
92.5% 106 97.0% 66 84.2% 38 81.5% 92
85.7% 42 19.1% 110 17.6% 74 23.0% 74 5.4% 56
51.3% 76
rs4129786 AB_ASSAYS_ON_DEMAND 2 168.1947 161156378
forward LGD
TGAGCAGTTCTTTCATAAACTACATACCTGGAAATTGCAAAGGTCAGATTAAAATTTCAAACTGAACTAGATCCT
CCATGGGATTTGTGAAGTCTTGCCA[A/
T]GTCAATGACACCAAAGAGTGGGGGGTGGGGTAATGGTGGTCAAATCTGTGTCTTTGACTGTCAGGCCTCTCCC
AGGACCTAGCTCCAGGAGAGCTCATGG A/T 785 0.372 0.143
0.123 0.039 98.5% 194 26.0% 154 70.7% 58 48.7% 80
NA 0 97.0% 66 100.0% 38 98.9% 90
92.9% 42 NA 0 25.6% 78 26.3% 76 70.7% 58
48.7% 80
rs888274 TSCAF 2 169.4511 163540193 forward MIT

TGTCGACAATGATTCTTCTGGCTCCTCCAGACTGGGTTACGTGCCCCCTTTCTGCTCACAGATTGCCCCATTTAT
TACCAGTATAAATTTTGTCACACTT[C/
T]GATTTTCTCTTATTCTTTCTATCTTTTCCCACTCAACTAGATGGCAGGGATGTGTCACCACTGTAACCAGAGT
TTGTGAAACAGCATCCTTTTCAGATTA C/T extended_map 0.248
0.127 0.063 0.034 90.2% 204 24.5% 208 66.7% 36
45.2% 42 90.0% 110 94.1% 34 94.4% 18 85.7% 42
93.3% 30 31.2% 112 18.5% 54 14.3% 42
66.7% 36 45.2% 42
rs901304 AB_ASSAYS_ON_DEMAND 2 169.487 163618906
reverse MIT
GAACATGTTCTACCCCGTTTTGTTACCCAGTAAATTTTTGTGATACAGCTATACATTGTAAACTGTGCTCACATA
ATTCAGAACTCCATCTATTAAATAT[C/
T]TGTGACAAACATACTTCAGGCACACAGCCACCTCCTCTCTCTTTCCAGTGTTCACATAGATACAACTATAGCT
CAGGTATATAGTTCATCCAGACACATT C/T extended_map 0.25
0.156 0.048 0.079 12.8% 196 80.5% 154 34.5% 58
48.7% 80 NA 0 13.6% 66 2.6% 38 16.3% 92
7.1% 42 NA 0 84.2% 76 76.9% 78
34.5% 58 48.7% 80
rs901303 TSCAF 2 169.4871 163618991 reverse MIT

TATAGGTCAAGTTTATATGTCAGCAAATAAATATTTTGGAAAACTAATACGAATGCCCACTGTGGTTGTTAGTTT
CTAAAAATGAGAACATGTTCTACCC[C/
T]GTTTTGTTACCCAGTAAATTTTTGTGATACAGCTATACATTGTAAACTGTGCTCACATAATTCAGAACTCCAT
CTATTAAATATTTGTGACAAACATACT C/T 352 0.38 0.301
0.057 0.190 87.4% 334 5.2% 308 63.8% 58 48.7% 80
88.2% 136 87.9% 66 95.0% 40 82.6% 92
90.5% 42 4.5% 156 5.1% 78 6.8% 74 63.8% 58
48.7% 80
rs2060447 TSCAF 2 169.5711 163803097 forward MIT

TTCACATTCATTTAAGTTCTGGTGAAATGGATTTATTTCAAGATATTTTACAGACACCAAGGGAGAGACTAGTTT
CTCTACTTCAAATCCCACATAATGCA[C/
T]GGATTCGCCATACCCTGAAAATGCTGATGACCCAGAAATCATTAGGGAGGTAGAACAATTAATAAAGAAATAG
GAAATAAATCATCCTTGCAAAAATATC C/T 21 0.436 NA NA
NA 93.5% 92 6.4% 94 NA 0 NA 0
93.5% 92 NA 0 NA 0 NA 0 NA
0 6.4% 94 NA 0 NA 0 NA 0
NA 0
CV1120785 AB_ASSAYS_ON_DEMAND 2 173.7178 169661917
forward LGD
TTTGGGGTTTGACCTGAGTAGCCACTCTTTGGTTCTTGGACAGTGTTTTATTCCCAGCCCCAGCCTCTCAGTCCT
GAACAGGTCACCATTCAAAAATACA[C/
G]GTTCCTGTAGTGCCATCATTTCAGGGAAATTCTTTGGGGGCACTGATGGAGTCTCCAAACCAGCATGAAACAT
GTTGCAGCTAATTTGTTCCATGAACTT C/G 805 0.34 0.000
0.453 0.000 91.4% 198 14.3% 154 15.5% 58 15.0% 80
NA 0 95.5% 66 82.5% 40 92.4% 92
97.6% 42 NA 0 12.8% 78 15.8% 76 15.5% 58
15.0% 80
rs1878839 AB_ASSAYS_ON_DEMAND 2 176.1438 171325667
forward LGD
TTAACAGTTTTTGTCAAAGAGTCCTGTGCTTTGCATATAGAAATGTGCTTATTATGCTTTTTTCTGTCAAGCAGA
GAAGTACAAGGACTCTGACACAAAT[C/
G]AGAGAAGGAAGTTCCAGGTTCTTATGTAAGTGTCACAATACCTAGGGGTCTATAGTGAGTTCATACCTCTTAG
TTCACGACAGATTCTCATCTGTGGGGT C/G 1,235 0.173 0.007
0.348 0.010 60.5% 190 4.6% 152 0.0% 58 0.0% 80
NA 0 68.2% 66 61.8% 34 54.4% 90
64.3% 42 NA 0 1.3% 76 7.9% 76 0.0% 58
0.0% 80
rs934858 TSCAF 2 176.4967 171567678 forward MIT

CCTCTTAACAGAGGAACCAGGAGCACAGAGAGTTAAATAAGTTGTGTCTCCCTTATGTGTTCTGCAAGTTTAAAC
ACTGGTTTCAGAGCCCTCTTCAGAG[A/
C]CTTCACTCAGTGCTCTTTTCAGTAGACCATGCCCTGCCATTGGTTTCCATCTTGAATATGACACATTGGAAAT
AAGGTACCAGTCAAAGCTTTGGAAAGA A/C extended_map 0.056
0.038 0.222 0.004 47.7% 302 80.8% 250 96.6% 58
75.0% 80 52.8% 106 39.1% 64 62.5% 40 41.3% 92

57.1% 42 78.7% 94 83.3% 78 80.8% 78
96.6% 58 75.0% 80
rs1011470 TSCAF 2 177.0577 171661542 forward MIT

TTCCTTGTTTTTATATAGTTTAATGATTTGTAGCAATATACTTTAATAGCTTAGCCTTTTAATTTGGGTTTTCTG
CTGCACTTATAACAAAGTTTTGAAT[A/
G]CAGAGTGAATCACTGTTAATAGGATTTGTCTTCTCAAGTGTGCTAGGGCAGGAAAAAAAGTTAAATTCACTCT
TAGGTCCTTTTTACTTTTTGCTTCTGC A/G 1,804 0.106 0.035
0.316 0.040 43.3% 194 88.3% 154 100.0% 58 100.0% 80
NA 0 48.4% 64 34.2% 38 43.5% 92
40.5% 42 NA 0 89.5% 76 87.2% 78 100.0% 58
100.0% 80
rs3770438 AB_ASSAYS_ON_DEMAND 2 177.5241 172008329
forward LGD
ACCCCAGTAAATGTTTTAGATTTTTATAATCAAAGTCATCACAACTTCGTTAGTAATGTGACTTCTTATGGCATA
TTTTGTTTTTACACATTGAAGCCCT[A/
G]GATCATTCTAAATAATGTTGGGTTGCAAATTCCATAATCCATAATGAGCTATTAGAAAAAAGTCAGTTTCAAG
TTGTTGCTAACATAAGAGTTCTTAATT A/G 1,658 0.121 0.022
0.303 0.001 17.2% 192 64.7% 156 81.0% 58 61.3% 80
NA 0 23.3% 60 25.0% 40 9.8% 92
16.7% 42 NA 0 66.7% 78 62.8% 78 81.0% 58
61.3% 80
rs1000721 TSCAF 2 180.4476 174534067 forward MIT

AGACTATTCTATTCAGTTGATGCTGTACTGCAGAATATAAATACATCTTTGGAAAGTCTTTTTATTTAATTTAGC
AAATGAATTATATTAATCCCATACA[C/
T]TAAAAGAAAGGTGAACCAAATCATCCCCTTAATATTGTTTTTGCAGTTTTGCATCCAATATGAAGTCCCACTG
TTTGGAAACTGCCACAAACATTAAGAA C/T 179 0.297 NA NA
NA 18.0% 122 93.0% 142 NA 0 NA 0
18.0% 122 NA 0 NA 0 NA 0 NA
0 93.0% 142 NA 0 NA 0 NA 0
NA 0
rs1991604 TSCAF 2 181.9237 175589967 reverse MIT

TGTTCCTATTTCTGAAGACCAAAAAAAAAAAGCATTATTTTCAAAGGAAGCACTAGGTGGCACTTGTGATGTATT
CCACAGTTGCCTCCGATCCTTTTTG[A/
G]AAAAGGTTTGATAGAAAAAAAAATGCAATAAATATTAAAATGGGAAAATCGTCATTACAATAATGAAGATCAG
CATGATTGTGTTTACTATGTTACTATG A/G 2,153 0.038 NA NA
NA 83.7% 92 100.0% 96 NA 0 NA 0
83.7% 92 NA 0 NA 0 NA 0 NA
0 100.0% 96 NA 0 NA 0 NA 0
NA 0
rs2056509 AB_ASSAYS_ON_DEMAND 2 182.3763 176484119
reverse MIT
CTTATAAGTCCTGTTTCCTCCAAGTTAGCTGGGTTTAGGCTCTTAAATTTCTAGTAGGGGTTTGAGAATTCTTAG
TTATCTTTTGGTCTTTGAGTGACTG[G/

T]CAACAGCAGAAAAAAAGAGACAATTGTAGTCATGCTGTGGGGAGAGGGCTGATATTTTGGTGATGAAAGAGGT
TTAAGTTTCACAGAACTTTAAAAAACT G/T 2,064 0.076 NA NA
NA 25.0% 112 64.3% 112 NA 0 NA 0
25.0% 112 NA 0 NA 0 NA 0 NA
0 64.3% 112 NA 0 NA 0 NA 0
NA 0
rs868179 TSCAF 2 184.0894 177752041 reverse MIT

CTACCAACCTCCAAAGATGCTTGGGAGTTTGGGCACATATCTCATTTCGTATCCTCTAACAAGTACTTACATCAT
TCAATCTAGTGCTATCTTTTAGCAA[A/
G]TATTTTTGAATTGGAGAGTTTCTGTAGGAGAAAAGGACTCAAGCTTAGGCAGAAGTTTGGTGAAACTATATTC
ACACAAAGCATTGTAAATGGAAAAGCA A/G 570 0.284 0.006
0.516 0.009 22.9% 306 95.4% 260 100.0% 58 100.0% 78
16.7% 114 21.2% 66 33.3% 36 27.8% 90
9.5% 42 93.8% 112 95.9% 74 97.3% 74 100.0% 58
100.0% 78
CV11745078 AB_ASSAYS_ON_DEMAND 2 184.9733 178406248
forward LGD
AGGTACTATTTTGGTGGACCTCTTTGGATATTAGAGGCTTGCTACTAGGTCCCAGTGGAACACCTAACCCTGAGA
CACCAAGTGACTTTGCGTCGTAATT[A/
G]TCTATCAGGATCCAGGTGTTAATTCAGGCTCATAACTCACCAGGCCTGGATAGTCCTGAGGATGAGTGAGTTT
AGTGAGCACGTTGCTTGTATTCTCCTG A/G 929 0.188 0.115
0.630 0.003 90.9% 198 35.3% 156 3.4% 58 41.2% 80
NA 0 93.9% 66 95.0% 40 87.0% 92
92.9% 42 NA 0 32.1% 78 38.5% 78 3.4% 58
41.2% 80
rs2364854 AB_ASSAYS_ON_DEMAND 2 185.2094 178580996
forward MIT
TTCTTCTTTTTGAAGTTAGGAATGGAGGGCTCAATTTGAGTGATCAGGGCTCTTTTCCATTCTTGAAAGGACAAC
TATGAAAGCTTTAGCTAAGAAAATG[A/
T]CAGACTTGAATGATGCCAGATTAACCAACGTTTATTAGCACTTGTGTAGTTCTCACTTGAAAACTTAATATTG
TATTCATTTATCTTTTTTTAGGGTGGT A/T 390 0.205 0.070
0.574 0.012 87.9% 198 27.3% 132 3.7% 54 39.7% 78
NA 0 92.4% 66 87.5% 40 84.8% 92
92.9% 42 NA 0 25.8% 62 28.6% 70 3.7% 54
39.7% 78
rs3821010 APPLERA_RESEQUENCING 2 185.3 178885199
forward MIT
TCCACTTGGTTTATAAATTTATTTTCTTACCTCAAAAAGTCGTTGATCTGCATCATCAAAAGGTTTCCCATCAAG
TCTGTTTAACACTTGAGCCACTCCT[A/
G]TGGGGAAAGAGTGGATTATGTGGTCATTTTTAGTACTGGACATTGTGTTTCTCTAATAGAGTAGCCACAGCTA
ACTCTATGCCTTTTTTAAGGAACTGCA A/G 1,820 0.101 0.099
0.443 0.002 74.4% 180 29.2% 154 1.8% 56 23.7% 80
NA 0 73.4% 64 60.7% 28 79.5% 88
52.5% 40 NA 0 27.6% 76 30.8% 78 1.8% 56
23.7% 80

CV1179887 AB_ASSAYS_ON_DEMAND 2 185.3608 179979035
forward LGD
AGCTCAAAATGTAAATTGATTTGTCACATGGCCAGTCATTTATTCATTCATCCGACAAAAGTTTTTTGAACCTAT
GTGACACACAAAGAAGATTAGGACA[C/
T]AATCTCTCTCTAAGGCATACAGAGAAATATTATGGAAATGATACAAAACAAGCAATTAGTGCTGCCTGGAGAT
GTCTCAGAGGAGGCACTATGTGTAGAT C/T 1,213 0.168 0.071
0.502 0.046 7.4% 190 58.0% 138 87.0% 54 32.4% 68
NA 0 5.2% 58 7.5% 40 8.7% 92
2.6% 38 NA 0 54.4% 68 61.4% 70 87.0% 54
32.4% 68
rs4894141 AB_ASSAYS_ON_DEMAND 2 185.8974 181039569
forward LGD
TTAATATTAGTGAAATAAGACTAAGCATGACTTTAAAATTCTTCCTGTTATACATGATATTAAATTGGAAATGAT
AATATATATCTGAAGGAAACTTTTG[A/
G]GTATGAGCAAGGACAATTTTAGCATTTTCATGGTTAAATAAAAGCTAAATCAAAACCATCAAATAATGAATAT
AAAATAAACACAAACTGAATAACAGCA A/G extended_map 0.15
0.320 0.014 0.158 17.2% 198 70.4% 152 6.9% 58
23.7% 80 NA 0 18.2% 66 17.5% 40 16.3% 92
16.7% 42 NA 0 67.1% 76 73.7% 76
6.9% 58 23.7% 80
rs1000764 TSCAF 2 187.0617 182757056 reverse MIT

TTTGAATGTATATTTTATTCAACCTTCGGAGCAGACAATGAAAACTATACTCAGAGGTTTCAGCAGCACTTTGAA
TCCAGAATTAATAACAATTACAACA[A/
G]TATTCAGAAATTCAGCCTGATCTAAAGTAATATTCTATCCCCCCAGGCTAGCATCTGCAAAATCTATACCCGC
ACATTTGCCCCCACATTGAGCACGATA A/G 1,501 0.199 0.040
0.162 0.000 61.9% 270 2.8% 246 15.5% 58 2.5% 80
51.3% 78 71.9% 64 76.3% 38 57.8% 90
60.0% 40 3.3% 90 2.6% 78 2.6% 78 15.5% 58
2.5% 80
rs893407 TSCAF 2 190.4823 190553077 forward MIT

TATAAATTGAAGCCCCACTTTTTGCCATATGTCACAACTCTAATACTAGGAACTGATGTTAGTAAGTGGACTAAT
TGTGTAGTAATCTAAGACAATATCA[C/
T]TTTGTTTTAACAAGGGTATTTTATAAACACTTTATTATATGAATGCTTGAGTGCAAAATGTTTAACCCTTAAA
ATTAGCAAAATTTCATTTAAATTAAAA C/T 1,164 0.152 0.062
0.064 0.012 65.8% 284 11.4% 254 35.7% 56 20.5% 78
73.3% 90 77.3% 66 55.6% 36 54.3% 92
47.4% 38 12.5% 104 11.8% 76 9.5% 74 35.7% 56
20.5% 78
rs256552 AB_ASSAYS_ON_DEMAND 2 190.6159 190944917
forward MIT
TGAGGATTCACTGACTTGTTTTTATATTGAAAAAAGTTCCACGTATTGTAGAAAACGTAAATAAACTAATATAGA
CTATTCATTTGATTCTCAAGAACCA[A/
G]CCATCATCATAATTATGAGTTGTAGGCTCAAAATTGGAAAATAGGTAGTATTTTTGGGTGGTTATTTACTAGG
TCCTCTGTGCAGGGAGAAATCAAACAT A/G extended_map 0.297

0.096 0.153 0.048 82.1% 190 7.3% 150 37.0% 54
26.3% 80 NA 0 79.7% 64 88.9% 36 81.1% 90
72.5% 40 NA 0 10.8% 74 3.9% 76
37.0% 54 26.3% 80
rs256550 TSCAF 2 190.6167 190947281 forward MIT

CCTACGGAAGTCAGACCTGCAGGCCCCTCTTGAACATGTTGCTGAGAAGGTAGCCATCTATGGTCTGGCCAGACC
TAGGAGGTTTTAGATATTTAACTTA[C/
T]CGAAAAATGTTAGACCTGTATTCAGATGAACGGATTTTTGTTACTTTCATTGGCTACGTGATTCTCTGTGATT
TTATCCAGATTTTGTGGCTCAGTTTGT C/T 196 0.288 0.085
0.155 0.033 17.5% 308 90.8% 262 62.5% 56 75.0% 80
15.5% 110 21.2% 66 12.5% 40 19.6% 92
28.6% 42 90.9% 110 88.2% 76 93.4% 76 62.5% 56
75.0% 80
CV2110642 AB_ASSAYS_ON_DEMAND 2 190.6306 190988029
forward LGD
CCCACTTTCTTCTGTGTCTTGTGTCACAGTGTCTGAAACCTTTTTTGTTCAAATTCTCCAGCCCACAAATTTCTA
GCATACTACAGGAGAAAGAAGGAAT[A/
G]GAAGAATAATGACCTGGCCAAGTGGTAGAAAGAGGAAAGATCTTGGAACCCAGTTCTCAGCCTGCCCACTCAC
CCTGTCTTCCGGTACTTGATGCCTTCA A/G extended_map 0.279
0.086 0.146 0.033 81.8% 198 9.1% 154 37.9% 58
25.0% 80 NA 0 80.3% 66 87.5% 40 80.4% 92
71.4% 42 NA 0 11.5% 78 6.6% 76
37.9% 58 25.0% 80
rs984610 AB_ASSAYS_ON_DEMAND 2 191.4489 192011252
reverse MIT
AACAACACGGTTTTAGCATTCATACAGGAAGAATTATGGTTTCAATTCAGAGTTTAAGGTCCTATTTCTCTTAGC
ATGCCTCAAATCCTGCTACTATAAC[A/
G]AAGCCAGGCACATGGACTTGAGTTTTCTATAGTTATTCCAACCCACAATACTAACACAATCTTTACTAATTGC
TTTAATGTTAGAAAAGAAATCCCTCAT A/G extended_map 0.16
0.091 0.032 0.120 10.2% 196 61.7% 154 25.9% 58
21.2% 80 NA 0 9.1% 66 10.5% 38 10.9% 92
14.3% 42 NA 0 56.6% 76 66.7% 78
25.9% 58 21.2% 80
rs1878614 AB_ASSAYS_ON_DEMAND 2 192.4855 192458363
reverse MIT
GAGGAGCAGCCTCTCTGGTGAGGGCAGAAGGAATAAGGCTTGATTTCTCTCCTGCAACAGCCGCCCGTCAGTACA
CAGTTCTCTCTGCCTGTGGAGAGCT[C/
T]ACAGGACATGGGGATGCACCACTGGGCCTGCGGTGTCCAGCACTCTGTCTGGGACTGGATGAGTAAATGCAAT
TCAGGACAGACCAGCTGAAAGCTGTAT C/T 588 0.232 0.002
0.344 0.000 32.3% 300 97.0% 264 96.4% 56 97.5% 80
28.3% 106 23.4% 64 34.2% 38 42.4% 92
35.7% 42 94.5% 110 98.7% 78 98.7% 76 96.4% 56
97.5% 80
rs2271767 APPLERA_RESEQUENCING 2 192.54 192481870
forward LGD

TTTTATTTTGATTTAGAGTACATCTCGGATTTTCCTCTTAACAAACAATAATCTCCTTCTTGCTGACCAAAAGTC
TGGACAAATCAAGTCAGAGGTTCCA[C/
T]TGGTGGATGTGACCAAGGTATCAATGAGCTCACAAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGTAAA
GGTTCAACAGAAGATTTCTGTGCTTAA C/T extended_map 0.304
0.005 0.423 0.002 75.3% 198 1.3% 156 3.4% 58
2.5% 80 NA 0 81.8% 66 77.5% 40 69.6% 92
85.7% 42 NA 0 1.3% 78 1.3% 78
3.4% 58 2.5% 80
rs919538 TSCAF 2 194.8824 196065970 reverse MIT

TTAATGAAACAGTTATTATTTTTACATTTTCATGACAATTAAAATTTATTTATATAAATTTCACTGGGCTGAAAA
AGTGTCATTATGTAAACACACACAA[C/
T]GATGTATTTCTTATACTTAATCACTCGGGGGATGTCAGCAATTTTCTTTTGGAAGCAGTATGTTTCCAGAAGT
AGTTTTTCTTTATTGTAAAGGATATTC C/T 1,872 0.138 0.005
0.254 0.018 14.6% 308 64.3% 266 72.4% 58 48.7% 80
8.0% 112 18.2% 66 10.5% 38 21.7% 92
7.1% 42 58.9% 112 70.5% 78 65.8% 76 72.4% 58
48.7% 80
rs1021335 AB_ASSAYS_ON_DEMAND 2 195.129 196305102
forward MIT
TCTAGTAGCACCCACTAGCAAGTTATCTGCATTGTTCCTTGAGAATGTAGGTTGATGGTCTGTACCTGCTTGAAC
TAGTTACACAGCCCGATTCAAGCTA[C/
T]TGACCAGTCGAGTAGGAGGATTCCTCAGGAAACTTGTGCTTGACTGCCCTAAGACCACCATGTCTCATACATA
TCTTGGCAAATCATGATCTAATGACAA C/T 1,906 0.136 0.157
0.004 0.066 29.7% 310 81.8% 264 36.2% 58 53.8% 78
30.7% 114 21.2% 66 18.4% 38 39.1% 92
19.0% 42 82.7% 110 83.3% 78 78.9% 76 36.2% 58
53.8% 78
rs2061169 TSCAF 2 196.1058 197252212 forward MIT

CCAGCTACTCGGGAGGCTGAGGTAGGAGAATCACTTGAACCCCAGTGGCAGAGGTTGCAGTGAGCCAAGATTGTG
CCACTGCACTTCAGCCTGGGTGATA[C/
G]AGTGAGACTCCGTCTCAAAAAAAAGTAATGGTAAAACCCACAATTACTCTTGCACCAACCTAATAGCTGTACA
TGGACTTATTTAACATAAAAAGCACTG C/G extended_map 0.065
0.000 0.116 0.010 58.1% 310 90.8% 262 93.1% 58
83.3% 78 53.5% 114 65.2% 66 57.5% 40 58.9% 90
66.7% 42 94.6% 112 87.8% 74 88.2% 76
93.1% 58 83.3% 78
rs1869796 AB_ASSAYS_ON_DEMAND 2 196.1763 197320565
forward MIT
TGGAGTTTGCACTTCTACTGAAATCATTTTCAGTTCTGACAGCTGTTAAAGTGTGAACAATGCACTGCCTATAAT
AAGGACCTATATACATCTGCTATTC[C/
T]GTCAACATCATGACTGCCTTCATTTTCAAAGCTCATTTGCCAAGCTGCATTTCCTACCATTTGCTCATCCACC
CATTCATCCACCCACTCACTCTTTCAT C/T extended_map 0.168
0.002 0.201 0.064 85.6% 174 30.0% 150 34.5% 58
60.0% 80 NA 0 93.8% 64 85.0% 20 80.0% 90

97.4% 38 NA 0 32.1% 78 27.8% 72
34.5% 58 60.0% 80
rs2918627 AB_ASSAYS_ON_DEMAND 2 196.51 198183245
forward MIT
ATCGGAGGATACAGACAGAATAGATGAAGGGAGACTGAGAATGAAGGCTAGATTTGATTCAAAATCCTATTTACA
CAGAGTCAATCATAATAAACTCAAA[A/
T]CTCAGAGTTTTAAAATGGCATTTCTTATATTCTAGTTATGATCAGCAGTCCACAGGAAAAAAATAAATATTAA
AATTAAGGAATTATGCTTTTCAGCTCC A/T 1,286 0.189 0.000
0.323 0.002 62.4% 170 3.8% 132 1.9% 52 1.4% 70
NA 0 66.7% 60 60.0% 30 60.0% 80
66.7% 42 NA 0 1.6% 64 5.9% 68 1.9% 52
1.4% 70
rs920249 AB_ASSAYS_ON_DEMAND 2 198.4533 201514872
forward MIT
GCGAAACAGGTCCTAGAATCAGATCTGTGTCACAGAATAGATGCTGTGACAACAAGCAAATTTGGGTTTTGAGTT
CAGTCACATGGAAGATGTTGATATA[A/
C]ACATGAGGAATGAGTCAAGATTCCATTGTTAAAGCAACGTGGCTGAAATTTGATAGTAAACACTCCTAGTGTA
CACTGAGAGTATCTGGGGTAGTATAGT A/C 170 0.298 0.000
0.465 0.166 16.2% 198 90.9% 154 93.1% 58 47.5% 80
NA 0 7.6% 66 12.5% 40 23.9% 92
23.8% 42 NA 0 92.1% 76 89.7% 78 93.1% 58
47.5% 80
rs950233 TSCAF 2 198.617 201796728 forward MIT
TCATTCAATGCTGGTTACTCAGTGACCCAGGTTCCAAGCAAGTCTCTCACAAAGCTTTAATGAGTACCTGCCCCT
AGAGTAAAGTAATGAAGACAATACC[A/
G]AGTGCTGTATGGGTCATGCCTCACTTAACAACAGGGATATGATCTGAGAAATACATCTTTAGGCGATTTTGCC
ATTGTAGGGACATCATAGAGTACATTT A/G 951 0.183 0.036
0.460 0.000 21.5% 302 81.3% 262 96.6% 58 83.8% 80
20.4% 108 24.2% 66 18.4% 38 22.2% 90
35.7% 42 85.5% 110 81.6% 76 75.0% 76 96.6% 58
83.8% 80
rs951185 TSCAF 2 198.623 201807166 forward MIT
GGGGTGGGAGGACAGGCAAAGGGAACATGAGAGCTGCCTTGGACTATGTCTAGACTCCTGAGGTCTGATGTGTTA
TTACATATGAGCAGAGAGTAGAAGA[A/
G]TAACTGACAGATGAGGATCCAGGGAGCCAGATTTCAGCTCAGGGGAAACAAAAAAAAATGTAAAATGGAACTG
CTCATAAAGGAATGGGGATTCCCTGTC A/G extended_map 0.098 NA
NA NA 80.9% 110 37.5% 112 NA 0 NA
0 80.9% 110 NA 0 NA 0 NA 0
NA 0 37.5% 112 NA 0 NA 0 NA
0 NA 0
rs970595 AB_ASSAYS_ON_DEMAND 2 199.207 202839454
reverse MIT
TGTTGTTGTTAAGGGCACTTCCAGATCATGGTATTAAAATGATATCCTTGGCTCGTACAGGACAACTTATTTCTC
TGTTAGATGTAACAGAAGGATGTGT[A/
G]TCCAGTGGAGTCTAAAAGTGGCATCAGTTTATTAAGAAGCAAGGTTTGCTCTTTGTTTAAAGGGCCCCCTGGG
GTTTTGTTACTTTACATATCACTGTGA A/G 748 0.22 0.000

0.246 0.007 1.0% 312 48.9% 266 46.6% 58 38.8% 80
0.0% 116 0.0% 66 0.0% 40 3.3% 90
0.0% 42 48.2% 110 51.3% 78 47.4% 78 46.6% 58
38.8% 80
rs1024868 TSCAF 2 202.0085 205830827 reverse MIT

AAAACTGAGGCTATGCGTCAGTCACTTCTATTATTGGGAGTAAAAATGCACTGTTTATCTCCTCTATGGAATAAG
TTCAGAAAGTGCTATAATCTTTTAT[A/
G]AATCAATTTTCCTTTTTTTAATATTCATTTTTCCCCAGTTTAATGGAAACCACTTTAGTAGCTCTTCGGAAAA
AAATTACTCCTATATTTTGAAGAATTT A/G 1,180 0.244 NA NA
NA 10.5% 114 76.9% 108 NA 0 NA 0
10.5% 114 NA 0 NA 0 NA 0 NA
0 76.9% 108 NA 0 NA 0 NA 0
NA 0
rs2041915 AB_ASSAYS_ON_DEMAND 2 203.4963 206871757
reverse MIT
TCTATAATTAGGGTAGGCACGACTCCTCCTGACTTTCTGCAACTGTTTTCTACACTCTTTATTATCAAATCTTAA
GCACAAATTTTTGGTTTGGGAAATA[C/
T]GGCCCTGAAATTTTGGTAAGGTCCCAGGAATCCCATGGTGAAGAGAAAGCTCTTCAATTAGGATTATCAGGTA
AAATATAGGGCATCTCATCAAATTTAC C/T 1,608 0.167 0.000
0.283 0.081 60.3% 194 5.1% 156 3.4% 58 30.0% 80
NA 0 60.6% 66 61.1% 36 59.8% 92
52.4% 42 NA 0 3.8% 78 6.4% 78 3.4% 58
30.0% 80
rs6716757 AB_ASSAYS_ON_DEMAND 2 204.3491 207827100
forward LGD
GGACATGCTGCCACACACCTGAACTCCCTGGCAATTGAGATGATAAAATCCTGAAACAATAGAGGCCAGTGGGCA
GTGCCAACCAGACAACATTTATTGT[A/
G]ACAGAAGCACTACCAACCCAGCAGATGAGATAACTTAGCTGAAGACCAGACCAGCAGAGAGTGAGGGAAATCT
ATAATGGATGGTAGAGAAGAGAGGGAG A/G 1,841 0.096 0.194
0.004 0.137 68.4% 196 24.0% 154 75.9% 58 67.5% 80
NA 0 67.2% 64 82.5% 40 63.0% 92
78.6% 42 NA 0 26.9% 78 21.1% 76 75.9% 58
67.5% 80
rs288079 TSCAF 2 206.371 210638019 reverse MIT
TCACAAAAATCCATTACCCATTGAGGCCTATCGTAATCGTAAGTTTATTTCAGGAATCACTGATTTCTTCTCTTC
CAACCCAAATCTTACATTTCCTTTT[A/
T]GGTTCATTTAAAATTGTGCCTTTTTCATAATGGCTTCCAAAATTCCCACAAGCACATAATGTCATAAAGCTCT
TTCCTTTCTCAGAATCGCCAACATATA A/T 65 0.364 0.007
0.416 0.012 92.0% 300 12.9% 264 19.6% 56 22.5% 80
92.9% 112 93.5% 62 91.2% 34 90.2% 92
85.7% 42 10.0% 110 15.8% 76 14.1% 78 19.6% 56
22.5% 80
rs723683 TSCAF 2 206.4224 210773981 reverse MIT

GCCAATAGTCATATTTAAGTGGGCCAATTATTATCAAAATAAGTGTTGAAGTCAACTATAATGTGATAGTGGTAG

CAATTTCCACCATTTTAAAATGGTT[C/
T]TTAAATGACACAGATACTCTTCTCCAAATAATTCTACAGAGCAGTTCTCTAGTACTATTTCCTCCCAATAAAT
GTAGAAAAGACATTAATACTTCAGGTT C/T extended_map 0.192
0.001 0.279 0.036 68.8% 260 8.3% 230 8.7% 46
24.1% 58 69.1% 110 76.0% 50 66.7% 30 64.3% 70
40.0% 40 11.6% 112 9.7% 62 0.0% 56
8.7% 46 24.1% 58
rs1558551 TSCAF 2 206.554 211203666 forward MIT
AAGAAAAAAAAGGAGAGATTGGGAAATATTTATGCATTCTATCGCTACCACGCCTCTTCTCTTGTATGGAAAGAA
TTTTCAAAGTTATAGCCTGTAAAAT[A/
C]GTCTTAAATATGTTTGTAAAATCTTTGTGTAACATCAAACATTGACAAATAAGGACATATTTTTAAAAGGGAA
ATACTGTAAATAAATGTTAAACTAATC A/C 1,503 0.191 0.011
0.354 0.000 6.1% 314 58.8% 296 71.4% 56 60.8% 74
4.8% 124 11.7% 60 2.6% 38 5.4% 92
7.1% 42 61.3% 150 44.3% 70 67.1% 76 71.4% 56
60.8% 74
rs1505353 TSCAF 2 208.7632 213405599 forward MIT

TTCATTCTATTTTCTAGCAGACATGATACTCTTAGTGTCTGGCGGTGAAAATGAGTCTGTCTTCTAAGACCCAGC
ACTACTGTGGCAGTAAGTTTTTTCC[A/
C]AAAGCATCCCAAAGTGGTTCCTCAAGCTACAGATAATTGGGATATGAAAGACCATATGCATATACAAGGCAAC
ATTAAATTGAGGTGGCTGTTTTAATTA A/C 1,969 0.121 0.025
0.290 0.095 95.0% 300 56.9% 262 37.9% 58 21.2% 80
100.0% 104 95.5% 66 86.8% 38 92.4% 92
97.6% 42 59.3% 108 53.9% 76 56.4% 78 37.9% 58
21.2% 80
CV1570736 AB_ASSAYS_ON_DEMAND 2 210.8416 215429566
forward LGD
ATAAGGAGAAGGAGGAAACTGATAAAACATGTCACTTCCACACTTATTTGGTCAAAGTAAGTCACAGAGTCATTC
CTAAGTACATCAGAATGTGGCTGTA[C/
T]ACTTCTTCCACATTGAGGAGCTGAAGCAATCTTATGGCCAAGCCTGAATTCCATGTTTAAGGAAGAGGTCATA
CATGATACTTTGAATTTAAAACAATAA C/T 633 0.251 0.119
0.072 0.041 10.1% 198 76.6% 154 36.2% 58 53.7% 80
NA 0 12.1% 66 10.0% 40 8.7% 92
11.9% 42 NA 0 76.9% 78 76.3% 76 36.2% 58
53.7% 80
rs6721234 AB_ASSAYS_ON_DEMAND 2 211.5422 216052083
forward LGD
TCATTTTTGCACTCTCCTCCTATCTTAATCTCCTAACTACATGCCCATCTCACCGTTTTCACAGCTATCCTCATG
GGACCATCACCATCACCACCTGCCT[A/
C]ACCCATCACTCTAAGCTCCTAACTCTACTTCCCGCATGCTCTTTGGTCATCTCTAGTCCTTTTCTCTATACTG
TGATTAGAATATTCTCACCTGGATAAT A/C extended_map 0.205
0.074 0.097 0.012 27.0% 196 90.3% 154 63.8% 58
97.5% 80 NA 0 25.0% 64 27.5% 40 28.3% 92
26.2% 42 NA 0 87.2% 78 93.4% 76
63.8% 58 97.5% 80

rs940279 AB_ASSAYS_ON_DEMAND 2 211.5679 216074876
forward MIT
TTACAGACAGAGGAGCTGCAGTACCAGAGGTGAAGTTAGCCAATTATGAATATGAGTGATAGATCAGTTACCCTG
TCTCAGACCTTCTCTCTGGAAGAGA[A/
G]GCAATTTAATCTGTTGAATACGGAAAGTTACCCCCTTCCCGTTCACATATTGAAGGCAATTAAAATCTCAAAG
AATTCAAATTCCTACTAAGTTGAATGA A/G 860 0.239 0.079
0.120 0.015 76.4% 182 8.6% 152 35.7% 56 1.3% 78
NA 0 75.8% 62 76.7% 30 76.7% 90
60.0% 40 NA 0 10.8% 74 6.4% 78 35.7% 56
1.3% 78
rs3755152 AB_ASSAYS_ON_DEMAND 2 213.5439 217024739
forward LGD
CCTCCTCAGAGCCAGTGGCAGGACCCTCCAGCCCCTCCTACTTTTCCCATCCCTCCCTCCCCCACACTCTCCTCT
CCACTTTGTCCCCACTTCATCTCTC[A/
G]AGGAGTTTGACGAAGGTAAACCATTCCCCTCAAGAGGAAGAAAGAGAGGAGGCGGGCAGGAGCCACAGAGGTC
TGAGATTCTAAGGACTGAGGAGAGAAG A/G 1,486 0.203 0.001
0.338 0.025 23.2% 198 86.4% 154 89.7% 58 71.3% 80
NA 0 27.3% 66 22.5% 40 20.7% 92
21.4% 42 NA 0 82.1% 78 90.8% 76 89.7% 58
71.3% 80
rs207824 TSCAF 2 213.9385 217343945 reverse MIT

GACATCCCACCCTAGAACTCTCAGGTTATCCCCTAAGTCACAGTCCTGGGAGCATTAGAGTTCCACAGTTATCCT
CTCCCGGTGTTGTTAGTATGTATAT[A/
T]GTATTAAATAAGCTACACTTCTCTGTTTGGCAGAAAAATATCTATTAGCTAGAATTTGGCTGGGATGACGTTT
GTGTGAATTTCTTTGGAGTTCTTTAAT A/T 1,642 0.198 NA NA
NA 82.8% 58 20.0% 90 NA 0 NA 0
82.8% 58 NA 0 NA 0 NA 0 NA
0 20.0% 90 NA 0 NA 0 NA 0
NA 0
rs3791896 AB_ASSAYS_ON_DEMAND 2 216.92 219014623
forward LGD
TACCAGCCTTGGAGCCCGATGGAACTTGGGGGAGGGAGGGCAGGAGGCTGAAGGGGTGGGGGAGCAAGAAAAGAA
GACAGGGAGAAAAGAGGTGAGGAGA[C/
T]ACAGAACCGAGAAAGGAGATGGCAGTGCCTGGCATCGAGCAGGCGCCCAGTGGATGCCTGTGAGCTGCAGACA
GAGGCTGCAGAAACAGATGGCAGGAGA C/T 343 0.442 0.025
0.736 0.050 0.0% 196 76.6% 154 91.4% 58 51.2% 80
NA 0 0.0% 66 0.0% 38 0.0% 92
0.0% 42 NA 0 79.5% 78 73.7% 76 91.4% 58
51.2% 80
rs2292549 AB_ASSAYS_ON_DEMAND 2 217.3946 219331046
reverse MIT
GAGATATGGAATGAGATAATCATAAACGGCCAGAGGAGCTTTATTCAGTCAGTGCGGGGTCAAACAGAGGCAGGG
TCTCTGATCCAGAGAAGTGGGGCCC[A/
G]GTAGAGACAGGCTGGATGGCTGAGCTGGACGGATGCTCTGGTAGGAGTCAGCAGAGGCCCTTCCTTTAGTTCA
AGTCCAGGTCGACACTGCTTTGGCTGC A/G 1,010 0.274 0.002

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0.477   0.004   74.0%   192     2.8%    142     0.0%    54      0.0%    78
        NA      0       65.6%   64      75.0%   40      79.5%   88
52.5%   40      NA      0       4.3%    70      1.4%    72      0.0%    54
        0.0%    78
rs689116        APPLERA_RESEQUENCING    2       217.8684        219636428
        forward MIT
CCCTAGTCTGATTTTTTTCTGCCCTCAATCTCCAAGGCCCCGGTTCCCCTCCTCGGCACGCTTTGGTTGTGGTGG
AGCCGGCCCCTATTTCCTTGCCGGA[A/
C]GCCTCTCGCGGCCTTCAGCGCGACCCATCGCGTTCTTTGCGGGCGCCGGGGCCTGGTCCCACGCCCGTAGCAG
GCCATTCATTGATTTATTGCGCTGACC     A/C             1,920   0.148   0.006
0.264   0.061   92.9%   184     46.5%   144     37.0%   54      18.8%   80
        NA      0       95.3%   64      96.7%   30      90.0%   90
100.0%  38      NA      0       50.0%   74      42.9%   70      37.0%   54
        18.8%   80
rs2030452       TSCAF   2       218.7815        220224974       forward MIT

CAATGGGCGAAGGAGATTATCCAAATGACAGAGGAAAGCTGCAGGAGGAGCAGTGAGCCGCTTGTTCAGCTCCTA
AAGAGAGAGCAGTGGTACAGAGTAA[C/
G]GGTGCTAAAAGGAAACTAATTCCCTCATAAGTAACAGCAAAGGAAAGCCCTGGTTAACACGAAGGCAATGGAC
ATGAGAGGAAGGGGAGAGAAGATAAAA     C/G             1,970   0.107   NA      NA
        NA      80.4%   112     34.8%   112     NA      0       NA      0
        80.4%   112     NA      0       NA      0       NA      0       NA
        0       34.8%   112     NA      0       NA      0       NA      0
        NA      0
rs1016201       TSCAF   2       221.3009        220889598       forward MIT

TTTTTTCTTAAAGACAATTTCTTCAGTAGGAAAGATTGTAATTCAGTTATTTGCAATTGGTATCAATTGGTGGAG
CAGAGACTAGGGGTTGCGGCAGAGG[C/
T]CATGATAGTAGCAGCTGCACCCGTCCCCTGAGACCCCTGCTGCCCACGTGCCTGCTGGGTAAACACAGGTTGG
ACCGACTCACAACCAAAATCTTGATCC     C/T             24      0.438   NA      NA
        NA      2.2%    92      85.6%   90      NA      0       NA      0
        2.2%    92      NA      0       NA      0       NA      0       NA
        0       85.6%   90      NA      0       NA      0       NA      0
        NA      0
rs1014491       TSCAF   2       227.0047        224701107       reverse MIT

TGCACTCCAGCCTGGGTGATGAAGCGAGACCATGTCACAAGGGTCTCAGCAAGTGAATAAACAGACATGTGGTGC
CTCACCATGGCTACAGTGTTAGCCT[A/
G]TGAAATGTGGAGCTGGAGGCCATCTGGCAGAGTGAATCCATGCAGTGCAGCCACGCAGAACTAGACTTCATCC
CAGCTTTGTCATTTGCTGGCAGCGGCC     A/G             extended_map    0.129   NA
        NA      NA      53.6%   112     98.2%   112     NA      0       NA
        0       53.6%   112     NA      0       NA      0       NA      0
        NA      0       98.2%   112     NA      0       NA      0       NA
        0       NA      0
rs893451        TSCAF   2       227.0917        224772888       reverse MIT
```

GCCAAATGTTGCCCAAGAGACCAAAACAGAGGCAAACAGTCTCCAAATATATGTAGATCATGAGCAGAAATCTGA
GGCTTGGAGAAAGGGCTGAGAAGCC[A/
G]TGAGCTCTTTGAGGTGTCAAGGGCAGACTCCCATCCCAAGGACTTCCATGGGGAGGGGAAGGACTGGGTAAGT
TTGAATTTTATGGTCAATATAGTAAAT A/G 1,075 0.187 0.059
0.102 0.182 67.3% 300 7.8% 268 29.3% 58 52.5% 80
73.6% 106 57.6% 66 72.2% 36 65.2% 92
62.5% 40 8.9% 112 9.0% 78 5.1% 78 29.3% 58
52.5% 80
rs413028 AB_ASSAYS_ON_DEMAND 2 228.477 226106821
forward MIT
AGGGGTGAAGAATAAGGTGGTTCGTGTCTAGGAGTCTGCAAGTACATAAGCCTACTACATACAGTGCTTTGGGTA
AAAACTGACATCAAATTTGCTTTGG[C/
G]ATACACCTGTATTGTCCTCAACAACTGCCTTAAAATTTGGCTTTCCCAGTCATTACCCTCACTCAGCATCTCC
TTGATCTCTCCTCTCCATATTCAAACA C/G 104 0.347 0.000
0.426 0.019 1.6% 192 71.0% 124 70.4% 54 55.1% 78
NA 0 0.0% 66 2.6% 38 2.3% 88
4.8% 42 NA 0 73.3% 60 68.8% 64 70.4% 54
55.1% 78
rs2396218 AB_ASSAYS_ON_DEMAND 2 228.8956 226515363
forward MIT
CAGTGAAAAAGCTAATGAACCTGGGAAGCTGTCCCGGTTTGTTGCCACCTGAGATGGGCCTTCTCAGCTCTGCTG
GCAAAATACAAGTGTGACGCTATGG[C/
T]TGGTAAGTGATAGATCCAGCTCTCTGAAAGCAGAGCAAAGAAAGCACTTTGGTGGAAAAAGAAAAATAGAGAC
AGAGGGCCAAGTGGAGGAGTTGGAATC C/T 738 0.248 0.003
0.288 0.049 10.2% 196 76.3% 156 70.7% 58 51.2% 80
NA 0 6.1% 66 7.9% 38 14.1% 92
4.8% 42 NA 0 76.9% 78 75.6% 78 70.7% 58
51.2% 80
rs7585750 AB_ASSAYS_ON_DEMAND 2 233.5657 229792792
forward LGD
ATGTATGAATTTGCAGCAGGGTATTCTGAGATCACAATAGAGAAGACAAGACAGAAAGTTTGAGAGCCTTGGTTG
GGAAGAATGACCTGGCTACAGAGCA[G/
T]CACCCAAGCAGGGATGGTCAATAATCACATCCATTTTCAATCTGGTCGGATATACTCAAGTCTAGTCCAAGAT
TCTGTTGGTATCTGAAGGAAAACTGGA G/T 468 0.187 0.030
0.424 0.004 6.6% 198 59.6% 156 79.3% 58 66.7% 78
NA 0 1.5% 66 2.5% 40 12.0% 92
0.0% 42 NA 0 62.8% 78 56.4% 78 79.3% 58
66.7% 78
rs1017117 AB_ASSAYS_ON_DEMAND 2 234.0497 230163728
forward MIT
GAGGCAATATCCCTGCTAAATAGAGTGAAGATAATTTGTAGTCTTCACTCAAAAGAAAGAGCTCAGCAATTTTCT
TGTAACATATTAGTAAAGATGTCTC[C/
T]GTTTCATACACCTGAGGTCCATGTCACTAAGCTTGACCATGTGACATAAAGAAGACAGCTTTAGGATTAAAGC
TCTGACTCATGGACACATTATAGGTCT C/T 1,460 0.146 0.019
0.110 0.002 20.7% 276 74.0% 242 58.9% 56 69.7% 76
20.5% 112 11.5% 52 25.0% 28 25.0% 84

33.3% 30 78.7% 108 69.7% 66 70.6% 68 58.9% 56
69.7% 76
rs1467212 TSCAF 2 236.9432 231783004 forward MIT

ATATTTCATGAAATGGTTTGCTACTATAACAAATGGGTGGTATTTGCCTTTTTGGTTTTGTTTTGTTTTTTGAGA
CAGGTTCTCACTCGGTCGCTCAGGC[C/
T]GGAGTGCAGTGGTGCGAACATGGCTCACTGCAACCTCAACCTCCTGGGCTCAAGCCATCCTCTCACCTCAGCC
TCCTGTAGACGGGACCACAGGCTCGTA C/T 714 0.246 0.014
0.492 0.004 75.0% 284 6.8% 236 0.0% 58 2.6% 78
68.1% 94 80.3% 66 73.5% 34 78.9% 90
65.8% 38 4.4% 90 10.3% 78 5.9% 68 0.0% 58
2.6% 78
rs3769990 AB_ASSAYS_ON_DEMAND 2 237.6379 232130204
forward LGD
TGCTGGTTCTCAGTGGTTATGATGATCACCAGTCCAGTGAGCCTACTGTTAGAGGAAAAGATTAAATCAGATTAG
TATGAGTAACAAGTGGTACCAGTTT[A/
G]TGTAGTTTTTTCGAATACAGGAAACCATTATTTAGTATCTGCATTGTGCTAGGCACCGTGCTAGTCACTCTGC
ATACCATGGTTTATTCCACAGCTACCC A/G extended_map 0.2
0.001 0.237 0.019 8.1% 198 64.9% 154 61.1% 54
48.7% 80 NA 0 10.6% 66 7.5% 40 6.5% 92
4.8% 42 NA 0 65.8% 76 64.1% 78
61.1% 54 48.7% 80
rs1025107 AB_ASSAYS_ON_DEMAND 2 237.8514 232236881
reverse MIT
CAGTCAACAGTGGCAGGGCACATCTGGAAAAAGCATATTTCTACCAAAGCACATTACTGGGAAGGAAAAGAAGCA
CAAGTACATTAGTTAAATGATTCAC[A/
G]TATGTATAAGCATCTCTGCAGTTCAACCTAATCCAATTTTTACTCATCAGAACTCTGCCCTGCCATGCTATAA
AACTGGTGTGCTTCGTGAACTCCGAAC A/G 1,222 0.214 0.005
0.227 0.023 7.8% 306 66.4% 262 58.9% 56 48.7% 78
8.9% 112 7.6% 66 7.9% 38 6.7% 90
4.8% 42 70.9% 110 64.5% 76 61.8% 76 58.9% 56
48.7% 78
rs1868929 TSCAF 2 238.15 232386130 forward MIT
GTAGAGAGGAATTGCCTGACCTACTCCTGTTCCAGGAACAGGAGTATATGCCTAGGGCCAGAAGTCGTTAGATCC
TAGGGATATAGCGGTAAAAGCAAAG[C/
T]AGACATCCTATTTGGAGAAAGCAAGCCTTCAACAAATAAGCAGAGATGATAGCCAGGTGACCATGAGTGCTTT
GAAGAGCAGTGGGGCAGAGGGAAGAGC C/T 1,015 0.219 0.167
0.041 0.153 68.6% 296 5.0% 260 44.8% 58 42.5% 80
67.9% 106 61.3% 62 78.9% 38 70.0% 90
73.8% 42 5.6% 108 5.1% 78 4.1% 74 44.8% 58
42.5% 80
rs6760896 AB_ASSAYS_ON_DEMAND 2 239.0725 233375462
forward LGD
CCAGTCACGCTGCTTGGCAGGTCACCATCCATTCAGTGGTATGTGATGTGGCTGTGTTAGTTATAAAGACCTCGT
AGTTTTGGGGGTGCAGTTGCCCTGA[A/
G]TACCTGCCTGATTGGCCCTTGTAGTAGACCCTGGCAGACCCAGGCCCTAGCTTTGGGGTGCCTGCTCCTCTGC

CCTGCTGGCAGTTGTGCCTCACTTGGT A/G extended_map 0.23
0.222 0.015 0.106 82.7% 196 16.2% 154 70.7% 58
52.5% 80 NA 0 83.3% 66 89.5% 38 79.3% 92
92.9% 42 NA 0 15.8% 76 16.7% 78
70.7% 58 52.5% 80
rs2341564 TSCAF 2 240.7849 234422218 reverse MIT

CAACTTTCTAACCTCTCAGTTGTTCTTGGTTTCTTTTCTGACAGCAGCTTCTAGCAGGGGTCAGTCTCCTGGGGT
CCGGCTACCACCACCTCAGGTAATG[C/
G]CATACCCACCCCCCTTCAGATCTAAGGAAGGTGGTGGCTTCCTGCTGTTGCTAGTCCCTGACCGCCTCCACAT
CCCTGCTACTTCTCTTAACTCTGCCTG C/G 2,077 0.074 0.004
0.077 0.032 53.6% 304 15.8% 260 21.2% 52 2.6% 78
53.6% 112 48.5% 66 47.4% 38 60.2% 88
42.5% 40 16.1% 112 20.8% 72 10.5% 76 21.2% 52
2.6% 78
rs1000141 AB_ASSAYS_ON_DEMAND 2 240.9334 234529161
reverse MIT
TGAGCGTAATTTGAGCATTGAAAAAAGCAGAAACAGCATTGTAAAGATGGCTGGAATAGGAAGAGGGCCCTTGGG
GTTGGGCTCAGAGGATGGACTTTTT[A/
G]TGTTTGTGCAGAGCTTGCCAAAGGACTATGCCAAGGCTCTGGGGCCACTCCCCAGAGCTTCAGGATGTGGGTT
TGGATGGTGGGGAGCAGCTTGGGAGTC A/G 1,703 0.166 0.272
0.006 0.004 95.3% 300 48.8% 256 100.0% 58 56.2% 80
94.6% 112 96.8% 62 97.4% 38 94.3% 88
92.9% 42 44.2% 104 60.3% 78 43.2% 74 100.0% 58
56.2% 80
rs737636 TSCAF 2 242.2167 235119575 reverse MIT

CAAAATCACACCGCCAGATCCAGCGATCCAAAATTCCCTGGAAACAATGGGCAAAGGGCTGGGATGTCCATGCCC
AGCATGAGTCCTTCCGCTCCTGACT[C/
T]GCCCACCTTGGACTTATCTGTCAGTGTCAGGAGAAGGTCCCTGGGGATGATCTGAGCACACCAAAGCCTAGGA
GGAACTTGTGAGAAGCTTATCATCCAT C/T 134 0.318 0.185
0.066 0.161 6.7% 314 79.1% 278 28.8% 52 32.4% 74
7.4% 136 1.7% 60 8.3% 36 8.5% 82
8.3% 36 78.8% 156 85.5% 62 73.3% 60 28.8% 52
32.4% 74
rs2215173 AB_ASSAYS_ON_DEMAND 2 242.2723 235141922
forward LGD
GGTTTACTTTTTTGAATCTTGGCTACTTCTGAGTAACAGAAAACAGTGGTCTCAAGAGAAGAATGCAACAGTTGA
GTGAAAGCCATTATTTGCCGTGGTT[A/
G]AGTGACATGTACTCTCTCTCTTCCTGTGGACAGGGTATTGAGATGTGTCCTGCTGTGGAACAAGATTACCTTG
TGATTTAATGATAGACATAATGACAGG A/G extended_map 0.316
0.184 0.069 0.210 8.3% 192 82.5% 154 32.8% 58
29.5% 78 NA 0 3.1% 64 10.5% 38 11.1% 90
9.5% 42 NA 0 82.9% 76 82.1% 78
32.8% 58 29.5% 78
rs1027868 TSCAF 2 243.2719 235543495 forward MIT

GGGACTGTATATCCCCAGCCTTATGTTTTCAGGAGACTATTTCTCCCCAACATGTTCAAAATATTATTCACTTCT
GCAAAGATGAGGATTCAACTGCCCC[A/
G]GTGGGCACAAAGAAGAAGAACGTTGGGCAGCGCGTGAGGCGAGGAGGATTGAGGGAGCTAAATATGGGCTGAA
ACAACCCTCAGGAGTGTCTCAGCTGCC A/G 1,148 0.264 0.030
0.570 0.016 18.5% 298 89.1% 266 100.0% 58 97.5% 80
18.9% 106 14.5% 62 25.0% 40 17.8% 90
9.5% 42 94.5% 110 80.8% 78 89.7% 78 100.0% 58
97.5% 80
rs884062 TSCAF 2 244.0535 235857484 reverse MIT

GAGGCCACCTCTTCCCCTCGCCAACACTACACTCCTGGGTTGTGCCTGTGAAGAGGGGCTCAAGCTCCACAGGCA
GAGAAGGGGGTGAGGGGCAGCCCCT[A/
C]ACTGTACAAATCATCCAGGTCAGAAGGTTGGCCTTCTTCTGGTAACTCTGGTGCCCCCACATGTGTGTCTCAA
GTTCCACATGGTCCAATGTCTCCATGC A/C 1,971 0.166 0.008
0.140 0.066 3.0% 300 46.7% 242 35.7% 56 17.9% 78
3.6% 112 1.6% 62 0.0% 36 4.4% 90
7.9% 38 48.1% 104 50.0% 68 41.4% 70 35.7% 56
17.9% 78
rs737710 AB_ASSAYS_ON_DEMAND 2 245.5875 236408691
forward MIT
TTGAGAGCTCAAGACTCATTCTAGGCTCTGCCCCAAACCCCATTTTGGTCTCGGACATGTCCTTCAGATTCTTTC
TGGGAGTGCATTCCTGGTGATTCTG[C/
G]TTCCCATATGTGCTTCCAATTGTCATCTAGCAGGTACGATGCCATCATATCTGCAGAACACAGGAACTATTTA
CCCCTGGCAATATTTTTATCCACAAAA C/G extended_map 0.077
0.020 0.041 0.084 63.8% 282 24.2% 244 39.6% 48
1.3% 78 58.2% 110 55.2% 58 73.3% 30 73.8% 84
55.6% 36 20.9% 110 22.7% 66 30.9% 68
39.6% 48 1.3% 78
rs935925 AB_ASSAYS_ON_DEMAND 2 248.3417 237501295
forward MIT_and_LGD
TGCGTCGCGTTCTGCCAGGTGCCCTCACATGCACTGGGGCCCCAGTCAGTTTCTTTAAGCCCAATCCGGATCTTC
CATCCTTTTTGCTTCCAGGCGATAT[G/
T]TGTGATCCACTGCTGTCTCTTCGTGGTGTCTCCTGATGACATCTGCAGGGGCCCCCTGTGAACTCTTTCTAGT
TAACAGGCATCACTTTTGTGCAGTGAG G/T 60 0.38 0.012
0.486 0.178 16.8% 286 98.7% 300 94.8% 58 62.5% 80
13.6% 88 15.2% 66 17.5% 40 20.7% 92
14.3% 42 100.0% 144 100.0% 78 94.9% 78 94.8% 58
62.5% 80
CV1354130 AB_ASSAYS_ON_DEMAND 2 248.6937 237783987
forward LGD
TTGTTAAAAGTGTGAATTGTGTTTCGTGCCACACTGTAATGAGAATTTTAATTTCATGCGCAGCCCAAAGTGTAA
ATGAAAAATCGTCCGTTGCCCAGCT[A/
G]TGCAGACGGTGAATGTCTTTCCCTGCGACATATTCCACACTCGTTCTTGTTAATTTATTCATCCATCCACACG
TTTGTTCGTTCACTCACTGATGGACAA A/G 329 0.361 0.032
0.691 0.001 96.0% 198 20.5% 156 5.2% 58 23.7% 80

```
        NA      0       97.0%   66      97.5%   40      94.6%   92
100.0%  42      NA      0       17.9%   78      23.1%   78      5.2%    58
        23.7%   80
rs751317        TSCAF   2       248.8147        237881852       reverse MIT

TTGCAAAACGTCACCTGGCTGTCATGAGGGGACAGGATATAGTAGAACGGGGATCCCGGGCACATGGAGAAAGAT
GGAAAGGCATAAGGTCCATCTGGGC[A/
G]TGGATGCAGTGTGTGAGGAACAGAGGGGACCATGGTTTGTTCTAAGGCCTCTGGCTGGAGCCACTGAGTGGAT
GGTAGGCTGAGGAAGACTGCAGGGCAA     A/G             extended_map    0.123
0.006   0.124   0.009   26.4%   296     76.0%   246     68.2%   44
85.7%   70      14.9%   114     37.5%   64      34.2%   38      30.0%   80
        41.7%   36      75.0%   112     78.1%   64      75.7%   70
68.2%   44      85.7%   70
rs934397        AB_ASSAYS_ON_DEMAND     2       248.953 237993689
reverse MIT
GTAAAGGGAAAGGCATTGCAGAAAGAAAATGGAAACTGGGCCCACGGATTAACATACATTTAGAAGACAGAAAAT
AGAATTTCATAAGATTGAAAAGCAA[C/
T]GACCATCATAGTAACATTCCCAGATACTTTAAGCCCTCTTCTTAGCCTCCTAATAACTTAAACAGTATTGATC
TCCCTTTTATAGATCCTATATGCTATA     C/T             extended_map    0.07    NA
        NA      NA      66.1%   112     27.8%   108     NA      0       NA
        0       66.1%   112     NA      0       NA      0       NA      0
        NA      0       27.8%   108     NA      0       NA      0       NA
        0       NA      0
rs729454        TSCAF   2       249.1315        238138088       reverse MIT

CAGCTGAAAGTGGGTGGGTGAGTAAGACCTGTTTTCTTCATCTTCTCGATGCTGTTGACGCATATGTTAAGATCA
TGATTTGGGGGTTTTCCCTTCTTTT[C/
T]ATTATTTGAGATGGCAAACTGTTGATATTTTGCTTTTAAGATGTGACAAATTATCAACAGGATTTTCCCTTGA
AAGACGTATAGCCTAAATGGAGTTAAA     C/T             2,107   0.069   0.001
0.080   0.043   12.2%   304     44.6%   258     41.1%   56      69.2%   78
        12.1%   116     15.0%   60      13.2%   38      10.0%   90
15.6%   32      46.4%   112     37.5%   72      48.6%   74      41.1%   56
        69.2%   78
rs6747043       AB_ASSAYS_ON_DEMAND     2       250.3362        238621001
        forward LGD
TAGAACTGCCTGCCAAGGAGACCCATGCTGTTCACAGGTCATTCCTGATATTTACATGTACTGGTAGTTTTAGCT
GTGCCATGCCAATATGCCTTCCAAA[C/
G]GTGTTTTTCATCATTCTTCTAAGACACGGGGCTTAGTTAGGGAAGGTTCTGAAGACTAAACTATAAATATCTG
CTTTTCATTAATTCTAAATGAACAGCC     C/G             939     0.293   0.093
0.144   0.039   84.3%   198     10.3%   156     41.4%   58      28.7%   80
        NA      0       86.4%   66      80.0%   40      84.8%   92
92.5%   40      NA      0       9.0%    78      11.5%   78      41.4%   58
        28.7%   80
rs7577227       AB_ASSAYS_ON_DEMAND     2       250.5595        238698601
        forward LGD
AATTCCATCTCAAAAATAAATACATAAATAAATAATAAAAATCCATTTTTTTGATCATAAGGAATTTGAAATCAC
```

CCTTAGCCGGACTAGTTGGAATCAC[G/
T]GACACAGGCAACTCTAGAGATGAAAAAAATAGGGGCTAAAACAGGGACTCCGCTGCCAAGGCAGGGCCTGGAG
GGGAACATTGGTCTGAGATGTTTTAGG G/T extended_map 0.254
0.114 0.098 0.045 77.6% 196 7.8% 154 41.4% 58
26.3% 80 NA 0 82.8% 64 77.5% 40 73.9% 92
88.1% 42 NA 0 6.4% 78 9.2% 76
41.4% 58 26.3% 80
rs1446926 TSCAF 2 251.8213 239137209 forward MIT

AGACAGGTCACATAATGACAGTTCTTTGAGAATGAGGTCTGTTCTGCTCTCTCTGGTGCTGCGGATGTGTGCTGT
TACCTGTATGGAAATAAGGAGAGAA[A/
G]CAAAGGCTATTTATCTACTCAGAGCTTGCTATGACAAGGGAGGAAGCCACTCTCCTGTGTTTCAGCAGACACT
CAAAAGCAGGCAGGGGAGTGGGGAAGC A/G 1,425 0.271 0.026
0.182 0.103 99.7% 312 46.0% 252 65.5% 58 82.5% 80
100.0% 114 100.0% 66 100.0% 40 98.9% 92
100.0% 42 49.0% 96 46.2% 78 42.3% 78 65.5% 58
82.5% 80
rs472357 AB_ASSAYS_ON_DEMAND 2 253.0974 239642204
forward MIT
GTTATTATTGTTTTTCCCAAGTTCTCTGTTCTGGATTTTCAGTTGCATATTAATGTAACGGGCCATGGGGTATGT
ACATGTAGGGGCTGAGGTTGGAGGC[C/
T]TACTAATTTCCCTGTAGGGAAGACTCCCAGCACTTCTGGAACTGTGCTTCTCTTTATTTTTCTACTTCTCAAT
TTGATGGTTCGATTAAAGCCTTCTAGT C/T 1,805 0.224 0.022
0.162 0.074 4.6% 304 60.9% 266 43.1% 58 28.7% 80
5.7% 106 0.0% 66 5.0% 40 6.5% 92
14.3% 42 62.7% 110 53.8% 78 65.4% 78 43.1% 58
28.7% 80
rs907109 TSCAF 2 253.6302 239853059 forward MIT

AATCTCTTCGCCCCGTCTCTGGCCCTGTGACATCCCCATGTTCTGAATTCCTTGTTATGCAGAACCCTTCCCGCT
GTGAGCACAGAGCCTCGCATCACAT[C/
T]GGCAGAAGCTCTTCCAGGAGAGGGCCCAGGTGGGAGGCTGTGGGCTGGATGGGGTCAGGGTTCTCACTTAGTG
ATCTGCCCCCTGCTTGGCCCCATTGCC C/T 375 0.214 NA NA
NA 78.7% 94 13.5% 96 NA 0 NA 0
78.7% 94 NA 0 NA 0 NA 0 NA
0 13.5% 96 NA 0 NA 0 NA 0
NA 0
rs563856 TSCAF 2 254.8458 240334086 forward MIT

GACCCATTCCAAACGCTGACTTACATGTGATGTCATTTTCCCCCAGTGTTCTTAACTGAATTGCAACTGTTGTAT
TTACCATGGTGGGGAGGGGCACGCA[C/
T]GCAAAGTAGAGACGAGGTAGAGAAAGTAGAAGTATTCTTTAAGGTAAAGATATAAAAATATTCTGTAGATAAC
ATGTAACTTAAGTGGCCCTACCTTGGA C/T 1,690 0.167 0.156
0.004 0.165 0.0% 300 34.9% 232 0.0% 52 0.0% 70
0.0% 114 0.0% 66 0.0% 36 0.0% 84
0.0% 38 38.7% 106 34.5% 58 29.4% 68 0.0% 52

0.0% 70
CV2125057 AB_ASSAYS_ON_DEMAND 2 257.548 241316005
forward LGD
TTGGTAACGGCAGAGGGAAAACATATCAGGGAGGGTTTGGGGGCAGAAGCTTAATGTTAATGGGGCAGGCAGAAT
TGGAAAGGAAGTGGCACAGAGCTAG[C/
G]AGGAGCAGATGCCTCTCAGGAGGAAGGAAAACAGTGATACAATTTGGTGTACTTTCACAGTTTACCATTTCCC
AAAACATTTCATCCTTTTACTTCTGGT C/G 584 0.218 0.064
0.086 0.060 96.4% 196 42.3% 156 72.4% 58 71.3% 80
NA 0 98.5% 66 90.0% 40 97.8% 90
100.0% 42 NA 0 51.3% 78 33.3% 78 72.4% 58
71.3% 80
rs1470414 TSCAF 2 259.7899 242398236 reverse MIT

GGTCTTGCTTTTGGCTTGAACATATTGAAGCTTAGTTAAATTTACAGCTGGAGCACAAGAAGCTTTTATGATAAG
CACGGGGCTTTTCCTCCAGGGCACC[A/
G]TCACGTCATGTGACAGTCTCTTTGCTCATCTTCACGGGTACGTGTCTGGGGAGGACGTGGCTGGGCAGCATAT
CACAGACCTGATCCCTTCTGTGCAGCT A/G 1,644 0.075 0.044
0.013 0.069 91.8% 292 60.7% 244 84.1% 44 88.2% 76
93.5% 108 93.5% 62 89.5% 38 89.3% 84
90.0% 40 60.9% 110 57.6% 66 63.2% 68 84.1% 44
88.2% 76
rs1470413 AB_ASSAYS_ON_DEMAND 2 259.7901 242398425
reverse MIT
CTGGCATTAGAGACAGCCCTCATATGTGAACTGGGATGTTATTAATGAGCTGTGGTGTGGGCCAGGCTCCTGAAG
AACAAGAAGGCCCACAATTTAGGTA[C/
T]GTCTCTGGTAGAAGGAGACAGATGATGAAGCTCTTATCAAATTCATGTGTATATGTCTCTTGCCCTTCCGATG
GAGAAGTCATGTTGGGGTCTTGCTTTT C/T extended_map 0.1
0.109 0.001 0.115 5.8% 154 41.0% 156 7.1% 56
6.8% 74 NA 0 1.8% 56 25.0% 8 6.7% 90
6.2% 32 NA 0 42.3% 78 39.7% 78
7.1% 56 6.8% 74
CV25755144 APPLERA_RESEQUENCING 2 260.4349 243004114
forward LGD
TCCTCTCACGGCTCTCATGGGCCCACGTGGTGGCACAGGTGCATGGGGCCCCTCGGGGTGGGAGGTCTTGGTTCC
TGGCCCTGGGCCCCTCAAGGATGTG[C/
T]GGGCTACATACACCCCCATCCTGAGGGAGGCCTGGCCCTGCCCTGTCCTCCCACGAGAGGGTGATTTTGTGTC
CACTGCCTCGGGGCCACACAGAGAGGA C/T extended_map 0.085
0.009 0.063 0.016 13.8% 196 51.3% 154 39.7% 58
66.2% 80 NA 0 15.6% 64 12.5% 40 13.0% 92
16.7% 42 NA 0 56.4% 78 46.1% 76
39.7% 58 66.2% 80
CV2769393 AB_ASSAYS_ON_DEMAND 2 260.4923 243058081
forward LGD
CACTGGCTTGTTGTGCTCCTATGTACCCTGTAAAGCCCCATGCAAAGGCCCCAGTCCAAGCAGGAAGCTCACCCC
TTGTGTCCTCTCCAGATGCTGAGCT[C/
T]GCCGAGTGCAGGTGTGGTGTCTGGTTCCCTCGTAGCCTGTGCCTGACCTGCACTGAGACGCTACGGCCCACGT

GGCAACCCCCCATCACTGAGGGGACAC C/T 1,201 0.107 0.003
0.115 0.004 21.7% 198 67.5% 154 61.1% 54 60.0% 80
NA 0 19.7% 66 22.5% 40 22.8% 92
14.3% 42 NA 0 76.3% 76 59.0% 78 61.1% 54
60.0% 80
rs2055314 TSCAF 3 1.4085 244035 forward MIT
TATATAAAAAAGAAACACAAGGAACAAAAAATGATATCTTATTCTAGTGAAGGAAATCCAAAGTTGGGGTCTAGA
ATACAAATACACCTGTGTGCAAGCT[C/
T]CAGTGATGCCAGTTCCTAGTACTGGAGAGCATTGTGACTCTGAGCAAAAGAGGGAAGACAAACATATGAACAG
AAAACCTCGTCTTTTCTCAAACATCCT C/T 650 0.21 0.021
0.401 0.000 1.6% 182 50.7% 152 67.9% 56 51.3% 78
NA 0 1.6% 64 0.0% 28 2.2% 90
0.0% 40 NA 0 43.4% 76 57.9% 76 67.9% 56
51.3% 78
rs7627719 AB_ASSAYS_ON_DEMAND 3 1.6152 430470 forward LGD

ATCAAAACCTATTGGCTCGAGTTTTTAAAAAATACTCATATATTTAGAATATACAGTTGCCTCCACCAAAAAGCC
TTGTATAGTGCATAAACACATAAAG[A/
C]TGCTCACAGCAGAACTGATCAAACTGCCAAAAAAAAAAAAAGATTTTTCTTTTACAGCTGATGCCAAGCCCTT
TCTTTTTTCCTTTTAGGGAAAGAAAGT A/C 320 0.251 0.002
0.391 0.001 65.3% 196 0.0% 152 0.0% 58 0.0% 78
NA 0 66.7% 66 70.0% 40 62.2% 90
64.3% 42 NA 0 0.0% 74 0.0% 78 0.0% 58
0.0% 78
rs1488755 AB_ASSAYS_ON_DEMAND 3 4.6779 1914037 forward LGD

ATATCATTCCACTATAAACAAGTAGACATGCTAGAAACAAAACACAAAGCCACCTTTAATAGGAAAGTCTTGGTA
TCATGCAGTCTAGACAATAATTCTT[A/
C]AATTAGCACCTAGTGGTATTAGAGAAAGAAAATAGAAGAGAGGTATAGAAAAATAGAAGAGATAACTTGAACA
ATGAGCTGAGTCAAATGTGCTGAACAT A/C 1,873 0.072 0.043
0.013 0.001 14.8% 196 49.4% 154 25.0% 56 52.5% 80
NA 0 15.2% 66 21.1% 38 12.0% 92
11.9% 42 NA 0 47.4% 78 51.3% 76 25.0% 56
52.5% 80
rs7611703 APPLERA_RESEQUENCING 3 6.4941 2749996 forward LGD

AATTGAGATGATTGATATTATATATACACACACATAATTTTGGAATTGGGGACAACAATGGAAATATTTCTCTCT
TAGAGAAAATCCACCAAACTTGTTG[C/
T]TTTATTAGTGATCTTGACGAATAACATGTTTCATTTACCTAGATGTGCCAAAAATCACTTAATTCTTTACCAT
TGAAGTGAGCTCACATTTGACCAGTAC C/T 131 0.319 0.080
0.162 0.025 6.1% 196 78.7% 150 46.3% 54 61.8% 76
NA 0 4.5% 66 18.4% 38 2.2% 92
11.9% 42 NA 0 80.8% 78 76.4% 72 46.3% 54
61.8% 76
rs716297 TSCAF 3 11.7637 3782980 reverse MIT
CAATTTGGGATGTGTGTCCTGGGTTAGGGGTTGGGCAGTGTCCTGTATTAGCCTTTCCTTCTTTAGAAGCCTCTT

CCAGGATGTCACTGCTATACTACAC[A/
C]CCCCCACATTTTTAGCTGAGAAAGTAGCATGGCCATGGGTGTGTGGCAACAACTTCTGCCCTGCTCCTTCCTC
CTCTTTCCCCTATATACTGCCTTAGAC A/C 428 0.204 0.062
0.118 0.010 32.3% 310 93.9% 296 73.1% 52 87.5% 72
28.5% 130 26.7% 60 30.6% 36 42.9% 84
28.9% 38 94.9% 156 92.6% 68 93.1% 72 73.1% 52
87.5% 72
rs172705 APPLERA_RESEQUENCING 3 13.5417 4320033 forward MIT

CACTCCTGAGAAGAAACGAACTACAATTCCCATGAGGCGGTGGGGCCACGGGACCACAAGTCCCAGCATCCACCG
CGCGGCCCAGGACTGTCAGGGTAGT[A/
G]GGCGTTGCGTGAGGCGGGTAAATGTTCGCGGAAGCGGCAAAGACGACACGGCCTTGTGGGATGGCGGAGTTTA
AGGAGAAGCCTGAGGCCCCGACTGAGC A/G 1,088 0.141 0.007
0.163 0.006 40.1% 182 91.7% 156 86.2% 58 86.3% 80
NA 0 39.1% 64 46.7% 30 38.6% 88
35.0% 40 NA 0 93.6% 78 89.7% 78 86.2% 58
86.3% 80
rs1038639 APPLERA_RESEQUENCING 3 14.1187 4537667 forward MIT

TCTAGTGTAAAGAGTTCCTGGCAGGAGAATATGGCAATCTAAATGTTGCGCAGGAAAAGCCCTGGGATATCTGAT
TTTTGCATAGTGCTAAGAGTTTCAT[G/
T]TTCATACACTTGACAGAGCATTTATCTGTCTTCTTTACAGCCTGGTTGATGATCGTTGTGTTGTACAGCCAGA
AACCGGGGACCTTAACAATCCACCTAA G/T 659 0.186 0.001
0.224 0.004 93.3% 194 40.3% 154 43.1% 58 32.5% 80
NA 0 98.5% 66 89.5% 38 91.1% 90
90.5% 42 NA 0 36.8% 76 43.6% 78 43.1% 58
32.5% 80
rs3816835 APPLERA_RESEQUENCING 3 14.6202 4726802 forward MIT

TTGTTAAATTGATTTTTTGCGTCATATTTTAAGCTACATGCAGTGGTACCTTGAGTAGCATAAGGGCCACCTTGA
AAGAAGGGGTGGTGGGAAAGTTGAC[G/
T]TGTTTTCACTTTGTTTTCTGCATCAGAGGCTAATGTTTCAGGTAACCATTGGGCAATGTCTAATAATTTGAGA
TGCCAGACGGTACTAAAGTTACTCTAA G/T 1,325 0.147 0.009
0.125 0.175 92.3% 182 45.5% 154 56.9% 58 91.0% 78
NA 0 93.5% 62 96.7% 30 90.0% 90
91.7% 36 NA 0 42.3% 78 48.7% 76 56.9% 58
91.0% 78
CV25924532 APPLERA_RESEQUENCING 3 19.459 6764230 forward LGD

ATTGCTTCCTGCTTTCAGAGATAACAGATTTATATCTTCTCTCTTGTCCTTCTTTGACTCACGTCAGTAGAGAAA
TAGTCATCTTATCTTACTTCATCTT[C/
T]TGCGTCACTTCCTCCACTTCTGCCTCACTGTCCCTGAGGAGGGCACCTGTCCACCCTCCTATAATGATGATGG
ATTTCTCCTTGCAACTAGGTAAGGGCA C/T 681 0.194 0.068
0.064 0.000 2.5% 198 50.6% 154 20.4% 54 52.7% 74
NA 0 1.5% 66 2.5% 40 3.3% 92
4.8% 42 NA 0 43.6% 78 57.9% 76 20.4% 54

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        52.7%   74
rs342035        AB_ASSAYS_ON_DEMAND     3       19.583  6870971 reverse MIT

GCTAGTAGTAATTGTAAAGTAGTACAGTTCGCTTTATTGTAAGAATCAAACCACATCGCCCTTGCATTCTAAAGA
CCTGCTTATCTATGGGCAATGGAGG[C/
T]ATTTGAATATGCTGGTTGAACCTCATGTATTTCTTGAATCAACTCTGACCAATGTGTGAGGCTTATTCTGTTT
ATTGGAGACCTACTCTGTGTTAGGCAC     C/T             extended_map    0.111
0.002   0.209   0.000   64.3%   196     16.9%   154     12.1%   58
15.0%   80      NA      0       60.9%   64      52.5%   40      71.7%   92
        57.1%   42      NA      0       21.1%   76      12.8%   78
12.1%   58      15.0%   80
CV3006767       AB_ASSAYS_ON_DEMAND     3       19.7031 6929873 forward LGD

AAGCCCTCTCCTAATCATTTGATACTCAAAGAAATATATCTTGTAACTCCTATTGTGTCCATTTATCTTTTAATA
TATGTAGCTATATGTCTTTGCCAGA[C/
T]CCCCATTTAGCAATGGCTTCGTGTATTTATTCTGGAAGATTTCTGATATTATTTTCATTGGCTTTATCAGTGT
AAATGGGTAGCTAGATGATATCCAATC     C/T             457     0.186   0.035
0.109   0.019   9.3%    194     64.9%   148     42.6%   54      48.7%   80
        NA      0       12.1%   66      2.6%    38      10.0%   90
7.5%    40      NA      0       59.2%   76      70.8%   72      42.6%   54
        48.7%   80
rs1318267       AB_ASSAYS_ON_DEMAND     3       20.2058 7122208 forward MIT

TCTCTCCTATAGAAGTTTTTGTTTAAGCAGTGTTAGATCTTCATGAATTTTGGCATTTTTTCCTGCATACCTTAG
TAGACTAAGTTGATCAGACATCTAC[A/
G]GTGCTGGGGAACAATAGCTTCACTCTTAAATCTTTCTAAGACTAATATTGTATAAACTATTCCCTTTCTTACT
TATTTAAGAATTGTTGTGGGATGTTGG     A/G             1,506   0.119   0.030
0.067   0.011   30.1%   176     79.5%   146     60.7%   56      68.8%   80
        NA      0       38.7%   62      23.1%   26      26.1%   88
38.2%   34      NA      0       78.4%   74      80.6%   72      60.7%   56
        68.8%   80
rs870739        AB_ASSAYS_ON_DEMAND     3       20.4878 7230106 reverse MIT

CGTATATGAATGCCTATGATGTATTTGCGTAACTATGATCAAGTCAATTAACATCCCTGAGCTTCATTTTCATTC
AGTCTGTAACATTAAGAGATTGAAG[C/
T]GGGTGATCTCCAAGGGCCTTACTACCTCTTAAGTTGTATGATTTGCTACTCAATAATCTTATTATGAGATAAA
TGAGTGGTATACTCCTTAGATATTTGA     C/T             1,259   0.15    0.003
0.218   0.024   48.5%   196     0.7%    142     1.8%    56      7.9%    76
        NA      0       59.1%   66      32.5%   40      47.8%   90
42.5%   40      NA      0       1.4%    72      0.0%    70      1.8%    56
        7.9%    76
rs741553        TSCAF   3       25.1152 8830143 reverse MIT
GAGATCCAGAGGGTGGAAGTTCTTTCTTTCAGAGGAGCTGGTACTGATTATGTGACAGCCTTGAGTCCCCCCATC
AGAGCCCACTGGTGTCTTCTTCAGG[A/
G]TCTGGTCTCTGGTACTGAGATGATGATCACAATTATTAACAATGACATACTTGCTTTCAGTTTTTTTTTTTTT
TTTTTTTTTTTTTGATGGAGTCTCGCT     A/G             391     0.215   0.051
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0.147 0.029 31.5% 292 94.7% 226 76.9% 52 82.4% 74
34.0% 106 30.3% 66 25.0% 40 32.5% 80
32.5% 40 96.3% 108 91.4% 58 95.0% 60 76.9% 52
82.4% 74
rs369032 AB_ASSAYS_ON_DEMAND 3 25.373 8914203 forward LGD

ATCTGAGGGGTTGAGTATGAAGCTGGTGACAAGACTGGCATGTCTTCAGCACAGCAAGGCCAAATCTATGTAATA
TACTCATTAACCCCACCCTGAGAAC[A/
G]CCCAGTTGGACCAGATAAATAAATACCACATAGTATGATGCTACTAAAGGAATTTGGTCTTGACTGGTAGTCC
CTTCTAAGTTTGAATCTTTTCCTGATT A/G extended_map 0.279
0.018 0.225 0.119 97.5% 198 35.7% 154 51.7% 58
76.2% 80 NA 0 100.0% 66 95.0% 40 96.7% 92
97.6% 42 NA 0 42.3% 78 28.9% 76
51.7% 58 76.2% 80
rs52451 AB_ASSAYS_ON_DEMAND 3 26.0369 9130691 forward MIT
TACTTTATAAATATTTACTTTATTATCCCCCACCCACCAGGAGTCCCCCGAGGAGTGTGAGGCTGCCATGCTGGG
AGCCAGAGAGCGCAGTTCAGGGCCT[A/
G]GCTCTGGCACTATTTGGCAGCCCGGAGACAGAGTCATCCTGAAGGGGACTAATTCCATCCATTGAGTCCCCTG
GCCAAAGCAGGCTTTGCTTATCAGTTG A/G extended_map 0.044
0.116 0.009 0.043 18.1% 210 45.5% 198 8.3% 36
21.1% 38 15.7% 108 15.0% 40 6.2% 16 30.4% 46
11.5% 26 51.9% 108 39.6% 48 35.7% 42
8.3% 36 21.1% 38
rs2287494 AB_ASSAYS_ON_DEMAND 3 26.0892 9147763 forward LGD

GGCTCAAAATCAAGTCCTTCTTGCAGGAAATGGCCCTGGCAGAGCATCCTCTGCAGCCTGCCCTGATCTGGAACC
CTGAGGGCATTTGATTACCCATCTC[A/
G]TTATTTCTAATTCCCATCCAAGTTGCTGCTAGGAGCCTACGAGCTGGCACAGATTTGGGTTTTCTCCTTGAAG
ATTTCAAAGAGAGAAAAATAAAATAAA A/G 1,353 0.111 0.002
0.128 0.005 84.7% 196 40.3% 154 44.8% 58 48.7% 80
NA 0 86.4% 66 87.5% 40 82.2% 90
76.2% 42 NA 0 42.1% 76 38.5% 78 44.8% 58
48.7% 80
rs638107 TSCAF 3 28.2238 10473198 forward MIT
GTCACTAGTTATGTGACTTGGGCAGGGCTCTTAATCCTCTGTGCCTTGGTTGACCCTCCCCAACATGGAGACAAC
CCTACAGCCTACCTCACAGGGTTTT[C/
G]TAAGGATTGAGATAGAGCTAGCACAGTTTCTGGCAACGAGGAAACACTTGTTAAATGGTGACTCTCCTATGAA
AATTTAACTTACTCCCTGCCTCCAATC C/G 816 0.219 0.017
0.203 0.021 81.6% 310 16.9% 266 29.3% 58 31.2% 80
89.3% 112 87.9% 66 77.5% 40 69.6% 92
73.8% 42 15.2% 112 17.9% 78 18.4% 76 29.3% 58
31.2% 80
rs1899951 SEATTLE_SNPS 3 30.7227 12369840 forward MIT

ATTAAAACATTATATTTTGTACCAATAATTTAACCCTTGTCTTATAGGGTCTCTGGCTACTACTTCTTCATAAGC
ACTGTTTCTCTGTTAAAAATGTGAG[C/

T]TCCTAAAGGCCCAAGACCTATGATTGTTACTCCTATTGCATTTTGTAAATGACCTTTAAATAATTACTCCACC
TCTTCCAAAACAGACAGACTTAAAAAT C/T extended_map 0.099
0.005 0.207 0.039 64.1% 184 19.2% 156 12.1% 58
3.7% 80 NA 0 62.5% 64 62.5% 32 65.9% 88
55.0% 40 NA 0 19.2% 78 19.2% 78
12.1% 58 3.7% 80
rs2276747 AB_ASSAYS_ON_DEMAND 3 32.303 13624763
forward LGD
CAACGTCTGCAGGTAGGGTGGGCTCCCTGGAGCAGGCGGAGCTGCCCATTTGCCTTCTCCAGAACCCTGCTTGCC
TAGGACCCCAGGCTCCAGGCAGCCC[A/
G]GAGAGAGTGCACCTTCACATGCCTCTGGGGCATGAGGGTGATTGGGTGTGGCTGCCGTGCGCCATCTGGCCAG
GCTTTCTCCAGGGGTGGAAAGTCCAAG A/G extended_map 0.118
0.026 0.321 0.000 32.1% 196 81.2% 154 94.8% 58
81.2% 80 NA 0 24.2% 66 32.5% 40 37.8% 90
47.6% 42 NA 0 80.8% 78 81.6% 76
94.8% 58 81.2% 80
rs4596126 APPLERA_RESEQUENCING 3 32.3248 13634898
forward LGD
GATGGCCAGGGCAGGGGCTATGGGAAGGGCTGATCTTGCCAGGGGGTGTGGCATTCCTGGGGTGCACACTGTGGG
GTCCTTCACTTCCTGTTACCCCACA[A/
C]GTTGGAACCCACAGAAGCCTGAAGCTTCCAGTGATGGGGGATTTGTGAGGCAGGAAAAATAGAAGCTTTCTTC
CTGGGGCTCCATCTGCAGGGACCTGGC A/C 158 0.304 0.039
0.639 0.000 93.4% 198 22.4% 156 5.2% 58 22.5% 80
NA 0 97.0% 66 97.5% 40 89.1% 92
85.7% 42 NA 0 21.8% 78 23.1% 78 5.2% 58
22.5% 80
rs545114 TSCAF 3 34.4552 15057200 forward MIT
AGGACAGTCCCAGTCATTTCTCTGGTGTGACTGGGGGTGTCTTATGGCTGGCTGGTCCTGCTGGTAGACAAGAGC
CTGCTTCTCCTTTTGGCGCACTTCT[A/
G]TTGCCCAGATGTGGCTTTTACAAAAGCAAGATCCATTTTCTACTGGAATCATTGAAGACTTCATCATGAATCT
AGAATAACTTCAGCCTCAATACATAGA A/G 1,986 0.078 0.014
0.175 0.063 2.8% 290 28.2% 252 41.1% 56 57.7% 78
0.0% 102 5.0% 60 0.0% 38 5.6% 90
0.0% 32 32.4% 108 15.7% 70 33.8% 74 41.1% 56
57.7% 78
CV2965619 AB_ASSAYS_ON_DEMAND 3 34.8046 15256030
forward LGD
AGACATGCCTGGTATTTACTAAGCATTTACCTTTACATTCTGTTCCATAAATGAGTGGAAAATCTGAAAAGGGAT
GATAGTGTTACCATTTCAAGGAGTT[A/
G]ATGATTACATTGGGGAGACAAGATGACTACATTTGTAGGAAACAGTATAAGATAGGATACTATTTGTTTTAAA
CTAATGTAATACAGATTGCTAGCACTA A/G 652 0.223 0.003
0.261 0.024 11.7% 196 75.0% 156 69.6% 56 57.5% 80
NA 0 7.6% 66 7.5% 40 16.7% 90
16.7% 42 NA 0 76.9% 78 73.1% 78 69.6% 56
57.5% 80
rs1287641 AB_ASSAYS_ON_DEMAND 3 34.9062 15313865

reverse MIT
TTTCTATCAAATGTTGAGTATCTGGTGAATCTGCTGCCTTGTAATAAAAAAAAGATCACCACCACAAAGAACCTG
TGGGTAGAAGAGGAAACAGGCCTCT[C/
G]CTGGCTGGGAGGGGGCTATGGAAGATAGAGAGATTGTGCCAGGTGGAAGAGTGAGCCCAGGTAGGTTGAGTAC
ATAGTGAGTTATTTGTGAGGGCAGAAT C/G extended_map 0.224
0.004 0.224 0.096 2.6% 196 55.8% 154 48.3% 58
20.0% 80 NA 0 3.0% 66 0.0% 38 3.3% 92
7.1% 42 NA 0 60.5% 76 51.3% 78
48.3% 58 20.0% 80
rs7648958 AB_ASSAYS_ON_DEMAND 3 35.4021 15596147
forward LGD
CTTTCCAAATTTAGAGAAAGACAATTTAGAGAAAGACATAAATTTAAATATTCAAGATTTGAGAATCCCAAAAGG
CTAAATTAAAATAAACCATTTCCAG[A/
G]CACATCATACTTAAACTGCTGAAAACAAAAGACAAAGGAAAATCTTGGGAACAGCCATGGAAAAACAACATAT
TACATACAGAGCAACAATAATTTGAAT A/G 1,293 0.157 0.174
0.007 0.130 32.1% 196 87.8% 156 41.4% 58 48.7% 80
NA 0 47.0% 66 30.0% 40 22.2% 90
45.0% 40 NA 0 87.2% 78 88.5% 78 41.4% 58
48.7% 80
rs2455833 APPLERA_RESEQUENCING 3 35.6335 15727834
forward MIT
GCTGCATGTAGACAAGTCCTGCCAAAATCATCTGGGGTATCTATATCAAATCCTACAAGAATGAATACATCTTAT
TTATAACAGACATATTATTTTACAC[C/
T]AAAGAATTGTGTCATGAAACATCAAGAATCACATCCTCCCCTCCAATCCCAAACAAAACTATGGGTTCTTAAG
TGCTAGAGTGCCTGTTTAAAAGGCAAT C/T 1,139 0.162 0.011
0.313 0.093 91.9% 198 41.9% 148 29.6% 54 77.5% 80
NA 0 95.5% 66 90.0% 40 90.2% 92
85.7% 42 NA 0 44.4% 72 39.5% 76 29.6% 54
77.5% 80
CV25608380 APPLERA_RESEQUENCING 3 36.2073 16212376
forward LGD
TGCAGCAGCACCCTCAGGACAGCCTGCCCACAGCCAGCGTCATCCTCTGTTTCCATGATGAGGCCTGGTCCACTC
TCCTGCGGACTGTACACAGCATCCT[C/
T]GACACAGTGCCCAGGGCCTTCCTGAAGGAGATCATCCTCGTGGACGACCTCAGCCAGCAAGGTAGCCACGGCT
TTCCTCCAGGCTCGTCTGGGTGAGCCT C/T 1,844 0.109 0.002
0.169 0.001 36.4% 198 0.0% 154 0.0% 58 0.0% 80
NA 0 34.8% 66 37.5% 40 37.0% 92
42.9% 42 NA 0 0.0% 78 0.0% 76 0.0% 58
0.0% 80
CV25474733 APPLERA_RESEQUENCING 3 38.6457 18366307
forward LGD
CTCTGCTATCGTGGAGTTCCACACAAAGCCGTCTCCAATCAGGAAAAATGTGGTCCCGGATCCTACATATAGCTT
CTTTGATAGGGATGAAGATTTAGAA[A/
T]GAAAAGGTAGGCCGGCGAAATGGCCGACAGCATTTACAAAAAAATCAAAATGATATGACTAGGAAGGGATGAA
TTAAGACAGCTTTGGGGGGCTACTGCA A/T 1,426 0.112 0.009
0.242 0.003 20.2% 198 66.7% 156 77.6% 58 72.5% 80

NA 0 10.6% 66 12.5% 40 30.4% 92
7.1% 42 NA 0 65.4% 78 67.9% 78 77.6% 58
72.5% 80
CV261203 AB_ASSAYS_ON_DEMAND 3 39.7548 19242754
forward LGD
GAGAATACAAATTTTGTTGAGCAGTGCTTCAACTGCCAGCAGGATTGGCAAAACAGCTTTAGGCAAAAGCAGTGT
CTACTACAGTTAGCTATTTTATATG[A/
T]TGTCCACACATATTTGGTATAATTATATATGTTTGTATGTGTATACATGTGGATAAAATTTTCCATTCTGAGC
CCTATGAAAGGTAGTTTTGATCATTAG A/T 1,779 0.129 0.000
0.215 0.000 56.7% 194 99.3% 152 100.0% 58 100.0% 80
NA 0 64.1% 64 71.1% 38 45.7% 92
54.8% 42 NA 0 100.0% 74 98.7% 78 100.0% 58
100.0% 80
CV1554340 AB_ASSAYS_ON_DEMAND 3 40.9435 20182101
forward LGD
AATTATTAAAAAACTAGTACAAAATTTCCCCATGAAAACATAGAAAGATAAGATGGTTTTGGTGTCAAGTTCACC
AAACCCTCAACAGGTGCAATTTGTT[C/
T]CCACAGAGCAAAAAAAGAAAACATTGCTAGTATAGCCTTGATACCGAAAATAGGTGTATACAAGAAATTATAT
AGGCAAATTTTACTCATGATCATAGAT C/T 1,959 0.08 0.143
0.004 0.098 6.1% 198 36.5% 156 1.7% 58 6.2% 80
NA 0 9.1% 66 0.0% 40 6.5% 92
2.4% 42 NA 0 32.1% 78 41.0% 78 1.7% 58
6.2% 80
rs975302 RANDOM 3 42.7155 21582336 forward MIT
TGAGATAAAAGGACTTATAAGTAAGTCTTCATAATAGATTGAGATAGATCAGAAATTATTTGATACACTCAAAAG
TGCTCAGAATGTGTCAGAAATGACT[C/
G]TCTAATATTCACCTTCTGTGACATATTATAGTTCATTAATTCCCCTAAACAAGCCATTGATCAATTTCATCTC
CTTTTGTGTTTCTCAGGTCACTGGAAT C/G 1,555 0.109 0.047
0.032 0.072 86.5% 296 43.5% 216 69.6% 46 75.0% 72
89.3% 112 80.6% 62 87.5% 40 86.6% 82
85.0% 40 41.0% 100 44.8% 58 46.6% 58 69.6% 46
75.0% 72
rs1494225 TSCAF 3 43.5015 22441807 forward MIT
TACCTGAGATATAAAACCCAAACATCACCTCTGCTTCCAACAAATATATGGATTAACAAGAACTAGACTTATGCT
GTCATGTAAAACAACCAAGATAAAA[C/
T]ACATAAAGCAATGATTTTCAAGACACTGGAACTCAGGTAACAAAGGACAGTGATCCCTGAGAAATTGAAAACA
AGATGCGCCCTGTAATTGTCCTGGTTT C/T 836 0.279 0.008
0.445 0.020 97.9% 286 37.5% 216 26.9% 52 54.5% 66
100.0% 102 100.0% 64 100.0% 40 92.5% 80
97.5% 40 32.7% 104 41.1% 56 42.9% 56 26.9% 52
54.5% 66
rs1486335 TSCAF 3 43.8778 22918621 forward MIT
ATTCAATAAATTTAACCTCAGAACTAAGATTAAAATAAATGTAGGGATTACAAGGACATCAGATTGTAAGTATGT
ACATACTCTGTGCCAAGCAATGACC[C/
T]TCATAGCTGTATTCCCTAGAGAAACACGTGTGCAAGAAGACATCTTTAAAAAATTTATTGCAGCATTGTTTAT
AATAGAAAAAAATTCCACAAAAATTGA C/T 1,666 0.171 0.009

0.187 0.007 33.6% 286 90.8% 240 84.0% 50 85.0% 80
29.3% 92 39.1% 64 22.5% 40 38.9% 90
45.2% 42 88.3% 94 93.1% 72 91.9% 74 84.0% 50
85.0% 80
rs1386009 AB_ASSAYS_ON_DEMAND 3 43.8823 22921475
forward MIT
AGTCTTTAGTACTATAACATTTATGTCAAAAATAACTACAACTTTGAAAAGTCCTTCCTCTGGCCTGCTAAGAAG
CTCACTGAAGACCCCAGCCTGAAGT[C/
T]TGTAGCCATGCCTGCTCTTGCCCCACCACAGGTTTTCCTGGACCCAGCTTTGGCAGTGCAATATGAGCATGAT
TTAGAGGTTGCTCAGACAACTGCTCTC C/T extended_map 0.168
0.024 0.143 0.011 34.8% 198 91.7% 156 79.3% 58
83.8% 80 NA 0 37.9% 66 22.5% 40 38.0% 92
45.2% 42 NA 0 93.6% 78 89.7% 78
79.3% 58 83.8% 80
CV1241086 AB_ASSAYS_ON_DEMAND 3 44.3486 23217015
forward LGD
TCTACCAGTATAATGCTTCTGCTCAAATTCAGCCCAGTTCCCCTGAGAGAGGTCTTTTCTATCACCCATCCAGTC
AAACTGGAAAACTAACTGTGGCTCT[A/
G]CTTACTCACGAAGTTGGCAGTAACAACGTTTTAAGAAGGACCCTTCAAAAAACATTCCAATTTGCCAGTTGCA
GGGGGAAAAAACGTAGGCTCTAAATTA A/G 1,877 0.166 0.000
0.274 0.000 51.5% 198 0.6% 156 0.0% 58 0.0% 80
NA 0 51.5% 66 62.5% 40 46.7% 92
50.0% 42 NA 0 0.0% 78 1.3% 78 0.0% 58
0.0% 80
rs1349265 AB_ASSAYS_ON_DEMAND 3 45.7959 24134352
forward LGD
TTAGCTTTTTGTTACTTGTCATAGAAAGAATCTCAATTAACATGTGTTCAGGGCAACAGAGATTGAGATATATGT
TGGCAGCTGATGTTAACATAATTCC[A/
G]TTAGTAATATTCCTGAATAATTTGAGATGAGAAGATGAATGTTGTCCTTGAGCTGCAAAACTTCACCTCTCTC
CTCCCTTCATCTTTGTGGCCCCTTCCA A/G 1,204 0.231 0.071
0.095 0.000 7.1% 198 67.9% 156 36.2% 58 67.5% 80
NA 0 6.1% 66 2.5% 40 9.8% 92
7.1% 42 NA 0 67.9% 78 67.9% 78 36.2% 58
67.5% 80
rs920137 TSCAF 3 47.8001 25225161 forward MIT
TTCTTTTTTTTTCTAGAAAAGAGAAAACATCTCACTGCACCATACATTTGGCCCAGCCCTCTGACCTGACAATGC
TGTCTCCTTTTGTTATTTGTTTTAC[A/
G]GAAGAAATGTATTTCCTTTCTTAAAGCAATGAGATCTCATTGAGCCCCTCACATGTTGGCTGCCAAGTTCCCA
GCTGCTGAGCTTGTACCTTTTGTAACT A/G 1,999 0.112 0.041
0.342 0.015 18.3% 290 64.0% 258 85.7% 56 77.5% 80
27.1% 96 14.1% 64 18.4% 38 12.0% 92
31.0% 42 65.4% 104 61.8% 76 64.1% 78 85.7% 56
77.5% 80
rs1369603 TSCAF 3 48.31 25530071 forward MIT
TGCCTCCTCTCCCACTTTGCACCATATGAGTGATAGCATGTTACCCCTTTCATGACATGACATCCCAATGCTGTT
TTTTCCATGGTGGATGTAAACAGAT[G/

T]AAGCTTGTAAATAGGTCCTAACAGAGATTTACTTTCTCTCAAAACTACACACACACACACACACACACACATT
TCATCAAATCGATCATTTCTTAAGGTG G/T 90 0.344 0.114
0.143 0.051 6.1% 310 81.3% 252 42.9% 56 56.8% 74
1.7% 116 4.7% 64 10.0% 40 11.1% 90
15.0% 40 78.2% 110 86.8% 68 81.1% 74 42.9% 56
56.8% 74
rs2932016 AB_ASSAYS_ON_DEMAND 3 48.4141 25736924
forward MIT
CCATGGCATCTTTTACCCTAGAAGACAGGTATTATTTGAATGCAGATGTCCCCAAAAAGTGCAATTCTAAAGGAC
TGCATTCTAACCAAATTTTGGTAAA[A/
T]CATCTTCTTTTATATTAAGAAGTTCAACTCTTTAAAATGAGTTTTATGACTAATCCTGCTGAAAATGAAGAAT
CCTTTTAAATGCAACTACTCTTTAATT A/T extended_map 0.312
0.020 0.284 0.007 91.8% 196 18.3% 142 32.7% 52
10.8% 74 NA 0 95.3% 64 97.5% 40 87.0% 92
88.1% 42 NA 0 10.3% 68 25.7% 74
32.7% 52 10.8% 74
rs879912 AB_ASSAYS_ON_DEMAND 3 48.4161 25740898
forward MIT
ATTTCAAGGAATCTCAAATTGTTGCTGGTAAACCGGTACTTGCAATGAGTCTTGTTTTTGGTTATTCCATTTTAT
GTTGAAAATCAAACATGAATCCACT[C/
T]GTAGTTCCCACTGTAAATATTTCTGTGTATACTTCCAATTTATTCCATTTGTAGAATTTGGATAAGAATTTTT
AAGATTTCCATGTATACTTCCAATTTA C/T extended_map 0.08
0.009 0.069 0.010 59.4% 278 19.3% 254 28.0% 50
9.7% 62 54.9% 102 66.1% 56 73.5% 34 54.7% 86
44.7% 38 19.8% 106 10.8% 74 27.0% 74
28.0% 50 9.7% 62
rs4681073 AB_ASSAYS_ON_DEMAND 3 48.4306 25769737
forward LGD
AAGAAGAAACATTACACGCAAAGAAAAAATTATTTGATGTCAGATATTTCATTGGAAACAATGAAGCAATTTTTT
TTGAAAATCTGAGGGGAAATGATTA[A/
G]GAACACAGAATTCATTCCCAGTTAAACTAATCATGTACAGGGGCAAAATAAATATATTTTCTGATATGTAACA
ATACAGAAAGTATATCACTCTCAAATC A/G 369 0.336 0.006
0.369 0.017 94.4% 196 20.1% 154 27.6% 58 8.7% 80
NA 0 98.5% 66 97.5% 40 90.0% 90
90.0% 40 NA 0 11.5% 78 28.9% 76 27.6% 58
8.7% 80
CV1175614 AB_ASSAYS_ON_DEMAND 3 49.1063 26719508
forward LGD
GGCCCTGATGAACTCTTCCTGTAGTAGATGGTTGAGAATGGAAATGGAGAACTAAAGTCCATGGCAGAACTCAGT
CCTAAAGATGTGAATGAAGAAGTTA[C/
T]TATCTCCAAACATGATCCCAAAGACCAGCAGTGGAAAAATTACTTATGCAATTTATTCACTTGAATTAGCCCT
GTCCCAACTCTCTTTTCCTAGTTATTT C/T extended_map 0.181
0.008 0.200 0.019 26.8% 198 86.7% 150 79.3% 58
73.8% 80 NA 0 28.8% 66 22.5% 40 27.2% 92
37.5% 40 NA 0 89.5% 76 83.8% 74
79.3% 58 73.8% 80

rs6763642 APPLERA_RESEQUENCING 3 49.1123 26724618
forward LGD
GTGAGTTTGGTAACATTTGGAGTCATTTCCCTTTGTATTTATCCATCTGGGATCTTCATAAAAGACAAGTTTTCA
GAAAGTCATTAGTTGCTCATGCAGA[A/
G]AGTTGTTTGTTGTCCACTGCTGTAAGAGGACTGAATGCTCTTCTTGTTTCTTAGATCCTGGGAGGGAATCTTC
TAAGTCAGGCATGGGTTCCCTACAAAA A/G 1,400 0.219 0.033
0.169 0.071 77.0% 196 11.7% 154 28.6% 56 38.8% 80
NA 0 77.3% 66 77.5% 40 76.7% 90
72.5% 40 NA 0 9.2% 76 14.1% 78 28.6% 56
38.8% 80
rs2197896 AB_ASSAYS_ON_DEMAND 3 54.2225 30007495
forward LGD
TTTCCTCTGAGTACTTATTGTGACTTCATGTAGCTGAGGGTATCTCTACTTAAGCCAAATAGAAGAGGGGTACTT
ACAGCCTATCTAGAGAGGGCCCTTC[A/
G]CTGAAGCAAGTAAGGCTTTTATGTTCTTATTTGCCTCCTTAGGGTGTTGTTGCTGATACCTCTCCCCAGACAG
TGGCACCTTCATCCCAGGACACCAGTG A/G 208 0.295 0.078
0.208 0.113 74.2% 194 1.3% 152 20.7% 58 27.5% 80
NA 0 74.2% 66 72.5% 40 75.0% 88
90.0% 40 NA 0 1.3% 76 1.3% 76 20.7% 58
27.5% 80
rs4348027 AB_ASSAYS_ON_DEMAND 3 56.2201 31218570
forward LGD
ATGTCCCTAAAATGACCTGCTAGACATACTTTGCCTTCAGTTTGGATTCTGCCTCAACTTTTGTGCTTAGGGTTT
CTTAACTTTCCATCTCTTCTATATA[A/
C]TCTTGTCAAACTAGTCTTTTTAAGAGTCCACTTTCCCACTTATCATTGGCTATAACCTGCAAACTCCTTCAGG
GCAGGGCCGTATCCAACTCATCTCTGT A/C 710 0.21 0.033
0.120 0.000 97.9% 192 48.0% 152 69.6% 56 50.0% 80
NA 0 100.0% 66 97.5% 40 96.5% 86
100.0% 42 NA 0 46.1% 76 50.0% 76 69.6% 56
50.0% 80
CV276604 AB_ASSAYS_ON_DEMAND 3 56.9141 31705113
forward LGD
CTTCATAACCTTGGGAGCCATCTTCGTATTTTATCCTTAGATTGGCAAACACACCCAGTGCAAACAAGCAAGCAG
AGAGGCCTCCACCACCGCAAAGGTT[C/
T]ATTTATGTCCTATTTTGAGAAAACCAGGAGAAATACACAAAAATCCAATTTTACAAAATAAAGCGCAGACAAT
TCACACTGCAAAAGGTTTCTTGACTTA C/T extended_map 0.196
0.114 0.040 0.112 11.6% 198 70.5% 146 30.4% 56
30.8% 78 NA 0 12.1% 66 2.5% 40 15.2% 92
9.5% 42 NA 0 64.7% 68 75.6% 78
30.4% 56 30.8% 78
CV431830 AB_ASSAYS_ON_DEMAND 3 57.0197 31779138
forward LGD
TTCAGTAGTCAGGGGACAAGGTTTCATATTTTCCTTGTATACCTCCCAGGGTTTAGTTGATCATGGTCACAGAGA
AAGTTTAGTAACAAAGAAGTGAAAC[A/
C]ACCCACACTCATGCAAGGAGAAGGGGATTTGTTGCATGGATACAGGAAAGAGTGCCCAGAAACTACTTGAAAG
AGCTACTCTTTCTTTCCTTCAGAGATA A/C 996 0.212 0.001

0.262 0.023 88.8% 196 27.6% 156 31.0% 58 12.5% 80
NA 0 87.9% 66 85.0% 40 91.1% 90
92.5% 40 NA 0 25.6% 78 29.5% 78 31.0% 58
12.5% 80
rs1599770 AB_ASSAYS_ON_DEMAND 3 58.6073 32896142
forward LGD
TCCTCCTGCCTCTGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTACCCGGCCCCAATTTTTAATAGC
AATTCTTTTTCACCCTGACAGCAGA[A/
C]GTTGGTTTCAATTTCAGATCTTGCCACTCTCAGAATTAGCTGGATGTAACCTCACCATCTTATTCTGGGTTCT
TGTAACCACAGCTTTCTTTCCTTTGTT A/C extended_map 0.156
0.029 0.357 0.027 3.5% 198 46.7% 152 67.2% 58
66.2% 80 NA 0 3.0% 66 2.5% 40 4.3% 92
2.4% 42 NA 0 35.5% 76 57.9% 76
67.2% 58 66.2% 80
CV25985891 APPLERA_RESEQUENCING 3 58.871 33081958
forward LGD
GCAAGCTGAGGTATGTGAGTGACCACCAAGAGGAGAGCCCATGCCCTGACCCTGGCCTGTTTCTCTGCCTGGGCA
CCTTGTCAAGGTAAAAGACACCTGT[G/
T]CTGGGTACAGTCCCAGGCCCCATGCTCTCTGGAATGCAGGTCTGCTTTAATTCCCTTTGCCCCAGAGCTGCTG
CCTGCCAGCTCACACACACCAGGTAGA G/T 1,156 0.222 0.010
0.196 0.000 3.6% 196 58.4% 154 46.6% 58 60.3% 78
NA 0 3.0% 66 0.0% 38 5.4% 92
0.0% 42 NA 0 62.8% 78 53.9% 76 46.6% 58
60.3% 78
CV11577300 AB_ASSAYS_ON_DEMAND 3 58.9406 33131034
forward LGD
CTGCCTCTGTGTCATGGCTGATTTAGGGTGGCTCATGCTGGTGGCTGTATCTCAGGAACCCAAGGCAAGGTGGTT
CCCTCCATCCCTACCACCTTCTCCA[A/
G]AATCTGCCTGGGGTCTGTCAGAGGTTTGGTAGCCAAGATGTGTCTCCATGTTCCAGCTGCAGAGCCTGAGTTG
AAGTAAATAAAATCACTCTTTTCTCTT A/G extended_map 0.215
0.011 0.187 0.031 5.1% 198 61.0% 154 48.3% 58
40.0% 80 NA 0 3.0% 66 2.5% 40 7.6% 92
2.4% 42 NA 0 65.4% 78 56.6% 76
48.3% 58 40.0% 80
rs1016528 TSCAF 3 61.0706 35929704 reverse MIT
AAATGAAGGAAGATTTATGTCAGGATGTTCTGATGACATAATATACGCCCAGGAGAGATGCAAACTGCAAGGTGG
GAAAGGAGTGCATGAAGTTAAATGA[A/
G]GAGCAGGCTGCTGACATTCTCAGAGCTTTGTAAGCCAAATTACAACTTCTTGAACTCACCTCGTTAAGTTTAT
ATGTCAATCTTTTTTCTCCTGAATGTA A/G 595 0.224 0.104
0.062 0.096 8.5% 330 69.2% 302 31.0% 58 32.5% 80
5.2% 134 7.6% 66 15.0% 40 11.1% 90
7.1% 42 67.6% 148 73.7% 76 67.9% 78 31.0% 58
32.5% 80
rs1046048 APPLERA_RESEQUENCING 3 63.5215 38485367
forward MIT
TTTGTGTGACCATCGAGGAGTGCTGGGACCATGATGCAGAGGCTCGCTTGTCCGCGGGCTGTGTGGAGGAGCGGG

TGTCCCTGATTCGGAGGTCGGTCAA[C/
T]GGCACTACCTCGGACTGTCTCGTTTCCCTGGTGACCTCTGTCACCAATGTGGACCTGCCCCCTAAAGAGTCAA
GCATCTAAGCCCAGGACATGAGTGTCT C/T extended_map 0.101
0.052 0.023 0.085 11.7% 180 52.0% 148 25.0% 56
18.8% 80 NA 0 11.3% 62 3.6% 28 14.4% 90
5.0% 40 NA 0 56.6% 76 47.2% 72
25.0% 56 18.8% 80
rs7642737 AB_ASSAYS_ON_DEMAND 3 64.35 38993080
forward LGD
TTCAAGGCAGTAAAGGAGATGAGAAGGAAGGGAAGTACCTTCCAAGCAGGAGACACTGCAGGCACAAATGCACAG
AGTGGGGACTCTGCTCCCCATTCAG[C/
T]GGCCAATCACATCTTTCTTCCGTCTCCTGGGGGAAAAAATAATCATGTATATGGTTTTTTGTGCTTAGGAAAT
TTCCAGGATGATATGGAAAAATAAATG C/T extended_map 0.181
0.000 0.242 0.000 11.7% 196 68.2% 154 67.2% 58
68.8% 80 NA 0 7.6% 66 7.5% 40 16.7% 90
9.5% 42 NA 0 67.1% 76 69.2% 78
67.2% 58 68.8% 80
rs4234140 AB_ASSAYS_ON_DEMAND 3 64.35 39101707
forward LGD
TAGGAAAGAAGAAGAAATGGGTAGGGGACAATCAGGACAGTGCCTCAAGGTGAAGAATTTTGCAGTCCAACCTAA
CCACCAGTCCCCACTTGTCCCAGGA[A/
G]CACTGCTCTGCCTAAAGGAAGGAAATGGCCTTAATAAACCACCCCTTCTTCTATTGGTGATAGGAAGTCAGGC
CTGAGGGGCCTGGCCTGGCCTCCCTGC A/G 256 0.26 0.027
0.210 0.003 88.9% 198 20.5% 156 37.9% 58 25.6% 78
NA 0 90.9% 66 92.5% 40 85.9% 92
83.3% 42 NA 0 15.4% 78 25.6% 78 37.9% 58
25.6% 78
rs941320 AB_ASSAYS_ON_DEMAND 3 64.6151 39728323
reverse MIT
TGCTGTCCCCTCTCTTCTTCCCAAGGAAAAGGTCTCAAGATTCCCAGGTGGGTGGCCTCCATGAGCCTCAGCAAA
GCCAGGCAGAAGCACATTCCCCAAG[A/
G]CTCATTCCCCGTTTCTGGCTATAATGATGGAGCAGGTAAAGGCAGCTGGAGGCCTGACCCCTGTGCTCTGTCT
GCAGCTGAGTCACATGTCAGCAAATGG A/G 1,186 0.18 0.053
0.497 0.001 79.2% 192 19.7% 142 1.8% 56 22.5% 80
NA 0 80.3% 66 76.3% 38 79.5% 88
64.3% 42 NA 0 19.7% 66 19.7% 76 1.8% 56
22.5% 80
rs994439 AB_ASSAYS_ON_DEMAND 3 65.8331 41676909
forward LGD
AGTCAGAGAGAGTCAATGCATGACACGGATTTGACACATCATTTCCAGCTTGAAGACAGAGGGATTCTGTAAGAA
GAAATACAGGTACCTTAACGCACAT[A/
G]AGACAGCAAAGATATGGGTACTGTAACCCTACAAATGCACCATGGGTTGAGTAATTGCCCCCCAAAAGGTATG
TCCAAGTCATAACACCCAAAACACATC A/G extended_map 0.097
0.078 0.008 0.001 9.2% 196 46.7% 152 15.5% 58
51.2% 80 NA 0 4.5% 66 17.5% 40 8.9% 90
4.8% 42 NA 0 44.9% 78 48.6% 74

15.5%	58	51.2%	80
CV1448667	AB_ASSAYS_ON_DEMAND	3	66.2137	42039703
forward	LGD
TTTACAGTCTGGTACTATAGACAGACATTAATGCAATTTCACAAACAAATGTCAAATTGTAACTCTGACAGTTTC
TGTGGCAGAGACCACTGTTCTCAGA[G/
T]GACTAACATAAGAGCTTTGGCTTAGCCAGGAGTTTGGGAGAACTTGCCAAGGGCTAAAGAAAAGGTACCCAGG
TGGAGGAAGTCTCGTGACCTGTGTCTG	G/T	954	0.254	0.001
0.371	0.028	4.5%	198	66.0%	156	70.7%	58	83.8%	80
	NA	0	3.0%	66	2.5%	40	6.5%	92
0.0%	40	NA	0	67.9%	78	64.1%	78	70.7%	58
	83.8%	80
rs11063	AB_ASSAYS_ON_DEMAND	3	69.0385	45084761	forward	MIT

TATCTGCAATGAATAAATTATTTCCAGTGAAGCACTGCAGATCCACACACACCAGTCTGCTAACCTTTACCAAGG
CCATGTCCGGTGGGCTTGTGCTTGT[C/
T]CCAGTTGACTCTTCCTTGAGACCTTTCCCTTCTGTGCAATGACCACAGCATTAGAGACCAGTCCTGCATGCGC
TGGCCTTCCTCGTAGGCATGGCAGACC	C/T	2,096	0.075	0.001
0.130	0.010	62.8%	196	23.4%	154	20.4%	54	13.8%	80
	NA	0	65.2%	66	75.0%	40	55.6%	90
76.2%	42	NA	0	22.4%	76	24.4%	78	20.4%	54
	13.8%	80
CV11328461	APPLERA_RESEQUENCING	3	69.508	45977056
forward	LGD
CCCCACAGGTGATTCTGCTGAGAGGCCAAGGCTGTAACCTGTCTGTCCAGTAGTGCTGGCACCAAGGACATGCCA
TCCACCAGGGAAAATGCCTGGTATC[A/
G]GGAGTTAAGAGAGTAACGGGTGAGGCCTAGAGAAAAGCATTAAGCCCCTCTGAGCCTCACTTACCTATAAAAA
CACAGTGCTACTTGCCCACATGTGTCA	A/G	2,035	0.106	0.034
0.293	0.021	94.4%	196	58.4%	154	36.2%	58	41.2%	80
	NA	0	93.9%	66	95.0%	40	94.4%	90
88.1%	42	NA	0	57.7%	78	59.2%	76	36.2%	58
	41.2%	80
rs1869868	AB_ASSAYS_ON_DEMAND	3	69.9702	46855580
forward	MIT
GGAGGATGCTGAGTAAGGAGAAAGCTCACCTCTGCAGCTGAGTCCCACCTTTAGGTGCCTCCACCCCATCCATTC
TGATGTCTGCACCCACAGCCAGTGA[A/
C]CCAAACCCAGGAACATGTGGTCAGCAGAGCCACATATGAGAGGTAAATGGCCCCAGGGTAGCAACATGGCCAT
GGCTGGGCCAGAGGCACATTCTAAGTG	A/C	25	0.428	0.001
0.644	0.038	92.7%	178	6.8%	132	4.0%	50	23.0%	74
	NA	0	90.6%	64	92.1%	38	94.7%	76
92.1%	38	NA	0	8.3%	60	5.6%	72	4.0%	50
	23.0%	74
rs7652762	APPLERA_RESEQUENCING	3	70.5992	48417361
forward	LGD
CAGCATTCTCGAGACCACGGTCACCCGGATTCTTGGCGTCTGTACCACGTCCAGATTCTGGCCACGGACGCATAT
CTCACGTCCTCCACTGAAACAGACC[A/
G]TGAGCTTACGTAACGTAAGATGGCTTATGTTACCTGGACCTAAAGCACAGCCCAGTCCCGGCTAGGTCAGCTC

AGCCCCAGCCCCAAACCACACGACCCC A/G extended_map 0.105
0.004 0.148 0.000 62.6% 198 99.4% 154 98.3% 58
100.0% 80 NA 0 62.1% 66 57.5% 40 65.2% 92
45.2% 42 NA 0 98.7% 78 100.0% 76
98.3% 58 100.0% 80
rs4075082 AB_ASSAYS_ON_DEMAND 3 70.6176 48515674
forward LGD
AACATGGGGGTGGAAGCTGAACGAAGGATCCCAACACAGACCTGCGAGGAAGACCACAGCACCAGGTGTCGACAG
AGCAGGCCAGAAAAAAAACACTTCA[C/
G]AAATGGAGAACTGGCTACCAAATACAACCTGAGATTATTTTTTAAAAAGTATTTATTGCAAAGAATGCTGGAC
ACAGTGTTGCATGTGGCTGAGATTCAA C/G 1,206 0.242 0.015
0.298 0.070 34.7% 196 99.4% 154 94.8% 58 82.5% 80
NA 0 31.2% 64 42.5% 40 33.7% 92
23.8% 42 NA 0 98.7% 78 100.0% 76 94.8% 58
82.5% 80
rs6792525 AB_ASSAYS_ON_DEMAND 3 70.6243 48551109
forward LGD
ATCACAACAGCTCTGCTTACCATAGCAAAACACTGGGAAATTCCAGCCATAAGAAATTGCCAACTGAGGCACAAC
AAGGAGGGAACACATTGCAGCTCTC[A/
G]AAACAGAGCACGTGGACTAAGCGGGCTGGGTGCACGGCTGCACCTGTGGCTCTGAGCCCACAGGACCCTGACA
CTGAGCAAACAGGATGGTAGAATACAC A/G extended_map 0.145
0.005 0.196 0.061 48.5% 198 1.3% 156 3.4% 58
17.5% 80 NA 0 50.0% 66 37.5% 40 52.2% 92
52.4% 42 NA 0 2.6% 78 0.0% 78
3.4% 58 17.5% 80
rs2255532 APPLERA_RESEQUENCING 3 70.6307 48585206
reverse MIT
GCTAGAGCCTGGCGTCTCTTACATCTTCTCCCTGACGCCTGTCCTGGATGGTGTGCGGGGTCCTGAGGCATCTGT
CACACAGACGCCAGGTATAGTGGGC[A/
G]TAGTGGGAAGGGCAGAAAGGTGTGTCTGGGTGGGCTGCCCGCTTCAGTAACTTGTTCCCCTTCCTACAGTGTG
CCCCCGTGGCCTGGCGGATGTGGTGTT A/G extended_map 0.217
0.013 0.417 0.006 9.6% 178 70.5% 156 82.8% 58
78.7% 80 NA 0 16.1% 62 7.7% 26 5.6% 90
7.5% 40 NA 0 67.9% 78 73.1% 78
82.8% 58 78.7% 80
CV1297966 AB_ASSAYS_ON_DEMAND 3 72.6626 54034604
forward LGD
AGAGGAGGAAACCAAGGCTGAGGAAGTGACACACTCAAGGTCATTGAGCTAGAAAGTGGTTGTATCTGAATCTAT
GCCAGCTTAGAAAACCTCCATTTTT[A/
C]AGCCCTCTGCCATGCAGAATTTTTGCCTCACCCCCTCTGTAGGTTCACTGTGGGTCCCCGTAAGAACAAGGTT
ATTCAGCTTCTCAGGAGGACAAGGAGA A/C 514 0.31 0.169
0.089 0.151 84.3% 198 8.3% 156 51.7% 58 48.7% 80
NA 0 83.3% 66 90.0% 40 82.6% 92
73.8% 42 NA 0 7.7% 78 9.0% 78 51.7% 58
48.7% 80
rs530868 AB_ASSAYS_ON_DEMAND 3 74.4363 54645608

reverse MIT
GCAGAAACACTCTTTGCCAAGCCCCGGAGGGCACCCTAACCCCCTCAAAACCCCAAAATATGATCTATGAGCCAC
CTATGAACACAGATTCTGGGGTTCT[G/
T]CCTGCAGAAAATGGAGCCCACGAATCACTTTTGGCAAGACCCCCCACTGCCAACCCCTCGGTGACTCCAATGT
GCTACAATTTAAGAGTAGTAGATATGG G/T 1,623 0.17 0.001
0.297 0.050 29.2% 192 87.3% 142 91.1% 56 65.0% 80
NA 0 19.7% 66 31.6% 38 35.2% 88
16.7% 42 NA 0 87.9% 66 86.8% 76 91.1% 56
65.0% 80
rs2315945 AB_ASSAYS_ON_DEMAND 3 77.26 55882377
forward LGD
TTCTCTCTGTAACTTTTTGCAAACAATCACTATACCCTCGGAATCTCAGTTTCCTAGATGATGGCCATGGGTTCT
TCCTGTGTTTAACATTCTAGAGAAC[G/
T]GAAAACTGTTTCCTTTGCTGCCAAAACAAGGGCCTTAGAAAGCAAAAAATATCTCCCCTGCTGGGGTGATCAT
TAGGGTGGTTTCACAATATTCTAGTTC G/T extended_map 0.12
0.039 0.053 0.045 25.3% 194 74.4% 156 51.7% 58
50.0% 76 NA 0 19.7% 66 35.0% 40 25.0% 88
28.6% 42 NA 0 74.4% 78 74.4% 78
51.7% 58 50.0% 76
rs2291462 APPLERA_RESEQUENCING 3 78.3334 57089548
reverse MIT
CGTCTACTTTGATTATTCCTGCGAGGGAGACGTCCCCGGTATCCTAGACCTGAGTACCAAGTACAGACTCATGGA
CAATCTTCCTCAGCTCTGTTCCCAC[C/
T]TGCACTCCCGAGACCACGGCCTCCAGGAGCCGGGGCAGCACACGCGACAGGGCAGCAGAAGGAACTACTTCCG
GAGCAAGTCAGGCCGGTCCCTATACGT C/T 2,072 0.037 0.000
0.063 0.063 41.2% 194 15.6% 154 13.8% 58 42.5% 80
NA 0 43.9% 66 31.6% 38 43.3% 90
28.6% 42 NA 0 19.7% 76 11.5% 78 13.8% 58
42.5% 80
rs2362905 APPLERA_RESEQUENCING 3 78.8751 58069904
forward MIT
GTTAATATCACATATGGAGGAGCCCACATCCCCGGTGAGCTATTCCTCAGAGAGGACCCCAGAGAATAATTGATT
TTGCAGGAAAATGGGTTTGATTTTG[C/
G]TTATCTCTCTGAGTGGGGAAAACAATCTGATATTTGTAATAGCTGCAAAAGGAGAGTTTTTCTTAGGGCTACA
TCTCCAAGATTATCTCAACTCCCAGTA C/G extended_map 0.193
0.173 0.016 0.497 18.5% 184 79.6% 152 31.0% 58
2.5% 80 NA 0 21.9% 64 13.3% 30 17.8% 90
10.0% 40 NA 0 75.0% 76 84.2% 76
31.0% 58 2.5% 80
rs2037122 TSCAF 3 78.8421 58196450 forward MIT
AGGACTCCCTGCTGCTCAGTAATCTGAATTTACAGTGGCCCCCAGCAGTTTTTAAGGACTTTGTATGATGTGGAA
AAGTCTTCTCAAAGCTGACAGTTCC[C/
T]ATCTGTGTCAACTCATTCACAGCCCATGATGTTCAAACAGATCTGTACAGATTCCCTTCAGTCTGTGATTAAC
TTGCTTACTCCTTGAAGGTGATGCCTT C/T 901 0.155 0.000
0.201 0.113 92.2% 296 44.1% 254 44.8% 58 9.0% 78
91.2% 102 90.9% 66 92.1% 38 94.4% 90

92.9%	42	45.1%	102	44.7%	76	42.1%	76	44.8%	58
	9.0%	78
CV1962209	AB_ASSAYS_ON_DEMAND	3	78.894	58522550
forward LGD
AAAACAATTTTCTGGAAACAATGTGTGGTCCCTTTTTTTCTTCTTCCCCAATTCTGCATTTCTTGAGGCACTATG
AATGGTAGCCCCCTCAGCCTCCCAC[A/
C]CTGCTCTGCCTTAACTTCCCCAAACTCTCCTGGTAGAAGAGGACAGCTAGATTCTTGTCAAACCACTCTTTGC
TGACCCTGGTTCCTTGCACACATCCTC	A/C	extended_map	0.086
0.078	0.372	0.147	73.2%	194	31.4%	156	5.2%	58
0.0%	80	NA	0	68.8%	64	62.5%	40	81.1%	90
	71.4%	42	NA	0	30.8%	78	32.1%	78
5.2%	58	0.0%	80
rs1456153	TSCAF	3	80.3304	59676068	reverse MIT
TGCCTGCCCTTGGAAAATTGCTCACCTTGTTTTTGGTGTGAGCAGAATGACTTTCTGTGGCTGCCTCAGCCTGTA
TCTCTAGCCTGCTAGGAATGAACAA[C/
G]AGGTACTTTAAAAGAAGAGAGTTGTTAAAGAGGAGTTTTATGTTTGTGTCTCCAGACTGATTTATTGGTAAGT
GTGGTTACTTAATTTTAAAACCATGTC	C/G	1,417	0.122	0.047
0.040	0.072	11.7%	290	56.4%	250	30.4%	56	25.0%	76
	14.9%	94	14.1%	64	2.5%	40	10.9%	92
9.5%	42	51.9%	104	64.9%	74	54.2%	72	30.4%	56
	25.0%	76
rs1905863	TSCAF	3	80.635	59807672	forward MIT
ATAGCATGTTAGAAATATACTTGTATTGTTTAAATATTGGCGCTCTTCATTCCTGCAGCATATCTAGCCCACTCT
GGCTGATCTAGTATACAACCCGCAG[C/
T]CCTATATCCTGTGGCCCTGGGCAGGTTAACACGACTTGCAGTTTCTTTGTTCTCATGAACTGGTGTTCATGTC
ATACCCTCATGCATGCATTACCCTCTC	C/T	304	0.259	0.003
0.364	0.004	0.6%	320	53.6%	308	60.3%	58	46.1%	76
	0.0%	132	0.0%	64	0.0%	36	2.3%	88
0.0%	40	55.1%	156	52.6%	78	51.4%	74	60.3%	58
	46.1%	76
rs628404	TSCAF	3	80.6739	59824460	forward MIT
GCCAAGTATTTGGATCTTTTTTAAACATATTTGATTATTTACCCTTTGATTAGAATTTGTGAATAAAAATGTCTT
TTAAGAGACACAAAGGAAGGGGGTA[C/
T]GGGCAATAGCTCATTACTAAAAATCATTTTAGTGTGGAAAGTGGGCTTCACTATTCCTATAAGGCAGTCATTT
TCAAACTTCAGAGCATCACAAGCCCCC	C/T	extended_map	0.211
0.002	0.283	0.025	24.8%	314	88.8%	268	86.2%	58
98.8%	80	19.0%	116	24.2%	66	22.5%	40	33.7%	92
	19.0%	42	90.2%	112	83.3%	78	92.3%	78
86.2%	58	98.8%	80
rs6773849	AB_ASSAYS_ON_DEMAND	3	81.1967	60050306
forward LGD
TAATTCTTTTTTTTTTTTTTTTTTTTTTGTACACAAAGGACTCTTTTGTGATGGTTGGATCAACTTACACATCCA
GAGCACATGTGCATAGATAAAACTT[C/
T]GCAGTAAACTATCCTGTTACAGATAGCTTTTCTTACACATAAAAATACATTCTGATGAGCAATCTAGGGGAAA
CAAAACTAAAAAAAATTAAAATACAGA	C/T	1,813	0.076	0.002
0.091	0.001	65.2%	198	25.3%	150	29.3%	58	28.7%	80

NA 0 60.6% 66 65.0% 40 68.5% 92
66.7% 42 NA 0 20.8% 72 29.5% 78 29.3% 58
28.7% 80
rs6794160 AB_ASSAYS_ON_DEMAND 3 83.1323 60728656
forward LGD
AGCCATGGACTTGCAGAGGGTTTATTTACTATTGCAGCCTGGCTCTCTGCTGTGTCTGAAAGTTGACCTTGGTGT
CCTCTAAGTTTTATCCCAGAGAAAA[A/
G]GACAGCAATTGAGCTATTCCCCAGGCACAGGGGGCAAAATTTGAAATTGACATAAAACCAAGATTCCCTGTCT
GACTTGGGCCTCTGGGATTGTATTGCT A/G extended_map 0.085
0.015 0.059 0.000 61.9% 194 20.3% 148 32.8% 58
18.8% 80 NA 0 65.6% 64 65.0% 40 57.8% 90
54.8% 42 NA 0 11.1% 72 28.9% 76
32.8% 58 18.8% 80
rs1562521 TSCAF 3 83.5105 60837032 forward MIT
TGGTATACAATTTATATTTCCCTAGTGAGGCCCATTCTAGAATAATGGGAAAGGTTCACTGTTGTCAGAATGCCA
AGAATGAATTCTCTGAATCTGGCCT[C/
T]CCCTGAAATCAACACTTAGGTTCTGACAACCTCTAAATTCATCCTCACTAACTACATCAAACATTTAGCATGC
TTTTTATTGTGGGGATGGGGGTTGCTT C/T 711 0.189 0.008
0.353 0.047 87.5% 296 29.5% 264 19.6% 56 8.7% 80
86.7% 98 84.8% 66 92.5% 40 88.0% 92
90.5% 42 27.3% 110 28.2% 78 34.2% 76 19.6% 56
8.7% 80
rs1569244 TSCAF 3 85.07 62454785 reverse MIT
AGCCTACCCTGTAGCAGGTACAGTGTTAAAAGCCAGAGACTATGTAAACAAGAGGGAAACGGCTATTAGCCTCAT
GGAGTATACATGCAAATGGGTCTAT[A/
G]TATGTAAATCACTATATTGCAAGGCCTATTGGTAGAGTTATGTGTAAAAGGGATGGGGCATTGTCAGAAAACC
ATGGAAGTCTTCACGAGATGGTAAGGA A/G 1,866 0.083 0.107
0.001 0.066 41.0% 290 81.8% 264 44.8% 58 53.7% 80
43.9% 98 37.1% 62 28.9% 38 45.7% 92
28.6% 42 87.3% 110 76.3% 76 79.5% 78 44.8% 58
53.7% 80
rs888405 TSCAF 3 88.2411 64159040 forward MIT
AACTGTTGAGTGAACAATAAAAACTATCTGAGAGATAGAAGGAACAAGAACTCCTATGGCCTTGGCATCTGAGAC
CACGACCGTCAATTTACTCATCTAC[A/
G]GAATGGAAGAAAATCAGGTAACTCTCTCCTTCTAGCTCCGCAGGGTTTAACATTAGCTCCTGGGTAATCATGT
AGAAAAATGCTGCATTTCTCTGGGCTA A/G 1,482 0.142 0.027
0.097 0.112 30.2% 308 83.5% 266 67.2% 58 46.3% 80
27.7% 112 21.2% 66 35.0% 40 37.8% 90
26.2% 42 86.6% 112 80.8% 78 81.6% 76 67.2% 58
46.3% 80
rs929555 TSCAF 3 88.2823 64313669 reverse MIT
GTTTTGGCAAACTGCATCAAATCAAACCCTGAAAGCCAAATTCCATGGGGGAAGAGCGCCTTCGTTATCAGTTTA
CCAAGGAACCCTTGGACAAGTACAC[A/
G]TGTCCTTGTACCCCAGCGTTTGGAACACATCAGTAGACCAGACGCATGATAAATATTTTTTACAAAACCATTC
TACAAGCAAGTCGGGATTTAAAAAATG A/G 935 0.214 0.080
0.072 0.175 93.9% 310 37.1% 264 70.7% 58 85.0% 80

99.1% 112 92.4% 66 95.0% 40 88.0% 92
88.1% 42 38.2% 110 38.5% 78 34.2% 76 70.7% 58
85.0% 80
rs2888015 AB_ASSAYS_ON_DEMAND 3 88.639 64456681
forward LGD
CTCTTACTGTTTCCTTCACTCCCACAGCCCATCCCAAATCTATCAGTTGTCAGCTCCTATTAATTTTACCACCTG
TATCTCTCTATAGTTGTTTTTTTCC[A/
G]TACCATTACAATGATCACCACTCCAGGTCTCATTTATCTCTTACTGACTCTATAAATGCTTCCAAAACTTTCT
CTCTTCAATCTCTGTATTTGATCTATT A/G extended_map 0.215
0.010 0.225 0.024 79.6% 196 14.9% 154 24.1% 58
30.0% 80 NA 0 83.3% 66 82.5% 40 75.6% 90
85.7% 42 NA 0 16.7% 78 13.2% 76
24.1% 58 30.0% 80
rs768260 TSCAF 3 88.6973 64480036 forward MIT
AAGAAAGAAATTCTCAAACACAACATCATTCTGCTTTGATTTCTGTGCAATCACTAGGTCAAAGGCTGAACCACC
TACTCCGAAGCAGTCTCCACAATCA[C/
T]GCTTTCTACAAACCTTTTCCTGGAAAACTGATTTGAAAAACTCACATCTTGCATCAGTGTAGCTGGTGCTCAA
TATGTGTCTAAGGAATTGAATTCTTAA C/T extended_map 0.218
0.353 0.001 0.104 17.6% 296 82.0% 256 13.5% 52
45.7% 70 10.6% 104 15.2% 66 20.0% 40 26.7% 86
14.3% 42 80.4% 112 81.9% 72 84.7% 72
13.5% 52 45.7% 70
rs3796384 APPLERA_RESEQUENCING 3 88.7073 64484055
reverse MIT
CAGTTTTCAGAAAATCAGAATAGACCTGACCAGCATGCAGATAATCAGTAAGTTAGTGAGGAGTCCTTTGGGAAC
GTGTGCGTTCTTCTCTCCATTCAGA[C/
G]AGCAAGCATGTCTTGCACATTGGCTAGCAGGGAGGTGCGTATTGCACATTGCACATTGCACATTGGCTAGTAT
GGAGAGGAAGAACATTGGGAGCTTACA C/G extended_map 0.202
0.395 0.008 0.125 21.7% 198 84.6% 156 12.5% 56
45.0% 80 NA 0 18.2% 66 22.5% 40 23.9% 92
21.4% 42 NA 0 82.1% 78 87.2% 78
12.5% 56 45.0% 80
rs4688486 AB_ASSAYS_ON_DEMAND 3 88.8455 64539419
forward LGD
AAAAGGTAGCAGCTAAATAATTCCATATTTGAGAAAACACAGCTAACTACTCACTTCTGCAATAAAAATACATCA
TCTTTCATAGGAATTATAACACCTA[C/
T]TCAATCTGGCTTCATTAGTGACTTGGAATGTTGGGAGACATTATGCCATGGGAACAGGGCATAACACAAACAC
CCCAAAACTATGAAGAAGAGGGCAAGA C/T extended_map 0.258
0.072 0.133 0.096 85.4% 198 15.8% 152 44.8% 58
50.0% 78 NA 0 87.9% 66 95.0% 40 79.3% 92
85.7% 42 NA 0 14.5% 76 17.1% 76
44.8% 58 50.0% 78
CV26495 AB_ASSAYS_ON_DEMAND 3 91.7909 66453876 forward LGD

ATGGATAACATGAATGAAGGCCAGATGGCGTCCAGAGCAGGAAAGATCAGCTGTAATGAGAAACGTTTATTGAAA
ATGCAAGATTTCAGCTAAGCCTAGA[A/

C]GAAGAGCATGTTTTTTTGAAGAGGAGTCCTGGGAAACGAGGCCAGAAAAGTAAAATAAGGAATGGAGGGCATG
GAGTAAAATAAGCAAACAAAAAGGCCA A/C extended_map 0.368
0.193 0.116 0.033 13.1% 198 94.7% 152 50.0% 56
80.8% 78 NA 0 10.6% 66 15.0% 40 14.1% 92
9.5% 42 NA 0 96.1% 76 93.4% 76
50.0% 56 80.8% 78
rs6549157 AB_ASSAYS_ON_DEMAND 3 91.8926 66492002
forward LGD
TGCAGCCATAGATAACTGAGATAACAAGTGTGGCTAAGTGAGCATGCAATAAAACGTGAGTGGATTTTGGGGGAG
GAATAAAATCTAATCAAATAAACCC[A/
G]TCATCAGGAGTGTCAAAAAAATTAGTGTTATCAGCTGACCTTCCTGACGTGTTTGTCAGGGCCCTTGATTGAA
CGCAACAGGCTAACTGGCTGATGCCAT A/G 56 0.381 0.039
0.380 0.120 84.5% 194 1.9% 156 13.8% 58 30.3% 76
NA 0 82.8% 64 92.5% 40 82.2% 90
82.5% 40 NA 0 2.6% 78 1.3% 78 13.8% 58
30.3% 76
rs1590874 AB_ASSAYS_ON_DEMAND 3 92.9257 67536477
forward MIT
CATCATCTTTCTTTAAAAAATGCAACTGTTGTCTGAACACCTGTTAGGTGATAAGAAATATACTGAATGCTTTGT
ATGTGTATTACTTCTAATCCACCCA[A/
C]TAATCACATAATTTAGAAATTATTGTCATCAATTAATTGTTAAAAACACCAGAATTCAACAGACAGTAAGACA
GCCCATGCTTTTTCTATGACATCTCCC A/C 1,361 0.162 0.132
0.025 0.192 36.9% 168 92.3% 156 55.6% 54 45.9% 74
NA 0 35.7% 56 26.9% 26 40.7% 86
21.1% 38 NA 0 92.3% 78 92.3% 78 55.6% 54
45.9% 74
rs1288980 AB_ASSAYS_ON_DEMAND 3 95.8832 71026706
forward MIT
GCCTTAACTTCGCTTTTACTATCTGAAACCACGTTTTCATGCCAGTTAGCTCTGGGCCTCCAAAGTGGGCTCCAG
CTTCATTTACAAATGTTATAAAACC[A/
G]AGATTTCCCCAACGTTTCTGTTCTAACATATCATGAAAAGAGGTTATGGAAAAGCTTTAACAAACATATTCAA
ATAGACCAGAAACTATGGTGGGGTAGA A/G 624 0.321 0.023
0.336 0.018 81.8% 192 4.7% 150 14.8% 54 13.8% 80
NA 0 77.3% 66 97.2% 36 78.9% 90
83.3% 36 NA 0 2.8% 72 6.4% 78 14.8% 54
13.8% 80
CV486668 AB_ASSAYS_ON_DEMAND 3 99.829 72880133
forward LGD
CTTTACCAAGAGAAACCATGGAGGAAATAGTCTTGGGGCTTTGGAATTGATTGGAAAATGCCTTGTAAAGGATCT
GAATCAGGGGAAGGGTGAAGGAAAA[A/
G]GGCTGAAACTCTATATAGTTAGCTCAGAGGGTGAAGTATAAGGGAAATGATAATGAGAATATATAGCATTTGT
TAAGGGCTTATGATTTATGAGTTCATC A/G extended_map 0.209
0.000 0.325 0.027 24.5% 196 88.5% 148 89.7% 58
98.8% 80 NA 0 17.2% 64 32.5% 40 26.1% 92
16.7% 42 NA 0 88.9% 72 88.2% 76
89.7% 58 98.8% 80

CV489504 AB_ASSAYS_ON_DEMAND 3 100.02 72953142
forward LGD
GGTTTTACATCATTGTCATCACTAAATCATTACTTTGCCACTAAACCACCCCACTCCCAGTACCGATTTCTGTGG
TAAGTTAAAGCCCTTTGAATTTCCA[C/
G]TGACAGCAAACACAGCTCAAACTAGCACAGAAAAGAAGAGAATGGACTATGTCTACCTCCTGAATATTAACTG
AGTCAGCTTCCTCTTTTTATCTTTACT C/G 177 0.299 0.052
0.174 0.228 96.4% 196 29.9% 154 56.9% 58 85.0% 80
NA 0 98.5% 66 90.0% 40 97.8% 90
97.6% 42 NA 0 28.2% 78 31.6% 76 56.9% 58
85.0% 80
rs1027402 TSCAF 3 104.0285 76273727 forward MIT

CCAATGAAACCACCAATATTTTGAACTACTCTTCAAAAAAAAAGAGGGAGCAAAATATTAAACTGCCTGTCTCAG
TTAAATGTTTAAAAGCATATTATGA[A/
G]GTAAAACACAATCAACTAGGACCCTCCAATAAGATATATAAGCCTCTGCTTAATTTTTTAATGGAAAGGAAAC
ATTAGCAAAATGCAGTGTAATATTAGG A/G 526 0.257 0.186
0.047 0.153 22.0% 300 91.8% 256 46.2% 52 51.4% 74
22.1% 104 19.7% 66 23.7% 38 22.8% 92
14.3% 42 92.6% 108 91.0% 78 91.4% 70 46.2% 52
51.4% 74
rs2575780 AB_ASSAYS_ON_DEMAND 3 109.17 86967860
forward MIT
ACTCTAATTCGAGGTTTTTTTTTTTTTTTTTTTTCCTGATGAGTTTACAACATCTAGTGAAGTACTCCCTTCTC
TTATTAATGACTCTTATGAGGTTGT[C/
T]AGAGTACACCTCATATAAAGACTCTGAGGCTGGGGTTTCAACTGTAACAATTAATGATGGGCTACTTTCAATC
TTCATGGTTTGATTTATTTAATGAAAA C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 195 0.287
0.000 0.380 0.062 94.1% 186 26.0% 154 25.9% 58
55.0% 80 NA 0 100.0% 64 96.9% 32 88.9% 90
90.0% 40 NA 0 26.3% 76 25.6% 78
25.9% 58 55.0% 80
rs1465648 AB_ASSAYS_ON_DEMAND 3 109.4419 87871130
forward MIT
CATGATAGTACACATAGAGGAGAACGACATCCAAGGACTGGGTCTAGGATAGACACTCCACCAGAAGGAAAGAGA
AAAAGCACAGTATCAAGTTTGACTT[C/
T]GCAACAGTGCAATTATTTTATAATAACACCATTGTTTTAGAGTACAATTATACTGGCTCAATTAAACATCTCA
AAAAGATTCTGTTGCTGTAGTTTGTTT C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 1,363 0.2
0.041 0.495 0.008 87.6% 186 27.5% 120 8.0% 50
37.5% 72 NA 0 90.6% 64 97.4% 38 81.0% 84
78.6% 42 NA 0 31.7% 60 23.3% 60
8.0% 50 37.5% 72
CV11530869 AB_ASSAYS_ON_DEMAND 3 109.5871 88091928
forward LGD
GAAGACCTTTTACATTTTTGTCTTAATTTGCTGCAGTAACTTGCTTATGAGTGAATTGGATAGGTGGTGTTCTGT
AGCTTTATTCTGGAATCTTCATTTC[A/

G]TTCAGACTCCATAGTGCTTCCATTTACACAGATTTCCATAAAACCCTATTTTGATTAAAAAGTTACTTATTAT
TGAGAATGTATCTTCTCTGGCACACCT A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 1,738 0.145
0.000 0.226 0.001 70.7% 198 16.7% 156 15.5% 58
13.8% 80 NA 0 66.7% 66 77.5% 40 70.7% 92
71.4% 42 NA 0 14.1% 78 19.2% 78
15.5% 58 13.8% 80
rs2318151 AB_ASSAYS_ON_DEMAND 3 111.1634 97886508
forward LGD
CTTCCCATTTGGTTCAGTGAAAAAAATGAACTTAGAATAAACTAAGAGAGGACTATTTACTGGGTGTATTTACTA
TTTGCCGGAAACCCATGGTTTCCTA[C/
T]GAAAGAAACTATGGAGTAGCTCCAGTCACCCTTTACTCTATCTTGTCTTGAGAGAGATTTATTGTTCCTTACC
ATTACTGTAGCTGGAAAGGAAAATAAT C/T 947 0.244 0.219
0.027 0.082 24.5% 196 92.9% 154 42.9% 56 66.2% 80
NA 0 31.8% 66 17.5% 40 22.2% 90
21.4% 42 NA 0 93.6% 78 92.1% 76 42.9% 56
66.2% 80
rs1112418 AB_ASSAYS_ON_DEMAND 3 111.1668 97896318
reverse MIT
GCTCTTAAATTTGAACAGCACTGAAGAAACACAGATAAATTTTCTATTTACAGGAATTAATTTTCGAATATAGGT
ATTGCCAACTATAACACTAGTATTT[A/
C]AGACACTATTTGCAAAATATGTTATAGTTCCCATAGTTATTGCCTATCCTTTATTGGCTAAATTTTAGAAGGC
CTAGTCTTAATTTTTTGGAAAGAAAAA A/C extended_map 0.241
0.218 0.031 0.110 70.3% 172 3.5% 142 50.0% 44
32.4% 74 NA 0 60.7% 56 76.3% 38 74.4% 78
66.7% 36 NA 0 2.9% 70 4.2% 72
50.0% 44 32.4% 74
rs6767738 AB_ASSAYS_ON_DEMAND 3 111.2396 98106236
forward LGD
AAAGGTACTTTTATATATTTGAATATGAAAATGTCATTTATACTATTGACTTCAGTTATTAAATAGGTCATATGT
CCTGAGGTTTTAAGGTTTTAGGAAA[A/
G]CTAGAGAAGAGAAAGGTTTCATAAAATATTTCCAGGTAAGTCCTGCAGGAGACATACCAGTGTTCCAAATGGG
ATGAGTTTCTGCTGATAAGACCCAAGA A/G extended_map 0.153
0.050 0.063 0.014 86.4% 198 34.0% 150 60.7% 56
21.2% 80 NA 0 90.9% 66 87.5% 40 82.6% 92
85.7% 42 NA 0 34.2% 76 33.8% 74
60.7% 56 21.2% 80
rs2133883 AB_ASSAYS_ON_DEMAND 3 111.2671 98185725
forward MIT
TGGTTATAAAATTCTTGTCGCCAAAGTATCTAGTATTCATATTTACCTATGAATTTTTTCATAGAGTATTCTTAA
TATTTTTAAATTGGTCCATTCTCAT[A/
G]TATTAGCAAATTTACCCCCAAATGACATACACACTGCCATATTTTTATTTGAAACTAAATGACTACCATATTA
TTTGATTGCTCCTTTTAAATTATACAA A/G 658 0.27 0.221
0.034 0.006 17.5% 166 89.3% 112 36.4% 44 83.3% 66
NA 0 8.3% 60 20.0% 30 23.7% 76
8.3% 36 NA 0 94.4% 54 84.5% 58 36.4% 44

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        83.3%   66
rs2118350       AB_ASSAYS_ON_DEMAND     3       111.4015        98573454
        forward LGD
GGGCTTTTCTATGTAACAAACCTTGGCCAATGGGACATTAGCAAGTGTGATGCAAGTAAAGGCATCTTACATGTT
TGTACGTTGGAGCTTGTCCTCTTGC[A/
C]ACACTCTTTCCTGGAACGAGTCTCTATGCCTAATAAAGGCAATCCATAAGATGAGGCCACATGCAGTACTCCA
AAGAAGAGAACTGAGGTGATTCAGCCA     A/C             extended_map    0.107
0.223   0.005   0.003   35.9%   192     82.5%   154     27.6%   58
87.5%   80      NA      0       31.2%   64      50.0%   38      33.3%   90
        42.9%   42      NA      0       79.5%   78      85.5%   76
27.6%   58      87.5%   80
rs1352158       AB_ASSAYS_ON_DEMAND     3       111.426 98643972
forward LGD
AAATCAATAATAAGATACAAATGAGGAAATTAAATATGCCAATGAGAAATATATAATATTCAAATGAGGAAACAG
AGACAGTGAGTTGAAAAGTGAGTTA[A/
T]AAAAGGTTACTTGTCCAAAGGGGAAAACATCTCCAATATCAGGCTATGTGACTCTAATCTTACAACTTCAACT
GTACTGTGCTGGGTGAGCAAAATATAG     A/T             extended_map    0.134
0.376   0.033   0.063   71.6%   194     19.5%   154     89.7%   58
47.5%   80      NA      0       79.7%   64      57.9%   38      71.7%   92
        85.7%   42      NA      0       23.1%   78      15.8%   76
89.7%   58      47.5%   80
rs7627117       APPLERA_RESEQUENCING    3       113.4834        103516581
        forward LGD
ATTTTTTTCTATTACATTTGTATACCTAGGGCAGGGGTAGGATGTGGGCTTGGGGAATAGAAAGATGATGAAATC
CAGGACATATGAAACAGGGCATGGA[A/
C]AAGCAGAATGGTTTAGGGGGACTTTCATTTTTGCCTTACTCAAGGAGATTATGGGTGGACGTAAGAGGAGATA
ACAGGTAAAAATGTAGGTACAATGTAA     A/C             extended_map    0.101
0.000   0.160   0.005   26.8%   198     72.1%   154     74.1%   58
64.1%   78      NA      0       15.2%   66      30.0%   40      33.7%   92
        21.4%   42      NA      0       67.1%   76      76.9%   78
74.1%   58      64.1%   78
rs870343        AB_ASSAYS_ON_DEMAND     3       114.0101        104494277
        reverse MIT
CACAGAAATATTACTGTGCTCCCTAGTGAAAGTATTTTCCCATAGGAATCAGAATCTCTAGTCTGCAGTAGTGGT
CACTGTAATGATAGGGACCAAATAC[A/
G]CAAGTAAGTCATTGGACTGAGGGTGAGGGGAAAAAATCCTGTGTCTACCCTTTGCTTCACAGATTACTGTTCA
GTTACTGAGCACAGAGTTTTATATATC     A/G             267     0.259   0.063
0.125   0.021   95.4%   196     33.1%   142     63.0%   54      50.0%   78
        NA      0       97.0%   66      97.5%   40      93.3%   90
97.5%   40      NA      0       38.6%   70      27.8%   72      63.0%   54
        50.0%   78
CV27807 AB_ASSAYS_ON_DEMAND     3       119.0146        110334009
forward LGD
GACAATAGTGTATAGTCAGAATTGGTTTCCTTTGGGTTACTGAATTGGACCCCTTCTTAGTTATTTCAAAGACTA
ATGATACCATGTTTTCCAATCCTGT[A/
G]TTGGTCTTCAGGCCAGTCTTTAGGCAAGACATGTTTATACTAGAAGACCATTGATTAATGATACTTTCAGAAG
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GCAGATGCTATAGCATTTTGAGAGCCT A/G extended_map 0.207
0.001 0.251 0.005 93.4% 198 37.0% 154 39.7% 58
28.7% 80 NA 0 98.5% 66 100.0% 40 87.0% 92
97.4% 38 NA 0 32.9% 76 41.0% 78
39.7% 58 28.7% 80
rs1163447 AB_ASSAYS_ON_DEMAND 3 119.0529 110377652
forward LGD
ACGATTCTACGGGGAAAAAAAACAAAAAACAAAAAACAAAAAAACAGTGGCCAGAGACTTGAGCAGGATGTGTGA
AGGGATTTAATAATGGAACTTGTGG[A/
C]AACAGTAGACTTCAGAGACCAGACTGGCGGCTTGAAGAAAGCTATTTTCTCGTACCAAATACATTCCATTTCC
TAAGTAAGTTACTCAACCAACTAAAAC A/C 50 0.375 0.010
0.425 0.019 9.1% 198 90.4% 156 82.8% 58 78.7% 80
NA 0 3.0% 66 7.5% 40 14.1% 92
9.5% 42 NA 0 89.7% 78 91.0% 78 82.8% 58
78.7% 80
rs2280066 AB_ASSAYS_ON_DEMAND 3 120.6639 113639035
forward MIT
AAGGACAGGCACCCAGTTTTCCCAAGTCCAGTGGCCTTTTCATGATACCCATTTCTGTGTATCATTTCATTGATT
TCTGTGACAGCTGGCCCTTTGCCCC[A/
T]CATCACCAAATCTTAACTCTTTGGACTTTAATAATGTGCAAAATTAAGAGGAAGTCTGGCATCGGGAGCTTTA
CACAACTCAGAGAGAACTGAGGAAAGT A/T 706 0.229 0.201
0.027 0.075 74.0% 192 7.6% 144 55.4% 56 33.3% 78
NA 0 76.7% 60 70.0% 40 73.9% 92
90.5% 42 NA 0 5.6% 72 9.7% 72 55.4% 56
33.3% 78
rs3773678 AB_ASSAYS_ON_DEMAND 3 121.8211 115190979
forward LGD
CAGCTGGTGTTTCTCTAGGCCTCTGACTCTCCTCAGAGCTTTAGACTCTGCCGGGGGCTTCTAGTACAATATGTC
TACAAGGGCCTCGCTGTTAGTGGTA[A/
G]CTATGAGGCACCTTGGAGGAGGGGCTGAGCCTTGAGTCCTGCTGCTGCCATGACTGAACAGCGAGGGGAAGGA
ATGCTGTAACTCACTTTCTCCAGGCCT A/G 1,338 0.18 0.002
0.310 0.005 26.0% 196 85.7% 154 89.7% 58 79.5% 78
NA 0 22.7% 66 30.0% 40 26.7% 90
14.3% 42 NA 0 88.5% 78 82.9% 76 89.7% 58
79.5% 78
CV74522 AB_ASSAYS_ON_DEMAND 3 122.1648 115485057
forward LGD
ATGTTGTTATAAATCCTTGCAATAGTAAATTCTACAGTTAATTATAACCTATAGGAAAAAGTACTGTCCATATTT
AGAATTGATTGACTCTTATTTTCCA[C/
T]ATCTGTTAATTTTGCACCCAGCTATAGGGCTTTAAATAGCTCCCATAACTTTAATCATTAGCCCCCACTCAGT
CATGACTTCTATGTCTCACCCTTCTGA C/T 1,499 0.221 0.271
0.001 0.019 10.1% 198 72.1% 154 12.1% 58 56.4% 78
NA 0 16.7% 66 2.5% 40 8.7% 92
26.2% 42 NA 0 70.5% 78 73.7% 76 12.1% 58
56.4% 78
rs938521 AB_ASSAYS_ON_DEMAND 3 123.232 116896850

forward LGD
TTTTAATGACCCTAATAGAGTTCTCTTTTACTGGGGAAGAAAGGGTGTGCTGCATACTCTGCTGTTGAAGGACTG
CACAGGGGCATCTCTGGCCATGTCC[C/
T]GAGGAATTATCTGCCATGTGGAGTTATCGTTTTGGAAACCAACAGAGCTCCCTGTGGACACAGGCACGATACA
ATCTTAGCAAGTGCCGTTTCTTGTTTT C/T 1,940 0.126 0.186
0.000 0.001 39.4% 198 88.8% 152 41.1% 56 91.0% 78
NA 0 33.3% 66 52.5% 40 38.0% 92
31.0% 42 NA 0 88.2% 76 89.5% 76 41.1% 56
91.0% 78
CV1612166 AB_ASSAYS_ON_DEMAND 3 123.6597 117289482
forward LGD
TCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCCAGCCAGAAGACTCTTTAATACATAGTCTT
CTGGGTACCGTATATCCAAGAGAGT[C/
T]CCGAAAAATTAGTATTTTCAGCAAAATCAATAATAGACCCCATTAGATCATACTTAGCCACAGTTATGGGCCA
GCACTACCCTTTAGCATATGTTTATTA C/T 1,086 0.245 0.052
0.137 0.002 8.6% 198 73.1% 156 46.6% 58 77.5% 80
NA 0 7.6% 66 2.5% 40 12.0% 92
7.5% 40 NA 0 71.8% 78 74.4% 78 46.6% 58
77.5% 80
rs2160052 AB_ASSAYS_ON_DEMAND 3 126.59 119962780
forward LGD
ATGCAACATCCTGAGTTAAGAAGGAACTGACTGGAACACCTCAGGCTCTGTTCCAGACCCTCCTAGAAACAGGAT
GTCCTTAAACACTTTAATGCAGTGA[C/
T]ACTCAGGTATAAAACTCAGAGTGAGCTGCTTTCCGGGTTCTCTCAGCTGACGTGCAAGTGGACATGTGCATAA
GAGACTCTATCTGTTCCAGGAAGCTTT C/T extended_map 0.188
0.146 0.028 0.011 26.0% 192 87.0% 154 44.8% 58
77.5% 80 NA 0 31.7% 60 25.0% 40 22.8% 92
14.3% 42 NA 0 85.9% 78 88.2% 76
44.8% 58 77.5% 80
rs1464603 APPLERA_RESEQUENCING 3 126.9839 120847250
reverse MIT
GGGATATAAATGGCTCCCTTGAGACTAATTACAAGGCCTTTGGGTGGGCCACCAGCCCACACTCTGAACCTGGGG
GACAGGTCAAGCTGAGGCCCTGAGA[C/
T]GTTACCCAGTGGGTCAGTGGTGGCACGTGGGTGAAGGCTGATGGGTAACTCTACCTGAAAAAGCCCTTGCATC
CTTCACATGTCATGACATTGAAGTGAT C/T 165 0.303 0.015
0.534 0.022 3.9% 178 71.8% 156 84.5% 58 55.0% 80
NA 0 1.6% 64 0.0% 24 6.7% 90
5.3% 38 NA 0 76.9% 78 66.7% 78 84.5% 58
55.0% 80
rs1909808 TSCAF 3 128.7557 123646368 reverse MIT

CCCTGACCAATTAAAGGCAGGATCTCTAGGGGTGGGGCCTGGGAGTCCGTATTTTTAAAAGGTCCCCCGGATGAT
TATGATCTGCAGCCAGGATTGAGCA[C/
T]GATGGATGTCAACTATAGGAGGAATATAGGGCCTGTATCTTCTGTTAACTGGTGATTCCAAGGAAGAGGAAAC
AGTAGGAGAGGAGGGGTAGGCAGGAGC C/T 505 0.265 0.019
0.537 0.002 78.9% 308 8.2% 304 0.0% 58 10.3% 78

77.3% 128 76.6% 64 89.5% 38 78.2% 78
77.5% 40 10.7% 150 7.9% 76 3.8% 78 0.0% 58
10.3% 78
CV11785515 AB_ASSAYS_ON_DEMAND 3 128.7817 123662668
forward LGD
ATGGAAGTGAGGGCTTCTTATTTGGGAAGTATTAATAGTATGTAGCCACAGATTACCATTAATCTAAGAGAGTTT
TTCAGCAATTAAATTCCTGGTCTTA[C/
G]AGCCACCACCATCATTTTAGCTCAACTCTGTAGACTTCCTTCCTCTTCCCAGATTAAAACAGAATGCTCCTGC
AGGTATCCCAGGTCCCTCTCGTATGAA C/G extended_map 0.145
0.017 0.117 0.000 76.3% 198 22.4% 156 36.2% 58
20.0% 80 NA 0 69.7% 66 90.0% 40 75.0% 92
83.3% 42 NA 0 25.6% 78 19.2% 78
36.2% 58 20.0% 80
rs1985665 AB_ASSAYS_ON_DEMAND 3 129.4218 124062913
reverse MIT
AGTTTACCTATCACTAAGTTGGCCTTAAATTTATGACAACACTTAACTAACTTGGTCTTAAATGTATGGCAAGAG
GCCAAAGCAAATGCCTGGACTAATG[A/
G]AATTTCATTGAATTGACAGAATTGAGCCCTTCATTTATAGCTTGTGTGGACAACACCTGGATTTTTCACTGGC
ATCGTGCTATACTTTTGCAAACCCCCC A/G 1,080 0.217 0.000
0.342 0.004 20.1% 194 85.1% 154 87.5% 56 80.0% 80
NA 0 21.2% 66 10.5% 38 23.3% 90
5.3% 38 NA 0 88.2% 76 82.1% 78 87.5% 56
80.0% 80
rs33262 AB_ASSAYS_ON_DEMAND 3 130.4953 124734125
reverse MIT
ATCTTGGCATCCTCCCGCCCACCCAGATGAATGGAAAGTTCTCTCTCCAGGACATGGTTATCCTCATTCCCCACT
CCTGTGCCTCACGATTCTTACTCTT[A/
T]TGACAGACTTCCTAAAATTCCAGCCTAAATCCTCTCCATTACAGTTTCTACAAATTCTGACTCCTAACTACAA
AGGGAAGAGAACAGAGTGAAGCCTTCC A/T extended_map 0.2
0.152 0.024 0.311 14.4% 194 75.3% 146 29.3% 58
11.5% 78 NA 0 10.9% 64 28.9% 38 10.9% 92
5.0% 40 NA 0 84.3% 70 67.1% 76
29.3% 58 11.5% 78
CV1602709 AB_ASSAYS_ON_DEMAND 3 130.6017 124800686
forward LGD
AAAAGTGATCCTTGTTTTTATGTATTATTAAAAAACACATTTTAAAACAAATATCCAGTCTGCAGTTTTACTGTG
CCATTATTCCACTCCCAAAATACCA[C/
T]TTGAGCCTTGGAGACAGAGACCATCCCCTGGATTTCTGCCTCACTGACTAATGCAGCCCTGGAATTTCAAGAA
GGATGGGTGAGTGTCAGGAAATAAATC C/T 769 0.27 0.072
0.112 0.336 99.0% 196 42.2% 154 74.1% 58 100.0% 80
NA 0 98.5% 66 100.0% 40 98.9% 90
100.0% 42 NA 0 44.7% 76 39.7% 78 74.1% 58
100.0% 80
rs735739 TSCAF 3 133.2139 127314442 forward MIT

CAGGGTGAAACCAGACCACAGAGAACCTTTTGAATGTCATGTTAACCCTGGAAGTGATGGGAAGCTCTGCTCAGA

AGGTGTCTGAGTGAGCAGGGGTGGG[A/
C]TGACACTAAAGAGAGGAAGCTGCTCACAGACCAGACCCAGAACTGCTCACCCAACCTTGCTGTCCCCAGCAGC
CTCCGTCTGTTCCTCCCCTCCCTCCCT A/C 1,744 0.235 0.085
0.121 0.001 29.2% 284 95.2% 252 70.4% 54 97.5% 80
25.5% 110 23.2% 56 43.8% 32 32.6% 86
26.3% 38 95.5% 110 93.1% 72 97.1% 70 70.4% 54
97.5% 80
rs729456 TSCAF 3 133.4216 127549319 reverse MIT

TTGAGCAGTACCCCTGCCAGACGAAAGTGGCTGCCGCCATCATGCACATGATTATGAACAACCTGGATCCTGCCG
TGGCCCAGGTAATAGCCAGGGAAAC[C/
T]GAGGCCCAGCACTGTCCAGCAGAAACAGAACACGAGACACACGTGTCATGCTTTTAAGCTCTTAATTTTGAGA
TAATTATAGATTCACAGAAAGTTGCAA C/T 2,043 0.14 0.019
0.094 0.001 10.5% 332 58.1% 310 41.4% 58 53.7% 80
11.2% 134 12.1% 66 10.0% 40 8.7% 92
9.5% 42 56.4% 156 61.8% 76 57.7% 78 41.4% 58
53.7% 80
CV1935617 AB_ASSAYS_ON_DEMAND 3 133.4361 127565759
forward LGD
TCTGACCTCCCTCCCTCTCCTGCAGAGCCTGGGAAGAGACAGCAGGTGTTAGGAGGACGGCTCCGAACCTCCCTT
CCCAGCCTCTGCGCAGGCTGGGCTC[C/
T]CCACCTGGCCTGTCCTGCTCTTGGCCATGACCTCACCCAGCATCTCAGCATCTCTCTCTGTTTCTGTCAAGCG
CTCTTGTACCTCTCCCATGGCCTGTCT C/T extended_map 0.149
0.030 0.084 0.004 10.6% 198 60.4% 154 39.7% 58
52.5% 80 NA 0 9.1% 66 15.0% 40 9.8% 92
7.1% 42 NA 0 62.8% 78 57.9% 76
39.7% 58 52.5% 80
rs1008175 AB_ASSAYS_ON_DEMAND 3 133.7678 127940923
forward MIT
ATCCAAACCATATCACCAGCACAGCACTTGGCACAGAGCAGGTGCTGAAACAGCTTCACAGGGGCAAGTGGTGAT
GCATACTGTCAGCTTCAAGAAGGAA[A/
G]AGCCTAACTCTGACTAACTTACTGACTGAGAAATGTGTAACAGGAGACCCAGGGTGGTGTAGCCTACATGGTC
GGCTTCACCCATAAACTGCTAATTTTC A/G extended_map 0.172
0.192 0.006 0.068 27.6% 228 85.9% 192 35.7% 28
58.8% 34 27.3% 110 21.4% 42 25.0% 20 33.9% 56
22.7% 22 87.7% 106 88.6% 44 78.6% 42
35.7% 28 58.8% 34
rs4303883 APPLERA_RESEQUENCING 3 136.4994 130211259
forward LGD
GCTCTAGAGGGGTATGAAAAGGAAGTGTTAAATACTTACCATCCTCCTGAAGATCACAATCCTTGGCAAGATGAC
CAGACTCACCACAGCGATAACAAAT[A/
G]TCTGGAAGAGACGAGGAAACAAACTGGAAACCTGTTTTGAGCAAAAACAAAGAATTCGGCTAGTCAGACCAGT
CTTGATACTAACAAATACTGAAGTACT A/G 1,190 0.227 0.035
0.202 0.007 67.7% 198 3.2% 156 15.5% 58 7.5% 80
NA 0 65.2% 66 62.5% 40 71.7% 92
57.1% 42 NA 0 2.6% 78 3.8% 78 15.5% 58

7.5% 80
rs2811337 AB_ASSAYS_ON_DEMAND 3 137.0791 130903793
reverse MIT
AAAAAAGGGAAAATATAGTAAAAAGTATAGTGCCTTAGAACTCTTTTACAGAACTGCACAAGGATGCAAGAGGTG
GTAGCACTGTGATGGTTTTTAGAGA[C/
G]AGCATGAACCCGATAACTTCTTTTGCATTCTTTGCATTATTTCACAACTAGTTCTAGATAAAATAATTTTTTC
TTTTGAGAACAAGGACATGGCATTTGG C/G extended_map 0.326
0.041 0.242 0.159 92.1% 190 17.1% 146 38.5% 52
62.8% 78 NA 0 92.4% 66 89.5% 38 93.0% 86
89.5% 38 NA 0 15.3% 72 18.9% 74
38.5% 52 62.8% 78
rs1453255 AB_ASSAYS_ON_DEMAND 3 137.3976 131298567
reverse MIT
GTACAAAGGCCCAGAGGCGGACTGTGCTTATCTCTGGAGTTCTGCTCTATGCTCTTGCTCCCACAGATTAGCGTA
CACCCACCTCCAACCTGCAGCTGCA[C/
T]GGCGCACATCTGTGGAACTCCTTGCCACGTGAAGAAAGCTGGCATGAAAAGTGAGTGCAGCGCTGCCAACATT
CAACACTCAGATCTACTGCACATGATC C/T 530 0.306 0.139
0.084 0.191 96.5% 198 28.9% 152 73.2% 56 80.0% 80
NA 0 98.5% 66 97.5% 40 94.6% 92
97.5% 40 NA 0 33.8% 74 24.4% 78 73.2% 56
80.0% 80
CV8291911 AB_ASSAYS_ON_DEMAND 3 137.5097 131437605
forward LGD
GGCGTTTAAGGTGAACAGTGACCAAGGATTCCCTGCCAAGTTCCAAATCTATCAGAAAGCAGTGTTTGACAGCTT
GCTGCAAGTCAACGTCAGTGGGCCA[A/
C]CTCATCTGAACGCACAGTTCTTGCGGTCTCTTTGGGACACATTTAAGGATAAATCTGCATCCCGGGGCCAGGT
ATCCATATTACATTCTATCTCCCATCT A/C 48 0.388 0.167
0.118 0.289 2.5% 198 78.9% 152 31.0% 58 16.7% 78
NA 0 0.0% 66 5.0% 40 3.3% 92
4.8% 42 NA 0 77.6% 76 80.3% 76 31.0% 58
16.7% 78
rs1027858 AB_ASSAYS_ON_DEMAND 3 137.6602 131624095
forward LGD
ATATTTCTTGCAAGTCAACAATCCCCTGGTTCTTATGACTCTTAAAATTTTACATTTCCTGGGTATTATAAGAAA
AATCAGATGACAGAAGGTTTCATTT[A/
C]TCTTATAAGTAGATCCATTAGCATGCCTTCTCTTGATAACTAAACACCAATTGATGTACAAGCATTTCATATC
CCAGCCCACTCTACAACCTCTTTTCTC A/C 902 0.247 0.050
0.167 0.232 79.3% 198 10.4% 154 31.5% 54 64.1% 78
NA 0 77.3% 66 87.5% 40 77.2% 92
88.1% 42 NA 0 9.0% 78 11.8% 76 31.5% 54
64.1% 78
CV2132426 AB_ASSAYS_ON_DEMAND 3 141.8739 134616094
forward LGD
GGCTTCTCCACTCTTGAGATTTCTTTGTAGTGGTGTTGAGTAGAAGTGATTAGACTTGAGTTTGATTCCCAACCA
CTTGTTGGCTTCCTTAATGTGTCTT[C/
T]CTCTTTTCTGTCTCCTGGGGCTTGACCTGTAAATAATGGGGAGGAGGGAATGTGAGGTTCTTACCATTTGGTG

TTGTGGAACTGCCTGTGTGTGTGGCTC C/T extended_map 0.199
0.014 0.183 0.011 17.7% 198 79.5% 156 67.2% 58
68.8% 80 NA 0 22.7% 66 15.0% 40 15.2% 92
23.8% 42 NA 0 79.5% 78 79.5% 78
67.2% 58 68.8% 80
rs157283 TSCAF 3 144.4755 138768734 forward MIT

TTTCAACAACAACAACAAATCTTCCCCTATGTATATGCTATCTTTTGGTTGTTTGTTTGAGAATTCAAGGGTTTC
ACAACTGTCGAAATAAGTTTGAATT[G/
T]ACAAAAACTGGGTCATGTTTTCCTTCCACTTATAGCTTTCTTTGGAATGAATTAAAAATTATATATTAAATGT
TCACAGTTTAAAAAGCAAGGAAGATGG G/T 2,099 0.039 0.004
0.048 0.002 15.3% 288 0.0% 252 0.0% 52 0.0% 72
13.6% 110 12.9% 62 25.0% 36 15.0% 80
9.5% 42 0.0% 110 0.0% 72 0.0% 70 0.0% 52
0.0% 72
rs584059 TSCAF 3 145.2403 140151995 reverse MIT

CGTCTCCCACAGATGTCTGGACCATCAGGCAAGCTGGACCTGTCCTGGTCACTCCATAACTCCCTGGCATCTGGT
GCCCACAACCCAGGACCCACAGAAG[A/
C]CTTGGAAGATGTCTCAGAAGCAGAAACTTCTGTCCTAAGGAAAAATTCCAGAGAAGTGGAGGCACAAAGTGTG
GGCCAGGGCATTGCCAGACCCACCCCA A/C 1,311 0.123 0.146
0.005 0.105 53.3% 330 6.8% 308 44.8% 58 37.5% 80
48.5% 136 60.9% 64 39.5% 38 60.9% 92
45.2% 42 5.1% 156 10.5% 76 6.6% 76 44.8% 58
37.5% 80
rs347973 AB_ASSAYS_ON_DEMAND 3 146.3125 141613445
forward MIT
GACTCCTCCTACGAGGTACAGTCTCCTCATACAAGGGGTTTTGAGATGGAGAGTCAGAGGGCCAGGGCCCTGGGC
TTTGGGGTGGAAGGACAGAAGAGTA[A/
G]CAGTCTAGGAAAGGGACTAGACATGTAGCCTAGGAAAACTAGCACCATCTGTTGAGTTCTGAAGAACCCAGAT
TCTCTCCTGCTCACAGCCTCAGCAGTC A/G 730 0.22 0.077
0.083 0.156 8.8% 194 69.6% 138 36.5% 52 23.1% 78
NA 0 6.1% 66 2.6% 38 13.3% 90
9.5% 42 NA 0 65.7% 70 73.5% 68 36.5% 52
23.1% 78
rs765990 TSCAF 3 146.6615 142051298 reverse MIT

TCTCTCTGAAATGCAGACGTCTCCTCTGCAGCTTCCAGAATGAGAGCAAAATCATCACAACGAGAGTGCCTTCTC
TTTCATGCTCCTTCTGGATCTCAGG[A/
G]ACAACTCTAGGGGATGGGTATTATTGTCTCCATTTGCCAGATGAAGAAGCAGAAGACACTGGAAATTACTGAT
GCTGAAACAGTTGCACCCTGAGCACCT A/G 1,657 0.129 0.039
0.072 0.011 58.7% 310 9.5% 264 26.8% 56 17.5% 80
67.9% 112 62.1% 66 50.0% 40 48.9% 92
57.1% 42 8.9% 112 10.3% 78 9.5% 74 26.8% 56
17.5% 80
rs919157 AB_ASSAYS_ON_DEMAND 3 147.0651 142103548

reverse MIT
AGAAGCAAAGACTAAAGGAAGTCACTACAACAACCCTGTGAACAAAGTTCCTGGGAACCAGGGAGCAATCCTGCC
CTCTTCTTGGTACCTCCTCCACATG[C/
T]GTCTCCTGCAAAATGCTGATCCAAGAAGGTTTACCTCTTTCAAAGAGGAACCAGCACAGGATATAGTCAAAGA
TGCTATAGAAGAAAGAAAGGAATAAAC C/T extended_map 0.161
0.109 0.032 0.062 29.3% 198 86.0% 150 50.0% 54
60.0% 80 NA 0 31.8% 66 10.0% 40 35.9% 92
23.7% 38 NA 0 89.2% 74 82.9% 76
50.0% 54 60.0% 80
CV2068534 AB_ASSAYS_ON_DEMAND 3 147.1144 142109929
forward LGD
CAGCATCTCAAAGCTAACTACAAAGAGCTGCAGGACGCACAGGGGCCCTGCCATCTAAGTGAACTGAGAAGTATG
GAGCCAAGGCCAGGCAAATGGAGAA[A/
G]CTGTCCCAGGGGTTGTCCAGGGCACAAATAATAATAATAATAATAGCAACAATAGCAACAACTAATACTTATG
TAGTGTTTAGTCTGAGTGGGTGAGGGG A/G extended_map 0.14
0.027 0.096 0.048 32.1% 196 85.1% 154 69.0% 58
62.5% 80 NA 0 31.8% 66 12.5% 40 41.1% 90
28.6% 42 NA 0 88.5% 78 81.6% 76
69.0% 58 62.5% 80
rs985627 TSCAF 3 147.74 142192267 reverse MIT
CCACTCACTATCTCAAATTCTCATAAGCTCAAATTTTTCTATTCAAAATAGTACATTGAAGACCAAGCCATTCTC
AGTCTGCTCTTCACTTCTAATTCTA[A/
C]GGTTATTCTGATTGCTCAGGACAATGCTGTCTGGGAAGACTGCCCCACAGCTTGGGCCTCACAGGTCAGGGAG
CGAGTGGGGCTGCAGTCAATTTGTCAA A/C 2,112 0.044 0.006
0.089 0.015 0.9% 330 14.7% 306 20.7% 58 5.0% 80
0.0% 134 0.0% 66 0.0% 38 3.3% 92
0.0% 42 13.6% 154 19.2% 78 12.2% 74 20.7% 58
5.0% 80
rs3796259 APPLERA_RESEQUENCING 3 147.74 142299830
forward MIT
GTTCTCCAGCTAGAGATGCATGCTTCCCTGCCGGGGGACTGGGCTAATCAGATTATTATCAGTTGACAAGTTTGG
TTATTTTCAGTTGACAAATTTAGTT[C/
T]TCCACCTCTAAACACTCATTTATCACCTCTGCTTTATTCACAGGACATGTTCCCGATTTGAGGTGAAACCATG
AAGAGAAAATAGAATACTTAATAATGC C/T 956 0.208 0.120
0.046 0.110 84.6% 182 22.0% 150 62.5% 56 60.5% 76
NA 0 82.8% 64 92.9% 28 83.3% 90
84.2% 38 NA 0 24.3% 74 19.7% 76 62.5% 56
60.5% 76
rs6793735 APPLERA_RESEQUENCING 3 149.1449 143729515
forward LGD
ATAAACTGGGCTGCAAACAGTTTGTTACTCCTGCAGATGTGGTTTCAGGCAATCCTAAACTTAATTTAGCTTTTG
TAGCTAATTTGTTTAACACATACCC[A/
G]TGCCTGCACAAGCCGAATAATAATGACATCGATATGAATTTACTGGAAGGTGCGTTCTTTCTGCCTTTAATTG
ACTTGCTATATTTATCTTCTTATGGTA A/G 2,075 0.057 0.213
0.492 0.109 6.2% 194 30.9% 152 84.5% 58 70.0% 80
NA 0 6.5% 62 0.0% 40 8.7% 92

0.0%	40	NA	0	25.7%	74	35.9%	78	84.5%	58
	70.0%	80
CV431015	AB_ASSAYS_ON_DEMAND	3	150.8855	144881439
	forward LGD
TAAATCTATTTTCTTGATATGCACATTCATTAGCCTTTCAAACACTGAGGGGGGAGTCCTTCGAGGCACCACAGT
AGTTTGCAGTAAAGTTTCATCTATA[G/
T]CTTCTTTGAGATTCAGAATATAGTTTATTCATTTATTTAGTTTACTTATCCAAAATATAGAGGCTCTTTTCTT
TATTTTTCTTTTTTGATACAGTCTTCC	G/T	67	0.366	0.009
0.639	0.022	13.4%	194	94.9%	156	100.0%	58	84.6%	78
	NA	0	12.9%	62	5.0%	40	17.4%	92
19.0%	42	NA	0	98.7%	78	91.0%	78	100.0%	58
	84.6%	78
rs1381761	TSCAF	3	154.1176	149038204	reverse MIT

AAAAACTCTGAATGTAATTAAGTTAGCTGGAATTGTAAATGTCCTAACCACCCACCAGTATCAAGAGTAAATTAT
TTGTAGAAGATTCAATTAGCACTAC[A/
G]GTGTTTCATATAAATGACTGACTCTCAATGAAAACTAAATTATATACTCTGAGATAAAACAAATGAATGAAAG
CCAAGAGAAAAAAGAGTCAATAGAAAC	A/G	1,871	0.08	0.012
0.205	0.009	49.3%	298	87.8%	262	96.3%	54	95.0%	80
	50.9%	106	48.5%	66	39.5%	38	52.3%	88
47.6%	42	89.3%	112	89.7%	78	83.3%	72	96.3%	54
	95.0%	80
rs3772616	AB_ASSAYS_ON_DEMAND	3	155.9108	149759100
	forward LGD
CAACAGATCAGAAGAAAACATGGGAGAATGTATTTTTTCATACCAAATTATTAAAATTCCATCATCTAAATAACT
TCCTATCATAGCATGTTGTCGACCT[C/
T]ATTTTTCAAATCCATAATTTTAGAACTTATGTCGTGGGGTAGTCTAAAAGCCTCTTGCAAACTTTTAACATCT
AGTTTCAAATCAAAAATAATATATTAA	C/T	734	0.214	0.050
0.120	0.000	84.8%	198	21.4%	154	46.4%	56	19.2%	78
	NA	0	87.9%	66	85.0%	40	82.6%	92
81.0%	42	NA	0	25.0%	76	17.9%	78	46.4%	56
	19.2%	78
rs3816570	APPLERA_RESEQUENCING	3	156.5038	150081194
	forward MIT
TCCAAAACAAGAATGAAAAGCAGAAAAGCAACTCTAATAAAACCAAGAGAGATCTATAACAATAAGGCACAATAT
ATGAGAAATGGCTGCCAATTGCAGT[C/
G]TAAGTCAGATAGGAAGATGCTGAGAGGGATGACTGCAGATCTCAAACAGAGCTGCCAAAACACAATTCTTTAA
AATGGATGGCATGCCCTGAGGGGAAAA	C/G	1,981	0.048	0.014
0.023	0.007	66.1%	192	34.5%	142	48.3%	58	25.0%	80
	NA	0	75.0%	64	75.0%	36	56.5%	92
73.8%	42	NA	0	37.1%	70	31.9%	72	48.3%	58
	25.0%	80
CV2726149	AB_ASSAYS_ON_DEMAND	3	157.6932	150547938
	forward LGD
GCACCTCTCATGAAGAGAACTGCACATAGCAGCCTGCACTTATTCCTATGCTTTTTATTTCCCAAGTCATTCTAT
TTAGTGGTTTTACTTTGTCTGTGTG[G/

T]AAGAGGCCAGAATGCAGAGACAGGCTTCTATAATCCTCAGAGTTAAAAGAAAAGAAAAGGCAACTCCCTGTGA
TCTCTGCCTTCTGTGATGGGCTGATCC G/T 1,003 0.18 0.072
0.079 0.026 67.9% 196 8.8% 148 34.5% 58 22.5% 80
NA 0 68.8% 64 60.0% 40 70.7% 92
61.9% 42 NA 0 6.6% 76 11.1% 72 34.5% 58
22.5% 80
rs6800064 AB_ASSAYS_ON_DEMAND 3 160 152247677
forward LGD
TATGGGCTTCCCTTGCCATGCTGATACCATGGGAGTTAAGGCTGGTGACACCTGGAGGCTGATAAAGAACAAATT
TACTCCCTTGTCTTAAGTCCTGTGT[C/
T]GCAGGTCCCCAAAACACATGATACAATATTTAGGAAGTGGAGTGAAGTGGCTAGTGGCTATGACTGTGACCAT
GAGAGAAGCCATAGAATCATACAATGA C/T 1,410 0.167 0.027
0.119 0.074 21.9% 196 79.5% 156 62.1% 58 48.7% 78
NA 0 18.8% 64 25.0% 40 22.8% 92
23.8% 42 NA 0 82.1% 78 76.9% 78 62.1% 58
48.7% 78
rs1439026 AB_ASSAYS_ON_DEMAND 3 161.6802 153872222
forward MIT
AAATGTTTCATGTTAAGGCTCAGAATCATAGACTCATATAATCAGGAGATTGGAAGGAAACACAAAAAGTAAGAC
TTTTCAAGACAACCTCATTCACACT[C/
G]TTTACTTGAATTATTTACTCTTGTTTTATTATTAATTTTTATGCTGTTCAATTGACTACAATTCAAAACCCAG
TGTATTCATACCATGTGCTAAGATATG C/G 182 0.299 0.003
0.415 0.007 21.6% 194 96.2% 156 94.2% 52 100.0% 80
NA 0 31.8% 66 10.0% 40 19.3% 88
7.9% 38 NA 0 96.2% 78 96.2% 78 94.2% 52
100.0% 80
rs181696 AB_ASSAYS_ON_DEMAND 3 163.7133 156587017
reverse MIT
AGTCTGAGGCACTCATGGGAAAGGGTGGCAACAATGTGAACTGCAAGTATTTCAAGAGCATCTGAGATCCATTTG
CTAGTAGTAATGTTGTTTAGACATT[A/
G]AGGAGCTGCCTGGATCTGCGGACCAGCGCAACCCCATTTAAAGCAAAAACAAGGCAACTGATTTATTGTGTTC
CTTTACTATCAGAGCAATCTCTGATTG A/G 552 0.236 0.130
0.054 0.186 11.7% 196 76.9% 156 34.5% 58 26.3% 80
NA 0 13.6% 66 10.5% 38 10.9% 92
9.5% 42 NA 0 69.2% 78 84.6% 78 34.5% 58
26.3% 80
rs7629523 APPLERA_RESEQUENCING 3 164.05 157025707
forward LGD
CCAACAAACTATTTAGAATATTCAGGGAATTCTAGCATACAATTCTAACTTGCAGCAAGAAAAAGTCAGAAAACA
CAGAATATTAATAAGTAGTTAACAG[A/
G]AAGGGAAACTTATGTAAGCATTATATCTCTTAAGTGAATGTAATACGAAAAATGAATTTAGAATAAATTAACT
CAATTTTCTCAGAATCCGGTTGACAAA A/G 1,699 0.146 0.043
0.060 0.017 7.1% 196 53.2% 156 28.6% 56 37.5% 80
NA 0 1.6% 64 2.5% 40 13.0% 92
9.5% 42 NA 0 59.0% 78 47.4% 78 28.6% 56
37.5% 80

rs1520698 TSCAF 3 165.4072 160615630 reverse MIT

ATAGACTGCTTTTGGCAATACAGAAGTCTAGATTTTATATGTGTACCTTTAAGCTACAAAGCACTTAGATAAGTT
GATAAAATGCAAGAAACACCTTCTC[C/
G]AATGTTTATTTGAGATCACCGGAATATAAGGGAAATACAGAGGCAGAACCAAAATATAAATAGTAAGTGGATA
GAGGCAGCTGTTCTCAGGTTAGTTGCC C/G 1,378 0.186 0.036
0.133 0.082 69.9% 326 10.1% 288 26.8% 56 38.5% 78
67.4% 132 71.9% 64 60.0% 40 76.7% 90
75.0% 40 11.1% 144 5.7% 70 12.2% 74 26.8% 56
38.5% 78
rs1978831 AB_ASSAYS_ON_DEMAND 3 165.4583 160634559
forward MIT
CTACCATGAAAATGCATGGCTTTCATTTGTTGTTCACTAAACTGAACTCATCTGTCCTCAGAACGAACCAAACAA
CACAACTGAGAATTCAGGAACCCAG[A/
T]TAGGTTTCATGGCAGAGTAGAAATGAGCCCTAGGCCAAGGACTTCATGACAAAAACACCAAAAGCAATGGCAA
CAAAAGCCAAAATCGACAAATGGGATC A/T extended_map 0.317
0.002 0.472 0.045 77.3% 198 1.4% 140 1.9% 54
14.5% 76 NA 0 77.3% 66 77.5% 40 77.2% 92
85.7% 42 NA 0 1.5% 66 1.4% 74
1.9% 54 14.5% 76
rs6805934 AB_ASSAYS_ON_DEMAND 3 165.5086 160648269
forward LGD
GAAGTAACTCCTGTGTTTTAGCTGAGTGTGTGGCCGCTTAGCTGAAGTATTTCTCGTTGGCCTTCCTGGCAGCTT
GATGTGGCCTCGTGACTAAGGTTCA[A/
G]CCAAAAAGATTGTAAGTGATAAGTGCCACTTTCAGAATGTGCCCCCTAAAGAGCCTGATATGAGTTCCTCCAG
CCCTGTCCCTTCCCACTAGGTGGGAGA A/G extended_map 0.244
0.000 0.368 0.006 85.2% 196 17.5% 154 15.5% 58
25.0% 80 NA 0 86.4% 66 90.0% 40 82.2% 90
90.5% 42 NA 0 16.7% 78 18.4% 76
15.5% 58 25.0% 80
rs7628548 AB_ASSAYS_ON_DEMAND 3 165.6945 160720407
forward LGD
TATATTTTTGTGCCTGAATAATAGTCCATGGAGTCACTTATGTACCACAGAGTTTACATGTTCAGGAGAGGTTTC
CCTTTTTCCTGGGCTATTTCCCTCA[A/
T]CTTTTCTTTGCATTGGACCTCTTATCAGTTGGACTTTAACCAAAATCTTCCAATGTAGATTAACTTGGTTTAA
CTCAACGTTAACTTAGGTTAACTTGGG A/T 1,919 0.163 0.085
0.051 0.019 68.2% 198 11.5% 156 41.4% 58 23.7% 80
NA 0 66.7% 66 72.5% 40 67.4% 92
66.7% 42 NA 0 5.1% 78 17.9% 78 41.4% 58
23.7% 80
rs1920658 AB_ASSAYS_ON_DEMAND 3 166.356 161678559
reverse MIT
TTTCCCAAACTATGTCTAGCCACATTGTCTAATATAAGGTTTGGCAATGATGAAAATAACAATATAAAAATACTC
CAATAATAAAACTGCCAACAACAAA[C/
T]AAAGTCCCAGATTTGAATATTAATTGCCTTCTTAGATGGATTTTCCTGGGAGGAAATTAAAGTTAAAAATTAA
ATCTCAATGGAAATTAGTCCAAGGATT C/T 2,150 0.052 0.044

0.219 0.039 12.6% 198 40.4% 156 65.5% 58 64.1% 78
NA 0 13.6% 66 5.0% 40 15.2% 92
2.4% 42 NA 0 38.5% 78 42.3% 78 65.5% 58
64.1% 78
rs1037888 AB_ASSAYS_ON_DEMAND 3 166.4964 162096164
forward MIT
CCTGCCTGATCTGATGAGCTTTGAGAATCGAGTGCCAGAATGGGTAAGAAAACACTTCACGACTCATAAAACAGA
CCAGAAGTGTAAGGTTTCATTGTCA[A/
T]CTTTATTGTTATACAAAGGGGTACTATGAAGAATCATAGTAATCTTGGGCGTTAATTTAATAGAAAGCCCGGG
AGCACAGGGTCACCAACAGCCCAGATT A/T 1,982 0.174 0.176
0.003 0.135 98.0% 198 54.5% 156 96.6% 58 92.5% 80
NA 0 98.5% 66 95.0% 40 98.9% 92
92.9% 42 NA 0 53.8% 78 55.1% 78 96.6% 58
92.5% 80
CV2907471 AB_ASSAYS_ON_DEMAND 3 167.9186 166845773
forward LGD
TCAAAATCTCTAACTTTAAAACAACTATGATCGATCATATTTTCCTTAAGAAATTATTACTTTTTTGGGGGGTTG
GTGGAGCGGAGTAGGAAATGTAAAT[G/
T]GTATCTAATTTTCATTTCCTTTTTAATTTTAGAGCTAAAATATTACAAAACTGAAGAAAATGTTTCACTGAGT
TCTTCATGTTAATTCATTTAAATTTTT G/T 1,096 0.256 0.003
0.396 0.001 6.1% 196 69.9% 156 75.9% 58 73.8% 80
NA 0 3.1% 64 5.0% 40 8.7% 92
4.8% 42 NA 0 67.9% 78 71.8% 78 75.9% 58
73.8% 80
CV359711 AB_ASSAYS_ON_DEMAND 3 169.27 169042561
forward LGD
TTATGAGACATGCTATGTATGCGTTAATAACAGATAAACAGAAATGACACTGAATTTCAAGCTCCATTAGTAACA
TACAGGGAATGGGGAGAACAAGGTC[A/
G]GCCAAGATGGTAAAGGACAAAAGGATTTCATTTCCAATTATTTAAAATAGTGTACAAATGTAGCAACAAAGAT
AATGTTGAGTGCTTGCCAATTTAAAAT A/G extended_map 0.134
0.024 0.098 0.003 63.1% 198 11.8% 152 25.9% 58
16.3% 80 NA 0 66.7% 66 57.5% 40 63.0% 92
59.5% 42 NA 0 12.2% 74 11.5% 78
25.9% 58 16.3% 80
rs721128 AB_ASSAYS_ON_DEMAND 3 170.3654 170105001
forward MIT_and_LGD
CCCCTATTGTTAAAGTTATCGATAATGTTTTTCTGGTTTTGTCCATTTGACACTTGACCAATCCCTCCTCAAAAC
TCTCCTCTCTCAGTGTCACATGACC[A/
G]TCCCAGTTTTCTCCCTTTTTCTCTGCCCTTTCTTATTTGGCTTTCTTGGGTGCTTAGTGTGTCATCAGTCATT
GAAATAGTAGAATTTCCCAGAATTTCT A/G 897 0.241 0.083
0.080 0.081 98.5% 336 45.8% 310 79.3% 58 78.7% 80
98.6% 138 100.0% 66 100.0% 40 96.7% 92
95.2% 42 42.2% 154 43.6% 78 55.1% 78 79.3% 58
78.7% 80
CV3158593 AB_ASSAYS_ON_DEMAND 3 170.5509 170316020
forward LGD

AAGGGTATTCAAGGGTATTCAAGAATAGTTCATTTTCTTCTTGACTCCGTAAGCACAGGAGGAGCTCAAACATAC
TACCTCCCTGAAAACAAAAAAGGGA[G/
T]AAGAAACACTTTCTTACTTAAGAAAGAAAAACTTAAGAGAGAAAAAACAAAGTCGAATGAGCATAAACTGTCT
CATCAGGTTCTAATTCTTCTGTTTCTA	G/T	18	0.444	0.002
0.592	0.084	7.6%	198	94.8%	154	93.1%	58	69.2%	78
	NA	0	4.5%	66	12.5%	40	7.6%	92
14.3%	42	NA	0	96.2%	78	93.4%	76	93.1%	58
	69.2%	78
CV3158592	AB_ASSAYS_ON_DEMAND	3	170.5509	170316095
	forward LGD
TACCTCCCTGAAAACAAAAAAGGGATAAGAAACACTTTCTTACTTAAGAAAGAAAAACTTAAGAGAGAAAAAACA
AAGTCGAATGAGCATAAACTGTCTC[A/
G]TCAGGTTCTAATTCTTCTGTTTCTATGCAGAAGTTTTTTTCAGATAAATCTTAATGTAGCCTAAAACGAAAGA
ATTGTGCTCTATGAAGCAGAGGACTCT	A/G	extended_map	0.443
0.002	0.590	0.092	92.3%	196	5.2%	154	6.9%	58
32.5%	80	NA	0	95.5%	66	87.5%	40	92.2%	90
	85.0%	40	NA	0	3.8%	78	6.6%	76
6.9%	58	32.5%	80
rs1994962	AB_ASSAYS_ON_DEMAND	3	175.2088	173321369
	forward LGD
CCCAGCAGATAGGTGGCCTTTGCTCTATTCATTTGACAACCTTTTCTAAGTTAAAAGCAAATAAGAAAACCAACA
TAAACCTTCCCATAGGACTGAGCAG[A/
G]TCTCCTCTGCTGCCTTCTCTTTCTCCCATCCACCTCAAGGCCAACACCCCACCAGTATCAACCCCATGTTTTC
TTTCTCAGTGTCCTCTCCCTCAGGATC	A/G	1,191	0.221	0.036
0.139	0.054	91.7%	192	31.2%	154	53.4%	58	58.8%	80
	NA	0	98.4%	62	87.5%	40	88.9%	90
92.9%	42	NA	0	37.2%	78	25.0%	76	53.4%	58
	58.8%	80
rs1156615	AB_ASSAYS_ON_DEMAND	3	177.3407	173924595
	forward LGD
TTCTGACTTACCTTTCCTTTGATGGTTTGTCATAAATAGCTGCCTGCCTCCAGGTGTCATTACACTCCATCTTGA
CAATCTGCTGCTTGTCAAGATTGTA[C/
T]AATAGTCCTTTGTATCCATGTCCATGAGCCCAGGAAACTGCTGAGTGGATCAGGCCACTTGTGAAATATCTGA
TTGAACTTAGACTCCATCATATCATCT	C/T	extended_map	0.15
0.038	0.071	0.001	10.2%	196	59.7%	154	36.2%	58
62.5%	80	NA	0	10.6%	66	15.0%	40	7.8%	90
	9.5%	42	NA	0	60.3%	78	59.2%	76
36.2%	58	62.5%	80
CV1422110	AB_ASSAYS_ON_DEMAND	3	177.3711	173969080
	forward LGD
AAGGCTCTCAGCAGTGTGCATCTGCTTCACAATCTAGCCATGATTCTTACATTTTCTCTAGTATCAACCTTTATA
ACCAGCTCTGCTGATTTCACTGCCT[G/
T]TGCTTATCTGGCCTCTGAACTTTTGCTTGTGATTTTCCACTCAGAAACAACTACCTAGTCTCCCCATTTTTCC
TTTATTCAGTCTATCACTGTCCTTCCA	G/T	442	0.191	0.083
0.059	0.003	87.9%	198	29.5%	156	63.8%	58	35.0%	80
	NA	0	89.4%	66	82.5%	40	89.1%	92

85.0%	40	NA	0	30.8%	78	28.2%	78	63.8%	58
	35.0%	80
CV26426251	APPLERA_RESEQUENCING	3	177.5015	174160444
	forward LGD
AGTTCAGTGCTTTGCATAGAGTAGGCATTCAATAGATGTTGATCAATATGAATGCTGTGAATCAACAGCTAATTT
ACACATTCTTGTTTAAGAGAAACAA[A/
C]ATTGGATTTTTTTAAAAAGGTATGGACTATACCTTTGAAAAAGTTGTTTCTGAGAAATATTTCTGGATTTATT
TTTTGTTTTAAATTTGGTCTTGGGTGA	A/C	1,688	0.093	0.003
0.177	0.001	21.4%	196	64.0%	150	70.7%	58	60.3%	78
	NA	0	18.2%	66	23.7%	38	22.8%	92
26.2%	42	NA	0	68.4%	76	59.5%	74	70.7%	58
	60.3%	78
CV2823945	AB_ASSAYS_ON_DEMAND	3	178.4838	175201594
	forward LGD
CCTATAATTCAAGGAAGAGTCATCTGATTAAATGAGGATGAGAGAAAAGAAAAAAAATCGCTTTAATTCTATGGC
TACTCTCTGTCAGGCACAGGATTAG[A/
G]TAAATGAAATATCAGTTTTTATTGACACCTCTGAGAGGAAGATATATACAGCCTTTGTACACAGCCAGATTTA
AAGCCTAGAGACTTAGACTCACATCTT	A/G	extended_map	0.112
0.002	0.215	0.006	45.4%	196	90.9%	154	94.8%	58
96.3%	80	NA	0	48.5%	66	44.7%	38	43.5%	92
	42.9%	42	NA	0	94.9%	78	86.8%	76
94.8%	58	96.3%	80
rs7652593	AB_ASSAYS_ON_DEMAND	3	178.4842	175201900
	forward LGD
AAGTACTGTTTATATTAAGGTTATTATTAACTACAGGATACCACTGTCTACTAGACTAGATTTCTTTTTTCTAGG
TAGAATCGAAAATATTCTAAGAATA[A/
C]GAGCATCAACCTTATTCTTCAGGTTAGGAAGTTACCCACTTTAAAAATTTTTTCTCCTTTCATGAGATTCACT
GCCCATGGATATTTCTAAACTTAATTT	A/C	1,549	0.116	0.001
0.215	0.005	45.3%	192	91.4%	152	94.8%	58	96.3%	80
	NA	0	48.4%	64	44.7%	38	43.3%	90
42.9%	42	NA	0	96.1%	76	86.8%	76	94.8%	58
	96.3%	80
rs1931164	AB_ASSAYS_ON_DEMAND	3	180.6927	176818379
	forward LGD
CAAGTAGGATAATTAGTGGTATGAGTAGTATTTCTGTAAATAAAGTTTTATTTTGATGAAGCAAATATGCAAATT
AAGATTTGGGAATATCATGGGAATA[C/
T]AATGAAAATTAAGGTTTCTTGAAATGAAGAGTATGGTAACTTGAGAATATCAAGACAGGCTGCTGTGGAAATT
TTCAACAACCTTTAAGTAATACAAGGT	C/T	extended_map	0.073
0.014	0.046	0.051	67.7%	186	28.9%	142	42.3%	52
7.7%	78	NA	0	70.7%	58	80.0%	40	60.2%	88
	76.2%	42	NA	0	28.9%	76	28.8%	66
42.3%	52	7.7%	78
rs1931163	AB_ASSAYS_ON_DEMAND	3	180.7074	176829114
	reverse MIT
CTTATACCAAAAGATTGATAATGAGTGTTTCAGTTAAAATAAATAAAATGCTTTTTCAAGCATCTAAACATCTAC
TGGCTCTGCTTGTGTCACATAAAAG[A/

G]ATGTTTATTCTAAAGGCAGTATTTAGTCAAAGCTACTCCTAAAAACTGAGAAGGCAAATAGGTATCATCTTGA
GTTCCAACTCTCATGAACTGGTGGTAG A/G 565 0.166 0.019
0.127 0.044 82.8% 198 26.7% 150 42.3% 52 7.5% 80
NA 0 89.4% 66 90.0% 40 75.0% 92
90.5% 42 NA 0 29.7% 74 23.7% 76 42.3% 52
7.5% 80
rs900673 TSCAF 3 181.4772 177392553 forward MIT

ACATCCCTTGCCTTGTCACTCACTCAGCAGATACTAATTTACCCACAATGTACCAGGGAACATACAGCTGTTGGG
TCTTTGATGGCTCCTGACTTTGAGG[A/
G]AAGACAGGCAATTAAATTACAATATGATATGAGCTTCTTGGCAGTCCGTACTCTGTAGTCCTACATACAATAA
TAAAACATTATTTTTGCCCTATGCAGT A/G 1,212 0.098 0.000
0.147 0.000 63.8% 188 19.1% 152 19.0% 58 18.8% 80
NA 0 75.0% 64 76.5% 34 51.1% 90
68.4% 38 NA 0 19.7% 76 18.4% 76 19.0% 58
18.8% 80
CV2877709 AB_ASSAYS_ON_DEMAND 3 184.7291 180424698
forward LGD
TAAAAAACATACATCTTTAGGAATGAACTATCACCACCTAGCTGGTCTTTAATACTTCCTAAGCATTTTCACATC
ACAGCACACAAAGAAATATTTGTAC[A/
G]TTGAGGTAATAAGAAAACCCCAGGTGCCCTATCTAGCCTTCTCTGAATATCAAGGGGATCTGTCTTAAGTATT
AAATGTTATTTTTAGTAGTAGTTCTTA A/G extended_map 0.14
0.000 0.245 0.001 52.5% 198 98.7% 156 100.0% 58
100.0% 80 NA 0 48.5% 66 47.5% 40 57.6% 92
54.8% 42 NA 0 100.0% 78 97.4% 78
100.0% 58 100.0% 80
CV2877708 AB_ASSAYS_ON_DEMAND 3 184.733 180428457
forward LGD
TCACAAAAGTGCATGGAATTTTTTTTCTGTTCTTGATAATTTCTTACTTTGCGCAGGGCCCCAAGCATGAGTAAA
GTTTATTGTGCTTCTGAAGAAACAC[A/
G]CCCATCTTTTGTCTTTATGTAGCTTATTCATGTTCACAGCCATATAGCAGAGGTAATATCGTCTCTTGAGCCA
GGATAAAATGCAGCCCACTAGTGCCAT A/G 1,717 0.147 0.000
0.244 0.000 47.4% 196 0.6% 154 0.0% 58 0.0% 80
NA 0 51.5% 66 52.6% 38 42.4% 92
45.2% 42 NA 0 0.0% 78 1.3% 76 0.0% 58
0.0% 80
CV457091 AB_ASSAYS_ON_DEMAND 3 186.6687 183492176
forward LGD
TCTTCCTTTTTTTCTGAGTTATAGTACCTGCCTACTGCTACCCAAAATCCACAATTACCATTAATATCTTAATGC
AAAGCAATTTAGCCATTCTGGCTAA[A/
T]TTTCGCCTAATTGGACATAAGAAGATCTTCTTTTTCATCTCAAAACTTCTACCAACTTTTGTAATGTAATAAG
CCTTAAAAAAAAAATCGGGTGGTCTTT A/T 685 0.245 0.117
0.060 0.067 4.6% 196 64.7% 150 24.1% 58 33.8% 74
NA 0 1.6% 64 10.0% 40 4.3% 92
15.0% 40 NA 0 58.3% 72 70.5% 78 24.1% 58
33.8% 74

rs4859259 AB_ASSAYS_ON_DEMAND 3 187.7389 183985460
forward LGD
TACATCAAGAAGTAAAAAGGTTCCTAAACTGAAAACCTAAAACATGGATAAAAATTACTTATGCCTTTCTGGAAG
ACATGAATGCTGAGTAGGAATTGAA[A/
G]GAAACAGAAGAATATGGATTGGTAAATGTATGAAGGTATTTCATACATTCAGAAGAGCATTAAAAAAAGCTTG
GAGCTGGTCACAGTGGCTCATGCCTAT A/G 76 0.364 0.058
0.225 0.115 97.5% 198 24.0% 154 51.7% 58 63.7% 80
NA 0 98.5% 66 97.5% 40 96.7% 92
100.0% 42 NA 0 22.4% 76 25.6% 78 51.7% 58
63.7% 80
rs4859147 APPLERA_RESEQUENCING 3 187.7765 184002766
forward LGD
ACACTAATGCTGGCTGGATCGAGTGCCAGGTCATCACAGAACTGCTGTATGCCATCTATTCCAATTTTATTCTCA
TCTTGAGGGTCTTTAAAAATAACAA[C/
T]GCAATATTAAAGTAGTGTCATATTATGCTACATTATGAAAACTGAAAAAGGTAATGCTTTATATGCCATTTTT
TAAATGACCACAATATATGGAAGGCAT C/T extended_map 0.313
0.027 0.232 0.057 98.5% 194 34.0% 156 53.4% 58
62.5% 80 NA 0 100.0% 64 97.5% 40 97.8% 90
100.0% 42 NA 0 37.2% 78 30.8% 78
53.4% 58 62.5% 80
CV483313 AB_ASSAYS_ON_DEMAND 3 187.8746 184048010
forward LGD
AATCCCAGAATTTTCGTCTGGGAAGTTAACAAATTCCTCAGCAACGTTGAAACATATTATTTCTATTAAGGTTTC
AAGTGATTAGTCTTCTTCTGTAAGT[C/
T]AAACAGAGGATCAGTTAGTCTGGAGAAATGTTTTAATAAAAGTCCCATTCTAAATAGATTTTTTTTTTTTTT
TTGAGACAGAGTTTTGCTCTGTCACTC C/T extended_map 0.212
0.040 0.513 0.046 85.7% 196 23.0% 148 5.4% 56
47.3% 74 NA 0 84.4% 64 95.0% 40 82.6% 92
67.5% 40 NA 0 27.8% 72 18.4% 76
5.4% 56 47.3% 74
CV380397 AB_ASSAYS_ON_DEMAND 3 188.0349 184121905
forward LGD
ATAAAAGTATGTCAAAATGGCCACATTAAGAACAATTCTAGACTTTTAGAAAACTTCTTTCAAATCACTATACAA
GTGTTATTCAATGTCCTTTACTAGA[G/
T]GGCCAATAAGTTTCTTCTTTAAAGTCAACATTAAAGGAAGGTTTGCTCTCCTAATCGGCAAGTATCTTTTTAT
TAGAGGAGAACTTTGTAAATTATAACC G/T extended_map 0.344
0.210 0.064 0.085 94.9% 198 20.4% 152 74.1% 58
53.7% 80 NA 0 95.5% 66 100.0% 40 92.4% 92
100.0% 42 NA 0 21.6% 74 19.2% 78
74.1% 58 53.7% 80
rs959880 TSCAF 3 188.6589 184409526 forward MIT

CTGGCATATTAACTTTGTTTCCTGCCCTTTACTACAATTTACTTAAATTCTCGTGACATGTAAGACTTACTTGCC
AGTGCCACCATTTACTCTTAATAAA[A/
C]CCAAGGAGTGCCTTCTGATTTCAGGCCTCAGTTGGGTGCCCAAAATCTAGCCTCTCTGGTATCCTCCCTGAGG
GCTCTGAAGCAAATCTACCCTCCTTGG A/C 1,009 0.239 0.000

0.372 0.044 79.9% 318 12.3% 300 10.3% 58 32.4% 74
80.8% 130 78.1% 64 88.9% 36 76.1% 88
76.3% 38 11.3% 150 10.8% 74 15.8% 76 10.3% 58
32.4% 74
rs2300706 AB_ASSAYS_ON_DEMAND 3 193.1724 187280658
forward LGD
GTTTGCTTTCTCTTGCAAATGATCTGGTTTCCTCTTTCCTTTCATTTTTGAACCTAACTTGGTGACTTCACAGAG
TGCCCAGGCTGAGGCTGGGACTTAG[A/
T]GGGTTCCGGGTCTCCAGCCTTTGCAGGTACCTCTCTGCTGCTGCCCTCTGCTGTCGGGGGAGGCAAAGGAGAC
ACCCTTCTGGTCCTCCTGGTCCAAGTC A/T extended_map 0.193
0.076 0.568 0.022 81.6% 190 20.4% 152 0.0% 56
7.5% 80 NA 0 82.8% 64 82.5% 40 80.2% 86
88.1% 42 NA 0 18.4% 76 22.4% 76
0.0% 56 7.5% 80
CV2767943 APPLERA_RESEQUENCING 3 193.1772 187281327
forward LGD
TGTTTCTCTCTCATCACATGGAATCTGTGTGCAATGGAAGCGTCCTGAAAGTGAAAGAGACAAAGCAGATCCTTG
GTGAGTGGTCATGACAGTGCAGTGC[A/
G]GAGGGAAGGGACGCACGCATGCACTCGCTGAGTCATGCCAACCCTGGGACTCTATCTATCGCATGGTGGGGCT
CCAGGTCACATCCGCGGAGCCAACAGA A/G 591 0.225 0.077
0.622 0.022 85.4% 198 20.4% 152 0.0% 58 7.5% 80
NA 0 89.4% 66 85.0% 40 82.6% 92
90.5% 42 NA 0 17.1% 76 23.7% 76 0.0% 58
7.5% 80
rs2070635 AB_ASSAYS_ON_DEMAND 3 194.7812 187657089
forward LGD
GAAGGACCGGTGATGGATACTTGCCCCTCCTACAAGGAAGACACAACCCCTACCTCTAAAGCACAAGCACTTGAG
AACACAACCCCATAGCAACTGCCCT[A/
G]TGTAAGCCATTGAGGGACATGTCTTCTGGGCCGACGCATGGTCTGCATGAATGGTGCTCCCCGAAGGAGGCTA
CTTCCCGCTCTCCTTCTCTGCCCTTTT A/G 263 0.28 0.010
0.241 0.002 0.5% 198 57.1% 156 44.8% 58 62.5% 80
NA 0 0.0% 66 0.0% 40 1.1% 92
2.4% 42 NA 0 57.7% 78 56.4% 78 44.8% 58
62.5% 80
CV2684237 AB_ASSAYS_ON_DEMAND 3 196.945 188197497
forward LGD
GTGAGCACTTCTAGTCAGATAAGTGGTATTATCTCATAGCCTAGGTAAAGGATGTCTTTTTCCTGGGTTCCCTGT
TCCCTGTGTGATGCATATTATCACA[A/
T]CTTTTATTGTCTCACTAGATCCCATCTCATTTGTGAGCCACCTAAAAATTCCCTGTTATCAGAAACACACTTG
ATGTACGCTGAGTCTTTGCCCAACAGT A/T extended_map 0.229
0.009 0.447 0.007 29.1% 196 94.8% 154 100.0% 58
89.7% 78 NA 0 31.8% 66 17.5% 40 32.2% 90
25.0% 40 NA 0 93.6% 78 96.1% 76
100.0% 58 89.7% 78
rs2006377 TSCAF 3 197.1666 188252840 forward MIT

ATATCATTCAGTTTTCCACAAATGCCTGGTGTCCTTTCATATCTCCGCTTTCTCATATGCTACTCCCCATTGCCT
GGGATGCTCCTCCTCCTCTTGGTTT[A/
G]CTACTGCAAGGTAAAACAGTACCATTCTTTCCAGAAAACACTAGTGCAGAAAGGTCTTAGCAATGGTGTTGCT
ACTGAGAGTCACAAAATAGTTCTGGAC A/G 1,502 0.2 0.004
0.201 0.008 4.2% 332 55.8% 308 48.2% 56 66.2% 80
3.7% 136 1.5% 66 10.0% 40 4.4% 90
2.4% 42 53.8% 156 56.6% 76 59.2% 76 48.2% 56
66.2% 80
rs4686904 AB_ASSAYS_ON_DEMAND 3 198.1571 188759435
forward LGD
GGGCCACATGCCTTCATACTGCCCCATGAGCCGAGGAGAGAGAAATTGTTCGTGAAGCCAGAAAGCAAGATGGGC
CTTCTCACTTCCAAAACTGGGCAAA[C/
T]TGAGGTTCAGAGGAAGAAGAGATGCCTATCTATGTGTCAGCAGAGCTAGGAGGGAAGTCATTAAATGCTTAGC
CTAGGCCGGGCATAGTGGCTCACACCT C/T extended_map 0.153
0.049 0.424 0.056 8.6% 198 57.3% 150 82.1% 56
83.3% 78 NA 0 6.1% 66 5.0% 40 12.0% 92
16.7% 42 NA 0 56.8% 74 57.9% 76
82.1% 56 83.3% 78
rs3774303 AB_ASSAYS_ON_DEMAND 3 198.2009 188779034
forward LGD
CACACACACACCCGGTTTCTCGCCAGGCTACTATGCAGAGGATGTTAGGAAGGGGAAGAGAGCGATTTCAGAATC
GAGGCTCGCCCTGCAAGTCTTTGGT[C/
G]CAGGCCTTAACCCCCCTCTTAACACGCAAACCCCCGAGCTCCGAGACCCACACCCTTCAGCACCATCTGGGCT
TTTCGTGTCATTACCGAAAATCTTAGG C/G 919 0.247 0.002
0.267 0.002 3.0% 198 60.9% 156 55.2% 58 56.2% 80
NA 0 4.5% 66 2.5% 40 2.2% 92
7.1% 42 NA 0 62.8% 78 59.0% 78 55.2% 58
56.2% 80
rs3846193 AB_ASSAYS_ON_DEMAND 3 202.3144 189989078
forward LGD
CCCCTTCTTCTCAGCCCCTAAACAGTAGAACAGCCACTGGATATTGGAAATAGGTATCAGACACTAGAGAAGGTC
AGAACACAGCTGGTGCGATATATCA[G/
T]TTCCAGCCTCAACTGGACTTTTGGCCTTGCCCAATTTCTTTTTTTGTTTGTTTGTTTGTTTGTTTTTGTTTTT
GAGATAGAGTCTTGCTCTGTCACCCAG G/T 35 0.404 0.000
0.607 0.026 87.2% 196 2.6% 156 1.7% 58 12.5% 80
NA 0 92.4% 66 90.0% 40 82.2% 90
90.5% 42 NA 0 0.0% 78 5.1% 78 1.7% 58
12.5% 80
rs1055152 AB_ASSAYS_ON_DEMAND 3 203.0748 190359561
forward LGD
CATTCATTGGAAACCGCAACAAACTTGGCTATTCCCTTGCCCGTGGGAGTATTGGTTTTTGAGAGTCTTTTTGGT
ACCATAAGCATATCATCCACAGATA[C/
T]GTCACTTTGAAAATTCCAGTTTGACCCACGCTATTTTTGGACTGAAACAATTAATTATTTTTAAATGACGCTT
TATGATTTAGAAATTTAGTATTTCCGA C/T 1,287 0.187 0.022
0.132 0.043 7.1% 196 60.9% 156 43.1% 58 36.2% 80
NA 0 6.1% 66 5.3% 38 8.7% 92

11.9% 42 NA 0 59.0% 78 62.8% 78 43.1% 58
36.2% 80
rs1349921 AB_ASSAYS_ON_DEMAND 3 206.4954 192258983
forward LGD
CTAAATGATTATCAGGATACTTGTCGCAATTTGCTATACCTCTGTTCTGAAAGATTCTCAAAGCTACACTAGAAA
ATAAAATCATCATTTGAAGACCATA[A/
C]CTTATACTACATGTATGTGAAAAATAATCCTCTCCTATATTTTGAAATTTAGACCCTACTTTAACTAGAGAAA
TAGAAATTAGTTCCACTATGTTCTGGG A/C 597 0.161 0.007
0.316 0.002 22.7% 198 79.2% 154 87.5% 56 75.0% 80
NA 0 24.2% 66 10.0% 40 27.2% 92
14.3% 42 NA 0 79.5% 78 78.9% 76 87.5% 56
75.0% 80
rs6444535 APPLERA_RESEQUENCING 3 206.6616 192320903
forward LGD
GGTCGTCCATGCACAGATTGTAAAAAACTCAACACGGATAACAAAGTTAGGAGTCCAAAGCAAACAGTGCTTGAG
AGGATCTTGTTCATGTTAAAAAAAA[C/
T]CTTCTGGACTAGCAAAGAAACAGACTTTCCAGGTCAAGATGGATATTTCTATAGCTTTGGAATTCAGTAGAGC
TTAGTTGCAAAAGGCAAGTGTGCCTCA C/T extended_map 0.088
0.018 0.231 0.015 18.2% 198 58.4% 154 74.1% 58
43.8% 80 NA 0 15.2% 66 22.5% 40 18.5% 92
26.2% 42 NA 0 52.6% 78 64.5% 76
74.1% 58 43.8% 80
rs1994855 AB_ASSAYS_ON_DEMAND 3 208.989 193388479
forward MIT
TTTTCCAGACTAAGCATACTCAATTTTCTTCCTATTTTCAAAATGGAAATAATTTCCTTACTCATCCCTTGAATT
CTCTTAAATCATCTGTCATTCTCAA[A/
G]ACAAAATGCAAGCATGGTCCCATTAGCATTAATTTTTCAAGCTGGGCATTGTCACGCAAAGTCATATTCATTT
TTGATGGGGTTGTTCTGTGAATTCACT A/G 969 0.124 0.008
0.116 0.196 23.9% 180 73.7% 152 63.8% 58 21.8% 78
NA 0 14.5% 62 21.4% 28 31.1% 90
15.8% 38 NA 0 72.4% 76 75.0% 76 63.8% 58
21.8% 78
CV1437859 AB_ASSAYS_ON_DEMAND 3 209.3049 193561960
forward LGD
GGGACTAGAAATGTTATTTCTAAGTTGCAACAGGATATAGTCTTGATGCCTTGAGAATCAGAAGACCTAAGTGAA
CATCATAACTTCTCAGAGCCTAACA[C/
G]TAGAATGTTGGTACCAAAAGGAGTTCAAGTATTGATGATCATTATCCTCTAGGATGAAGGGATGCATGAGGAA
ATGATAAGAAATTTCCAAAGTGCCATA C/G 1,829 0.05 0.001
0.093 0.008 45.4% 196 14.9% 154 12.1% 58 7.5% 80
NA 0 45.3% 64 57.5% 40 40.2% 92
59.5% 42 NA 0 12.8% 78 17.1% 76 12.1% 58
7.5% 80
rs4677637 AB_ASSAYS_ON_DEMAND 3 215.9219 195794436
forward LGD
GTATCTCTGGGTAAGGTCCGCATTGCCTGAGCCCCTTGTCAGAGCACCTCCAACGTATGGGCAGTGGCTATGTCA
TCAGTGCCCTGAAGGATAAAATGTC[A/

G]CCTTGTGGTGAGCGTGGGAAGACAGCCCTAGCAAGAGGCGGAGAAGGCACAGGCCTTTCCTGCGTTTGGGTGT
CTCACAGGGTCCGTCTGGCTGCAGTGT A/G 355 0.216 0.171
0.022 0.108 88.8% 196 27.0% 152 75.9% 58 65.8% 76
NA 0 90.9% 66 92.5% 40 85.6% 90
88.1% 42 NA 0 23.7% 76 30.3% 76 75.9% 58
65.8% 76
rs1060357 AB_ASSAYS_ON_DEMAND 3 219.7111 198055154
reverse MIT
CGCTGGATTGTCAGGTGGCAGCAGGGGACCCCTGCTGTGTCAGTGCTAATGAAACATGTTGGTTGGTTTCTAAAA
TAAAGCCAAACAAGCCAGCACATGC[A/
C]GAGGCTTGGACCCTGATAGAAACTTCTGCTGCCGATTTCTTTCGTTTTGTTAGGCACTCAAAGGCCTACCTGC
TCCACCGAGAAGGGCAGATTCCATTCT A/C 1,192 0.152 0.036
0.085 0.000 21.7% 198 76.6% 154 55.2% 58 78.7% 80
NA 0 28.8% 66 22.5% 40 16.3% 92
23.8% 42 NA 0 78.9% 76 74.4% 78 55.2% 58
78.7% 80
CV9470270 AB_ASSAYS_ON_DEMAND 3 220.4399 198398286
forward LGD
CCACCCTCCCCGATCAGGCTAGTCAAACCTATGTGCTCACTGCTCACCCGCGTGCCCAAATTCACCTCTCATCTG
TGCTGTTCACATGTGCCCCACTGAC[A/
G]GCTTTCTTCCCTAGTCCCTCCGCCACTTCCTTTCAGCCTCTGCCCACATGCGTATGTGGGAACACAGGCATGC
ACACATGCACATGTCACATATACACTG A/G 873 0.182 0.112
0.032 0.020 89.9% 198 34.4% 154 74.1% 58 51.2% 80
NA 0 93.9% 66 97.5% 40 83.7% 92
88.1% 42 NA 0 39.7% 78 28.9% 76 74.1% 58
51.2% 80
CV3214415 AB_ASSAYS_ON_DEMAND 3 220.8048 198583244
forward LGD
TTTCTTTTACTTGTTTATATTATTGAAATTTTACGTTGGGTATCAAATATTACAAAGATATCAACATAGTATGGG
AAATTCCTCCCCTGGGTTCCTACTG[C/
G]CTTGAAAATAAAGAAAAATGTCTCACCCACCGAGCAGAGAAAGCAAGTTGTCCTGAATGCCCACTCTTCCCTT
CATCCTTCTTCTATAGCAGTAGAACGC C/G 1,534 0.122 0.013
0.097 0.009 19.7% 198 68.2% 154 55.2% 58 78.7% 80
NA 0 22.7% 66 17.5% 40 18.5% 92
23.8% 42 NA 0 71.8% 78 64.5% 76 55.2% 58
78.7% 80
rs7631002 AB_ASSAYS_ON_DEMAND 3 221.5938 199003879
reverse LGD
GACAACTGCACACGAACAAAAACATCGTTTCACTCCGTTCAGGCCCAGGAATTTAACTGGGATAACCCGGGCAGC
CGTTCTCCGGGTGTCAGGGGACCAA[A/
G]CACCATCAGCCCAACATCTCCTCCATCCTGTTCTCCCTCTTCTTGAAACCCGTAGAAATCAATGGCTGGCAGA
GACTCCGATACGCACCGGCGACTCGCC A/G 680 0.187 0.116
0.633 0.023 86.2% 196 27.6% 152 0.0% 58 12.5% 80
NA 0 87.9% 66 90.0% 40 83.3% 90
85.0% 40 NA 0 30.3% 76 25.0% 76 0.0% 58
12.5% 80

CV470126 AB_ASSAYS_ON_DEMAND 4 1.6289 1275351 forward LGD

GTTTGTCACTTCTGGTACTGGCTGGTGAATGTGGGAAACACTAGATAGGAAAAGTTTCCAGAAATCCTTTCATTG
TGTATTGAAGGAACTAGGAAGGGAG[A/
G]TGGAAGGTCTCCGGAAAGGATTCTTCTTCAGGTCTTCTACTGTTTTGTAATCGTGAATGTAATTTGTATTCCA
GAGTGATTGCATAGCTTCTGATTAAAA A/G 1,223 0.118 0.079
0.016 0.199 9.1% 198 51.3% 156 19.0% 58 5.0% 80
NA 0 4.5% 66 10.0% 40 12.0% 92
2.4% 42 NA 0 50.0% 78 52.6% 78 19.0% 58
5.0% 80
rs487903 APPLERA_RESEQUENCING 4 2.4177 1863548 reverse MIT

TCCACCAACATATACTTAAAAGAGCTAATATGTGTGAGGCAGCTGGCATAATGCCAGGCCTATGCAAAAGGACAA
CAGGGAATAGCATAAAAGCAAAATC[A/
G]ACACTAACAGGAAAAGAGCTCATCCCAATCCCTCCTGTTACAGCTGAGGTATCAGGCAGAGGCTCAGAATGTG
CCCAAGATGACCTGGTCAGCAAAGTCT A/G 439 0.192 0.000
0.264 0.072 17.9% 196 78.7% 150 77.6% 58 98.8% 80
NA 0 23.4% 64 20.0% 40 13.0% 92
19.0% 42 NA 0 82.4% 74 75.0% 76 77.6% 58
98.8% 80
rs382939 AB_ASSAYS_ON_DEMAND 4 2.6276 2020114 forward LGD

ATCAGCTTTCTCTCTTTGAAATAATACCAGGAAGGCCCTGTGCCTGGATGAAGGAGCCTCCAAACCAGCTCCCCT
TAAAGGCGATATTCTTCATTATTGC[C/
T]GAGACCCTATAGAGCTTCTCACTGCACATTCTAAATTAATTAAGGATTCTGTTAACGGCGAGTTCTCAGGAGA
TGAAGACATGAAAGTTCAAGGTCTCCA C/T 791 0.161 0.008
0.180 0.029 35.4% 198 91.0% 156 84.5% 58 76.2% 80
NA 0 25.8% 66 37.5% 40 41.3% 92
30.0% 40 NA 0 92.3% 78 89.7% 78 84.5% 58
76.2% 80
rs2022302 AB_ASSAYS_ON_DEMAND 4 2.7848 2137372 forward LGD

CATGCAGGAAAGAGATGGCCAGTACAAACCATCTGGAATAATAACTTACCCCAAGAAGTGCTGACGTCTTCTCCA
TCTCCTCTTTGTTCACCTGAATGGC[A/
G]TGGCTTTCCATCACTGTGATTCGAAACCCAAACCAGATCATATTTGCATTAATGTATTCTTTTTACTAAAGAC
TAAAATGCTTCGCTCCCTGATGAGGAC A/G extended_map 0.127
0.045 0.065 0.121 56.1% 198 7.7% 156 25.9% 58
42.5% 80 NA 0 63.6% 66 45.0% 40 55.4% 92
61.9% 42 NA 0 7.7% 78 7.7% 78
25.9% 58 42.5% 80
CV25929650 APPLERA_RESEQUENCING 4 2.899 2222546 forward LGD

CAGACTGCCTCGGGGCACCTCCAGACCCAGCCCTGAGGCCTCTCCCTGCCCTCAGGACCTGGCTCCTTCCTGAAG
CTTCTTGCTGACCACTGCCTGCTTC[A/
G]GGAACTTGGGATCTGGCGTCTCCTGTCCCAACCACTCAGGCCAAGGGCCTGCCCCTCCCACCCGCTGCACCAA
CAGGCCCTGGGCCTCCTTGTGTAGCCT A/G extended_map 0.096

0.018 0.071 0.092 51.5% 196 9.6% 156 20.7% 58
40.0% 80 NA 0 60.9% 64 50.0% 40 45.7% 92
50.0% 42 NA 0 10.3% 78 9.0% 78
20.7% 58 40.0% 80
rs878544 AB_ASSAYS_ON_DEMAND 4 8.9884 5397100 forward MIT

TAAGGCCTAGACTTGGATGTCCCATAACACCACTGCATTCAAGAGTTGCAGAAACAAGCTCCATATGGAGAGCAG
CATGCATATGCAGGGAATGGAGGGA[A/
G]TGTTTGGGAGGGGAGTGTGTCTTTGGAGGCTAGCTCCTACGAACAGTGACACCATCTAATTAAAGCACCTGCT
AAAAACGGATGAAGAAACATGCTGGAG A/G 760 0.146 0.285
0.002 0.029 52.8% 180 3.3% 152 58.6% 58 14.5% 76
NA 0 56.2% 64 42.3% 26 53.3% 90
55.0% 40 NA 0 3.9% 76 2.6% 76 58.6% 58
14.5% 76
rs7670828 AB_ASSAYS_ON_DEMAND 4 9.2379 5474924 forward LGD

CCTTTTATAGCAATGCGAGAACAAACTAATGCACCCTCCTCGTGGAAATTGAAAGTGAAGGACAATCCTTCCCTC
CTATATTGCTGCTAACACTAGGTCC[A/
G]ATTCCAGCTCGGCCTGGTAAGAATAATCTTAATTATGCACTGTTCCCAGGACAGTATTTGATACTGATCTGGA
GAAACATGTGACCTAGCCCCTGTCTTC A/G extended_map 0.121
0.130 0.005 0.003 28.4% 194 77.9% 154 35.7% 56
83.3% 78 NA 0 21.2% 66 42.1% 38 27.8% 90
28.6% 42 NA 0 71.8% 78 84.2% 76
35.7% 56 83.3% 78
rs3774883 AB_ASSAYS_ON_DEMAND 4 10.572 5891139 forward LGD

TGCAACCCATGCAACGCCTCAAAGAGTTTGCAGGACAAAATTCCAGTTCAACTTTCTCAACGTGTGCGTGCCTGC
CCTCATGTGGCCATCTCACCAAATC[A/
G]CAGATACACTGCCCTGAGACCTTAAGAAAGTCAGGAGGGATCAGGTCAACATCTAATTTTGTTCCCACACATT
TGTTGAGCACCAAGTCCTGGTATTTTG A/G 1,025 0.187 0.096
0.051 0.012 81.3% 198 21.2% 156 56.9% 58 32.5% 80
NA 0 84.8% 66 85.0% 40 77.2% 92
97.6% 42 NA 0 17.9% 78 24.4% 78 56.9% 58
32.5% 80
rs908013 TSCAF 4 11.7788 6267609 reverse MIT
ATTCTCAAATATGTCCCGTTCACAGCAGTCAGGGTGTTCCCCCATGCTGCTCCCTTTGGTGGGTGCTCTTCCCTG
CCTTCTCCTTGCTAGAAAGTAAGCT[C/
G]TGGTGGGCAGCCGCTTCCTCTCTGCTGTTCACTGTGGTGTCCCCACATCTTAGTGACTACCTGGCACACAGCA
AGTGCTCAATAAATATTTGTCTAATGA C/G 1,830 0.095 0.019
0.067 0.031 45.5% 288 87.8% 230 75.9% 58 71.3% 80
48.9% 92 46.9% 64 55.0% 40 37.0% 92
45.2% 42 81.2% 80 90.5% 74 92.1% 76 75.9% 58
71.3% 80
rs755403 AB_ASSAYS_ON_DEMAND 4 12.3769 6454184 forward MIT

AAAAAGAGTGAAGGGCAAAATAAAAAGACATTTCAGCTGTAACTTTCCCAAGGACCAGCACTTTCATCTCAGAAC

AATCCCATCGACCAATTATCATTCC[C/
T]TACTTAGAGACAAGGAAACTTGGTCAAACTTTCCCAAAGTCCCCTAAGTGGCAGGGCCTTTGGCATGTGCTCT
TTTTGGCCATCGCTGTCCCCACACTGC C/T 1,479 0.138 0.000
0.178 0.001 12.0% 324 60.1% 306 58.6% 58 56.2% 80
9.4% 128 9.4% 64 15.0% 40 16.3% 92
14.3% 42 62.5% 152 61.5% 78 53.9% 76 58.6% 58
56.2% 80
CV1214441 AB_ASSAYS_ON_DEMAND 4 13.9566 6842412 forward LGD

GTTTCCTAATTTTCTCAATGAAGGAGAGTAATAATGCCACCTGGTGAGGGGTGTTATTTTTTGCGAGTACTTTTG
AGTATTAAGTGGTGTAGGGACTCTT[C/
G]TTCTTCCCCAGTTCTGCACTGCTGGATCACATGGCATCAAGGGAACAGAGATGGGGAGTGAAGTGAACTAGCT
CCATTGTATTCTGGGTATGCCCCTTCG C/G 557 0.231 0.006
0.403 0.067 89.4% 198 25.6% 156 17.2% 58 3.7% 80
NA 0 97.0% 66 82.5% 40 87.0% 92
80.0% 40 NA 0 20.5% 78 30.8% 78 17.2% 58
3.7% 80
CV1214313 AB_ASSAYS_ON_DEMAND 4 15.4205 7157929 forward LGD

AGAATGCCTTAACCATCTGGGAATGCAGCCCAGTAGGTTTCAGCCTCATTTTACCCAGCGCCTATTCAAGATGGA
GTTGCTCTGGTTCACACACCTCTGA[C/
T]AAGAGCATTATCACTTATAGCAAGGACTTGAAACAGCCGGCATCACAGAGCATGCTGGGGCAGGAAGTTAATG
ACACAGAAAATCTGGTACAGTTTTGTG C/T 1,776 0.091 0.045
0.029 0.050 39.8% 196 82.7% 156 60.3% 58 58.8% 80
NA 0 37.9% 66 35.0% 40 43.3% 90
42.5% 40 NA 0 88.5% 78 76.9% 78 60.3% 58
58.8% 80
rs2285789 AB_ASSAYS_ON_DEMAND 4 18.0763 7720396 reverse MIT

GGGGTGGGGAAGTGCTCTCACCAGAACACGTGGTCTTTGGTCACTCGCTCTTGCAGAAGTGTCCACTTTTTCCCC
AAGTCAGATGACACGTAGAGCTTTA[A/
G]GGCAGAAAAAAGAAACAAAAGCTTGGTCAGGACGTCAGGAATAAGCTGCTTCTGAGAGAGGGTGATGTCTTCA
CCACAGCAGATCCCCCAGGAGAAGTCA A/G 270 0.254 0.006
0.424 0.074 93.4% 198 29.5% 156 20.7% 58 5.0% 80
NA 0 95.5% 66 95.0% 40 91.3% 92
90.5% 42 NA 0 34.6% 78 24.4% 78 20.7% 58
5.0% 80
rs1281150 AB_ASSAYS_ON_DEMAND 4 21.3081 8422665 reverse MIT

CCGCATGCAGGCACAGGGCCCCGAAGTTGGCCAGCCCCACTGCCTGGTTCCTTTGCTGGCCCAGGTCCCGAGCCA
CCCGCAGGGCGCGGTAGTAGCTCTC[A/
G]GCTGCCTGCCTCGTCCGGCCCGTCCTCTTCAGAGCCACGGCCACCATGTTGGCAATCACGCCCTCCTGGTCCT
CGCTGGCCACCACTGCATCCCGGACAG A/G 1,049 0.138 0.113
0.016 0.051 27.3% 198 80.1% 156 41.4% 58 55.1% 78
NA 0 25.8% 66 32.5% 40 26.1% 92
35.7% 42 NA 0 80.8% 78 79.5% 78 41.4% 58

55.1% 78
rs940135 AB_ASSAYS_ON_DEMAND 4 21.4372 8576861 forward LGD

CGAGCATGTGAGGGAGGGGTGCAGACCACCCACATGTGGAGGCCACGCTCACACCCACCCCCTGCCCAGGCACAG
AGGGCCTGGCGCCCAGACACGAGGC[A/
G]CCTCCAGGCTGCAGGGGCCTTCTGCCTGGCAGCCGGTCTTGCTCAGAGATCCCAGGCAGGAGAATGGGGATCA
GCCACACTGAGTCTGAGCCCAAAGGCT A/G 492 0.18 0.068
0.532 0.001 82.0% 194 23.0% 152 1.8% 56 19.2% 78
NA 0 77.3% 66 82.5% 40 85.2% 88
73.8% 42 NA 0 20.5% 78 25.7% 74 1.8% 56
19.2% 78
rs6817298 AB_ASSAYS_ON_DEMAND 4 21.6071 8779928 forward LGD

GGCTCCCTGTATGTGGGGGTGACAGTGTACCTGATGTGCATGTGCTGGCCGGTGGCAAAGCCCTTTCCGGACTAT
CACTTACTGTAACTGGATCCTCACC[A/
G]CAGCCTGGGGTAGGTGGTTAGAGCCATGACTGCCTTGGATCTGTGTCCCTGCCCTGATTTTTGGATTCTGGAT
GCCTCTGCTCTGGCTGTGCCCCTCACC A/G 727 0.177 0.000
0.302 0.038 59.1% 198 3.2% 154 1.7% 58 16.7% 78
NA 0 54.5% 66 67.5% 40 58.7% 92
76.3% 38 NA 0 0.0% 78 6.6% 76 1.7% 58
16.7% 78
rs758973 TSCAF 4 26.4141 13290256 reverse MIT
CTCAGCACCAGCCAGGCCAACAATCCACTCTCCTCTACCCACATTTCAGTCCGTGTTTGGGAAGAAAATGTGGAA
TATGGCTTTCTCAACGCAAAGTTCA[A/
C]GAAGTTTAACTCGCTTTACAGAAAGGCTCCTGCGTTGCAGAGGGAATATGAACAACAGAGAGAATCAGACAGT
TCTCCTAAACCGGGGAACTGTCGAAGG A/C 168 0.297 0.052
0.670 0.039 91.0% 322 19.4% 310 1.7% 58 3.7% 80
94.7% 132 89.1% 64 82.4% 34 90.2% 92
81.0% 42 18.8% 154 24.4% 78 15.4% 78 1.7% 58
3.7% 80
rs6838908 AB_ASSAYS_ON_DEMAND 4 26.4804 13340095
forward LGD
TGGGTCTTCTGCAGGAAGCAATCTAGTTTCTAGATTGGGGTCCAGAAAGGACTCCGGAGGTATCAAGCCAGTCTA
GAAACAAATTAGCCTCAAGACTTGT[A/
G]AAGTAGAGAGTTACTATCCTCAAAAATTCTCTATGTTTTTGGCTCACTCTTTTGGATATAAAAATAATGATTT
TCAAAGATGTCTAAAACAGAAACATAA A/G extended_map 0.171
0.036 0.440 0.037 23.2% 194 81.4% 156 96.6% 58
96.3% 80 NA 0 25.0% 64 26.3% 38 20.7% 92
57.1% 42 NA 0 75.6% 78 87.2% 78
96.6% 58 96.3% 80
CV2967249 AB_ASSAYS_ON_DEMAND 4 26.5606 13396547
forward LGD
GCATTGAAATGCAGGGTTGTGGGATCAGTGGTACTTGCTCTCTTGCTGTCTCCTGCTTTGGTTATGAGAGAAATT
CAAGAAAGCGGCTCTTGCTCAGGTA[A/
G]ACTTCGGGTTGGTTCCTGAGCATTGGTTTTCCTCTGGATTGGCCTAAAGGTCTTCAGGGGTTGAGGAGAATAC
TGGAGAAGGTCTGTATTCATCCATGTT A/G extended_map 0.202

0.037 0.493 0.037 18.7% 198 81.2% 154 96.6% 58
96.3% 80 NA 0 24.2% 66 22.5% 40 13.0% 92
40.5% 42 NA 0 77.6% 76 84.6% 78
96.6% 58 96.3% 80
CV8280145 AB_ASSAYS_ON_DEMAND 4 28.7622 14802485
forward LGD
CCTCACTCTGACAGGCATGTGGTCCCTTCCTTCTTGTCCCCAACCCATTCTGTTCAGGCTGTCACATTTCTAATT
GTCTTTGTTTGTATCACTTGCATCA[G/
T]GTGTCATATTGTTCAAGATGTTCTATGGCATGTGATTTAATATATAAACAAATACCCAACATAAAACGGTCCG
GTCCGTGGCCTGTTTGTTTAATATATA G/T 1,613 0.093 0.004
0.089 0.086 87.9% 198 49.4% 156 56.9% 58 82.5% 80
NA 0 87.9% 66 95.0% 40 84.8% 92
95.2% 42 NA 0 41.0% 78 57.7% 78 56.9% 58
82.5% 80
rs2192356 AB_ASSAYS_ON_DEMAND 4 29.3541 15175474
forward MIT
CCAAAATGCTGGAATTACAGTTATGAGCCACCACGTCTGGCCAACTTTCTATAAGTTTTTAAGTTTTTTACGTTT
TAAAATATGAGAAGTGATATTTTGG[A/
G]CAAGGTAAAGTATTATGATCTGGGATAATGCTATATTGTTAATTCACATTTATCCACAAGGATGGATATTTAT
GTAGATTAAAACACTGGATTGTCTTCT A/G 740 0.199 0.123
0.035 0.069 9.6% 198 67.5% 154 25.9% 58 36.2% 80
NA 0 7.6% 66 15.0% 40 8.7% 92
35.7% 42 NA 0 67.1% 76 67.9% 78 25.9% 58
36.2% 80
rs3796876 AB_ASSAYS_ON_DEMAND 4 29.9294 15537965
forward LGD
ATCAGGAGAGGGAGAAGAAGATACCTATTTCTATACCTTTTGGCCTTGTGTTTTGCTTCAGACACTGTTCCCAGC
AAGGTCAGTGGAACCCACTGCTCAA[A/
G]ACACACACTTGCTCCTTGTTCTGGTGTCATAATAGCTCTGCAAGCAGTGGTGGTGTTCAGCCTGGAGAACGTT
CCTTTTCTTTTTTTTTTTATCACAATA A/G extended_map 0.164
0.055 0.473 0.002 82.3% 192 26.3% 152 5.2% 58
30.8% 78 NA 0 85.9% 64 85.0% 40 78.4% 88
85.0% 40 NA 0 21.8% 78 31.1% 74
5.2% 58 30.8% 78
rs896120 TSCAF 4 37.2636 21540408 reverse MIT
CATCTCTCTTTTTTTTTTTCTTTTTATTCATTTGCTCCTACCTGGAGCAAGAGACAAATAATCTGAAGGAATTTT
CCCATGGCACATTTGATTGGTATAT[A/
G]CTTCCCCCACTAGAATGTCAGCTCTGGAAGAACCGATATACAATTATATGCCAGTGTGTAGCAGAGAATCAAT
GTCTAATGTTGAATGAATAAGCACATA A/G 1,107 0.133 0.002
0.209 0.001 57.5% 186 100.0% 156 100.0% 58 100.0% 80
NA 0 48.4% 64 62.5% 32 62.2% 90
62.5% 40 NA 0 100.0% 78 100.0% 78 100.0% 58
100.0% 80
CV37329 AB_ASSAYS_ON_DEMAND 4 38.09 22808421 forward LGD

TTTCCCCACCTATTTTTTTTGCAGAAACTTCTAAGTGCTGCTGTATTTCACCAAGCTCCAGTTGATATCCAAATT

GGACAACTCCTGTGTGCCAGGACAA[G/
T]GTGCTAGGCTTGCTTTAAAATGATACATACAAATAAGATAAAGCAAAGAGACTTGGCTTTAACATTCAGTAAA
ACAATAATGTGTTTCTTAATAATAAAC G/T 393 0.207 0.258
0.000 0.210 93.4% 196 36.8% 152 93.1% 58 88.5% 78
NA 0 98.4% 64 97.5% 40 88.0% 92
100.0% 42 NA 0 40.8% 76 32.9% 76 93.1% 58
88.5% 78
rs4697422 AB_ASSAYS_ON_DEMAND 4 39.096 23528286
forward LGD
ATTTTTACCTCCGTGGGCTGAGTCCCAGGGTGGACACTGACCTACATACCAGCTTTTCAGACTCCTTTCAGGAAG
GCCTGCAAAATTCTCCAGCAGCTTG[C/
T]CTGTGCTGTTCTCATGCCCTTGCTCAGGGGAAAGCTTGTCTAAAGCTCCTGTGATCAAAGGACCTTTCCTTCC
CAGGTGCCACTATCAATACAATTTCAG C/T 1,648 0.09 0.002
0.110 0.022 57.6% 198 15.4% 156 19.0% 58 30.0% 80
NA 0 60.6% 66 67.5% 40 51.1% 92
69.0% 42 NA 0 10.3% 78 20.5% 78 19.0% 58
30.0% 80
rs6842695 AB_ASSAYS_ON_DEMAND 4 43.8632 25612242
forward LGD
CTGGTCCCCAAATCATAGGCAATTTGGCTTTGGAATGCATTCCAAGGCACATTTGCTGTACACTTGTATGCACAT
TCATCCAAACTCAAATGCTAAACTC[C/
T]ACCAGCTGCCTCTGGACTACATAAAAACCCCAAACCTTTATCTCTTCATTAACGATGGCAAATATTTTCTGGC
TTTACCTTTCTTCCCCACTTTAACATC C/T 309 0.234 0.014
0.472 0.030 20.4% 196 87.7% 154 96.6% 58 98.8% 80
NA 0 18.2% 66 10.5% 38 26.1% 92
21.4% 42 NA 0 88.5% 78 86.8% 76 96.6% 58
98.8% 80
rs1027149 TSCAF 4 45.5319 26264604 reverse MIT
ACCCTGATGAAACCCAGCCAAAATCCAATAAATGATCAAGCAGGCAAAGAATCCTTGCTCATTGCAAGTGTGTTC
TATTGTTGCATGTGTGTGTATGTGC[A/
G]TGTGTGTTTAGAAAACTGCAAGTATTCATAATGTCATATCTTTTCTTCTTTCTCTGTCACATGAAGATAAGGG
ACCTAAGATTCCAAAGGGTCAAATAAC A/G extended_map 0.127
0.036 0.063 0.020 76.7% 300 26.6% 252 48.2% 56
42.3% 78 68.6% 102 81.8% 66 70.0% 40 84.8% 92
90.0% 40 22.4% 98 28.2% 78 30.3% 76
48.2% 56 42.3% 78
CV462017 AB_ASSAYS_ON_DEMAND 4 46.1014 26612539
forward LGD
GTCAAGTCTACATCATTGTTCTGTCAGCCGGTTCAGGATACAGCACAGAGTCGATGGGATGGGGGTGGGAAGGTG
ATGAGTTCAGGTAAATGTACCTAGG[A/
C]GAGTCAGAGGCTAAAGTAAATTCTCTTAAATAGGCCTTTTCAGTGGCTGCTAAATCTCGCTCATTTCCCATGA
ATTAGCTGTGGGATATTGGGGACAACT A/C extended_map 0.201
0.033 0.460 0.010 91.9% 198 34.9% 152 15.5% 58
46.3% 80 NA 0 95.5% 66 85.0% 40 92.4% 92
97.6% 42 NA 0 43.4% 76 26.3% 76
15.5% 58 46.3% 80

rs759097 TSCAF 4 46.8807 27088639 forward MIT
ATATTCACAATTTAAAAACTCAGCTGATACTTCAAGCATTTCGAATATGACAGGGCTTTAAATATTAACCTTAGG
AGTGCTGATCAGTGGACACGAATAC[C/
T]TTGGAAAGTGATTTGTGTGTCTGGTACTAGTCCGCTTGTTTTCTTCCTTAATGACTAAGTCACTCCTGAAAAT
AAATGAGCCATTTACAGAGACACATGC C/T 933 0.148 0.057
0.076 0.045 45.4% 326 95.7% 300 77.6% 58 80.0% 80
52.3% 130 50.0% 64 32.5% 40 38.0% 92
45.2% 42 96.6% 146 93.6% 78 96.1% 76 77.6% 58
80.0% 80
CV422459 AB_ASSAYS_ON_DEMAND 4 50.2574 29756317
forward LGD
ACACTTCAACCAAAACAGGTTACTCAAGGTTCCCTGCAGTTTTTTTCATAGGTTCTATATTTTAAACTCCTACTC
ATCCACCTCCAGACAACTATCTATG[C/
T]GGCATCAATATCATATCAAATTATCATTTTAAGAAAAGTGTTATGATTATTTCCCCAAGTTTTTTTTAACGTA
CCCCAACTCTACCATTGATTACTACTA C/T 1,414 0.103 0.071
0.393 0.086 75.3% 194 29.9% 154 5.2% 58 3.8% 78
NA 0 78.1% 64 82.5% 40 70.0% 90
85.7% 42 NA 0 35.5% 76 24.4% 78 5.2% 58
3.8% 78
rs731196 TSCAF 4 52.7469 32109379 forward MIT
CTGGAAGATGAATAACATGTCCTAGATGGACCTAAATAAAATGTTTCAACAATAACCTGGGAAAATGCTGCTTAG
GAAAAATGATAAACAAAAAATAATG[C/
T]ACTGATGCCCTTCTGCTGAAATGTAATAAAAAGGGCTCTTGGAAGATGCTAACACAAGGTTCAAACAAAATGT
TTCCAAATTTATAAATTTAGAAATAAA C/T 1,328 0.091 0.100
0.002 0.004 19.9% 186 61.5% 156 24.1% 58 68.8% 80
NA 0 20.3% 64 8.8% 34 23.9% 88
31.6% 38 NA 0 59.0% 78 64.1% 78 24.1% 58
68.8% 80
rs6844060 AB_ASSAYS_ON_DEMAND 4 53.6877 34361870
forward LGD
GTATATTCCCCATTAATCATATTTGTATCTCAGATATTTCACTGAATAATTAACTTAACTTTTGTAAATTCCAGA
AGACATTAAAGAAGAATTTTGGACA[A/
G]CAAAATGAAACTATGTGTTCTAAAAACTGGAAGTGTTTTATATAGTTATTTATAAGGACAGTCACACAGAAGA
AAGACTAGACCATACTGTGTATGGATT A/G 720 0.139 0.009
0.295 0.016 72.4% 196 19.5% 154 10.3% 58 32.5% 80
NA 0 75.0% 64 85.0% 40 65.2% 92
60.0% 40 NA 0 17.9% 78 21.1% 76 10.3% 58
32.5% 80
rs7657166 APPLERA_RESEQUENCING 4 54.2182 35966985
forward LGD
GCCCAAGTGGGGCTTCAGGCTCTGTGTCCTCCAGGCAGTTGAAACTCCGATGTTTTCGGGGTCGATTTCGAAGTT
TATCGTCCTTGTGCTCCAGGCAGTG[A/
G]GCCACCATGGAAGCTCTCTCCTTTAAGCTAGAGTCCACGGACTCTTTATCACACTTTTCACTGAGCCGCAGCC
TTTCAAGTTCTGCTCTTGCACTCTAAA A/G 1,195 0.123 0.127
0.002 0.115 97.4% 196 62.5% 152 96.6% 58 95.0% 80
NA 0 97.0% 66 97.5% 40 97.8% 90

97.6%	42	NA	0	56.6%	76	68.4%	76	96.6%	58
95.0%	80
rs2890698	AB_ASSAYS_ON_DEMAND	4	59.1066	39483955
forward MIT
ATGCATAGCCATACCCTATGAAACAGTTTATTTCAATTATATATAAAAGTATATAAGTGCCTAGAAATGTGACTA
AAAGGTCCACAAACTTAATGTGACC[G/
T]CTGACAAAACAAGTAATAGTGGCCATGAAGTGGGATGGATGAGTGGGGAGCAATAGAAAGGGACATGTTGACA
TTTTGCTCCATATTTCTACATTATTTC	G/T	1,043	0.151	0.060
0.052	0.037	84.2%	190	31.2%	154	60.3%	58	53.8%	78
NA	0	76.6%	64	94.4%	36	85.6%	90
87.5%	40	NA	0	25.0%	76	37.2%	78	60.3%	58
53.8%	78
rs463918	APPLERA_RESEQUENCING	4	59.3786	39673796
reverse MIT
TATTTTCACTATTACACCTGACAAAATAATCCTACCACAAGAAAGAAAACCATTTCAAAATTTAGTTTCAATAGA
GTATGCTCATGTGTTAATGTGCAAA[C/
T]CACTGAAGTGGCTAGAGACTCATACATAATATAAGAAAGTCTTTCAAAAGCGGCCATCTTACCTGATTTGCTA
CTACAGCATCCTGTGGATCATCTGGCT	C/T	extended_map	0.092
0.000	0.160	0.000	51.0%	192	10.0%	130	7.7%	52
8.1%	74	NA	0	56.5%	62	52.5%	40	46.7%	90
47.5%	40	NA	0	9.4%	64	10.6%	66
7.7%	52	8.1%	74
CV2062639	AB_ASSAYS_ON_DEMAND	4	63.2026	41966310
forward LGD
CTGGCATCTGCCTCCTTAAGTAAACAGATTTTCACTGAAGTCTTGCCTTTGACACTGGCCCAATGGACAGTATCA
GGTGCAGATCTGCTTTTATCTACCT[A/
G]AAACACATAATTTTCTTTTACATTTTATCTTGTCCACATATAGAAGACCGTCTTTTCTCACCAGTTTTCAAAA
TATACTTAAGTAATTTGCTTACACATA	A/G	118	0.327	0.026
0.622	0.084	4.5%	198	76.3%	152	91.4%	58	98.8%	80
NA	0	1.5%	66	2.5%	40	7.6%	92
0.0%	42	NA	0	78.2%	78	74.3%	74	91.4%	58
98.8%	80
rs563671	AB_ASSAYS_ON_DEMAND	4	64.27	43374262
forward MIT
TAGAAGCCGGAAACTCACTTTCCAAGTTCTTCCTACTCATGTGAAACAGACTTCACTAATAAGTCACACCACCTC
AGTCTGCTCAAGAAGAAAGCAAAGG[C/
G]AGAATGCAGAAACAGCATGGCTTTTAGCTTCTCACACAGTGTCTGGCTTTCTGAGGAAGTGGAAGCAGAATTT
CTCATATCCAGTGTCCTGCCTCAGTGG	C/G	627	0.237	0.170
0.036	0.115	85.4%	198	18.7%	150	66.7%	54	57.5%	80
NA	0	84.8%	66	87.5%	40	84.8%	92
73.8%	42	NA	0	16.2%	74	21.1%	76	66.7%	54
57.5%	80
rs1390915	TSCAF	4	65.1754	44888300	forward MIT
TGAGGTAAATGAATATCTATTTTAAACTTTCTCAATGTATATACTCATTGAGACCTAATCTGAATTCTTGTACAA
ATTGTTGGGTGATAACAGGGTAAGG[C/
G]AAGTGTGTACTTCTTAGCAGCCTTCTATGTAAGTTTCCTTGGCTCATATAAATCTAGGAATATAATAATTATT

CAACTCTCAAATTGAAATGGTGTCACA C/G 1,317 0.143 0.004
0.141 0.006 91.9% 186 45.4% 152 53.4% 58 55.0% 80
NA 0 95.3% 64 93.8% 32 88.9% 90
95.0% 40 NA 0 48.7% 76 42.1% 76 53.4% 58
55.0% 80
rs7690499 APPLERA_RESEQUENCING 4 66.1413 47772582
forward LGD
ACCTCAAAATTAAAAGGCAAAAAAAAAAAAAAAAGCCAAACAACTACCAAAACACATAGATCAAAAAACAAGAAC
AAGAAAACCACACAAAAACAACTTA[C/
T]ATAGAAAAGTATTTTCAATAACTTAAAATATTTACCTTTTTTATTCTTTTACAAGGACATCTAAGTTTTACCT
TCTGGTTGCAGTTAAAGGGACATTCAC C/T extended_map 0.116
0.001 0.125 0.162 95.8% 192 59.6% 156 63.8% 58
97.5% 80 NA 0 100.0% 64 97.4% 38 92.2% 90
81.0% 42 NA 0 60.3% 78 59.0% 78
63.8% 58 97.5% 80
CV11210808 AB_ASSAYS_ON_DEMAND 4 68.5299 55071633
forward LGD
TTAACCCTCAGTTGGTCAAAGATGCTCTGACTGGTGGAAATGTGTTGGTGGGAAGAGATTGAAGTTATTGTTGAA
AATAGGGTCTTTTCACATCCAATGT[G/
T]AGACCTCTCCAATGTTTAAGGATCATGAAGGCTTTGGGTATTATCCACCCAATAGAAGGCCTCACTGCCTCTC
TATGGGACCCATCCAAGCCCTGGAAAG G/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 1,726 0.068
0.038 0.019 0.001 51.0% 196 14.9% 154 34.5% 58
11.3% 80 NA 0 57.8% 64 50.0% 40 46.7% 92
42.9% 42 NA 0 14.5% 76 15.4% 78
34.5% 58 11.3% 80
rs575774 AB_ASSAYS_ON_DEMAND 4 74.9861 60926884
forward MIT
TGGTAATCTCTAATGAGTTCAAGTTATGTGAGTCAATGTTTCTGTCATTTGAATCTTTATGTTAATCCAGAAAAA
GTTGTTATCGAAGCTGATAAAAGTA[A/
G]ACTCCATCATTTCTAATGTTTCTTTTTTATTTAACTGTTAGAGCAATGATGATTAATTTTTAATTCAGTGTAG
GTTTTCTATTTTTAGGTGTTTTCATAC A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 979 0.104
0.016 0.079 0.187 61.1% 198 15.6% 154 27.6% 58
65.0% 80 NA 0 57.6% 66 70.0% 40 59.8% 92
69.0% 42 NA 0 15.8% 76 15.4% 78
27.6% 58 65.0% 80
rs294770 AB_ASSAYS_ON_DEMAND 4 80.38 69993706
forward MIT
CTCATTTTGTTGTCTGTTCTTTTTTTCTGACCTCTCTTGGTACATATTATCAAATGTTGGGTGCTTCCAAGAAGT
AGACTCTAAGCTGAATATTTTTTGA[G/
T]GGAGATAATTAGGGAGATTTCTTGAAAATAACATCTGTGAAAAAGTAGGAAGCAAGATTGGACAGTGGAACAA
AATAGTACATAATTCAGTGCAATAGTT G/T 1,232 0.172 0.000
0.250 0.027 31.0% 184 89.2% 130 88.5% 52 74.2% 66
NA 0 39.1% 64 47.1% 34 18.6% 86
40.5% 42 NA 0 85.9% 64 92.4% 66 88.5% 52

74.2% 66
rs1840086 AB_ASSAYS_ON_DEMAND 4 81.7683 72601609
reverse MIT
GAACAATAACACTGGCATTATATTTCTCACAAGGTTCTTACGAGGATTAAACATAATCATGGACATGACAGCCTT
TATTAAGTCTATAGTACATGACAAA[C/
T]GTTATGTGTTCCCACTTAAGTCCATGCACATTTCCTAACACCAACTACTTGCTAGGCAAAGACACGCAATGCA
ATATGCCAAAAAGAAGTTACTTCTACA C/T 509 0.293 0.056
0.184 0.018 89.8% 196 17.5% 154 43.1% 58 31.2% 80
NA 0 93.8% 64 95.0% 40 84.8% 92
92.9% 42 NA 0 17.1% 76 17.9% 78 43.1% 58
31.2% 80
rs705117 AB_ASSAYS_ON_DEMAND 4 82.3699 73074366
reverse MIT
GGAACTGAGGCTGTGAGGGAACAGATTCGTGTCCCTTATTGCATCCTCACTCCAAAGCATAAACTCGTTGAAGAC
AATGAAACATGGAATTTTTTACACC[A/
G]TGCAAATAGAACTGTGACATAACTATATTATATTGTCTTGGAAGAGGGAAAAAATTAAGGGAGACGAATTGGC
CCTAATACAAAGTAGAAGATGACTTGA A/G extended_map 0.243
0.081 0.116 0.067 79.9% 194 11.5% 148 40.7% 54
37.5% 72 NA 0 78.1% 64 68.4% 38 85.9% 92
81.0% 42 NA 0 14.9% 74 8.1% 74
40.7% 54 37.5% 72
rs4588 PARRA 4 82.3811 73084574 reverse MIT
AAATTTGTATAAAATAAATACATGTAGTAAGACCTTACATTTAAATGGTTTTTCAGACTGGCAGAGCGACTAAAA
GCAAAATTGCCTGANGCCACACCCA[A/
C]GGAACTGGCAAAGCTGGTTAACAAGCNCTCAGACTTTGCCTCCAACTGCTGTTCCATAAACTCACCTCCTCTT
TACTGTGATTCAGAGGTAGGAAAATGT A/C extended_map 0.061 NA
NA NA 97.1% 136 74.7% 154 NA 0 NA
0 97.1% 136 NA 0 NA 0 NA 0
NA 0 74.7% 154 NA 0 NA 0 NA
0 NA 0
rs7041 PARRA 4 82.3811 73084585 reverse MIT
TTTTGCATTAGAAATTTGTATAAAATAAATACATGTAGTAAGACCTTACATTTAAATGGTTTTTCAGACTGGCAG
AGCGACTAAAAGCAAAATTGCCTGA[G/
T]GCCACACCCANGGAACTGGCAAAGCTGGTTAACAAGCNCTCAGACTTTGCCTCCAACTGCTGTTCCATAAACT
CACCTCCTCTTTACTGTGATTCAGAGG G/T 1,574 0.138 0.002
0.154 0.013 91.0% 332 45.1% 304 50.0% 58 58.8% 80
93.4% 136 84.8% 66 89.5% 38 92.4% 92
97.6% 42 41.7% 156 46.1% 76 51.4% 72 50.0% 58
58.8% 80
rs4074 AB_ASSAYS_ON_DEMAND 4 83.9 75202395 forward MIT

TTCCTAAAAGAGCATCCCAAGCTTAGAGGTCCCTGCCACACAGCACAGCTGTCATAGGCAGTAGCCACTTGGTTG
CCAGGCTGGGGAAACTGCATTCGGA[A/
G]AACTCTAGAGGCTGGAGGAGCAGGGCAGGAGAAGAGTGTTGTGCAATCAGCTTTCCCGAGCACCTACTCAGGG
CACCCATTTTCTCATTGCAGTGACAAA A/G 73 0.377 0.071
0.207 0.018 1.0% 198 72.7% 154 41.4% 58 57.5% 80

NA 0 1.5% 66 0.0% 40 1.1% 92
0.0% 42 NA 0 72.4% 76 73.1% 78 41.4% 58
57.5% 80
rs1440407 AB_ASSAYS_ON_DEMAND 4 84.2711 75501432
forward LGD
TAATTAGCCTAGATTATACTCAGTGATTGCCAGCTTCACAGTGGCCTGTGAACAAATTATTTTGTTTAATGTGAG
TGAATCAATAATGTGTCAGCAGTAG[C/
G]ATCACTACTCACATGCTATAAAATGCAAGACAGAGTTCAGATGTTTTTATATTTTAAAATAGAATGTATATTC
CTTACTGTGTTAGGTGATTACTAGTTT C/G extended_map 0.243
0.001 0.369 0.070 30.0% 190 96.8% 156 96.6% 58
76.2% 80 NA 0 24.2% 62 31.6% 38 33.3% 90
23.8% 42 NA 0 97.4% 78 96.2% 78
96.6% 58 76.2% 80
CV9760653 AB_ASSAYS_ON_DEMAND 4 84.2757 75505154
forward LGD
TTTATTGACCTACATTTGATGTTTTTTGTAGTAATCATGTTTTTACCGGGCCATTCAATAATGAAAGGACAGGGG
CAGAAGGAAGAAGGGACCACCTTCT[A/
G]CTTTATCAGATACCTTTAAAAAAATAAACACACAGTAAGAGCAATGTAATTCACCACTTTCAAGTTTGAGGTC
ATGGAGAGCAGAAAAGCCTTTCTAGAA A/G extended_map 0.247
0.001 0.368 0.065 30.1% 196 97.3% 150 96.6% 58
78.4% 74 NA 0 22.7% 66 36.8% 38 32.6% 92
23.8% 42 NA 0 98.6% 72 96.2% 78
96.6% 58 78.4% 74
rs7669588 APPLERA_RESEQUENCING 4 85.4019 77188653
forward MIT
AACTACAGACAGAAAAGCAGGAACTGTTACAGAAAACAGAAGCGTTTGTAAGTATTTTCTCTTTTTTCTCTGGAA
GGTAATAAAGACAAGGTTGATGTAT[C/
T]ATTTCTTAGCCACAATTAAAAAGAAACAAATTCATCAGATAGCACCTTCTCTTTAGATTACTTACTAGCCGGT
ATTCTAGTAACATAGGCTTCATGTTCA C/T 1,965 0.084 0.006
0.180 0.066 67.6% 176 26.0% 150 17.9% 56 3.9% 76
NA 0 73.3% 60 57.7% 26 66.7% 90
78.9% 38 NA 0 31.9% 72 20.5% 78 17.9% 56
3.9% 76
rs727761 AB_ASSAYS_ON_DEMAND 4 87.5327 80118060
reverse MIT
TCCCAGAGCATCTATGAGTTAAATGGTAGCACCAACTTATACAATTCAGTGGTATTTGAATGTAAAGTCCTAGAA
TAAATATTGGACAGAGGTAACTGTG[G/
T]CCAAGATTCAAGAAGGTTAAAGAAATTATGGGGTGATAATAATTTAATTTGAGTATAGAGCAATCAATCTTTT
CAGTTTACATCTAGATGAATGTTAAGA G/T extended_map 0.12 NA
NA NA 54.8% 84 97.9% 96 NA 0 NA
0 54.8% 84 NA 0 NA 0 NA 0
NA 0 97.9% 96 NA 0 NA 0 NA
0 NA 0
rs1426139 TSCAF 4 87.6206 80225072 forward MIT
TACTTCTTATTTAATATTAAAAGGATTGACTTTTTATGCATTGAAAACTGTGTAGAAAATGAAAGTGTTAAGACT
GCATCATCACTGTTACTTTGTAATG[A/

T]TATACTGGAAAGCTCTGGAATGGAAATATGTCATATCTACTTTATGTTCTCTTAATCCGGTGCTTTCTGTGGT
TGCTAAAGTACCTGTGAGAATCTTTCG A/T 1,334 0.194 0.012
0.233 0.052 40.1% 302 97.7% 266 93.1% 58 82.5% 80
37.5% 112 45.2% 62 37.5% 40 40.9% 88
23.8% 42 99.1% 110 98.7% 78 94.9% 78 93.1% 58
82.5% 80
rs2903748 AB_ASSAYS_ON_DEMAND 4 89.2974 82464787
forward MIT
TCTCATAAAAAGTAAAACTTCTAAGAATCTTAAGTGCATTTTCTCAGAGCATCTTTAGAGGAAAGATTTGTGACT
GGCTATTGTCTAGTGGACTGGATTA[A/
T]GAATTCGTATTTGAAAAATCATGAAGTTTTTAAAAGAAATGTATCAGCTTGAAATAAAGAGGCAGAAACAAGC
TGAAAAGAGGCATTTCTACCATCAAAT A/T 997 0.167 0.002
0.220 0.038 32.6% 190 89.7% 146 87.0% 46 71.9% 64
NA 0 29.0% 62 34.2% 38 34.4% 90
25.0% 40 NA 0 87.1% 70 92.1% 76 87.0% 46
71.9% 64
rs1921877 TSCAF 4 92.2152 85421048 reverse MIT
GGATGACAAGTAGGAGAATACTATATGTGTGGGCTAGAAGGAAATTGAATATCATTTCGTCATTTATTTTAGTTA
TGAGGAAATGAATTCTTGTAAAGGC[A/
G]AATTATCTTCTCCAAGAGACAGAATATAAATAGAATCCATACCTACCCACTCTGGTTTCCATTCTACACTCAC
TCTGGTGAGTATATCTGAAATCCAAGG A/G 346 0.22 0.304
0.000 0.045 16.2% 290 80.6% 252 16.7% 54 57.7% 78
15.7% 108 13.3% 60 11.8% 34 20.5% 88
5.3% 38 80.9% 110 81.1% 74 79.4% 68 16.7% 54
57.7% 78
rs1006852 APPLERA_RESEQUENCING 4 92.5834 85878629
forward MIT
AAAAGGGGGAGGAAAAACACAGAAAAACAAAAGACTAAGTGTGAAAAGTCTGACGGCTGGGTTTCGGCGCCGCTC
GTCAGTCCACTTCTGCAAACGGGCC[C/
T]GGCGACCCCCGCCCCACCCCCGCTCCCTCTCTCCCTCTCACTCTCAGCCTTTGACTCTCCTCTCTGGCATTTT
CTTCGCGGCTTCCCAGGCTTCGGTCTT C/T 580 0.212 0.037
0.135 0.061 88.0% 184 26.3% 156 48.3% 58 55.0% 80
NA 0 93.8% 64 84.4% 32 85.2% 88
92.5% 40 NA 0 24.4% 78 28.2% 78 48.3% 58
55.0% 80
rs342945 TSCAF 4 93.1752 86745074 forward MIT
GATAGAAAACAGTCAAGTCACTCAAGCTTTTGGGTGTATTCTAATTAGGAATCAATGAAGAGAGATAATTCTAAA
ATTATCACAATGAAGTATCACTCAA[A/
G]TTAATCTCTTGCTGAGACCCAGGGAATCAGTACCCAGATTCACAGAGAGAGGCAGGGTGAGGCAAACTAAAAG
AGTTAAATGAAAATGGTGTATGACTAC A/G extended_map 0.236
0.018 0.460 0.002 7.3% 328 68.8% 298 83.3% 54
73.6% 72 5.1% 138 9.4% 64 5.3% 38 10.2% 88
2.4% 42 70.8% 154 65.3% 72 68.1% 72
83.3% 54 73.6% 72
rs713538 TSCAF 4 95.6374 89281805 reverse MIT
AACCTGCTTTTCAACAAGAAAACAAATTTGATACCTGCAGAGAATCAATCATGAAAGATTTTACTTCATGAGATT

TGGGACTTTCAGCAAGCTCATTTTG[G/
T]GAAGTTCATTTTCCTCATGAGGAAAAGAGAGAATCCCTTGGTTCAACAACCTGGTGTCTTGACACTGCATGCA
CAAAGTGTAAATGTGGGAAGACATAAT G/T 2,091 0.075 NA NA
NA 12.0% 108 46.4% 112 NA 0 NA 0
12.0% 108 NA 0 NA 0 NA 0 NA
0 46.4% 112 NA 0 NA 0 NA 0
NA 0
rs2728133 AB_ASSAYS_ON_DEMAND 4 95.7581 89440085
forward LGD
ATCCATATATATATATATATCATATATACTGTATAATACACACTGTAGTGTTTTTTGTGGATTGTGTACTATGAG
GTAGTATGTTAGATACTGCCAGTAC[C/
T]GGGGTAAGGAAAACAGCCTGATTAGGCCCTTACGAAGATTCCTCAGACTTGTGGGGAAAACAGACATTATCAA
ATAGAAATACTTGCAAACCACAGTTAT C/T extended_map 0.224
0.018 0.209 0.134 19.8% 192 85.7% 154 73.2% 56
45.0% 80 NA 0 25.0% 64 19.4% 36 16.3% 92
26.2% 42 NA 0 88.5% 78 82.9% 76
73.2% 56 45.0% 80
rs2725267 AB_ASSAYS_ON_DEMAND 4 95.7844 89474570
reverse MIT
GCTCATTAACTCCAAAGTAAACTATCTGTGTCTTAATATAGTATAACCAAGCTTCTAACATCCAAGAATTACAAC
TGGTTCTAATGAAAACAAACAAGAA[C/
T]GAAAGATTGTCACTGTAAATTAACAATACTCATTGAGCACCACTGTATCATTTTAATTAGAATGTTTATGGAG
TTACAAAATTGGGGAGAGAAGGAGGAA C/T 945 0.302 0.147
0.114 0.041 21.2% 198 96.1% 154 60.3% 58 81.2% 80
NA 0 25.8% 66 20.0% 40 18.5% 92
23.8% 42 NA 0 96.1% 76 96.2% 78 60.3% 58
81.2% 80
CV319468 AB_ASSAYS_ON_DEMAND 4 96.3389 89813497
forward LGD
AGATGAATACATGTGAAAAAATACTGAAAGGTGTTTTGTATCTTTTCGAGAACAAATGGACCCTCTAAAATATAG
GAATGGCTAAGGTGTGCCAATGGTA[C/
T]GATTTTTTGTTGGTCAATCAGCAAGCATTTATTTAATGTTTCTTGAGGTTCCTACATTGTATTAAATATTGTG
GGATATTCAAATTATTACATGACATAA C/T extended_map 0.09
0.103 0.003 0.291 36.9% 198 79.9% 154 43.1% 58
17.5% 80 NA 0 42.4% 66 27.5% 40 37.0% 92
28.6% 42 NA 0 84.2% 76 75.6% 78
43.1% 58 17.5% 80
rs7699006 AB_ASSAYS_ON_DEMAND 4 96.4853 89855485
forward LGD
GATAACCACCTGCCTCAAAGATAATCTGCTCAAAAGACTTCCATTTCATTCTCCACCCCAAGAAGCTTTAGAAAT
TTTCTTCCTTCTCCCAGAATGTCCT[A/
G]TGATGCATATTTCCAACAACTGGGAGAGCCTTGTGGTTCCATTTGCAAAGGTTGTTTGTAAAATGAGTGACCA
GTCTTCACTGGTTCTGGGTAAGTTTGA A/G 1,881 0.143 0.072
0.038 0.324 79.8% 198 27.0% 152 58.6% 58 91.2% 80
NA 0 77.3% 66 80.0% 40 81.5% 92
83.3% 42 NA 0 21.1% 76 32.9% 76 58.6% 58

91.2% 80
rs1560489 AB_ASSAYS_ON_DEMAND 4 98.1488 90656857
forward MIT
CAGGCCCAAATGGTAACCATAGTGGCCAGTATTCCCTTCATTTGTGGGCTAAATTCGCGAGAAAACTGACAGAAT
TTGTCCAGGTGCGAGGCATGAGTGA[C/
T]GTGCAGGAGTGGAATGTCCGTCCCCAAGGAGGGGTCTGCAGTCCACAGACTGGGCATGACAGGGAAGGGACCA
GGACCCCCAAGGAAAGCAGGACTGAAT C/T 495 0.291 0.010
0.284 0.010 5.6% 302 73.5% 264 62.5% 56 62.8% 78
5.5% 110 6.1% 66 5.9% 34 5.4% 92
19.0% 42 78.6% 112 64.5% 76 75.0% 76 62.5% 56
62.8% 78
rs6814827 AB_ASSAYS_ON_DEMAND 4 98.907 91799062
forward LGD
ATAGATGTTAATATACATCAAGTACAGTGGAGGGAGCAAATACTCTGGTTAAAGAACTTATTCAGCCAGTATTAA
CCTAGATCTTAACATTAAATGGCAG[G/
T]TTCTTTTAACTGTTTTTCTAGACCTTGATGCTTCTAATTTTATGTACAGTTCTAATATACTTGGTTATATGTT
TTCCAAGGCACTGAAAATCATAATAAC G/T 85 0.346 0.000
0.459 0.032 8.2% 196 85.7% 154 84.5% 58 67.9% 78
NA 0 6.1% 66 10.0% 40 8.9% 90
2.4% 42 NA 0 84.2% 76 87.2% 78 84.5% 58
67.9% 78
rs8180272 AB_ASSAYS_ON_DEMAND 4 99.1627 92013030
forward LGD
TTAATTTAATCAAGACCCATTTGTATGCCCAAGTCTATCAATGGTAGATATAATTTCCTGAAGCTTTTTCAGATC
TTTCTATGCAGTAGATGGCTATGGT[A/
G]TTCCTTAACTGTATTTTTAAAATTATCTGCTAAATCTTCCAGATTAGAAGAAAGGCCTAGAGGTTTAGAGACT
GGTTATTTCCATATGTACTCACTCTTT A/G 1,266 0.211 0.000
0.301 0.092 89.2% 194 28.3% 152 26.9% 52 64.1% 78
NA 0 85.9% 64 92.5% 40 90.0% 90
90.5% 42 NA 0 23.7% 76 32.9% 76 26.9% 52
64.1% 78
rs2289043 AB_ASSAYS_ON_DEMAND 4 102.2886 96564716
forward LGD
CTTCCAGAGGGAATGGGCGATATCGTGAATTGACAGGCGCAGGTTGTGGGTGCTGCCTTTAAAATGAAGAGCCTT
AGGTTCTTCTAGGAGCTGTCCTCCC[A/
G]TCTGTCTCTCAAGATGTAAAATTTCCTATAATGACATGCCCCAAACCCAAAGCACGTTATTGATTTGGATCAC
TTCTGTCAGCTCTCTCATTGAATAAGT A/G extended_map 0.206
0.093 0.620 0.000 9.7% 196 68.8% 154 96.6% 58
68.8% 80 NA 0 12.1% 66 2.5% 40 11.1% 90
0.0% 42 NA 0 67.9% 78 69.7% 76
96.6% 58 68.8% 80
rs6827097 AB_ASSAYS_ON_DEMAND 4 104.0458 99715674
forward LGD
CTCTTTATCTTTATTTACTTCATATTTTCCCCCAGGGTATCTGACAATAGAATGGAGATAGATCTTTTGCTGAAA
ATATTTTTTCACTATGTTTTATTGT[A/
G]TCCTCATTCTCTTAGTCTGCAGTAAGAAATCTGTATTTCTTATAGGTAAATATTCATATCTTCAGTAATTCAA

CTTCTTGGTGAACAATCTAGTTATATA A/G 1,433 0.219 0.011
0.210 0.005 11.1% 198 73.4% 154 62.1% 58 66.2% 80
NA 0 12.1% 66 5.0% 40 13.0% 92
11.9% 42 NA 0 75.0% 76 71.8% 78 62.1% 58
66.2% 80
rs1230188 AB_ASSAYS_ON_DEMAND 4 104.6533 100345842
forward MIT
AATGTAACTAGTAGAAGCCTACAAGCAGGAGAAGCCAAAAAGAAGGAAAAGCTAATACAACAGATGCTATTATGT
TGAGCAAAAGAAGAGAGTACACATA[C/
T]TGGTGACTTATTGGAAGGACAATCAGACTCAGAATAATTGTCTCCATTATAGTGAAGCACAAAATGGAGCCAT
TAGAAGCTACCCAGTTAACCAGAACAA C/T 881 0.2 0.164
0.027 0.336 73.7% 190 11.0% 154 55.2% 58 76.9% 78
NA 0 76.6% 64 66.7% 36 74.4% 90
69.0% 42 NA 0 10.5% 76 11.5% 78 55.2% 58
76.9% 78
rs1155120 TSCAF 4 105.8398 101139902 forward MIT

CATGCACTTATTTATCAAATACGTATGGAGTTGCTTACTATGTGCTAGGAACTGTTTTAAGAGCCTCATGTCATG
TAATTAAGTCTTTCTTGAGTAGTTA[C/
T]GAAGTACATCTGAGAAAGAACTAAGCACTAAAGTATAAAAGTTGATACAGGAAATACTAGGAAAGTTACGATT
CAAAAAAATAATGCAAGCAATATGTTA C/T 1,695 0.146 0.000
0.242 0.000 52.7% 182 99.4% 156 100.0% 56 100.0% 80
NA 0 50.0% 64 53.3% 30 54.5% 88
55.0% 40 NA 0 98.7% 78 100.0% 78 100.0% 56
100.0% 80
rs3775350 AB_ASSAYS_ON_DEMAND 4 106.2643 101781803
forward LGD
CCACGAAGTAAAGCTTTGCAGAAGGCAAGGTTTATAGCTCATAAATGTTTCAAAATTCCTGTCTGCCCTGCCGAA
TCACATTAAACATAATACTGTGCAC[G/
T]AAATAGATGATCAATATATGAAGCAACAAGCATTAAATATATCTAAAATCTTGTTTTGATATGGAAATTTTTA
ACATAGGTGATGATTTCTGTATTACTG G/T extended_map 0.155
0.244 0.000 0.345 26.8% 198 82.5% 154 25.0% 56
15.0% 80 NA 0 28.8% 66 20.0% 40 28.3% 92
22.5% 40 NA 0 85.5% 76 79.5% 78
25.0% 56 15.0% 80
rs357669 AB_ASSAYS_ON_DEMAND 4 106.2937 101832121
reverse MIT
ATTTCTTGCTGGTAACTTAGTCATTCTGGTATCTATAACCAGATTTTAAAGGAGATATCTTGCACACTGTAAAGG
ATTGGCAGGGAAGGAGGGACTATTG[A/
C]TCTTTTTCCCTTTACTGAATTGTAACTTGGCTGAGACAAGAATGCAGAATAAGATTATAGATAGATGATAAAT
TGGGATGTGCGGAACTCCAATATAGAA A/C extended_map 0.134
0.089 0.019 0.137 90.0% 180 43.7% 126 78.8% 52
85.5% 76 NA 0 87.5% 64 88.5% 26 92.2% 90
95.0% 40 NA 0 45.0% 60 42.4% 66
78.8% 52 85.5% 76
rs920559 AB_ASSAYS_ON_DEMAND 4 106.7883 102677109

forward MIT_and_LGD
AATGTTAACAGATCCATGTAAGGTGACAGAAGTGGGCCCAAGGTCTCTTAGGAAACATATAGTTTGACCATGCAG
AGGGCATCATGGCCAATTGTACCTG[G/
C]GATGTCAGGAAGAGGAACCCACTAGATGACCATCCTTGGGAAAGAGTCAACCATGCCAGCCCAGACACATATA
GCCAGCTGCTGGCATTGGATTCTGCAT G/C 605 0.218 0.083
0.090 0.122 79.0% 310 14.2% 268 44.8% 58 52.5% 80
84.8% 112 75.8% 66 82.5% 40 72.8% 92
88.1% 42 10.7% 112 20.5% 78 12.8% 78 44.8% 58
52.5% 80
rs3733631 APPLERA_RESEQUENCING 4 108.0648 105099923
reverse MIT
GCAACGTCACCGAAGCGTGGGACCCCATGAGTATAAAGAGAGCCTGTAGCGCAGGACGCTCAGTTCTCCAGCCTG
TGCCGGGCAGCTGGCACCCTCCCTA[C/
G]GTGTGATGTGACTCGATAACCCTTAATCTCGGGAGGATCTCATTCTTTCTGCCTGCCAGAGCCGCAAGCGCCT
CTGAGAAAGTGCAGCTGTTGCCCCTTA C/G 210 0.282 0.017
0.290 0.082 82.1% 196 9.1% 154 19.6% 56 37.2% 78
NA 0 81.8% 66 86.8% 38 80.4% 92
92.9% 42 NA 0 6.6% 76 11.5% 78 19.6% 56
37.2% 78
rs4540049 AB_ASSAYS_ON_DEMAND 4 109.7793 106871071
forward LGD
ATGAACTGGTGCCTTCCATCACAACCCTGCTGTTTGGTCTTGTAATCTGGAATCCACTAATGTAATCTCACTTGT
CAATGTCTATAGAATTAACCTCATA[A/
G]GTTAAGGTGACCTCTAAGGTTTAAAGGTGAGAAGAGAGAGTGGGGCACAAAAATATACCATATTTATGAAAAT
TAGGTCGTTCATTCTGGCTACTTTGGG A/G 1,175 0.181 0.076
0.062 0.167 82.3% 198 23.4% 154 55.2% 58 71.3% 80
NA 0 86.4% 66 80.0% 40 80.4% 92
90.5% 42 NA 0 21.1% 76 25.6% 78 55.2% 58
71.3% 80
rs2553462 AB_ASSAYS_ON_DEMAND 4 110.0061 107189839
reverse MIT
TTTAAGGAATCATATCCAAATACTGAGAAAAACATACTGGGATTAGTAGTAGCAGCAGCAACACTATAAATAACC
CATTAATTTATACAACCTAGAAAAA[C/
G]ACAATTTCTCACTGCAGTATACTTTGAGACAATGTAAACAATGTCTTAGGAGGAAAAAAGACCAGGTATAAAA
TTAAGACTTACATTGAAAGTGGAAAAA C/G extended_map 0.28
0.026 0.563 0.025 7.6% 172 76.4% 148 91.4% 58
91.0% 78 NA 0 3.6% 56 8.3% 36 10.0% 80
15.8% 38 NA 0 75.0% 72 77.6% 76
91.4% 58 91.0% 78
rs2553458 AB_ASSAYS_ON_DEMAND 4 110.0109 107196616
forward LGD
TCTGCTCTTGAAAATTTTATTTAGAGGAAAAACTGAAGTAAAATACATTTTATGATTGACTCTGAATAATTAAAT
TTTTCCCTAAGATATAATTACTAGG[A/
G]AATCACTCATTTCCCTGCTAGAAAGCACCTCATTTCCTTGAACGCACGCATATGAAAAAGACACCAGCATTGA
AATTCTGACATCACAATTAATTAAAAG A/G extended_map 0.273
0.022 0.538 0.030 92.4% 198 24.7% 154 10.3% 58

8.7%	80	NA	0	95.5%	66	92.5%	40	90.2%	92
	83.3%	42	NA	0	25.0%	76	24.4%	78
10.3%	58	8.7%	80
rs4956157	APPLERA_RESEQUENCING	4	111.6986	109458186
	forward LGD
GAAGTGCAAACACATTCTATGACCACCTGATATGTGATTAAATTGGGGCAGATTTTCATGAAGCAGTTCCATGGC
TACCATGAACATTTACACATGACTC[A/
G]GCTACTTACCCTTCTGCCAAGAATCTGGTTGATAGCTGCACTTTCTTTTAGAGTACACTCAGCAACGACATTC
GCTCTCATTTCTTTCATGTATAACATA	A/G	1,594	0.124	0.033
0.352	0.071	68.2%	198	17.9%	156	3.4%	58	0.0%	80
	NA	0	69.7%	66	75.0%	40	64.1%	92
69.0%	42	NA	0	14.1%	78	21.8%	78	3.4%	58
	0.0%	80
rs1393825	AB_ASSAYS_ON_DEMAND	4	111.9322	109689910
	forward LGD
AGTATTGCTCCACTATTCCTGAGATCTTAGTCAGGTGAATATAAGGGAAATATTCCCAAAGACAAACCATTGTTG
TCCCAGATGCTGTCTACTACTCACA[C/
T]AGAAGGTGTGCCCTGTAGGCTAGTGATGACACGTAACTGTGTGGATAAATGAATTCATTTCTTCCTCACTGAG
CCCCAAATCCTTCTCAAGACAGTATTT	C/T	extended_map	0.066
0.051	0.275	0.031	73.0%	196	36.4%	154	12.5%	56
17.5%	80	NA	0	72.7%	66	75.0%	40	72.2%	90
	88.1%	42	NA	0	30.8%	78	42.1%	76
12.5%	56	17.5%	80
CV25934837	APPLERA_RESEQUENCING	4	113.1787	110905140
	forward LGD
ATATCTATGAAAACTACCAGTAAAGTTTAAAGCACTATACAAATATAAAATGTCACTTGTATTTTGTTTAGATAG
CATGATTCCCTTACCATTCTGCTCA[A/
G]CAGTAAACTTTATCATATATTTTATAGATATTACTGTTTTCTCAGATTTGTATGTTCTTATTTTGATGGCTTA
GGTTTTCTCATGACTTAGATTTCTTCA	A/G	1,418	0.147	0.000
0.245	0.000	47.5%	198	0.7%	152	0.0%	58	0.0%	80
	NA	0	45.5%	66	32.5%	40	55.4%	92
23.8%	42	NA	0	0.0%	76	1.3%	76	0.0%	58
	0.0%	80
rs2282784	AB_ASSAYS_ON_DEMAND	4	113.6189	111328066
	forward LGD
AGTATTCTTCCTACCATAAATGTATTGTCTCTTCAGAGCCCCTCACTACTCAGCTTCTGTGACAGGAAGTTCAAA
TAGGATAACTGAAAGCATGAATTTC[A/
G]GAAGAAAATCTACAATGATTCACTAAAGTGCAGCCCCAAACAATGTGGCAAGTAATAGAATTGGCTGGAAAGC
CTCTGCCAGCTGCAGAGCCACAGACAA	A/G	extended_map	0.164
0.047	0.071	0.050	9.1%	198	60.4%	154	34.5%	58
33.8%	80	NA	0	0.0%	66	7.5%	40	16.3%	92
	4.8%	42	NA	0	61.5%	78	59.2%	76
34.5%	58	33.8%	80
rs2190907	AB_ASSAYS_ON_DEMAND	4	113.6362	111344688
	forward MIT_and_LGD
CTGGCCTACTTGAAAATCCTCTGCTAAGTTCTGAATGATTAGGCACAGAACAAGTTAAATATAGATATTGGAGTA

ACACTTGAGAAATTTTAAGGACTTT[C/
T]TTGCCATCATAATGCTACCCTAGTCCTTGCTACGATTAGCCGTTTTATTGGAAATGATCACACAGTTTAGTTT
TAGATTTTCAGTTTAGTTTCCTCTTTG C/T extended_map 0.166
0.048 0.071 0.057 9.1% 198 60.9% 156 34.5% 58
32.5% 80 NA 0 0.0% 66 7.5% 40 16.3% 92
4.8% 42 NA 0 62.8% 78 59.0% 78
34.5% 58 32.5% 80
rs2282787 AB_ASSAYS_ON_DEMAND 4 113.683 111389614
forward MIT
CTCAGGAATATATTAGAATGTCTCTTTTGCTGTTGTTTTTTTCCCCCCGCACTGTACTGCAAACAATTTGACCCA
TTCTCTGTGGGCCACTCATATAACT[A/
G]TCTCCCAGCATGAGTGATCACATCCCCAATCATGTCCAGCTGTCTCATAAATGCCTGGGGTGAAAATGCGCAT
AGAGATTGGGGTGGGGGGAGATTGAGT A/G 322 0.233 0.133
0.066 0.180 74.7% 186 7.8% 154 44.8% 58 52.6% 78
NA 0 76.7% 60 80.6% 36 71.1% 90
90.5% 42 NA 0 6.6% 76 9.0% 78 44.8% 58
52.6% 78
rs313944 TSCAF 4 117.7082 114433910 forward MIT

GCAATTCTCTCTCATCCTCTCAAAATGCTGGCATTACAGGCATGAGACTATAAAACTTATTCCACTATTCCACTA
TTTTGACAGATTAGATTAAAATAAT[A/
C]CAAGACCATATTTTTGTGTGCAGCTCCACACACTTTCCAATTTTGTAGCAATAACATAGCAGTGGATTTATAC
TAAAAGGGGCTGTAGGAGATTTTGGTA A/C 2,098 0.057 0.037
0.019 0.051 76.3% 190 99.4% 154 89.7% 58 86.3% 80
NA 0 71.7% 60 68.4% 38 82.6% 92
67.5% 40 NA 0 98.7% 76 100.0% 78 89.7% 58
86.3% 80
rs2272229 AB_ASSAYS_ON_DEMAND 4 118.0842 114719461
reverse MIT
TGACTAAGTCAGAATCATACAGGCAAAGCAGACAATCGCTCCTTTTCCTTAGATTTTAATCGGATTGGTAATACT
TTGTTACTGTATTATCACTATTCCA[C/
T]TTGCTGACAGATCTAGTTTAAAATATAAAAGCAAAGGCAGACCATATTTAAAATCCAATGAAAAAATAACTTT
TAAACAATAAAGAAACAAAATAAAACA C/T 1,159 0.19 0.000
0.279 0.000 76.8% 198 15.6% 154 15.5% 58 13.8% 80
NA 0 77.3% 66 80.0% 40 75.0% 92
78.6% 42 NA 0 13.2% 76 17.9% 78 15.5% 58
13.8% 80
rs2374150 AB_ASSAYS_ON_DEMAND 4 118.4047 115143801
forward LGD
GAAAATTGTTTCTTAAATATTCAAGTAATGAAGTCTACATAATTACAGTATTTATCTCAGTTATTTAAACTACCA
ATAATTGTAAATGGTTATAATTGTG[C/
G]AGTACAATAAAGGAAACATAACTGAGTTTTAATACTGATGTATTATTAGACAATAAATGTGTACATTTTTTAC
AGCAAACACTGCTTAATCTGTACGTAC C/G 1,392 0.173 0.018
0.391 0.023 34.7% 196 92.2% 154 100.0% 58 80.0% 80
NA 0 34.8% 66 55.3% 38 26.1% 92
33.3% 42 NA 0 91.0% 78 93.4% 76 100.0% 58

80.0% 80
rs1525760 TSCAF 4 120.6408 117594200 forward MIT

GGCTTGGTAAATCCAAAATTTTCAAGGTAGGCTGGCAGACTGGAGATCGTGGGAAGAGTTGCAGTTCAAGTCTGA
AAATAATCTGCTGGCAGCATTTCCT[C/
T]TTTCTCAGGGGAGGTCAGTCTGTTCTATTAAGACTTTCAACTGATCAGATGGGGATCACCCTCATTATAGAGG
ATGATCAACTTTACTCAAAGTCCACCA C/T 28 0.416 0.003
0.639 0.001 5.2% 326 87.7% 308 93.1% 58 91.0% 78
3.7% 134 3.1% 64 11.1% 36 6.5% 92
14.3% 42 89.6% 154 88.5% 78 82.9% 76 93.1% 58
91.0% 78
CV25753421 APPLERA_RESEQUENCING 4 123.6799 123227231
forward LGD
CACAACCCTTGACCTAAGAAAATGTCAATATAGAATAAGGCACACAAAAAAGTATATTTCTATCTCCAAAATATT
AATCAGCACTTACGCTAATTTTCTC[A/
G]AAACTGTAAACTTCCATTTTAAAAGGTGATAAACTAATTAATTACATAATTCCTTCCAATAAAATATACTGCA
TCTATAAGTAATAAAAAGCAACAACCA A/G 1,697 0.145 0.003
0.283 0.000 47.4% 192 96.7% 152 100.0% 58 96.3% 80
NA 0 53.1% 64 31.6% 38 50.0% 90
61.9% 42 NA 0 96.1% 76 97.4% 76 100.0% 58
96.3% 80
rs308395 AB_ASSAYS_ON_DEMAND 4 124.1866 124205763
forward MIT
TAGAAGCTTCCCCAAATCTCCTGCCTCCCCACGCTGAGTTACCCGATGTCTGAAATGTCACAGCACTTAGTCTTA
CTCTTCTATGGCCTACTTTCTACTG[C/
G]TATTTGTGTTACTCATGCTACCCATCTTATCTCCCTCAGTGTGTGAGACGCTGGCATCAGATTTGGCATCTCC
CACACACTCAACATTATGTGTTGCACA C/G 1,272 0.195 0.021
0.176 0.014 71.7% 198 10.0% 150 22.2% 54 20.0% 80
NA 0 71.2% 66 82.5% 40 67.4% 92
67.5% 40 NA 0 6.8% 74 13.2% 76 22.2% 54
20.0% 80
rs160056 AB_ASSAYS_ON_DEMAND 4 124.25 124593530
forward MIT
ATTTAAGTAAAAGAGGACACTCCAACAAAACTAGTATTCACTGCACCTCTGAGCATAGCACACATCCTTTCTGAG
TTCAGGTGGGTACAATTAGCTGCTA[C/
G]TAAAAATGAACCATTAGTGAAGTCAGTGAATATTAAATGTGGGACTTACAAGGCTAGGAATGACAAATAATGG
GAAAAAACATTTTGTACTCTAATTTTA C/G 883 0.251 0.000
0.325 0.006 5.1% 198 66.7% 150 66.7% 54 57.7% 78
NA 0 3.0% 66 5.0% 40 6.5% 92
7.1% 42 NA 0 66.2% 74 67.1% 76 66.7% 54
57.7% 78
rs313046 TSCAF 4 126.4464 128086334 reverse MIT

TGCCTGGCCCATTAAGTTGGTTTTTAAAAAACAGAAATTGGTCTCAGGAGTTTTTAACCGATACAATTTCGTTAT
AAATATGCCAATAAGCACATTGCTA[C/
T]AATTATATGACTTAAGGCAGTGGACTTAAATTAATTACTCTTGGTTCCTTTCATTTATTTTTTTGATGGCTAG

GGCATTCAAAATATTCATTGGAACTTG C/T extended_map 0.15
0.047 0.420 0.002 10.2% 176 60.0% 150 83.9% 56
65.8% 76 NA 0 12.5% 64 0.0% 24 11.4% 88
0.0% 36 NA 0 64.5% 76 55.4% 74
83.9% 56 65.8% 76
rs1948506 AB_ASSAYS_ON_DEMAND 4 127.3933 129609411
forward MIT
GAAGATAGAATGAGAGGCTTTCCCAGATGCCTGTGAGTTTCATCTCTCACAGGCTTCCAGGCTTCTCACAAAGCC
CTCACCCTTGGCTGTGTGAAATAGA[C/
T]GGATTAAAACACTGTATTACAGAGCATTGCTTCTTCTTGGTTGTTGACATGAAGTGTGATGGGTTAAGAAGCT
GTCAACTAAAACCAGACAAACCCTTAT C/T 1,836 0.09 0.005
0.089 0.020 27.0% 196 69.9% 156 62.1% 58 53.7% 80
NA 0 22.7% 66 30.0% 40 28.9% 90
21.4% 42 NA 0 67.9% 78 71.8% 78 62.1% 58
53.7% 80
rs280601 AB_ASSAYS_ON_DEMAND 4 127.8504 130373089
forward MIT
ATACCATGCTTAAATTTCTCCAACTAAAGTCCCTGAGATAGCTTTCATTGTGCTTCTCTCATGCTCTGAGCTCAC
TGACTTCATATTTTTAACATACTAT[C/
T]GTATTTTCCTCTGCCCAGGATGTCCTCATTCTGTCTGCATTCATTCCTCAATACCATGTGTGGTTTACTCATT
CTCAGGTAGAATTAACTGTTTCCTTTC C/T 683 0.2 0.022
0.148 0.017 9.5% 190 67.5% 154 50.0% 58 52.5% 80
NA 0 14.1% 64 2.8% 36 8.9% 90
28.6% 42 NA 0 67.1% 76 67.9% 78 50.0% 58
52.5% 80
rs7694118 AB_ASSAYS_ON_DEMAND 4 130.9881 134527456
reverse LGD
GGGTCCCCCCGGCCCCCGCACTTGGCTCTTTCATGAAGATGGGTCCTGCCTTTGAGCGCTTAGAAGGAAAGGATT
CCAGCAAAAATGGCTAATCCTTTTC[C/
T]AGCTGCAGTAAATTGAAGACTGGCCAAAGCCAAGCGAAAACCGCTGCAGTTAAAATGATTTTAGCATCACGTC
TGCGGCTGAGAATGGAGCGGCAGTGTA C/T 857 0.203 0.125
0.062 0.070 62.6% 198 2.6% 156 32.8% 58 22.5% 80
NA 0 69.7% 66 65.0% 40 56.5% 92
73.8% 42 NA 0 5.1% 78 0.0% 78 32.8% 58
22.5% 80
rs7692850 AB_ASSAYS_ON_DEMAND 4 132.5621 137248484
forward LGD
TCTGAAAAGTTTGAGGTAACTTATGAAGAGCAAATTTCATGAGTTACCAAAAACAATGAAATAAGATGAAGGAAT
TGATGTTATTCTTCAGATGCCTTAG[A/
C]CTTTACCCTTGCTGTTCATTTTTATCAAAATCCAGATGTCAAAAACTTTAGTACTTTGCAAGAGAAACTCATA
GTTGAAGATGATCTTGACAGACTGTAA A/C 261 0.257 0.117
0.075 0.153 91.3% 196 25.0% 148 65.4% 52 71.1% 76
NA 0 96.9% 64 82.5% 40 91.3% 92
92.5% 40 NA 0 25.0% 72 25.0% 76 65.4% 52
71.1% 76
CV420171 APPLERA_RESEQUENCING LGD

AAATCATAATCACTGTCTCCTGCCTCACTGTCACCACGGCCACTGTCTTTCAAGCTAAATTTGTCCATGTCTTGA
AGGGCATATCTGGAAAGATAAATCA[C/
G]AAAAAAAAATTACAGTTTTTACTCTTCAGCATTTATGTTGAAACTTAATAGGTAACACAAGAATAATTCATAC
CTGTAGCTCCTGGAATATTTGTTTCCT C/G does not map reliably to HG16
public assembly (physical position was chr4: 135,785,467 in Celera R27
assembly, which interpolates to chr4: 138,950,444 in HG16 and 134.3593 cM
in the deCODE genetic map) 1,698 0.127 0.030 0.066 0.018
84.7% 196 36.7% 150 57.4% 54 52.5% 80 NA 0
84.8% 66 94.7% 38 80.4% 92 92.9% 42 NA
0 27.0% 74 46.1% 76 57.4% 54 52.5% 80
rs901686 AB_ASSAYS_ON_DEMAND 4 137.9554 142355834
reverse MIT
GAGCCACCAAAGATACCATGGGGACCCTCTGCTCACTGTGATTGCATCTCCCCTTGTTGGCTTTCAGTCACAGCA
CCCTAGCAAAAGAAGGTGCCGTCCT[A/
C]AATCTCCAACCAGTGGTAGCCTGTATCTGCTGGCATACAGGGAGGTACAAATTAAACGCCTCAATCTCTTCGG
ACCTTCCTGTTATGGAAGACACGCCCC A/C 222 0.29 0.057
0.152 0.120 1.8% 330 63.0% 300 34.5% 58 22.5% 80
0.0% 138 1.6% 64 0.0% 38 5.6% 90
2.5% 40 65.8% 146 59.0% 78 61.8% 76 34.5% 58
22.5% 80
rs4956510 AB_ASSAYS_ON_DEMAND 4 138.4973 142595892
forward LGD
TTTCATTTAAAGACAGCCATGTCCTCAACGGAAAAATGATCATCCAATTAACACTGTCTTCATGTGGTTTTATAA
GAGATTAGCATCTGCAATATCAAAC[C/
T]ATTATTTACCAAAACAGACCATAATCTGCAGACCTGTGTTGTTTGGGATTTTTTTTTTACTTCTGCCCAAACA
GAATGTGAGTTCCATAAAACAAAGGAC C/T 452 0.275 0.112
0.090 0.250 92.3% 196 24.4% 156 63.8% 58 82.5% 80
NA 0 98.4% 64 90.0% 40 89.1% 92
85.0% 40 NA 0 17.9% 78 30.8% 78 63.8% 58
82.5% 80
CV1471212 AB_ASSAYS_ON_DEMAND 4 139.4918 143525173
forward LGD
AAAAAGCAATATTGTTGTCTCTATGAAACACATTTTCTTGATGAAATCCACTTTTAGAAGTTTGCACCAGTACAG
GCTTTCTATAAGGAAATGCAGATGA[C/
G]TATGGTAATGAATGAAAATTCATAAGCATTTGTATTACAGTAAGCACTATAATTTGAGACTTCTATATTATTC
ATTTATTTACTTATTTAAAGATGGAGT C/G 988 0.252 0.000
0.371 0.069 16.2% 198 85.3% 156 86.2% 58 57.5% 80
NA 0 12.1% 66 12.5% 40 20.7% 92
19.0% 42 NA 0 89.7% 78 80.8% 78 86.2% 58
57.5% 80
rs1801708 AB_ASSAYS_ON_DEMAND 4 143.6467 148979996
forward LGD
GATTGTGGAGAGGCGGTGGAGAGGCTTCATCCATCCCACCCGGTCGTCGCCGGGGATTGGGGTCCCAGCGAGACC
TCCCCGGGAGAAGCAGTGCCCAGGA[A/
G]GTTTTCTGAAGCCGGGGAAGCTGTGCAGCCGAAGCCGCCGCCGCGCCGGAGCCCGGGACACCGGCCACCCTCC

GCGCCACCCACCCTCGCCGGCTCCGGC A/G extended_map 0.236
0.001 0.285 0.006 6.1% 198 66.7% 156 63.8% 58
75.6% 78 NA 0 3.0% 66 7.5% 40 7.6% 92
4.8% 42 NA 0 67.9% 78 65.4% 78
63.8% 58 75.6% 78
rs1878404 AB_ASSAYS_ON_DEMAND 4 143.7041 149018252
reverse MIT
TAGTGTATTAATATAATACATATATATTAAATATATTATAGTTATATAATACAATTTAATAACAGAAGAGATGTG
CCTTTGATCTCACATCAACTAGTCA[C/
T]GCTGCCTACTTTTCAAACAGTAGTAAAAGTTTGGGATTTTGGGAGACAGCTCAACTGAGAAGCCGACAGTGGT
TTTTTATCTGTGCTTACTAAACCATGA C/T extended_map 0.29
0.004 0.322 0.000 93.4% 198 24.4% 156 31.0% 58
22.5% 80 NA 0 97.0% 66 92.5% 40 91.3% 92
88.1% 42 NA 0 24.4% 78 24.4% 78
31.0% 58 22.5% 80
rs964170 TSCAF 4 144.0874 149273583 reverse MIT

ATCAAGGAGGAAAGGGCTGTGGCAAAGGATCAGCATGGAGAAGACAGCAAAACAAGTGTTTCTATGTCAGCTGGG
GGTCCTGTTGAGACTCTGTCAATGA[A/
C]AAAATGTTCTTCTCATCTCTGCCAAGAATCTTTGCCCCAAGAGGTAATCTTGCTTACCTCTTTAAGCAAGTTC
AAGGAAGAAACGAAACACACACTAGTG A/C 136 0.32 0.027
0.318 0.001 81.9% 310 5.3% 300 16.7% 54 6.2% 80
81.7% 120 78.1% 64 92.1% 38 80.7% 88
90.5% 42 5.2% 154 2.8% 72 8.1% 74 16.7% 54
6.2% 80
rs4627844 AB_ASSAYS_ON_DEMAND 4 144.2436 149408697
forward LGD
ATCTATTACTTTGTGTACATTATGCATGTCAAGCTGTTGCTGGGAGCTTACTCTCTGCACCCTCTATTAGACAGA
GGGGTATTACACGTAATAATCCTCT[A/
G]TTGCATGTGTTCTGTTTTACTCAACGGGGACCTCCTCAACATTTCTTGGACTACTGTAGCCCTTGTTGATCTT
TCCCATCTGTGGGCTTTTCTTTTCTTT A/G extended_map 0.327
0.045 0.257 0.034 12.9% 194 90.3% 154 70.7% 58
73.8% 80 NA 0 9.1% 66 7.5% 40 18.2% 88
9.5% 42 NA 0 82.9% 76 97.4% 78
70.7% 58 73.8% 80
rs2011741 AB_ASSAYS_ON_DEMAND 4 150.394 156877247
forward LGD
CTCACATACTCAGTGACTGCTCTCCTATTACTCCAAACCCTTCCTCCTCACAAGCCAATATTCTATGTTCTATTT
CTCAGTTTCTGTCATCAATAGATAT[A/
C]TAGGCCCTTCTCCCACATTCACTGAATATCTACAGCCAACCTATCCAATACCTGAGATCACACCAAGGTATGG
TGTGGCCATGTTCCATTCAATAGAATT A/C extended_map 0.3
0.063 0.173 0.150 91.9% 198 20.1% 154 48.3% 58
65.0% 80 NA 0 97.0% 66 95.0% 40 87.0% 92
84.2% 38 NA 0 20.5% 78 19.7% 76
48.3% 58 65.0% 80
rs733563 AB_ASSAYS_ON_DEMAND 4 150.3984 156882452

forward MIT
TGAAAAACCTTGGCTCTCACTTATGCCCCGACCCAAGCCAGCCACACACCCCCAGCGTAACCACCTTCTCCTGAC
TTTAGCCCTGACATCCCTGCTTTCT[A/
G]GTAATCCCCAGCTCCAGGCAAGCCCGAAGGCCAGCACCCTACACTCACCCTTCCTGGGTGCCACTCTTGTCTG
CTTGCCAAGATGTCTTGATCTGGCTTT A/G 103 0.334 0.050
0.223 0.140 94.7% 318 21.5% 302 46.3% 54 64.9% 74
97.0% 132 96.8% 62 94.7% 38 89.5% 86
85.7% 42 21.2% 156 22.2% 72 21.6% 74 46.3% 54
64.9% 74
rs2063952 AB_ASSAYS_ON_DEMAND 4 150.4376 156929062
forward LGD
TGATTTTTTAGCTGGAAGAGACAAAAAAAGTGAGGTGAGATTATTTTCTTACTACTTTCTGTTGAAGAATTTGAT
CTCAAAATTGACATGGTAATATAAG[G/
T]TCATGACTAAAATCTGGACACATCAAGGTGTTAATATTCAAATTAAAACAGTTATAAGCTTTTCTGATAAACC
AAAATATTAGTGAGTGATATTGATGAC G/T extended_map 0.217
0.003 0.235 0.200 5.2% 194 61.5% 156 55.6% 54
11.3% 80 NA 0 1.6% 64 0.0% 40 10.0% 90
2.5% 40 NA 0 65.4% 78 57.7% 78
55.6% 54 11.3% 80
rs2026721 AB_ASSAYS_ON_DEMAND 4 152.4048 159759590
reverse MIT
CATCTTCCTCAATTCAGTCTACAAGTGATGGCAAATGCTGTAAGAATCCATATTCAGTGAACATCCAATTACAAC
AAATGATTGACATAGTAGGCTATTG[A/
G]GAAAACATTTCTGCCTCGTGCTTGCAAAAAGTCTTCAAAAATAACAGGGCAAATAGTTCCAGGTCTCTGTGAC
CTAAAAAGTCTAACGAAGCCAAAGAAT A/G 1,178 0.168 0.003
0.321 0.005 42.4% 198 96.7% 150 100.0% 54 100.0% 78
NA 0 42.4% 66 45.0% 40 41.3% 92
35.7% 42 NA 0 95.9% 74 97.4% 76 100.0% 54
100.0% 78
rs1434621 AB_ASSAYS_ON_DEMAND 4 155.67 163227282
forward MIT_and_LGD
GAGAAAAAGATATTAAGGGCTGTGCAAAGATTTGGGCCTGGAAAATTGTTGCTTACTTAATAAAGGAACTAAGGA
AGTAATGACAGCATAGAGTGATGAT[C/
G]ATAATGTTGATTTATTTTGAGCTAAAATGTTTATAGGACCATTCGAGGGAACATACATGAGAATTCATCTAAT
CATATATATACACATATATATATGATG C/G 307 0.233 0.003
0.375 0.000 91.4% 198 28.8% 156 22.4% 58 26.3% 80
NA 0 97.0% 66 92.5% 40 87.0% 92
92.9% 42 NA 0 30.8% 78 26.9% 78 22.4% 58
26.3% 80
rs1530044 AB_ASSAYS_ON_DEMAND 4 160.6722 167005038
forward MIT_and_LGD
CCCAACTTTCACCAGTAAATAAAATCAGCAGCATGCAATCGGACACTTACTGGGCAAAAAACACTTGCTGATGAA
ATAGCCATAACGTTTTCCTTTATAC[T/
A]CACTTAACATATCTGTGTTGCAATTGCTACAAAACTAGGAGAAATGTGGTTTTTTCCTCATGTTTCTTTTTTA
TATAATTTTTCAGAATTAAACAATGCC T/A 78 0.354 0.009
0.405 0.083 10.6% 310 89.9% 268 82.8% 58 61.3% 80

9.8% 112 9.1% 66 12.5% 40 12.0% 92
7.1% 42 92.9% 112 89.7% 78 85.9% 78 82.8% 58
61.3% 80
rs2280322 AB_ASSAYS_ON_DEMAND 4 160.6737 167005921
forward LGD
CTCCTTCTGCATTAAATACACAGAGGTATTTCAAAGCCAAGTATGTGTGTAATTAAAGTAAGAAAGTGCCAGCTT
TCTGTGTGCACCTCAAGCTTCAGAC[A/
C]GCCACATGTGCTCTTTGTCAAGCCTTGGGAGGGCCAACAAATACACTGAGCTGCCAGGAAGATGTGAAAAGAA
GCATTAGATGCTGGAGTTCCAGTTGAA A/C extended_map 0.314
0.003 0.389 0.064 88.4% 198 12.8% 156 17.2% 58
38.8% 80 NA 0 90.9% 66 87.5% 40 87.0% 92
92.9% 42 NA 0 10.3% 78 15.4% 78
17.2% 58 38.8% 80
rs2062589 AB_ASSAYS_ON_DEMAND 4 163.65 170469273
forward MIT
CCTGCCAAAGGTATATGGACATGCAAGGCTGGCACAGATGTAAAGCTCAATATATTAAACTAGATAGCAAAGAAA
TATACACCAAGCCCAGCAATACAAA[C/
G]CACCCTGCCTTCATGCAGTTAAACATTCTTCTGTTTTAGGCCACACTGTACTTGCTGGCTTCATGTGGCTTCA
TGAAGGCAAGTGCTGTGTCTGTTTTGA C/G 1,313 0.201 0.020
0.434 0.059 85.3% 190 24.0% 154 10.3% 58 3.7% 80
NA 0 82.8% 64 94.4% 36 83.3% 90
95.2% 42 NA 0 26.3% 76 21.8% 78 10.3% 58
3.7% 80
rs1071738 AB_ASSAYS_ON_DEMAND 4 163.6576 170545279
forward LGD
GACCGCACTTATATGCATTGCTAATATGGAATTTAAGATACCATACACAGTCTCTCATGGACCTATCTCTATTGT
AGAATTATGACTTATGTCTTACTTG[C/
G]CAAATTTTTCTGAATGTGACCTTTTTTTGCTGATTTGCTGGGTTTGGGATTAACTAGCATTATTTTGCCACCT
TTATATTGTATTTATAAAAAAAAAAGT C/G extended_map 0.16
0.084 0.520 0.122 8.7% 196 59.0% 156 89.7% 58
93.8% 80 NA 0 12.1% 66 2.5% 40 8.9% 90
2.5% 40 NA 0 59.0% 78 59.0% 78
89.7% 58 93.8% 80
rs752625 AB_ASSAYS_ON_DEMAND 4 163.8053 170667807
forward LGD
AAATGCCTAGTGTGTGTTTGGCTAGATGATTTTCAGTCTAAATTAGATCATTATGTCCTTAGAATATCAAGGTTC
CACTGACCTATTGTTGAGAACTCTT[A/
G]AAGCGTTTGCTGTGATCTAGCTACTCCGAATGTACCCCTTTGGAAACAACGTCAGGCATTTGAGAAATATCTG
ACTAGGGCCAGAATCAGAGGCCCATGA A/G extended_map 0.325
0.018 0.299 0.000 93.9% 196 20.5% 156 34.5% 58
20.3% 74 NA 0 93.9% 66 90.0% 40 95.6% 90
92.9% 42 NA 0 20.5% 78 20.5% 78
34.5% 58 20.3% 74
rs6832007 AB_ASSAYS_ON_DEMAND 4 164.6326 171353888
forward LGD
GATTTCCCTTTAAGTTTTATCCCCCCAGAAGAGGATGATCAATAAAGGAATACCAGCAGGGCTGTTCACGATAAG

GGAATGGAGACAAGGGGAAAAGAAT[C/
T]GAGAAGCGATTTTAATTCTCGATGTTTAACGTAGCAATAACTAGATTATGTGCAGTGGTCCATTTTCAAAGTG
TTTTTATACTTACAGATGACGTAGTTC C/T extended_map 0.101
0.018 0.265 0.014 35.6% 194 80.9% 152 92.9% 56
91.2% 80 NA 0 33.3% 66 44.4% 36 33.7% 92
38.1% 42 NA 0 78.9% 76 82.9% 76
92.9% 56 91.2% 80
CV289971 AB_ASSAYS_ON_DEMAND 4 164.6422 171361851
forward LGD
CCTGAATTTTATCACTGACAAAAAATATAGTCAGTTGTTTTCTTTGGTTCATTTGAGAGAATTCCTGCCAGTAGC
TAGACCCAAATAACCAGTTTGTCAA[C/
T]GAGTCACTCTTTTTTTTTTTTGCATTCCAATCTTGGGTTTATTCAACACAATTCTTCCACTCTACACAACAAA
GTACAAACACAATGTCATCTAAAATGC C/T 1,700 0.151 0.019
0.352 0.021 76.5% 196 21.7% 152 8.9% 56 8.7% 80
NA 0 78.8% 66 77.5% 40 74.4% 90
90.5% 42 NA 0 28.2% 78 14.9% 74 8.9% 56
8.7% 80
rs1533837 TSCAF 4 165.8226 172340774 reverse MIT

TTCCTATAATATACTCCTATGATTCCACCTAACCTTAGAGATGCACAGCATAACAGATACATCAAGCGGTGTGTG
AAACTGTGGTCATTCCTGACTAGGA[A/
C]AGCTCCTGCTTGGGTAAAATAAACCAGAAGCCACGTGATCCACTTTGGGGAATTCAAAAGATGTCTTTATGAA
GTGGCATCTCCTCTCTTGGCCAGATAG A/C 142 0.321 0.031
0.237 0.009 97.3% 328 29.7% 306 50.0% 56 40.0% 80
98.5% 136 100.0% 62 97.5% 40 93.3% 90
97.6% 42 29.6% 152 31.6% 76 28.2% 78 50.0% 56
40.0% 80
rs6840834 AB_ASSAYS_ON_DEMAND 4 167.7022 174443930
forward LGD
TATTTCTTCTGATCCAGAACTTGGTCTCTTATGGGTAGATTCTCAGTAAATTCCCAATTCAAACTCAGTCAATTC
AAAAGTCTAACTCCATGCCGGGATT[A/
G]TTTTCCTTTCCAAACTGCTCTGCTCACCTTTCCTCCATTCTCCTCCACTCTCAGGATGGCATCTTGATCATGG
GCCAAGTCACAGTGGGGGGCAGGTGTC A/G 655 0.276 0.131
0.072 0.013 94.9% 198 29.5% 156 72.4% 58 42.5% 80
NA 0 98.5% 66 92.5% 40 93.5% 92
97.6% 42 NA 0 33.3% 78 25.6% 78 72.4% 58
42.5% 80
rs1485768 TSCAF 4 171.9071 178336313 reverse MIT

TTTCCTTCAAATATAAAAGGAAATTTCTTAATGCTGTGTTTTCTTAAGGTAAAAAAAAACAAAAAAAAGACTTTT
CGTTTTGTTAAAAGAGTTCCAGGCA[C/
T]ATTTTGTAGCAAAGCCACCAATTGGCATGATGTAAATTGTAAGGACAATGTACCTTAGGTAATGTTAAACTCA
AGTTTTTTATAGATACTTCATAGAAAT C/T 367 0.217 0.006
0.410 0.001 24.3% 288 89.1% 248 95.8% 48 91.7% 72
21.9% 114 27.6% 58 20.0% 30 26.7% 86
13.2% 38 89.3% 112 90.3% 62 87.8% 74 95.8% 48

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        91.7%   72
rs1995083       TSCAF   4       171.9559        178375532       reverse LGD

TATTAATGTACCTTACATCCTCCCTGACAACAATCGAGATTGATAACCACATTTAATTCAGTTCTAGTCAGTAAG
ACGGAGGTTTTCTAGCACCAGCTGC[C/
G]AAGATTAAAAAATGTGCATGTCCTAGCTCTGGGAAGTGTCTGGTATGATTGATGCTTGGTACTTGTTCATCTA
AATATGAATTTACTACTGGGAAAGAAA     C/G             extended_map    0.323
0.000   0.460   0.001   89.4%   198     13.2%   152     12.5%   56
10.0%   80      NA      0       83.3%   66      97.5%   40      90.2%   92
        92.9%   42      NA      0       11.8%   76      14.5%   76
12.5%   56      10.0%   80
CV11823643      AB_ASSAYS_ON_DEMAND     4       171.973 178389282
forward LGD
TAAAAGTGAAATCAACACCAATATGTTAAAGAAAATATTTTAATGTTATATTTACTTAATTTGACATTATTTAAT
TGGTCTTACACTGAAATCGACACTA[C/
G]TCAAATACTTTTTCAAGAGGAGTGGCCTTCAAGTTTTTCCTTTCTCTGTTATGCGATTTGACACAATGAAATT
AGCAAGTTTAAGTTCTCATGTTTTATA     C/G             extended_map    0.33
0.001   0.504   0.001   10.6%   198     87.7%   154     90.7%   54
90.0%   80      NA      0       16.7%   66      2.5%    40      9.8%    92
        7.1%    42      NA      0       89.7%   78      85.5%   76
90.7%   54      90.0%   80
rs3805167       APPLERA_RESEQUENCING    4       172.7942        179048936
        reverse MIT
ACCTCATTCCTTTCATGGACTGTTCACTGCTCAGTTCTGAGGAGGATGACACTAGTGTATTTCCATGTGGCTTAG
ACATAAGGTATACAGTAGCCAGTGT[C/
G]TAGTCAAATAAGCAGTATCTGTATTGGTTATAAATATGTGCATCCTATAGTTCACCAAACTTCTTTCTCATTT
TTGGCCCCAGGTGCTGCTTGCAATAAA     C/G             582     0.206   0.098
0.064   0.004   18.8%   186     82.0%   150     46.6%   58      76.2%   80
        NA      0       7.8%    64      18.8%   32      26.7%   90
23.7%   38      NA      0       84.2%   76      79.7%   74      46.6%   58
        76.2%   80
rs1355327       AB_ASSAYS_ON_DEMAND     4       174.3122        179964890
        forward LGD
GTCATAATAATACCATTATTTATTTTCAATGAATTCAGTAAATTCAAACACAAAAATTCCCACTGGTCTTTTTTT
ACACATTTTTTTACAGGTCAGACCC[A/
G]GGTTTTATTCTGACTGTTGTATGCATAACCACAGTACCATTTGTAACAACTCAGTTAATTTGTTTAACTTCTT
TATGGAGCAAGTTGAGTTTTGTATCAT     A/G             1,457   0.115   0.004
0.163   0.000   60.1%   198     99.4%   156     98.3%   58      100.0%  80
        NA      0       62.1%   66      55.0%   40      60.9%   92
76.2%   42      NA      0       100.0%  78      98.7%   78      98.3%   58
        100.0%  80
rs9542  APPLERA_RESEQUENCING    4       185.5156        184508241
reverse MIT
TATGGCAAAAGTAGGCATCTAAAGAATATAAAGCCTCAAATCTTCCTTACTGTCTCTCTTGTCACATGGAATCTA
CATGTGTTTGAACTATTGCTTTAGG[A/
G]TTTAAAATAGGGGAGCCTGTGGTGGCCTGGTGCACAGGGCTAGAACGAGAGTGCCTCCCCTTCTTGTGTCCTG
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GCTGGCTGGGATGCTGGTGGCTCTTCA A/G 1,314 0.108 0.001
0.180 0.002 86.9% 168 44.0% 150 39.3% 56 48.7% 78
NA 0 87.1% 62 81.2% 16 87.8% 90
94.7% 38 NA 0 43.1% 72 44.9% 78 39.3% 56
48.7% 78
rs4862193 AB_ASSAYS_ON_DEMAND 4 186.1256 185056766
forward LGD
GCGTAGAGGTCAATTGCGACACTACAGGAAAAGAAGGTAAAGTGGAGTCACATCTGACTTCCATTTACATGCTGG
TTTTAGAAACTCACCCCCATGAAAG[A/
G]TATAACTTCGCAATCTACTTAATCCTCACAGCAGCAAACAAATTTATTAACATTTATTAATGTTAAGGCTTAA
TGTAAAAACAGTGGCATAAATCCTGCA A/G 462 0.188 0.183
0.012 0.143 20.2% 198 80.8% 156 31.0% 58 37.2% 78
NA 0 21.2% 66 17.5% 40 20.7% 92
16.7% 42 NA 0 83.3% 78 78.2% 78 31.0% 58
37.2% 78
CV7665035 AB_ASSAYS_ON_DEMAND 4 186.3524 185111228
forward LGD
TTTCCTTTGGTGATCCCAGAAGGCCTCACAAGACTCAATAGCAGGTTATATATTAATACGTGGCTAAGATTAATG
ACAGCAAAGGATACAGGGCAAAAGC[A/
C]ACAGGAAAAGATGTATCAGTGGAGTCCAGAGAGGTCCAACATAGGATTCTGTTGTCCTTTGTCTGCAGCTACA
CAGGAATTCTGTCTCTCTCTCAGCAAA A/C extended_map 0.177
0.258 0.000 0.191 12.2% 196 68.2% 154 10.3% 58
17.5% 80 NA 0 13.6% 66 12.5% 40 11.1% 90
16.7% 42 NA 0 67.9% 78 68.4% 76
10.3% 58 17.5% 80
rs3775574 AB_ASSAYS_ON_DEMAND 4 190.0498 186065956
forward LGD
GATCATGACAACAGTTCCCACTCCCACAGCTTTTCAAGCACTTGGCTCAGGGAAGACCCACTAGGAGTAAGGGCT
TTGCTTTTTGTTTCTTGTTTACAAC[A/
G]TTTCCTCGACGTGTGCAAGACGGAAGCCTGAACAACTGTCAGTTCCACTTGCTCGTACTTGGCTGAACACTGC
AGTTACTCCCCTGGCCTCGGACTCCGG A/G 918 0.169 0.011
0.322 0.003 93.4% 198 43.6% 156 31.0% 58 50.0% 80
NA 0 97.0% 66 95.0% 40 90.2% 92
88.1% 42 NA 0 43.6% 78 43.6% 78 31.0% 58
50.0% 80
CV25646066 APPLERA_RESEQUENCING 4 191.1145 186317936
forward LGD
GCTCAAACAGGATTTGACAGTATCTTACCGAAGCAGTTCATCCTGGACTTCAATCATACGCTGCCTTTTCTTTTC
GATATCTGAAATCATCTAAGTAACA[C/
T]AATCATTTGTGTTAAAATTAATTTGTAACTGTTTGAGCACTGCCACATAAGCTGCCAGGTAATGAAGTGCAGT
GGAAAACAAGACAGACCCAGTTCTTAC C/T 1,856 0.067 0.181
0.014 0.152 29.8% 198 66.9% 154 17.2% 58 21.2% 80
NA 0 30.3% 66 25.0% 40 31.5% 92
23.8% 42 NA 0 64.1% 78 69.7% 76 17.2% 58
21.2% 80
rs1288549 AB_ASSAYS_ON_DEMAND 4 193.0025 186995409

reverse MIT
ACAGGACGTGCAAACAGGTCTCATGGTGAATGCGATGCTGTGGAAAATGACATGGAGAATGGCTGTCTCTCAGCT
AGGGAGGAGGGTCTTGGTGTCCTAG[G/
T]AAAGAATGTTCACGTCCTGGAGTTGGTGGTTGGTGTTCTATCTAGGCGATGAGAGAAGGATGCTTTTCCTAAT
GAGCACCTGGTGGGAATAGAGTCTCTC G/T extended_map 0.194
0.017 0.157 0.062 9.6% 198 66.7% 156 51.7% 58
91.2% 80 NA 0 3.0% 66 5.0% 40 16.3% 92
9.5% 42 NA 0 71.8% 78 61.5% 78
51.7% 58 91.2% 80
rs1053218 AB_ASSAYS_ON_DEMAND 4 193.0233 187016957
reverse MIT
TTTTTAAAAACACGTTAACATTAAAAACTTTTTTTTAAAAAGAGTTTTATCCCCAAACTTCCACCATGCAGTCCC
ATTTTTGGTCTCTAGACTCTGGTAA[A/
G]TATAACCAGTACTAAAATGTTAATGAGAATGAAACAATACTACTAGAAATACGAGTGTCAGTATTAAATGGAA
TAATAAATGCTATGCAAACAAGAGATC A/G 515 0.178 0.031
0.438 0.001 78.6% 210 19.5% 210 4.3% 46 16.1% 56
76.9% 108 78.1% 32 92.9% 28 73.8% 42
78.6% 28 18.5% 108 18.5% 54 22.9% 48 4.3% 46
16.1% 56
rs2289256 AB_ASSAYS_ON_DEMAND 4 195.9328 187785023
forward MIT
CCCAACCTCTCTGGCCCTCAGCTTCCTCTTTTATAACAAGCAGGGTACATAAAATCATTATTGGAAAACTGTGAA
AAGGATCTAGCTAGATACCAGGCAT[A/
G]TATTGCTCAGAAATGATGAATTATGAACCATTTGTATTATAAATAACCTGAAATTTCAGGGATAATTTATTGT
TTTACAGGGAATTTTAAACATATAATT A/G 1,037 0.164 0.026
0.144 0.007 42.4% 170 96.1% 154 85.7% 56 100.0% 80
NA 0 51.7% 60 23.5% 34 43.4% 76
31.0% 42 NA 0 93.6% 78 98.7% 76 85.7% 56
100.0% 80
rs1877730 AB_ASSAYS_ON_DEMAND 4 198.1881 188301366
forward MIT
TGACAATATTAAACTACATTCTCTTGTTGTTTAATCGTCTCATCTAGACTGAATCTCCTCTCCAATTATAACTAT
ATCCAATCCCAGATGAAGGTCTCAC[G/
T]GCACAGTTATAGGAGTGCTTCCGTGCTGGACCCTGGGAAGGGGATGCTTTAGAAGGGCCAGGACAGTATCTGC
GAGGGGCTGAAGGTACTCTTGCAGATT G/T 277 0.248 0.158
0.042 0.359 91.7% 132 26.6% 128 73.9% 46 93.8% 64
NA 0 90.0% 40 100.0% 6 91.9% 86
93.3% 30 NA 0 26.7% 60 26.5% 68 73.9% 46
93.8% 64
rs954456 AB_ASSAYS_ON_DEMAND 4 202.5662 189161999
forward LGD
TCAACCAAATATACATTGTGTCCTTATTTTGATCTAGTCACCAGTGATACAACAATAAACAGGACCAGTCTCTGA
CCTCAAAGAATTCATCTAGTCATTC[C/
T]ACTGAGCTGATGTGTGCCAAGATTGAGTTACAATCAGCCTAGAACAGTAGCAACCATAGACACTTCCAGGGTG
TCAGGCTGATTCCCCATCTTCTAAAAT C/T 645 0.242 0.008
0.266 0.005 83.8% 198 16.0% 156 24.1% 58 22.5% 80

NA 0 87.9% 66 90.0% 40 78.3% 92
87.5% 40 NA 0 12.8% 78 19.2% 78 24.1% 58
22.5% 80
CV27849331 APPLERA_RESEQUENCING 4 202.6894 189756321
forward LGD
CCAAGCTTCCAGCCTAAAACCCACATGCTCACATGGTTCCACAGTGCTGTTTATGTACAATAACCAGTTCTCAAA
ATGGTAATCCTGTTAGAAGCCAGAA[C/
T]CCTCAGCCTCTAGCATGTGTGCTTTTCACAGAGATAAGTCTCAAAGTTTGGGGTTGGTGAGGAGCCCAGTATA
CAGGAGTTCCACATTAAGTCATAATTG C/T 481 0.184 0.001
0.296 0.278 81.1% 196 21.4% 154 17.9% 56 82.5% 80
NA 0 86.4% 66 85.0% 40 75.6% 90
78.6% 42 NA 0 22.4% 76 20.5% 78 17.9% 56
82.5% 80
rs2411530 AB_ASSAYS_ON_DEMAND 4 205.2896 191558072
forward LGD
TCCTCCGCGCCCCTGTGCTGCCCCGACTCACATACTCGTCCAGAACCGGCCTCAGCCTCTCCGCGCAGAAGTTGC
CCGGAGCCATGGCCGAGTACTCCTA[C/
T]GTGAAGTCTACCAAGCTCGTGCTCAAGGGAACCAAGACGAAGAGGTGGGTCCTGCAGCTTGGGCGGGAGCCTC
CTCCGTTCTTTTCGGACGCACTCCACC C/T extended_map 0.134
0.063 0.438 0.000 83.7% 196 33.8% 154 8.6% 58
35.0% 80 NA 0 87.5% 64 90.0% 40 78.3% 92
81.0% 42 NA 0 29.5% 78 38.2% 76
8.6% 58 35.0% 80
rs14389 AB_ASSAYS_ON_DEMAND 5 0.943 970616 forward LGD
AATGGTCGGTAAAGTGTTCTTTCATAATAAATAATCAGACATGGTCCCATTTGCAGGAAAAGTGCAGACTCTGAG
TGTTCCAGGGAAACACATGCTGGAC[A/
G]TCCCTTGTAACCCGGTATGGGCGCCCCTGCATTGCTGGGATGTTTCTGCCCACGGTTTTGTTTGTGCAATAAC
GTTATCACATTTCTAATGAGGATTCAC A/G 1,116 0.118 0.023
0.081 0.005 63.3% 196 14.7% 156 29.3% 58 21.2% 80
NA 0 71.2% 66 65.0% 40 56.7% 90
78.6% 42 NA 0 7.7% 78 21.8% 78 29.3% 58
21.2% 80
rs6870164 APPLERA_RESEQUENCING 5 2.7239 1611033 forward LGD

ACCTCTTCCAAACGCCTGTTCATGCTGACACTTTGACCTCCTCCCATGAATCATGAATGTTCTTAGTGGCATCTA
GAATAGTGAATCCTTTCCAGAAGGT[C/
T]TACAATTTACTTTTCCCAAATCCATCAGAGGAATCACTAACTATGGCAGATACAGCCTTAAAAAATGTATTCC
TTAAATAATAAGGCTTGAAAGTTGAAA C/T 1,610 0.078 0.023
0.235 0.043 49.5% 192 87.7% 154 98.3% 58 100.0% 80
NA 0 40.6% 64 57.9% 38 52.2% 90
42.9% 42 NA 0 91.0% 78 84.2% 76 98.3% 58
100.0% 80
rs3756345 AB_ASSAYS_ON_DEMAND 5 3.6773 1862058 forward LGD

CTACATATTTTTATGCCCAATCATTTGATCATCAAGAGGTCAATGGAAAGAGTGTTTCCTATTTTTTACATTAGT
GACGGGCGAGGGACTCATTTTACAG[A/

T]GGTTGGACACTTCACTGTGTATGATGTGCCGTGTGCTTAACAAGAGATGGCGTGCGGGCTGCTGTGACGGTTC
TCCCTTGATTCCCTCGTGAAGTGCAGC A/T extended_map 0.18
0.000 0.291 0.208 32.8% 198 91.7% 156 93.1% 58
42.5% 80 NA 0 28.8% 66 22.5% 40 40.2% 92
31.0% 42 NA 0 92.3% 78 91.0% 78
93.1% 58 42.5% 80
rs4975732 AB_ASSAYS_ON_DEMAND 5 3.741 1878813 forward LGD

TGCCCGTTGTGAATTCTGCGACCACTTCTGGTAAGTTCTCAACAAGTAGGCGTAGCACAAAGCAAGCATTCGTGT
TCTCAGATCCCAAGTTGTCTTTTCT[A/
T]CAAAAGCCAGTGACAATTTAGAAACGGAGAAAGTGACCTTGCTCTCCAAGAAGCAAATGAAAATAGTGGGAGC
AGCATCCTTGCTGGCCTTCTTAGAAAG A/T 323 0.227 0.084
0.083 0.189 9.6% 198 72.1% 154 37.9% 58 21.2% 80
NA 0 3.0% 66 7.5% 40 15.2% 92
7.1% 42 NA 0 71.1% 76 73.1% 78 37.9% 58
21.2% 80
rs418752 APPLERA_RESEQUENCING 5 11.7528 4700740 forward MIT

TCCCTAGTAAGGAAGATACTAATATTATTCCTGTGTTGTACATGAAGAAACCGAGGCAGAGAGGGATCAGGTAAT
TGACCCAAGGTTGTGTAGCTACCAG[A/
G]TGATACAGCAGGGAGCCGAACCCATGCAGGCACTTTCCAGAATCTGGTGCATATTCATGAGGCTACGCTACCT
TCAGACTAACGTGTAAGTTTCAGAAAA A/G 301 0.237 0.000
0.369 0.039 82.3% 186 14.9% 148 12.5% 56 35.0% 80
NA 0 78.1% 64 81.2% 32 85.6% 90
55.3% 38 NA 0 14.5% 76 15.3% 72 12.5% 56
35.0% 80
rs716236 TSCAF 5 12.066 4879258 forward MIT
CCACTAATTGCTGAGTGTTTGCCAGTTGATTTCTACAATGTCCTATGACAAAAATTGTTCCATAGTCTGAACCAA
CTAAATTGACTCTCCATTGCAAGGT[C/
T]GGAAATTGCCCATTTTTGAGACTTCCCAAAGTGTTTTTCTTATTTTTAATGTTATTACTACTGTTGTAATTGC
TCTTCATTGCTTTCAACAATTCAGTCC C/T 821 0.161 0.017
0.141 0.014 27.0% 178 83.8% 154 71.4% 56 72.4% 76
NA 0 21.9% 64 8.3% 24 35.6% 90
32.5% 40 NA 0 85.5% 76 82.1% 78 71.4% 56
72.4% 76
rs272463 AB_ASSAYS_ON_DEMAND 5 17.591 6530580 forward MIT

CATGGAGACAGCAGCTGCTGGCCTGGTGGAAGTGTCCAGCAGGACGCGGGTGTGTGGAACTGGCATTTGGGTGGC
AGGGAGAGGCTGCAGGCGGGAATTT[C/
G]AAGAGTTCCCCCATGTGGCACGTGTAAGCCAAAGACCAAGTGGGCTGTTGACCAAATCTGGGTGGTTCTTTGG
AAACAAATTGCATATGCAAGGCTGTTC C/G 368 0.211 0.031
0.486 0.007 14.3% 196 76.9% 156 92.9% 56 85.0% 80
NA 0 6.1% 66 13.2% 38 20.7% 92
4.8% 42 NA 0 71.8% 78 82.1% 78 92.9% 56
85.0% 80
rs730757 TSCAF 5 21.2024 8228706 forward MIT

GGCTCCTGAGATTTTGAAACTACCAGAAACTACCAGAAATTTAAACAGCCTCAGGAGACAGCACCTACAGGAATA
ATGACAAGCCTGTAGATTGCATACC[A/
G]AAAATTACTTAGTTGTTAACTAATTTATGACTTGGAATTTTGATAATAACTTTCAGCCAGTAGGGTCATTGTG
AAGACTTTAAAACTGCTGTGCAAGTCA A/G 1,611 0.065 0.011
0.167 0.061 72.3% 292 36.1% 252 24.1% 54 10.8% 74
75.5% 102 70.0% 60 80.0% 40 66.7% 90
70.0% 40 42.3% 104 36.1% 72 27.6% 76 24.1% 54
10.8% 74
rs6892396 AB_ASSAYS_ON_DEMAND 5 26.8491 10385876
forward LGD
GCCACCGCGCCCCACCGTATCTTTTCGGTTCTAAGCACAAGACAATTGTCTTGGGAACACCTCCCGGCTCTTGGC
CTCAGTATGTTTTCTTTAGCCCTAC[A/
G]TTTCCCCTTTGCTCTCTCCCCGCGTGTGATGGGGGCTGCCTGGGTGGGGCTGTCACAGCGGCAGGTGGGTGAG
GAGCCCCTAGGCGCGTCCGGAGGAAGG A/G 593 0.248 0.186
0.026 0.080 94.4% 196 32.5% 154 82.8% 58 66.2% 80
NA 0 92.4% 66 95.0% 40 95.6% 90
90.5% 42 NA 0 34.6% 78 30.3% 76 82.8% 58
66.2% 80
CV11653054 AB_ASSAYS_ON_DEMAND 5 26.9238 10407788
forward LGD
TTGGCGATTTTAAACGAAAATGAATTATCAAACGCCGTCATGGAGTGCAATAATGAGTGAAAAAAGTTTGATATT
ATCTATGTAATGAGTTGATAACGAC[C/
T]TATTTTTTTTTAAAGAAGTCTTGCCTTTAATAAATACCTCAACTATAACATGTGGCACTTGATGTACATTCGC
GTTCCATCTTCGTAAAAAGCCTGTGGA C/T extended_map 0.162
0.152 0.008 0.060 90.7% 194 39.6% 154 84.5% 58
68.8% 80 NA 0 89.4% 66 92.1% 38 91.1% 90
92.9% 42 NA 0 42.3% 78 36.8% 76
84.5% 58 68.8% 80
rs2278354 AB_ASSAYS_ON_DEMAND 5 27.0055 10501716
forward LGD
GAGTAAGCCTCTGCCTTCTCTGTCTGGAAGGCGGGGCTGGCCTTTGGCCCCCAAGGTGGGCAGCAGCCTCTGGTG
TCCAGTGCTGTGGAGAGCCTGGGCC[A/
C]CCTTCCTGCCTTGCGCTTCTTTGCCCCACACGCCATCCTGTTTTTACAGACGTGAGTTACTAGAAAGTGGGTC
ACGGAGCAAGGCTAGGCCTTCCTCATG A/C extended_map 0.173
0.395 0.016 0.222 70.4% 196 12.0% 150 83.9% 56
65.0% 80 NA 0 69.7% 66 65.0% 40 73.3% 90
70.0% 40 NA 0 14.1% 78 9.7% 72
83.9% 56 65.0% 80
rs4702813 AB_ASSAYS_ON_DEMAND 5 29.5955 11795406
forward LGD
TTTCCTTCTCTCATGTAGATCAAAGAAATGTCTTCCATTTCTTTCAGAGAATACCCCCCTCCCTGTTCTTGATCC
TATGTTCTAAAAAACAAATGTTGGC[A/
G]AAATATAATTACTTTTGGCTTTACTTCCATCATCAGGCATTACTTTCATAATCTGCCATTACCTTATACCCAA
GTGAATAATGAAATATGGCATTAGAAC A/G 155 0.322 0.047
0.650 0.308 1.0% 198 65.4% 156 87.9% 58 5.0% 80
NA 0 0.0% 66 2.5% 40 1.1% 92

0.0%	42	NA	0	66.7%	78	64.1%	78	87.9%	58
	5.0%	80
rs30794	APPLERA_RESEQUENCING	5	32.9704	14440227	reverse	MIT

CATCAGCCAGCTGTATCAATAGCTTCACTCTCTCTTTGGTTTGCTGCAAAAAACAACAGGAAAGTATTGTGAGGC
AAATGAATCCGACTGCCAGAAACCT[C/
G]AAACACAGTGGCGACTTGACTCCAACTCTGAGCTCTGAACAGGAAAACCGGCTGATGGTAGAAACTGAGACCA
AAGCCCCAGGTCCACCCACTCCATCTC	C/G	787	0.196	0.008
0.188	0.026	92.3%	182	36.4%	154	46.6%	58	18.8%	80
	NA	0	100.0%	62	86.7%	30	88.9%	90
90.0%	40	NA	0	32.9%	76	39.7%	78	46.6%	58
	18.8%	80
rs250440	AB_ASSAYS_ON_DEMAND	5	33.671	14738286
forward	MIT
CTTTATTCTTGAATATTTCCAATCACTGTTTCTTGTTTAAATCTGGTTTCTTGCTTAAATTTTCTTTATTCTAAT
AGAAGTCCAGTTTGTGCTTAGTGGA[A/
G]AACAAAGGTGATTTACGTGTGTTCCATGTGCTGTGACCTCTGAAAGCGTTTGAAGTTGTATTCACTTTTTTCT
TCTGAATAAATTTGACTTCATTCTTTT	A/G	extended_map	0.135
0.000	0.206	0.043	29.8%	198	82.1%	156	82.8%	58
60.0%	80	NA	0	30.3%	66	35.0%	40	27.2%	92
	35.7%	42	NA	0	83.3%	78	80.8%	78
82.8%	58	60.0%	80
rs27356	AB_ASSAYS_ON_DEMAND	5	33.7578	14775179	forward	LGD

ACTTTTCCAAACCAGCACACACCCCTAATAATCTCCCACCAATGAACAAGAGTCGTTCCTCTGAGCAGCTGCAGA
GGTGGGTTTTCTGCTGTCGAGTTTG[C/
T]TGTCAATATTCTGTCAGGACACAGCCTTCAAAATCGAATAGTCCACCCAGTGCCCAGATCTTGGTTTTTCTAT
TTATTCTTCAATAAAAGGAACCAGGAT	C/T	extended_map	0.138
0.000	0.210	0.027	31.3%	198	84.0%	156	84.5%	58
67.5%	80	NA	0	28.8%	66	40.0%	40	29.3%	92
	42.9%	42	NA	0	84.6%	78	83.3%	78
84.5%	58	67.5%	80
rs152363	AB_ASSAYS_ON_DEMAND	5	33.838	14809305
forward	LGD
TTACCGGTGCTCACTGACTGATTAGGGCCTACTGTTTTCTTGCCTTCAAGTTTGGGCAGGATCTGACCTGACACT
TTGGGAGATGAGGAGGAAGATGCTA[C/
T]GAGGGGAGCAGACGAAAAGCCCGAGGAACAGCAGGTCTGGAGAAGGTTTCAAGTTCATGACGGGCTCTGTTTA
AGGATCATCCTTCTTACCTTCAAGGTT	C/T	1,167	0.152	0.122
0.022	0.001	65.8%	196	11.2%	152	48.3%	58	8.7%	80
	NA	0	59.1%	66	82.5%	40	63.3%	90
61.9%	42	NA	0	11.5%	78	10.8%	74	48.3%	58
	8.7%	80
rs1027716	TSCAF	5	38.7473	18287998	reverse	MIT
TGTTCCTAGTAATTTAGAAAAAAATATGCAGATTCAAAGGTTGGCAAAACTAGAGATGGATTCCAAGTCGAGTTT
CTACAGGAGATGTATGGTAGGAAGC[A/
G]GAGAGCAGCTGCGGAGAAAGACCAGTGCTAACAGGTCTCTAACGAATTAACAAGACTATATTCCCTGAAGGTG

AAGCAGCACAGTGTAAAAGCTATGTGT A/G 501 0.246 0.001
0.359 0.001 74.4% 308 6.3% 268 6.9% 58 3.7% 80
67.0% 112 84.8% 66 65.8% 38 79.3% 92
52.4% 42 4.5% 112 9.0% 78 6.4% 78 6.9% 58
3.7% 80
CV11826595 AB_ASSAYS_ON_DEMAND 5 39.872 19796641
forward LGD
TCTTTGGGTATCTCATCACATAACAAAGTAGGCTAAATTAACTGCTCTTTAGAGAACGGCAAAGGAATGAGGGGT
GAAAAAAGTAAAAAGAAAATGCAGT[C/
T]ACCCTAGTGAAGCAAAATGCTAGTAATCTCTAGCATTACTTTAATAAATTGTCACTTTCTTAGCATTAAGTAG
TAACCTATGGCACTTAGAAAGCCAGCG C/T 244 0.267 0.118
0.094 0.028 16.2% 198 87.2% 156 50.0% 58 71.3% 80
NA 0 10.6% 66 27.5% 40 15.2% 92
14.3% 42 NA 0 92.3% 78 82.1% 78 50.0% 58
71.3% 80
CV202254 AB_ASSAYS_ON_DEMAND 5 44.1988 24669604
forward LGD
TTTTTTGTTTTCTGAACTGTACCTTATCTAGTGAGAAATGAAAGTTCTCTCTCTTTTTTCCCTAAGAAATACA
TTCCTGTAACATTTCTATACTATCA[A/
G]AGCATAACAGCAGGTTGAAGGAAACACAGGACATAGCCAGATACCCACACAGCAACTGTTTTTTGCTTGTTTT
GTTTTTTGAGAGCTCAGTACGTACTCT A/G 563 0.231 0.010
0.417 0.001 8.2% 196 70.1% 154 81.0% 58 66.2% 80
NA 0 3.0% 66 7.5% 40 12.2% 90
16.7% 42 NA 0 64.5% 76 75.6% 78 81.0% 58
66.2% 80
rs1566037 AB_ASSAYS_ON_DEMAND 5 46.2009 26712363
forward MIT
TTGTAATTTTATAATACAGGAAATCATTCTATAAGCACATTTTCCCATTAACACTTAAAAAAAACTATGTGGTTA
TTTATAGTAAGTGTTTAACAGAATC[A/
C]TGCTGTGAGAACATGAACCATTGATATTATTTATATTAATTCTGGCTATTCATGCTGTCTTATAATTAGCTTC
TACATGGTTTTAAGATTGTTTTCAATA A/C 1,142 0.18 0.000
0.263 0.007 26.2% 172 85.9% 156 85.7% 56 78.7% 80
NA 0 28.3% 60 11.8% 34 30.8% 78
23.8% 42 NA 0 85.9% 78 85.9% 78 85.7% 56
78.7% 80
CV1429197 AB_ASSAYS_ON_DEMAND 5 50.0784 30876817
forward LGD
GACAGGTTCTTCACAGGTGAAGCAAAGTGTAGGCATGCCACTATTAACAGAGAGACTCAGGCAAATATTATTGAG
GTTATGATCAAAAGATAAAGAAATA[C/
T]GCACACTGTTTTTTCTGATGTTATTCTCTGACAGGCTAGATAAGACAGGAGCAGTACAAGTGATTTCAAACGA
TCTCTAATGTTGGATTTTTGCTGCTGC C/T 1,692 0.099 0.078
0.014 0.044 62.4% 194 17.5% 154 48.3% 58 40.0% 80
NA 0 59.1% 66 63.2% 38 64.4% 90
59.5% 42 NA 0 19.7% 76 15.4% 78 48.3% 58
40.0% 80
rs1027572 TSCAF 5 50.2573 30978902 forward MIT

TTGAGTATTTTTTACTGACAGAAAAGATGAAAGAAACAAAAGAAAGAAGAAAAGGAAAAAAGAGGGGAAAATACG
TACTGATTTCATTATTCTGGGGGGG[A/
G]GGAAAAAAAAACAGCTGGTAACTACCTTCACAGCTTGCAGTAACATCCTGAATTGAGATTCTAGTCAAGGGGC
AATTTCCATTTGTTATGTATATGTATG A/G 1,629 0.102 0.000
0.148 0.054 34.0% 194 79.7% 148 79.3% 58 53.8% 78
NA 0 43.8% 64 32.5% 40 27.8% 90
31.0% 42 NA 0 73.6% 72 85.5% 76 79.3% 58
53.8% 78
rs4374769 APPLERA_RESEQUENCING 5 51.2661 31554446
forward LGD
GTCCTCATCAGACTCACACTCGGATTCACTGGAACTCTCTAACAGGGGTTGGGAGAAAAATACAGAAATTGATGG
AATTAACAAACTGGTTTTTTTTTTT[C/
T]CCTGAGTTGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGCGCGATCTCAGCTCACTGCAAACTCCACC
TCCCGAGTTCAAGTGATTCTCCTGCCT C/T 239 0.271 0.006
0.439 0.073 5.2% 192 70.1% 154 78.6% 56 38.2% 76
NA 0 1.7% 60 2.5% 40 8.7% 92
2.5% 40 NA 0 73.7% 76 66.7% 78 78.6% 56
38.2% 76
rs29754 TSCAF 5 51.5341 31707334 forward MIT
ATCACTTTTCCATCTTGCACCTGATCCTAACTTTGTTACGTGACTATTCAGAGAGTTTCTTAGCCTTTGGGCTTG
AGGATTAGGGACAGTTTGAGTAAAT[A/
G]AAATCCAGCAATAATCCCCAAGGCTAAAGATAGATAGAAATAAGTAGTTCCTCCCTTGGTTTTTTTTTTTTT
CTTTTTTTTTCATCAGAGATATTCAGG A/G 663 0.211 0.073
0.105 0.010 71.3% 178 7.7% 156 32.8% 58 15.0% 80
NA 0 74.1% 58 80.0% 30 66.7% 90
78.9% 38 NA 0 7.7% 78 7.7% 78 32.8% 58
15.0% 80
rs40030 AB_ASSAYS_ON_DEMAND 5 57.8464 36222375 forward LGD

GCTTTTGTGAATGGGATTTTTTTCCCTATTATTTTTCCAGCCTGCTATTGCTGATACATAGATAAGCTAAAGATT
GTCATTTTACACAGTTTTCTTTTTC[A/
G]GATGATTCTCTTGGGCTTTTTGGGTAGAAAATTTTATGTTCCAAGATGATCATTTTTTCTTTCTAATAGTGTG
TGGTTCTAATTGCATTGCCCTGAACTT A/G 473 0.325 0.090
0.161 0.185 91.8% 194 16.7% 156 50.0% 56 66.2% 80
NA 0 92.2% 64 90.0% 40 92.2% 90
90.5% 42 NA 0 14.1% 78 19.2% 78 50.0% 56
66.2% 80
rs930072 AB_ASSAYS_ON_DEMAND 5 58.7467 36711572
forward MIT_and_LGD
GTGACATAATCATTCTTTACCAACAATTTGGAATCTAACTTTTAATGATTTGTCTTCGGTTCCAGAACCCTTAGA
ATCATAGCACTTTGCAGTGTTTTTA[C/
T]AAGCTAGTCTATAAAGGGGCCAGAAGAAAATATTTTTGCACAGAAAAACAATATAGTTCTAGAGAGAGATTTG
AAGTGACTTTCTTTGTGCTCCCTCCCC C/T 30 0.408 0.017
0.410 0.198 5.4% 312 87.3% 268 75.9% 58 37.5% 80
3.5% 114 7.6% 66 2.5% 40 7.6% 92
2.4% 42 86.6% 112 88.5% 78 87.2% 78 75.9% 58

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        37.5%   80
rs301859        APPLERA_RESEQUENCING    5       58.9576 37091342
forward MIT
ATATGGCACTGTGATCTGAGAATGACAGTAGTGACCCAGGATGAAGGCAACATTAGAGTAGTCTGGTTTAATGAA
AATTCTGAAAACAGTGCTGCTCAAA[A/
G]CGTGGTCCTCAGACTGGCTGCTAATCCATCAACTTTTTGTTACTGGTGTGTAACCAGATAATGAAATTTCCCT
GACAAGTTATATCAGTTTTGTAACAGT     A/G             extended_map    0.109
0.053   0.027   0.013   88.7%   194     46.8%   154     74.1%   58
60.3%   78      NA      0       93.8%   64      86.8%   38      85.9%   92
        97.6%   42      NA      0       52.6%   76      41.0%   78
74.1%   58      60.3%   78
CV3174028       AB_ASSAYS_ON_DEMAND     5       59.0923 37334036
forward LGD
AGGAATACTTTTGAGATCAGTGGATAGGTGTTCAATGAATAAGTCAGGTATACCTAAAGAAACACTAAATGTACA
TGTACATCAGTCAGTATCTCATAGC[A/
G]TAAACAGTTAGTCAAGATAGCTTTCTCTTTCCTAACCGTTTTGCCATACTACAATGATCTAGTTAAAATACAA
ATTTCACAACTTCAATGATTCTTCACT     A/G             extended_map    0.227
0.012   0.232   0.000   81.2%   192     15.1%   146     25.0%   56
14.1%   78      NA      0       85.5%   62      73.7%   38      81.5%   92
        85.7%   42      NA      0       20.8%   72      9.5%    74
25.0%   56      14.1%   78
rs216377        TSCAF   5       59.119  37382212        forward MIT
CTTTACACACATGAGCTCATTTAGTCTCACAACTCCATCGTAGTAGGTACGATTATAACTATTATAGAGGAAGAA
ACAGAGAGCCAAAAGCATGTCCTCC[A/
G]CTCCCCCAACACAGCATCCCAACCAGGACAGGGTTTATATCTTATTAAGTTCTGAATCCTCATAGTTTATCAC
AGCACTAGGCTGGTAGTACAAAGAATA     A/G             1,171   0.241   0.014
0.242   0.000   82.8%   302     15.3%   262     25.9%   58      15.0%   80
        79.1%   110     89.1%   64      78.9%   38      84.4%   90
85.7%   42      15.5%   110     17.9%   78      12.2%   74      25.9%   58
        15.0%   80
rs2910798       AB_ASSAYS_ON_DEMAND     5       59.4897 37781350
forward LGD
TATTTCTCCTGTGTTCACCTGCTAGAGTATACTGTTTACTGCCAAGTAGCAAAGTATTTGAAAGGAAGCTAATAT
TTAAAAGGATCTTTTCGTAAAGGTC[A/
G]CTGTAATTGAGAATGTGTGTCTGGTTGGTTTTTTTTCTTCACTGCAATTGACTTCTGTCAGTGATGAAATGAA
GATTTATTTACCATATCTCGCTTTATC     A/G             extended_map    0.215
0.018   0.459   0.013   27.8%   194     92.2%   154     100.0%  56
98.8%   80      NA      0       17.7%   62      35.0%   40      31.5%   92
        15.0%   40      NA      0       93.4%   76      91.0%   78
100.0%  56      98.8%   80
CV1400878       AB_ASSAYS_ON_DEMAND     5       63.6392 39217532
forward LGD
GTGGGCCAAACATTTGCTGAAGTAAGAGAACCTGGGGATTGTAAGGTGGGAAAAGCCTTGTTAAGATGCCATGGC
ATTACCTCTTTTGTAATTGGACAAA[C/
T]GAGGAAGTGACAAGCAGGGGTGAAGGATGGTAAAGATAATGAGGAGAATCAGAAGTCAACTTTAGGAAATAAT
ATATTGAAAAGATTGGGGAAAACAAGG     C/T             544     0.239   0.005
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0.409   0.111   11.6%   198     77.3%   154     84.5%   58      38.5%   78
        NA      0       9.1%    66      20.0%   40      9.8%    92
23.8%   42      NA      0       71.8%   78      82.9%   76      84.5%   58
        38.5%   78
rs277414        APPLERA_RESEQUENCING    5       65.6091 41972924
reverse MIT
AAAGCTGAAAGGGTCCTATGAAGGAAGTCATTTAACTCCCAGTTTTGACGAGAACAATTAGACCCCAAATCCACG
CAACAAATCAGTAGCAGGGTCAGGA[C/
T]TAACTTGGATATTGACTAGTAATACAGGAAAATTTAATAGCTTCTTTTTAATTCATAAAACTAGATACTTACA
CTGCCATGTAGTCAAAAAATGCACCAT     C/T             1,651   0.119   0.008
0.249   0.092   22.7%   176     71.4%   154     81.0%   58      97.4%   76
        NA      0       14.1%   64      27.3%   22      27.8%   90
22.2%   36      NA      0       75.0%   76      67.9%   78      81.0%   58
        97.4%   76
rs900379        AB_ASSAYS_ON_DEMAND     5       66.7852 44415157
forward MIT
ATAAATTCCTGTGGCTTAAAAAAGAAGAAGGGAAGAGCTCTCAATCCCTAAAAGTTTGTTTACACGACTGTCATT
TGGTGTAGCATCCCCAGCTCTTCCT[C/
T]ATAAATAGCAGTGGCGGAGCACTCTGACATGGTGAGAAAACAGCCAGCTTTTGATGAATATCATATCTTCTCT
TCCCTCCCTCCAGCTTTAGCACACACG     C/T             extended_map    0.139
0.173   0.001   0.024   18.9%   196     70.5%   156     21.4%   56
52.5%   80      NA      0       15.2%   66      28.9%   38      17.4%   92
        16.7%   42      NA      0       66.7%   78      74.4%   78
21.4%   56      52.5%   80
rs1482680       APPLERA_RESEQUENCING    5       66.7923 44437643
forward MIT
CAAAGGAAAAGCTGACATAGCTTTTTAGATTATATCTCATTCTTCTTTTTCTTTTCTGTGCAGCCTTTCTTTTAC
AGCACAGTTGAATCTCTAAATACCC[A/
G]ACTACTTTGCATTGTTAGGTCACCTCTTAGGTTAGCCCGAGAAAGCCTGAGAAAAGTTCCACAGGAAAGATGC
ACTATTTAACGGAATTCAATCTCTCCC     A/G             186     0.292   0.003
0.498   0.011   81.6%   76      6.5%    92      0.0%    20      11.1%   18
        NA      0       80.0%   40      100.0%  6       80.0%   30
87.5%   16      NA      0       10.5%   38      3.7%    54      0.0%    20
        11.1%   18
rs1469096       AB_ASSAYS_ON_DEMAND     5       69.1    53594200
forward MIT
TCATTCCCCTTGCTCTTGTTTCCCTCTTTAAAGAAAATCTGCTGTATTCCAACATCTGTTTTATGAGGAAGTGGC
TGAATTTCTTCCGTCTGTTTTCTAG[A/
G]CTAGCTCAAAGACAGGGATAATAAAGTCTGGGGCATGTGGCTTTATCTTGGGACTGTAAGGCAGATACTTTGT
CCTCTAATACAAGAGCATCATTTAAGG     A/G             764     0.2     0.185
0.008   0.298   97.0%   198     46.8%   156     93.1%   58      100.0%  80
        NA      0       98.5%   66      100.0%  40      94.6%   92
97.6%   42      NA      0       47.4%   78      46.2%   78      93.1%   58
        100.0%  80
rs4865907       AB_ASSAYS_ON_DEMAND     5       70.133  54330738
forward LGD
```

TAGTGAGGTAGTTTAACTAAAATACTGTTTTATTTGTCTTCATATTGATTTGCTCACATTGAGCCCACTTATTGT
TAAATTTATTTATAAGGACCCTTCA[C/
T]ATATTAAAGATATTGTCTTTGGGGGGAAATGCTTTCAATGTAAGTGACAAGCATTTTGCCATATGTCTTTGGA
TATTGCCTATGGTATTTTCTACCTTAC C/T 1,053 0.165 0.008
0.153 0.006 11.1% 198 64.1% 156 53.4% 58 55.0% 80
NA 0 10.6% 66 7.5% 40 13.0% 92
9.5% 42 NA 0 60.3% 78 67.9% 78 53.4% 58
55.0% 80
rs6871156 AB_ASSAYS_ON_DEMAND 5 70.1433 54342715
forward LGD
AAAAAAATACAACAGTTGTTTATACAACAGAGCCAACCAAGTGACTTCGGGGGCTCAGCAGTGAGTTACAGCTTA
GTCTAGACCACACTTAATTTAGTCC[A/
G]AACTTGGTCTAGACCATACTCAAGGGTCCTATCCGGCAGGAAGCAGCCCAGCCCTCAAAGTCATGACCTATGG
ATGTTATTCCACACAAAACCATCCAAT A/G extended_map 0.166
0.010 0.149 0.010 11.6% 198 65.1% 152 53.6% 56
76.2% 80 NA 0 13.6% 66 5.0% 40 13.0% 92
7.1% 42 NA 0 59.2% 76 71.1% 76
53.6% 56 76.2% 80
rs185219 AB_ASSAYS_ON_DEMAND 5 72.2216 56152377
reverse MIT
AGTTCCAGTTGTTTTTACGTCCCAATGTGAATTCTATTAATAACTACTTCAGGCCAGAGCTCTCTGTAGCCACAC
AGCTGACTTTTCTCATAATCTGGAA[C/
T]AATGGTATCAGATACGCTTAATCTCAGTCAAGTTACAGAAGTTAGGGTTTTCTGTTTTTTAAAAGGAGAAAAG
CTGGGATACAATATTAAAAGTCATACT C/T extended_map 0.071
0.140 0.003 0.286 74.7% 198 37.2% 156 81.0% 58
95.0% 80 NA 0 75.8% 66 67.5% 40 77.2% 92
73.8% 42 NA 0 46.2% 78 28.2% 78
81.0% 58 95.0% 80
rs832534 AB_ASSAYS_ON_DEMAND 5 72.3845 56229557
forward LGD
TGAGTCCAGAGGTGTAATATATTGGCAGGCCAACCTGGCTGCAGCCCTGAAGCTACCTTCCCGTTTTATTAGCAA
TAGTTACTTTGACCTCCATCGACCT[A/
G]ACTCCAGCTCTCTCAGTTCCAAACTTGGATAGGAAGGAGGGTGTTCTTTACTGGATCCCTCAAAAATTCATGG
AACCTATATGACCAGATTCTGATTACC A/G 1,631 0.085 0.134
0.000 0.277 78.8% 198 38.3% 154 81.0% 58 95.0% 80
NA 0 77.3% 66 80.0% 40 79.3% 92
92.9% 42 NA 0 46.2% 78 30.3% 76 81.0% 58
95.0% 80
rs331498 APPLERA_RESEQUENCING 5 72.4608 56265727
forward MIT
GGCACACATTGTATGTACTGTCCTCAATGAGGCGTTCAGAGTTTTCAAAGTAAAAAAAAAATGGCTTGAAATTAAG
TACAAGTGAATAACTTTAGAAATGA[C/
G]GCAGTGAGCACGCGCTGTGGACAGAACCATGAAACAGTGCCCTGAGCAGCTGGACCGCAGTCTGAGCCACGTG
AAGAAAGTGTCTCCAACAACCTGCCTC C/G extended_map 0.081
0.164 0.004 0.276 78.1% 196 38.4% 146 85.2% 54
95.0% 80 NA 0 77.3% 66 77.5% 40 78.9% 90

71.4% 42 NA 0 47.1% 70 30.3% 76
85.2% 54 95.0% 80
rs1982596 AB_ASSAYS_ON_DEMAND 5 75.6048 60082852
forward MIT
AGCAAGAGTCAGGTCAGAATGCATGTGGAGAAACTATGGTGCCAGGAGAGGTCAGTGGGCCCATATTGGGCCCTC
GTGAGCCCTACTTATGATTAAGCAC[A/
C]AGTTATGCTATAGAGGAAGTTAATAAAAAAGGATAATGAAGCCAGCCAGAGTTGGAAAAGAAGGAAGGAATCT
CAGAAAAGAACATACATGGGGGTGGCT A/C 1,021 0.152 0.000
0.249 0.012 32.3% 198 87.2% 156 89.3% 56 77.5% 80
NA 0 24.2% 66 37.5% 40 35.9% 92
7.1% 42 NA 0 85.9% 78 88.5% 78 89.3% 56
77.5% 80
rs7712760 AB_ASSAYS_ON_DEMAND 5 77.6234 64055346
forward LGD
TTTTGTCTAATAACTTCTGATAGAAGTACTTAAAATTATACAAGTATTGATTTGTCAATAATTGCTATTATAAAT
AATGTTGAAATGAGCAGCTGTAGAC[A/
G]TCTCTGTGGGCATGCACCAGGTTTTCTCTAGGGTAGATTTGTCAATTTCTCCTTGTAACACAGATTTTGCTAT
ATATTTTGAGACATTAGTAAATGCTTT A/G 379 0.211 0.012
0.185 0.013 92.9% 196 35.1% 154 48.1% 54 48.7% 80
NA 0 93.9% 66 92.1% 38 92.4% 92
72.5% 40 NA 0 38.2% 76 32.1% 78 48.1% 54
48.7% 80
rs1428473 AB_ASSAYS_ON_DEMAND 5 79.2159 66569444
reverse MIT
AACTCGGGAAAGCTTATTGAAGCTCTTGGGTAACTCAAAGATAACTCATGGGAGATTTTTCATGGTTTTTTTTTT
TTTCTGTGAACTTGTGTCCTAAGAA[A/
G]GAAGGGAAGAGATAGTGATAAATGTCTTTCCCCACCCTTAGTGGGTGTGAGGAACAGGAACTTTCTGTACCTT
GTCTCACAAAGTAGAAGAGGTAAACCT A/G 703 0.19 0.005
0.368 0.007 63.1% 168 4.0% 124 0.0% 54 0.0% 68
NA 0 59.3% 54 78.1% 32 59.8% 82
72.5% 40 NA 0 6.9% 58 1.5% 66 0.0% 54
0.0% 68
CV159284 AB_ASSAYS_ON_DEMAND 5 79.9505 66971902
forward LGD
TGTTTAGAAGCCTGGTCAACCTTAAACAAATACAACCTTGTTTCCTAAATAAGTTGAAAGCTATAGGACTTAAAT
ATAAGCTGGGTGACACAAGTTGGTT[A/
T]TAATACAGGAACTTTAATTTAGGTCCCAAAGTAATTTTTGTTAGAGTGTAAAAATGAAAAATCTTTTAGCAAT
ATTTTACAACAATGTAATGATTACTCA A/T 1,879 0.127 0.026
0.105 0.144 53.6% 192 97.9% 140 88.9% 54 64.9% 74
NA 0 45.2% 62 55.3% 38 58.7% 92
61.9% 42 NA 0 98.5% 66 97.3% 74 88.9% 54
64.9% 74
rs33347 AB_ASSAYS_ON_DEMAND 5 80.788 67990405 forward LGD

TGCTGTGCATTTTATGCAGACACACAAAATGCCCTCAGCAAGGTTCATCAGAGTAGCACAATCAAGAGAGGTAGG
GGGAAGGAGAGGAGAGACAAATAGT[C/

T]GAATAACCCGTATTCTCTTGTTCTGTCTTGCCATAAACATACAGACATGAGATATCAATACAAACATAAAAAG
AAATGAGTTCTGCTCCTTATACCAAGC C/T extended_map 0.234
0.044 0.190 0.154 31.1% 196 96.7% 150 82.1% 56
60.3% 78 NA 0 31.8% 66 39.5% 38 27.2% 92
21.4% 42 NA 0 97.4% 76 95.9% 74
82.1% 56 60.3% 78
rs33345 TSCAF 5 80.7891 67990897 reverse MIT
TTTTAGGCTGGTAGAGGAGGGGTGGGTGGGGTAAAGTCCTAGGGCACAACTTCCCTTTTTTAGAGTTAACTGTGT
GGAACATGCATGCTTCCAGATGTTG[A/
G]CCTGAATAAATCCTGATTACTTGCCTTGTTTCAGAAGAAGCCACCTAGAATTGGATTTGGTAATATTTACAGG
CAGGGCAGAGTATTCTGGTTCAATGAT A/G 1,174 0.23 0.073
0.148 0.189 35.3% 320 98.4% 308 80.4% 56 60.0% 80
34.1% 132 38.7% 62 41.7% 36 32.2% 90
26.2% 42 97.4% 154 100.0% 78 98.7% 76 80.4% 56
60.0% 80
rs4252228 AB_ASSAYS_ON_DEMAND 5 81.5824 68678076
forward LGD
TAAAAACATTCTCCTTATTCACATTCTACCTATCCGAAATCCAGTCTCTTTATAGGAGCCTTCCCAACTATTCAC
AAGAATTGCCAGCCATTTTGAAGGC[A/
G]GAAGGGAAAATGGTCAAAATAACCAGGACATAGCATTAGACACTTAATATTTCTGTGGATTCCCTAACAGAGT
ATATATTCTTTAATGGCAATCTCTGTT A/G extended_map 0.099
0.107 0.002 0.001 90.3% 196 51.9% 154 87.9% 58
48.7% 80 NA 0 97.0% 66 95.0% 40 83.3% 90
100.0% 42 NA 0 53.8% 78 50.0% 76
87.9% 58 48.7% 80
rs299098 AB_ASSAYS_ON_DEMAND 5 81.5954 68735743
forward LGD
ATTTCTAAAAATGTGTCTTAGCATTTTAAGCATATTTCTTACATTTTTGTTTTTTTATGTAACCTTCACATGTAT
TAAATTTTTGTTTCTTAAAGTTACA[A/
G]TTTATTTCTTAAATGTACATCTCTGTGTACAAAGTAAAAAATGTTAATTCTAATCAGTATGAAATCCAGATAG
TGAAACACATACTTCCTCATAAATTTA A/G 1,964 0.1 0.103
0.003 0.001 9.2% 196 47.4% 152 12.1% 58 51.3% 78
NA 0 3.0% 66 2.6% 38 16.3% 92
0.0% 42 NA 0 46.1% 76 48.7% 76 12.1% 58
51.3% 78
CV25751202 APPLERA_RESEQUENCING 5 83.5907 71675159
forward LGD
TGCTAGTGGGAATGTAAAAACTTCAACAGAAAGCAATTTGTCAATAGCGATTAAAACTATAAATATATATACTCA
TGAAAATTAGGTGAAAAATTACATA[C/
T]GTACAAGGTTATCAATTATAACATCGTATACAATACAAAAAAGAGAACAACCTAGAGGTCCATAAAAAGGGAA
CTGGTTTAAATAATAAACTCACAGTAT C/T 892 0.221 0.000
0.370 0.005 66.8% 196 3.3% 152 1.7% 58 0.0% 80
NA 0 65.2% 66 67.5% 40 67.8% 90
45.0% 40 NA 0 5.1% 78 1.4% 74 1.7% 58
0.0% 80
rs874973 AB_ASSAYS_ON_DEMAND 5 84.7813 72821968

forward LGD
AACTTTTACTTTTAAAAGACAGAGTAGCACAAAATAGTTTTTTCAAGGTGGTACGCTCATGATAATAGCGACAAG
AAAAACTCTAAATGTAAGTCATCAG[A/
G]AGCTCATCACTGTTATCTTCGTTTCTCCTCCTAGCCACCATGTATGGAGGCTTGGGAATCAAAGGAGATCTAT
GAGAATCATCAGTTGTTTTCTCTGTGT A/G 52 0.375 0.002
0.587 0.144 90.4% 198 9.0% 156 5.2% 58 48.7% 80
NA 0 89.4% 66 92.5% 40 90.2% 92
83.3% 42 NA 0 11.5% 78 6.4% 78 5.2% 58
48.7% 80
CV2828764 AB_ASSAYS_ON_DEMAND 5 84.8715 72886337
forward LGD
TAGGGAAAACAAAGTTTTGAGTAAACAGTATTTGCAAATATTTACATTGTATTTTCCTCAGGATGTTTATCAGTT
TTGTTGAAGTACACTGCTACAGTGA[C/
G]AAGACTCCTGAAGTCTCAACTGTAACAAAATTATAAAAACTAAGTGCACATTTACAGACTCTTGGTCAGGTTG
GGCTGTGCTTATATAGTCACGCTAGAT C/G extended_map 0.307
0.010 0.362 0.187 83.0% 194 7.2% 152 13.8% 58
52.5% 80 NA 0 82.8% 64 92.5% 40 78.9% 90
83.3% 42 NA 0 7.9% 76 6.6% 76
13.8% 58 52.5% 80
rs4704221 AB_ASSAYS_ON_DEMAND 5 88.6307 74843256
forward LGD
GGTTTTTGCATTACCAAACCCTCTACCCCACAATTAAATACTAAGGATAAGATTTTTGTCCATTAGAATTTTTTG
GGGCCATAAACCATTGTTTTATCTA[A/
T]GATTTCAACCCTCCCGAAGAACCAAGTATCACCACCACTAAGAATGCATGCTACAGGAAAAAGACATCTATAA
AAAAGTGGGTTCCATATTTTCTCATGT A/T extended_map 0.174
0.022 0.115 0.006 5.1% 198 53.9% 154 36.2% 58
45.0% 80 NA 0 4.5% 66 7.5% 40 4.3% 92
4.8% 42 NA 0 53.8% 78 53.9% 76
36.2% 58 45.0% 80
rs34350 AB_ASSAYS_ON_DEMAND 5 88.9284 75029181 forward LGD

ACTTTTTTTTTTTTTTTTTGCTGGTAATTGCTCTAAAAGGCTTTTTTGTTTTTGCTTTTTGCAATTATTTGGCTA
TGACAGACTCACCTAATTTATGATT[C/
G]ACTCTGATTTCTTAGAACTCTGTGTGCATAATTGGGAATTTGAGGGAGGTGAAAAAATGCAACCTACAAATTG
TTTATAAATATGAATATTTTATGAATA C/G 850 0.198 0.029
0.451 0.000 88.8% 196 29.9% 154 12.5% 56 31.9% 72
NA 0 89.1% 64 92.5% 40 87.0% 92
95.0% 40 NA 0 28.2% 78 31.6% 76 12.5% 56
31.9% 72
rs6896339 AB_ASSAYS_ON_DEMAND 5 89.5199 75398609
forward LGD
TTCAGGCCAATAGTTGATTTTTCAATAATGTATCAATGGTAATAGGATATCTCCCTAAATGCCGCTATTTTAATG
ATGTAATTAAGTATGGAAAAGGCCA[A/
G]AAGGAAGAGGTTGGGGAAGAATGTTAAGGAAAAATATTTGTTTAGACAAGAACTCCACGTATTTGTTCAAGGA
AAAGAATCCTATGCGTACATGAACCCT A/G 1,233 0.192 0.035
0.106 0.081 94.9% 196 42.9% 154 65.5% 58 76.2% 80

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        NA      0       95.5%   66      97.5%   40      93.3%   90
95.2%   42      NA      0       38.5%   78      47.4%   76      65.5%   58
        76.2%   80
rs889189        AB_ASSAYS_ON_DEMAND     5       89.6947 75507758
forward MIT
CCAGGACCCCTCAGCCAACAGTTGGCATGGGGTTATGAAAGCCTAGCACCTTTGCCCGAGTGGGGAAAAATTCCG
AGGCATAATTTATACTCCAGAGTTC[C/
T]TCCTGAAGCTTGCTCCACGGTAGAATACCTAAAATTGCCGCCCTGCTTCCATCGCTCCCTCCCGCCCTGCTCC
CTGACTCCCTTACTCTTTAATAAATGA     C/T             extended_map    0.184
0.203   0.004   0.109   88.8%   196     32.2%   152     84.5%   58
71.3%   80      NA      0       90.6%   64      82.5%   40      90.2%   92
        88.1%   42      NA      0       31.6%   76      32.9%   76
84.5%   58      71.3%   80
rs32903 AB_ASSAYS_ON_DEMAND     5       91.3966 76366877        reverse MIT

TCAGGAAGTAATTGTTTGCTGGAAACGGGCTGTCTTTTCACTGGGTAATTAAGATGGTGTCACTTGATAAGGACT
CCAGGGGAATCACTCTTCCAGCTCA[A/
G]TGTCATTAGCCCAGCGTCACGGCAACAGGCCAGCTTGAGTTCTCTCTCTGGAGCTTTATTTCATTAATGTGTC
TCCTGTTCACAAGTTACAGCTTGCTCC     A/G             1,072   0.187   0.068
0.068   0.032   89.4%   198     32.7%   156     63.8%   58      53.7%   80
        NA      0       90.9%   66      100.0%  40      83.7%   92
92.9%   42      NA      0       24.4%   78      41.0%   78      63.8%   58
        53.7%   80
rs6872179       AB_ASSAYS_ON_DEMAND     5       93.3169 77913885
forward LGD
AAAGATGCCAGAGATGCTATTAGTACAACAGAGGAGTGGAGGCCTGAGCCCTCCTGCAGCCCAGCAGAGATGCCA
AATGCTCCAGGGAGGAGCTTCGTGC[A/
G]ACCTTCCCGGACCACTCAGGAGAGCAGGGCTCCACAGGAAGGCCCAGCAAGGAGACACATCCAATCACCGATG
CTGGGGCAGGGAGAGGAGGGATATGAC     A/G             2,056   0.054   0.207
0.042   0.026   86.6%   194     57.8%   154     100.0%  58      76.2%   80
        NA      0       81.8%   66      90.0%   40      88.6%   88
88.1%   42      NA      0       68.4%   76      47.4%   78      100.0%  58
        76.2%   80
rs736201        AB_ASSAYS_ON_DEMAND     5       94.7772 78921629
forward MIT
TGTTAGAACCATATTGGTTTTCAACTAATTTTAATCAAAGATTATGCAATGTATTACTTTACTTTCATTCTTATA
AAAAGCAGTGCTTAAGTGGTGAAAT[A/
T]TAAGCTGTTACATAAATGTATTTGTTTCTATGTGTATAATTGAGCTGCAGCGCTGTGCTGCTTGTTCCACTAA
AATCTGATGTGTATTTGCTCATTAATT     A/T             528     0.229   0.148
0.035   0.048   93.6%   328     34.2%   304     79.3%   58      60.3%   78
        93.3%   134     95.5%   66      85.0%   40      96.6%   88
95.0%   40      39.9%   148     35.9%   78      21.8%   78      79.3%   58
        60.3%   78
rs394170        AB_ASSAYS_ON_DEMAND     5       95.6747 79868257
forward LGD
CCGCGCAGAACCGGGCGGCTGGGCTTGGAGCCCGCTCTGCACTCGGGGCGCGCCCGCGATCGCCTGGCAAGGACC
```

TTGGTTTGCCGGGTGGGCTCTAAGG[C/
G]ACAGGCGTTAGGGGAGGTCGAGAATGGCAGGGTCAGTGTCTTTTGAGGTCTGGGTTGGAAAGAAAGGAATGTG
ACGTTTCCCTAATCCTTAATTTCAGCC C/G 317 0.235 0.016
0.482 0.005 74.2% 198 7.1% 154 0.0% 58 2.5% 80
NA 0 72.7% 66 80.0% 40 72.8% 92
59.5% 42 NA 0 6.6% 76 7.7% 78 0.0% 58
2.5% 80
CV1400435 AB_ASSAYS_ON_DEMAND 5 97.243 80839284
forward LGD
GGATAATATACCCCCTTGGTACAATGAAACATCCTTGTCAATATCAACCGCTCAAACCCTGTCCACCTTCCTAGG
TGCCTTGTGGGAGATATAATCTTTG[A/
G]ATGAGTGTGTAAAAGAAGGTACTTATAAAGGTGGGTAGTGGTGGGTGTGAATTGTACTCTGGCTGCCTACAAT
GGCAGTAAAGGGATGACTGGCTGAGCT A/G extended_map 0.288
0.015 0.501 0.046 97.5% 198 34.4% 154 20.7% 58
12.5% 80 NA 0 98.5% 66 100.0% 40 95.7% 92
100.0% 42 NA 0 30.3% 76 38.5% 78
20.7% 58 12.5% 80
rs226201 APPLERA_RESEQUENCING 5 98.38 81655919
reverse MIT
GGAAAGACCAAGATCATAAATATTAATGGTGAAAACACTGTAGTAATAAATTTTCATATGCCAAAAAATGTTTGT
ATCTTACTGTCCCCTGTTCTCACCA[C/
T]GAAGATCATGTTCATTACCACCACCACCCCCCCTTATTTTTTTTATCCTAAACCAGCAAACGCAGGACCTGTA
CCAATTTTAGGAGACAATAAGACAGGG C/T 1,593 0.129 0.170
0.610 0.098 8.2% 182 52.0% 152 94.8% 58 86.3% 80
NA 0 7.8% 64 0.0% 30 11.4% 88
5.0% 40 NA 0 48.7% 78 55.4% 74 94.8% 58
86.3% 80
rs301289 AB_ASSAYS_ON_DEMAND 5 100.1786 82690308
forward MIT
CATGTGTTTACTAATTTGTCGAGGCTTGATTGGCTCCAGTGAGAGGTTTCTCTAGGAGAACAGCAAGAGTCAGAG
CTAAATAAGGAGGATGGGCCAGATA[C/
T]GGAGAGGGTGATCAAGAAAAAGAGCCTCCTGGCAGTACTATAAGTTTCATTATTATTATATAATATTTTCACA
TTTATTCTGTGTACCTTTCTGCGGCAA C/T 1,362 0.168 0.186
0.006 0.180 75.3% 198 17.3% 156 67.2% 58 66.2% 80
NA 0 74.2% 66 67.5% 40 79.3% 92
71.4% 42 NA 0 10.3% 78 24.4% 78 67.2% 58
66.2% 80
rs301719 AB_ASSAYS_ON_DEMAND 5 103.14 88316988
forward LGD
ACAAAAGACACAGAAAACTAGGCTGCATCCTGTGCACCTGCCTTCCTGTCAAGAAACTTACCTCAGGCTAATGCA
TGCAGAGGGACAGGTCAGATTGTGT[C/
G]AAGGTTCTATGCAAACTGCCCAAGATCACTTGGGGCCCCACTGGCATCACTGAAAGGCATTGCTGGGTTTACG
GTCTCCTGAATAGCTCCAACCTGTTGT C/G 743 0.224 0.009
0.279 0.002 31.8% 198 96.2% 156 91.4% 58 98.8% 80
NA 0 22.7% 66 27.5% 40 40.2% 92
16.7% 42 NA 0 96.2% 78 96.2% 78 91.4% 58

98.8% 80
rs2916616 AB_ASSAYS_ON_DEMAND 5 104.54 89661197
reverse MIT
GGATTCATACTTTGTGCTGTTCAATATTTTAGAAAGTTTTTATCTGTACAAGTCTAAAACAGACATTTTGGGGGT
ACTAAAGAGCTCTTTTCTGCTTTGC[C/
T]TACAAAATGTTTAATGTTAGGCTTTAGGCAAGAACATGCACCTCTGCCCCCCCGCCCCACTGCCCCTTTATAA
CATTAAAAAATCAAGATCCAGTAATTT C/T 998 0.21 0.001
0.367 0.002 37.4% 198 98.1% 156 100.0% 58 100.0% 80
NA 0 36.4% 66 35.0% 40 39.1% 92
50.0% 42 NA 0 98.7% 78 97.4% 78 100.0% 58
100.0% 80
rs1983366 AB_ASSAYS_ON_DEMAND 5 104.606 90181386
forward MIT
CTGGCTATTCACTCTTAGGAAAATAAAGATAAAGAAAAATCATTAGCTGCCCAGCCAGTGACTTTCATGGGGGGA
GGGGTACACTCTTACAGGAGAGGTG[C/
G]GATATACATGATTAAAATTTTTCTGTGATTTATTTGTTTTTTTTTTTTAGCACTTGACCCATGATTCATGTTC
AGTGAATGTCATTTTGAATGAATAAAA C/G 293 0.246 0.020
0.512 0.042 77.0% 196 8.3% 156 0.0% 56 26.3% 80
NA 0 75.8% 66 78.9% 38 77.2% 92
92.9% 42 NA 0 11.5% 78 5.1% 78 0.0% 56
26.3% 80
CV11648399 AB_ASSAYS_ON_DEMAND 5 104.6689 90474653
forward LGD
AATTTGATGCAGCATATGAAGGAAAATGGGGCATCAGGGTAAATCGGTGCGAATGGTGATACCAGTACTCAGGAG
GAGGAAAAAGTGTGATGAGAAGAGG[A/
G]ATACTAAATTCAGCTGTGGAGGAACTCTGTTTGAAGTGGTTTGGGGATCTCCAGGCCTGGAGCTTAAGAGAAG
TGAAGATGCAGATTCAGAAAGAGTTGG A/G 1,472 0.154 0.003
0.259 0.014 89.8% 196 39.5% 152 32.8% 58 53.7% 80
NA 0 87.9% 66 80.0% 40 95.6% 90
76.2% 42 NA 0 39.7% 78 39.2% 74 32.8% 58
53.7% 80
rs933688 AB_ASSAYS_ON_DEMAND 5 104.9292 90846821
forward LGD
GTAAATTAGCAGAAGGAGCTATAAAATGTTTAGATAAATATCAAAGTTGACTTTACAAGGAAACAGAGAGAGCCT
GATTAGATTCTGGCTCTATGCAAAA[A/
G]CCAGTTGTTTAGAAAAGATGGGTCTGGTTAAGAAAAAAACCGATGGTGATTTCTTCCTGAAGCCACACTTGAC
TAATTCACCTGCATTGGTCTTTTTGAA A/G 542 0.224 0.023
0.192 0.124 18.7% 198 84.4% 154 69.6% 56 45.0% 80
NA 0 18.2% 66 15.0% 40 20.7% 92
19.0% 42 NA 0 84.6% 78 84.2% 76 69.6% 56
45.0% 80
CV2839869 AB_ASSAYS_ON_DEMAND 5 108.0609 95264678
forward LGD
TGTCTCTGAGCTTTATTCCTAAATAATCCTAAAACTAGGATTTAACAAATCCCTATAATGCTCTGAAGTATCAGT
TACTGTTTGTTGACTGTTCACCAAG[A/
T]ATCAGGCACTCGGCTAAGAATTGTTTTGGTATAATTCTTCCCAATTCTCAAACCAATCTCACTGCATTAATTT

CTTTTTATTCTTTTTTTGAGACGGAGT A/T 2,040 0.079 0.109
0.000 0.067 17.0% 194 54.7% 150 16.7% 54 24.4% 78
NA 0 17.2% 64 21.1% 38 15.2% 92
27.5% 40 NA 0 55.1% 78 54.2% 72 16.7% 54
24.4% 78
rs2662258 AB_ASSAYS_ON_DEMAND 5 110.256 98201747
reverse MIT
TAGAAAGTAAAAACTGAATACATAAAATTGTATTTCAAAAGCTCACAGATAATTTAAAAACGTTAGCTATGCTAC
TTACTTTTCCCCTCTATGAACTAAT[A/
C]TATATGCTGTCATAACTCAATTTGGCACATCTGTTCTATGCCACACCATTTATTATTGATAGATGGCATTTCT
GTGCATTTAAAACATCAATGCCTTTTG A/C 671 0.236 0.001
0.318 0.006 99.5% 182 49.4% 154 44.8% 58 40.0% 80
NA 0 100.0% 64 100.0% 28 98.9% 90
100.0% 38 NA 0 51.3% 78 47.4% 76 44.8% 58
40.0% 80
rs1345829 AB_ASSAYS_ON_DEMAND 5 111.5201 100423817
forward MIT
GCAAGATGGTTGACACTGTGGATTTAGAAGTAGTTGTTCATGGAAAGAATAATGTAAATGAACAAATAGATGAGG
TATTTTCCTCTGATTAACTAGAAAT[G/
T]ATCCCACAACTCTTTGCAGTCTCTGCTATGGTAATTTTTGTGTGAACAACCTTAACAGTTTTAGGAGATCACA
TTCACCTACTGCTGAAGCTACAGACGT G/T 1,670 0.094 0.071
0.007 0.042 96.7% 184 66.7% 156 92.9% 56 87.5% 80
NA 0 98.4% 62 100.0% 36 94.2% 86
100.0% 42 NA 0 70.5% 78 62.8% 78 92.9% 56
87.5% 80
rs900106 TSCAF 5 111.6538 101031287 forward MIT

TAATGCTTAAAAATAATCTCCATAATTTGTTTATAAACTTATTTATGCTCCAGAACATAATCTCTTTATAAATAG
AAATGTGCCAACCTTGTTCACTTCT[A/
G]ATTTACTAGCACCTAGAGCAACACCACGTACATCATGAATTTAATTTTTTTATTGCTAAACAAATCATGGATA
AATGTATCCTTTTTTTAATTTCTAGCA A/G 166 0.313 0.000
0.501 0.010 75.8% 326 1.3% 310 0.0% 58 5.0% 80
84.3% 134 67.7% 62 81.6% 38 66.3% 92
82.5% 40 1.9% 154 0.0% 78 1.3% 78 0.0% 58
5.0% 80
CV2084318 AB_ASSAYS_ON_DEMAND 5 114.9724 107307218
forward LGD
TTAAGAATTTTTTTTTAAAGAAAGATTCATCATATATTCCCTAAGTTCTTGTATGCTTGAGGAAGACTGGTACCC
TCATGCCTGGGAAGGAACAACATGG[C/
T]TAAATAGTAAATTTTGGGATCATCTTAATTTTACCTTCGAGGCTTTATAGATAGGTGCATCAGTTTGCTGCAA
AGAAGCCTAAGTCCAACATGATTTCTT C/T 1,884 0.143 0.022
0.321 0.010 5.6% 196 49.3% 152 67.2% 58 37.5% 80
NA 0 4.5% 66 5.0% 40 6.7% 90
9.5% 42 NA 0 52.6% 76 46.1% 76 67.2% 58
37.5% 80
CV3163022 AB_ASSAYS_ON_DEMAND 5 115.2591 107798365

forward LGD
TAAAATGTGGCAAAAAGGTAAAAAGAAAAGTTTTTTCTTCTTTGCTAACATAGGTTATACTAAATTTGAAATTCA
CATTTGCTTATAAAAAGACAGCCTT[G/
T]TGTAAAAGGTTTTCATGCTGCTTGAAGTTGGGTAATGGTGGTTGTGGTAAATAGCTAAAACATCCTATAGCAC
CAGTGACGCACAAGGAGAACAAAGTTC G/T 1,772 0.151 0.097
0.029 0.041 22.7% 198 77.6% 156 41.4% 58 55.0% 80
NA 0 27.3% 66 10.0% 40 25.0% 92
14.3% 42 NA 0 74.4% 78 80.8% 78 41.4% 58
55.0% 80
CV227298 AB_ASSAYS_ON_DEMAND 5 116.5626 110031278
forward LGD
TTAGAATCTAAAGGGCTTCATAATTCTTATTTATTATATAAAACAACATCAGGACTACAATTTCAAGATAATTTT
TATGTTGAGTACTTTTCAGATAGAA[A/
G]GCAAGAAGTTCATACATAAATTTTAAGCTAAGATATTTTAAGTTTCTAATAAAGTGTTTAGTTAAGTCCCATA
GTTGTGTATTTATCTACTTTATGTCAG A/G 1,407 0.175 0.057
0.077 0.055 82.3% 198 24.3% 152 51.7% 58 51.2% 80
NA 0 90.9% 66 87.5% 40 73.9% 92
97.5% 40 NA 0 25.6% 78 23.0% 74 51.7% 58
51.2% 80
rs115192 AB_ASSAYS_ON_DEMAND 5 117.7589 110995927
forward MIT
GTCTTCCAGGTCTTCGTGACTCATAGTCACTGGTTTCTAATGTTGGAAAAGGCCAGGCCATGTACCACAGATCTG
TTAACAAGAAGGATGAACAGATGCC[A/
G]TTAAGACAGAGGACATTAATATTTATAGATCTCTTCTTTGATAAAAGAAAATAGTCATCCTTCAAAATATCTG
TTGAGTGATAATACAGACCCGGCACCA A/G 229 0.275 0.095
0.107 0.085 6.9% 260 74.0% 250 37.9% 58 40.0% 80
3.1% 64 7.6% 66 0.0% 38 12.0% 92
5.0% 40 75.5% 94 71.8% 78 74.4% 78 37.9% 58
40.0% 80
rs28009 TSCAF 5 117.9335 111111169 reverse MIT
TATGGGGCCATGGTGTTTGAACCTTTGTAGGGAAAACACTGAAGGAGTTTGAGGAGGCCAGCAACATCATGTGTC
ATCTGTATTCCTTTGTTCTCTGAAG[A/
G]ATGAATGTGCAAAGCTACCAAGTGCCATTTAGCTGCTCCAGGGGCTGGCTGGTAAAGAACATGGACAATTCCT
GATACAGAAAGACAGGCGTACCCTCGG A/G 672 0.208 0.111
0.059 0.018 22.5% 302 86.1% 266 50.0% 56 73.8% 80
24.5% 106 15.2% 66 10.5% 38 30.4% 92
40.0% 40 80.4% 112 92.3% 78 88.2% 76 50.0% 56
73.8% 80
rs3317 PARRA 5 118.4324 112288367 forward MIT
AAGCCCCACAAAATAAAATGAAATATAACAGTTAAATGAGAACTCAATTTTATTTACATCTATTTATTTCCATTC
AGTGTATCACATCTTCAGGATAGGT[A/
G]ATAACAGTGTGAAGGGTGTGCTCATTTTCTTCAGCTGTGAGTAGAGGAGTCTTCCCGAGAGTAGCAGTTGTTG
ATCCAAATGATTGAAGCCTTCAGGTAA A/G 937 0.192 0.010
0.350 0.005 94.3% 264 41.8% 292 29.6% 54 50.0% 76
98.7% 76 93.5% 62 100.0% 36 88.9% 90
100.0% 42 41.4% 140 52.6% 78 31.1% 74 29.6% 54

50.0% 76
CV1186464 AB_ASSAYS_ON_DEMAND 5 118.7435 112702488
forward LGD
TTATTTTTGTACATAAATAGGCAACTGTCTACCAGACAACCAGATCAAGCAGACAACTACTCTGCAAGAATAAGT
AAAGTCAAGTTTTACCCTAATATTG[C/
T]TAAACCTTAAGATATCTTCCTTCCAGATACCTGGGATTATTTAACAAGATTAAACTACATACTGGCCCCACAA
ATTTAACCAAGACCAATAGAGCTAACT C/T extended_map 0.266
0.115 0.076 0.005 4.6% 194 68.0% 150 27.6% 58
75.6% 78 NA 0 3.1% 64 7.9% 38 4.3% 92
2.4% 42 NA 0 68.9% 74 67.1% 76
27.6% 58 75.6% 78
rs1382342 AB_ASSAYS_ON_DEMAND 5 121.2783 115637344
forward LGD
CTTTCCTGTTTGTTTTTTTGGGGATTTTTTTTTTTTTTTTTGCATATGTAGAAATTTCTGGTTGAAAACTAGACA
TTGGGAAACATATGGTGAAATGACT[A/
C]TGGGTTCTGTCATATTCTTTTGAGGACCTTGGTTTTTTGTTCTAGTAGGCAATTAACTTCCTTGGGTTGAAAC
CACAAACTGTCTCCTGTGAGGTATTCA A/C extended_map 0.272
0.014 0.260 0.013 89.9% 198 20.5% 156 32.8% 58
32.5% 80 NA 0 95.5% 66 90.0% 40 85.9% 92
92.9% 42 NA 0 16.7% 78 24.4% 78
32.8% 58 32.5% 80
rs267071 AB_ASSAYS_ON_DEMAND 5 124 117024719
reverse MIT
AGCATTGGCTTATGTGGCAGCTGTGGGACTTGAGCATTATAGGGTCAGCAATAAGTAGATAAATTATGGAATCAC
CTGCTTTAATGCTCTGAAAACCTTA[C/
T]GAAAATAAAATGACAGGCTTAGTTCAACCAATAATCAATTCAAAGTATGCTATGAAATTGAGAAGGCTGCATT
AGCAGAGTTTGAAGAAACACTTATCAC C/T extended_map 0.202
0.157 0.722 0.144 91.8% 196 34.6% 156 0.0% 56
1.3% 80 NA 0 93.9% 66 89.5% 38 91.3% 92
88.1% 42 NA 0 33.3% 78 35.9% 78
0.0% 56 1.3% 80
rs434363 TSCAF 5 124 117048732 forward MIT
TTTTCCTTGTCTATGATATGAAAAAGGTTTGCAGCATGGCAAGATCAATTAAGAGCAGAAACCCAAAAGCTGTTA
GCTGAAAAACAAACAAAAAATACCT[A/
T]TGGTGAAGCGTGATTTTTGGGTGAAGTTAAAGGCAGGAAGCTGGTAGAGTTCATAGGTTGTTTAGTGGATTAG
TTGATAGCATGTAAATATTTAAAATGT A/T 387 0.207 0.150
0.720 0.118 91.6% 322 33.7% 300 0.0% 54 2.7% 74
91.2% 136 95.2% 62 94.4% 36 88.6% 88
86.8% 38 28.9% 152 41.9% 74 35.1% 74 0.0% 54
2.7% 74
rs457106 APPLERA_RESEQUENCING 5 124.98 118889456
reverse MIT
GTGCCAAAACCATATGTTAAAAGGTTGTACATATTCCTCAATGTCATAAATCATTTCACAACACTTCACATAATC
TTTCCCTGTACACAAGAACCCCCAG[A/
G]CACAACATCTTAAATCCCCCTTGACAACCACATGCAACTCTACCTTCCATACTTCTGTTTCTTCATGTGTTCC
CATGCTGCCCGTGTCACTTGGAATGAA A/G 1,074 0.176 0.081

0.480 0.036 0.0% 196 37.5% 152 71.4% 56 60.0% 80
NA 0 0.0% 66 0.0% 38 0.0% 92
0.0% 42 NA 0 44.7% 76 30.3% 76 71.4% 56
60.0% 80
rs1191746 AB_ASSAYS_ON_DEMAND 5 125.35 119488874
reverse MIT
CCCTCCCCTTGGTGTCTGAAGTAGTAGTGGTCCCTTCCTATACTGCAAAATGGGTGAGTTCCCAGGATTCATGGG
CATACAAGGGAAGATGAAAAGATCT[G/
T]AAGGGCAGATGCAAGGTTTGGTGGGGGGTTGGAGATTGTATTTTCTGTCAATAGACTATCTAGGTACATTTGG
GTAACTAATTGGAAATAGTAAAAAAGA G/T 722 0.198 0.025
0.122 0.127 1.0% 194 46.1% 154 27.6% 58 8.7% 80
NA 0 0.0% 66 0.0% 40 2.3% 88
0.0% 42 NA 0 46.1% 76 46.2% 78 27.6% 58
8.7% 80
rs2731658 AB_ASSAYS_ON_DEMAND 5 126.3904 121535692
forward LGD
TTAAAAGTTGAGGGGAAGAAGCCAACAGAATAGAAGAAACTAAAGGTGCTAGAGAGGAGAGGCTAACCTGGGGGG
GGGGGAGGGGGCAAATTACCAGAGA[G/
T]AAATATATCCCTTTCTCTGAGACTGGTGGAAAGAAGGACAATTAGAAGGAATTTCCTTATAACTTACTATCTC
TAATTAAGGAGTTGAAAAGCACTTCAT G/T 1,301 0.175 0.028
0.118 0.030 15.3% 196 72.4% 152 53.4% 58 52.5% 80
NA 0 12.1% 66 12.5% 40 18.9% 90
17.5% 40 NA 0 70.5% 78 74.3% 74 53.4% 58
52.5% 80
rs922554 AB_ASSAYS_ON_DEMAND 5 128.4266 123621938
forward MIT
GGGTTGAGTAGAGAGCACACTACCCTGTACCTAAGAAAATAGCATGGGAGATGTCAACACCATCACCTAAGGGTC
CCACAACCCTTGGAGGATGCCATAA[A/
G]TGACCTCAGAGATTCTGGAAAGGCTCCTAGATATTCTAGATAAGTACATTTCCATAAAGCTACCCAGGTGGTT
TTCAGGTAAAGGAAATGAAGACCTGCT A/G extended_map 0.225
0.002 0.359 0.006 90.1% 304 28.1% 260 22.4% 58
36.2% 80 92.9% 112 96.9% 64 94.7% 38 80.0% 90
97.5% 40 23.1% 108 30.3% 76 32.9% 76
22.4% 58 36.2% 80
rs718359 TSCAF 5 128.6099 123785253 forward MIT

AAGGGATTCAACATTTGAATTTAGGAGAAACATAAACATTCAGACCATAGCACAGGGTAAAAGGGCTCAGAATCA
CTGAGTCTATATACATTTTCTACCC[C/
T]AAACTGAAGAAATAAGGAATATCAATTTCATGTCTGTGGATTTTTGGATTGTCCAGCATCCATCTTCTTTCTA
TTACCACTCTAATTCCTTTTGAGAAAT C/T 1,785 0.219 0.002
0.387 0.105 30.7% 322 94.5% 310 98.1% 52 65.0% 80
32.0% 128 18.8% 64 21.1% 38 41.3% 92
31.0% 42 92.9% 156 93.4% 76 98.7% 78 98.1% 52
65.0% 80
CV11532818 AB_ASSAYS_ON_DEMAND 5 130.6672 125999848
forward LGD

CCCAGGGAGGAGCCCCAGAGCACAATTAGGAAAAACTCTGCCTCTTCCCTAAACCTTGAACTCAATTGCTTAACT
CAAAATCAAACAAGTAGGATCCCCA[A/
G]CTGACTCTACTATTACCCAGGAAAGCAACCTGTTCCCACGTAGCACCCCCATTCTATTTGTTGGGAGGTCTAA
AAAGCACCAGAAGTATGAGAAAGGATG A/G 477 0.319 0.026
0.630 0.034 9.1% 198 84.0% 156 96.6% 58 65.0% 80
NA 0 10.6% 66 15.0% 40 5.4% 92
10.0% 40 NA 0 83.3% 78 84.6% 78 96.6% 58
65.0% 80
rs3533 AB_ASSAYS_ON_DEMAND 5 130.866 126279722 forward LGD

TAACTTCCAAATCATGCCATTTATTTTTCCTTAATGGATTTTACAGCTCATCTGAGTCTCTGCTGTGTTCTCTGA
GGAGCTGTAGAATTTGTGTCGATGC[A/
G]CTGTGTCCTCCGTCCTTCCCCAAATGAGCACATATGCAGGGCAGGCAAGAGCATGCTGGATTTGTCTTAGTTG
TTAATTCACCTTCTGGCTTCACTGTGA A/G 1,683 0.234 0.042
0.121 0.007 99.5% 196 50.0% 156 74.1% 58 60.0% 80
NA 0 100.0% 66 100.0% 40 98.9% 90
97.6% 42 NA 0 46.2% 78 53.8% 78 74.1% 58
60.0% 80
CV11819694 AB_ASSAYS_ON_DEMAND 5 133.3888 130592584
forward LGD
TATCTCCCTGTTTTAAGTAGTTTCTATCTTATCTGGAAGTCACAGGCTCTGAAACTTAGGTTCTGTGTTATTCAT
GTTCAGTTCCACTCCTCATACATTT[A/
C]TGAACCTCCTTAAGAGTGCACCTAGGTAAAGTGTCCCCACTGTTTCCAGGGATTTAAGTTTTTGTAACTCATC
AAAAATAATTTCTGAACAAATAAGATA A/C extended_map 0.213
0.028 0.487 0.001 78.1% 192 13.6% 154 1.7% 58
16.3% 80 NA 0 83.9% 62 81.6% 38 72.8% 92
85.7% 42 NA 0 15.4% 78 11.8% 76
1.7% 58 16.3% 80
rs2240525 AB_ASSAYS_ON_DEMAND 5 133.7266 131392100
forward MIT
GTGGAAGTGGGTTTGGGGACAGTTCTGGGCCACCCAGCTGGGGGATTCTGGCTGCTTGTTTCTGCTTTTAAATAC
TCAAAGGTGGGTTATAATAGTTACC[A/
G]GTGACTGACATTCTCTGGAAGTTTCATAATGCAGCTAGAGTGTTCGTCTTCCTGCTAAAGGCTCTCAAATCTT
TAGGTCTGAGTCTTACTTTTATCAATC A/G extended_map 0.284
0.016 0.234 0.072 98.0% 196 36.5% 148 51.7% 58
68.4% 76 NA 0 100.0% 66 100.0% 40 95.6% 90
97.6% 42 NA 0 43.1% 72 30.3% 76
51.7% 58 68.4% 76
rs77937 AB_ASSAYS_ON_DEMAND 5 133.7301 131398510
forward MIT
CTGTCTACTGCATCTTCTGGAGAGTTTGCCATATTCATAGTGAGAAAATAAGACTTCCCAAAGAAGTTACTTGAA
GAACCAAGGGTGGCCAGGATTGGCA[G/
T]CTCTTTTTTCTCCCTCCCAAATACCTGACTCCTGTTCCAGGTCCTTCCCTGGGCCCTCGGCCCACAGAAGTCC
TGGACACTCAAGTGGGCATTTCCTGGC G/T 724 0.31 0.129
0.110 0.203 10.3% 292 84.4% 250 44.2% 52 32.8% 64
10.0% 110 3.2% 62 7.9% 38 17.1% 82

```
5.3%    38      84.8%   112     79.7%   74      89.1%   64      44.2%   52
        32.8%   64
rs2227284       AB_ASSAYS_ON_DEMAND     5       134.1165        132088941
        forward LGD
GGGTGTCTATGAAGTCAAGGCTGTCTGAGGAACAGCAAAGTGGGAAGAAGCAAGCTGGCTGGCTGATGAAGGGTT
TCTTGGGTGGACAAGTAGTTGGAGC[G/
T]ATTTCCTATTTACCAAAGAGAGCTAAAGTTCATAATTCTACAGAGAGTTCCATAATGAACCTCAAATACCTCT
GTTTTTTGAAGGAGTTTCTCATATACA     G/T             extended_map    0.351
0.374   0.008   0.360   96.0%   198     21.8%   156     91.4%   58
90.0%   80      NA      0       95.5%   66      100.0%  40      94.6%   92
        97.6%   42      NA      0       20.5%   78      23.1%   78
91.4%   58      90.0%   80
rs2227282       SEATTLE_SNPS    5       134.1167        132089395
forward MIT
GGCAGACACACTCAGCAGCCAGAGCTAGACAGGCAGGTGGTAGGAGTCCAGGGCCACGGCAGGGATGGAGTGTCG
CCCCCTCGCTGCGATACCAGAGCAA[C/
G]TAAAACGTTAAGGCCTTGCACTAAAGCTGCCCTTAGGATGCATTCTTTTAAAGTTTTTCCATTTAATGCAGAC
TCTTTTCAATTCTTATTTTATCCTTGT     C/G             44      0.398   0.385
0.017   0.367   2.2%    184     79.3%   150     8.6%    58      10.3%   78
        NA      0       1.6%    64      0.0%    30      3.3%    90
0.0%    40      NA      0       80.3%   76      78.4%   74      8.6%    58
        10.3%   78
rs30533 AB_ASSAYS_ON_DEMAND     5       134.1625        132171190
reverse MIT
GGGCTTGTCACTGGTGTCTGGTCTCCCTGCTTTTCCCATGTGGCCTGGGCTCCATGATACGTTCTCCAGGCCTGG
GCCTGGAAAACAGGTCTTTCCTGTT[C/
T]TCTGGACCTGCTAGAAAGCTTCAGTCAGTTTGGTCCCTGGGAGAGAAAACGCTCTTCCCATGACGGCTCTGTG
GAGGCCAGGAATGGGGTAGGTGGGTTG     C/T             extended_map    0.369
0.094   0.196   0.324   92.9%   198     13.5%   156     46.4%   56
78.7%   80      NA      0       95.5%   66      92.5%   40      91.3%   92
        95.2%   42      NA      0       10.3%   78      16.7%   78
46.4%   56      78.7%   80
rs6596099       APPLERA_RESEQUENCING    5       134.3509        132479575
        forward LGD
TCAGGTTAATGCCTTTTAATTAAAATGCATTATTATATTTTATCAGTTCAATATCTATCTGTACTTTTCTGATGT
CAGATTGCAATGAAAATGCTTACAG[A/
T]TGCTTAGGGAAAGCTTTTTTCTAGTAAAGACTATTTGACAATTTTTGAATGATCTGGATGTTGGTTGGGAGCC
ATGAGTGGTGCTCTTAATATGGGTTGG     A/T             2,007   0.104   0.026
0.296   0.075   32.3%   192     78.6%   154     93.1%   58      47.4%   78
        NA      0       30.3%   66      38.9%   36      31.1%   90
47.6%   42      NA      0       82.1%   78      75.0%   76      93.1%   58
        47.4%   78
CV25637683      APPLERA_RESEQUENCING    5       134.5265        132632648
        forward LGD
ATATAGCAAATGGAATTTTAGAAATCAAATGGCATGCCTGGTTAAAGATAGACTTTTAGGATTTTGCCTGTGTAT
GATGTAGAAGCTGCCCCAGGCACAG[A/
```

T]TACTTACATAGCTCATGAAAATCTTTTCCGTGGGTTTGAGGTGCCTCTGGATCTCACAGTCCACAGGATGGAT
GACGATGATACCGTCGTCGGAGAAGAC A/T 1,303 0.28 0.002
0.434 0.001 30.3% 198 100.0% 156 100.0% 58 100.0% 80
NA 0 27.3% 66 30.0% 40 32.6% 92
16.7% 42 NA 0 100.0% 78 100.0% 78 100.0% 58
100.0% 80
rs2241583 AB_ASSAYS_ON_DEMAND 5 134.5321 132637493
reverse MIT
CAGATGTCCAAACAGCTCTCCCTTTTAGGTAAGAACTGCCCTTGGTAGACGTCTATGCGATATTCCCATTCAAAT
CAAGCTGAGACTCCAGGAATGGAAA[C/
T]GAGAGGTATAATTTGTTTATAAGTCAGACAGGTTAGGAGTGAACAGATGGCTCCCAAATTTCCCTGTTATCTG
GGCTCACACAGATCTTTTGGGGCTTTC C/T extended_map 0.229
0.024 0.168 0.065 93.4% 198 33.3% 156 51.7% 58
63.7% 80 NA 0 95.5% 66 95.0% 40 91.3% 92
92.9% 42 NA 0 29.5% 78 37.2% 78
51.7% 58 63.7% 80
CV11274604 AB_ASSAYS_ON_DEMAND 5 139.38 138736575
forward LGD
AGGTGTGAGCCACCATGCCTGGCCCAGAGCTTGGTTTTTTAGCCATTACACTGTTTGAGTATTTGCTCTAAAGAG
TAGGTATTTGCAGTATACTGTCTTA[C/
G]AAAGGATATTGCTCAACTTTTACCAAATCAAGTTTTTTACACATTGCCTAGCAGCATTGTAGTCTCAGAAAAG
ATAAAATATGAATATTCCTATCTCATT C/G 460 0.297 0.009
0.299 0.217 6.1% 198 75.6% 156 65.5% 58 21.2% 80
NA 0 6.1% 66 12.5% 40 3.3% 92
5.0% 40 NA 0 79.5% 78 71.8% 78 65.5% 58
21.2% 80
rs7447927 AB_ASSAYS_ON_DEMAND 5 139.38 138889647
forward LGD
GTACTGCAGTGAGTCACCTGGAGTGGATGTGGCGCAGCTCCTCAGCCAGGCTGCAGACCCCGTTTAACAGCAGTC
CCAGCTGCAGGGAGGCTAGGTGGAG[C/
G]ACCAGGTACCGGAGAGTGTGCTCTGGTGGCTCTCCTAGCCCCCAAAGGGTCACCAGGCAGGCACTCAGCAGAA
CCAAGGCTGCCTTCTGGGCCCCGTGAC C/G extended_map 0.227
0.120 0.053 0.074 9.6% 198 72.1% 154 31.0% 58
40.0% 80 NA 0 9.1% 66 17.5% 40 6.5% 92
2.5% 40 NA 0 75.6% 78 68.4% 76
31.0% 58 40.0% 80
CV19890900 AB_ASSAYS_ON_DEMAND 5 143.1011 142187100
forward LGD
AAGGGATAGAAAAAAAAAAAAAACTTAGTGTGTGTGTATGTGTGCCAGGGAAAGAGAGATGACAATTAATTGGAT
GTGTCCCTATTAGCCCTGGAACTGC[C/
T]TGATATGCTTTCTGAGTGGCATGTTCTTATAGGTCAGATGGGAGATGGGATGGGGCTTTGCCCATATCTAAGA
GTCTATTCTAACCTCCAGGCTCAGGGA C/T 75 0.357 0.003
0.473 0.106 13.6% 198 94.2% 156 91.4% 58 63.7% 80
NA 0 9.1% 66 5.0% 40 20.7% 92
2.4% 42 NA 0 93.6% 78 94.9% 78 91.4% 58
63.7% 80

rs35294 AB_ASSAYS_ON_DEMAND 5 143.6278 142387537
forward LGD
TTTTTTCTGGCTCAGTCTGTGTGTCCAGTTGGAGTGAGTCTGCTCAGAAAGTGGATTCTTCCACCTTGGGAACCC
TGTGCATCCAGAGACTATGGGACAT[A/
C]TTCCTTTTGACTCAATGTTTCACTTGGGATCTGGCAAACATAGACGTATCTCTTGAGGGCTAGGAGTGCCACT
GATGGGGCCACATTATCAATCCCTGCA A/C 1,113 0.284 0.135
0.082 0.401 90.3% 196 19.5% 154 62.1% 58 91.2% 80
NA 0 90.9% 66 89.5% 38 90.2% 92
85.7% 42 NA 0 19.2% 78 19.7% 76 62.1% 58
91.2% 80
rs7704574 AB_ASSAYS_ON_DEMAND 5 147.1055 145215622
forward LGD
TTCATAAATGCGCAGAGCATGTCTATTTTTTATCTTATTAAGTCTTCACATCACTCTGTGAGGGAGCTCAGGCCA
GCTTTATCCCTTTTCCCAGAGTCAA[A/
C]GAGCACATAAAATGACCAAGCAGAAACAAGAAGAGAAGCTCCCATATTACTGGCTCAATGTAGAGATTCTCTC
TACATGGCATTTCCTACCAAATCCTAC A/C 1,456 0.208 0.007
0.201 0.027 6.6% 198 63.2% 152 53.4% 58 43.8% 80
NA 0 6.1% 66 2.5% 40 8.7% 92
9.5% 42 NA 0 64.5% 76 61.8% 76 53.4% 58
43.8% 80
rs2400228 AB_ASSAYS_ON_DEMAND 5 148.4269 146098108
forward LGD
AGCATGGTGGTCAGCACAGAGTCTATATTCAAAAAGTAACTGCTGAATAAGCAGATGTATCAATAAATGAATTAT
TAAACAAATAAACAAGTGAGCTAAT[C/
T]AAGCATACAATGACCATCCCATTTTGGCTTTCAAACATAGGGCAAGAACCTATTTTCCTCACATCTACTTCAC
TGTCTCCCTTCTTACTTTTGGTCTTTA C/T 684 0.224 0.041
0.121 0.182 3.0% 198 57.1% 154 32.8% 58 10.0% 80
NA 0 3.0% 66 2.5% 40 3.3% 92
2.4% 42 NA 0 53.8% 78 60.5% 76 32.8% 58
10.0% 80
rs1380014 AB_ASSAYS_ON_DEMAND 5 148.6739 146264232
forward MIT
TTGCCTCTTGACCCCAAGCTCTTTTTCTTTGTGTCTTGACCCCAAGCTCTTTTTCTTTGTTTGAGCAGTTAATAT
ATCTACTTTGTTCTCTAGCTTATTC[A/
G]ACAAACCTAACATCAATAAAGCAGGCTCTATTCTTGTTTAGCCAACACTCTCTCTCCTGGTAATTTTATAACC
AGTTATATCATCCCCATGTACATTTGG A/G 178 0.305 0.089
0.125 0.110 98.0% 196 33.3% 150 69.0% 58 72.5% 80
NA 0 98.5% 66 100.0% 38 96.7% 92
97.6% 42 NA 0 39.5% 76 27.0% 74 69.0% 58
72.5% 80
rs589793 AB_ASSAYS_ON_DEMAND 5 148.791 146343020
forward LGD
CTGATAATGTCTGTAAATAAGGAGGGGTAATCTGAATGTAGAATGATGGAGAAGATAGAATTTGCCTTTGGTATG
GAAAAAAAGATGGGAAATTATCACT[C/
T]TTCTACTGCAAAGCATTCATACTCCATCAGTTACCATTGATTAATTTATGCATTTATTTATTTTCCCTACAAT
TATGTATTGAACTTATATTAGTTTCTA C/T extended_map 0.125

0.150 0.002 0.131 19.9% 196 69.1% 152 23.2% 56
26.3% 80 NA 0 21.2% 66 17.5% 40 20.0% 90
9.5% 42 NA 0 65.4% 78 73.0% 74
23.2% 56 26.3% 80
rs1480155 AB_ASSAYS_ON_DEMAND 5 149.0026 146459674
forward LGD
TTGACTCAAGCTGAGTTTTCAAGCATGGGTAGAGAATAGCAGCATGGAAATGAGATAAAGACAATTTCGGGAAAG
GAAGAAGCACGTGGCAAGTCACAGT[A/
G]CCCTTGTCCCTTTAGGAAAAGAAAGCGTCCCTACTGATTTCTTAGATAACAATAACAGGCCCTCCAGTGCCTG
GTGCCAAATTAGGTCCACCAGAAAGTA A/G extended_map 0.248
0.038 0.146 0.087 2.6% 196 59.6% 156 36.2% 58
25.0% 80 NA 0 3.1% 64 0.0% 40 3.3% 92
0.0% 42 NA 0 56.4% 78 62.8% 78
36.2% 58 25.0% 80
CV2083383 AB_ASSAYS_ON_DEMAND 5 150.03 147337306
forward LGD
AGGAAAAAACCAAGAAGCAGGGAATTAATTATGAAAGTATTCTATTAACCCAGGCAAGAAAAAAGGTGGATTAAA
CATGATTTTTTTTTCTCAGTGGAAA[A/
G]TAAGCAGAGGATAAAATTCCTGGCAGTGTTATTAAGCTAAAATTTGTTAGACCTGTCTTGGAATCTAGGTGAT
CGGCAGGGAAATTATAGTGACTTTACC A/G 1,731 0.137 0.000
0.190 0.041 18.9% 196 70.1% 154 69.6% 56 46.3% 80
NA 0 15.2% 66 22.5% 40 20.0% 90
11.9% 42 NA 0 73.1% 78 67.1% 76 69.6% 56
46.3% 80
CV3170267 AB_ASSAYS_ON_DEMAND 5 153.7158 149329845
forward LGD
ACTTCACCCATCAGAACCGGCCACACATCAAAAAATTCCTAGGAATGAGAAAAACAATAATTACATGTTTTGAAA
AGAGATCAAGGAAAGGAGATTAAGA[C/
T]GTCCCACCTCCATGAGTCAGCTAACACTGAAATTTAGAAAGTGAGAAGAACTCAGTGAAACCTAAACTTGGAA
AGGCAGTAAGACTCACTACAGTTAGAA C/T 1,124 0.207 0.101
0.070 0.020 26.0% 196 89.6% 154 56.9% 58 77.5% 80
NA 0 22.7% 66 25.0% 40 28.9% 90
31.0% 42 NA 0 91.0% 78 88.2% 76 56.9% 58
77.5% 80
rs216141 AB_ASSAYS_ON_DEMAND 5 153.9805 149472504
forward MIT
GAAAGCTTCCAGCTAACCATCAGGAAGAACTTCTAGCTGGTAGTTAGAGAGAAAAGACTGCAATTAGAAATGAGA
AGGAACTAACTTCCAGGCTCTGATT[C/
T]GGAAGGGCGGACTGCAGGTGAACTTCAGAGCCTCTGCGTTATAGCTTGGGAGAGAGTCTGAAACGGGACCCAG
GGAGAAGAGCTTCCCAAGCCTCTGAGG C/T extended_map 0.169
0.003 0.294 0.032 16.5% 194 73.1% 156 79.3% 58
52.5% 80 NA 0 19.7% 66 12.5% 40 15.9% 88
11.9% 42 NA 0 69.2% 78 76.9% 78
79.3% 58 52.5% 80
CV2086189 AB_ASSAYS_ON_DEMAND 5 154.378 149686711
forward LGD

AGGACAGGGCAGGAGAGGCAACGAGGCCAAGTTGGGGAGGGCAAGGGTGGGAAGCGATGGCCAAGAGTCCCAAGA
GGAAGGGATGAGGCCTGGGTGTGAG[A/
G]GCTGTGGCGGATGGCCATGGGCAGTCCTGGAAGTGCCTGTGAAAGTGTTTCTGAATTCCTCGAGGGGTGTAGG
GGAATGCCCCTGGGTGCAAAGGAGGAG A/G 1,870 0.136 0.016
0.318 0.089 72.6% 186 20.1% 154 8.6% 58 54.1% 74
NA 0 79.7% 64 55.6% 36 74.4% 86
78.6% 42 NA 0 14.1% 78 26.3% 76 8.6% 58
54.1% 74
rs2569107 AB_ASSAYS_ON_DEMAND 5 154.6817 149850357
forward MIT
CCACGATTCCAGCCAGCTGTCCTTTATGCTGCTTGGCACAAGACCTGCACCAGTGTAAGAATAGCAGCAGCTTCT
TCAGTGCCAGGCACTGCGCTAAACA[C/
T]TTTGATCTTGTGTGATTCCATTTGAGGCAGCCATCATCACAGGAGTTTCCACTAAACGGCTGAGAGGTTAAGT
ACTTTGCCTAAGGTTGAACGGTCTGAA C/T 478 0.253 0.009
0.482 0.092 74.2% 194 5.2% 154 0.0% 58 32.5% 80
NA 0 77.3% 66 80.0% 40 69.3% 88
81.0% 42 NA 0 3.9% 76 6.4% 78 0.0% 58
32.5% 80
rs6869603 APPLERA_RESEQUENCING 5 155.5506 150171359
forward LGD
CCTATGGGATTTCCTCATGCCCATAGACTGCCATGTGGGAGGGGATGGCTTGAAGTTAGGCAACAGGGAGGCCCT
GGTTGGGCCAGGGGACAGTTTGTTT[C/
T]TCAGTTTGACCAAATTCAGCCACTGGGGGTTTATTTCCTCAGAAATTACCAAGACTATTTCTTCTCCCTGAGG
TCAAAATAAAAACATCCAGGAAAGGAC C/T 212 0.285 0.013
0.547 0.034 20.2% 198 93.5% 154 100.0% 58 78.7% 80
NA 0 13.6% 66 12.5% 40 28.3% 92
7.1% 42 NA 0 92.3% 78 94.7% 76 100.0% 58
78.7% 80
rs1862364 AB_ASSAYS_ON_DEMAND 5 156.1987 150476886
forward MIT
AGATCCCTGCTCTCCCTCCAGGCTGCCCACAGCCCATCCTCCATTTCCCTTCCTGCCCAGCAATCCCATGGCACA
CCACAGGCCCCCACCACATCTTCTC[A/
G]GAGTCTCTTTCCACCTGGCCTGGTTCCACAAACTACAAATCAGCAGGTGCTCCACCAGCAGTGGGACTCCAGC
CCCGCTTGCCCAAACCAGAAACAGCTG A/G extended_map 0.125
0.008 0.269 0.003 59.0% 188 10.3% 156 3.6% 56
6.2% 80 NA 0 64.5% 62 58.3% 36 55.6% 90
62.5% 40 NA 0 9.0% 78 11.5% 78
3.6% 56 6.2% 80
rs960709 TSCAF 5 156.2256 150489559 forward MIT

GAACACAGGCCAGAACAGGGAGGGGACCTGCCAAAAGGCACGTAAGCATTTGGCCCTAAGCCAGAGCTGGAGCTC
AGGCCCCCAGAGTTCCGTCCAGGGC[A/
G]CTCCAGGACTCTTCTTAACAAAGCTATAGAAATTCCGAGCTGAAAAGACCCATAAAGACTCTACCGCGAACAT
TTTTTGCTCCAGACATTGTAAAGGATT A/G 1,519 0.189 0.065
0.077 0.216 83.5% 310 24.0% 254 53.4% 58 78.2% 78
87.5% 112 87.9% 66 80.0% 40 77.2% 92

75.0%	40	24.0%	104	18.4%	76	29.7%	74	53.4%	58
78.2%	78
rs165335	AB_ASSAYS_ON_DEMAND	5	157.1105	150906687
forward LGD
TGAAGCCAGGTCTGTCTGACATCAAACCTCACGTCCTTGCTGCTGCAATCTTCTCCCCTGCCAGTTGATTCCTTC
ATTCCTCACCTCCTTCACTGAGCAC[A/
G]GCACATTTCCAAGCCTGTCTTTTGACTCCAGCCTGCTTTGCACCCTGCCCTCCATAAGTCACTCCCAGCTGTC
AGAACTACCCACCATTGCCCAAATACT	A/G	1,377	0.189	0.016
0.398	0.012	15.7%	198	75.3%	154	87.9%	58	86.3%	80
NA	0	16.7%	66	10.0%	40	17.4%	92
37.5%	40	NA	0	71.8%	78	78.9%	76	87.9%	58
86.3%	80
rs7709924	AB_ASSAYS_ON_DEMAND	5	158.7327	152994979
forward LGD
TACTCAAATGTAAAGAAAAGCACAGAAGCATTATTGAGATGGTTTGAGGGTCAGCCGGATATTTCAGTACACAAG
AAAACTGATAGTCCACTTGAGGCAC[A/
G]TTTCCAGACAGGGTCTTAACTTCTCCTCACTGCTGATCTTGTGACATGTTCTCTGATGAAGGGCTTTTTTAAG
CTCTAGGTTGAATTGCTCACCCATTTC	A/G	784	0.285	0.007
0.283	0.004	96.4%	196	31.8%	154	41.4%	58	25.0%	80
NA	0	95.5%	66	100.0%	40	95.6%	90
92.5%	40	NA	0	42.3%	78	21.1%	76	41.4%	58
25.0%	80
rs246877	APPLERA_RESEQUENCING	5	161.4464	156547701
reverse MIT
TTTTGTCAGAGTGTTTATGAGAGATACAAGTAAGTGTTTGCTATTGGAAATAAATCTATAACATAAAACAAAAGT
GATTGTGATATGAGATTGGGAGACA[A/
G]CCTGTGTAGTTTGGTTATGGAAGAGTAAAGAAATGGGGCATAAGTGGTGAGGGGCATGGAGTCCAGAAGATTT
TCTTTAGAGATGAGAGGATGCTACATA	A/G	1,774	0.091	0.000
0.144	0.010	28.1%	196	71.3%	136	73.1%	52	81.6%	76
NA	0	21.9%	64	32.5%	40	30.4%	92
23.8%	42	NA	0	76.5%	68	66.2%	68	73.1%	52
81.6%	76
rs6555939	APPLERA_RESEQUENCING	5	161.5558	156728509
forward LGD
AATTGGGGCAGAAATGAGCATGCTTTACAAGCACCCCAAGAATTCAAATGTGGGTGTTCCTGGGACACCATGGGC
CCTAGAAACACAAGCTTGTAGTGAC[G/
T]TTTTCCCATGGTGAAACGTGGTCTAAGTCTTAGTTCTTCCTTCCCCAGCGTCCTGCAGGCAATTCGAAAGACC
ATCTGTGACTGGGAGGGAGGGCGAGAG	G/T	extended_map	0.038
0.062	0.229	0.018	59.4%	192	30.9%	152	6.9%	58
16.7%	78	NA	0	71.0%	62	57.9%	38	52.2%	92
57.5%	40	NA	0	28.9%	76	32.9%	76
6.9%	58	16.7%	78
CV11271851	AB_ASSAYS_ON_DEMAND	5	161.7682	157079341
forward LGD
ACTTCTTCCAGACCCGTCCGTCTTCACAGCAACGCGCCGGGTCTCACCACGGCGGATGCCGAGGGACAATATTAC
CGCGTCCGTGGCCGCCGGACTCTGC[A/

G]CGCATGTCCAACAGCCCCCGTCCCCTTCCCCGCAGCCAATATGTGTCTCCCAGGCAACGCGCCGCGCTCGGTT
CAGGGCTCCGCCCAGGGACTCACTCCG A/G 409 0.199 0.006
0.351 0.005 90.9% 198 33.3% 156 24.1% 58 25.0% 80
NA 0 92.4% 66 95.0% 40 88.0% 92
97.6% 42 NA 0 32.1% 78 34.6% 78 24.1% 58
25.0% 80
rs2617503 AB_ASSAYS_ON_DEMAND 5 165.0982 160746101
reverse MIT
ATTAGAAGTTCAAATGCTCTATAACTCTTCCAAAAAACTGTAGTTCTGCATCAGATAAAGATGGCTACTCTTATG
AATAAAGGGAACTGTAGATTTCTAG[A/
G]AAAGCTAAACCATACAGCCTGAGCTGTGCTGTTTGATGTAGATTCTCCAATTGAAGGTATCCTACTTCTTTGA
AAAAAAAATTTGTTTCTACCTTATTTT A/G 1,013 0.128 0.134
0.004 0.020 14.1% 198 61.7% 154 19.0% 58 77.5% 80
NA 0 18.2% 66 5.0% 40 15.2% 92
7.1% 42 NA 0 68.4% 76 55.1% 78 19.0% 58
77.5% 80
rs4976539 AB_ASSAYS_ON_DEMAND 5 175.3964 167618169
forward LGD
AGCACCCAGCCTGCTGTGATCCTGGACTGGAATAGCAGTGACCTCAGCCTTTCTCCAAAGCTCATATTCGTATGA
TCATTCAGGCTCTACACTCTCCAAC[A/
G]ACTTGATCCTTCACCCCGCCCTTCTCCTTCCCCCAACATAGATCTTATATTAATCAACTGAAAGCAGATGTTC
TTAGGAAAGAAGTAGGTCAGGCCTGCA A/G extended_map 0.144
0.000 0.216 0.233 75.0% 192 21.2% 156 20.4% 54
77.5% 80 NA 0 84.4% 64 73.7% 38 68.9% 90
78.6% 42 NA 0 16.7% 78 25.6% 78
20.4% 54 77.5% 80
CV2708523 AB_ASSAYS_ON_DEMAND 5 175.4342 167637921
forward LGD
GTGTAATTGATTTTTGATATGCTGCACTGTAGAAGTTGATTATAAGTAGTAATCGTGCCTTTTCTCTGATAAATC
AGTTATGCATTTTGACTAAGTTTTC[A/
C]AAATAAAGATAAATGTGGCCCTAAAATAAAGTGGCTATAATCCCAACTCCAAATATTAAAACTCTTTCTTTAA
TAATGGTACTTGTGGTAATTAGCCCAA A/C 127 0.32 0.063
0.201 0.176 9.7% 196 85.1% 154 58.6% 58 37.5% 80
NA 0 6.1% 66 12.5% 40 11.1% 90
2.4% 42 NA 0 89.7% 78 80.3% 76 58.6% 58
37.5% 80
rs262838 AB_ASSAYS_ON_DEMAND 5 178.8484 169155589
forward MIT
AATATGCAAACTTGTATCCAGTGAAGGCCTGGGCTGGCCACTAGGTTAAAGACCAAGGGCTCCTCAGGACAAGAG
AAAACGTATTTATTGTTTGTTACCC[A/
G]TGAAGCTAGCAGTGCCTTCTTTTAAAATAGCTCTGAAATTTTTGTTACCTAGAAGGAAATTAGTCAAACCGGA
TCCACTTCCAATGGAGAGAACAGTTCA A/G 1,059 0.145 0.197
0.001 0.013 71.6% 194 17.5% 154 69.0% 58 28.7% 80
NA 0 66.7% 66 85.0% 40 69.3% 88
83.3% 42 NA 0 10.5% 76 24.4% 78 69.0% 58
28.7% 80

rs2270895 APPLERA_RESEQUENCING 5 179.7257 169449138
forward MIT
TCTCAAGGTACAGTCACTTTGGGTGAAGGGCATTTATGCTGGGATCCTGACAGGGCCTCACAGCAAGTTGAAGAG
TGAAAAAAGAAAAAAAAGAAAAAGA[A/
G]TCCAAATATTTTGTTTTGCCCTGTGTCTCCAAACTCTTGAGCTGGCAGGATACTTTTTGCACTGCTTCCCTGG
TCACATGTGGTTTTGAGTGATCTTTAC A/G 1,689 0.083 0.073
0.350 0.016 13.8% 160 51.0% 98 82.0% 50 66.1% 56
NA 0 3.7% 54 21.4% 28 17.9% 78
12.5% 32 NA 0 47.8% 46 53.8% 52 82.0% 50
66.1% 56
rs6870231 AB_ASSAYS_ON_DEMAND 5 185.022 171570835
forward LGD
GAAAAGGGATGTTGTCTCCTGATGGTGGAGGAGGCCCAGGTGGGGACCATTTTCCAGGAGTGCACAAACCTTGCC
TTGCCCACCATCCTGAAAGGCAGCA[C/
T]TGACCAGACGGCCAGGCCTCAGCCAGTACCAGTGTCAACACAAGGCACGCCCGCTACCCAGCACCTCACTCAG
ATTCCATGGAGACCAGAACCTGCCAGA C/T 602 0.165 0.021
0.106 0.004 95.8% 192 50.0% 156 67.2% 58 57.5% 80
NA 0 97.0% 66 97.5% 40 94.2% 86
95.2% 42 NA 0 56.4% 78 43.6% 78 67.2% 58
57.5% 80
rs871574 AB_ASSAYS_ON_DEMAND 5 185.8054 171827266
forward LGD
GTCCACCTTGCACAGGGCCTGGACGCGTGCCTCGACATGTCAGCAATGAACAACATTTGCATAAGCACTTCCAGG
GCCCCCTTCCCACTCCGCTTCTCAT[C/
T]AAATCTCTTCCAGATGACTCTACGTCCCCACCTCCTCGGCAACAGCTGACAGGCTCAGCAGTGAACTATGATC
CAGGGCCCTTAGGACAATCAGATTCTC C/T 1,379 0.08 0.173
0.007 0.085 20.2% 198 59.2% 152 12.1% 58 25.0% 80
NA 0 16.7% 66 25.0% 40 20.7% 92
16.7% 42 NA 0 57.7% 78 60.8% 74 12.1% 58
25.0% 80
rs717440 TSCAF 5 192.9644 174004631 reverse MIT

TGCTAGAAGGTAAGCTCTTCCTTCTCTGCCACCTTTCTGAGCACTTAAACCCTTAGGTACAAATTGACCAAGAGA
AGCCCTAGAAATCCACTTCTAAAAC[C/
T]CCTAAAGATTATTCTGCATGAACAGCTAAGAAAGTTCAAATTCCATGCATTTCTTAGTTGTTTGATCATAACA
GCAGAGTGTGGAGCCATAAGGCAGCCT C/T 1,422 0.085 0.007
0.187 0.004 21.7% 180 62.3% 154 72.4% 58 70.0% 80
NA 0 25.8% 62 17.9% 28 20.0% 90
15.0% 40 NA 0 63.2% 76 61.5% 78 72.4% 58
70.0% 80
rs1363682 AB_ASSAYS_ON_DEMAND 5 193.9847 174577346
forward LGD
GGCAAGCCACATGCCCAAGCCCAGAATCAGTGTGGAGAACTGCAAAGGGCATAGGCACAAGGAGACACCATTCAC
AGGGAGCGGCAACATAGCAATATAC[C/
T]GCAGCCCATTCTCTGGCCCCAAAATCCACGTCACTTCCACGTGCGCTCATCCACCTCTAATACACGCAAGGCC
TCATCCAACTATGGCATCTGCTGAAGT C/T 1,550 0.114 0.056

0.033 0.025 74.0% 192 26.0% 154 53.4% 58 43.8% 80
NA 0 66.7% 66 80.6% 36 76.7% 90
71.4% 42 NA 0 26.9% 78 25.0% 76 53.4% 58
43.8% 80
rs632994 AB_ASSAYS_ON_DEMAND 5 194.919 175101821
forward MIT
TCTGCCCCGCTTTTGTTCCACCTGGTGTTCGTTCCTGAACAGGCTGCACATCTCTCCCTTTTGTGGCTGCTGAGT
TTCCTGCCGTCTCCCCCATTCACTC[A/
G]TCCCTTACCAGACACTCTCGCAAGCTGGGAAGCTATTTGTGACATGGCAGTGGTCTGTTGCCAGAGCTCTGAA
GGCTGACCTCCCCAATTTGCTGGCTGG A/G 467 0.253 0.010
0.484 0.010 80.6% 196 10.9% 156 3.4% 58 19.2% 78
NA 0 73.4% 64 85.0% 40 83.7% 92
76.2% 42 NA 0 12.8% 78 9.0% 78 3.4% 58
19.2% 78
rs521389 AB_ASSAYS_ON_DEMAND 5 196.9318 176231759
reverse LGD
GTGGAGGTGCTGTGCCCTGAGAAAGTATTTCAGCAGTTAAAACAATGGGCGGCAGAGAAACTACCAACCCCCTCG
AGATGGAGCCATCCGTCCAGAAAGC[A/
G]CAGTTCTCAAAGGGTAAGAAACTTCTCAAGACCAAATAGGGTGGAGCTGAGAGGAGTCCAAGTCAGTATCCAG
CCGTCCTTTCCCTTTTCCCACCGAGAC A/G 187 0.295 0.002
0.424 0.011 78.1% 196 3.9% 152 5.2% 58 10.0% 80
NA 0 80.3% 66 82.5% 40 74.4% 90
67.5% 40 NA 0 5.1% 78 2.7% 74 5.2% 58
10.0% 80
rs2913851 APPLERA_RESEQUENCING 5 199.8506 177788818
reverse MIT
CACCGTGGGTGGTGATACAGGTGCTGGACACAAAGGACTCACAGGCCATTGCCGTCCTGCAGGGCGCTGACGGCC
TCAAGGGGGAGAAGGGGGAGTCGGC[A/
G]TCTGACAGCCTACAGGAGAGCCTGGTAAGGGGGTATGGGGGGGTCAGGGCTTCCCCCAACACCCAGTCCAGGC
TGGGTGGGGACCCTGAGCCTTGGGACA A/G 1,956 0.087 0.000
0.123 0.052 90.0% 180 54.3% 140 53.4% 58 80.0% 80
NA 0 95.3% 64 100.0% 26 83.3% 90
97.4% 38 NA 0 51.4% 74 57.6% 66 53.4% 58
80.0% 80
rs262071 AB_ASSAYS_ON_DEMAND 5 200.7335 178105969
forward LGD
CAATGTAAACCCTTGAAATCCCCCCGCTGAGGGCAATTTCGGAGCGACAGACTCTGTCTCCTCAGGGAGGCCCAG
CTCCAGGGTCCATCCTGTGAGTACA[C/
G]GCACACCACAAACACCAGAGGAAGGGCTTGTCGAGAACCAAATGCTGACCACAGGCACAGCTTCTCTGCTCCC
CTTCTACCTGCTTACGAAGAGACAGTT C/G 898 0.309 0.158
0.066 0.068 1.0% 198 63.5% 156 17.2% 58 32.5% 80
NA 0 1.5% 66 2.5% 40 0.0% 92
2.4% 42 NA 0 67.9% 78 59.0% 78 17.2% 58
32.5% 80
rs469318 AB_ASSAYS_ON_DEMAND 5 203.9762 179449668
forward MIT_and_LGD

CAGTCTGTGACGCTCCGCAGATGTCGGTGGCTATAGAGAGAGGTGGCTAGGGAAGGCGATGATCCGCGGATGGGT
GGGGAACTGAGGAGGCCAAGTCAGC[C/
T]TTGCCAGGCCACCATGTGCCGCCAGGAGCTGGGCAGCCTGAGGAGAGCAAAGATGGGCCGGGAGCCTCCACCT
CAACTGACAGGAGACTGCTCACCACAT C/T 632 0.247 0.142
0.049 0.062 7.1% 198 70.5% 156 25.9% 58 41.2% 80
NA 0 6.1% 66 0.0% 40 10.9% 92
0.0% 42 NA 0 67.9% 78 73.1% 78 25.9% 58
41.2% 80
rs307822 AB_ASSAYS_ON_DEMAND 5 205.122 180138379
forward LGD
CATGCGTGGGTGGGTAGTGAGGAGAAGGGAGCAGAGGTGCGCGCCAGGAGCCAGGCTGGTTCTCTGCAGAGAACA
ACCTCCAGATCCTCCCAGGGAAGCC[C/
T]GACACGCCAGTCCCACGTTGGACGACGTGCAGAGGAAGGGGGAGGTCCACGGGGACGACGAAGATGACCTTAT
ACGTGCACTCGGCATATCCTGGAGTAA C/T 1,760 0.127 0.137
0.008 0.099 54.2% 190 6.5% 154 43.1% 58 36.2% 80
NA 0 50.0% 66 58.3% 36 55.7% 88
45.2% 42 NA 0 9.0% 78 3.9% 76 43.1% 58
36.2% 80

rs670902 AB_ASSAYS_ON_DEMAND 5 205.4525 180324515
forward LGD
GGCCCCTCAGCCTTGGCAGGCTTCTCATGCAGGGCCCAGTGAAGGCTCAGGAGGGCCTTGGCCAGACTCCATCAG
ACATTTGTCTCCACTGGGGGCGACT[C/
T]GATCCACAAATGAGATCCCACCAGTGACCCAGGTAAGAGGATTGCAAAGGCCAAGAGGCTTGAGGAGGGAAGG
CTGCCCGGAAGGCAGTCTGTCCTGGAG C/T 1,424 0.167 0.054
0.075 0.002 20.7% 198 77.9% 154 51.7% 58 73.8% 80
NA 0 19.7% 66 17.5% 40 22.8% 92
9.5% 42 NA 0 82.1% 78 73.7% 76 51.7% 58
73.8% 80

CV3167335 AB_ASSAYS_ON_DEMAND 5 206.0638 180785842
forward LGD
TTTTTATTGCTACCTGCTAAAAACGCACTTATTGTCACGGTGCAGGCTAGGTTGGAGGAGTAAAACTAGAGACAA
GAAGAGTTAAGAAGCCACTGCAGTA[A/
T]TCAAGACAAATGAGTCAAGCCAAAGGCTGAGATGCTGTACAGGAAGGTCTCTAGGGGGACCCTAAATTTAGCT
GGGGGTGGTGGTGCAAGATTCCTACGA A/T 98 0.343 0.001
0.423 0.018 3.5% 198 76.0% 154 74.1% 58 61.3% 80
NA 0 4.5% 66 0.0% 40 4.3% 92
0.0% 42 NA 0 73.7% 76 78.2% 78 74.1% 58
61.3% 80

rs736864 TSCAF 6 0 131221 reverse MIT
GAACATTGAAATATGATGCCCCGAAAATCGTCCAGAAGACAGGTGTGGCCTGTGGGTGCTTGATACATGGTGGTG
GCTTTGTTACTGAATAACAGGGAGG[G/
T]ATGATTGCAAAGGTCACTGTTGCCTTCAAACTCTACATTTTGGTTTGAATTCCTTCTGAAACTTGCTTCTTGC
ACATCTCTGCTCCTGTAGTCCATCCAC G/T HG16 and CeleraR27 positions are

more than 1Mb discrepant based on linear regression extended_map
0.224 0.021 0.184 0.132 87.4% 302 23.8% 260 39.7% 58
66.2% 80 91.5% 106 87.9% 66 86.8% 38
82.6% 92 90.5% 42 18.2% 110 26.3% 76 29.7% 74
39.7% 58 66.2% 80

rs1514346 AB_ASSAYS_ON_DEMAND 6 0 334630 forward MIT

CCGTTTTTTGTTTCAATCGTGACTAAGATATAAAAGTCCTTGGTCACCACTGCCAGCTGCTACCTGTTCACTGCC
TCCCTGACGGGTAATGAGGCCATCC[A/
G]GAGTTTTAGTGATTAAAATGTTTTATTACTTGTATTCACATCATCATTAAGAAAAATAACTTCTAGTGGATCA
ATATGGCAAATGAGTAAACCAGAAGAT A/G extended_map 0.055 NA
NA NA 55.2% 134 86.7% 150 NA 0 NA
0 55.2% 134 NA 0 NA 0 NA 0
NA 0 86.7% 150 NA 0 NA 0 NA
0 NA 0

rs1473037 AB_ASSAYS_ON_DEMAND 6 0 344079 forward
MIT_and_LGD
CTCTGCTGCCAGCTCTGTCATCTTTGGGCAGATTCGATGGGACTTTAGACACTTGCTTTGCTCCCTCTGGGGTCT
GGAGTAGATGTAGACACATCCTGTG[A/
T]GTGAGGTGACCAGGGTGATTTAGGAGCACCATTAGAAAACCTGACATCACTGCTTGTGGTTCTGCTGACCGTT
TCAGCCACTGGCTTGAATGGAGTCATT A/T 332 0.227 0.031
0.183 0.121 77.7% 310 11.7% 266 27.6% 58 48.7% 80
73.2% 112 83.3% 66 75.0% 40 80.4% 92
76.2% 42 15.5% 110 6.4% 78 11.5% 78 27.6% 58
48.7% 80

CV1576069 AB_ASSAYS_ON_DEMAND 6 0 430586 forward LGD

AATAACCATAGAAAAACTTGAAAACCCTGACAAGCCGACTACAAAGAGAATTCCTCTCTGAAAATTTTCAGATGC
GACGGTATGAGGGAGTTGGGTGGGC[C/
T]GCTGACTCTGAGAGAAGTCCCGGTGACCTGAACCTATTCCAGTGAAGCCAGTCAGCAGTGAATGTGGGGCAAG
TGCATGCGGCTGGTCTACAGCTCCCAT C/T extended_map 0.235
0.014 0.217 0.020 11.6% 198 76.6% 154 63.8% 58
61.3% 80 NA 0 13.6% 66 2.5% 40 14.1% 92
17.5% 40 NA 0 77.6% 76 75.6% 78
63.8% 58 61.3% 80

rs4959460 AB_ASSAYS_ON_DEMAND 6 0.1101 781331 forward LGD

AGTATTATTAGGATATGTATTCAGGTAAAAATCTGCACTCCAAGCCCAGCCAGTCCATATTTGGCCCATCAATAT
TGCTGGAGCAAGCTTTTAACATGGC[A/
G]ACATATCCCACTGAAACACATGCATGGACTCTATTTAGGGAAGTTTTGTGAACTTCACCTGGACTCTCCCAGT
TGCTAATAATATTGTCAGCTCATGGTG A/G 1,060 0.122 0.007
0.117 0.022 76.3% 198 26.9% 156 36.2% 58 43.8% 80

```
        NA      0       74.2%   66      72.5%   40      79.3%   92
71.4%   42      NA      0       29.5%   78      24.4%   78      36.2%   58
        43.8%   80

rs238048        AB_ASSAYS_ON_DEMAND     6       2.4162  1173644 forward LGD

TATCTAGGAGATAGTATTCCACAGCACCTGCTCAAAAAGGACAGATTGCCTGGAGCGCTACAGGCTAGCAAGGTA
AACTTACGAGTGGGTGGCCTCCTTC[A/
G]ACAAAGAAACTGCACTTCTGCCCTTCTTAATGCCTGGAGTTAATTCCATCCTCAGATTTCATTTGAACTCACA
ATTCTGGCACTGAGGATCAAAGCCTGC     A/G             extended_map    0.118
0.000   0.136   0.087   97.4%   196     63.5%   156     65.5%   58
92.5%   80      NA      0       100.0%  66      100.0%  40      94.4%   90
        97.5%   40      NA      0       65.4%   78      61.5%   78
65.5%   58      92.5%   80

rs226453        AB_ASSAYS_ON_DEMAND     6       5.0465  1737797 forward MIT

TACTGTTGTCTGCTTGGGACTTCCTTTGCTGTCATCCTGAGAATTCCCTTCTCTCTCTGTGTTGGATCTCCTGCA
ACTATTCCTGAATACTACACCTTCA[C/
T]CTTTCTTGATGTATTCCCTTGTTTTGGTAGAGTATATCTACCAATAGCTTTCTCAGAAAAGTACATGGAGGAT
AATTACATTAAAAATGATATGTGTTTG     C/T             1,997   0.051   0.001
0.057   0.034   74.2%   178     42.5%   146     46.4%   56      21.6%   74
        NA      0       78.1%   64      80.8%   26      69.3%   88
73.7%   38      NA      0       41.7%   72      43.2%   74      46.4%   56
        21.6%   74

rs234950        TSCAF   6       6.0994  2145223 forward MIT
GAGAAGTCTAAGAATTAAGGATTTCTAAAAGATAAAGCCTACAAACCTAAGCTATATATGGTAAATGCTATTCCA
TACCATAGCAAATTAGAAACATTAC[A/
G]GGATTGTATGTTATACATATGAACACTGTGATCTGGAAATCTCTGCCTTGTACAAATAGCTCTAGAATATATT
CATTCATTTATTAAACAAATATTTATT     A/G             1,006   0.169   0.100
0.058   0.019   54.4%   294     1.9%    264     25.9%   58      8.7%    80
        59.4%   106     53.0%   66      71.1%   38      41.7%   84
50.0%   42      0.9%    112     2.6%    76      2.6%    76      25.9%   58
        8.7%    80

rs745216        TSCAF   6       7.4225  2657216 reverse MIT
ACCAGTTAACAGCAGTCCCTCTTCTGCTTTAAAACAAAAGATGAGAAAAATCTACTTCAAATGGCCAGCTCTGAA
TATATCCTGATACATATTTACCTGC[A/
G]TAATGTATAACTTGTATTTTCGTGATTTACATCTTTACAGAAGCACCTTTTGTCAAGGATATCATGGTTGGAG
GAAAGAGCTTTAGTTATTTTGAAAAAC     A/G             1,889   0.059   NA      NA
        NA      21.9%   114     55.6%   108     NA      0       NA      0
        21.9%   114     NA      0       NA      0       NA      0       NA
        0       55.6%   108     NA      0       NA      0       NA      0
        NA      0
```

rs1040861 AB_ASSAYS_ON_DEMAND 6 8.2281 2968955 forward MIT

ATAATAATGCCAAATGGACAGGCGTGTGAATGCCTCCACGGTAACGACCAGAGGCAAACCGGCACATACACGTTT
GTATTTCTCCTTCTTCAGCATGAAG[A/
C]CTTCCTTTTTCTCCCCTCTTTGTGGGATCAGTGGGTTTGGGGTTTTTCTTGGTGGCAGAGCAGCGCCGTCACC
GAGCAGCCGTCGCTGGCCTGATATGCA A/C 1,790 0.071 0.091
0.000 0.033 78.3% 272 41.6% 226 77.5% 40 63.2% 68
77.8% 108 86.2% 58 63.9% 36 80.0% 70
68.4% 38 40.9% 110 48.4% 64 34.6% 52 77.5% 40
63.2% 68

rs7775219 AB_ASSAYS_ON_DEMAND 6 8.8828 3222297 forward LGD

CCTCGGTCTGCATCTATAAAACAGGGATGAGAAAAGCTCCAATGTCCAAGTGCAGTGGAGGTTAAAGCACGAATG
TGACTAGCATGGGGACAGGAAGATC[C/
T]GTGGCTTGATTGGTTCCAGGTGGCATCCATTGAGTGCCGGGAAGGGGCCACCCAAGTCTTTCAGGGTCTAGGG
GGCAGCTGGGTGTAGGAGGAACCAGAG C/T 81 0.351 0.009
0.391 0.075 8.7% 196 87.2% 156 79.3% 58 58.8% 80
NA 0 4.5% 66 5.3% 38 13.0% 92
11.9% 42 NA 0 92.3% 78 82.1% 78 79.3% 58
58.8% 80

rs233479 AB_ASSAYS_ON_DEMAND 6 12.4862 4734790 forward LGD

GCCGGTTTTATTTCTGTTTCCCTGGCCCTGGCAGCCTCCCCGCCCTAGGCATCTCCCCCACTCCCAGTGGGCAGG
AACTCCAGTGATTCAAACTTAAATG[C/
G]CTGCTACCCAGTACAGTCCTTGAGGAGCTCTGCAGTGCTCTGTGAGCTTTTGAGGGGCCATGTGCATCAGAAA
GCACCTGCCACTAAAAATTGTTGTAGA C/G extended_map 0.151
0.003 0.261 0.022 16.7% 198 69.9% 156 75.9% 58
85.0% 80 NA 0 22.7% 66 12.5% 40 14.1% 92
11.9% 42 NA 0 69.2% 78 70.5% 78
75.9% 58 85.0% 80

rs884776 AB_ASSAYS_ON_DEMAND 6 12.9012 4892090 forward MIT

TCCCAGTCCCAGCCAGCACTCCAGGCATGCCCTTCCCTGCTGTGGATGGCCCCACCGGCTGTGCTGCCCTCCTCC
CTCTGGCACTGACCACAGGCTCCAT[A/
G]TGCATCTTGTCCCACCCCTCCCTACTCAGCCCTGGCCTTTCAGCCTCACTCAGCAGGGCCCCCACCTCCCTCG
TGCTTCCAGTAGCCATCCCAGCAGCCA A/G extended_map 0.114
0.004 0.120 0.011 19.2% 182 66.0% 150 58.9% 56
77.5% 80 NA 0 14.5% 62 13.3% 30 24.4% 90
12.5% 40 NA 0 66.2% 74 65.8% 76
58.9% 56 77.5% 80

rs2024998 AB_ASSAYS_ON_DEMAND 6 13.8716 5259907 forward MIT

TCCAGGCAGAGGTGATGTCTTGTTCCTCCTCAGTTTGAGTGGGTGTTTTTTTCTCTAATGATTAATCATCTTATA
GCTCATTTGCATGAGACATCTGTGA[C/
T]CTTGATTAAGGGGAATTCTCCTCACACTTGTGACCCATGCAGGTCCTCGTCGATATGGGGTTACCACTGGCTC
AGTGGCCTCCAGAGAACTTCAGATCTC C/T 1,660 0.139 0.002
0.191 0.001 0.0% 308 29.8% 248 34.6% 52 33.3% 72
0.0% 114 0.0% 66 0.0% 38 0.0% 90
0.0% 38 34.5% 110 28.4% 74 23.4% 64 34.6% 52
33.3% 72
rs3024354 SEATTLE_SNPS 6 15.8837 6237429 reverse MIT
TCCAAATGAGATAAAGAATGCCTGGAATTCCAGAGGGAAAAAATCGAGTGTGGAAAATGCTAATGGAGGTAGTAG
CTTCATTGATAACTCATTGGCACTG[G/
T]TGCTGTGCAGAGGTGCTGTATGCCTCCCATTTAATTGTTCAAGCAGCCCTCTGGGCATTGGACTATGGCCATC
TCCATTTTTCCCATGAGATAATGGTTG G/T 49 0.379 0.083
0.209 0.012 4.3% 188 82.2% 152 50.0% 58 71.3% 80
NA 0 1.6% 64 5.9% 34 5.6% 90
7.5% 40 NA 0 78.9% 76 85.5% 76 50.0% 58
71.3% 80
rs1886883 TSCAF 6 18.1032 6904105 forward MIT
ACACTGCTCTCTCTTTAAGGCATCACACTTTGGAGCTCCTCTCTGCACCTTATCCTGGTTACAGGACAGGAAATC
TACAACTTGTCCTCCTAATTTCAAT[C/
G]TAAGTTAGCCATTTGTGACCAAGAACCCAGAATCCTCTAGAAACATGTTAACTGCTGACAGCCTGTATCACAA
AAGTAGCTTAAGCCCAGAATAGAGCTG C/G extended_map 0.099 NA
NA NA 61.3% 106 16.4% 110 NA 0 NA
0 61.3% 106 NA 0 NA 0 NA 0
NA 0 16.4% 110 NA 0 NA 0 NA
0 NA 0
rs2148088 AB_ASSAYS_ON_DEMAND 6 18.3117 7006911 reverse MIT

AAAGCTCTAGATTGCCTATGCTGGGTATGGTTCTACCATTGAGAACTCTTCCACTAATTCAGTCCTATCACAAAA
ACTTGGTTTTTAAAAGATGAGCCCT[A/
C]CAAATACAGAGAAATGTGCATCATGAATATTCTTGTTTAAAAGTGTTCCATTTTAGGCCGGGCACGGTGGCTC
ACACCTGTAATCCAAGCAGCACTTTGG A/C 1,382 0.145 0.208
0.001 0.478 36.5% 192 89.5% 152 38.9% 54 11.5% 78
NA 0 34.4% 64 42.1% 38 35.6% 90
37.5% 40 NA 0 86.5% 74 92.3% 78 38.9% 54
11.5% 78
rs879294 AB_ASSAYS_ON_DEMAND 6 18.6487 7286835 forward MIT

TAGATGTCACCCAGAAGATTCTGAGGGTTGATTAGCACAAGGCCTCGGACCTTTTTCCTCTCAGGCCTAGCTTTA
AGCAGGGCTTCCTCTAACTTGTCCA[C/
T]AGCAAGGTGGAACAGATGGGTGTTTGCAACAGTGATCTCACTCTCCAGGTGGACAGGAATCAACTCAACCTTC
ACGTACAGGCAGGAGCTAAAGTCAAAG C/T 1,130 0.166 0.000
0.227 0.002 86.8% 310 32.6% 264 32.8% 58 26.9% 78
92.1% 114 80.3% 66 85.0% 40 85.6% 90
95.0% 40 30.6% 108 26.9% 78 41.0% 78 32.8% 58
26.9% 78

rs369086 AB_ASSAYS_ON_DEMAND 6 19.9034 7843874 forward LGD

CTGATACAAGAAGGTAGTCTTAGGTATTTGTTGAAATTGAAATTACAAAGACTTCAGATGCTCTTCCTAGCTCAT
CAGGATCCTACAGTGTAGGAACACG[A/
G]GTGTTTTTCCAGTCCCTCTCCAACACAGCAGCATGACCCACCAGGTCTACCCGGCATCCAGGGACCTGAGCAC
TCGGCATTAATCAGAAGGCACCACCCA A/G 1,691 0.111 0.140
0.001 0.099 84.2% 196 39.3% 150 82.8% 58 76.2% 80
NA 0 78.8% 66 95.0% 40 83.3% 90
85.7% 42 NA 0 42.3% 78 36.1% 72 82.8% 58
76.2% 80
rs998645 AB_ASSAYS_ON_DEMAND 6 22.2981 9399550 forward MIT

TAGGAAAGTTATTTTCTTACTTTTCAGAAAAAAAAATTCACTCCCAGTAGCTATGTATCTATTTATACATACAAC
ATGATTAGAATATTTGAGAGGAATA[A/
G]AAGTCTTCTTTTCTGCTTTTCCCCCCTTCCCTCAATAAATTCAGCTCCTTACACAACAGCTGCTTTTTATCTG
ATGATTTTTAGTTTATTCGTGTGTAGA A/G 1,027 0.13 NA NA
NA 32.4% 108 83.9% 112 NA 0 NA 0
32.4% 108 NA 0 NA 0 NA 0 NA
0 83.9% 112 NA 0 NA 0 NA 0
NA 0
rs561325 AB_ASSAYS_ON_DEMAND 6 25.4602 10866309
forward LGD
CAAAAAAAAAAAAAAAGATATTTGCTACTGATTTACCCTAACTGATACTGGTTGAGTTTAGAGTATAATTCAGAC
ACTTTATGTATTTGCATAAGCCCCT[G/
T]GATGGTGGTCCTAGTTTTCCATCCTTTTTTATAGGACTCTGGACAATTAAGGGCTCTTGTGTTGCAGTGGTAG
AGGCATCAGAAGGCCACAGATCATCCA G/T 314 0.229 0.008
0.239 0.021 86.7% 196 21.8% 156 31.0% 58 37.2% 78
NA 0 87.5% 64 92.5% 40 83.7% 92
85.7% 42 NA 0 26.9% 78 16.7% 78 31.0% 58
37.2% 78
CV2497910 AB_ASSAYS_ON_DEMAND 6 27.9234 11921499
forward LGD
AAAGTTGGGAAAGACAGAAGGTGAAAAGAATCCAGACATATTTTTATCTAAATAATGACATCTTAAAGACAGGCA
CTGAATGGCCTATGCAGCCCTCACT[A/
G]GTAGAGGATGTGCAAAGAACAGCAGAATGAAGTCGGAGGCAGCTTTCTTTCCTGTTCCCCTTGGGGACTTTAC
AGCTGTCTCCTCTCCAGCCCTTCCATA A/G 1,165 0.178 0.012
0.193 0.009 64.4% 194 6.5% 154 13.8% 58 1.3% 80
NA 0 54.5% 66 68.4% 38 70.0% 90
69.0% 42 NA 0 7.7% 78 5.3% 76 13.8% 58
1.3% 80
rs209816 AB_ASSAYS_ON_DEMAND 6 28.2444 12059017
reverse MIT
ATACAACTTCTTTAGCAATATTTCCAATAAGCAGCCAGAACTTGTGATTTAAAATATTTCTGACCCAGCTTCTAC
ATGTCCATACACAATTCACAGTTCA[C/
T]AGTGTAAGGACCAAACTGTGATGCAGGCTGAGTTGGCTTTTGGAACCATGAAGCTCCAAGCTTTCTGACTTTT
GCTTTTGTAGTGTCTCCCCTCAGCTTG C/T extended_map 0.186

0.023 0.425 0.023 19.1% 194 79.2% 144 92.9% 56
92.3% 78 NA 0 12.5% 64 15.8% 38 25.0% 92
17.5% 40 NA 0 80.6% 72 77.8% 72
92.9% 56 92.3% 78
rs209814 AB_ASSAYS_ON_DEMAND 6 28.2463 12059847
forward LGD
TTCCTAGGGCAAAATCTTTTTCCCTTGAAGACTGGAAATATTATCCATGTTGTCCTCCGGAATATTTTCAATGAC
TTGTGCCCTGCCAGCTCTAGCTTTT[C/
G]AAGGGTCTACACTCATCATCAACAGGTAGACTGGTTTTTACAAATGTTTTTACCATAACTTCATTTCCTGTTT
CAAATGTGAAATGGATCAAAAATGAGA C/G 729 0.228 0.019
0.476 0.013 15.3% 196 80.9% 152 93.1% 58 91.0% 78
NA 0 10.6% 66 10.5% 38 20.7% 92
16.7% 42 NA 0 82.9% 76 78.9% 76 93.1% 58
91.0% 78
CV11319114 AB_ASSAYS_ON_DEMAND 6 29.575 12629047
forward LGD
CTGACATACAAAGCTTTTGGATTTTTTCTTATGCTTTAGACTGGCCTAGCCATAGATTTAAAAATTTTTCTATAT
TGTCTCTCCATAAGCCATTGGGAAT[G/
T]CATGTTGTATATGATGTGAAGTAGGAGGGTCCTATCTTTTTTATCATTCATAGGCAATGGTCAAAGCTCTTAT
ATTGCATAGTTTTCATTTCCCCAATTA G/T 1,675 0.12 0.056
0.029 0.007 7.6% 198 48.7% 156 21.2% 52 38.8% 80
NA 0 7.6% 66 2.5% 40 9.8% 92
2.4% 42 NA 0 48.7% 78 48.7% 78 21.2% 52
38.8% 80
rs579240 TSCAF 6 30.8216 13467310 reverse MIT
TTCTCCCCGCCAGGCACAGGAGCCAGCAGCTGGAGCGTGCTCTGAGTTTCAGGGGACCCCCCACCCAAACTGACT
GGGGCTTCTGGGACTTCTCATAGGA[A/
G]GAGTCAAGACCTCCTGCGCTTCTTTAAAAGGTGATGGGCTCAGTGTTCCCAGTGGCATCTGGAGGTGAAGCCG
GTACTGTCTCAGGAGTGGAAGGCAATG A/G 288 0.261 0.000
0.423 0.008 68.6% 318 1.1% 282 0.0% 56 3.9% 76
69.9% 136 70.0% 60 75.0% 36 62.8% 86
57.9% 38 0.6% 154 1.6% 64 1.6% 64 0.0% 56
3.9% 76
rs860748 AB_ASSAYS_ON_DEMAND 6 33.1691 14813531
forward LGD
GCCAGACAGAAACAGGCAACCCAACCAACATTCATGGCTACTGACCAACTACTTTTTTGAAATTTCCATGGATTC
TGAATGTTTCTGAGTTGGGGAGGGT[A/
G]AAGAGGATGTGGAAGAGACAAAGGGAGTATATTCCTCACTCCCTGACATAAACCATTACCAGAAAATTAGTGT
TTGGAATTATACCTCTGACAATGAGTC A/G extended_map 0.326
0.014 0.597 0.096 88.9% 198 12.2% 156 3.4% 58
44.9% 78 NA 0 89.4% 66 95.0% 40 85.9% 92
97.6% 42 NA 0 14.1% 78 10.3% 78
3.4% 58 44.9% 78
rs734129 TSCAF 6 34.7769 15696990 reverse MIT
GAGGTCATGACACTTGATCTGAATGACGAGTACTCACTGGGCTAGAAAGGATAACAAAGACATTCCAGGAAGAGG
AAAGAACAGTTGTAAAGATGCATAT[A/

G]TGTTTATTTCAAGAATACAAGTTAAAATTTAATTTCTTATTTATTGAAGGAGCCACAAATAATTTGCCTGGCT
GAAGCATATGGTGTGTGGGGTGAAGTG A/G extended_map 0.065
0.011 0.051 0.001 42.5% 294 9.5% 262 17.2% 58
11.3% 80 47.0% 100 40.9% 66 36.8% 38 41.1% 90
40.5% 42 9.8% 112 9.2% 76 9.5% 74
17.2% 58 11.3% 80
rs1013050 AB_ASSAYS_ON_DEMAND 6 34.9384 15994056
forward MIT
CCTGCCTGAGAATACTTTCCACTGCCTGTCTTCCCTACTCTGGCTCACACTCATCATTCTATTTTTGGCTTAGAT
GTGACATCTACCAGGTTATAACAGG[A/
G]ATGCACTGGCTGCCTCCACAGCCCTCTTACTTCGCCTTTTAAATTATGCAACACTTGGTATATCAAAATAGTA
TGTAATATACACGTACGTTATGATGCA A/G 1,226 0.133 0.037
0.074 0.110 65.3% 262 14.0% 228 32.5% 40 50.0% 62
74.1% 112 61.1% 54 70.0% 30 51.5% 66
73.5% 34 17.0% 112 8.3% 60 14.3% 56 32.5% 40
50.0% 62
rs2237172 AB_ASSAYS_ON_DEMAND 6 36.7785 16709566
forward LGD
TAAGTTATGTGACACAGAGCATTTAGCCTACATCAAAAGCTAAAACTGAAAAATGAAATTCTTATTTAAGTATGT
TGCTATCTTCACTCTAATGAGATAC[A/
G]TGGAACAAATTACTGGGGCTAGAATGTATTATAACAATAGTAAGGAAGAAGGTTCCTGCTGGATACTTGGTAA
GAGGTGGGTGGGGTCCAGGATTTCCAG A/G 735 0.135 0.003
0.253 0.040 74.0% 196 21.7% 152 15.5% 58 43.8% 80
NA 0 81.8% 66 67.5% 40 71.1% 90
78.6% 42 NA 0 24.4% 78 18.9% 74 15.5% 58
43.8% 80
rs1144695 TSCAF 6 37.2 16850744 reverse MIT
GAGGGAGTGCATTTGTGGTTGATGGTGTGAGCGACCATATGTTGGACCATATGTCAGAACCTGTTAAGAGATTCT
GACAGGTATGGAAATGCCTCCCATT[A/
G]GAAACTGAAGCCCTGGGTCCTTTGACCGCTGCAGCACCCCCAGAGGAGAGTACCCTAAGGCCCTTTTAACCTT
GCCCTGCCCTGGCAGGTTCCAAGGGGA A/G 1,569 0.087 0.100
0.002 0.232 25.7% 304 67.3% 254 29.6% 54 12.5% 80
17.9% 112 23.4% 64 33.3% 36 33.7% 92
23.8% 42 60.9% 110 72.1% 68 72.4% 76 29.6% 54
12.5% 80
rs752547 AB_ASSAYS_ON_DEMAND 6 38.4328 17564805
forward LGD
AAACTCTAGGGACTTTTCCTTTAGGGTAGAGTAGAGGACCCTAAACAACAAATCTGAAAACACAGTGTCTCTAAT
TATGAAAAACAGGGCATCAGTAGAC[C/
T]AACTGGGGAGGTATGTGAGGATGGCATTGGCAGTAGGGCCTGCAAATTGCACTGAGTACACAGATGCCCATTC
TTCCATCTTTAGAGGAAGAGGGGCCCC C/T 1,100 0.14 0.002
0.219 0.009 43.9% 198 0.0% 154 0.0% 58 2.5% 80
NA 0 40.9% 66 50.0% 40 43.5% 92
54.8% 42 NA 0 0.0% 76 0.0% 78 0.0% 58
2.5% 80
rs910043 AB_ASSAYS_ON_DEMAND 6 38.4333 17565036

forward MIT
GGCTGATGCAGTTTCAGAAGGATCTGGAAATGCCTTTAGCACAAGCATCCAGGGTGGATGCTTTTGCCATCTTCC
AAGTATTGCCTGTGGCCTTTCCCCC[A/
C]GTTGTGCCTGTTCATTTTGCCATCCACATGGGACTTTGCAGCCTGTAGTTCTTCCAGTGAAACAATGCAAAGC
TTTGATGAGTATCCAGAAATCAACTGG A/C extended_map 0.147
0.002 0.230 0.008 54.4% 182 100.0% 150 100.0% 56
97.5% 80 NA 0 56.2% 64 46.4% 28 55.6% 90
47.4% 38 NA 0 100.0% 74 100.0% 76
100.0% 56 97.5% 80
rs1334772 TSCAF 6 40.7936 19070745 forward MIT
GAGAAGTGTATATTTTTCAGACTCAATGGAATTTTTACTGCTTAACAATTCCACAGCCAATTTGTAAAGCTGTCT
GGGAGTGTTCAGTCTGTGTGAGGCA[A/
G]ACACAAGAAAGGGGAGGGAGACAATTAGGAGGTAAAAGATGCTTCAGACAAGGAATGGGCTGCAAGTGACAAC
TGAATGAACCCCCCTCTCTCACTTCTG A/G extended_map 0.106 NA
NA NA 92.0% 112 52.7% 110 NA 0 NA
0 92.0% 112 NA 0 NA 0 NA 0
NA 0 52.7% 110 NA 0 NA 0 NA
0 NA 0
rs1322528 TSCAF 6 40.9099 19200789 reverse MIT
AATACCAAAAGATGGGAGCTATTTGTGAATGTTGGAACTAAGAAGGCCTAACAGATGCAGATGGAGTCATAGTAT
GAGCTCAAGTACAAAGATGGAAACA[C/
G]CATGGCACATTGGAGACAGACTCATCCACCATATCCAAATTACTTAGTGGTTCATGAACAACTGTGAGTGGAT
AATCAAGAATCACCAGATACATGTGTA C/G 1,427 0.096 0.000
0.133 0.005 19.2% 308 61.6% 250 61.1% 54 69.7% 76
14.9% 114 18.2% 66 22.5% 40 23.9% 88
21.1% 38 65.1% 106 51.3% 76 67.6% 68 61.1% 54
69.7% 76
rs725316 AB_ASSAYS_ON_DEMAND 6 41.5545 19921598
reverse MIT
ACAACTGAGTTGACATTTCAAAATAGATTGAATATTCATATTCTGCTAGACATAATCACAAGAGGAGAGTTAGTA
TTATTATTGAGGTGTGTAAAAGATG[C/
T]TAGAGGAGCATAGAGGAGGGAAAAGTAAATCTATTGCTCTGGAAAGAAAGAAGGGAAAGAAAAAGGGGATCAG
CAAAGAGTATAAGGCTTTCTTATAGGT C/T 1,945 0.052 NA NA
NA 23.2% 112 0.9% 108 NA 0 NA 0
23.2% 112 NA 0 NA 0 NA 0 NA
0 0.9% 108 NA 0 NA 0 NA 0
NA 0
rs490655 AB_ASSAYS_ON_DEMAND 6 41.8297 20150482
reverse MIT
TGCTATTTGTACAAATAAACCTGAGGCAGGATTCGTTTTAAAAAAAGTTATATTCCAATAATGTTGCCCTCTTAT
GCAACCCTCCTCCTCAAAACGGACA[C/
T]TTACCTAGCTGCCTCACATAAATGAGCCTTTTTTCTTCTTCTTCAATTTCTTGTCTGCCTGAAATACTTTTAT
TAACTGCCACTCCTCCTAAATTCTGGT C/T 646 0.152 0.002
0.195 0.000 72.4% 196 17.1% 152 20.4% 54 17.5% 80
NA 0 79.7% 64 82.5% 40 63.0% 92
70.0% 40 NA 0 18.9% 74 15.4% 78 20.4% 54

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        17.5%   80
rs2274305       AB_ASSAYS_ON_DEMAND     6       47.93   24399182
forward LGD
CCAATGCTATTTCAAGTGGTAACTAAAGCATGAGGAGTGGTAAGGAGTAAGACTTACCCAAAAGGCCTTCTCATC
GTTGACTTGTCAAAAAGTAACTCAC[C/
T]GTAAGGCAGTTTCTTAAACTTATCTCTGCCAACAGCCACATAAAACTGCCCATTCTCCAACTCTGCTCCACTC
TCAACAAGTTTTCCTTCTAAAGTATAA     C/T             578     0.239   0.081
0.632   0.028   96.0%   198     37.7%   154     8.6%    58      19.2%   78
        NA      0       95.5%   66      100.0%  40      94.6%   92
100.0%  42      NA      0       34.2%   76      41.0%   78      8.6%    58
        19.2%   78
rs303016        AB_ASSAYS_ON_DEMAND     6       49.5854 25247443
forward LGD
AATTCCTAGTAATTGTGTTCCCAATGGACTTGAAATTATTCCAAAAATATGTTCTAAATGTATTTGACAGGAAGA
AGCCATTCTAAATTTCATGACTTCT[C/
T]TTTTGACTTTGTTCTTACGAGTACAGATATCTGACACCAAGCTAACATAAGCACTGAGGCAATTCCTGGAATA
ATTAGTCTAAGAGTTTAAAAGGCAAAC     C/T             234     0.271   0.029
0.572   0.000   87.2%   196     16.7%   156     3.4%    58      17.5%   80
        NA      0       90.9%   66      92.5%   40      82.2%   90
95.2%   42      NA      0       20.5%   78      12.8%   78      3.4%    58
        17.5%   80
CV2481957       AB_ASSAYS_ON_DEMAND     6       50.89   28379177
forward LGD
GAGATGTCTAGGCTTAAGGCCATCAGTGATAGGTAACTGAAGGAGAAACACTTGGAAAAGTGAATGATACGGACT
GTGACTCCTTAGTGTTGAAGTCTAG[C/
T]ATTGGTGGATTAGTCTGGAGGGTAGAGAAGACAGGCTCCACCTCATTTCTGTGAGTTGTAGCCACAACAGCTC
TTTGCCTTTCTTTCATATCCTAATATT     C/T             extended_map    0.229
0.021   0.174   0.034   93.9%   198     34.4%   154     51.7%   58
56.2%   80      NA      0       100.0%  66      100.0%  40      87.0%   92
        97.6%   42      NA      0       31.6%   76      37.2%   78
51.7%   58      56.2%   80
rs451774        TSCAF   6       50.89   28610529        forward MIT
CATCCATGACACCTCCCCCTACCAGCCATTCTCCTGTGGGAGCAAGAACATTGCTTCAAAAGAAGAGAGGGCATC
TCCATGCTTGTGGGACCCAAAACCT[A/
G]TCTCTGGCCCTACAAAAGTTTTCCTAATTGTCTGATCTTTAGTGCATTCAGGTTATGGCACCTGGAGAGGAAT
GCCCTTTATCTTTTGAAGGATGGGATT     A/G             extended_map    0.111   NA
        NA      NA      77.4%   106     30.0%   110     NA      0       NA
        0       77.4%   106     NA      0       NA      0       NA      0
        NA      0       30.0%   110     NA      0       NA      0       NA
        0       NA      0
rs2249459       RANDOM  6       51.2783 30994227        forward MIT
TCACAGTCCTGCCGATGCTGAGATGGGGGCCCGACATGGCTTGAGCCCCTTGAATGTCATTGCGGAGGATGGGAC
CATGACCTCNCTCTGCGGGGACTGG[C/
T]TGCAGGTGGTACCACCCTATGTTACCCCATCCTTTGGGGGCTCTCTGTCCCNCTAATCCTCCTCCTAGTTTCT
TATTTCTCTAGAGGCCTTCAGTCTTTA     C/T             2,068   0.071   0.037
0.014   0.045   6.2%    324     34.3%   300     13.8%   58      12.5%   80
```

7.0% 128 1.5% 66 5.3% 38 8.7% 92
4.8% 42 33.1% 148 32.9% 76 38.2% 76 13.8% 58
12.5% 80
G707a27 RANDOM 6 52.6235 33231068 reverse MIT
TGGGAGTGGGTGGATCTCTGCTCTGTTATGCCTCCCACAGGTGGAGGAAGTCTGTCTCTGAGGCTGCCCTGCCAC
CCTCATAGAGCGCTGCAGATTGGGG[A/
G]CGGTGATGCAGCCACAGGGGCTCTGATTCCCTGCCTCCCCACTGTGTTCATCTCATTCCTCTCCACATATGAG
GCCTGGTGTCATGGCAGGTGGGTGTTC A/G 2,149 0.055 NA NA
NA 100.0% 122 84.7% 150 NA 0 NA 0
100.0% 122 NA 0 NA 0 NA 0 NA
0 84.7% 150 NA 0 NA 0 NA 0
NA 0
rs747694 TSCAF 6 52.75 33783345 forward MIT
ATGCAAGTAAACACAGCTGCTCCTGGCCAATTTGTCTGGCTAGTCTGGGAGACTTGTCCCATCTCATACAGTCCA
GCCTGGTCCCCTCTGTGGTCAGAAC[A/
G]AGGCTGCCTTCCCAGAGATAGCCTGCAGGGGGCGGGGTGTGTGCTGCAAGGCAGTGGGAGGGCTGGGGCTGTG
GCAGATCAGAGTCACTCAGATTGGAAA A/G 1,975 0.079 0.025
0.033 0.069 15.1% 332 51.6% 310 32.8% 58 81.2% 80
10.3% 136 14.1% 64 15.0% 40 22.8% 92
7.1% 42 50.0% 156 51.3% 78 55.3% 76 32.8% 58
81.2% 80
rs914815 TSCAF 6 53.8969 34168720 forward MIT
AGGTCCAGGACCACATGGGGTGTTTGGGACTGTCTGTGGGTGCGGGCTGACCCTGGCACAGCACTCTCCCAAGTG
TCACGCTCTGTGTTAAAGGCTAGGC[C/
T]CTTTCCACAGCCACATTCAGCCGTATTCAGCCTGGGCTGTGACATTCCCCACTGCGTGGGCACTTGACCTCTC
CAGCCCAGGTTTCCTCATTGGTAAGGA C/T 1,895 0.09 0.002
0.095 0.001 88.7% 328 51.7% 294 57.1% 56 47.5% 80
90.0% 130 87.9% 66 85.0% 40 89.1% 92
85.7% 42 55.0% 140 50.0% 78 47.4% 76 57.1% 56
47.5% 80
rs206941 AB_ASSAYS_ON_DEMAND 6 54.2651 34307032
reverse MIT
TTTGATCTCAGATGGCTGTTACGTTTACATCTTTGGAACTATAAACTGTGGTGGTACAAAGGTTGGTTCATGGTT
TGATTGTTTACTTCTGAAGGAAAGT[A/
G]TATTCTAGAAAGGAGAACACTAATTTCCATTACAAATTGGCAGACAGATAAAATTTATTTGCCAACATTCTCA
CTTTAATGTTAGTGTTTGCCTTGCCGC A/G 2,089 0.049 NA NA
NA 51.4% 70 82.6% 86 NA 0 NA 0
51.4% 70 NA 0 NA 0 NA 0 NA
0 82.6% 86 NA 0 NA 0 NA 0
NA 0
rs912716 AB_ASSAYS_ON_DEMAND 6 54.8426 34762616
forward MIT
TTGCAGCTGTACATACCATTTTGGGCCCAGGATGCGTTTTTATACTTCTTCTTTGACAACAGTACTCCCCCAAGT
TTTGGGTATTCCTCCTTCTCTCCCT[A/
G]AGGTTTAAGTGGGACTGGCAATCACAGTTTTCTACTCATCCCCAACCAAGGAGGATTCTTGATGTATAAGTGT
GCCCATTTAGGTCCTTCCCTGGCTTCT A/G 1,795 0.081 NA NA

NA 74.6% 134 34.0% 144 NA 0 NA 0
74.6% 134 NA 0 NA 0 NA 0 NA
0 34.0% 144 NA 0 NA 0 NA 0
NA 0
rs7753949 AB_ASSAYS_ON_DEMAND 6 54.9144 34929249
forward LGD
GAGTAAGATATTTCTAAGGGCAAAAAGGAAACAGTTTTGAAAATTCTTAGCTAATACTGAGTTGGCCAGGATGGG
TGAAACAGAGTTAAAGGAATGTGTT[A/
G]GCCCCTTTTCTTGTGCACCTAGAAATCCTCCAGGGCCCAGTAACCATTTTAGGTTTATTTTATTAAAAAACAG
GCCTTTGGGCTTCCTGTGTTATTGATT A/G 125 0.326 0.011
0.543 0.191 3.5% 198 73.7% 156 84.5% 58 22.5% 80
NA 0 0.0% 66 2.5% 40 6.5% 92
4.8% 42 NA 0 73.1% 78 74.4% 78 84.5% 58
22.5% 80
rs968828 TSCAF 6 55.0376 35215468 reverse MIT
AATATTTAACTTACTGAATTATTTACTTTTGTTTTTCCCTTCTCCCCAACTAGAACGTAAGCTCCATCAGAGCAG
GGACCATGTCTGGCTTGTTCACTAT[C/
T]GTGTCCTCATCATCTCCTGTACTGCCTGCCACATGGTAGGTCCTCGGTGATTACCTGTGGAATGAATGAATAA
GGGTGGCAGGAGTTCAGAGAGGGAGAG C/T 1,091 0.169 0.015
0.369 0.025 75.3% 304 17.6% 306 6.9% 58 33.8% 80
74.5% 110 83.3% 66 80.6% 36 68.5% 92
83.3% 42 15.8% 152 20.5% 78 18.4% 76 6.9% 58
33.8% 80
rs1108709 TSCAF 6 55.0392 35219049 reverse MIT
AGCAAAGTAGCAGCATGGCGGGCTCACTTCATGAATTAGCTTTATGTGTGCTCCAGGATTTCTTCAATGTGTTGA
TTTTTAGTGAATTTATTTCATCATG[A/
G]ATGCAGGAAGAGAACAGAAAGAAAAACGGGGAAAAGAGGACATAAAAAGAAGTGGGCTGGGCATGGTGGCTCA
CACCTGTAATCCCAGCACTCTGGGAGC A/G extended_map 0.182 NA
NA NA 76.5% 102 16.1% 112 NA 0 NA
0 76.5% 102 NA 0 NA 0 NA 0
NA 0 16.1% 112 NA 0 NA 0 NA
0 NA 0
CV2489291 AB_ASSAYS_ON_DEMAND 6 55.1103 35384322
forward LGD
CACTGGACATAATCATGGTACTGTTTTGAAACCTGCTTTAAACATTTATATCCTAGCAATTTGAATATAGTTTTC
AAGAATGCACTTTTAATAGCAGAGC[A/
G]GTATTCATTCTTATGAGAATATCTAATCTTATTTAATCAGTCCTGCCAACAGACGTTTAGGTTATTTCTCATC
TTTTGCTCTTATAGCCAGTGCTCTCTG A/G extended_map 0.254
0.000 0.407 0.005 25.8% 198 95.0% 140 96.4% 56
98.7% 78 NA 0 15.2% 66 25.0% 40 33.7% 92
20.0% 40 NA 0 95.7% 70 94.3% 70
96.4% 56 98.7% 78
rs195429 TSCAF 6 56.6939 37401290 forward MIT
CAGGGCTGACTTTGACTGCTGGGCTACAATAGCTTTAAATACACCCTGAGGAGTCCAATGCAGGAGAGTCAGTGA
CTCCAATGAGCCCTGCACCATGTTG[C/
T]ACTGAAAGTGAAAATCAGTGGTTGCTGGCCATGGTGGGATCCCATCGCTGCTGGAGGCTGCAGCCCAGCTATC

AGCCCACCAGCCTAGCTTGTCCATCAG C/T 800 0.218 0.067
0.121 0.000 71.6% 328 7.4% 310 30.4% 56 6.2% 80
73.8% 130 69.7% 66 77.5% 40 67.4% 92
57.1% 42 9.1% 154 6.4% 78 5.1% 78 30.4% 56
6.2% 80
rs909998 TSCAF 6 57.181 38187513 reverse MIT
AGAGGGTGGGCTGGTGGGGGTGCTGGAGGAGCTGCCCGGCCCTGCATCTGCAACCCTCCAGTCCCCTGCCCACAG
AGCACGCAGAGCCCTCCTGTGCTCC[A/
G]GGAACGAGATAGCAGCTTGGCAGCTCGGCCTCGCATCTGAAAAGGAATACGCTGCAAAGCCTCGGCCCTAGAC
CCACATCTGCAGCTCCCTGGCCTGTGG A/G 2,152 0.04 NA NA
NA 72.2% 90 43.8% 96 NA 0 NA 0
72.2% 90 NA 0 NA 0 NA 0 NA
0 43.8% 96 NA 0 NA 0 NA 0
NA 0
rs752556 TSCAF 6 60.2179 40424848 forward MIT
GGAGGGTGGGGGAGCAGAGCCGTCCCCACCCACCAGCCATCCTCATGTCCAGGCTGGAGGATGAGGCTCTAACTC
CCACTCTGTCATGACTTGTTCAGCC[A/
T]TGAGCAATTCACTTTCCTTCTCTGTGCTTTTAACATTCTAGAATTTCACAAGAACATCACTGGAAGAGGGGTG
ATGGGAGCACGGGGGAGGCAGGAGGAA A/T 694 0.157 0.200
0.005 0.052 53.5% 310 2.7% 298 44.6% 56 18.1% 72
57.0% 128 48.3% 60 50.0% 40 53.7% 82
63.2% 38 4.5% 156 1.4% 70 0.0% 72 44.6% 56
18.1% 72
rs736794 AB_ASSAYS_ON_DEMAND 6 61.315 41044688
reverse MIT
TGCATAGTAGGTGCTCAATTAACATTTAACAGTGAATCCATTAACATGGAAGTTATTTGGTACATGTTGAGTGCT
TGCCATGCTATGCCCTGAGGAGGAG[A/
C]AAGACAGATTATAGGATAATGTGTGTAAAGCATGTAGCTGGGTGCCTGACACTTGTTAATTCAATAAATGTTA
TCAATAATGGTGACAGTGCAGTCATGA A/C 1,387 0.118 0.025
0.065 0.000 14.8% 330 60.3% 290 41.4% 58 61.5% 78
11.2% 134 16.7% 66 13.2% 38 19.6% 92
9.5% 42 63.2% 136 53.8% 78 61.8% 76 41.4% 58
61.5% 78
CV2504280 AB_ASSAYS_ON_DEMAND 6 61.422 41105172
forward LGD
TCTGTGACCAACAGTGATTCCATGTGTAGCAGTTTCTATAGTGGTTGCTAATCTAGGGATTGTGTAAGCTTTTAG
GGAAGAAGTGTTTCTAAACAGAAGA[A/
T]TAGAAATAGGGAGTTCATTGGTAAAGAGAGAAATAGATCAAAAATCAAGTTGGCTTTAGAGTGCTATTGCTGC
TTATGTTTTTTTCTGGGTCATTCCATT A/T extended_map 0.092
0.033 0.290 0.055 57.6% 198 14.9% 154 1.7% 58
0.0% 80 NA 0 56.1% 66 62.5% 40 56.5% 92
45.2% 42 NA 0 16.7% 78 13.2% 76
1.7% 58 0.0% 80
rs3804278 AB_ASSAYS_ON_DEMAND 6 61.7725 41352309
forward LGD
TGTGTTGATTTTTTTTAAAATAATACTCACAGTAGAAGCCCAGAAAACTGGTCTCACGGAGGTATAATGTCAGAA

ATAGAAGAAATTTTAAAGCAATTCC[G/
T]ACAAGCTCAACAGTTTTATATTTAACTTTTACAAAAGGAAGCAAGCGATGCTGTAATTTCAAAATGCATCTTC
AATCCTTTATCAGTAGCCAGTTCCAAA G/T extended_map 0.195
0.056 0.502 0.000 4.5% 198 56.4% 156 82.8% 58
55.0% 80 NA 0 6.1% 66 2.5% 40 4.3% 92
0.0% 42 NA 0 56.4% 78 56.4% 78
82.8% 58 55.0% 80
rs749657 TSCAF 6 62.5059 41546772 forward MIT
GGAACAGACTGCTGCCGTGGGGCTGCCGGAGGGGCGCGTGTGTGAGCATGAGAGTGTGTGGATGTTTCTGTCTGT
CTGTCCCTGAGAGGGAAGCGTGGGA[A/
G]CCTGAAAAGGCAGGCTTGTGGGGGCATCAGATTCCAGAGGACAAGGGGGGTGCCACCTGGTGCCCCCGCTGGA
GTGGAACAGAGCCAGTCTGTTGCCTCC A/G 1,526 0.144 0.040
0.405 0.000 73.5% 324 19.9% 286 3.4% 58 17.5% 80
76.2% 130 70.3% 64 84.2% 38 67.4% 92
72.5% 40 21.0% 138 18.9% 74 18.9% 74 3.4% 58
17.5% 80
rs619572 AB_ASSAYS_ON_DEMAND 6 64.5632 42364422
forward LGD
GAATTAGTGTCTATCTCAGCTCTGCTTCTGCCTGTTTTCTCCAGATGTTTACCTATTCTCTTTCATGGTAACCGC
CGAAGAGCCCAGAGGAACAATACCA[A/
G]TATCCCACTGATTTATTTTATATCTTAAAAAATTACTCAGGTCCTGCAGTACTGAGCTCATGTTCAAATTAAG
TTTGCTGAAAATCTAATTTGGGATGAG A/G extended_map 0.264
0.021 0.262 0.199 79.3% 198 8.3% 156 19.6% 56
56.2% 80 NA 0 77.3% 66 85.0% 40 78.3% 92
78.6% 42 NA 0 6.4% 78 10.3% 78
19.6% 56 56.2% 80
rs94776 TSCAF 6 64.6057 42389770 forward MIT
CCCCTGGAAGCTGGAAGAAACCCAGGAAGCTCAGGGTAAAGCGACTGTCCCAGCCCAGGCAGGGCCTTCTGTGTT
CTTCCAAGTCCATCACACAATGGGG[C/
T]GCCAACAAAGTCACAGGCTCTAGATGGGTGCCTGGCATATGGTAGGCACTTCATAAACACCTGTTCATGAAGA
TGCCTTCTGGCTGAAGATGCAAGCCCG C/T extended_map 0.137
0.004 0.271 0.005 55.6% 322 6.3% 302 1.8% 56
10.5% 76 56.2% 128 57.6% 66 71.1% 38 46.7% 90
55.0% 40 7.9% 152 2.6% 76 6.8% 74
1.8% 56 10.5% 76
rs2235833 AB_ASSAYS_ON_DEMAND 6 65.4521 42894807
forward LGD
GGAGGGGACCGCGGTCAAGTTCGGGTTATCTGGAGAGGCGAGGATTGACTTCAGGCAGCGGGCTGGAGTGCCACA
GTTGAATTCACCCAGCCCGACAAGT[A/
G]TTAACTCTGCAGATAGGCCTGCCCCCGCCCCAACCCCATAGATTCGTCGCTGCTAGTGCCTATGAAGAACTGT
GGCCGTGAAAACCCTGTTAACTTATAC A/G extended_map 0.179
0.012 0.195 0.003 35.4% 192 93.5% 154 86.2% 58
90.0% 80 NA 0 40.0% 60 42.5% 40 29.3% 92
26.2% 42 NA 0 97.4% 78 89.5% 76
86.2% 58 90.0% 80
rs2073155 AB_ASSAYS_ON_DEMAND 6 65.4523 42894926

forward LGD
CTGCCCCCGCCCCAACCCCATAGATTCGTCGCTGCTAGTGCCTATGAAGAACTGTGGCCGTGAAAACCCTGTTAA
CTTATACGAACCCAGAGGCTAAAGG[A/
G]TTCATTATTTTCCGAGGCTTTGGGGATGAGTGACTATTAGGGATGGATTTATGAGGCCTGGAGTCAGAAACCG
CAGGTTTCAGGGGAATCTTTCTTCAGA A/G 1,093 0.18 0.011
0.196 0.003 64.8% 196 6.6% 152 13.8% 58 10.0% 80
NA 0 59.1% 66 60.5% 38 70.7% 92
73.8% 42 NA 0 2.6% 78 10.8% 74 13.8% 58
10.0% 80
rs2125738 AB_ASSAYS_ON_DEMAND 6 66.219 43374605
forward LGD
GAAATCAAACTGAGGTAAAAATTTTTCTCTATAGGTCTGTCAGCCATAAACACACCTATTTCCAGAGAGGAATGT
TCATGAGTTGAGTCACTCCATTGCC[A/
G]AAACACCATCTACCATACAAAAAGTCTCTGACCATATTAGTATAGGGAGAAAAAACATAGGCTCCATGAGGAG
TGGCAAGTTCATTCACACTCCCACATT A/G 523 0.25 0.009
0.227 0.001 3.1% 194 61.5% 156 50.0% 58 58.8% 80
NA 0 1.6% 64 0.0% 40 5.6% 90
4.8% 42 NA 0 65.4% 78 57.7% 78 50.0% 58
58.8% 80
rs1334600 AB_ASSAYS_ON_DEMAND 6 66.6794 43696376
forward MIT
CCCTGCAGGGTTGCATTTTATTATCTATACTGGAGAGTGTTGATGGATGCGGTAGGAATAAGGAGCATGAAGATA
CTGGGTCCAAGAAGAATTTCAAGTA[C/
T]TGCCATTCCAAACAGAGAGGGACACCCTCAGTGCTTTGCCTATTTAGGTGAGGCAGTCAGAAGAGAATCTGAA
GGCAAGACAATCAGTTGCACACGTCTG C/T extended_map 0.225
0.003 0.411 0.032 67.3% 330 3.5% 312 0.0% 58
15.0% 80 69.1% 136 69.4% 62 70.0% 40 62.0% 92
42.9% 42 3.2% 156 2.6% 78 5.1% 78
0.0% 58 15.0% 80
rs1334601 TSCAF 6 66.6856 43700260 forward MIT
TTTAGACTGAAAGTCTTCATAGACAGGAAAATTGGTGCTCAGTCCTCAAGAGCTGACTAAAATTATGTATTATTA
TCTGATACTTTGAAAAGTAGGATGC[C/
T]TGAATATTTTCAGCAAGAGAACCAGCTTCTTTCCCACAACTTTAAATTCTATGTGTACAATATTGTTTGGGTG
TCACATATACCAGCTGAGACTAGTCAA C/T 259 0.262 0.018
0.529 0.101 78.5% 312 8.2% 306 0.0% 54 39.2% 74
84.3% 134 80.0% 60 72.2% 36 70.7% 82
59.5% 42 10.3% 156 5.4% 74 6.6% 76 0.0% 54
39.2% 74
rs2233437 APPLERA_RESEQUENCING 6 67.6109 44275017
reverse MIT
CACATTGCCACCCTTCAGAAGAACCAACCACTCATGGAATTGCTGCTTCGGAATGGAGCTGACATTGATGTGCAG
GTGAGACAGCCAGCAAAGCACTGCC[C/
T]GGCCCAGGGCCTGCCCCCACCTGACACATCCCCAAGTCCCCTGCCCAGCAGTCAGAAGTGGTGGCATTCACTT
CCTTATCCAGAGCCCAGGCCCAGCACA C/T 1,929 0.077 0.047
0.275 0.004 8.2% 196 40.0% 150 66.1% 56 32.5% 80
NA 0 6.1% 66 5.3% 38 10.9% 92

4.8%	42	NA	0	43.4%	76	36.5%	74	66.1%	56
	32.5%	80
CV11427141	AB_ASSAYS_ON_DEMAND	6	68.0366	44539502
forward LGD
AGGGCCTAGGGATGCTGCTGACCCAGACAGGGAAAGAGTTTGTACCTGCACCTGGCAATCATTACCTCACTCGCT
CAGAGGGCCCTGTGCTCACTGGGAA[A/
G]CATCTGCCTGCTGCTAGCAGGACTTGGTTTCACTTTCAGCATAATAATTTGGACATCAGAAGGTTTTGGGTTA
CTAGTGCTGCTTTAGTCCCACCTGAAG	A/G	1,415	0.152	0.000
0.213	0.050	89.2%	194	38.7%	150	37.9%	58	65.4%	78
	NA	0	85.9%	64	97.5%	40	87.8%	90
88.1%	42	NA	0	35.9%	78	41.7%	72	37.9%	58
	65.4%	78
rs699941	TSCAF	6	72.1	46573852	forward MIT
CCAAGGACAACCATGGACAGTCCTGCTAAAGCCCCTCATGTTACTCTATACTCAGACTGAGAAATGACCTAGGGA
GGAAGGGTGGTGATATATCTTGGAG[A/
T]AAAATCAGCTTCTCAGAGGAGGGATGAGACTAAAAGGAGGGCAGCTGCTCTGTGACTATTTTGCAAAAGAGAC
AAACACATTGCCATGTAAAGGCATATA	A/T	833	0.156	0.066
0.053	0.007	79.1%	320	24.0%	304	53.6%	56	32.5%	80
	76.2%	126	84.4%	64	78.9%	38	79.3%	92
78.6%	42	23.7%	152	28.9%	76	19.7%	76	53.6%	56
	32.5%	80
rs538242	TSCAF	6	72.1	46875710	reverse MIT
AGTGGCAACTGTGCTTCCATACCGACTATCCAAGTGACCATTGCACCCAACTTTAACCTACTTCTCTAGCCATCA
CATCTAGCTTCCCTTTTTTGTTCCA[A/
G]TTAGCTATCAGGTTGACATACATTTGTTCCCCTTCTGTGTGTGGCCTTATGTCATATTCTGTTCTGAAGAGCA
TGCATGGAGTGCTTAAGGGATAAGCAC	A/G	1,707	0.094	0.002
0.124	0.017	53.9%	330	93.2%	296	91.4%	58	100.0%	78
	47.0%	134	62.1%	66	47.4%	38	60.9%	92
52.4%	42	95.8%	144	89.5%	76	92.1%	76	91.4%	58
	100.0%	78
rs2017424	TSCAF	6	72.5809	47315819	forward MIT
CTGAGATGTAATGCTAGCTCCAACTACCCTCTAACTTGACTAGAATGAATGAACAGTTAGTTTAAATCAAGATCC
TTCTGAAACTCATTAATCATTTATT[C/
G]CTTAACTGTTATGTGTCAGGACATTGAGCCAGAAACACAATGATGAAGAGCATATTGTCTTTGAGAAGCTGAA
AAACAATATTAGCCCTGAGCTTTTCAA	C/G	1,044	0.149	0.039
0.068	0.063	91.3%	322	43.5%	294	67.2%	58	73.1%	78
	89.7%	136	93.5%	62	94.4%	36	90.9%	88
88.1%	42	45.8%	144	44.6%	74	38.2%	76	67.2%	58
	73.1%	78
rs243123	AB_ASSAYS_ON_DEMAND	6	73.3041	48680425
forward LGD
CCTTCAAGCATATGGAGAGAATCTGTATTTGTGGTCTGTACCTTTTGACATATACTATGCTGAACACATGGCCTT
TCCAAAAATACTGAAGGAAACAGTT[C/
T]TCTGAGTATCATTCATCATGTGTTTCCACAGTGACATCTCATTGCAAAGAAAGGTGAAAATTGTTGCTATGAG
ACTTTGAGTTGATGGAGAATAAAAGAG	C/T	362	0.214	0.304
0.000	0.262	13.1%	198	75.6%	156	12.1%	58	16.3%	80

NA 0 7.6% 66 10.0% 40 18.5% 92
7.1% 42 NA 0 74.4% 78 76.9% 78 12.1% 58
16.3% 80
rs6935314 AB_ASSAYS_ON_DEMAND 6 77.3211 53288338
forward LGD
TTGAATAATTGTGAGGCAGGTTTCCAAAGGCACATTGATTATTGACTGCAGATTGAGATAGATCAGGAGGTTCAG
TTCTGTGTCCTCTTAATAGAGTTGA[C/
T]AAATCATCATTTTCAATTGGAATGACATCTGACCACCAAACAGGAACACCTTGTACTCTCTTGCCTTTTGTCT
CAGGATTAGGAGGGCAATTGGAACCAC C/T 1,173 0.144 0.078
0.486 0.030 16.7% 198 68.6% 156 94.8% 58 86.3% 80
NA 0 15.2% 66 15.0% 40 18.5% 92
21.4% 42 NA 0 73.1% 78 64.1% 78 94.8% 58
86.3% 80
rs669254 TSCAF 6 77.4845 53396087 forward MIT
GGGTTGATAGGCCATAGTGATCAAGAAAAATATGTGAAATTTCTATATGCCAGTTATCGCTGTGTTAAAAACCTT
CAGAGCAAATTAAGAAAGGAGAAAT[A/
G]AACTATTTGTTCTCAAAAGCTTGGTTTCAAGGGGACCGAGGAAATGGGAAAAGCATCTGTGGACAAGGCTATT
GTGCTTGCTGCTGGAAGACTACCAAGG A/G extended_map 0.065 NA
NA NA 90.8% 76 60.2% 108 NA 0 NA
0 90.8% 76 NA 0 NA 0 NA 0
NA 0 60.2% 108 NA 0 NA 0 NA
0 NA 0
rs606548 TSCAF 6 77.5656 53449515 forward MIT
CCTCAACGACCACAGCTATTTAAATAAGATATACTGGATGTTTTAAATTTTCTAAGTAAATGGTTTAGGCTATTT
GTGAGATTTTACTTAACAGGCTAGG[C/
T]ACCTGCAAACCACCTCACTAATATTACCCCATTTAATCTCAATAACCCTGCAAGGAAGGTAGTATTGTCCTCA
TTTAATAGATGACAAAATTGAAGTTGG C/T 2,019 0.06 0.366
0.099 0.029 34.0% 300 5.3% 264 71.4% 56 17.5% 80
42.6% 108 40.6% 64 28.9% 38 21.1% 90
23.8% 42 7.3% 110 5.1% 78 2.6% 76 71.4% 56
17.5% 80
rs625899 AB_ASSAYS_ON_DEMAND 6 77.9344 54004424
forward LGD
TAAATGGTTTTAATATTAAAATGGTTTATTTAAATTAAAATGGTTTTAAATCTTCTCAACAATTGCAAGACGAAG
TTTCTGAGAGGATTGATAAGAATTA[C/
T]AGTCCCATTGACTTTCCATCACTTCAGTGTGTGATTTGAGTGGTTTTATTGCAGGGAAGATGGGCTGCAGAGT
TATTGAATCTATTTTTTTTTTCTTTTG C/T 812 0.16 0.048
0.070 0.018 87.4% 198 34.2% 152 60.3% 58 50.0% 80
NA 0 89.4% 66 97.5% 40 81.5% 92
88.1% 42 NA 0 38.2% 76 30.3% 76 60.3% 58
50.0% 80
rs890250 TSCAF 6 78.1247 54475024 forward MIT
AGTATTTGACTCCTACATACCAATGTTCTTGCAGAGAGGTCAAGAAACAGTACCTGTAGCATAGATAACCCCTCA
TAAAGATGTTTCTCGAACCTCTCCA[A/
G]TGGTCAGAGTTTCACAAGAGTGTCTATGACCTGAGCAGCTTCGTTTGTTTACTAAAAGAAGCTTGCTATAGAA
AAGGTACTTTCTGGAGGGCAAGTTCAG A/G extended_map 0.144 NA

NA NA 67.3% 110 13.4% 112 NA 0 NA
0 67.3% 110 NA 0 NA 0 NA 0
NA 0 13.4% 112 NA 0 NA 0 NA
0 NA 0
rs148109 AB_ASSAYS_ON_DEMAND 6 78.2239 54806062
forward MIT
GACAGAATTTGGTAAGATGGTACATTGGTCTATGTGGATTCTGATGAATCTCTTGATTTTGTTTAGGATGATAGT
CTCATAGGTAAATTGGGGAAATATG[A/
G]TACGCATTCTGTAACTTAACATATTTGTGTGATGTCTGCTAAGAAAATGCACACTCATGCCATACAAAATGTA
CAAATAAGTCTAGTTTATGCAGGTATC A/G 1,693 0.11 0.209
0.007 0.129 90.3% 298 49.6% 264 96.6% 58 88.7% 80
89.6% 106 93.8% 64 97.4% 38 85.6% 90
95.0% 40 46.4% 112 52.6% 76 51.3% 76 96.6% 58
88.7% 80
rs923537 AB_ASSAYS_ON_DEMAND 6 81.8401 66370402
reverse MIT
AAAGGTTAGCCTGGATTATTAAGAGCTCTTTTCCTGATGGGCAGATCACAGAGACAGAATTGCTATGTCCCATCT
TGTCACAGACCTTTTGTTATCTACT[A/
G]GGATGAGAACGTTGAAAACTGAAAAGAAAAAACAAAGCACAAATTCTTTTAACCTCAATATTTTGCCTAGTAA
ATATGGTGATCAGATACCTTAGTTTGT A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 1,561 0.219
0.086 0.062 0.076 99.1% 330 51.6% 304 84.5% 58
82.5% 80 100.0% 136 100.0% 64 100.0% 38 96.7% 92
100.0% 42 48.0% 148 61.5% 78 48.7% 78
84.5% 58 82.5% 80
rs923534 AB_ASSAYS_ON_DEMAND 6 81.8413 66373472
forward LGD
AATTTTATCAGTAAATTTGGAATAAAAAGTGTTGGAAAAGATATTCAATGGTAATGGGGTGAGTGGTTGATATGT
ATTGTACAACAGCAACTGAGAAACA[A/
T]TAAGTGTGAATAGAAATATCAGCAAATGCACCATTGAAGTAGTATCAGTAGTACACAAAGCCAATTCATCATG
AAATAGTTTACACTCTAACTCTTCCAT A/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression extended_map
0.179 0.070 0.052 0.061 98.5% 194 55.1% 156 84.5% 58
82.5% 80 NA 0 100.0% 62 100.0% 40
96.7% 92 100.0% 42 NA 0 61.5% 78 48.7% 78
84.5% 58 82.5% 80
CV211840 AB_ASSAYS_ON_DEMAND 6 82.5852 67685455
forward LGD
AGATTTAATTTATTCACTTCATTATTTTCTTCCCTCTTCTCAATCTTCCTCCTACTTCTGGATTCCCAATCTTAG
TTAATGACACCTTCCTCCCCTGACA[C/
T]GCAAATCAGAAACAAAAGAGTAATCTCCCCCTCGTCCTCTAATAACACACAAAGCATTTTGATTTCACTTCAT
TAACGTTTCTCGCATTCATCTCATCCT C/T 1,449 0.182 0.000
0.297 0.005 44.9% 196 99.3% 140 100.0% 50 97.2% 72
NA 0 42.2% 64 35.0% 40 51.1% 92
33.3% 42 NA 0 98.5% 68 100.0% 72 100.0% 50
97.2% 72

rs3793048 AB_ASSAYS_ON_DEMAND 6 83.97 70780344
forward LGD
TAACAGGTGATATGATTGTCTTCTTATCTTTATGTGTCAAAACTGACAATGACCTTTAAAATGCACGATGAGTGT
TTCATAATTCTGCTCTCACTAAAAC[G/
T]ATGACTGGTGTCCTTCCACCAGGAATTTGTATTACTAGCAAGAAAAAGTCAAAAATTACTTTAAATAATAGTT
TTAACTCTGGTCGTAGGTAGAAAAAAA G/T 983 0.192 0.029
0.160 0.035 67.7% 192 7.1% 154 20.7% 58 22.5% 80
NA 0 74.2% 62 65.8% 38 64.1% 92
52.4% 42 NA 0 10.3% 78 3.9% 76 20.7% 58
22.5% 80
rs2639291 AB_ASSAYS_ON_DEMAND 6 84.6528 71177611
forward LGD
CTTTGTTTCTTCAGGCAGTGGATTCTCACCTCACGTTACCTGGGTGCTCTCAACAAAATTTACTTTCATTGAGGA
GAATTTCTTTCCCTTCTCAGCTCTT[C/
T]AACATACTCAGAAGTTGAGTTTCTGGTCTGCTTGGTTTCCCTTTAAGTATATGTTTCCCGAAGCATCTCAAAC
TTAAAGAAAAGTTGCAAGTACATTATA C/T 108 0.33 0.006
0.546 0.004 91.3% 196 15.4% 156 8.6% 58 10.0% 80
NA 0 95.5% 66 95.0% 40 86.7% 90
90.5% 42 NA 0 14.1% 78 16.7% 78 8.6% 58
10.0% 80
rs1619936 AB_ASSAYS_ON_DEMAND 6 85.297 71594143
forward MIT
CCCAGCTTGCCCTTCCCAAGAGCTACACATACCCTGGGATAACTTGTTCCAAAAACACACCCTGCCCATGATCCC
TCCCTACCCTGGCCTGGGCCTAGCA[C/
T]GGAAGGTGCCTCTCAGATGTCACCTCTTCCCAAGACCTTTCCCGAAACTCCCCCAGTGGCTGTGGTTTTCTCT
TTAAATGTAACCCCCAATCATTCCACT C/T 768 0.201 0.026
0.461 0.108 81.3% 182 18.8% 154 5.2% 58 56.2% 80
NA 0 75.0% 64 100.0% 28 80.0% 90
87.5% 40 NA 0 15.8% 76 21.8% 78 5.2% 58
56.2% 80
rs1342752 AB_ASSAYS_ON_DEMAND 6 85.4938 71868464
forward MIT
CTTCTCTATCATTCTTTCTCTTTCCTGAAAAGCAATTCCTGAGTACCCAACCAGAAAGAACCTTTGTCCCTCACA
CCTGGCTGCATTGATTTCTAGATTT[C/
G]CTGATTGCCAATAACATATTGAAATACAAACTGCTCTCTAATTGTCTTCTTTTTTAAATGGATGGCTTATTTT
AATTAATGAGTAACTTGTGGATTTGGT C/G extended_map 0.131
0.021 0.328 0.028 37.2% 298 87.7% 252 98.1% 54
98.7% 76 38.0% 108 36.7% 60 26.3% 38 41.3% 92
44.7% 38 87.7% 106 90.8% 76 84.3% 70
98.1% 54 98.7% 76
rs199633 TSCAF 6 85.901 72247989 reverse MIT
AAACCTGGCCAAAAGTTTTGATCAAAAAAAAAATTAATGCTCTTCATAGGTGTTGGTAAACTTTACTTTGAATAC
AACGTTGTAAATTTGGTACATTTCA[A/
G]TGGCTTATGGGTACTAGGATATCAGCATTTTAATTGGCAGTTTCAGTGTGTTGTGCAACATGCCCCTGCTCAA
AAACTAGGACCTGAGATGATTCTCAAC A/G 1,264 0.167 0.015
0.164 0.002 65.2% 328 8.9% 304 17.9% 56 11.3% 80

68.2% 132 67.2% 64 62.5% 40 60.9% 92
60.5% 38 10.7% 150 7.7% 78 6.6% 76 17.9% 56
11.3% 80
rs6453633 AB_ASSAYS_ON_DEMAND 6 87.6365 73811249
forward LGD
TCATTGTGTCATCATCATTGATTTTTTTAATGAGCAGTTTCTGTATCTTATCAGAATAAAGGGCACATTTATCTG
CCCCCAAGCTTCTGATTATTTTCTC[C/
T]TTAGTGAATGAAGCCTGCCTTTCTCATGCTTTTATTCTCTTGTGTCTTTAAAGGCAGCTGTTCAAAATATTAC
AGTTTGCCCCCATTTCCAAGTTCTTGC C/T extended_map 0.232
0.244 0.016 0.013 71.2% 198 5.1% 156 56.9% 58
12.5% 80 NA 0 78.8% 66 72.5% 40 65.2% 92
71.4% 42 NA 0 3.8% 78 6.4% 78
56.9% 58 12.5% 80
rs1573057 AB_ASSAYS_ON_DEMAND 6 87.6405 73854028
reverse MIT
TAAATTCTGGGAAAATGAGAGGCACTGTTGTTGTTTTCTCACTTAAGTTCTATGCCTTTTTACAGTCACATCAGA
AATAGAACATCATCTCCTTATCTCA[C/
G]AAAACTATATTCTCAGTGACTTTCTGAAATACTTTTTGATCTCAACAGTCATTACAAACTTTTAGTATATGGT
TGATTATACCTATGGCAGGTAAAACAT C/G extended_map 0.31
0.276 0.036 0.025 19.1% 162 95.1% 144 39.3% 56
83.8% 74 NA 0 12.1% 58 3.8% 26 29.5% 78
28.1% 32 NA 0 95.6% 68 94.7% 76
39.3% 56 83.8% 74
rs1490207 AB_ASSAYS_ON_DEMAND 6 88.9159 77130537
forward LGD
AAATATATTATACTTTGAAAATGAATAATAGTTTTTGAGGGATGGTTGATATTCTCTTTCATGTAACAAAAAACT
AGTCTGAACACAATTATCCTAATTA[C/
G]TAACAGGCCGTTCTGTGGGCAAATAGTTGATCAACTTTATCCAAAAGATTTTTTTTTTCAATTCCTGAGGAAA
AACTTATCCAGAAATAATTACAGAGAA C/G 1,815 0.18 0.001
0.277 0.045 9.9% 192 64.7% 156 69.0% 58 39.5% 76
NA 0 9.1% 66 13.2% 38 9.1% 88
9.5% 42 NA 0 59.0% 78 70.5% 78 69.0% 58
39.5% 76
rs722715 AB_ASSAYS_ON_DEMAND 6 90.9091 81293486
forward MIT
TTTTAATCCCACATGTAACATGTCACAATTTACTCTGAGAACAAATGCTTTCATATTATATTTGGCTTGTAAATG
ACACTTCTGTTCATTAGTGGTACCT[A/
G]GTTGGGGCTTTGAGGAGTAGCTAATTTTGATGTAATTTATCAATGACAGAAAGGAATACACGGGTGAAATTTC
CAAAATTCAGCTACATCCTGACCTTGG A/G 1,336 0.155 0.015
0.116 0.015 7.7% 298 55.7% 262 41.1% 56 41.2% 80
9.6% 104 3.0% 66 15.8% 38 5.6% 90
4.8% 42 60.7% 112 51.4% 74 52.6% 76 41.1% 56
41.2% 80
rs194609 TSCAF 6 91.5665 82462703 forward MIT
TCTTGGAACCTTTCTACAAAAAGTGGCATGTACTTCTAGAAGCACCCTGCAATGCAGGCAGAGCAGTGGTAGTGT
GAAGAATTTGAGTACTCCCCCACCC[C/

T]TGTCTGTCCCCCACCTATTTGCTGCCTTTGTGGTGCAAATCCTAGTAATTCCAGAGACCACTGGGGTATTGCA
TGCTTTTCCAAGCATGCACACACATAT C/T 834 0.21 0.029
0.152 0.085 14.9% 308 77.3% 264 58.6% 58 43.8% 80
13.6% 110 10.6% 66 12.5% 40 20.7% 92
7.1% 42 82.7% 110 76.9% 78 69.7% 76 58.6% 58
43.8% 80
rs159045 AB_ASSAYS_ON_DEMAND 6 92.1627 83591185
forward MIT_and_LGD
GACAAGAACTCTTTCCTATCTTATTCACAGTCCAATCTCAATTCCTCCAATCCAGCCAAATGTTCTTACTATTTC
AAAGTTTCATTCTTCCAGAGTGTCT[C/
T]ATTCTTCCCATCTTTCCAAATCTTAATAATCACTTAAGGCCCACATAAAATCTTGCCTCATCCAGACAAGGAT
GCCTTCTCTGTCCATTGGGAGGGCCCT C/T 599 0.23 0.178
0.021 0.010 4.5% 198 62.2% 156 13.8% 58 73.8% 80
NA 0 0.0% 66 2.5% 40 8.7% 92
0.0% 42 NA 0 62.8% 78 61.5% 78 13.8% 58
73.8% 80
CV3154190 AB_ASSAYS_ON_DEMAND 6 92.6932 84611100
forward LGD
CTGATTCTTGGGCCTCTTGGTGGCCTAGTTGGATCCCAATAGTGGCAACAGTGGGTGAGTTCTTGGGCCCCTGGG
CAGGTGGTGTGGCATGGGTGGTGAC[A/
G]GTGGCAGTCGCAGGATGACCTCTGGGTCCCAGGTGGTACACGCTTATGTTGGTGGAGGCTGTTATGGGCTGCG
CAGGCCAGTCTCTAACCCTGCAGATGG A/G 233 0.276 0.079
0.153 0.056 18.7% 198 91.0% 156 63.8% 58 68.8% 80
NA 0 13.6% 66 10.0% 40 26.1% 92
2.4% 42 NA 0 92.3% 78 89.7% 78 63.8% 58
68.8% 80
rs6910156 AB_ASSAYS_ON_DEMAND 6 92.7777 84876744
forward LGD
ATATATTCAATTTCCTGAAACTGATGTTTGAATCAGTTATGAACATAAATTCATATGAATTCAAATATGAATATG
CTGAAAATACTATCAAGTATGTGCT[A/
G]GCCATCTAACACCAAAAGAAAAATCCACTGAGTATTAAACATAAAATTGGAAATGTGTACAAATAAAAATAAA
ATTTTACTATGTCTAAGTAAAAATAAA A/G extended_map 0.239
0.014 0.257 0.015 23.7% 198 91.6% 154 82.8% 58
98.7% 78 NA 0 15.2% 66 17.5% 40 32.6% 92
7.1% 42 NA 0 90.8% 76 92.3% 78
82.8% 58 98.7% 78
CV9865968 AB_ASSAYS_ON_DEMAND 6 95.277 90015563
forward LGD
GCCCTAAAAATCCTCACTGTTCCACCTAAAAAAAAATTTATTTCCCCCCCAGTAAATAATTAACTCTTCCAAATA
GCCATCTTCCACAGGCTGCTGGCAC[C/
T]GCCTCACTCCAAGCCCTCTTGCCTACTTATGCCCAACCCCTGGTCCTACAGGTGCTCTTGCTGAGGTCTGGCT
TCTCCACAGCTGCAGACAGGAAGGTCC C/T 1,517 0.145 0.000
0.178 0.149 92.4% 198 46.1% 152 48.3% 58 88.7% 80
NA 0 90.9% 66 97.5% 40 91.3% 92
92.9% 42 NA 0 35.1% 74 56.4% 78 48.3% 58
88.7% 80

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rs1962510       TSCAF   6       100.6606        94581955        forward MIT

CCTTCATTACCTTACATGACCCCATGAAATTTAGCCTCTTTGATTGTTACTTTCCCTATTTGTAAAACTACAACA
CTTTCCTTATTGAATTTCTGTAATA[C/
T]ATAAATGAGATAGCATATGAAAGACCAATGACTCACTAAGCGTTAGGGAAAGTGCTCCTGCCTTTTCTTACAC
ATATGGATATGTTTTTATTTGAGCTGA     C/T             475     0.295   NA      NA
        NA      2.7%    112     68.2%   110     NA      0       NA      0
        2.7%    112     NA      0       NA      0       NA      0       NA
        0       68.2%   110     NA      0       NA      0       NA      0
        NA      0
rs1352380       TSCAF   6       100.6915        94721685        forward MIT

TTTAATATTATGATTCTAGTTAGAACTCATTTACTTATGCAAAAAAAGGTAAGGAAACTGGTCCATGATAGATTC
TATCCTCAGTCTTAGGATTCAATAA[C/
T]ATTTCAGGATACATCCAGATATTGCTTACTTTTCATGAACATTGCAAAATACTGAGCCCTTTTGTTCCACATG
TCTATAGAAATTATAAACTATAGAGTT     C/T             extended_map    0.089   NA
        NA      NA      8.7%    104     44.3%   106     NA      0       NA
        0       8.7%    104     NA      0       NA      0       NA      0
        NA      0       44.3%   106     NA      0       NA      0       NA
        0       NA      0
rs222541        AB_ASSAYS_ON_DEMAND     6       101.1156        95226761
        forward LGD
TTAGGACATTTATTATTTCAATTACCATATGTAAGCAACCTAATAAAAATATTAGCATAATCCCCTAAGGCAGCT
TTCATCATCTCTTTAGATTTACTTG[C/
G]TATGCTATCAGTCAGTTATGAATGGAAATCAGAAATAGTTTAAGTAAATTAAGCAAAAATTACTTTGAATGCC
TACTGATTTTCTGCTCTGACATATACA     C/G             116     0.33    0.081
0.769   0.076   3.6%    196     74.3%   152     98.2%   56      42.1%   76
        NA      0       4.7%    64      2.5%    40      3.3%    92
0.0%    42      NA      0       77.6%   76      71.1%   76      98.2%   56
        42.1%   76
rs197870        AB_ASSAYS_ON_DEMAND     6       101.4877        95552462
        forward LGD
ATTTGTATACATATTGTTTAATATTACCCTCCAAAGACTACCTTTCAAAGAGTACAATTATAGACTGTTAGGGAC
TGGAGAGGTCTCTCCAAAAGAGTCA[A/
G]TTATAAGCTGCAATTTCTGTATAGGTTAGAGTTAATAAGGGAAAACAAGAGAGTAAATGGGAGGAAAACCGTT
TCAGATGGAGAGAGCTATATTTTTCTG     A/G             1,073   0.229   0.020
0.487   0.037   25.3%   198     91.7%   156     100.0%  58      75.0%   80
        NA      0       28.8%   66      15.0%   40      27.2%   92
16.7%   42      NA      0       94.9%   78      88.5%   78      100.0%  58
        75.0%   80
rs211158        AB_ASSAYS_ON_DEMAND     6       101.9122        97068536
        forward LGD
AAAATAGGTGACAAGTTAAATTTTCGAAAACACTTAAAATAACAAGTAATGGTTATTTCAGTGAAGGTAGTTGGC
ATATTTATTGCTTTTGATTTTTTAG[C/
G]TGAGCCAAGAGATTATTTTCATTTAAACTATAATAACTAGCATCATCAGAGAATAGGTCCTGCTGCCTAATTT
AACATCCGGTTAACAAAAGTTAATATA     C/G             880     0.237   0.098
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0.673 0.001 93.8% 194 32.9% 152 3.7% 54 30.0% 80
NA 0 97.0% 66 94.7% 38 91.1% 90
95.2% 42 NA 0 28.4% 74 37.2% 78 3.7% 54
30.0% 80
rs1222958 AB_ASSAYS_ON_DEMAND 6 105.983 102212778
forward LGD
ATCAAATAGCAGCTGTTTGGGGAAAGTAGCAAGCACATTTTCTGCAGGCCCATTGGTTGCTGTTTTGCTTTCATA
TTCTCTCACCATTAACTATACAGCA[A/
G]CTAGAGCAGAGGAGTTGTTAACAAAATATACTTTCACTGCTAGCCAAACTATATACATGACTTAGTGGTAATA
TTTGATTTTATATCATTTACTTATGTC A/G 2,004 0.077 0.021
0.038 0.017 74.0% 196 34.6% 156 51.8% 56 50.0% 80
NA 0 78.1% 64 82.5% 40 67.4% 92
90.5% 42 NA 0 30.8% 78 38.5% 78 51.8% 56
50.0% 80
rs2473164 AB_ASSAYS_ON_DEMAND 6 107.3146 104707092
forward LGD
ATAAATTACTTGAATTCTTTTACAAGTGAATTTGATTTAAAAGCCTCTTAAAAGAAGCTGATGGACAGGATATGA
CAGTGGCCAACTTCTAGATTCACTC[C/
T]AAATTTTAGGCATGCATCTGAAATCTCTCAATATTCATTTGTTGTGCCTTACAGGAATTACATTTAAGGATAA
GAAAACTAAGTGCATATGCCATCTATT C/T extended_map 0.117
0.019 0.070 0.119 7.2% 194 47.4% 154 31.0% 58
85.9% 78 NA 0 6.1% 66 8.3% 36 7.6% 92
9.5% 42 NA 0 39.5% 76 55.1% 78
31.0% 58 85.9% 78
rs1455201 TSCAF 6 107.3339 104735961 reverse MIT

TTTCAGTTTGTTGCCAAGATTTAAACATTGGAAGACTTAAGAATATGCTTGTCTTTTAAAAAAATATAATTCCAA
CTTTGATTTTAGATTCAGGGGGTAC[A/
G]TGTGCAAGTTTGTTACCTGGGTATATTGTGGGATGCTGAGATTTGGGGTATGATTGATCCTGTCGCCTAGGAA
CTGAGCATAGTTCCTAATAGTTTTTCA A/G 1,784 0.085 0.011
0.060 0.132 85.2% 310 47.1% 278 60.0% 50 8.6% 70
88.5% 122 88.3% 60 78.9% 38 81.1% 90
82.4% 34 43.2% 148 60.0% 70 41.7% 60 60.0% 50
8.6% 70
rs1190286 TSCAF 6 107.9479 105656516 forward MIT

CACTGGCAGAGCAGAACTTTGGCGCTCATGCCCATATGCTGGGTCCAATCGTGTGGCCTCTCAGGAAAGATTTTT
AAATTTGGCATGATAAGGAACCCTA[C/
T]TATATCAATAAACATAAGAAACATAATTAGAAGTCACATTCTAAGAGCATTAATTGACTATGGAAATATTTAA
TAAATTAGATTGAAATTATTTGAGAAA C/T 99 0.336 0.045
0.709 0.002 9.2% 304 85.8% 260 100.0% 58 90.0% 80
5.7% 106 7.6% 66 15.0% 40 12.0% 92
0.0% 42 88.0% 108 88.2% 76 80.3% 76 100.0% 58
90.0% 80
rs1149320 TSCAF 6 108.0509 105811079 forward MIT

AAAACATACCACCTAGGAAAAAGCAAAGGAGGCAGCTATGAAATTAGGGACCTGATTACCTTTCTGTAGGTGGGT
TCGTGCCATGCTTCCATTCCAAACA[C/
G]CAGGCCCAAGGATGGACTGTGTCCACATCCTGCTCAGGGACTGTGAAGGAGGGCAGTTGGGAGTTGGTCACCC
CAGGCAAGATGCTGACTTAGCAGAGAA C/G 447 0.291 0.003
0.484 0.027 85.9% 262 12.6% 246 7.4% 54 27.8% 72
88.9% 108 93.5% 46 86.7% 30 76.9% 78
80.6% 36 9.1% 110 14.7% 68 16.2% 68 7.4% 54
27.8% 72
rs2793389 AB_ASSAYS_ON_DEMAND 6 108.0547 105816736
forward LGD
TAATTTATTCATTCAAATGTTTTATTGAGTGTCTACTCTGTGTCATGCAGAAATGCACATGAACTTCAGACTAAA
AACACTGACTCACAGCACTTAAGTC[A/
C]ATACTTTACATAGAGCAAATCCCCATGTTATTTACAACACCAAAAGACCTGAGCTAGAACACAAACCATATTC
AAGCAAGCAGATTGACACAGACAGAAA A/C extended_map 0.221
0.035 0.516 0.006 14.1% 198 78.2% 156 94.6% 56
70.3% 74 NA 0 12.1% 66 12.5% 40 16.3% 92
28.6% 42 NA 0 80.8% 78 75.6% 78
94.6% 56 70.3% 74
rs655351 AB_ASSAYS_ON_DEMAND 6 112.5517 108643129
reverse MIT
GCATGATATCAGGTGCTCCCCTATCTCAACAAAAATTCTGTGCCTATGTTTTTTCAGAAGCTAACCACCTGACTT
GAGACTAGAATTGCACATGTTGCAT[A/
G]CCATTCTTGCCTTTGACTCTTTCAGACATTGTATCCAATATCATCTATCAAAGGAATGAGCCTGCCTTAGTAT
CCCTGATGTGCTTGGCTGTTGGCTGGG A/G 1,739 0.179 0.085
0.064 0.000 69.5% 308 10.6% 264 39.7% 58 8.7% 80
65.5% 110 72.7% 66 70.0% 40 71.7% 92
69.0% 42 11.8% 110 10.3% 78 9.2% 76 39.7% 58
8.7% 80
rs864712 AB_ASSAYS_ON_DEMAND 6 112.5995 108677755
forward LGD
TAATATTATTTTTATTCTAGAATTCTTATTGTAACGGTGAATGGGATCCTTTTTTTTCTATTGTATTTTCCAACT
GGTTATCTATGGTATGCTGAAAGAT[A/
T]AAGATAGTAAAATGTGTTTCTCTGTTTCCAGTATCCTTCTTTTTGGCTTAAGAGAAGGCATAAGCCACTGCAT
TCTTTAAAACTTTTAAGTGGCTCCTGT A/T extended_map 0.199
0.076 0.085 0.000 25.0% 180 87.7% 122 59.1% 44
88.9% 54 NA 0 25.0% 60 27.5% 40 23.7% 80
28.6% 42 NA 0 88.2% 68 87.0% 54
59.1% 44 88.9% 54
rs2153960 AB_ASSAYS_ON_DEMAND 6 113.0602 109033754
forward LGD
CCAGCCCTTTTGCTTTGTTTTGTTTTAGTCTCAGCAAGCTACTTACAGGCTTCTTTAAGTGGTGTAAAAAGCAAG
GGAATTCAAAGCTGTAAAAACTTGA[A/
G]CCTTGTTTAACCCTCTGCCATGATGAAGGACTTAACAAGGGTCTCCTATGGTGAGCTCACTCCAGCTCACGGG
TGGTTGCAGAAAGGGGAATGTTAAGAG A/G 401 0.204 0.000
0.271 0.000 92.9% 198 36.4% 154 36.2% 58 35.0% 80
NA 0 95.5% 66 87.5% 40 93.5% 92

97.6%	42	NA	0	34.2%	76	38.5%	78	36.2%	58
	35.0%	80
rs1033572	AB_ASSAYS_ON_DEMAND	6	114.826	110797859
forward LGD
CCAATCGCACAGCAGCCACCACCCTACTCACCAACTGGCCAGCTGTTGGTAATGGGGTTGTTTCTACAAACCCCA
TTAGGAAATGATGTACTGGCTTTCA[A/
G]TAAATAACAATAGAGAAGTTGCTAATAGGCAATTAGAAACTGCCTCCGTGCCCCCTTGGGGAGGGTCTGCAAA
CTGAAGCACACCTGTGGTATGAAGATC	A/G	extended_map	0.197
0.006	0.200	0.056	8.7%	196	65.6%	154	56.9%	58
37.5%	80	NA	0	12.1%	66	2.6%	38	8.7%	92
	7.1%	42	NA	0	65.4%	78	65.8%	76
56.9%	58	37.5%	80
rs240993	TSCAF	6	115.7797	111719284	forward MIT

ATGAGTGAAGGTACAAGTGAGAATATAATGTGGGCAGGGGAAGGTGAAGTGTGAGGGTGTGTGTGGGTATGGTAT
TTTGAAAAAGATCCCTAGGTCATTG[C/
T]GTTGCCACTTATCTACCCTTCTAATCTATACTGCCCTTAAACAGTTTTAATGCTGAGAAAGAAAAATGAGAAT
GCTTTCCTTTTCTCACTTAATTTTAGT	C/T	1,008	0.24	0.126
0.057	0.086	90.9%	308	27.1%	258	69.0%	58	61.5%	78
	86.6%	112	97.0%	66	95.0%	40	90.0%	90
95.2%	42	24.5%	110	29.7%	74	28.4%	74	69.0%	58
	61.5%	78
rs455726	TSCAF	6	115.8077	111744938	reverse MIT

GTAGTTATTGTCAGGTTGACTGAACACCTTTACTACTTCCTATTACCCTCTCTCTTCTTCAGCATTTTCTCTTCA
GCCCTGACCTCAATGCCCCTTCACT[C/
T]ATCTTTTTATTCTTGTTTCTTCCAATTCAGAATGCAGGAATTGTGGTGTATTTTAGCTCACATGAAAGGGATT
ATGAAGTCTAATTATAATAACTCTTTG	C/T	extended_map	0.244
0.059	0.110	0.029	2.0%	300	56.7%	252	27.8%	54
36.5%	74	1.9%	106	0.0%	66	0.0%	38	4.4%	90
	4.8%	42	60.0%	110	54.2%	72	54.3%	70
27.8%	54	36.5%	74
rs706905	AB_ASSAYS_ON_DEMAND	6	116.07	112090692
forward LGD
CTAATTCACTTGCTATAGATCTCTGGGGCACCGGGAAACACTGAATGATGCCATCGTGAATGTGGAGCCCTGGAG
TTACTCTGATCAGGAAAATACCACA[C/
T]GCCATGAACTCATGGCTATAGTCTTCTGCAAGTTATCATGCCTAGAAAAACTGGTGAAGGGCATTTTCACCAA
TTGGATCCTGTGCCTGTGATCAAGGTG	C/T	772	0.248	0.000
0.331	0.018	10.6%	198	76.9%	156	75.9%	58	62.5%	80
	NA	0	4.5%	66	10.0%	40	15.2%	92
16.7%	42	NA	0	75.6%	78	78.2%	78	75.9%	58
	62.5%	80
rs997368	AB_ASSAYS_ON_DEMAND	6	116.07	112288861
forward MIT
GCATTTAAATTCTGAGAGTCCCTTAGATTCTATCATTCGGAAACCTGACTCTAAAAATACCAAATTATAAAGAAA
TTATGGCACAATAAGTATTTTAATC[A/

G]CTTTTTATAGCTTGCAATCAAGTTGACAAATACAAAAATTACTTGAGTATTATATTTAAAAACATCCTGTAAT
GAGTGCTCTTGTTTTCCATGTTCTTGG A/G 1,300 0.213 NA NA
NA 87.0% 108 24.1% 108 NA 0 NA 0
87.0% 108 NA 0 NA 0 NA 0 NA
0 24.1% 108 NA 0 NA 0 NA 0
NA 0
CV1021541 AB_ASSAYS_ON_DEMAND 6 117.7693 115389179
forward LGD
ATTGTGGGAGTTACAACTCAAGATTAGATTTGGGTGGGGACACAGCCAAACCATATTACCCTATCAGTAATTTTG
CCGATCAACTAAAAAAAGTGACATA[C/
T]TGGAAATGAGAGATTAGTCGAATACATCATTGTTGTATCCTTATTTCATGTTTAATAGTTATTGCCTTAAACA
ATATATAAGGTTTTGGGTGCAGAAGCC C/T 1,816 0.13 0.078
0.461 0.000 79.1% 196 28.6% 154 3.6% 56 27.5% 80
NA 0 82.8% 64 70.0% 40 80.4% 92
85.7% 42 NA 0 31.6% 76 25.6% 78 3.6% 56
27.5% 80
rs218867 AB_ASSAYS_ON_DEMAND 6 120.0411 121379111
forward MIT_and_LGD
ATTTCAAATCAAATAATCTTTCAATACATAAGAACCTACAATCAATTGATCCTATCAACTTTTCACTGTACCATA
CATATCCACCCTCTTGTCTCCACCT[C/
T]CCTTTTGATCCAGCTTAAACACCACGGTCACAATATTATAAAAATTAACTTGCATATAACATCAACTCCCTTG
TGCCCTTCCTTGCTTACTGTATTCTCT C/T 80 0.352 0.322
0.025 0.004 7.1% 198 84.6% 156 19.0% 58 78.7% 80
NA 0 1.5% 66 0.0% 40 14.1% 92
9.5% 42 NA 0 83.3% 78 85.9% 78 19.0% 58
78.7% 80
rs443149 AB_ASSAYS_ON_DEMAND 6 120.0481 121395346
forward LGD
ATCTCCACAGCTAGAGAAAACAGTTCCCACTCAATTGTTAGTTTCAGGAGTGAATGGGAAGTTGATAAAGGTGTG
GGGTCTCAGCTTCTGTCCACCATAT[A/
G]CATTGGTTAAAGGAAAGTCACCCTAGAATCTGCAACAGTTCATTATTATACATAGTTTCTAATGCAGTTATAA
TTTTTTGGCATGTATATACATTCAAGC A/G extended_map 0.351
0.322 0.024 0.004 7.1% 196 84.6% 156 19.0% 58
78.7% 80 NA 0 1.5% 66 0.0% 40 14.4% 90
9.5% 42 NA 0 83.3% 78 85.9% 78
19.0% 58 78.7% 80
CV11635757 AB_ASSAYS_ON_DEMAND 6 120.152 121635172
forward LGD
AAATGGCACTTCTCTCATTAAACCTCTTTTCCCTACTGCTCCCACACGCAGAGCACTCTGACCCCCCTTCTCTGT
CTCTTATATTTCTGACATGTATCAC[A/
G]GACATTTAGTTATGTGGCTTACTCCTCTAGACAAACTTAAGAAACTATTCCAGAGGAAACTAATGATCTCACT
TCGGTATTCCCTTTGCAGTGCTCAGAG A/G extended_map 0.296
0.322 0.009 0.001 11.3% 194 84.6% 156 19.0% 58
82.5% 80 NA 0 4.7% 64 5.3% 38 18.5% 92
14.3% 42 NA 0 83.3% 78 85.9% 78
19.0% 58 82.5% 80

rs2269579 AB_ASSAYS_ON_DEMAND 6 120.3978 122136989
forward LGD
TAATGTATCAACTCCTTCACAATGCCTTCCTGACTACTCTTCAGGACCGTCACCCTCCTGAAGGGGTAAGATTTC
CTCCATGGTTTGGGGCCTCATGATC[A/
G]AAACAACTGCTTCTGCACCTTAAACTGAAGCGATGATACAGAGTAGCACTGAATCGGTGTTAATAAGCAGGCA
ATAAGGCTATAGCCCCCAAGCCTCTAT A/G 2,005 0.096 0.018
0.254 0.148 56.6% 198 13.5% 156 3.4% 58 56.2% 80
NA 0 56.1% 66 52.5% 40 58.7% 92
73.8% 42 NA 0 19.2% 78 7.7% 78 3.4% 58
56.2% 80
rs765533 TSCAF 6 123.8559 124123520 reverse MIT

GATTTTTCTGATTTTCAGATAATCCATCCCCTGCTACTCTTACTAGCTTTAAGAAAAATATTTGACATCTTCTTA
GATTCTAAAATCACTTTATTCATAC[C/
T]CATATTCAAGGGTCATGGAGACCTTAAAAGCCAACAGTATTTTTGAACTTCACGGCTCCCTCATCCTCCCACA
GCCACACTCCTTGCTCCAGCCCTCGGG C/T extended_map 0.075
0.018 0.043 0.054 32.5% 308 71.8% 262 56.9% 58
44.7% 76 35.3% 116 29.0% 62 36.8% 38 29.3% 92
40.5% 42 75.0% 112 67.6% 74 71.1% 76
56.9% 58 44.7% 76
rs1028571 AB_ASSAYS_ON_DEMAND 6 124.67 124591238
forward MIT
AAAGGATCCCCATGGCATCCTGGCCAAAGCATGGGGCCACAGGGTGACTGGAGCACCAGAGACAAAGACAGGATT
CATTTTGTAAAAAGATTACGACACA[A/
G]CAACTTGAGAAATCTATAGACACCTTAGTGGTTCTGTATAAGTAAAGAATCGCATACTCAATTTGCATGGGGG
AAAAATCCTCTAAATTTCTAGAATTTA A/G extended_map 0.151
0.002 0.196 0.005 29.2% 312 84.0% 268 81.0% 58
77.5% 80 32.5% 114 24.2% 66 40.0% 40 23.9% 92
19.0% 42 83.0% 112 78.2% 78 91.0% 78
81.0% 58 77.5% 80
rs1015247 AB_ASSAYS_ON_DEMAND 6 124.6872 124601090
forward LGD
TAATAAACATAATTTCTAAAATTCACTTTGGAAATCACTTAGATTTATACGAATTGCCTATCACTTCTAATTTGG
AGACTGAAACTGATAGAAACTCAGG[A/
C]CTTTTAGAATGTTACTGGACTCTAGAGTTTGTTTTTCCACTGAGATATATTTTTCCTACATTTTCTCCAAATC
GGATCATTGCTCTAAATAGAAAAATGA A/C 690 0.294 0.014
0.279 0.058 92.9% 198 22.7% 154 35.2% 54 50.0% 78
NA 0 98.5% 66 90.0% 40 90.2% 92
95.0% 40 NA 0 26.9% 78 18.4% 76 35.2% 54
50.0% 78
rs493706 AB_ASSAYS_ON_DEMAND 6 125.1503 124867166
reverse MIT
CGTCTCTGGCACTATCCAGGGAAAACTGGTCTTAACCCCATATTGAGATAAAATAGCTATTTAGAATGGCAATCG
ACATATCACATTACAATAGTCTGAT[A/
G]AAATGTCTATTTAGACCATCCCACTGATTTCCTTTGTTTGGATTATATTTTGCCCTCTCATATGAATTATATT
AAGGTGAGCAAATGTACCAACCAGTTA A/G extended_map 0.204

0.098 0.629 0.014 11.1% 180 71.1% 152 98.2% 56
57.7% 78 NA 0 6.5% 62 14.3% 28 13.3% 90
10.0% 40 NA 0 71.6% 74 70.5% 78
98.2% 56 57.7% 78
rs2039493 AB_ASSAYS_ON_DEMAND 6 125.52 125324173
forward MIT
ACAGTTTTGAAAATTAACACATTAACAAAAATAAGTAACAATTAATGTTCTTTCACCTGAGCAGCCTAGGAAACT
CTGGGGAAGTTGGACTAGGAAGGAT[G/
T]AGCAGGCTGACAGGGCCAGAAAGGTTTTCCTTCTCTACATCTCTGCCCTTTTTCTTTCAATTAGCACATTGAG
TGCAACAGCTGAACTGCAACCAGCCAG G/T 1,581 0.106 0.016
0.257 0.115 17.8% 180 62.2% 148 76.8% 56 22.4% 76
NA 0 10.9% 64 28.6% 28 19.3% 88
18.4% 38 NA 0 58.3% 72 65.8% 76 76.8% 56
22.4% 76
rs512381 AB_ASSAYS_ON_DEMAND 6 125.662 125478035
forward MIT_and_LGD
ACATGTGGCCTGCTCTACTTAGCTAGTTCATCGAGATTTATGAGAAAACATGTCCGTATTCTTGTTGCTTAAAAA
CATTATTCTGCATGTTGCAAGTAGT[C/
T]ACTGAACTCAACTTGTAAAAGGCTGATTTCCTTCCCTGAATGTGCCATCTCCCCAAGTCCTCACTTATAGCCT
GCTAGGGTTTGAAATATTGATGAGTAC C/T 211 0.284 0.069
0.137 0.005 96.0% 198 30.8% 156 62.1% 58 38.8% 80
NA 0 100.0% 66 92.5% 40 94.6% 92
88.1% 42 NA 0 33.3% 78 28.2% 78 62.1% 58
38.8% 80
CV7861529 AB_ASSAYS_ON_DEMAND 6 125.8433 125612135
forward LGD
CACTCTCTCCCAATAAATGACACATTGTAGAAGGTGTTTTATAGCCTGACTTGTTAATAGAGCCAGATCATTCTG
TAACAAAACCAAACATGGCAATCAG[C/
T]GTTAAAACACAAAATCACCAAAAGCTGAGTGAGATAAACATAGAACTATTTGTCATCTATAAAAGAAGGAGCG
GGACCATCTAATTTTAAAAATGCTTCT C/T extended_map 0.269
0.068 0.132 0.001 7.1% 198 73.7% 156 43.1% 58
70.0% 80 NA 0 7.6% 66 7.5% 40 6.5% 92
11.9% 42 NA 0 78.2% 78 69.2% 78
43.1% 58 70.0% 80
rs1353197 AB_ASSAYS_ON_DEMAND 6 126.039 125756909
forward LGD
CTTAATTCTGAAGAGAAGTACATTCAACACAGCTTTACACAAATTCAGCAATTTGGGCAACTCAGTTATACAACT
GCCATGTAAATCCATGGGGTGAAGA[C/
T]AAAATGTTTCTGTGAGATACTAAGTACTAAAGTCAAGGTTACCATTTTCACACAAAAACAATTTCTGTAGAGA
AATATCTGTGGATATAAAATGGATTTC C/T 1,903 0.064 0.012
0.169 0.045 67.2% 198 30.8% 156 19.0% 58 10.0% 80
NA 0 77.3% 66 57.5% 40 64.1% 92
64.3% 42 NA 0 37.2% 78 24.4% 78 19.0% 58
10.0% 80
rs1361595 TSCAF 6 128.1049 128834721 reverse MIT

ATGCAATTATCACTTATTAAAATTACAATTGTATTTCTTCCCTCAACCAGCATATGAGTCAGACAAGTCTTACTC
ATTTTAGAAACAAGTTAACATATAA[C/
T]AGGATGCTAAGTAGATAATGGCTGAATGAGTGAACTAGCCTCCCCAGGGTAGCTCATCTCTGCTAGTTATTTA
AAGAAAAATGATACGATGAAATAATTT C/T 1,994 0.117 0.000
0.174 0.208 36.3% 300 84.6% 266 84.6% 52 32.5% 80
36.8% 106 28.8% 66 36.1% 36 41.3% 92
27.5% 40 83.0% 112 83.3% 78 88.2% 76 84.6% 52
32.5% 80
rs479187 AB_ASSAYS_ON_DEMAND 6 128.2141 128972711
forward LGD
GTCAGTCCAGCTGAATGCCGTGTATGTATGTTTGTGTTTGTGTGTTTATACACCAAGTGTAAAATAAAATAAAGT
ACAAGTCATAAAATTGGACATGTTA[C/
T]GGATAGTTTTGTATTGTCATAAACACATTTACACTCAATAAATGTGGAACGAATAAATCAAAGGACAAAAAGC
TTTGAATACCTAATGGAACCTGAGGGT C/T extended_map 0.25
0.081 0.099 0.057 93.8% 192 30.8% 156 64.8% 54
59.0% 78 NA 0 95.3% 64 92.1% 38 93.3% 90
95.2% 42 NA 0 33.3% 78 28.2% 78
64.8% 54 59.0% 78
rs2286453 AB_ASSAYS_ON_DEMAND 6 130.935 131978368
forward LGD
CGCAAGTGTATCTATAAACAGAAATCCCTTTGAATAATACTGAATACCTTCCAGTATTGTGATTATATAGGAACA
CAAAATGGGTAGCTGAAGATATTAA[A/
C]CTTTCTGAATAGGAATGTAATGGAGTTATTCTTGATTTGATTCATTTTAAAGAATTATTTCTACCCTATTTTT
TCAGAAGTGTCCCATTTGAAGAGAGGA A/C extended_map 0.322
0.093 0.167 0.089 88.1% 194 11.5% 156 43.1% 58
42.3% 78 NA 0 87.9% 66 89.5% 38 87.8% 90
81.0% 42 NA 0 15.4% 78 7.7% 78
43.1% 58 42.3% 78
rs1029122 TSCAF 6 131.0256 132230711 reverse MIT

TTTGATCCTATGTTCAATTCTACTCTTATGTAGAATTGAACAGCCTATTCTTCCACCGTGTACAAAGACCTAACC
CATGTTCTCTTTTTTCCAGACTATA[C/
T]GACCAACCCACTAGGTAGCATCATCTGTAATCCTCCCAGGAATATCTGCATATTCAAATAAATGAAAGAATGG
AAAGGCTAATGAAGCTGCCAAAATTCT C/T 300 0.251 0.000
0.304 0.021 1.9% 312 57.5% 266 56.9% 58 40.0% 80
0.0% 114 0.0% 66 2.5% 40 5.4% 92
2.4% 42 54.5% 112 55.1% 78 64.5% 76 56.9% 58
40.0% 80
rs604196 APPLERA_RESEQUENCING 6 131.3285 132624605
forward MIT
GCCTCTGCCAGCCAGGTGAGCATGGAGAAGAACAGCAAACACATGAATTCCACTTGGCTTTTCGGCTTCCAGAGC
CTACAGGAGACACCGAGGAAGACCC[A/
G]ATTAGCCCACATTAATGCATGTTCAGACAGTTTACATTCAAACACACTTGGAGGGACAACTGAGATAAAAAGC
TAAAGCAATTTAAATGAATGCTTGAAC A/G 1,339 0.176 0.022
0.121 0.039 8.2% 182 61.0% 154 43.1% 58 37.5% 80
NA 0 6.2% 64 10.7% 28 8.9% 90

7.5%	40	NA	0	64.5%	76	57.7%	78	43.1%	58
	37.5%	80
rs159425	AB_ASSAYS_ON_DEMAND	6	132.403	133703586
forward MIT
ATAACTCTAGAGAAATATTAGTTGACCTATTGAAATGTGGCACAATCCAGGGCTCACCCCTCTCAGGATCATTAG
CATTAGATTGAGGGTATTTCCCTGC[A/
G]TACCTCTCTCTAATACCAGAAACTCAATATTTTAGTAGTCACAGGGAAAAGATGATAGCAACAGTGCCATGGG
TGAACTGTACTCTTTTTCTGTTCTTTG	A/G	1,477	0.267	0.129
0.079	0.074	11.9%	168	81.8%	132	40.5%	42	51.4%	74
	NA	0	9.7%	62	7.7%	26	15.0%	80
21.1%	38	NA	0	79.7%	64	83.8%	68	40.5%	42
	51.4%	74
rs1000025	TSCAF	6	132.6829	134065889	forward MIT

CTTTCCCTGTGAAGATCTTACCAGTACACAGACTCAGGGGACACACATGGAGTGGAGGGAGAGAAAGAACAAGAA
CAGCCAGTTCAACCCAGAGTATCAA[C/
T]AGTTGTCATAGCTGCATGTTCTTACATTTAGGTAATTTTTTTCCAATGTAGGAAGAGAGATCTTGAGATAGCA
AAACCTTGCCATCAAAATCTAAGCAGA	C/T	716	0.311	0.019
0.586	0.001	92.5%	332	20.2%	302	7.4%	54	22.5%	80
	91.2%	136	98.4%	64	97.5%	40	88.0%	92
78.6%	42	24.3%	152	16.7%	78	15.3%	72	7.4%	54
	22.5%	80
rs6907633	AB_ASSAYS_ON_DEMAND	6	133.4462	134339460
	forward LGD
GTTAGCTTTACTCTCCCTTCTCTCTCTTGCCTTTACATCCAAGGTTTTACAGCACCCTGGATTATATTTCACTAG
GTTTGTATCCTGCCTTAGACTGGGA[A/
G]CATGTTGGGAGCAGGAGTGTCTGTATCATGGGTGCCAGTGCTCAGTAGAGGTTACAGGATGCCCCAGGAAGGA
GATGCAGGAACTTAGCAGAAGGCTCAC	A/G	1,047	0.284	0.000
0.466	0.080	27.3%	198	98.7%	156	100.0%	58	78.7%	80
	NA	0	21.2%	66	25.0%	40	32.6%	92
23.8%	42	NA	0	100.0%	78	97.4%	78	100.0%	58
	78.7%	80
rs1009840	TSCAF	6	134.3633	134527255	forward MIT

CCACTGAGGAAGAATGATGCTACCATTAACTGTCTCTAAAAAGAGGAAGTAAATGCCACTGCAATCTGCTATTGA
GGTTTCCCTAGATCTGGAATATCAA[A/
G]CATTTCAATTCACACTAAAGTTCAGAATAATAATTACTAATAATATTTTTAATGGAGTATTTACAATGGGCCA
GGCAGATTTATTGTGTCATTATCTCAG	A/G	2,120	0.231	0.053
0.116	0.000	93.3%	300	33.2%	256	60.7%	56	35.0%	80
	96.3%	108	92.4%	66	81.6%	38	95.5%	88
90.5%	42	31.5%	108	29.7%	74	39.2%	74	60.7%	56
	35.0%	80
rs7756167	AB_ASSAYS_ON_DEMAND	6	135.7469	135603575
	forward LGD
GAATTGCTCTGACTCAGTTAAAACGTGTTTGGGAAAAAAGTACATACACACGGGAAATTTCAGATTCAACTACTA
ATTCAGACTGCCCTCATCCAATAGA[A/

G]CAATAAGCAAAGAAAATCATCAAAACCTCAGAAAGCACCATCATAACAGAAATTATCCTGTTTCTTTCCAGAC
TTGTGAAATAAATTCTAAACACAGCAG A/G 1,904 0.263 0.000
0.386 0.009 79.3% 198 8.4% 154 8.6% 58 2.5% 80
NA 0 83.3% 66 80.0% 40 76.1% 92
81.0% 42 NA 0 10.3% 78 6.6% 76 8.6% 58
2.5% 80
rs4896149 AB_ASSAYS_ON_DEMAND 6 135.9122 135797073
forward LGD
TCTTCACTAGCTCCCAATCGCACATTGAAAAAAATATCAAGTCCTTACCAGTGAGGTCCAAGGCCATTTATGAAA
TGTCCCCTTCACACATCCACTGTGT[C/
T]CCAGACATGTGAAACTACCTGCAGGCCTTCACGTGTGCCAAGTTCTCTCTTGCTTTTGTATCATTACACACAT
ATCCCCTCCCCTGAAAAATGTGCTTCC C/T 1,684 0.273 0.003
0.363 0.007 79.8% 198 7.8% 154 10.7% 56 13.8% 80
NA 0 80.3% 66 75.0% 40 81.5% 92
76.2% 42 NA 0 7.7% 78 7.9% 76 10.7% 56
13.8% 80
rs1480642 AB_ASSAYS_ON_DEMAND 6 136.8026 136480098
forward LGD
CCCTATGCATTCTACTTAAATATATTTCATTTTTAAAGGTAAATTTTACAAATATTTATGGATTGTTCCTTTATT
ACTTTTTATATGTGAGGGAAAGCTC[C/
T]AACTTGCTTTACCTTTCTAAGATATCCCATTTTCTCTATACCATTTGTTGACTAATATATCTCTTGCCCACTG
GTTTGTAACAGTGCCTTAATTAGTTTT C/T 16 0.459 0.189
0.216 0.013 89.4% 198 0.6% 156 37.9% 58 5.0% 80
NA 0 89.4% 66 90.0% 40 89.1% 92
81.0% 42 NA 0 1.3% 78 0.0% 78 37.9% 58
5.0% 80
rs3734548 APPLERA_RESEQUENCING 6 136.8228 136488969
forward MIT
ATCTCACAAAAGTGACAAAGAAAAGATCTAAACACAGCTTTCAAAAGATCAGCACTGGAGGTTTAATCAACATCC
TTTTGAATGGCTGAGTCCAAATTAA[C/
T]ACTTTAATCATGACTAATCTACTAGCTAATTATCTATTGAGAACTTATGAAACCTAGGATCGAAGCTTTGTTA
TAGGCCCTTAACTAACTTGTATTATTT C/T extended_map 0.355
0.001 0.574 0.054 17.9% 168 98.0% 152 100.0% 56
82.1% 78 NA 0 19.0% 58 27.3% 22 14.8% 88
5.0% 40 NA 0 97.3% 74 98.7% 78
100.0% 56 82.1% 78
rs703193 AB_ASSAYS_ON_DEMAND 6 137.0516 136589920
forward MIT
AGTCAAGAAGGGCTCTGGCTAAACAGTTTCCTTTGCCACCATTTTAATTATCTGAATTAAACAAGATATTTCAGT
ATTCACCACAATGTACTGGTTGAAA[C/
T]ATGAAATCACTAAGAGAAGGTGCTCCAAGGTTGTTTACCATGAGCTACCTTTTTTAAGTGACAAGGTCTCGCT
CTGTTGCCCCCGCTGGAGTGCAGTGGG C/T 2,092 0.101 NA NA
NA 54.3% 92 10.4% 96 NA 0 NA 0
54.3% 92 NA 0 NA 0 NA 0 NA
0 10.4% 96 NA 0 NA 0 NA 0
NA 0

rs276497 TSCAF 6 138.7242 137327697 forward MIT

AAGGGTAAGGTTCTCAGGGTGAACTCATAAACAGCCAGGGTAATCAGCCTCTGTGGTTAACCCAACCTGTCTTTT
GTGGCTGAGGCATTTAGACTTTCCC[A/
G]TTATGGCCAGCACATTCATTAACCAGTACAGAAAGCAAACAAATCGCAAGAGACTGGACAGCCAAATGTGATC
ACTTCTGGAGACTCCCCTTTGGGACCA A/G 453 0.328 0.000
0.512 0.000 23.2% 302 99.2% 264 100.0% 58 100.0% 80
22.2% 108 16.1% 62 17.5% 40 31.5% 92
23.8% 42 99.1% 110 98.7% 78 100.0% 76 100.0% 58
100.0% 80
rs276499 AB_ASSAYS_ON_DEMAND 6 138.7246 137327874
forward LGD
TCTGGAGACTCCCCTTTGGGACCATTCAAGTTTCTGAAGCTTATGACCAACTGGGGCAGCCTTAGCATTTCAGAA
GCCCTGCTCCACCTTGCTCAGAAAA[A/
G]GTCCCCAGATGTCCTACCCCCTTTAGCCTTCTAAAGCTGAAGCTGTGAAGGAATCAGAGGCTCTGATCTGTTG
GACACCAGGTCTTATAAGGTCTTTGTA A/G extended_map 0.316
0.000 0.511 0.001 23.2% 198 98.7% 156 100.0% 58
100.0% 80 NA 0 18.2% 66 17.5% 40 29.3% 92
23.8% 42 NA 0 98.7% 78 98.7% 78
100.0% 58 100.0% 80
rs203136 AB_ASSAYS_ON_DEMAND 6 141.6104 138586822
forward LGD
TTATATGCAGTTCATGGTTGACCAAAACATCATTTTGTGGTGCAGGACTCTGTCTCTTCCTCTGTGAAATAAAAA
TAATACTGACCTACTTACCTAATTT[G/
T]AGCTGTTTCGATGATCAAGTGAAAAAATGTTTTGTGAAAACACTTTGAAAATTATAAGGTATTATTGGCAGGG
CACGGTGGCTCACGCCTGTAATCCCAG G/T extended_map 0.153
0.015 0.117 0.000 10.6% 198 61.0% 154 46.3% 54
62.5% 80 NA 0 4.5% 66 5.0% 40 17.4% 92
15.0% 40 NA 0 65.4% 78 56.6% 76
46.3% 54 62.5% 80
rs736946 TSCAF 6 143.8114 139736319 forward MIT

CGAGGTGTGAACCATACAATCTGGAGTAAAGAATAAATCAGTTAGATAGAAGAGAACTGAGTGGATGAGCAGAGA
CAGATCACAGGGGTCCCACCACATA[A/
C]CCCTGCTGCTGCTGGCAGAGAATTGTCTCTGGACCTGCACAATCTTCTTGTCCAATTTCATGCTCAGAAAGGT
CTGGCCCTACCACAGTGCTTGTTCTTA A/C 1,954 0.138 0.027
0.100 0.045 61.4% 272 10.2% 256 23.9% 46 29.7% 74
59.6% 104 67.9% 56 70.6% 34 55.1% 78
61.1% 36 8.9% 112 13.2% 68 9.2% 76 23.9% 46
29.7% 74
rs225684 TSCAF 6 145.4497 142503462 forward MIT

ACTTCATAGATCAAAATGTAGGCTGTGTACTTGTGTCAGAAGTACCATGTTTGCATTCTTCTGTAAGCTTTGATA
ACCTGTTGTTGATACTCTGGCCTAC[A/
G]CATTTCTCTCAACCCTGTTTCTCATGATTACACTAAGGTTTCACTCATTCTTTCCTTATACTGTTACTCATAG
ACAATATAGGTAACATTCCTTTCTTCC A/G 2,008 0.099 0.175

0.004 0.056 91.6% 298 54.6% 262 96.6% 58 81.2% 80
95.3% 106 93.5% 62 86.8% 38 88.0% 92
85.7% 42 54.6% 108 59.2% 76 50.0% 78 96.6% 58
81.2% 80
rs6570507 AB_ASSAYS_ON_DEMAND 6 145.5651 142660142
forward LGD
GACAAATTTTTGATGAACATAAGAGTAGTCACTTTGCTGCTTTTCTGTCTTATCATCAGCAGTTAGGCTCACTTC
AGTGAATTCAGTCCTTGTAGAATAA[A/
G]TCTGCCTTGCCACTGTGACTGCTAAGTTATTTCCACAAACTGTCAGTGCAGCTTGCTAGCTTTTGTCTTTCTT
CTCGTCATTTGTCAGGTCCTTAGAATT A/G 461 0.304 0.081
0.725 0.023 2.5% 198 67.9% 156 94.8% 58 50.0% 80
NA 0 4.5% 66 0.0% 40 2.2% 92
0.0% 42 NA 0 66.7% 78 69.2% 78 94.8% 58
50.0% 80
rs262119 AB_ASSAYS_ON_DEMAND 6 145.6852 142823363
forward LGD
GCTATTTTTATCATTGCAAACCTTTGGGATATTTTTTATTATTTCAAATGTTTGTTCTTTATTGTTGTACTTGTT
CTTCCTTTTCAAGATAGGTCATTTT[C/
T]CTGTATGCTTTGTATTTTTTTTTATTGTGAGCTTCTCTTCAGGAGGGTGTGTGTGTTTGTGTGTATGTTTTAAT
TGGAGTCCCACGTGCCTTGGTTGGTGG C/T extended_map 0.182
0.064 0.520 0.008 12.1% 198 68.8% 154 93.1% 58
58.8% 80 NA 0 15.2% 66 5.0% 40 13.0% 92
11.9% 42 NA 0 65.8% 76 71.8% 78
93.1% 58 58.8% 80
rs9908 AB_ASSAYS_ON_DEMAND 6 146.3227 143641736
forward LGD
TAGTTTTAAAACCAGAATTGGACCTTGGATTTTTATTTTGGCAATTGTAACTCCATCTAATCAAGAAAGAATAAA
AGTTTATTGCACTTCTTTTTGAGAA[A/
C]TATGTTAAAGTCAAAGGGGCATATATAGAGTAAGGCTTTTGTGTATTTAATCCTAAAGGTGGCTGTAATCATG
AACCTAGGCCACCATGGGGACCTGAGA A/C extended_map 0.062
0.001 0.116 0.051 57.6% 198 21.9% 146 18.0% 50
47.4% 76 NA 0 59.1% 66 57.5% 40 56.5% 92
80.0% 40 NA 0 22.9% 70 21.1% 76
18.0% 50 47.4% 76
CV11831063 AB_ASSAYS_ON_DEMAND 6 146.8447 144637592
forward LGD
TCATCCTGGAACTGTCTTTATATCATCTTGGAAACCCTGGAGCTGATTTGAAATACCTCTGGTCAGTTCCTCAGC
ATCAGTTCTGTCTAATGAACACCTA[G/
T]ATTCTTCATTGTCTCCTCACTCTTGGCTCTAAGTTGTCACAAGTAGATGATTATGTCTCATTCCCAAGTAGAG
ATAGGACACATGAGAGTGGGTGGGTGT G/T 1,123 0.237 0.023
0.276 0.030 36.9% 198 100.0% 152 94.6% 56 92.5% 80
NA 0 27.3% 66 47.5% 40 39.1% 92
42.9% 42 NA 0 100.0% 78 100.0% 74 94.6% 56
92.5% 80
rs4305737 AB_ASSAYS_ON_DEMAND 6 147.0405 145032164
forward LGD

CCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCCTGAATGCTGTCGACCAGGCCCGAGTTTTCTTGGCTG
ATCAGCCAATTGAGGCCCCTGAAGA[A/
G]CCAAGAAGAAACCTACAATCAAAAACAGGTGAGACTGGTTTCTCCACTACATCATAAAAACACATGCTAGGAG
AACAAAAAACCCAAAATCAAGTAGGAA A/G 745 0.278 0.490
0.015 0.257 7.1% 198 75.0% 156 0.0% 58 16.3% 80
NA 0 10.6% 66 5.0% 40 5.4% 92
11.9% 42 NA 0 76.9% 78 73.1% 78 0.0% 58
16.3% 80
rs4479957 AB_ASSAYS_ON_DEMAND 6 147.0506 145052500
forward LGD
AGTTCCATTATCCATTCTGTGTTAGCTTAATATTGCTCAAATATCATTTTTGTGGGCCTTTGTCAATAGAAATTA
ATTCTGTCTCTCTTGGATTGCAAGT[C/
T]CTGTGCTGAATAGTGAGGGTCTATTCCCAAGCAGCTTCCATTCTTTACTGGGAACGTCAAGAATGTGGATGCT
CATAATTACAATTTCTAAGTGCTCTTA C/T extended_map 0.262
0.465 0.015 0.237 7.1% 198 72.7% 154 0.0% 58
16.3% 80 NA 0 12.1% 66 5.0% 40 4.3% 92
11.9% 42 NA 0 73.1% 78 72.4% 76
0.0% 58 16.3% 80
CV2495445 AB_ASSAYS_ON_DEMAND 6 147.7077 146563178
forward LGD
TGTTTTGTGGATCTTCTAATCTGGAGCATAGAGTGAAGGGAAGGAACTGTTTAAATGTGCCAGTTCAAACAGGAT
AGATGTTGTGGTTCTCAATTTCCCA[A/
G]AAAATGCTCTTTAACATGGAGAAAAAAAAATCAAGATTTTCTAAACTAATTCTGACTGTAAACCATTGTCAATC
TTGGATAAATCTTCATTAATTTAACAT A/G extended_map 0.198
0.005 0.219 0.008 86.1% 194 25.6% 156 32.8% 58
16.3% 80 NA 0 90.6% 64 87.5% 40 82.2% 90
92.9% 42 NA 0 29.5% 78 21.8% 78
32.8% 58 16.3% 80
rs362949 AB_ASSAYS_ON_DEMAND 6 147.7695 146632924
forward MIT
TCAGGGAAGGAGTCTCAGAAGAGCAGCTGATAGGGGCTGCTGCCCTGGCAGCATTCAGAGAGGAGCAGGAATGGA
TTTCCAGTCACTATTGGAAATGATC[C/
T]ATGAGCTATACTGGGCTGTTTGGTGGAATGTGCTTGTCTCATGCCCTCTTAGAGCTATAGCTCACCACGGCCA
TGGCTCTGAGAGTTTGTGCCAGCCCTG C/T 1,341 0.22 0.063
0.128 0.017 27.3% 300 92.1% 252 69.6% 56 82.1% 78
19.1% 110 33.9% 62 28.9% 38 32.2% 90
34.2% 38 94.6% 112 85.7% 70 94.3% 70 69.6% 56
82.1% 78
CV1339301 AB_ASSAYS_ON_DEMAND 6 147.897 146853255
forward LGD
TCCTGAGCTGGAGTGATCTGCCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGGCGTGTTCTTCTGGACACTCA
TGCCCTCTGTCTGCTCTGTATGCCT[A/
G]TTGGGTGATTTGCTCTACTTGCCAGCTTTGCTGTAAAAAGACGAAAAAAAAAAAAGGGGCAGTAAGTATAACT
GCTTATGCGAGTGTGCATTTTGGTGGA A/G 106 0.361 0.038
0.242 0.157 0.0% 198 66.2% 154 43.1% 58 20.0% 80
NA 0 0.0% 66 0.0% 40 0.0% 92

2.4%	42	NA	0	69.7%	76	62.8%	78	43.1%	58
	20.0%	80
rs420430	TSCAF	6	152.5054	149766109	reverse MIT

GGAGTAGGGGATGCTTTCCTGAGGAAGTGAGGATGAAGCTGGGATCTGAAGGCGGAAGAGGATGTGGAGTGATCT
AATTTGAGGCCAGGTTCTGTCTCAC[A/
C]CATGGCTGAGTCCAGTTGATTTTGCCTTCTCAATATCTCAAATCTATCCACTTGTCTCCCTCCAGCGAAACCC
CACTGACCCCACTGACTGAGTCTGAGG	A/C	1,685	0.188	0.071
0.057	0.188	97.3%	296	50.4%	262	81.0%	58	95.0%	80
	98.1%	106	93.3%	60	100.0%	40	97.8%	90
97.4%	38	51.8%	110	42.1%	76	56.6%	76	81.0%	58
	95.0%	80
rs909792	AB_ASSAYS_ON_DEMAND	6	152.5356	149794702
	forward LGD
ACTGTGAAAGAGCTATGGAGTGAAGCCTTGAGCCTGGAGGATGGGTTGGCAGGCCATGGGGCAGCTGTCTGCATG
TGATGCAGTGTTGCCTGTGCCTGCC[C/
T]GTGCTGGGGTTGTGCAGTGAGAAGGACATCTAGGACAGACCTAAAAATTAAGCATGTATCATGGTCATGCCTG
TCGTGTTATTTCCTGTAAACATATGCC	C/T	extended_map	0.286
0.349	0.004	0.363	12.8%	196	85.3%	156	17.2%	58
16.3%	80	NA	0	14.1%	64	12.5%	40	12.0%	92
	9.5%	42	NA	0	87.2%	78	83.3%	78
17.2%	58	16.3%	80
rs6936395	AB_ASSAYS_ON_DEMAND	6	152.9314	150169725
	forward LGD
ATTCAATTTTAATCTGAAAAGTTGTAGAAAACCTGGAGTCCAGAAAACAAAACATTAAAGTAATTCTGCTAGGAA
TAAAGTGGCATAATCCATTTTGAGA[A/
G]AGTAAGCCAAAACATGAAATTGTTTTGAGATGCTATAGTTGAATTTAACAAGGAGCCCAAATTACGGAATCTC
AGGCTCAGATGCTGTGTTAAGAGGCAT	A/G	extended_map	0.182
0.257	0.000	0.210	89.5%	190	33.8%	154	91.1%	56
86.3%	80	NA	0	85.5%	62	97.5%	40	88.6%	88
	95.2%	42	NA	0	33.3%	78	34.2%	76
91.1%	56	86.3%	80
rs505358	AB_ASSAYS_ON_DEMAND	6	154.8992	151358839
	forward LGD
CAATGGTTATAAATGAAACTTTTCATTAATATATTTGTGTCCAAGTGTTTTTAGATGTGCTTTTCTGCTACTCTC
TTTTTATTTGGTTTGGAGATAGATG[A/
G]TGACTTTCCTTCAGTGCCTTCTATGTGTCTTGACATGTTAATGTCTCAAACACATGGTCCGTATCATCATGGA
GCTTGCAATCTAACAGGGTAGTTTAAC	A/G	746	0.253	0.000
0.345	0.077	6.1%	198	69.2%	156	70.7%	58	36.2%	80
	NA	0	4.5%	66	5.0%	40	7.6%	92
2.4%	42	NA	0	65.4%	78	73.1%	78	70.7%	58
	36.2%	80
rs2248861	AB_ASSAYS_ON_DEMAND	6	155.8065	151676560
	reverse MIT
AGACCACAGTGGGCACAGCAAAGAGAAGGGTGGGCGAGGAACAGGAGAATCAGGGAAAAATGGAAGTCCAGGAGA
GCTGGCTGGCATGGCACGTAGTTGC[A/

G]CTTTTTGGGCACCAGGGGGCGCGATGCACCACACTCGGGCCCAGAGTGAGCAACGTGAAAACCGCTTCCTTGC
TGGTAACCAGACCTTGTTACAAAAATC A/G 206 0.292 0.009
0.274 0.189 97.4% 194 33.6% 152 44.8% 58 83.8% 80
NA 0 98.4% 64 97.4% 38 96.7% 92
95.2% 42 NA 0 32.9% 76 34.2% 76 44.8% 58
83.8% 80
rs756009 AB_ASSAYS_ON_DEMAND 6 155.8572 151694280
forward MIT
GGGTTGGAATGGACATGGCTGTGGCTGCGGTCAGCTGGGGAGGTGGGCGGCAGGGCAGGTCGAGGATGACCCAGG
CCTCAAAAAGTCACCAGGATTTAGC[A/
G]AAGTTGCCCTCACTGTAAGGCCTGGAGGCCGGCAAAGTGTGGGACGCAGAACAGAATGGAACAGGCCTCAACA
CTTGGGCTGCGCCATGGGGAGTGTGAA A/G extended_map 0.118
0.011 0.271 0.025 44.8% 310 91.3% 264 98.3% 58
100.0% 80 46.4% 112 47.0% 66 42.5% 40 42.4% 92
42.9% 42 91.1% 112 89.5% 76 93.4% 76
98.3% 58 100.0% 80
CV11556233 AB_ASSAYS_ON_DEMAND 6 156.5927 151951842
forward LGD
GGAGGATAAAATTGTCAGGAACGAGACTGAGAAGAAACAGAGAGAGAGATAGAGAGAGAGCAGAATGAGGCTGTG
GTCAACTATACCAAGTACAGCAGTG[A/
C]GATAATGACTGAAGGAGTGTCCACTATACTTGGCTTTGGAAAATCTGTGAGTCAAGCATGTGCGGATCATGGT
GGTAGTGGGTGAGGGTTCTGAGAATAA A/C 484 0.267 0.056
0.147 0.137 6.6% 198 72.4% 156 44.8% 58 28.7% 80
NA 0 3.0% 66 2.5% 40 10.9% 92
16.7% 42 NA 0 70.5% 78 74.4% 78 44.8% 58
28.7% 80
rs2763010 AB_ASSAYS_ON_DEMAND 6 158.086 152530064
forward MIT
CAAACTGTTTTTGAGTGTTAATACCAACAGACACTAATATCTTGGCTTCAATTTTTTTTATGAATGGCCTTTTTC
TTTTTCCTTCATCTTATTAGCACTT[C/
T]CCAGTTGACAACTGCCTTTTTCTATGTTGCCAAAATTACCAAACCTTGATGTTATTTTCCTTTACAAAAGAGA
CGCCACAAAGAGGAAAACTCAAAAGCC C/T 1,036 0.236 0.005
0.240 0.035 96.1% 178 38.3% 154 46.3% 54 60.5% 76
NA 0 100.0% 64 96.4% 28 93.0% 86
87.5% 40 NA 0 42.1% 76 34.6% 78 46.3% 54
60.5% 76
rs911191 TSCAF 6 162.76 155183301 forward MIT
CCTGAAGAAAAAGTACCTCATCTTATAGACCACCAGATTTCTTCTGGTGAAAACACCAGATCAGGTAAATAATAA
TAATAAAATTTAAAAAAAGAGGTTG[C/
G]CTCTCTGTATTTGGTGTTTAATTCTGGGGTGGCATGCGTTTGTAACCACTTCAATCTACAGATGCTGAAATGT
CGCACTTTTTTTTTAAAAGAGATCACT C/G 1,500 0.13 0.002
0.150 0.203 11.0% 272 57.1% 240 52.6% 38 7.8% 64
17.6% 102 7.1% 56 13.3% 30 4.8% 84
23.5% 34 48.1% 108 70.7% 58 59.5% 74 52.6% 38
7.8% 64
rs335394 AB_ASSAYS_ON_DEMAND 6 163.9713 155685996

forward MIT
AGACCAAGTTCCTTAATTTTGTATTTGTTGTTTTATTTTTAGAAAGTCATTTTGTTTTTAAGATCATGCCACAGT
ATTTTCAAAGGCCTTTGTAAAGAAA[A/
G]ATACCATATGCATTCGAAGTATTATTAGTTAGTTATCTGGGGTTAATTCTGGACAAATGTTTCTAAGAAAGAT
GAACATAAGGAAATAGACACAGAGAGA A/G 1,136 0.122 0.197
0.000 0.038 25.0% 188 74.7% 154 22.4% 58 52.5% 80
NA 0 23.4% 64 8.8% 34 32.2% 90
15.8% 38 NA 0 69.7% 76 79.5% 78 22.4% 58
52.5% 80
rs162992 TSCAF 6 164.0843 155744316 reverse MIT

ATGCATATCCCATATATTGTATGATACTCTCAGTAGAGTCTGGGAAGCACCCAGTATTCAAAAGCATTAATGTTT
TATTTTTTCAAACAAAACTATAAAT[A/
G]TAGATATTCAACTTGCATAAAGAAAGATTATAAATAGCCTCACATCTGTTCAGGACACATTATGACATTATGC
TGCCAAGTGGGGTTACAAACAAAAAAG A/G extended_map 0.112 NA
NA NA 27.8% 90 75.9% 112 NA 0 NA
0 27.8% 90 NA 0 NA 0 NA 0
NA 0 75.9% 112 NA 0 NA 0 NA
0 NA 0
rs1017643 AB_ASSAYS_ON_DEMAND 6 165.4911 156825123
forward LGD
TGCAGGAGACCCATTCCCCACAGTTAGGCCAAATGAGGCCAGTAAAAGAATGAGTGTTACCCAAAACACCTGTGG
GCAGAAAGTATTTACAGCATATTTG[A/
G]GCTTTCTCCAAATTTAGGTTCTGATTTGAATAATATCAAAATTAATTTACATTCATTGATTAACTGGTTTAAG
GAAATGACAACATAAGAGTTTACACAG A/G extended_map 0.266
0.000 0.368 0.055 95.9% 196 33.3% 156 30.4% 56
61.3% 80 NA 0 98.5% 66 97.5% 40 93.3% 90
100.0% 42 NA 0 33.3% 78 33.3% 78
30.4% 56 61.3% 80
rs1454436 AB_ASSAYS_ON_DEMAND 6 165.5727 156879901
forward LGD
CTCCCAAGACCTAAGAGTGTTCGCATAAGTAAGTGCAATGAAGCCTCTCTAGTCCCTGCTCACAGTCAGCCTTCT
GGAATGGCTCCTGTGCCCTCCTGCC[C/
T]TCTCACAGCCTGGCCTGTTGGTCTCCTTCACTCTCAGGGACCCTCTGGTCATTGGTCATGCCTGAATCTTGCT
CTCCTGCCTGAACAAGCTCTGCTGCCC C/T 243 0.268 0.006
0.285 0.083 7.1% 196 73.7% 156 65.5% 58 40.0% 80
NA 0 4.5% 66 2.5% 40 11.1% 90
0.0% 42 NA 0 78.2% 78 69.2% 78 65.5% 58
40.0% 80
rs7750371 AB_ASSAYS_ON_DEMAND 6 166.1971 157521106
forward LGD
TAATAATTTAAACATTTATCCAGTTTTCCTCTACACGTTGATCTGATTTTATCCCACCTTGATTAAGTGAAATGC
ATAACAGAGGAGGACTGGCCATTTC[A/
G]CATTGGCTGTGCACCTAGCAGCAGGTACACGTGAATCTGCTGTTACTGCGTTCTGATCTCTCAGAGAGACAGG
AGTGACGCAGAGCGTTACAGCACAGCC A/G 1,247 0.156 0.000
0.271 0.002 51.1% 190 1.4% 148 0.0% 58 2.5% 80

NA 0 50.0% 66 62.5% 40 46.4% 84
52.5% 40 NA 0 1.4% 74 1.4% 74 0.0% 58
2.5% 80
rs509648 AB_ASSAYS_ON_DEMAND 6 168.9503 159560264
forward LGD
ACCATTTGGAGCAAAGTCCCTCACCTATCCTGGAGACACTACTTCTGCCCTGGTGGATGGTCTGCAGCCTGGGGA
ACGCTATCTTTTCAAAATCCGGGCC[A/
G]CAAACAGGAGAGGCCTGGGACCTCACTCCAAAGCCTTCATTGTCGCTATGCCAACAAGTAAGCATTATGTGTC
TGTGGCTGTCTTCTCTCTCTCTTCATT A/G 747 0.188 0.071
0.075 0.196 79.3% 198 18.6% 156 48.3% 58 70.0% 80
NA 0 78.8% 66 82.5% 40 78.3% 92
90.5% 42 NA 0 15.4% 78 21.8% 78 48.3% 58
70.0% 80
rs720694 TSCAF 6 169.4958 159813608 forward MIT

CAGCATTGGCATTTACAGGAGACCAGGGTGGTGAGCAGGACCAGCATGGTGAGTGCAGCTGGCCACATCTCACTC
ACTGCTTTCGTGCTTAAAATAAATA[A/
G]GACGTCTTATCCTAGATTGGTGGATTAGAAATCTAATTCTCAGTGTTAACATTCTATAGTTAGTTCCAAAATG
GAATATTTTTGAGTTAAAACAGTTTGA A/G 1,437 0.135 0.076
0.029 0.003 84.0% 300 34.4% 262 67.2% 58 41.0% 78
81.7% 104 87.9% 66 76.3% 38 87.0% 92
81.0% 42 39.3% 112 37.8% 74 23.7% 76 67.2% 58
41.0% 78
rs963800 AB_ASSAYS_ON_DEMAND 6 169.8206 160059567
forward LGD
AAGGTCTCTTATGGTCTTGTATGTAGTATTGAATCCCCTTGAATATATTGTTTAGCAGTTTTGATCATTATGTAT
TTGCTTCTTGCTCCTCAAAATTGTA[C/
T]GTTAGTTAGTAGGTCCTTCAGCAAAAGAAGACTGAAGATAGTATTTTGGTTTTATTCTTGTTTTTAATTTTTT
TAGTTGTCTCCAACTTTTCTGCCTCTA C/T extended_map 0.04
0.004 0.095 0.001 56.6% 198 27.6% 156 20.7% 58
31.2% 80 NA 0 57.6% 66 55.0% 40 56.5% 92
64.3% 42 NA 0 26.9% 78 28.2% 78
20.7% 58 31.2% 80
rs927450 AB_ASSAYS_ON_DEMAND 6 169.8362 160091384
reverse MIT
AAAACTGTTGACGGACCTGGAGAATCTTCCTGAAGAACTTTAAAGTTGATTGAAAGAATCATTAAATCCTGGAAA
CCTACATTAAGACTTTGCAGAGATA[C/
T]GCGGATGGGTCAGATAAATCAGAGAAGGTAAAGAGTGTAGGCCCCAGAGGTGGGGCAATAGAGAAGGAAAAAA
ATTGCATAACAGTGCAATTTCAGGAGA C/T 1,747 0.1 0.029
0.284 0.105 85.4% 288 44.0% 248 24.1% 54 81.4% 70
86.5% 96 84.8% 66 87.5% 40 83.7% 86
85.7% 42 39.3% 112 51.4% 70 43.9% 66 24.1% 54
81.4% 70
CV3115491 AB_ASSAYS_ON_DEMAND 6 171.7678 161817180
forward LGD
AATGTGAAAGTCTAGGATTTATATGTTACAGACATATTTAATATTAATTTAAAGCACCAGAGCAGAATGAATTGT

GCATTCCAATTTTTTAGCTCTATCA[A/
T]ACACTCTTTAATCAAGGATTTTTCAAGAACTTGCTTTGTGCTAGCAGGACCTGATTTTTCCCCTCAGGAAGCT
CACAGTTTAATTAAGGAGAGCTCATAT A/T extended_map 0.156
0.042 0.066 0.000 96.0% 198 51.9% 154 75.9% 58
53.7% 80 NA 0 100.0% 66 100.0% 40 91.3% 92
97.6% 42 NA 0 62.8% 78 40.8% 76
75.9% 58 53.7% 80
CV2529871 AB_ASSAYS_ON_DEMAND 6 172.0539 161977853
forward LGD
GAAGTCAATAAATATTTAAAAACAGAGCATAGTAAGCAGAGATGACAAGTGCAGCCACCACCACAGCTCAGTCAA
TTAAATCCTGCTGCCAGCACAAACT[G/
T]CCTGTGTTTAAAAGTGCAACTGGGTATGGGCCCATACTCAGAGAGTATATTCCTTGTCAACATTTTTTTTTTT
CAATAGAAATAGTAAGAGTTTTCAGAT G/T 1,125 0.138 0.107
0.523 0.012 10.1% 198 57.1% 154 91.4% 58 70.0% 80
NA 0 12.1% 66 2.5% 40 12.0% 92
9.5% 42 NA 0 55.3% 76 59.0% 78 91.4% 58
70.0% 80
CV2197949 AB_ASSAYS_ON_DEMAND 6 173.36 162524894
forward LGD
TCTCAAGAAAATGGCAGTAGCAGCATTTACTTACAATTTTAAATTCCTTCTACTGGCTGATACTGATGCCCTGAA
ATGGTTTCGATCAACCGTCTTTAAG[G/
T]AGACCCCTTTACATATATATTGTATACAGTATGCAAATTCTAAATGTAAACTATCAAGAATAATACATGTATA
AAAAATAAATCATCAAAATTTTAAGTT G/T extended_map 0.097
0.085 0.007 0.037 84.7% 196 43.4% 152 77.6% 58
66.2% 80 NA 0 87.9% 66 82.5% 40 83.3% 90
73.8% 42 NA 0 37.2% 78 50.0% 74
77.6% 58 66.2% 80
rs1010549 AB_ASSAYS_ON_DEMAND 6 176.5882 164401671
forward MIT
CCTCTTGAGCCATGTGGGCTGGGTCAGGAGTCCAGGCTGTGCTGTGCTGCTGAGAAAAGCTCTTTCAGCCCTGTG
GGGAATCTGTCCATCACCTTGCCTC[A/
C]TTAGCTTGTGCTTCCACCAAAAGACTTAACCTGTTCCACAAGGGTGCTGAACCTAATGACATGTAGTGTGCAG
ATGTCTTGAATATCATAACAGTTTCTA A/C 1,687 0.088 0.028
0.037 0.000 78.6% 290 37.6% 234 57.7% 52 37.5% 64
82.4% 108 66.7% 60 78.9% 38 82.1% 84
75.0% 40 38.4% 112 37.5% 64 36.2% 58 57.7% 52
37.5% 64
rs206734 AB_ASSAYS_ON_DEMAND 6 176.6029 164413245
forward MIT
GTTCCATGAGCATCATCCTGAATACCCTCCCCAAGGAAAATTGGATGTGTGGAGGGGGAATCTCAGCCAGGGAAT
CTGAAGGTGTGAGTGTGAGCTGAGC[A/
G]TTTTCTCTCTTTTTTCCTATAAGGTATGGAGTCAGGATGTTCTTTCTTTCCAATTCTGTCCAAGCTGAATGCA
AGAGGGGAGGGTGGGAAGAGACAGCAA A/G extended_map 0.091
0.034 0.038 0.021 63.0% 184 19.9% 156 39.7% 58
35.0% 80 NA 0 59.4% 64 70.0% 30 63.3% 90
57.5% 40 NA 0 24.4% 78 15.4% 78

39.7%	58	35.0%	80
rs793979	AB_ASSAYS_ON_DEMAND	6	176.9379	164675864
	forward MIT
TATTAAGGATCAGTTTTACTAGTGAGACTCAAACTGCAGATGTATTGCCAAACCTCTGCAGGTCTCCTGAAGGTC
GCAGTCACTTTGAGCAGCTACTCTC[C/
T]GGCCGTTTCTTTCACAGTACGCTCTCTGAGATTGGCCTGGGAAGATTCTTCCTCAGAATAAGTTTTCATTAGC
TTTCTACTTCTTTCTTGCTGCTGCCCT	C/T	404	0.204	0.006
0.385	0.002	22.7%	176	86.0%	150	92.9%	56	82.4%	74
	NA	0	16.7%	60	28.6%	28	25.0%	88
36.8%	38	NA	0	81.1%	74	90.8%	76	92.9%	56
	82.4%	74
rs499253	AB_ASSAYS_ON_DEMAND	6	178.4077	165828224
	forward LGD
TTAAAAGTTAAATCAATAAATATATAACTACTCACATTTCTTATAACAAGAAACATACAAACATAATAAGCCAAC
CACTGTATACCATTTTGTGATTAAA[C/
T]ATACACTGATCCAACTTTCAAATAAAATGATGATGAGAGCCAAAATATTACTAATATGATACTTTTTTAAAAA
GTTCAAATAAATATGCAGCTAGGTCAC	C/T	802	0.255	0.017
0.227	0.000	90.4%	198	23.7%	156	37.9%	58	23.7%	80
	NA	0	97.0%	66	92.5%	40	84.8%	92
92.9%	42	NA	0	21.8%	78	25.6%	78	37.9%	58
	23.7%	80
rs909635	AB_ASSAYS_ON_DEMAND	6	181.5978	166795628
	forward LGD
GGCTGATGCTGGAATCACGGCTGGCTCGCTACGGGATGCGGATGACACGCACTGAAGGCCTTCCTCGGTTCTAGA
GGACTGCTGCCACTCATCTAGATCA[C/
T]GAAGCACTGACAAGAACAGGGACAGAAACTGTGAGCACAGAAGGCCGGAATTCCCTCCTGTCAGGCTTAGCAA
TTTGTCGTTAAGTTCCTTAATGCAGGG	C/T	601	0.232	0.078
0.082	0.054	2.5%	198	57.1%	156	24.1%	58	29.5%	78
	NA	0	0.0%	66	0.0%	40	5.4%	92
2.4%	42	NA	0	50.0%	78	64.1%	78	24.1%	58
	29.5%	78
rs2281144	AB_ASSAYS_ON_DEMAND	6	182.3521	167001132
	reverse MIT
TTTATTTAGCGAAAAGAAGGTTTTGAGCTAAGCTGTTGTAGAAGGCAACCTTCTGCGGTCAGTGGGCTTGCAGGG
CGGCTTGTGGAATCCAGCTTTCCCA[C/
T]GATTTGGTTCCCCGTGGAGGGTGGAGGCCCAGTCAGGGGGATGAGAGATGTTCTGAGCCAGGATAAGCGTGGA
AGAGCCTCGTGAGGAGCAGAGAGGATT	C/T	extended_map	0.108
0.003	0.136	0.011	46.1%	178	90.7%	150	87.5%	56
82.5%	80	NA	0	41.7%	60	39.3%	28	51.1%	90
	52.5%	40	NA	0	94.6%	74	86.8%	76
87.5%	56	82.5%	80
rs4710081	AB_ASSAYS_ON_DEMAND	6	182.4506	167031342
	forward LGD
AAAGAAACTGCTTTATCAGGTTGTTGAAAACATTTAGGATGTTAAAAATAATTTCAGTATAAACAAAAATGCTTT
CTTCCTTGCAACTTCCATTCCTCCT[A/
G]CCTTGGAACCCTGGCAAAAGCTAAGAAGTTAGAAGACATTCCAAGACGTTTCGCAGGTCCTGAGAAGGTACTT

ACACACCCGCTGAGAGTTCTCGTCACC A/G extended_map 0.177
0.000 0.267 0.005 84.7% 196 27.3% 154 25.0% 56
20.0% 80 NA 0 93.9% 66 75.0% 40 82.2% 90
78.6% 42 NA 0 26.9% 78 27.6% 76
25.0% 56 20.0% 80
rs880900 AB_ASSAYS_ON_DEMAND 6 182.4961 167048767
forward MIT
CATCACTTGTGATTCCCCAGCTTTGAGAGGAGCTCACAGAGGCAGCTTTTGGGGAACCGACAGATTTACTAAATA
GCACCATGCTGAATTTGAAACAGCC[A/
G]CGCCCCAGAAGCTGATCAGAAAAGATTGTTTTCAGGCCAAGAGTAAGATGTAAGAATGTGCTGTGAACCTTTA
TGATTCTGTGAAAACACGTGGCTTTTA A/G 1,583 0.146 0.000
0.217 0.000 78.5% 298 25.0% 268 24.1% 58 24.4% 78
78.8% 104 90.6% 64 73.7% 38 71.7% 92
80.0% 40 26.8% 112 20.5% 78 26.9% 78 24.1% 58
24.4% 78
rs2345674 AB_ASSAYS_ON_DEMAND 6 182.8477 167177414
forward LGD
TTCTTGGCTGAATAAATGAATGGGAAAACTGCTGCTGACTTGAATGATTTTTTTCCTAAATAAGATGACTTTTTA
TCATATATGTTCAGACTGGCAAGAG[A/
G]CATGAAACGTTTATCAGTTTAGTTGCCACAAAATTTCTTTCTTTTTCAAAATAACAACAGATGTTGGCAAGGA
TGCAGAGAAAGGGAACGCTTATACACT A/G 258 0.261 0.018
0.262 0.069 80.3% 198 9.6% 156 20.7% 58 35.0% 80
NA 0 81.8% 66 75.0% 40 81.5% 92
90.5% 42 NA 0 9.0% 78 10.3% 78 20.7% 58
35.0% 80
rs926263 TSCAF 6 185.2323 167944804 reverse MIT

GGAGGTGAGCTCTGTCCATGTTTTCAGAGTAGAAAGTGATCTATGATACAATGAACTGTTTTTAGCTTCATGAGT
TAGAAGTAGGAAGAGGAGAATGTAT[C/
G]AATTTGTTAACTGCCTTTTCCTGTTCAAAAAAAAGCTTTTTCAGCAAAACATAGTCCTTAAGTTTAAAAAGTC
AGTGTTTATTATCTGACAGATATGTTT C/G extended_map 0.1
0.007 0.094 0.011 72.6% 296 27.6% 232 36.4% 44
39.1% 64 71.4% 112 75.8% 66 75.0% 36 70.7% 82
83.3% 36 22.3% 112 25.9% 54 37.9% 66
36.4% 44 39.1% 64
rs1871423 AB_ASSAYS_ON_DEMAND 6 186.0289 168401286
forward LGD
ATGGTGAGTGGCTTGGAGGACACCCTCCATGTGGAGCTCAGGGCCACCACCCCGACAAGGCCTGCAAGCGTGGGC
TTGTGCCTATCACTCATGCCTTCCC[A/
G]GCTACCTCGGCCCAGTGAGAGTTGAGCACTGCGCTGAGCGCTCACAGCTGGGTCCCAGGATCCAGCTCCGTGA
GGCTGCCCAACGCAGAGCAGAGGGCAG A/G 1,067 0.242 0.067
0.106 0.134 94.9% 198 34.6% 156 65.5% 58 77.5% 80
NA 0 100.0% 66 90.0% 40 93.5% 92
83.3% 42 NA 0 26.9% 78 42.3% 78 65.5% 58
77.5% 80
CV2455470 AB_ASSAYS_ON_DEMAND 6 188.3476 169735665

forward LGD
GGTCTCTCACCAGCACCCTCGGTACACGGCAGCAGCCAGAGTCTGCCTCCTGGCTGAGCCGATTTCCATGAGTTT
CTCCTCCTGATTGCAAAGACCGTCG[C/
T]AGGCTTGGTGTCAGTGGCACCAGACATGCTTCTGTGACATTTCTCCACCAGGTTAACAACAGTCAATAGTGAA
CTGGCCATTCCCAAAACCCGCTTACTC C/T extended_map 0.198
0.255 0.000 0.235 9.8% 194 67.8% 152 10.3% 58
12.5% 80 NA 0 6.1% 66 2.5% 40 15.9% 88
26.2% 42 NA 0 68.4% 76 67.1% 76
10.3% 58 12.5% 80
rs3055 AB_ASSAYS_ON_DEMAND 6 188.4619 169823021
forward LGD
CCTCAGAAAGAATGTTAAATCTTTGAGAAGATATAACAATAACTCTACCAGGTCACCAAAGTATCTGTATATGCT
TTAAGTGGCATTTTCATGTCACTTA[C/
T]CGCATGGAAGAACGCTCTCCTTTTAATTCCCTAACTCTCTTCTTCTGGGAAGACAGAACGTGCACAAGGGGAG
CAAAGCGAATGCAGGAAACCAGTGCCC C/T 339 0.222 0.301
0.000 0.452 89.4% 198 26.9% 156 89.7% 58 98.8% 80
NA 0 89.4% 66 95.0% 40 87.0% 92
90.5% 42 NA 0 23.1% 78 30.8% 78 89.7% 58
98.8% 80
rs3807064 AB_ASSAYS_ON_DEMAND 6 188.5248 169875800
forward LGD
TGGTCTACCAAGTCAAAAAGGTATGTGAAAATAACATCTTTTATACACTGGGAAGAACGTAGAATCACAATTGCT
AAGAACGAAGGCATTTTTAGTTTAA[A/
G]GGACCTATGAGGGCAAAGCAAGGTGATGATGGTATCAGCTCTGACTTCTTTCTCTTGGGCTTAAAATGCATAG
CCAGTATTTCATCCACCCAAAGAATAA A/G extended_map 0.208
0.242 0.002 0.393 92.9% 198 35.7% 154 91.1% 56
100.0% 80 NA 0 95.5% 66 97.5% 40 89.1% 92
95.2% 42 NA 0 30.8% 78 40.8% 76
91.1% 56 100.0% 80
rs742813 TSCAF 6 188.6763 170002904 reverse MIT

ATGCCGTACCCCTGGGGACTTGCTGGGAGGTGATGGAGCAGGGAGGGCTGCATGTTGATTCCCCAAAATCATAAG
CCCTGGAGGCAACCATTCAAGAATG[C/
T]GTGGTTTCCCCAGGCACAGGGAGCAGGAGAGGGTGCAAGGTGCTGTTCCCTGGGGCGACCTCTGCAGGGCCCC
ACACCCTCCTCAGCCAATGAGAGCCCA C/T 1,565 0.129 NA NA
NA 57.4% 94 100.0% 96 NA 0 NA 0
57.4% 94 NA 0 NA 0 NA 0 NA
0 100.0% 96 NA 0 NA 0 NA 0
NA 0
rs924039 TSCAF 6 188.9334 170218629 forward MIT

CCACCGTATTTTCAGTTTGCTTCGAATTATTAAAGTGGCTCAGGGAAAAAACTTTAATCTGAAAATAGTGGCCAA
CACGAGACAGGACGCCGATTGCTGC[A/
G]TGAGTAAGAGGAAGCACCGCAGACCACCGCCGACGAAATTCTGGATTTTTTGAGGAGGGATTTCCTGAAGCGG
GTGTTGAATATGGGCATGAAGCCACGA A/G extended_map 0.134 NA
NA NA 70.0% 100 17.6% 108 NA 0 NA

```
        0       70.0%   100     NA      0       NA      0       NA      0
        NA      0       17.6%   108     NA      0       NA      0       NA
        0       NA      0
rs748593        TSCAF   6       189.1353        170388083       forward MIT

CTTAGGTTTTCAGAGAAGTATAATTTTGTGAGAAAGTTGTTGCATTTGGACTTTTAGCCTGGGAACAAAAAGAAA
GTCCAGTGGACTGTGTTAGCACGCT[C/
T]GGGAACCCGCGGCAGGCGAGTGGCTGTCTGGCACACCAGGCATCGATCTCCGCAAAACGAACTGGAAAATGCT
CTTCCCCAGAAGCGCAGCACCTGAGCG     C/T             583     0.214   0.011
0.204   0.041   11.8%   306     73.3%   266     62.1%   58      50.0%   80
        12.0%   108     7.6%    66      12.5%   40      14.1%   92
16.7%   42      70.5%   112     79.5%   78      71.1%   76      62.1%   58
        50.0%   80
CV71829 AB_ASSAYS_ON_DEMAND     7       4.4551  1237705 forward LGD
AGACGGCTGGAACTGGGACACAGCCCCAGCCACCGCTGCAAACCTGCAGGCTGTGGGATGGGGGCTGCAGGTTGC
CCACCTCCGAGACATGGCATCCTCC[A/
G]GGGTTTAATCTTCTCTTATTTGAAGCCTCAGAATTAAAATCAGGTATACCATGGCCCGGCTCCAAGACACACA
CCGTGGGCCAGGCACACAGTCGGTGCC     A/G             866     0.146   0.200
0.002   0.000   57.1%   196     5.8%    156     51.9%   54      5.0%    80
        NA      0       59.1%   66      70.0%   40      50.0%   90
65.0%   40      NA      0       3.8%    78      7.7%    78      51.9%   54
        5.0%    80
rs939948        AB_ASSAYS_ON_DEMAND     7       5.371   1801138 forward LGD

GCACTGGCTGGCACAGAAGAAAAGCATTAGAAAGTTTGTTGTTTGTACCCTTTCAAGAACCTGTTTTGTCACCGG
TAGTGAAACAGCAGGCACGGTGTGG[G/
T]TGTGACTTGCTATGACTTTTTAACAGCTGACTCCACCTGCGGGCAAGTCCACTTCATTTCCACCTCAACAAAT
GCGGTGATTAACTGCTGAACAAACAGG     G/T             1,237   0.114   0.012
0.110   0.001   49.0%   198     93.6%   156     86.2%   58      96.3%   80
        NA      0       34.8%   66      47.5%   40      59.8%   92
40.5%   42      NA      0       93.6%   78      93.6%   78      86.2%   58
        96.3%   80
rs7803030       AB_ASSAYS_ON_DEMAND     7       8.522   3822528 forward LGD

CGTTACTAACATCAGCACTTATCAATCTGCAGTGGAAGCTTGTTTGATGTAATAATCCTCTAGACTGGGTTTCTC
TGGGTCATTTGACCTGTCATCCATG[A/
C]ATCTTCTAATGGTATTATTCGAAAGCGGTACTTTTCTTATTTCCTGTGCTTCACTGGTCCCAAACATGTTGCT
GACAGTTTCTAATGCACCTTGGCAAAG     A/C             537     0.173   0.000
0.243   0.007   25.3%   198     84.0%   156     82.8%   58      91.2%   80
        NA      0       22.7%   66      15.0%   40      31.5%   92
7.1%    42      NA      0       84.6%   78      83.3%   78      82.8%   58
        91.2%   80
CV2622071       AB_ASSAYS_ON_DEMAND     7       12.4202 5893110 reverse LGD

GTCCCTGCTGTCTCTGGGCTCTGCACATGCTGTTCTTTTCTCCGACTCTTTTCCAACCTTCCACCTCCAGCCAGT
TCACACTTCCACTTCTCAGTTTAGA[A/
```

C]TTTACTTTCTCTGGGACACTTTCCTTGACATCACCATTCCCCCAAGACGGGGTTAGAAACCCCTCCTCAAGGC
CCCCACAGCACCCTGTGCTGATTTCTA A/C 1,439 0.144 0.000
0.210 0.124 16.2% 198 67.9% 156 69.0% 58 26.3% 80
NA 0 16.7% 66 25.0% 40 12.0% 92
19.0% 42 NA 0 70.5% 78 65.4% 78 69.0% 58
26.3% 80
rs887606 TSCAF 7 13.6165 7132391 forward MIT
TCCCCTTAAGATTAGGAGATGCTAATATGATAATCAGATTCAGGTCACCAAAGGAGACACATTTACCCCTAGGTA
GGGGCAGTGTCAATTAAAATGCCAA[A/
G]CTCATAAGAGATCTCCAGTCTCTGGTGAGTTCTAGCACACTCTCACTCGCTCACTCTCCCTCTCCCTCTCCTC
CTACAAGATACTTTTAAAAACATTTAA A/G extended_map 0.233 NA
NA NA 90.2% 112 25.9% 108 NA 0 NA
0 90.2% 112 NA 0 NA 0 NA 0
NA 0 25.9% 108 NA 0 NA 0 NA
0 NA 0
CV339444 AB_ASSAYS_ON_DEMAND 7 13.6181 7134043 forward LGD

AGATAACCTGGAAATATAAGTGACAGAGAGGTCCTGAAAAACCTTGAATATGATGCTAAAAGGTTTGCCCTTTAT
CTTAAAGAATATGGAGGGCCCTTAA[C/
T]GCATTTGAAGGAGGAAAATAATTGGATCAGAATTACTGTAACTCCACAGTACTGGGCAGATAAAGATTGGAGA
AGAGGAGGCCAATTTGGAAGCCAGGTG C/T 1,098 0.159 0.011
0.328 0.022 17.0% 194 71.9% 146 83.3% 54 86.8% 76
NA 0 12.9% 62 22.5% 40 17.4% 92
5.0% 40 NA 0 81.1% 74 62.5% 72 83.3% 54
86.8% 76
CV1220450 AB_ASSAYS_ON_DEMAND 7 16.098 7982148 forward LGD

ACCACAAGCCAAAATATGGAAGCAGAATACAAGCTAATGGCCTATGGCAGAAAATGTGGTTTGCATAAATGTTAC
CCATTGTCACAAACATCCACCCATC[A/
C]TGCGCTGCACACTGTGCTACTTCACGCTCCTTCTCTTGTGGACTTCTATTCTCTTTCTCCAGGTTGAAGGGAA
ATCATCCACATACCTCCTGAGGTGGTA A/C 145 0.323 0.004
0.337 0.000 98.5% 198 32.7% 156 39.7% 58 31.2% 80
NA 0 100.0% 66 100.0% 40 96.7% 92
97.6% 42 NA 0 41.0% 78 24.4% 78 39.7% 58
31.2% 80
rs735032 AB_ASSAYS_ON_DEMAND 7 16.8331 8248798 forward MIT

GAGCAAATGTGTAATGCGTGTAGTGTTTTTTTTTGTACTTGAATACTATTATTGATAGCTTATCTGGAAATGTTT
TACTCTCCTAAGAATTCATATAGCA[A/
G]GTGTATCACTCATTGGGATGGCATCCTTTATAGCCAAGGATTCATATGCCCATGTTCTGGAAGGCCTGAAAGT
TAGCCTAAGTAGTTTAGACTGTGGACT A/G 874 0.183 0.010
0.153 0.060 4.5% 314 53.7% 298 41.4% 58 25.0% 76
4.9% 122 4.7% 64 0.0% 38 5.6% 90
4.8% 42 50.7% 150 59.5% 74 54.1% 74 41.4% 58
25.0% 76
rs1483205 TSCAF 7 21.8378 10835259 forward MIT

CAAGCCTAGTTAATTTTCTTTTTTTTTTTGTGAAGACAGTCTCTCACTATGTTGTGAGCAGTCATCCTGCCTCAG
TCTCCTGAAGTGCTGGGATTATGGG[A/
T]GTGAGCCACTGCAGCTGGCAAAACCACCTTTTTAATCAGTGTTGAATCTCATGTTGGTTCACTTAAACATATA
GCATTGTTAAATGTGTTCTTATACTTA A/T 1,750 0.054 0.137
0.009 0.168 78.5% 186 46.6% 146 87.9% 58 91.0% 78
NA 0 82.8% 64 90.6% 32 71.1% 90
90.0% 40 NA 0 41.4% 70 51.3% 76 87.9% 58
91.0% 78
rs726297 TSCAF 7 26.8389 13916991 forward MIT
TTCCATCCACATTTAATTCAGAGGAAGAAACAAGGGGGAAATTGCAGCTGCTTAAAGACTCCTCAGATTTAGGGG
ACAATAAGGAGATATTGGAATATTA[A/
G]TATCTGAGATGAATAAATAGGGAGTTGACATTGGAAACAAGGGAGATTCTTTTGAGGAGAAGGCTGGTGTGCT
TGTGTGTGTACCTAATATTCTAAATGC A/G 330 0.227 0.001
0.343 0.011 7.3% 314 67.4% 298 72.2% 54 55.7% 70
7.3% 124 7.6% 66 8.8% 34 6.7% 90
5.6% 36 70.7% 150 70.8% 72 57.9% 76 72.2% 54
55.7% 70
rs1880550 AB_ASSAYS_ON_DEMAND 7 27.885 14518829
forward MIT
AATATCAATAGATATCATCCACATAAACATAAGTTCCTTCAGGTCTTCAATTTTTAAGAGTTCACAGAGTCCTGT
GATCAAAGAGTGAGAAACACTGCTG[A/
C]AGACATTTCTTCATTGCCAGTGGATTCCTGTTCTATCCATAGAGGGCGCTAGAGAGAGACGAGAAGGCACAGG
GGTTGGGGCGGTGGGGTGGGGAGTCGC A/C 562 0.219 0.152
0.040 0.065 21.2% 198 86.5% 156 43.1% 58 60.0% 80
NA 0 28.8% 66 22.5% 40 15.2% 92
26.2% 42 NA 0 85.9% 78 87.2% 78 43.1% 58
60.0% 80
rs6970169 AB_ASSAYS_ON_DEMAND 7 29.1345 15355490
forward LGD
TAAATCACTCTCTATTTTCTCAGATCAGATTTTATTACTTTTGGCCAAAGTCCTTTCCACGACTTAGAAGGCAAA
GATCAGGTAGAACATGATCTTTAAA[C/
G]AAATTGATGGCATACACTTGAGGTCAGAGCATAAAAAACAAATAGTATTTCAGAAGTTATTTCTTTAAAACCC
CATCAAGCTAATACATCTCATTGTTAT C/G extended_map 0.081
0.004 0.086 0.065 60.7% 196 20.0% 150 25.9% 58
48.7% 80 NA 0 67.2% 64 67.5% 40 53.3% 92
59.5% 42 NA 0 23.6% 72 16.7% 78
25.9% 58 48.7% 80
rs956758 TSCAF 7 31.658 17463968 forward MIT
ACCTGGGGAGCTTTGAAAACCCTGGTATCCAGGGACGGGACCCAGACATTAGTATGTTTTTAAGCTTTCCAGGTG
ATCCCAATGTGCAACCAAATTTAGA[A/
G]CTTTAATACAACTGCCTAGCCTAGGATCACTCCTGGAATGTCCTGGGAGGGCATTCTCCAGACCCGGTTATCA
CGGACCCATGGAGAGGGTCAATGGTCA A/G 1,647 0.099 0.042
0.300 0.005 6.0% 184 40.9% 154 65.5% 58 32.5% 80
NA 0 4.7% 64 3.3% 30 7.8% 90
10.0% 40 NA 0 43.4% 76 38.5% 78 65.5% 58
32.5% 80

rs7781217 AB_ASSAYS_ON_DEMAND 7 32.0723 17807112
forward LGD
CACTGTGATCTAGATTGACCAACAATTGTATGAAGATAGCTAGGAAAAAACTAAGGTAGGAGTCTCATCCCCACT
TCGGAGACTCTGAGTAGACCGCAGA[A/
C]GTGGTTGCCAAGGCAGGATATCAGGAAAGCATCTCCATAGGGACTTTGTGATAGCAATTCTCTGATAGAGTTG
ATTCAGTTATGTACCTCTTTCCAGTAA A/C 1,260 0.152 0.011
0.137 0.013 17.9% 196 71.8% 156 60.3% 58 58.8% 80
NA 0 13.6% 66 12.5% 40 23.3% 90
7.1% 42 NA 0 73.1% 78 70.5% 78 60.3% 58
58.8% 80
rs1406801 AB_ASSAYS_ON_DEMAND 7 36.2327 20997396
forward MIT
TTAGGAAATGTTTTAAACATTTTAGCAAATAATTTCTAAATTTAGAAATGTAGTGAATTTTACATTTCTAGACAA
ATATCATCAAATTACTAAGCCTTTG[G/
T]AAATCAGCCTATGTTTAGAAAGAGAGTAAAAATGTTAGATGAATTCAACACTTAATTTTTTCCCCAGAGTTTC
ATCTTAAAGAGTATTAATTGTAACGAT G/T 2,066 0.053 0.024
0.017 0.033 62.1% 198 28.8% 156 46.6% 58 50.0% 80
NA 0 62.1% 66 55.0% 40 65.2% 92
57.1% 42 NA 0 33.3% 78 24.4% 78 46.6% 58
50.0% 80
rs1023542 TSCAF 7 36.8449 21489377 forward MIT
TGTTGTCAGTGGGGGCTGGCTTGGGTGTAAGGAAAGAAGAATTGGGCAAAAATGGTAGATTATCTTTTTGTCACC
AACTCCTTAAAGGAAACCAGCAACC[A/
G]GCTGTTTGCTCTGCAGGTTGTCCAGCTTGAGGAACTGTTGGCTGTGCGGCACTCGGTCTTTGTAGTTGGAAAT
GCAGGCACAGGAAAGAGTAAGGTATAG A/G 71 0.364 0.138
0.131 0.208 95.5% 332 19.6% 296 62.5% 56 72.5% 80
97.0% 134 98.5% 66 97.5% 40 90.2% 92
85.0% 40 22.9% 140 14.1% 78 19.2% 78 62.5% 56
72.5% 80
rs2965404 AB_ASSAYS_ON_DEMAND 7 36.8504 21493818
forward MIT
TAGAAAAGTTTGCTGGCTGCTATATGAATTGTGGTGGCAAGTTCCATTAGATACTGTCACTTTTGGCACAAAATA
CTTCACAGAAGAAACATTCTAGATA[C/
T]ATGCATCAAAACAGTTTTGCTCACAATGCTATTAGATTTACTAGAGCTTGAAAAATTTGCAACTGTTAAATAT
GTCACATCAAATACACAGTGCTTAGAT C/T extended_map 0.366
0.168 0.110 0.243 5.6% 198 83.3% 156 36.2% 58
26.3% 80 NA 0 3.0% 66 2.5% 40 8.7% 92
14.3% 42 NA 0 85.9% 78 80.8% 78
36.2% 58 26.3% 80
rs4722063 AB_ASSAYS_ON_DEMAND 7 37.1432 21637820
forward LGD
AATATATGGACATATGGATGATCCAGTGCAAAGTTAGAATTAGGCATGAGAGTCTCTATATTAAGGCTTTTTAGT
AAGCATAAGTTACTGGGTATATTAT[C/
T]GACCTTGACTGCTTTTGTATGCTTTGTTGCCTAATGAAGTTATTGGCATTGAATTGACCCAGCAGACTTTTAA
GAGCCATCCCTGGGAGGTGATATAGCT C/T 1,568 0.121 0.094
0.014 0.094 80.6% 196 32.5% 154 69.0% 58 68.8% 80

```
        NA      0       82.8%   64      90.0%   40      75.0%   92
97.6%   42      NA      0       28.9%   76      35.9%   78      69.0%   58
        68.8%   80
rs2270108       APPLERA_RESEQUENCING    7       39.0871 22604403
reverse MIT
TTTTGGCCGTCGGGGGAGGGAGAGAAAAATAGGGGACACTGCCGTGCACGGCCCCTGAGGCTGTCTGGTCAAGTG
GGGCCGATCTAACCTGAGTTCGAGT[G/
T]CCCGTTCTATCGCTTTATAGTTGCATGGTCTTTAAGCAGTCTTGCAATCCCTCCTTTTCTATTTTTGCATCCT
TAAAGTGGAGGTCATATTTCTCGGGAT     G/T             extended_map    0.104
0.000   0.150   0.142   25.0%   176     70.8%   154     70.7%   58
26.3%   80      NA      0       25.0%   64      36.4%   22      22.2%   90
        32.5%   40      NA      0       67.1%   76      74.4%   78
70.7%   58      26.3%   80
rs1581498       AB_ASSAYS_ON_DEMAND     7       39.1416 22650515
forward LGD
AAAGACTTGCCATTCTCCCCCACCCCCAAGCTGTCTCTTTCCTCTCTCCTTATCCCAGTTCTGCAGAAAAGGGAA
TCAGGTCAATGTAGTTCTTTAATGT[A/
G]GACATCATCTGTAGCATTTACATGCTTGACACCCAGGAAATAACTATTTTCACTTCCCCACATCTCCCAGTGT
TCAACTTTGCACCACTGTCTCTGCCTT     A/G             1,875   0.101   0.056
0.021   0.019   12.9%   194     53.9%   154     25.9%   58      37.5%   80
        NA      0       18.8%   64      12.5%   40      8.9%    90
14.3%   42      NA      0       50.0%   78      57.9%   76      25.9%   58
        37.5%   80
rs1053962       APPLERA_RESEQUENCING    7       40.77   24445570
forward MIT
ATGTGTTTTAGGTATTTGTGAAGTGTCATTTTGATTATAATCCATACAATGACAACCTAATACCTTGCAAAGAAG
CAGGATTGAAGTTTTCCAAAGGAGA[A/
G]ATTCTTCAGATTGTAAATAGAGAAGATCCAAATTGGTGGCAGGTTAGTATGCTTCTCAGAAGTTCCTCAGCTA
CTTTTCTAATTTTAATCTTAGATCTGA     A/G             1,464   0.169   0.017
0.130   0.262   11.4%   176     65.5%   142     50.0%   44      8.3%    72
        NA      0       10.9%   64      3.3%    30      14.6%   82
2.6%    38      NA      0       65.7%   70      65.3%   72      50.0%   44
        8.3%    72
rs765114        TSCAF   7       41.2086 25058954        reverse MIT
GGTTTGTCTCCTCTGCTCCCACACTAACCAAGCCCTGAACCTACTTTCCTGACAATCCTCAGAACTATGGAATTG
GCAATGAACAGCACTGGCCAAAGCT[A/
G]TCGCAGCTTTCAAGTGCTTTTAGTAAATAATCTCATTCTATCCTCATCACCCTGGGGAATCAAAAGGGGCAGG
TAAGCAATCTATTTTCTCTTCCCAGTT     A/G             1,215   0.195   0.104
0.039   0.145   95.2%   314     43.5%   260     81.0%   58      86.3%   80
        98.3%   116     98.5%   66      92.5%   40      90.2%   92
100.0%  42      37.0%   108     46.2%   78      50.0%   74      81.0%   58
        86.3%   80
rs757180        AB_ASSAYS_ON_DEMAND     7       43.2348 27022249
forward MIT
GGGAGAGGGCTGGGGAAGGCTTTGGGCTGAGGGGATGTGTCCCTGAAGCTTCAGATCTGGAGCCCAAGGGAGGCA
ACCTCCCTCTGAAAAGCCGGTCCTC[A/
```

T]GCTCCATCCAGCCCTCTCCGCGGGATGTAAGCCCTGCTCCGTAGGGCCCGACCCAGGAAGCAGACTAAGTGGC
ACTCCTTGATCTCTCACTCCTACTCGG A/T 238 0.271 0.010
0.305 0.077 18.5% 184 90.3% 144 82.7% 52 62.9% 70
NA 0 17.3% 52 5.0% 40 25.0% 92
10.5% 38 NA 0 90.0% 70 90.5% 74 82.7% 52
62.9% 70
rs6972282 AB_ASSAYS_ON_DEMAND 7 44.9343 28441973
forward LGD
GCTTCCCCAGGTCCCTCAGCTACACTCCAAACTTCAACAATATTGAAGAGCAGCAGTGGCCTTGGAGCAAAAATT
TATTAAAGAACTGCATTGAAATGAG[C/
T]TGAGATGATTGGCAGTTTTGCTTGCCTGTAAATGATGCCAAAAATGTGCTGTGCATAGTATAGCATTGCTATG
ATAGCTTATAGCTTATCTATAAAAACA C/T 1,042 0.132 0.008
0.124 0.016 78.8% 198 27.9% 154 37.9% 58 42.3% 78
NA 0 78.8% 66 77.5% 40 79.3% 92
92.9% 42 NA 0 24.4% 78 31.6% 76 37.9% 58
42.3% 78
rs39061 AB_ASSAYS_ON_DEMAND 7 46.4213 28998536 forward LGD

CCCCTGCCCTTCTTCCTGCTTCTTGCCTCCTTGAGGCTGAGCTCTTCTCTCTCCCCAGCCTCTCAGTGAGCTGGT
TCAGGTCTGTGTTGGTTTCAGATAA[C/
T]GGATGCTTTAAATTTAAGGTAGTGGAAACCGCTGATCTAGCCTGGAAATCACAAGGACCAATTGATTTATCAA
TTTTTCTTCTATAAAGGTAAAATAATA C/T 1,862 0.106 0.029
0.051 0.055 17.3% 196 61.7% 154 41.4% 58 33.8% 80
NA 0 10.6% 66 22.5% 40 20.0% 90
11.9% 42 NA 0 64.1% 78 59.2% 76 41.4% 58
33.8% 80
rs2267716 AB_ASSAYS_ON_DEMAND 7 49.7382 30458915
forward LGD
ACAGATGACCCCAGCCATTCCCAGTAGGACATTGCGGAGCTTGAGGTCAAGGAGGCTGAGGCTCAGCCAAGCTGC
ACTTAGTGGTTCCACAGAAGGAAAA[C/
T]GGACCATGGCCAGGAGGGAGGTGGCAAGACCCTCCTTTGCAGCCAAAAGGACCGTAGGGACAGGCAAGATGAG
GTGCAGGAGGAGGGCAGATAGAAGGAG C/T 1,250 0.207 0.000
0.270 0.012 11.7% 196 72.4% 156 70.7% 58 83.8% 80
NA 0 7.6% 66 7.5% 40 16.7% 90
11.9% 42 NA 0 73.1% 78 71.8% 78 70.7% 58
83.8% 80
rs2107550 AB_ASSAYS_ON_DEMAND 7 50.2032 30660635
forward MIT
GGGTGGGACAGGGAGTTTAGCCTCAGCACTTCTTTCATGACCTGCGAGGCATGTTCATTGCCATCTTCATGAAGG
GACCCACAAAGGAAAACAGCTTGAC[A/
G]GGCAAGAGTTCTGAAAGCTCCATCCTCCTCCCATCCTCCCCAGCTCAGAGATGGCCACCATCCACCCATTTAC
TCAACCAGGAGCACGTCCTCTCCATCA A/G 719 0.265 0.034
0.578 0.010 12.0% 184 81.4% 156 96.4% 56 71.3% 80
NA 0 10.9% 64 13.3% 30 12.2% 90
23.7% 38 NA 0 76.9% 78 85.9% 78 96.4% 56
71.3% 80

rs736556 AB_ASSAYS_ON_DEMAND 7 50.4807 30799340
forward MIT
GCATGCAGAAAATGGAGTGCAGCCCAGGAGGGAAAATGGAAAAGTCCCTTTGGAATTGCCCCACCCACTCTGCTT
CTGGTTCCTTGCAGATTACCAAATT[C/
T]CCAGCACTGTGCTTTTTTGGGGGGATATAGGGGAAGGGCCTTGCCCCACTTCCCTCTTAGTGGAGGGTGGAGT
TTTGTTGTTTTTGCAGTGTTTTTGGCA C/T 172 0.297 0.075
0.717 0.009 6.1% 198 75.6% 156 98.2% 56 85.0% 80
NA 0 1.5% 66 2.5% 40 10.9% 92
9.5% 42 NA 0 82.1% 78 69.2% 78 98.2% 56
85.0% 80
rs1541516 AB_ASSAYS_ON_DEMAND 7 50.6117 30864814
forward MIT
GCAGAACTCTCCTTTCGGGCAGAGTTACCCATCCCAGGAAGTTCATTTCTGACTTTCTTGGCTAAAGAGAACTGG
CCTTAGATCTTCTAATGCAGGAAGC[A/
G]AGGGACACAGATTGGAAAAGTGGAAGGATCTCTTCTCTTGGCCTCTGCCTCCCACAGAGGCTGACCTGCTGCC
CTCCTTGCCTCTTTCCTGAGCTCCCTG A/G extended_map 0.142
0.009 0.152 0.016 39.7% 310 91.2% 262 84.5% 58
81.2% 80 37.5% 112 33.3% 66 50.0% 40 42.4% 92
50.0% 42 91.7% 108 94.9% 78 86.8% 76
84.5% 58 81.2% 80
rs2267739 AB_ASSAYS_ON_DEMAND 7 50.6405 30879169
forward MIT
CCTGTGATAGGGTCTCCCACTTTCTGAATCAGGCTGCTCTGCTCTCCAGACAGCCCCACCCAACACCCTTGCCTG
AGCTTTTAGTCTCTTTTGGATCCAA[C/
G]TCAGAATTTACCGCATCAGTCAGTCTAGGTTCATCCCTTCTTCCTGACTTAATTTATTTTCCCTTTTCCCTAA
TTGTCGTGACTTTTAAGACATTCTGAC C/G extended_map 0.32
0.012 0.589 0.010 83.1% 178 6.0% 150 0.0% 58
12.5% 80 NA 0 85.5% 62 88.5% 26 80.0% 90
68.4% 38 NA 0 6.8% 74 5.3% 76
0.0% 58 12.5% 80
rs34162 AB_ASSAYS_ON_DEMAND 7 51.8232 31470239 forward MIT

GAGAGAACAGATAACTGTCCCAAGTTCACCCAGCTAGAGAGTGGTACAAGCAGCCAAACGTTGGCTTCTACCTTA
TATTGACTCACAGCATCCAATCTTA[A/
C]AGTTGAGAGGAATTTTCTTCCCATAATTTAAACCACATATTCTCACATCCAACTGAGAAAACCGCTCAATGAT
AAGAGAAAAGACAAAAAATCCAGACCA A/C 1,556 0.162 0.022
0.374 0.003 85.7% 196 31.4% 156 15.5% 58 37.5% 80
NA 0 95.3% 64 82.5% 40 80.4% 92
64.3% 42 NA 0 34.6% 78 28.2% 78 15.5% 58
37.5% 80
rs2598392 AB_ASSAYS_ON_DEMAND 7 53.7536 33363114
reverse MIT
TTTTTATGTACAAGAATATGGGCTTAATGTGCCACAGTCATAACGTTTATAGGTGTAAATAAAGTCTCTGGACAT
ACAGTGACCTTCCATTTCGCCAGTG[A/
G]GAAGAACTTACTCTGCTATCATTTAATTCTACTAGAAAAACTACTTATTTTTGAAACAAGTGTCCTATTTTAT
AGTCTTTTTCCCCGAAGCAAGTACACA A/G extended_map 0.307

0.018 0.579 0.046 91.9% 198 19.2% 156 7.1% 56
42.5% 80 NA 0 98.5% 66 95.0% 40 85.9% 92
85.7% 42 NA 0 21.8% 78 16.7% 78
7.1% 56 42.5% 80
rs1985080 AB_ASSAYS_ON_DEMAND 7 53.7571 33369079
reverse MIT
GAGCTCCAAGAAGCAGCTCTGTGGAAACACTACAGAACAAAGAAAAGGAAGGGAGAGAATGGAGGGAAACAAAGG
ATGTGAAAACCCAGAGGGAATGAGG[A/
G]TAAGTGGCTCACTGTACAATCCACAAGTCAGAAGGTATAGGGATGACAGGGTGGTGGCCAGGAGAGAAAATAC
TGAGCTGAGAGAGCTGTTCCATTGACA A/G 431 0.285 0.025
0.572 0.045 8.7% 344 78.5% 302 92.9% 56 55.0% 80
10.3% 146 0.0% 66 5.0% 40 14.1% 92
14.3% 42 78.9% 152 75.0% 76 81.1% 74 92.9% 56
55.0% 80
rs2251288 AB_ASSAYS_ON_DEMAND 7 57.9863 37176781
forward MIT
CAGTCTCAGCTTTTTCGCCTTTACTTATTTCTTCCTTTTATTAATCTACATTCTTTTGTGCACCTTATTGAGTCA
TCCTCAGCTGCACTTCATCATTGCA[C/
G]TCCTTGGTGAGAATAATGTGGGTTTTCATGGTAACATCACAAAGTGTAATCAACAGTGGACCTTGATTCAGAT
AAACCTTTGCTCTCTTGGTGGTTCTAA C/G 925 0.106 0.090
0.008 0.004 14.6% 198 57.7% 156 22.4% 58 50.0% 80
NA 0 18.2% 66 17.5% 40 10.9% 92
23.8% 42 NA 0 62.8% 78 52.6% 78 22.4% 58
50.0% 80
rs2329776 AB_ASSAYS_ON_DEMAND 7 61.7617 40231288
forward LGD
TCATTTACTGTAGTTAACTTATTATGTACAGAAATTACTTATTACTGTGCCTCTTTTGTATGAGAAGGTAGGGAG
CAGAGCTAAAAACCACAGCAAAGGG[A/
T]TGGGAAGGACCAGGGAGAAGCTGACAAATGGAGATAGTTCTGATTGCAGGAAGGGCTGAAACATCTGAGGTGG
GAAAGAGGGGAGCCTTTTAAATGGTGA A/T 1,157 0.124 0.010
0.121 0.003 38.5% 192 87.8% 156 79.3% 58 92.3% 78
NA 0 36.4% 66 52.6% 38 34.1% 88
37.5% 40 NA 0 88.5% 78 87.2% 78 79.3% 58
92.3% 78
CV335336 AB_ASSAYS_ON_DEMAND 7 61.8931 40375095
forward LGD
AATCTCTTACCATGAACTTCTTCCAGGATTATGCACAGTGAGAACAGCTGGGGACACCCCTCCTCTCTTCACAGG
ATTTTAGTCAGGTCCTGTGTGGCAC[C/
T]AACAAGACAATAAAGAAGTAGGACATCATTGGTGAATTTCCCAAATCCCACATTTATGCATGGTCAATGTAAA
ACAGAACACAGTGCAGCTGCTTTGGTT C/T 1,297 0.119 0.020
0.303 0.007 36.9% 198 85.5% 152 96.4% 56 92.5% 80
NA 0 37.9% 66 40.0% 40 34.8% 92
35.7% 42 NA 0 86.8% 76 84.2% 76 96.4% 56
92.5% 80
rs2268572 AB_ASSAYS_ON_DEMAND 7 65.7505 43935331
forward LGD

CAGATCCACCCTCCACGTGCAGCTTATGGGAGCAGACGCAAACCACTTATGCCACAGTGAGTCAGGTGTTTGGCT
TCCTGCAGCCCAAAGCATTCCTAAT[A/
G]GATACAGATCTTTAGTTAAGAACCATGTCTCTTAATGAGGCCCCACATGTAAAATTTAAACTGAGGCAAGGTC
AGAAAGGGATGGGGCTGATAAAGTCTG A/G 1,619 0.098 0.000
0.144 0.009 40.9% 198 85.1% 154 84.5% 58 76.2% 80
NA 0 47.0% 66 35.0% 40 39.1% 92
38.1% 42 NA 0 87.2% 78 82.9% 76 84.5% 58
76.2% 80
rs6463247 AB_ASSAYS_ON_DEMAND 7 66.62 44580396
forward LGD
AAGTTGCCCTGGGGGGAACGGAACAAACACTACTTTTCTTCAACCTTTGCTTCCACAGACTTTTTCATCCCTAAG
ATACTAGAAGAAGAGCATACATAAA[C/
T]GACAAATATAGCCAATGTGATACAGAATGTCAGATACTATGATAGAAACTTGGCCCTTAGCTGGGTGGTTGAA
TTAGGTGCTACTTTTTTGAGATGGAGT C/T 357 0.216 0.161
0.033 0.273 20.2% 198 85.1% 154 39.7% 58 25.0% 80
NA 0 22.7% 66 17.5% 40 19.6% 92
19.0% 42 NA 0 86.8% 76 83.3% 78 39.7% 58
25.0% 80
rs1486169 TSCAF 7 68.7472 45971523 forward MIT
CCATGGACAGGGGAGAGAGACTCCTCTTGGTACCTGGAAGCTGTTGAAGAAGGGCCCCTTACTGTGGACGTCTGC
CCACCCAACCAAATTCTCAAGAGAA[A/
G]ATATGAGTTGCCGCTGGTGTCCTGGGATACCATTCCTCCCTTTCACCATTGCTGAGTTGTAAGGCAAACCTTA
CTCTACACACACCACAAGGCACAACAC A/G 2,053 0.044 0.010
0.124 0.037 42.2% 306 72.2% 266 82.8% 58 50.0% 80
41.8% 110 32.8% 64 47.5% 40 46.7% 92
28.9% 38 76.8% 112 66.7% 78 71.1% 76 82.8% 58
50.0% 80
rs260339 TSCAF 7 68.9328 46215802 reverse MIT
AAAAAATTATCCTAATTTAATTGTCATTTTGGAAGGAAAAAATAAAGAGAAACAACTAGAGCCAAGAACAAAATT
AAATAAAGTAGGTGATCAGAAAATA[A/
G]TATACACTTGCCAGTAATAACTCACTATATAATATAATAGATTGATATTCATATTTTCAACAGCAATAAAAAA
TAAATATAGAAATAATTTAACATGATT A/G 906 0.173 0.089
0.049 0.019 78.0% 304 19.7% 264 53.4% 58 33.8% 80
75.9% 108 84.8% 66 73.7% 38 77.2% 92
85.7% 42 16.7% 108 30.8% 78 12.8% 78 53.4% 58
33.8% 80
rs1554494 AB_ASSAYS_ON_DEMAND 7 70.3737 47868969
forward MIT
ACGGAGAGTGGGCACCGGCCGGGGGCAGGCAGGTCCGGCCCCTGGGGGTCAGAGTGCAGCGCCGGTTTGAGGCAG
TTCGGCCACTTAGCTGCGACTCGAA[A/
G]TGAATGAGTCACTTCCCCTCCTCGGGCGAGCTCCTGGCTTTGCCCCAGCAAGCGGGAACTCCCAGGATCAGGA
AGGTCCCAGAGAAACTCCCNAGGGGGG A/G 1,827 0.079 0.002
0.084 0.013 22.2% 198 61.3% 150 55.6% 54 47.5% 80
NA 0 15.2% 66 17.5% 40 29.3% 92
31.0% 42 NA 0 62.2% 74 60.5% 76 55.6% 54
47.5% 80

rs1477578 AB_ASSAYS_ON_DEMAND 7 71.5842 49547896
forward LGD
CAAAGCCTTAATTTTTACAAGATTCAAGTCTAGTAGGAAAAATAAAAGGCATATTTTATTTTCATATGGTTCAAG
ATGGACCCAGCCTTTGCAGTCTCAA[C/
T]GGGATTGATCACAGGAGCATCCTTGAACATCCAGCATGACCAAAGGATGACAATGCTGGCCAGGTGGGGTCCC
CTGCTGCAGCCGGCAGCTCCAACTGAG C/T 1,416 0.121 0.033
0.345 0.031 35.9% 198 85.1% 154 98.3% 58 67.5% 80
NA 0 36.4% 66 35.0% 40 35.9% 92
45.2% 42 NA 0 88.5% 78 81.6% 76 98.3% 58
67.5% 80
rs2010269 TSCAF 7 73.1521 50864712 forward MIT
GGGCGGCTCAGGCCCTCCCTCCTCCATGAGGTTGGTGTCTCCAGGGGCCCCAGCGCGCATCCTTCCTGGACTCGC
AAAGCCCACGCTACTGCCACTCTTT[C/
T]CTGTTGCACTAATAGCATGTCCTTCCAGCTTGGCGCTCAGCCCCTCAAGGGCTGCGGGAAACTCAAACTCATC
TCTTAACGTCCTCATCCACAAGGCCGA C/T 433 0.193 0.192
0.010 0.053 83.1% 314 22.7% 264 74.1% 58 48.7% 80
87.9% 116 84.8% 66 92.5% 40 71.7% 92
81.0% 42 26.8% 112 18.4% 76 21.1% 76 74.1% 58
48.7% 80
rs1220777 AB_ASSAYS_ON_DEMAND 7 76.0636 54473472
forward MIT
GTGTGTTAGCATCAGCAGCCCCCGCCACCCCTGCAGGACATACCAAGATGCCCTTCACTCTGAGGGCAGCGGGAA
CACACTAAAGGGTTGAACAGGTTGC[A/
G]TTTCTAAAAGGTCACGGACTACAGTGTGTAAGAGGTTGGAAGGGGATAAAAGCAAACGCAGACGGACGGCTAG
AGAGCTACAGACGGGTGACGGGGCGGT A/G 1,677 0.078 0.010
0.071 0.001 40.6% 192 5.8% 156 12.1% 58 7.5% 80
NA 0 58.3% 60 37.5% 40 30.4% 92
38.1% 42 NA 0 6.4% 78 5.1% 78 12.1% 58
7.5% 80
rs812337 APPLERA_RESEQUENCING 7 78.6938 63186274
forward MIT
TGGGAGATCCATAGGGAGGACGGCGGAACATCTGGAGGCTGGGAAATGGTGAGTGCGTGGAGTGGGTGTCCCGAG
AATGGGGAAGAGGCTGTTTGAATCC[G/
T]GCCGGAACCGGCTGCGGTGGTATCTGGGCCTTCTCGCGGTCTGCTCTGGAGTCTGCATCCCCGAGTCCCCGCG
GGCACAGCTCAATCCTCATTTCCCTCC G/T 1,262 0.102 0.000
0.124 0.035 7.4% 176 44.5% 146 42.3% 52 23.0% 74
NA 0 8.3% 60 10.0% 30 5.8% 86
2.6% 38 NA 0 45.9% 74 43.1% 72 42.3% 52
23.0% 74
rs1352081 TSCAF 7 78.8661 64234971 forward MIT
GAAATTAAACTTAGTATTGGGTCTAACTGAAAACACAATTCTTGCTGACAAACATATTGCTAATTTCAAAACACT
TAATTCTCAGATGCCCTAGGAAAAA[C/
G]CATAGGCAGGGGAAGTATCACTGCAAAAGTAGCACACAGAAAGACTCTGGAGGGGCTTGGTCACAAATACTGT
GTTGCCAATATTAGAAAACCCTAACAA C/G extended_map 0.043
0.110 0.006 0.031 40.4% 198 70.5% 156 31.0% 58
50.0% 80 NA 0 30.3% 66 32.5% 40 51.1% 92

38.1% 42 NA 0 70.5% 78 70.5% 78
31.0% 58 50.0% 80
rs1796084 AB_ASSAYS_ON_DEMAND 7 83.0793 70060673
forward LGD
CGTCAAAGAGTGTTCCTGTTAAGATGGTTCCCCCAGGTAAGAGTTGATTCCAGATATTGCTCGCCAAGACCCTGA
GGTCAGACGCCTTGGAGAATTCCCC[A/
T]TGGAGATCCCCCGAGCCAGAAATCCAGTGTCTGTTCCCTTTCTGTAAAAACCAACACACATTGCGCCTGTAAT
CCCAGCACTTTGGTAGGCCAAGATGGG A/T 336 0.226 0.000
0.356 0.001 78.6% 196 12.3% 154 10.3% 58 13.8% 80
NA 0 72.7% 66 85.0% 40 80.0% 90
71.4% 42 NA 0 9.0% 78 15.8% 76 10.3% 58
13.8% 80
rs4719130 AB_ASSAYS_ON_DEMAND 7 83.3734 70378778
forward LGD
CTTTTTGTTGTATACAAATGGCAGGATCTCAACCCTAGATGGGTCTTCTCTGGCCAAAACCCATGTCCTGAGTGT
TGATAGGGACTCTTAGTGCAGGGCA[G/
T]ACAGGCTCTGATCAACACCCCAAGCAGCCCTGCCCTCCACTCTGGCCATGGTTAAGGAAATGTTTACAGTCAT
ATAGAGTGTCACACAGTTTTGCTACTC G/T 2,020 0.057 0.003
0.058 0.019 31.6% 196 66.0% 156 60.3% 58 50.0% 80
NA 0 34.8% 66 30.0% 40 30.0% 90
21.4% 42 NA 0 70.5% 78 61.5% 78 60.3% 58
50.0% 80
CV474770 AB_ASSAYS_ON_DEMAND 7 83.5015 70517312
forward LGD
TTCTCATGGTTACTATTCCACTCCAGTATTGATGGTAAATTTTTAAATCCATCATTTAATATGGTCCCTTTGCAA
GAAAGAAAAGATCAAGATATCCACG[C/
G]AGACTTCTTATTGCTAATGAAAATCAAGCACCTCTTTGGTTCGATTTTCCCTCTTGTAAAACTTGTATTTGCA
GGAAGATTTTTTTGTAAGTCTCTTGAA C/G extended_map 0.151
0.027 0.371 0.013 16.2% 198 69.2% 156 86.2% 58
81.2% 80 NA 0 15.2% 66 12.5% 40 18.5% 92
16.7% 42 NA 0 75.6% 78 62.8% 78
86.2% 58 81.2% 80
CV1251815 AB_ASSAYS_ON_DEMAND 7 83.6592 70550645
forward LGD
TTTTAGATTGGAAGCAAGTGTGATAATAGCATTGGGAAATGGAGAAGATACTTATAATTACCTTGGGTAGTAAGT
AGGACTTTGGGCAGTTTTGCAAGTG[A/
G]GTACTTTGTCATGCTTTTCCAGCTTTCACTAATGTCAGGTGATACTTTCATCATTAGAAGAAAAATAGTTACT
AAAAAGGAAATAATAAACATGATGACC A/G 960 0.194 0.064
0.089 0.113 78.8% 198 17.1% 146 44.6% 56 55.1% 78
NA 0 75.8% 66 90.0% 40 76.1% 92
66.7% 42 NA 0 18.1% 72 16.2% 74 44.6% 56
55.1% 78
rs3898649 AB_ASSAYS_ON_DEMAND 7 87.5295 75158981
forward LGD
ATGTCCTTGTGCTTTAGGGAGGAGCCAGAGAAACAGAGGTCAAGCTCTGGCACTAGCACCGTGTGTGGCCTCAAT
TGAGCATGTTGGGATTTAACTTTCT[A/

G]TTATATGTCAGACTCACTTAAAAATTAAAGTTAGAAAAAGGTGAAATGGAGAAATGACAATTTTCTTTTCTTT
TCTTTTCTTTTTTTGAGATGGAGTCTC A/G 415 0.315 0.072
0.164 0.001 5.1% 196 76.0% 154 44.8% 58 73.8% 80
NA 0 7.6% 66 12.5% 40 0.0% 90
0.0% 42 NA 0 78.2% 78 73.7% 76 44.8% 58
73.8% 80
rs1044483 APPLERA_RESEQUENCING 7 87.6172 75271904
forward MIT
CTCCGCTTTTTTCCAAGTACTTACCCAATAAACAGAGATAGTTGGGGTCTGTTAATCTGGAGAGTTTTGTGGCCT
GATTCAGGATGTTGTAAAGCTCTGT[C/
T]GGTTCACATAAAAGCAAACCAGGCATCCTGCTGGGAAGAATCAATAACACACAAGGGTAACATAACTCTATTT
TAGATGAATGACCACAAAGTAATATAA C/T 1,901 0.119 0.047
0.044 0.065 75.6% 176 26.6% 154 51.8% 56 56.4% 78
NA 0 82.8% 58 75.0% 28 71.1% 90
84.2% 38 NA 0 27.6% 76 25.6% 78 51.8% 56
56.4% 78
rs798318 AB_ASSAYS_ON_DEMAND 7 89.4377 77496921
forward LGD
TCACAGTTCATGGTCCTTCTGAGTATTGTCAAGACTGTGCTTGGGCTTAGTAGGGGTTGAACTGGCTTCCACCTG
CTAGCCTGGAAACCTAAGCACGATT[A/
C]AAAGCGTTGCTTCCATCGTAAAAGCAGGTTTCTTAATTAAATCAATGGGAAACCAGTTTGAGTTCTCCATGAC
CGATACATGAATGAATTTTTGAAACAA A/C 1,319 0.192 0.044
0.095 0.186 93.8% 194 40.4% 156 65.5% 58 88.7% 80
NA 0 97.0% 66 92.5% 40 92.0% 88
92.9% 42 NA 0 46.2% 78 34.6% 78 65.5% 58
88.7% 80
rs798276 AB_ASSAYS_ON_DEMAND 7 89.6173 77543781
forward LGD
AAATTCAAAGAGCAGTTTTTAATGCTTAATTTCATCCCCAAACATCTAGGGAATATAACGTGGTCACCGGGTCTG
TCAGTGTGGTGAATATTTCAAATTT[G/
T]GATCTCAATCTGGTGGGCAGGTGACCTAAAACATACTTTATATAGAACAGGTCCCATCTGAGATCAAGTTGTA
GTTGAAATATGACCTTTAATTTCACTC G/T extended_map 0.17
0.000 0.229 0.118 87.9% 198 33.3% 156 33.9% 56
73.8% 80 NA 0 89.4% 66 87.5% 40 87.0% 92
78.6% 42 NA 0 35.9% 78 30.8% 78
33.9% 56 73.8% 80
rs985895 AB_ASSAYS_ON_DEMAND 7 90.1929 77693947
forward MIT
CTATGTGCTAATAGTTTTGAAAGGTCCCTAAAATAAATAGTTGAAAATATAAAACCCACAGTTCTTAAGTATAAA
AATGTACCTTTTTCTGGGAAAAAAA[A/
C]CAAGTATGCAGTGTTTAATTAATTTTGATAATAAAGACATAATCTTTTCACAGGAGACTTTGTATGTAGAATG
TAAAAAGCAACCATCCCTTTAAGAAAT A/C 1,635 0.151 0.001
0.249 0.017 75.0% 140 19.9% 136 16.7% 54 33.3% 60
NA 0 79.2% 48 72.7% 22 72.9% 70
58.3% 36 NA 0 20.6% 68 19.1% 68 16.7% 54
33.3% 60

CV2790012 AB_ASSAYS_ON_DEMAND 7 91.2278 78322294
forward LGD
CACACTGGTCCACGCTGTGTCATCTCCTATTTGGTCTCTAGAGTAGTCTCCTAATGATCATTCCCACATTCACTA
TCACTCCACTAAAATCCATTGTCCA[C/
T]AGCAGCCGAAGAAACTTTTCCAAACTGCATCTGATCCTGTCCCCAGCCCATCCTCCCCAAAACACACAGTTCC
TATATGGTTTCCCATTGTTCTTAGGAT C/T 96 0.339 0.120
0.133 0.089 6.1% 198 81.2% 154 41.4% 58 47.5% 80
NA 0 4.5% 66 2.5% 40 8.7% 92
2.4% 42 NA 0 82.9% 76 79.5% 78 41.4% 58
47.5% 80
CV9535629 AB_ASSAYS_ON_DEMAND 7 92.6952 79716600
forward LGD
TTCCATCAATGCATCACTGTGTCTTTACCCCTTCCAGGAAGCTATATTAAAAATTGTTAGTATTAACAGGCTGAA
TATGGTGTTTTTTTCCCCTCACAGG[A/
G]TCTAGGTGTGGTGATGAACAGGAATAAGTCTAATTAAATTGTGTATGCTATAACAGTCTGCTAAATTAGAGGA
AAAAAAACCTGCTCTCAGCTTCCTAAC A/G 813 0.222 0.029
0.153 0.105 7.8% 192 68.1% 144 48.0% 50 29.7% 74
NA 0 8.1% 62 7.9% 38 7.6% 92
0.0% 42 NA 0 61.1% 72 75.0% 72 48.0% 50
29.7% 74
rs215274 AB_ASSAYS_ON_DEMAND 7 96.6094 82803921
forward LGD
TGAACTTCCTTTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTTCAGTTGTATGTGTGATGGAA
CCACTATATCAAGAGCGCTATCTTC[G/
T]AAAGTAATATCCTCCCCTAGCTATTCCCTGAAATTGGCAGACATGGACAGTTAAAGCAGGATATCTTTATCCC
AGAGAAACTTTCTTAGACAGCCTGTTC G/T extended_map 0.085
0.107 0.000 0.023 17.9% 196 57.1% 154 19.0% 58
38.8% 80 NA 0 13.6% 66 27.5% 40 16.7% 90
7.1% 42 NA 0 65.4% 78 48.7% 76
19.0% 58 38.8% 80
rs215295 AB_ASSAYS_ON_DEMAND 7 96.6455 82820901
forward MIT
GTCTATCAAATAAGTAGAATTTAGGGTTGTATAGCTGTTCAGTATATTCTGAAATAAACTAAGTCAAATTATGAA
TAAAATTGGCCCACTGACATTGGCA[C/
G]ATATTTCTGCATTTCACTTGTAGCAAGACAACCATTGGTACATGGTAAAAAGTAAGGAAAAAGAAAATGTTAT
TAGCAATGCTAGGTCAATGCAAAATGG C/G 712 0.138 0.114
0.013 0.000 83.1% 166 32.2% 146 72.4% 58 33.3% 78
NA 0 90.0% 60 75.0% 20 80.2% 86
92.5% 40 NA 0 22.1% 68 41.0% 78 72.4% 58
33.3% 78
rs2237547 AB_ASSAYS_ON_DEMAND 7 99.0466 85960066
forward MIT
CACCTGCCTCTGTAAGGCAAGTCTGCATAGTGGGAGAGATGGTGTAGAGAAAAGAGTGTCAAACTAGAAATCAGA
ACACCCGGGTGACAGTAGCATTAAC[A/
G]TTTATTACTTAATTTGTGGCCAAAAGCAATTCAACCCCTCAAAACCTTGGCATTGTACATTAAATACAGAAAG
TTGAAATAAACATTACTGAAAAAAACT A/G 1,404 0.13 0.016

0.307 0.001 73.7% 198 22.4% 156 10.3% 58 18.8% 80
NA 0 65.2% 66 87.5% 40 73.9% 92
71.4% 42 NA 0 21.8% 78 23.1% 78 10.3% 58
18.8% 80
CV11846556 AB_ASSAYS_ON_DEMAND 7 101.9906 90370265
forward LGD
GCAGAGTCAGCTCTGCACTCACTGACTTCTTAGACTCTCCACTATTTTACATTCTTCTCAATCCATCTCCTCTCC
ATTAACTAATTGCTGGTACATATTG[A/
G]CATTCTTATGTTTATCATACTCTTTGTTGAACGTTTCCACAACTCTGTGGATTGAGTAACCATGTGTTAAAAG
TCTTACTTTCAGTTTTGTGGGTTCTCC A/G 986 0.16 0.068
0.053 0.071 18.2% 198 73.7% 156 43.1% 58 42.5% 80
NA 0 15.2% 66 22.5% 40 18.5% 92
11.9% 42 NA 0 75.6% 78 71.8% 78 43.1% 58
42.5% 80
rs42511 AB_ASSAYS_ON_DEMAND 7 103.4768 92436908
forward MIT
ATCTCAGCCTCCCAAAGCCCTAGGAATACAGATGTGAGCCACCACGCCCAGCTTGTTTATTCAGTTCTCTTGACT
TTCAACCTAGTTAGTTCTCTCTTCA[C/
T]TGAGATTACCAGGTAAAGACTATTTATGAATTAGCATAACTTCCTTATTTGTGTTAGCTTTACTTATAAAGGC
GAAGTAAGATGCTTTAGCTTCCCAAAT C/T 133 0.35 0.031
0.246 0.063 0.0% 308 63.7% 256 42.9% 56 33.8% 80
0.0% 116 0.0% 64 0.0% 38 0.0% 90
0.0% 40 61.8% 110 69.4% 72 60.8% 74 42.9% 56
33.8% 80
rs6946441 AB_ASSAYS_ON_DEMAND 7 108.728 98107727
forward LGD
CTTTTTTCCTTGTCTGTTGATATCCATTGCCCATCTGTATTTTGAGCCTGACATTTTCCTTGTTTCATGAGTCCT
TATATATTAGGACTGTTGAACTTTT[C/
G]TATATTGTAAGCATTTTCTGTTTATAAATATCTTTGAATAAAACTGCTGAGTAAATTGTACTTTGTGCTGTTC
TTTTAAATAAGTGAAGTCATAGGCATT C/G extended_map 0.21
0.007 0.243 0.014 74.7% 194 10.7% 150 17.2% 58
20.5% 78 NA 0 71.9% 64 85.0% 40 72.2% 90
78.6% 42 NA 0 5.3% 76 16.2% 74
17.2% 58 20.5% 78
rs219808 AB_ASSAYS_ON_DEMAND 7 108.8149 98192058
forward MIT
GGGCATGGACAGCAGGAGGAGGAGTTTTGAGGACTGCCCATTAGCTAGGTTTGGTGTCTGTACCATCGTTCTCCC
AGTCTCCTGTCTCTCAGGAGCCACA[A/
G]GCTGAGGTTTTAAAATTGGAGACACCATAAGGAAAGTAGTGTTTGGGGTGAACAGTAAATGAAATGTGGGATC
TCAGGTGTCTGTGGTGTAAATGAGAGT A/G 946 0.216 0.008
0.243 0.025 77.3% 198 12.3% 154 19.6% 56 26.9% 78
NA 0 71.2% 66 90.0% 40 76.1% 92
78.6% 42 NA 0 7.9% 76 16.7% 78 19.6% 56
26.9% 78
rs219821 TSCAF 7 108.8218 98198692 forward MIT

GTTTGGATTTTTTAGAATTCCTTGATTTAACATAAAAATTTGGAATGTACACCAGCACATGGCAGTTAAAGCCGA
CTACAGAGACAGCTACACGCACTGC[C/
T]TCAGTGCCTGGCTCCGGGTTGCTTACACCCAGATGTAATTGTTTCAGTCGTCCATGGACACCTGGCTGCCAGC
CTGTGGCCTACCTGTTGCCGGGGTGAT C/T extended_map 0.22
0.007 0.252 0.029 22.4% 170 87.8% 156 81.0% 58
71.8% 78 NA 0 26.7% 60 9.1% 22 22.7% 88
20.0% 40 NA 0 92.3% 78 83.3% 78
81.0% 58 71.8% 78
rs4563816 AB_ASSAYS_ON_DEMAND 7 108.9437 98316857
forward LGD
AGCCAGTCCCAGGGTGGTATTAAGTGGCATTCCCGGAGAAAAGAAGTTGCTCTTAATGCAACCTCACACGTGATC
GATCTTTTGACCATTAGTAACACCA[A/
C]CAGCATATGGAGACATCTTATTGTTCACCTAAACAGCCAGCCTGTTGGCATATATACACACCTGACCCAGAAA
CTAGGTGACAAGTATCCCAAACGTGTG A/C 1,547 0.161 0.010
0.173 0.010 65.7% 198 9.7% 154 17.2% 58 17.5% 80
NA 0 68.2% 66 65.0% 40 64.1% 92
85.7% 42 NA 0 9.0% 78 10.5% 76 17.2% 58
17.5% 80
rs4236541 AB_ASSAYS_ON_DEMAND 7 109.0726 98441836
forward LGD
AGGAGTGCCCAGTCAGGCCCTGGAAGGAGAGGCCAGCTAAGCTCCTGGACCCCTGAGGGCTTCTCTTCTTTTTTA
AGGTTTTGCTGACCCAGACCTGTTA[G/
T]GCAGGTATAAAAGGGGATGGCCAGGCTCGGCCAGTCACCCAGTCTCTTCCAGTGTGGTCTCAGGTAGGAACCT
AGGGGATGCTGGGGAAGATGGGAACGG G/T extended_map 0.356
0.002 0.388 0.003 1.0% 198 70.0% 150 64.8% 54
76.3% 76 NA 0 0.0% 66 0.0% 40 2.2% 92
0.0% 40 NA 0 75.0% 72 65.4% 78
64.8% 54 76.3% 76
rs7792178 APPLERA_RESEQUENCING 7 109.101 98469383
forward LGD
AGGGAAGGCATCGAGTGGGTCTTCATCGACTTTGGCCTCGACCTTCAGGCCTGCATCGACCTGCTGGAAAAGGTG
ACTTGCTTCTCAAAGGAGGGATTGG[A/
G]GAGAGGCCAGGGCCAAGGGATGTCACTGGCACATGCAGGGAGGTGGCACTTGGCTTCAGGGGAGTCAGTGACA
CCACCAGTGACCTTCCTTGGTATGACC A/G extended_map 0.33
0.042 0.244 0.017 7.1% 196 82.1% 156 60.3% 58
68.8% 80 NA 0 13.6% 66 0.0% 40 5.6% 90
0.0% 42 NA 0 80.8% 78 83.3% 78
60.3% 58 68.8% 80
rs2240384 AB_ASSAYS_ON_DEMAND 7 109.2754 98638441
reverse MIT
TGGTGTCTGTCTCTCCTCATGTAGGAAGGCTTAGGGAGGATGAGACAGCCGGTATTGGGCCCTGGGGTTCACAGA
TGGATCTGATGAGACCTTACTGGAG[A/
G]TTGTGTATGCCACCGTGTGCTGTGTCCTGCTTTGTGCACTCGAGGGAAGGCTTCCTAGAGACAGGGTCTTGCT
ATGTTGCCCAGGCTGGTCACAAAACTC A/G extended_map 0.418
0.090 0.245 0.050 95.5% 176 12.7% 150 44.4% 54
35.0% 80 NA 0 100.0% 64 92.9% 28 92.9% 84

97.5% 40 NA 0 8.3% 72 16.7% 78
44.4% 54 35.0% 80
rs883403 TSCAF 7 109.297 98659375 reverse MIT
AGACCAGCTGGCAGCCTCCAGGGTCGTGGGCAGAGAAGGGAGGACTGGCTTCTTGCCCGGGGCCCAGCCCACCCT
GGCACCTACCGTGCTTGCAGAAGCC[A/
G]CGGTCATACCAAGGACAGTCCTTGATCTTGGACTCGGGGTCGATGTGCAGGAAGGGACATTCCTTGTTGCTGC
ACTCCCCTGCAGGGAAACTCAGACGTG A/G extended_map 0.419
0.088 0.253 0.054 94.8% 306 11.9% 260 42.3% 52
34.6% 78 98.2% 110 95.5% 66 95.0% 40 90.0% 90
76.2% 42 11.6% 112 9.2% 76 15.3% 72
42.3% 52 34.6% 78
CV7732253 AB_ASSAYS_ON_DEMAND 7 109.3738 98733834
forward LGD
ATGTCTTTTTTCTTTTAGATTAATTCATACCAAACTGAAATCCTTTGGGCATTGAGAAACCTAGAAAGATCACCT
TTCTTTTCTAGGCTATGAATTCACA[A/
G]GAAGAGGAAGGTGAAGATGGGGTTAGCTGCATAACCTGCTATCCAGTTTTATTAAGAATATTGCCCAGTCGTG
ACTGGGCGCGGTGGCTCATGTCTGTAA A/G extended_map 0.428
0.068 0.290 0.049 4.0% 198 87.2% 156 60.3% 58
65.0% 80 NA 0 0.0% 66 2.5% 40 7.6% 92
2.4% 42 NA 0 91.0% 78 83.3% 78
60.3% 58 65.0% 80
rs1011024 AB_ASSAYS_ON_DEMAND 7 109.4511 98808798
forward MIT
TCACACATGCACATGCCTATAAGAAAGCATTCTCTGGATCCACAGAATTCCAGATTTGGGAATCACTGAATTGAA
CTGCCGGCCATTGGTGGCTGGTGAG[A/
G]CTGTCCTGGCAGTGATGCAGTATTCTGGTCCCTGTGCCAGCACTGATGGGCTGTGGAATCCTCCACCAGTCAT
TCCCTCTCTCCAGCTCTCCATCTCTGC A/G 12 0.471 0.088
0.292 0.057 97.4% 340 12.3% 310 42.9% 56 35.9% 78
99.3% 144 100.0% 66 97.4% 38 92.4% 92
97.6% 42 11.5% 156 9.2% 76 16.7% 78 42.9% 56
35.9% 78
rs3808013 AB_ASSAYS_ON_DEMAND 7 112.8928 103358733
forward LGD
AGAAGCCTCCCATTGTTTTTAATTGCCATATATTTTCCCCAGAGGATAAAATTGCTGAAGAGTTTATTTCTAAAA
ACAGAAAATGCTCTACGAATGTAAA[C/
G]AACAATATGTAAGGTACCAATAGTAAGGTGTGGCATGTGGTGGCAGTAGTGTTACTATGATGCTACTATTACA
ATCACAACTACAATGACAACTACCACT C/G 1,255 0.216 0.221
0.008 0.080 88.8% 196 27.0% 152 82.1% 56 60.3% 78
NA 0 89.4% 66 81.6% 38 91.3% 92
85.7% 42 NA 0 23.7% 76 30.3% 76 82.1% 56
60.3% 78
rs2697025 AB_ASSAYS_ON_DEMAND 7 114.4099 104667683
forward MIT
CACATTTTTTTGAATGCCTACTATTTAAAATCAGTTCCTCTATCTTTCTTAAATAAAGTAACACAAGAAAACACT
TTGAAAAGCCACCATACTACAAAAT[C/
G]GTATTTGCAGTGGCATCATAAATGGATGCATTTTGCTGGGAAAAAAAAAAAAGTTAAAAAAAAAAACTGGAAT

GTACTTAAGAGGATGAAACACAGCGGC C/G extended_map 0.177
0.002 0.325 0.010 34.8% 198 92.8% 152 96.6% 58
85.9% 78 NA 0 24.2% 66 25.0% 40 46.7% 92
26.2% 42 NA 0 96.2% 78 89.2% 74
96.6% 58 85.9% 78
rs684660 AB_ASSAYS_ON_DEMAND 7 115.0053 104940892
forward LGD
TCGGCAACATGACCTCTAGGTCTTTTCCTCTACTATTCCATGATCTTAGAGAAGGAGAATTTTGCCCCAGGTTCT
AAAAGCAATGATAAATATGTGTTGG[C/
T]ATAGGTTCAAACATTTCATTTAAACATTCAACAGTTCAAACATTTTTGACTGCACTGGAACCTGCTGTAAGAA
ATATAAGTACTTTTCATGAAGACTATA C/T 1,953 0.138 0.210
0.001 0.230 6.6% 196 50.6% 154 3.4% 58 2.5% 80
NA 0 9.1% 66 7.5% 40 4.4% 90
9.5% 42 NA 0 51.3% 78 50.0% 76 3.4% 58
2.5% 80
rs7781623 AB_ASSAYS_ON_DEMAND 7 115.7359 105335682
forward LGD
TTATACGTTTAAGTGCTCGTGTATTTCATAACACCACTATAGGATCTTGCATTTGAATACTTACCAGGGACTAAA
ATAAATTCACACTGCTATTTTGCTG[A/
G]TGAAGTGTCCTATTGTGTAAGTGAAGTTTTTAATTTTGTAGGTTTAGATGAGTAAGTTAAAATTTTCCTTTCT
GGTTCTTAATTTGTTTTCTAATTTGGG A/G 1,852 0.145 0.100
0.025 0.000 73.7% 194 19.7% 152 55.8% 52 18.9% 74
NA 0 76.6% 64 73.7% 38 71.7% 92
63.2% 38 NA 0 27.0% 74 12.8% 78 55.8% 52
18.9% 74
rs1024401 AB_ASSAYS_ON_DEMAND 7 117.0294 106702386
forward LGD
AACCAAGAAATAAAAAACTTTGATACATTACTAGTTGGAAGTACCTTAAGCTAAATAAATTGTTCTCAAACTTTA
TAAGTCTTCCAGCAAGGGGTGATAG[C/
T]AAGGTAAAACACAGAGCTTCCATGAACATTATTAAACAACCATATGAAACAGAACACATATCTAGAAATGCTT
GCAACTTTAAAATGTACGAAAAACAAC C/T 790 0.234 0.000
0.266 0.019 99.5% 196 50.0% 154 51.7% 58 66.2% 80
NA 0 100.0% 66 100.0% 40 98.9% 90
92.9% 42 NA 0 50.0% 78 50.0% 76 51.7% 58
66.2% 80
rs2286251 AB_ASSAYS_ON_DEMAND 7 118.39 107263408
forward LGD
ACCCATATGTAAAGCAATTGGTGAGCAATAGGAAACAACAGCTCAGTTTTTTTAATGGACTTGTGGGTTTTGAAG
GTATCTGTTTATTTTCATTCTGATT[A/
C]ATAATCTCTTCTGATTAACTATTTCTTAGGTCTTCCCTATGGTTACATGTATGAAATAGTGAAAGGTGAGGCT
GATGTCTGTGTTTCACTGTGTATGAAT A/C 68 0.367 0.001
0.581 0.023 14.6% 198 96.2% 156 98.3% 58 86.3% 80
NA 0 7.6% 66 15.0% 40 19.6% 92
16.7% 42 NA 0 96.2% 78 96.2% 78 98.3% 58
86.3% 80
rs2396160 AB_ASSAYS_ON_DEMAND 7 118.9572 109030888

forward LGD
AAAAATCAGCCCACAAAGATCTAATGATTCTAGGTGTGTAGATATCAAACAAGAGTCTCAGAATACATGCATTAA
AAACTGTAGGACCTAAAGGAAGCAA[C/
T]TGATAAGTCTATGCTTATAGTTTCAAATTTCAATGATCTCCTCTTGGCAATTCTGTAACATTTCTTTGGAGAT
ATTATTAAATAGGAGTATTCAAAAATA C/T 1,742 0.155 0.002
0.245 0.001 47.5% 198 0.0% 156 0.0% 58 0.0% 80
NA 0 56.1% 66 40.0% 40 44.6% 92
59.5% 42 NA 0 0.0% 78 0.0% 78 0.0% 58
0.0% 80
CV2541909 AB_ASSAYS_ON_DEMAND 7 120.2791 111033571
forward LGD
ATGAGAAAAGTCCACATAAAACATTTTATTCATTATTTCCATTTGTTTTATTACTGCTAACATGAATACCAAAGC
ATAAAACTCAACACCTGGATAATTA[A/
G]TCATGTCTTTCAGTTTATGCTTCTCTGCTATTTTTTAATTCCCAGGCTCCATAAAAATATGTACGCTTTTCCT
ATGGGAAATTTTCAAATATGAAGTCAT A/G extended_map 0.255
0.000 0.369 0.014 10.3% 194 77.6% 156 79.3% 58
65.0% 80 NA 0 8.1% 62 10.0% 40 12.0% 92
23.8% 42 NA 0 78.2% 78 76.9% 78
79.3% 58 65.0% 80
CV25640290 APPLERA_RESEQUENCING 7 120.2836 111047557
forward LGD
CAGCCCAGCTGGAAATAAAAGTGGGTCTCAGAGGCTTCCTCTTTAGTGCGGTTTCTTTGTAGACTATTACAAGTT
TATTTCCAGAAGCCATTTGAAGGGA[A/
G]CTATATACTATGACCTGTATTTACTTACTGAGCTATTTTTCTTGATAAGACAAAATACGTTGCTAAGGATACG
TGCACACATGATCAGGTCCTTCTGTTC A/G 1,208 0.297 0.006
0.489 0.001 6.8% 192 77.0% 148 85.2% 54 74.4% 78
NA 0 6.5% 62 0.0% 38 9.8% 92
7.1% 42 NA 0 75.7% 74 78.4% 74 85.2% 54
74.4% 78
rs4727766 APPLERA_RESEQUENCING 7 120.4347 111518913
forward LGD
TTTCATGGCGTTTGTATGTTTTGCAATGAAGAATTCCTTGGAAACAGGTTTGCCATTTTGCATCTTTAAATGTTA
CTGTTTTTAATCTGAAAACTCATCA[A/
G]AACATCCCTAACTGTTGGTTATATAAATTAAGTTCTATGTGTTGGCTCAGGACCCTTTCGTATATAAGCAGTC
CTTTTTAAAAATATACCCAACGTCCAA A/G 1,902 0.171 0.101
0.036 0.000 16.7% 198 73.7% 152 36.2% 58 73.8% 80
NA 0 16.7% 66 12.5% 40 18.5% 92
4.8% 42 NA 0 73.7% 76 73.7% 76 36.2% 58
73.8% 80
rs994997 AB_ASSAYS_ON_DEMAND 7 123.6 116607453
forward MIT
AAGAAAGAGTTTCAGCAAACTAGGGGGAAACGCACAATTTCTAAAAACAAAAATGTCAATTGCATGTATTTTTTA
AAGGCTCATTCTAACAATAAAAATG[C/
T]CAACTCCAAACTTAAGGTTAAATTGAAGATTTACTATGTCAAGTTTCAATTCATTTGACTGAAGGCCACCTTG
TTTTTCAGACCTACAGGTGATTAAGCT C/T extended_map 0.201
0.082 0.061 0.001 94.0% 184 39.2% 148 73.2% 56

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34.6%   78      NA      0       98.4%   62      91.7%   36      91.9%   86
        97.4%   38      NA      0       37.5%   72      40.8%   76
73.2%   56      34.6%   78
rs214165        TSCAF   7       123.6338        116843835       forward MIT

TAAAGAACGATCAAAATTTTAATGGGTTGTTAGTATTATTTCTTTAAAGATTGTGATACTGATAAATATTTGGCC
ACATTTTAATAGAATTATACATGGG[A/
G]TGTGTGTGTGTGTGTGTGTGTGTGTATATGTGTGTGTGTATATATATATGGCAGTAGAGATATATATATCTAC
ACACATCTAGATATATATATACATGTA      A/G             1,672   0.144   NA      NA
        NA      90.9%   110     42.9%   112     NA      0       NA      0
        90.9%   110     NA      0       NA      0       NA      0       NA
        0       42.9%   112     NA      0       NA      0       NA      0
        NA      0
rs1523802       TSCAF   7       123.8884        117973584       forward MIT

ATCACTTAAAAAAACATAAATACAACAACTAAACATGAAAGTTATCAAATGAAAACATAAATAAATACACCCCCA
AAGAATCATTTGGTGATCTTCTTTT[C/
T]GGGTGCTGTATTTGCATTCAAAATAAGACGGAGCAAAATTTATCTGTGACATTTGGTATGCTTAAAGGTAATT
CAAAAATATCTCTGCTATAAAATATCT      C/T             673     0.243   0.011
0.205   0.018   98.8%   332     46.5%   312     58.9%   56      62.5%   80
        99.3%   136     96.9%   64      100.0%  40      98.9%   92
97.6%   42      43.6%   156     43.6%   78      55.1%   78      58.9%   56
        62.5%   80
rs2190183       AB_ASSAYS_ON_DEMAND     7       124.2137        119416804
        forward LGD
AAATACAGTGAAAATATATGCCTCAACTTAAGCAGTTTTTGTCTGTCACTCATTTCATGGTTTATAATCACACTC
AAGGGAATAATATCAAGGCGATACT[C/
T]CTGTTTCCTCAGAATCCATTTCTCCCAGGTGCTCTACTCTATCTCCATGAGTAATCTTCTGCTTGGCACTAAA
GGGAGACTGAGTCTGCTACTCACACTG      C/T             extended_map    0.176
0.000   0.257   0.001   79.8%   198     21.2%   156     20.7%   58
17.9%   78      NA      0       83.3%   66      95.0%   40      70.7%   92
        76.2%   42      NA      0       19.2%   78      23.1%   78
20.7%   58      17.9%   78
rs2402526       AB_ASSAYS_ON_DEMAND     7       124.2347        119510088
        forward MIT
CAGTGGAACCGGAAACAATGTAAACCTTGAATTTTCCACAGGAAAGCAAAGGGCTAAGGATCAGAATGACACCTA
CATTGTATACTTCTCCAGTGAATCT[C/
T]GGTGTCGATTATTTTGCCAGATACAGAAAATAACACACGTAGTGCCTATGAAATTTTCAACAAATTCTGGTGC
CACCCTTATGGGATAGTCCCTAAAGCC      C/T             966     0.19    0.001
0.250   0.000   20.2%   198     81.2%   154     78.6%   56      80.8%   78
        NA      0       16.7%   66      5.0%    40      29.3%   92
22.5%   40      NA      0       80.3%   76      82.1%   78      78.6%   56
        80.8%   78
rs2141360       AB_ASSAYS_ON_DEMAND     7       124.668 120614676
reverse MIT
CACTACTCTGAGGAATAGGAAGTAGAAGAGATTTATGCAGGAGTATTCACAAACCCCTCCAGTTGTGCTAAGAGG
```

GCTCATGAGTACCTGACATGGTTCT[A/
G]GAAGCAAGAAAGGAGAGAACAGATTTTCCTTGAGACTGCTTTCCTTTCCCAGAAGAGGAGGAATGTTCTCCAA
GGAAGACTGGAGAAAGAGGCTCCTCCC A/G 123 0.327 0.024
0.341 0.139 82.3% 192 4.5% 154 14.8% 54 39.7% 78
NA 0 81.2% 64 89.5% 38 80.0% 90
71.4% 42 NA 0 6.4% 78 2.6% 76 14.8% 54
39.7% 78
rs1994765 AB_ASSAYS_ON_DEMAND 7 130.0097 128026943
forward MIT
CGACCAGCTGGGGCGCCCCACCATGAGGAGGTTCAAAGGGGCTGCCCACGAGGCAGGGGCATCCTGCTTCTGCTA
GCTCCCCTACTCCATTTAGTGGTGG[A/
G]AAGGGGCTATCCATGGGGCCACCTTCTGAGTATTGTCTCAGCACCGAAATCGAGCATCTGGGCACCTCAGGGG
GTGTCAGAAAGACTCCCCACTTCTCTT A/G 510 0.179 0.020
0.148 0.068 78.8% 198 19.5% 154 33.9% 56 48.7% 78
NA 0 81.8% 66 77.5% 40 77.2% 92
66.7% 42 NA 0 21.1% 76 17.9% 78 33.9% 56
48.7% 78
rs867704 AB_ASSAYS_ON_DEMAND 7 130.8871 129244322
forward LGD
TGGTCCGCTGCCGAGTTGCTTCCCCGAGAGTTTGAAGGCTCCGGAACTTCCGTCCTGGGAGGTTAATATCCGCCT
CTTGAGGCAGCCTGGCTGGGAAAGT[C/
G]TAACCGCGGGGCCCACGCCTTTTCTCATCATTTTAGAACCTTAGAGCGAGCTTAAGGAGGGCTGTACTGTTTA
GGACAATCTTGATTAATCGTTTCCTTT C/G 1,434 0.119 0.001
0.188 0.035 11.1% 198 54.9% 142 58.9% 56 76.3% 76
NA 0 7.6% 66 5.0% 40 16.3% 92
7.1% 42 NA 0 52.9% 70 56.9% 72 58.9% 56
76.3% 76
rs7803075 AB_ASSAYS_ON_DEMAND 7 133.424 130158317
forward LGD
AGCACATGCACTTCCCAAGTCGTTGTTTTCTTTGATCTCCTTAGACTCTCTGCCTCCTAGAGAATCTAATCCACA
TGAACTGCGCTCCTGGATCTTTTAC[A/
G]TAACTGTGGTTTTTCACAAGGTTCTTTAAACAAAGGTCCACGTGATAGATTTCTGCTCAAGCTTAGTTCCAGG
AAACGTTTGGTTTCTGCAGATGTTTAC A/G 839 0.342 0.156
0.093 0.366 2.0% 196 71.7% 152 25.0% 56 5.0% 80
NA 0 1.5% 66 0.0% 38 3.3% 92
0.0% 42 NA 0 73.1% 78 70.3% 74 25.0% 56
5.0% 80
rs1450881 APPLERA_RESEQUENCING 7 136.5192 131248785
forward MIT
CTTTTGCTCGTGGATGAAGGTCTTGCTTATGCATCAGAGTGCCCGACTGAAACCAGGGTCCTCTTCCCCCACCTG
GCTCTCTTCCCCGATGGTCAGCCTG[C/
T]CTGATGCCCCATCTCCCCTCTCCAAGAGTCTCCTGCCTTCTGGCTATGCTGCTGTCATGACAACAGCTGCTCA
GGACACCCAGGCCTCCCTAGGACACTC C/T 333 0.345 0.001
0.546 0.003 14.6% 198 94.2% 154 96.6% 58 97.5% 80
NA 0 12.1% 66 12.5% 40 17.4% 92
11.9% 42 NA 0 96.1% 76 92.3% 78 96.6% 58

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        97.5%   80
rs1000059       TSCAF   7       137.2501        131513240       reverse MIT

GAAGCATGCTTGGAGCATAGTAGGCATACCATTTCATCTAGCAACTTCATTCATTCATTCAACAGATGGAGCTGA
GGTCTGGAGGGGGATATATGCCAAA[A/
C]ACCAAACAAATAAATAAAATAATAAACAGTTATCAGGGCTTTGAAATAAATAAGTAGGGTTTTGAAATAGAGG
ATAATCAAGTTTTGGGGGTCTACTCAG     A/C             extended_map    0.251   NA
        NA      NA      76.2%   84      6.4%    94      NA      0       NA
        0       76.2%   84      NA      0       NA      0       NA      0
        NA      0       6.4%    94      NA      0       NA      0       NA
        0       NA      0
rs1433391       AB_ASSAYS_ON_DEMAND     7       137.2626        131517752
        forward LGD
ACAGGGCTGTCCAAGAATGAGACATTGAACATTTGTAAAATAGCAGCAATTGAAAAGATAAATGGCAAACCTGGA
GTTTGGGAAGCAGCCCAGTAGGACT[C/
G]TCTTCCTATTCAGTCTCAGTAAATACTTCTTGAATAAACCAATGGATGTTTGGCTGGATGGAAGAGTGGATGG
ATGACACCTAACAGTTCTTCAACCACT     C/G             53      0.378   0.092
0.249   0.150   13.6%   198     96.2%   156     70.7%   58      60.0%   80
        NA      0       6.1%    66      10.0%   40      20.7%   92
14.3%   42      NA      0       98.7%   78      93.6%   78      70.7%   58
        60.0%   80
CV2886729       AB_ASSAYS_ON_DEMAND     7       138.7516        132982552
        forward LGD
TATTCGTGAACTTATTTTCTTATCTTGCTAGTATCTAAGATTGTTGGAGGGCAAGAATCTTATCTGGCTTTGTAT
CTCCTGAAGTTAGTCTAGTGTTTGG[C/
T]ATAGAGAAGGTACTTACTTATTTATCTATTTAATCAATTAGCTGAGTTCCCTGCTGTTTCCCCAAACAACTTC
CTATCCTCTCCAGAACAGTTTTCATCT     C/T             extended_map    0.206
0.051   0.486   0.006   1.5%    196     49.4%   154     75.9%   58
58.8%   80      NA      0       0.0%    66      2.5%    40      2.2%    90
        4.8%    42      NA      0       52.6%   78      46.1%   76
75.9%   58      58.8%   80
rs706578        AB_ASSAYS_ON_DEMAND     7       142.5349        136714960
        forward LGD
ACTCATGTTACTACAAACGAAACAATAAAAGATTGAGCACTATCATTCTTTCAAAGAAACCAGCTTGTTCCCACT
CAGTACTATGAAGTCACAACAGGCT[A/
G]TATTAAGGAAAGAGAATGGAGGATCCATTTTATATTCTTTTTAGAAGATAGGAGCAGCCCAGTGAGATTCATG
AGAAAGTTACAAAAAAGTGACAGTTTG     A/G             extended_map    0.237
0.028   0.466   0.002   1.5%    196     54.5%   156     74.1%   58
48.7%   80      NA      0       0.0%    66      0.0%    38      3.3%    92
        0.0%    42      NA      0       55.1%   78      53.8%   78
74.1%   58      48.7%   80
rs270893        AB_ASSAYS_ON_DEMAND     7       142.7781        136783975
        forward LGD
TACGCTGGACAGTGCATCTAATTTCGGAGTCTTGTTTTCTTCTGCTCTGAACTCTGACACCCTCTCCGATTTATT
TAACGTTAGTATAAATTTAGTTTCC[C/
G]CCAAAAGAGAGCCATGATTGTGCCTCTCCCTTGTTCAGAATGCTTAGATGTTTCCCTATTTATAAAATAAAAT
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CCAAATTCAACCTGGCATACTAGACTC C/G 235 0.273 0.031
0.201 0.023 6.6% 196 73.4% 154 53.4% 58 56.2% 80
NA 0 9.4% 64 5.0% 40 5.4% 92
7.1% 42 NA 0 74.4% 78 72.4% 76 53.4% 58
56.2% 80
rs1345918 AB_ASSAYS_ON_DEMAND 7 143.0005 136839617
forward LGD
CATATCCGATTTACTAGATACTCATTGTAAAGTCTGCCAGACTTCCATTGTCTATTTTCTTTGATACAATTTTGA
AAGTATCCATCATCAGCCAAACCAG[A/
T]ACACGCAGGTCTGGTTTCATCCTAACTGTTCATGCCCATAACCATAAAAAAGAAGACACAGATTCATCCCTCA
TCCCTCAGGTCTCGTTGATTTGTGCCA A/T extended_map 0.16
0.064 0.056 0.020 83.7% 196 28.8% 156 58.6% 58
45.0% 80 NA 0 81.8% 66 90.0% 40 82.2% 90
85.7% 42 NA 0 32.1% 78 25.6% 78
58.6% 58 45.0% 80
rs6467843 AB_ASSAYS_ON_DEMAND 7 147.7386 138484922
forward LGD
GTAGGAGGTCTGGAAGTCATTGAAGCAGATTGTTTTTCATAGTCTAGTACTGGTTAATATATTTCAGTGTCATAT
TGATTTCTTTGTACAATGAGTCTCA[A/
G]TAAATGCTTTTTCCCTAAGGATCAGGAATTATTCTCTTAGTATTTCCTGGACCCTCCAGATGTTTTTTAGAGA
TAAGTAGTTTTATCAACTGTATTTTAA A/G 1,532 0.185 0.071
0.545 0.016 85.3% 190 26.7% 146 3.4% 58 13.9% 72
NA 0 85.5% 62 89.5% 38 83.3% 90
82.5% 40 NA 0 20.8% 72 32.4% 74 3.4% 58
13.9% 72
CV358711 AB_ASSAYS_ON_DEMAND LGD

TGTCAGGATTTATAAAATCAGCTCCTATGGCGACGACACAAACACAGCTCTCAAAGATACTCTCATTCTACCTGG
CATCTCTAACAATGCTAGGTCCCAC[A/
G]TACAAATAAACCAAAAAGGGCCTGAATCTCAGTTCCTGGTAAAAATCTCATCCCATTCCTACTTAGCCTAAAG
GTTTTTTTTTTTCTGTTTAAAAAATAA A/G does not map reliably to HG16
public assembly (physical position was chr7: 134,120,006 in Celera R27
assembly, which interpolates to chr7: 138,800,732 in HG16 and 148.0750 cM
in the deCODE genetic map) 938 0.198 0.226 0.006 0.007
77.3% 198 14.9% 148 69.6% 56 22.5% 80 NA 0
86.4% 66 67.5% 40 75.0% 92 88.1% 42 NA
0 20.3% 74 9.5% 74 69.6% 56 22.5% 80
rs13760 APPLERA_RESEQUENCING 7 148.4272 139131446
forward MIT
CTGGTGCCAATAAGCAGCAAAGTCAACAAAGAGTAAAAACTAAAACTTCAACACATTATTAAAAAGCAAAACTGG
ACTCAACTACAATCACTTCTGGTTA[A/
G]TCCACTAGTGAACCCAAAAGTGACTTAAAAGTAAAAATCATTATTAGCAAGAGATTAAGAACATAACTTCATT
GAGAGGTCAATGTTAAGAGAACAGTTC A/G 1,918 0.1 0.009
0.079 0.000 89.4% 170 50.0% 134 61.4% 44 50.0% 70
NA 0 93.8% 64 91.7% 24 85.4% 82
89.5% 38 NA 0 50.0% 66 50.0% 68 61.4% 44

50.0% 70
rs269241 AB_ASSAYS_ON_DEMAND 7 149.0367 139703678
forward MIT
GAGAGCTGTGGGGATCCGTATCAGTCCCATAGAAGATGGAAATTATGGAATCAATAACAGCACAGTGTGATCTGG
CAGCCATATAATGACTGAGGTTTCA[C/
T]GTCCTCAAGAAGTTCTGAAAGTCTTACACTAAAGCTCCAAGGAAAGGCCAAATCTATATGATGCCAAAATAAT
CAGCTGAAAAGTTGAAATTTTGGTCAT C/T 449 0.28 0.042
0.592 0.011 96.9% 196 34.0% 156 12.5% 56 22.5% 80
NA 0 97.0% 66 100.0% 38 95.7% 92
95.2% 42 NA 0 41.0% 78 26.9% 78 12.5% 56
22.5% 80
rs1985729 TSCAF 7 150.7616 141102082 forward MIT

ACCCAGTCTCAGGCATGTCTTTATAGAAGTGTGAAAACAGACCAATACAGTGATGTTATCTTTGGTAGTTGGGGA
AGTTATGAATTTTGTGACACTGGTT[A/
G]TGTGACTGGGGCAGTAAGCAACTTATAGAAAAACAAACTAAGCCATGGCAGGACATTGTTTATGCCTATTCTT
TAGCAAAGTCTAAGCCCCTACCATAAT A/G 227 0.274 0.008
0.308 0.024 13.9% 330 85.0% 300 77.6% 58 70.0% 80
15.2% 132 10.6% 66 12.5% 40 15.2% 92
11.9% 42 87.7% 146 84.6% 78 80.3% 76 77.6% 58
70.0% 80
rs4987583 SEATTLE_SNPS 7 151.5578 142057750
reverse MIT
GACCTCACTTTCACTTAGCATTTGAGGCTCAGCCCCAGGCAGGGAGGACTGGTTTAACCACCTGGTCCCCAGGTT
GCCTGCTCCAGTCCTGTCCTCCCCC[C/
T]CTCTTGGCTCCTGACCCCTTCGGTTCTCTTCAGGGCTTGGTCAGAGGCCACCACGAGGGCAGAAAAGAGGTCA
GGCCATGCACTCATCATTATGGATAAA C/T 1,163 0.187 0.017
0.408 0.006 32.9% 170 92.7% 150 100.0% 58 97.5% 80
NA 0 29.0% 62 12.5% 24 41.7% 84
47.1% 34 NA 0 93.6% 78 91.7% 72 100.0% 58
97.5% 80
rs1506403 TSCAF 7 151.6108 142221881 reverse MIT

CCTTAGGCCAAGAGCTTTGTCAGGTTAAGAACCATTTATGCCTTTTTTACCTTTCTACCCTCTACCTGTTACAGT
GCCTGACACACACAGCCTACTCAAT[A/
G]TTGAAGAAATGAATGAATAAATGGATGAATAATTATACAAGGACCCAGTCCTCCTCCCAACACTCACACACAC
ATTGAAAAACAATCAGTTTGTTTTTGG A/G 1,640 0.147 0.009
0.306 0.062 26.5% 310 80.5% 262 89.7% 58 98.8% 80
18.8% 112 31.8% 66 22.5% 40 33.7% 92
35.7% 42 84.5% 110 80.3% 76 75.0% 76 89.7% 58
98.8% 80
rs2710084 AB_ASSAYS_ON_DEMAND 7 157.5134 147047484
forward LGD
TGGTAGATATTTTCTTCTTCATGGGAGTGGAATTCCTTTTACAGGTTGATTCACAAACCTAGAGCCAAAAATATA
ACTGAACTATTACAGATTTAAAGTA[C/
T]AGATTGCATAATTTTGTAAAAATATTATCATACAAATTCTAACATATCGTGAGCTGAATTATACTACCACAAC

TAAAACTCAATTACTTATAGGAGTCAG C/T 1,066 0.166 0.019
0.374 0.001 81.3% 198 24.6% 142 11.1% 54 21.1% 76
NA 0 78.8% 66 90.0% 40 79.3% 92
95.0% 40 NA 0 22.1% 68 27.0% 74 11.1% 54
21.1% 76
CV2634197 AB_ASSAYS_ON_DEMAND 7 159.3983 147724388
forward LGD
AGGCAGATGCCCCGGCACCAGAATGCCTGGTGTGCCTAAGACATCCACCTGCCCTGACTCATTTCACATGGAACA
GCAGGACCGGGATGTAAATGAGAAT[C/
T]GCATAGTGCTTGGCTTGTAGCTCTCCTGAGGAACTTCCCATATTGGTTTCTCATCCATCACACCCTGAATGTG
TGATGTTCCTTTATGCCTCTGAGTTTG C/T 1,274 0.159 0.064
0.049 0.096 7.1% 196 55.8% 156 25.9% 58 20.0% 80
NA 0 6.1% 66 10.0% 40 6.7% 90
4.8% 42 NA 0 53.8% 78 57.7% 78 25.9% 58
20.0% 80
CV1880985 AB_ASSAYS_ON_DEMAND 7 160.4789 148112446
forward LGD
GGCCCCGGCTGGCAGTTAAGTAGTGCTTTGGGACCATCCATATCCACTCTCACTACCTAGCTGCTCTGCCCAGTA
GGAGTCAAAGTTACTTGCAAGCAGA[C/
T]GGATGGGAAGATTGGAGGAAGGTCGGAAATAATGCACTGGGGAACTTAATCAACTCTTCCAGGTAGGAATCAC
AGCTAGGAGAGGAAGGGAAACTAATTG C/T extended_map 0.14
0.103 0.527 0.006 78.1% 196 25.3% 154 0.0% 58
33.3% 78 NA 0 83.3% 66 80.0% 40 73.3% 90
90.0% 40 NA 0 24.4% 78 26.3% 76
0.0% 58 33.3% 78
rs4727017 AB_ASSAYS_ON_DEMAND 7 160.7611 148213803
forward LGD
CATTTATGACCACATTTACAATTAGCATTAAACTGCTACAGTGGAAAGGAAAATCAAGAAAACGATTTTTCCTTG
CCTATCCCAAATAATACATTAGCCA[A/
G]TAAACTGTTACCACATTTTCTATAAATTCAATGTACAAAGAAGAGCTACCACAAACTTTCCCAGAACAGAGAG
GAATATTCCAGGAGATTCCCAATCACT A/G 480 0.266 0.057
0.622 0.042 4.5% 198 67.8% 152 91.4% 58 88.5% 78
NA 0 4.5% 66 2.5% 40 5.4% 92
16.7% 42 NA 0 67.1% 76 68.4% 76 91.4% 58
88.5% 78
rs7791496 AB_ASSAYS_ON_DEMAND 7 160.877 148255415
forward LGD
AATGAAGTTCAGGGTTATGGGTGTGACAGCTGGTGGTTTCCATGGGTATCCTTCACTTGGAAAGGAGCTTGACTT
CTCCCCCTTGAGGCACACTGTCACT[C/
G]TGAAAGCAGTGCTAACCTAGCACATGTGCTTTCCCCACACATTACATCTCCACTGCCTGCTTTCCTGAATAGA
TATCCACAGCTGAAGATGGATAGATGG C/G extended_map 0.252
0.071 0.636 0.045 5.2% 194 67.1% 146 93.1% 58
88.5% 78 NA 0 3.1% 64 2.6% 38 7.6% 92
16.7% 42 NA 0 64.9% 74 69.4% 72
93.1% 58 88.5% 78
rs1044358 AB_ASSAYS_ON_DEMAND 7 160.9223 148271692

forward LGD
TTGTGAAAATAAATGGAAGTTGGTTGATTGTCTAGAAAGTGCAAGAAGATGGCCCTGCTCCTTTTCTGCTGAACA
TTTAGTATTGGAAACTCCTACTTCC[A/
C]TTTTCATTAATAATGTGTGCAAGTTTCCTATTAGCGGGGAAGGTGTGGGGCTCTGCTGGGCTTCTCTTGAGCA
TATCTGAGAAATGATGTTCATGTCTAT A/C extended_map 0.236
0.073 0.619 0.053 93.9% 198 33.3% 156 6.9% 58
10.3% 78 NA 0 93.9% 66 97.5% 40 92.4% 92
83.3% 42 NA 0 34.6% 78 32.1% 78
6.9% 58 10.3% 78
rs975018 AB_ASSAYS_ON_DEMAND 7 161.3585 148896060
forward MIT
AGGGTCCTGAGAATATTAGAGCGAGTGGTCATCCCCATTTGACTTATGGGAATATTGGGTCTCAGATCGATGGAG
CGATTTATGATAGAACTAGAGATGG[C/
G]AGAGGGTCTAACCTGTCATCACAGCTTTCTCTGGTTCTCTTTCCTGAATGTAATTTCATACCTGGGATCCACT
TGATTTCTGTTCAGAAACATTCAAGTG C/G 766 0.239 0.028
0.202 0.006 80.1% 196 12.2% 156 27.6% 58 18.8% 80
NA 0 78.8% 66 76.3% 38 82.6% 92
83.3% 42 NA 0 12.8% 78 11.5% 78 27.6% 58
18.8% 80
rs764800 AB_ASSAYS_ON_DEMAND 7 164.0599 150646203
forward MIT_and_LGD
AGCAGGGTTCTCTACCCCAGGGGTTTCTACCTGTGTCTGGCAGTGCCTTAGGAGGATGATCCAGAGGCTTCGGAG
GAGGGCGACGTGGGAAGGAGCAGGT[A/
G]GCCCAAGCTCCCATCTCCCACCCAATCGTTCGGGCAGCTTGGATCCACGTAACATCTTGTCATTCTAAATATG
TCAGATTTAACTTGGAAAACAAAAAAA A/G 1,745 0.125 0.016
0.089 0.019 84.3% 198 36.5% 156 51.7% 58 21.2% 80
NA 0 83.3% 66 85.0% 40 84.8% 92
73.8% 42 NA 0 30.8% 78 42.3% 78 51.7% 58
21.2% 80
rs6464167 AB_ASSAYS_ON_DEMAND 7 164.9465 150829699
forward LGD
TTGAGATGGGCCTTCAGGGTTGGAGGGTGTGAAGAAGAGGGGGGAACCCAGGCCAGGCCAAATCAATGCCGGAGG
GGACCCCAGCCTTCCCAAACAAGCC[A/
G]CGAAATCTACCGCCAGCTAGGTCCCCTGATATACTGATGGATTATTTCTGCTGTTAAATATGGTAGCCCAAAC
TTAACTGTGATTAAATTCTGGAAGTAG A/G extended_map 0.131
0.106 0.027 0.044 53.1% 196 98.1% 154 72.4% 58
84.6% 78 NA 0 51.6% 64 42.5% 40 58.7% 92
54.8% 42 NA 0 98.7% 76 97.4% 78
72.4% 58 84.6% 78
CV27838549 APPLERA_RESEQUENCING 7 165.1684 150875637
forward LGD
CCACCATGCACATCCGCTTCCAGAACGTGCAGTCAAACTTCCAGGAGCAGCCATGACCTCCCAACACCCCAGGGA
AGGAGGAAAGAAGAAATGGCTGGGA[C/
G]TAAAGGAGTCAGGAAGGCAGGCAGAAAGGGTGGAGGGAGGAGAGCCCGTCTCAGGCTATTCTGCTGATGGACA
TGATTTTACCCCACAGCACGGAACATG C/G 215 0.278 0.019
0.553 0.037 14.1% 198 86.2% 152 96.6% 58 98.8% 80

NA 0 16.7% 66 15.0% 40 12.0% 92
19.0% 42 NA 0 89.5% 76 82.9% 76 96.6% 58
98.8% 80
rs3735156 AB_ASSAYS_ON_DEMAND 7 166.2809 151340809
forward LGD
AATGGCACAACATTACAAAAACAAAAAATTTAAAAAAAAATCATTCTCAAATTTACCTGTAGTGAGCTCAGCTAT
CTCCACTTCCTCACCTGGCTGTAAA[C/
G]GATCCATCTCAGCTCCCAGGTGTTTACAATACATGCAGATATACTCTTCTTTGAGCTGAGTATCCAGTTCATG
ATCTGTTGGTTTGTCACACTCTAGGTG C/G 872 0.172 0.007
0.222 0.013 55.6% 198 1.9% 156 5.2% 58 7.5% 80
NA 0 63.6% 66 55.0% 40 50.0% 92
52.5% 40 NA 0 1.3% 78 2.6% 78 5.2% 58
7.5% 80
rs1861141 AB_ASSAYS_ON_DEMAND 7 173.1413 153452185
forward MIT
AGGAAATGTAGTTGTTATAAGAAATGCTCAATGTTCCAGAAGTGCTATGAGTTACTAGAACAGGAATTTTCAATG
GCAGTTTTATTCCAGTTTGTCCCCA[A/
G]TGCTTCAAGAGAGGGTTGGGTAGGGCTTTATGTGTTTGGGGAAGTTGCTGAAGAAAGCAGCTGAATAACTGAA
TCCTTTTACTTATAAAAAGGTTCAAAG A/G 129 0.323 0.015
0.364 0.000 16.8% 196 94.2% 156 86.2% 58 93.8% 80
NA 0 15.2% 66 15.8% 38 18.5% 92
35.7% 42 NA 0 92.3% 78 96.2% 78 86.2% 58
93.8% 80
CV11664967 AB_ASSAYS_ON_DEMAND 7 173.211 153478760
forward LGD
AAGCTTTGAAGTTGGATGGGTGATTATTACAAAAGCCAGATTAATACAATTGACCTAATTTCTAGTCAGTGACAT
TATAAGCAGCCTTGTAAGAATAGCT[A/
G]TTACTACAAATATGCGGGTTTGCAATGTTCAATTCTAAAGTGGTCTAATTTGTTCTTACTACCTGCCAGAATG
TATGCATTCAAGTGGGTGTCCTCCATG A/G extended_map 0.215
0.011 0.399 0.004 91.8% 196 32.5% 154 20.7% 58
39.7% 78 NA 0 97.0% 66 97.5% 40 85.6% 90
83.3% 42 NA 0 34.6% 78 30.3% 76
20.7% 58 39.7% 78
CV1940601 AB_ASSAYS_ON_DEMAND 7 173.3006 153512965
reverse LGD
TTTTCTTTGAACACTTTTCTTTCTTTACAGACAACACCCTAATCTGCAACAAATATCTGCGTATGTGAGTTGAGA
TAAACAGTGCGTAGCTGACATTGCA[A/
G]GGTTTCTAGGCCTATGGTACACTTGCACCTCATCTCTCTAATGGCGTGCAAAAACAGGAGAGGATAGTATCAT
TTTTACAAATGATTGGGAAGAGTCAAA A/G extended_map 0.203
0.015 0.400 0.001 8.1% 198 65.4% 156 79.3% 58
62.8% 78 NA 0 3.0% 66 2.5% 40 14.1% 92
22.5% 40 NA 0 66.7% 78 64.1% 78
79.3% 58 62.8% 78
rs6947471 AB_ASSAYS_ON_DEMAND 7 173.9824 153773215
forward LGD
CATAGGCCATATGTAGCTAGTGGCTACCCTATTGGGCAGTACAGTTCTAAAGCAATGCTGAATATTTAACGACCT

TCAGATATTTGCAGACAGCTCTCCT[A/
T]TCCACATCTTTAGCCTTCTTTGGCCCAGCCGAACAAGTGTTTCAGATCATGCCTCTGGACTCCTTTCTGTCTC
CGGACTTCGTAACAGCATGGTCACCCT A/T 1,211 0.125 0.122
0.013 0.005 51.5% 194 5.2% 154 37.9% 58 1.3% 76
NA 0 53.0% 66 47.4% 38 52.2% 90
52.4% 42 NA 0 5.1% 78 5.3% 76 37.9% 58
1.3% 76
rs3823615 APPLERA_RESEQUENCING 7 182.9449 155885611
reverse MIT
CCAGAATTTCAAACTGAAGGGACCTTTGCCGTCACCCTAAAGCCCATGAGGAAAGTCCTACCACAGGTGCAGGGG
CAGCTAGGGCAGCGGTTACCCCGGG[A/
C]CTGACACTCCTAGGCTTCCCAAAGTGAGTCCTCGACCTCCCCCGACATGCCACCCCCACAGCCTCCACGGCTG
CACCCCGGGCCTGACACTCCTAGGCTC A/C 1,367 0.103 0.068
0.016 0.096 86.9% 198 45.2% 146 75.9% 54 80.8% 78
NA 0 89.4% 66 82.5% 40 87.0% 92
85.7% 42 NA 0 39.2% 74 51.4% 72 75.9% 54
80.8% 78
rs1182381 AB_ASSAYS_ON_DEMAND 7 183.6195 156460328
reverse MIT
TAGCAAAGGCCTCAGGCAGGTCACCACAACACTCACCGTCCGAAGGCTTTTATGCCATTTAGAAATCAGGCCACT
AGGTGGTGCAAGACCTAGCAGCAAG[C/
T]GACATCACTGGATGTCGAGTACTTCCTAATGACAGTAACAGCCCCCCCGCCAAATTATCTAAATTTTGCATTG
GTGAAAATTCAGCTCTATGGTATGGAA C/T 405 0.203 0.011
0.179 0.011 6.6% 198 62.3% 154 50.0% 56 50.0% 76
NA 0 1.5% 66 10.0% 40 8.7% 92
2.4% 42 NA 0 57.9% 76 66.7% 78 50.0% 56
50.0% 76
rs1638746 AB_ASSAYS_ON_DEMAND 7 184.225 156984178
forward LGD
CTCTGCACGCAGTTCATAATCTAGGTTGTGAGACCACACACCGGCTCATGTGCACAAGACAGTGTGCGTGGAGGG
TGACAGTGTCGGCAAAAGTGGGCTC[A/
G]GGGCTCAGAGCTGTAACTGCGGTTAAGGGGTTAGGAAGCTGGCCTTGGGCTGGATCCAGGACCCCAGAGTGAC
TCAGCCTCATGGTACAGCAGAGGGCAC A/G 1,521 0.096 0.090
0.007 0.001 68.2% 198 23.7% 156 58.6% 58 26.3% 80
NA 0 69.7% 66 77.5% 40 63.0% 92
78.6% 42 NA 0 16.7% 78 30.8% 78 58.6% 58
26.3% 80
rs1062610 AB_ASSAYS_ON_DEMAND 7 185.6742 158238030
reverse MIT
AACAAAGATTTGTGGTAACTGAAGGTGTTGGGTCAGTGGCCAGGTGCCGACACTGAGCTGTGACCCAGAGGGGAC
GCTGAGGAAGTGGGCGTGAGTGGAC[A/
G]TGTCAGGTGGTTACCAGGCACTGGTTGTTGATGGTCGGTGGTTGGGTGTGGGCAGTCATCAGTCATCAGGTGT
GCTCAGGGGACAATCTCCCCTCAACCG A/G 829 0.159 0.001
0.240 0.087 93.4% 198 45.5% 154 41.1% 56 79.5% 78
NA 0 95.5% 66 97.5% 40 90.2% 92
95.2% 42 NA 0 44.7% 76 46.2% 78 41.1% 56

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        79.5%   78
rs6995760       APPLERA_RESEQUENCING    8       1.7022  1568633 forward LGD

CCATTCAAGCCGGCTACTCCCAAGATGACGAATGTATTCCCATGATGACACCCTCTGACATCACCTCCACCATCA
GGTCAACAGCAGGTAAGGGGACGCC[A/
G]TTTTCAGCCTTCCAGCGGGGACTCTAGAGGCATACCTGTCTTCATCCTAGAAGGAGCGAGCAGCACACAGCAC
CACAGTACAATGTACTCTCCTGACATC     A/G             1,438   0.13    0.000
0.195   0.017   76.0%   196     25.0%   156     24.1%   58      12.5%   80
        NA      0       71.2%   66      75.0%   40      80.0%   90
76.2%   42      NA      0       26.9%   78      23.1%   78      24.1%   58
        12.5%   80
rs1043223       AB_ASSAYS_ON_DEMAND     8       2.8254  1940630 forward LGD

GTCCTTAAATATCAAACTCATATGCTGTTATCACTGTGATTTTACTTGTGAAATCATTCCTGTAATGTTTAGTGT
TTGAAAATGAAATATTGAAATTAGG[C/
T]TTCCAGAGTAACACTGTCCCCGGAAAAGGATATGAGAAGTGGTGGATGTTGGATGGGGGTGGTTGCACAGTCC
TGTGCGGTTCCCATGGCTTTCCAGCGT     C/T             571     0.24    0.014
0.208   0.040   6.1%    198     67.3%   156     53.4%   58      87.5%   80
        NA      0       4.5%    66      5.0%    40      7.6%    92
0.0%    42      NA      0       67.9%   78      66.7%   78      53.4%   58
        87.5%   80
rs1455640       TSCAF   8       3.7778  2306617 reverse MIT
TCTGTAGGACTTGGCCTGGAACAGCACATATCCACCTTGATGGAGGGATGCAGAGCCTGTAGTCAGGCATACGGA
GGTGCTGAAGGCTGTCTGGCTTGCT[A/
G]TGTGGGCCAGGCATAGTGGATAGTCACACTATCAGACCATCAGAGAGTGAGGCTGTCCTTTGCACAGACATGA
ATATCGTCACGTGTCCCTGCAGGAAGA     A/G             1,076   0.182   0.002
0.285   0.001   47.0%   198     100.0%  156     100.0%  56      100.0%  80
        NA      0       36.4%   66      40.0%   40      57.6%   92
50.0%   42      NA      0       100.0%  78      100.0%  78      100.0%  56
        100.0%  80
rs2045638       AB_ASSAYS_ON_DEMAND     8       5.2301  2963312 forward MIT

CTCAACGAATATTTATTGAATACATTAATAAATTACTGGATATGTTCATTTAATATTTAATGTGCTATTATGCCC
ATGAAACATTAAATCGCCCCCATGC[A/
G]AAGTGATGAACTTACCATCACATCTTGGAAAAGGGTAGTTCCAGTTTCTGTTGATCCCATGCTGACAAGTGAG
GACAGGATGGCCTATTAGAATGTACCC     A/G             199     0.283   0.014
0.534   0.092   88.8%   196     17.3%   156     6.9%    58      51.2%   80
        NA      0       86.4%   66      92.5%   40      88.9%   90
88.1%   42      NA      0       19.2%   78      15.4%   78      6.9%    58
        51.2%   80
rs922741        AB_ASSAYS_ON_DEMAND     8       6.64    3644980 forward LGD

TAATGAAAATGTCTGGGGTATAAGCATTTCACTCTGAAGTCCACTATTTGTGTAACCTTGTAAAATCACTTGACT
TTTGAACCTCAATTCTTTTGTCACT[A/
G]AAATATGGAGAAAAACATTTGCAGTTGATGCTACAGGCTTTGTGCTAAGATCCACTGAAGTATATGGCGCTAT
TTATATTGTGTATGAGTTGTTTCCATG     A/G             1,909   0.081   0.003
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0.167   0.002   59.6%   198     94.8%   154     98.3%   58      92.5%   80
        NA      0       63.6%   66      52.5%   40      59.8%   92
52.4%   42      NA      0       93.6%   78      96.1%   76      98.3%   58
        92.5%   80
rs899145        AB_ASSAYS_ON_DEMAND     8       9.6857  4571335 forward LGD

GCGGGTTCTTTAAAAAAAAAAAAAGCTTTTTGTATTCCTGAAAGATAGTTATTATCACCAAAAGCTTTCTCTTCT
AATGACTAAAAATAGAGCACTCTAC[A/
C]CTTTAGTGTAGTTCACAGAATTTGTTTTTAATACTCCAGCTCTTTGTGCTCCTTAAGTCTGCTTCACTTTTTT
TTACTTCGTTTTTCAAATAAGACCTCA     A/C             1,150   0.122   0.000
0.181   0.003   84.7%   196     37.8%   156     36.2%   58      31.2%   80
        NA      0       78.8%   66      85.0%   40      88.9%   90
85.0%   40      NA      0       35.9%   78      39.7%   78      36.2%   58
        31.2%   80
rs2442496       AB_ASSAYS_ON_DEMAND     8       14.7858 6314682 forward LGD

TTTACCAAAGAACTGATAGCTAAACCCAAAAGATTTCAAAGAATGTTTTGTTTTTGAAATGTTTCTATTTATCAC
TAATAAAACGGGTATATCTGTTTAA[C/
G]TTGACCTATCTTTGGTCTTACTAAAACAAAATCAGCTAGACCATTTCCCAAATAATCATGCATTCAATACTCT
TTTTCTCTCTCTCTCCCTGCTCCCTCA     C/G             extended_map    0.182
0.005   0.201   0.115   18.6%   194     77.9%   154     70.7%   58
38.5%   78      NA      0       21.2%   66      7.5%    40      21.6%   88
        12.5%   40      NA      0       80.8%   78      75.0%   76
70.7%   58      38.5%   78
rs1562714       AB_ASSAYS_ON_DEMAND     8       14.9991 6405655 forward MIT

CGGTATTTAGCTAGACAGCTGAAGACGGACTTTTGAAATACCATTGTGCTACTGCTGTTCAAATATTGACTAAGT
GAACCTGGAAAGGAAGAAATTTTGG[G/
T]CGCCTAACATAGAACTCGTTGTCTTTTTCTGTCTTTAAATGTTATCTCAAAGACCCAAGAGAAGGGGTAGTTT
ACCTAAGAAAGAAATATGAGCTTTGCT     G/T             445     0.21    0.018
0.238   0.009   38.4%   164     98.6%   146     92.6%   54      94.6%   74
        NA      0       41.1%   56      13.6%   22      43.0%   86
33.3%   36      NA      0       97.2%   72      100.0%  74      92.6%   54
        94.6%   74
rs2911977       AB_ASSAYS_ON_DEMAND     8       15.7019 6572054 reverse MIT

TGTCAATTCTTTTGAGTATCAGGCCAGGAAACTCATTTATTCCGGCAAGCCTGGCAGAAGACAAACTAGAAAGTC
TAAGCAGAACAACAGTCTTTGAAAT[A/
G]TTCTTTCCGCTAATTACATTTTCAGAGATACTCTGTTGTGATTCCTAACATCTCAAAAGGGTTTTAGAAGGGT
ACCTAAACACAATCAGACAATGAACCA     A/G             1,258   0.131   0.068
0.024   0.010   99.5%   186     67.9%   156     93.1%   58      78.7%   80
        NA      0       100.0%  64      100.0%  32      98.9%   90
100.0%  40      NA      0       75.6%   78      60.3%   78      93.1%   58
        78.7%   80
CV1825634       AB_ASSAYS_ON_DEMAND     8       16.1234 6740939 forward LGD
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GAAAGCTCAGTGGGTATTTGTTGATTTCAGATGCATGCATCCTTAACTGGTTTTGGCTCACTTATGCACTCATTG
ATTGAACAGCTAATTATTAGGGTCT[A/
C]AGATAATGAATATGATGTTCCATCACCTTTAGCTTGGAGAAAACATCCCATGAAATGGCCACACATTTCTTCT
GGGATGCCCCCCGTTAGCCGTCTCGGC A/C 923 0.143 0.001
0.259 0.002 49.5% 198 1.9% 156 0.0% 58 0.0% 80
NA 0 50.0% 66 40.0% 40 53.3% 92
47.6% 42 NA 0 2.6% 78 1.3% 78 0.0% 58
0.0% 80
rs922053 TSCAF 8 19.2824 9287756 forward MIT
CCAGAAAGCTCAGTCTCTCTGGAGGCTCTGATGTGGTCTCATTTTGAGCCTAAGATCAATCGTGAGACCTTACTC
TCCATCAAGACTGATTGGGAGACTC[A/
G]TGTATGCTGTTCTCAAGCCAAAAGTCAGGGTAGAACTGCTTTCCATTATTGATTACAAAAGAATCAGCCTTCC
AGAAGATAAATCTACTCCCTTCATGGA A/G 554 0.218 0.004
0.390 0.004 20.4% 196 85.5% 152 91.4% 58 80.0% 80
NA 0 18.2% 66 20.0% 40 22.2% 90
14.3% 42 NA 0 79.7% 74 91.0% 78 91.4% 58
80.0% 80
rs1060701 AB_ASSAYS_ON_DEMAND 8 21.9038 11401076
forward LGD
CAGGTTTTGGGCCAGGTGCCAGGTGCACGTGGCTCTTCATCCTGGTTCCCCACCGCACACCTGGAGAGCTGAGTG
CTTTTCCTGAGGTCACGCAGAAGGT[G/
T]ACCAGCCTGGCTCTGGAGCTGTCTCTTTGCCACATCGTGGGGTGTCTTTAAGGTGACCTTGAATGTGCTTGAA
GCTGTTTTATGTCCTATTTGCAGACCT G/T 1,214 0.157 0.006
0.311 0.048 30.6% 196 86.5% 156 93.1% 58 100.0% 80
NA 0 36.4% 66 25.0% 40 28.9% 90
47.6% 42 NA 0 85.9% 78 87.2% 78 93.1% 58
100.0% 80
CV11588431 AB_ASSAYS_ON_DEMAND 8 22.1589 11606730
forward LGD
CACTCCAGCCTGGGTGACAGAGTGAGACCCTCTCTCAAAAAAAAAAAAAAAAAAAAAAAACCAGTGCATGTGAA
TGTGCTTTTTATATGTTCTTCCCAT[C/
T]ACTTGGGCTCTCCTACCTGCCTGGCAGCTTTAGTGAGGACCAGCATCACATAGTAGCTGACCCTGAGTCATGG
AGGGAAGATGAGAACTGACCCCAGCTT C/T 344 0.22 0.218
0.011 0.321 85.4% 198 21.2% 156 75.9% 58 86.3% 80
NA 0 86.4% 66 87.5% 40 83.7% 92
83.3% 42 NA 0 23.1% 78 19.2% 78 75.9% 58
86.3% 80
CV514951 AB_ASSAYS_ON_DEMAND 8 23.553 12730715
forward LGD
AGGTTATAACCTGAGCAGACAGGAATACTCACTTTGAGCAACTGTCTAGAGCTTTCAGAGCCAGCCATACAAACA
GTCAAAATCTGATGCAGAAAGAGTA[A/
C]AAAACCCACAATGTAAAATAATGAGTAATATTTTTTAATACTGTGGTATCTGTTTCTGATTTAGGGTCAATCT
TAGTTTACAAACTGAAGCGAGAAGACA A/C 1,627 0.115 0.373
0.040 0.627 55.7% 194 9.3% 150 78.6% 56 96.3% 80
NA 0 56.1% 66 67.5% 40 50.0% 88
57.5% 40 NA 0 9.5% 74 9.2% 76 78.6% 56

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        96.3%   80
CV1121464       APPLERA_RESEQUENCING    8       25.0864 12978415
forward LGD
AGGAAACCTTAATCCACGTTTCCAAACCACCTGAGAGTTGTTACTTGTTACACCAATTATATCAAATATGGAATG
CTATTGTGTGAGTACTTCCTAGGAC[A/
G]GCGTGGATGCTATTTTAATGGCAATACTAAATAACAATATTTTACTTAGTTTTTAATTAAAAGGTCTATGATC
ACTCTATGGTTTGCCAATAAAAACCTA     A/G             1,720   0.153   0.062
0.044   0.022   4.0%    198     47.4%   154     19.0%   58      30.0%   80
        NA      0       3.0%    66      0.0%    40      6.5%    92
9.5%    42      NA      0       52.6%   76      42.3%   78      19.0%   58
        30.0%   80
rs2410025       AB_ASSAYS_ON_DEMAND     8       25.1232 12983941
forward MIT
CATGAGAAAGTTGAAGAGAGATTTAATAACTCATTTGAAGCCTGGCCGGCCTATTGTACTACTTTTCACTTCAAC
AAAAGGCCACAAAGTACCTCCACCA[A/
C]CACGCTAAAATAGAATTTATCTGAGTAAAGTCACAGGCTTTCTGACACCCAGGGGTTGGGTGTTTCAAAAGCC
CCTGACCTTGTGTTGTTTCACTGTTGC     A/C             extended_map    0.117
0.041   0.357   0.002   68.7%   198     19.9%   156     3.4%    58
15.0%   80      NA      0       74.2%   66      75.0%   40      62.0%   92
        73.8%   42      NA      0       19.2%   78      20.5%   78
3.4%    58      15.0%   80
rs1018054       TSCAF   8       26.31   15397574        forward MIT
ACTAACATTACTTAGATGTACTATCTAACGTATCAATATGTTTAGAAAAATGGCTAGGATTAAATATAAATGCCT
AATATTTCCAGCCATTGGTTTTCAA[A/
G]CTGTGTTATTGGAGCATTTAGGGATTTTCCTCTTATAATGTCTTCTGTAGAATACAGGTTGCCATATGTATAG
TAATTCTGTGAAAAAGTTTTTTTTTTT     A/G             2,148   0.056   0.027
0.011   0.024   0.0%    336     13.5%   310     1.7%    58      2.5%    80
        0.0%    138     0.0%    66      0.0%    40      0.0%    92
0.0%    42      14.9%   154     15.4%   78      9.0%    78      1.7%    58
        2.5%    80
rs958697        AB_ASSAYS_ON_DEMAND     8       27.1724 16134664
forward LGD
CAGCAGGCAGCTTTCCGTATTTCATTTCAAATGTGTTATCTGCTGATGATTTTTTGTTGATATTATCTACTGTGT
TAATAAAGCTATCATTTATTCCCAA[C/
T]TGAACCATGGACCAATTTTTGTTCTTTACAGATTTGGGCCAGATTATATATATACTTTTGTTCTTTACAGATT
TGGGACAGTTATAGGAAAATGCCTTTT     C/T             815     0.207   0.009
0.244   0.035   69.4%   196     6.6%    152     12.5%   56      21.8%   78
        NA      0       68.2%   66      85.0%   40      63.3%   90
83.3%   42      NA      0       7.9%    76      5.3%    76      12.5%   56
        21.8%   78
rs2904674       APPLERA_RESEQUENCING    8       28.8783 17073699
forward MIT
GCCTTTTTATTGCGGCAACAGATTTACAGTATTTTATCAAATTTTGGACAGTAAGTCATTAACTTGGTAACTCTT
TTTTTGGTATACAATAATAGATAAT[A/
G]TAGGCTTTTCAGAACAGAATTATTTCCGACACTGACTTTATAGACCAGAGCTCATTGACATGCAGTCAGTCCT
CATTATTCGCAGATTCTTTATTTGTTA     A/G             290     0.244   0.151
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0.040 0.104 5.7% 194 67.2% 134 21.2% 52 28.9% 76
NA 0 4.7% 64 5.0% 40 6.7% 90
7.1% 42 NA 0 61.8% 68 72.7% 66 21.2% 52
28.9% 76
rs2517263 AB_ASSAYS_ON_DEMAND 8 29.5547 17446016
forward LGD
ACAGTACATGTTTCATCTGGGTGCCTCCTGGTGTCCTCAACCCTCTCTTGAAATTCCTGGGCTACAACACAATTT
TTGCTTAGATTTAGTGGAAAAGTAG[C/
T]TTTTGCTGTTATGCAACTTCATGCTGGAGCCAGCTCGACCTGGCTCACATTTTTATCCACTCGTTCATCCTGA
CCAGTTCCTTTCTTTCCTAGGAAACTA C/T 1,292 0.14 0.002
0.162 0.003 12.6% 198 61.8% 152 57.1% 56 55.0% 80
NA 0 13.6% 66 10.0% 40 13.0% 92
14.3% 42 NA 0 58.1% 74 65.4% 78 57.1% 56
55.0% 80
CV2441943 APPLERA_RESEQUENCING 8 30.2249 17814938
forward LGD
CTACTAAAACTATATTTAGGGTTGTATATTTAATAATTTGTTATCAATGTGTATACTTTGCCATTGATAATTGAA
ACCGCAACATGGATTTTAATAGTCA[A/
G]ATACAAGTATTGTTGGTCTTATTTTCCAGGCCAGAGATCCTCAGCAGGAGCCTATGGAAGAGATAGAAAATTT
GAAGAAACAACATGATTTATTAAAAAG A/G 1,463 0.144 0.166
0.002 0.187 86.1% 194 35.3% 156 82.8% 58 85.0% 80
NA 0 83.3% 66 94.7% 38 84.4% 90
76.2% 42 NA 0 33.3% 78 37.2% 78 82.8% 58
85.0% 80
rs3850751 AB_ASSAYS_ON_DEMAND 8 30.7054 18079437
forward LGD
ATTTGCTTTTCTGGCCTGGTGCAAGTAACCCCCACCACCTGCCTGGCCCCAGTCGGCATTAAATGGGAGCAGTGA
GTGGCCTTCTGGACAAGAACAACTG[C/
T]TGAATGATGGTCTTTGGGTGCGGCTAGTCCAGCAACCCCTTTTCATCCAGAGGCCCAGTGAGCTGGCTTAGGA
GGGGGCTAGGTTGTAGTGTCAATTTAG C/T extended_map 0.082
0.076 0.004 0.023 86.2% 196 49.4% 154 81.0% 58
67.5% 80 NA 0 90.9% 66 87.5% 40 82.2% 90
95.2% 42 NA 0 50.0% 76 48.7% 78
81.0% 58 67.5% 80
CV2870211 AB_ASSAYS_ON_DEMAND 8 33.0759 19384328
forward LGD
TTTCTGAACTCATAAATATTATTTATGAGCTTGCCTGGCCCCTCAAACGTGGCATGAATCACTGCTTCTCTAGTT
AAAATGTTTTGTACCCCCATGTAGC[C/
T]GTGATCTGCATTTACACATCTCTCAACAGCTAGGCAAACTCACACTATCCTGACAAATAATCCCCATCCCGGT
GTGAGCCTTGCTCTGTCCCTGCAACTA C/T 1,600 0.117 0.019
0.295 0.017 72.4% 196 23.7% 152 10.3% 58 11.3% 80
NA 0 77.3% 66 72.5% 40 68.9% 90
88.1% 42 NA 0 21.6% 74 25.6% 78 10.3% 58
11.3% 80
rs6986805 AB_ASSAYS_ON_DEMAND 8 33.153 19426799
forward LGD

TATTAGCTAAACTGGAAATATTCTGAACATAATTTGAACTTTCCCAAAGGAAGATCATTTCCAAATATTTGATGT
TCCTTGAACTACATGCATAGGTAAA[C/
T]AGTTCTATTTCAAAGCAACTGTGGCTTTCACAACAAAAAAGCTTAATTTTTATTCCTCAGGGAACTTCAGAAT
GAAATTAAACATTTCAATGCTCTATTT C/T extended_map 0.072
0.015 0.201 0.010 63.8% 196 25.0% 156 12.5% 56
15.0% 80 NA 0 68.2% 66 55.0% 40 64.4% 90
76.2% 42 NA 0 20.5% 78 29.5% 78
12.5% 56 15.0% 80
rs285 PARRA 8 33.8773 19825462 forward MIT
TAGGGGCACCTCACCACTCCCAGCTTCTTCAGCTCTGGCCTGTCCTGCTGCCTGCAAGGGTTTTGCTTAATTCTC
AATTCAATGTCTCTTCATCTTTTAG[C/
T]AGCTGTGGGGTTTTGTTGTTGTTCTTCTGTTTTTGCTTAGTATCTGACTACTTTTTAATTATAAAAAGAGATG
TATCTAAACAAAATAGAGATTGTTATC C/T 797 0.168 0.007
0.281 0.025 97.6% 334 55.0% 302 44.8% 58 36.2% 80
99.3% 136 98.5% 66 100.0% 40 93.5% 92
90.5% 42 52.0% 148 53.8% 78 61.8% 76 44.8% 58
36.2% 80
rs1480350 TSCAF 8 34.8529 20362500 reverse MIT
GCCTCACACTTCTGCCAGGAGCCATGGAGCGACATGGCTGCTCTCCTCTCACCCTTCCCTTCAGGGGCCCCAACA
GGCTTCCCAGGCCTCAGCGGATAGA[C/
T]GTGAACTTTCCAGCCCCTGGGCTGAGGTGTCTCAAGGGACTTCTTGAATTACAGACCCAGACACCAAGAAGCC
TCCCCTTCTCCATTTGGGTGTGCTGTG C/T 1,041 0.141 0.048
0.069 0.009 65.8% 184 12.8% 156 34.5% 58 21.2% 80
NA 0 62.5% 64 66.7% 30 67.8% 90
77.5% 40 NA 0 16.7% 78 9.0% 78 34.5% 58
21.2% 80
rs4427168 APPLERA_RESEQUENCING 8 38.4824 21953426
forward LGD
ATGGAGGCCTGACTCTGTGCATCTGTTGACTTGTGACACATACAGGATGCAATCCCTGACCCAAAGCACGGCTGC
TCTCTTGGGAGCAAGAATCCCAGTC[A/
T]TGGAACAATGTCAGATGATAAATGAGAGAATCGGCTAAAATAGAATTCAGCAAGTTTGGTTTAATTTAACAAC
CATTTATTGAGCGTTTACCATGTGCTA A/T extended_map 0.079
0.033 0.028 0.048 38.4% 198 78.6% 154 58.6% 58
96.3% 80 NA 0 33.3% 66 35.0% 40 43.5% 92
40.5% 42 NA 0 78.2% 78 78.9% 76
58.6% 58 96.3% 80
rs2280522 APPLERA_RESEQUENCING 8 38.9493 22294164
forward MIT
ACACCAAGGACTAGATTTTTGCTGGAAAGAGGATGGGTAGACGGCAGAGTTACTCCATTATGCCTCTCTCCTTTC
CTAGAGTCAAGGAAGTAGTTAAGAG[A/
G]TAAGAGGGGGATCAGTAAAGATGCTTTATTTTCTTTAAAACTCATTTTCTTTTCCTGGGTCCACAGGCATTTG
GTTTCAACCCTCTGGAAGATTATTATG A/G 424 0.213 0.030
0.210 0.029 62.0% 192 1.3% 152 10.3% 58 10.5% 76
NA 0 67.2% 64 52.6% 38 62.2% 90
57.1% 42 NA 0 1.4% 74 1.3% 78 10.3% 58
10.5% 76

CV11862562 AB_ASSAYS_ON_DEMAND 8 41.2562 23206790
forward LGD
CTTCTAGAAGGAGGAAAGCTCTACGGTCTTTGACTCAGCTGGAGGTTAAGTTCAATGCAGGATTCTACAGTCTCA
CACAGAAAACCACTGGATGTGGTGT[C/
G]AGGCCCTGGGCTAGTGAGGGCTATCATTTCTTCCAGGCTGTGATCAGTGACCTCACCACATTCCTTTCTGTGG
GGTGATGGCCCAACATCTGACACTATG C/G 1,183 0.126 0.047
0.049 0.005 78.1% 196 28.2% 156 53.4% 58 35.9% 78
NA 0 81.8% 66 80.0% 40 74.4% 90
70.0% 40 NA 0 33.3% 78 23.1% 78 53.4% 58
35.9% 78
rs998559 AB_ASSAYS_ON_DEMAND 8 42.3181 24024134
forward MIT
AGAAGATGGATGGTAAAGGAAAGAAATACATTAGGTTAGCACCTAGACAGAGAGGAAGAATCAGGTAATGTTTGT
CTGTCTGCATTAAATAATTGAGCAC[A/
G]TTATCCATGAGCTTTTAACTGTGAATCTCTGGATACATGACTCTTATTGATGGTACCTTCTCTTCACTCCCAC
AGCTTTATTTGATTAATGATGCTTATT A/G 1,465 0.114 0.003
0.229 0.027 54.6% 196 96.8% 156 100.0% 58 86.3% 80
NA 0 46.9% 64 52.5% 40 60.9% 92
50.0% 42 NA 0 98.7% 78 94.9% 78 100.0% 58
86.3% 80
rs4871930 AB_ASSAYS_ON_DEMAND 8 43.2135 24713323
forward LGD
GCAGCAAAAAGGTTGATGCGCTTTCCCCACCCTGCACAAAACAGCAGCTAAGACTTGGTGGGAACACCTGGGTAA
TGCCGTCAATGCTAATGGAACACAA[A/
G]CTCCTGCATTAGAAAAACAGGATACCCAGAATAGTAGCTCACCCTTCCTTAATAATCATCTGGAAGAGATTAG
CATTTTAACTGAAGGTGTAAGTAAAGC A/G extended_map 0.175
0.108 0.597 0.017 88.9% 198 34.0% 156 3.4% 58
20.0% 80 NA 0 93.9% 66 85.0% 40 87.0% 92
95.2% 42 NA 0 32.1% 78 35.9% 78
3.4% 58 20.0% 80
rs1485747 AB_ASSAYS_ON_DEMAND 8 44.5355 25869783
forward LGD
CTTCCTCTGAGTTTAAAATACCCTATTTATATGTGGATTGTTATATTACATAATAATAAGAAAGGTCTGTTAAGT
CAAAACTTTACAAGATCATATGTAA[C/
T]GTTGTTTTAAACAGAAAGCTTAAAATGAGCAATGTTCAGTATAATCCAAGAACCCTCCTCAATGTCAATCTGG
GATGAAAAATTAAAAGCCAGATTTAGC C/T 441 0.197 0.020
0.180 0.117 27.6% 196 89.6% 154 77.6% 58 53.7% 80
NA 0 24.2% 66 25.0% 40 31.1% 90
42.5% 40 NA 0 88.5% 78 90.8% 76 77.6% 58
53.7% 80
rs1045510 APPLERA_RESEQUENCING 8 46.42 27277038
forward MIT
GGGCTCTTTCAGGGCTGACCCTCTGCTGTCTCTGCAGGACTGCAATGTGCCGATCTTAGCTGCTGCCTGAGAGGA
TGTCTGGGGTGTCCGAGCCCCTGAG[C/
T]CGAGTAAAGTTGGGCACGTTACGCCGGCCTGAAGGCCCTGCAGAGCCCATGGTGGTGGTACCAGTAGATGTGG
AAAAGGAGGACGTGCGTATCCTCAAGG C/T 1,863 0.064 0.016

0.031 0.021 87.2% 180 55.8% 154 70.7% 58 72.5% 80
NA 0 90.6% 64 75.0% 28 88.6% 88
85.0% 40 NA 0 53.9% 76 57.7% 78 70.7% 58
72.5% 80
rs4732640 AB_ASSAYS_ON_DEMAND 8 47.8478 28234548
forward LGD
AACATAAAGCAAAACGTTATCTATAAGTTATAAGTTAATGTGTAAGTTGTGACTCCATCTTTGATCATAAGTTTT
TCTAGGACACAGGCAATAAATACAC[A/
T]TTCTATACCATGAAAATAAAGTACTGCTCTACAAATGCACGGCACTCAGAGCTTACAAGTGAACTTTTAAGAA
ATATTTATAATCCTGTTTTCTATACAT A/T 924 0.228 0.155
0.028 0.116 2.5% 198 56.4% 156 12.1% 58 17.5% 80
NA 0 3.0% 66 0.0% 40 3.3% 92
2.5% 40 NA 0 62.8% 78 50.0% 78 12.1% 58
17.5% 80
rs876058 AB_ASSAYS_ON_DEMAND 8 49.2918 29047343
forward LGD
TGTCATGAAACCTACCTTTATTTCGGTTTAACACAAATTAATTCTAAGTCATCTGCCCTATTTTATAGGCAAGAT
GATACCACAAGAACACAGACTACTC[A/
G]GAATAAAAAAGGACTCCTTAAATGCCTCCAACATCTTCCTCCTTAGAGGAACAAGCATGATACTTACTTGGCA
ACCTCCTCCACAACCCCCTGTACTGGG A/G 1,794 0.127 0.063
0.036 0.159 75.0% 196 24.4% 156 53.4% 58 71.3% 80
NA 0 80.3% 66 82.5% 40 67.8% 90
69.0% 42 NA 0 24.4% 78 24.4% 78 53.4% 58
71.3% 80
CV444094 AB_ASSAYS_ON_DEMAND 8 50.1291 29518674
forward LGD
CTTAATTGAAGGTGATTTTGAAAGAAAAAAAATTTTAAAGACTTTGTTTCCAAAGAGAGATAGAGAGGAGGTTAG
TTTGTTGGGTCAGGCTGAGTTGGAC[G/
T]CTTGGCAATTCTGAGTTTCTTTCTCCACAGATATTTACCTTTCAAGGGGTTGAATTTCTTATTCTTCCCCAGT
AAAAGTAACTGATGATGGTTAAGAACA G/T extended_map 0.082
0.003 0.156 0.024 78.4% 194 38.5% 156 32.1% 56
21.1% 76 NA 0 71.2% 66 76.3% 38 84.4% 90
90.0% 40 NA 0 33.3% 78 43.6% 78
32.1% 56 21.1% 76
rs2938204 AB_ASSAYS_ON_DEMAND 8 51.3775 30188474
reverse MIT
AATGAAAGTAGAGCAGGGTGCAAGGGCCCCATTAAGAGATAAGCAGCATATTACTCCTTTGTTGTCTAGCTCTCT
TCCTCTAGCCTAGAAAACCATTATC[C/
T]GGCCTCCCCAGGTATAGGGTATCTATTCTCTCTTCAGCCTATTGTTTATGACCCTAATTTTATGATTCCTTAA
TGATTTCCTTTTGACACTTAAAACCAA C/T 1,170 0.203 0.132
0.040 0.039 20.9% 196 84.0% 156 42.9% 56 63.7% 80
NA 0 18.2% 66 17.5% 40 24.4% 90
26.2% 42 NA 0 83.3% 78 84.6% 78 42.9% 56
63.7% 80
rs4733518 AB_ASSAYS_ON_DEMAND 8 52.2551 30731579
forward LGD

CCAAACTGCATTTAATCTTAGGTTTATAGGCCAGATCTAATTTTCTTTTTTGACCTAGAGGTTTTCTTATTGTTA
TTCTGTTTACCTCTCTCCTTTTGGT[C/
T]AAATAATTAAAAAGAAATCTTCCACAGATTATTTGCCTTAAAAGTACATGTGAGATTTTCTTCCTACTTAATT
GACTAGGCTCTTTTAAAATATATAAAC C/T 70 0.369 0.000
0.564 0.088 15.8% 196 97.4% 154 98.3% 58 73.8% 80
NA 0 14.1% 64 5.0% 40 21.7% 92
21.4% 42 NA 0 97.4% 78 97.4% 76 98.3% 58
73.8% 80
rs323342 APPLERA_RESEQUENCING 8 52.2771 30756871
forward MIT
GATAATGGTCAAGAAGACAGGCTTTGTTAGCCACTTTTTAATATTCACTACACGGGGCATAGGCTTGTTATACAG
AAAAGCTACTCAATAAATATTGGTC[A/
T]CTCACTCAGTGTTCATAATATTGAACTCCTTCTTAAGAAGCTTTTAAAATCCACGTCCTTCCAAAAAATGTTT
TCTAAGTTAAAACATTTACGTTTAAAA A/T extended_map 0.336
0.060 0.194 0.004 2.8% 180 73.2% 142 44.4% 54
80.0% 80 NA 0 0.0% 64 0.0% 28 5.7% 88
2.5% 40 NA 0 74.3% 74 72.1% 68
44.4% 54 80.0% 80
rs323376 AB_ASSAYS_ON_DEMAND 8 52.3052 30789197
forward MIT
CTGGGTACTTGTTCTAACTTTTCTATAACACTAACAGGGAGAAATAACTTGTTTGAAAGGACAAAAATTTTAATG
TCCAAAATAAGCAAAACCAAAGAAC[A/
C]GTGTCAGGAATTCATTTTTGATCAAAGTGTTTTTCAACTTGGAAGTCATTGGATATACCCAGTCCTTTTTACC
TACAAAACTGTGTTTTTAAGAGGAAAG A/C extended_map 0.286
0.148 0.082 0.006 14.3% 196 87.3% 142 44.8% 58
93.4% 76 NA 0 10.6% 66 7.9% 38 19.6% 92
14.3% 42 NA 0 87.8% 74 86.8% 68
44.8% 58 93.4% 76
rs1023911 TSCAF 8 52.9858 31882800 reverse MIT
TGCCTTGGTAGTACTGCTGCCTTCTTGCTGTCACTTGGTGCCACTGCACAGAACTGCTGCCTGGTTCCTGTTCCT
TCCTCACCCTGCCTTCTGGTTTTCA[C/
T]GGAATTTTGGATGCCTGATTGCATGCTAAGCCTTAACAAATTGTCTTGCTTGGATTTATGGAAACTACTTATC
CAGGGCTCTTTCCTTGTTGCCAGGTTT C/T 594 0.247 0.004
0.295 0.122 84.6% 266 16.7% 276 21.7% 46 56.0% 50
87.0% 138 88.5% 52 72.2% 18 79.3% 58
83.3% 36 14.7% 150 23.3% 60 15.2% 66 21.7% 46
56.0% 50
rs1462906 AB_ASSAYS_ON_DEMAND 8 53.0281 31954260
forward MIT
AATGTTCAATGTCATTACATTGAACACTGACCGGACAAGTAAGCTGGAACTGTATGGTTATATTCACAAATTCTG
GGATGTTTGTTTTGGCTTTGTGTTA[C/
T]AATTGCAGCTACGAAACTAAAAGTGAACAAATTGCTTTCTCATTTAATTTCTTTTTATCATGTCTAAGTCTCA
GTATTTTTATTTGTAGAATTGTGTTAA C/T extended_map 0.369
0.031 0.422 0.009 80.6% 196 0.0% 154 7.1% 56
2.6% 78 NA 0 81.8% 66 78.9% 38 80.4% 92
83.3% 42 NA 0 0.0% 76 0.0% 78

7.1%	56	2.6%	78
rs1481765	TSCAF	8	53.1359	32136639	forward	MIT
TTCCCTCTAATCTAGAGAGTTAACCTCCTCCAGGTAGGGTTGAAAATATGAACAGAGCTGCTTTTGCAAGACTGT
GTTGCCTCTAAATGTGATTTAACTC[A/
G]CATATTCAGAATCTTAGCAAAAATAAATAAATAAATAGTAAGATGGGGTAAGGCAAATACATAGATATTTTGG
AGATCTTATCCCTTATTCAAGGACTGT	A/G	1,356	0.168	0.001
0.290	0.022	35.7%	182	92.3%	156	94.8%	58	100.0%	80
	NA	0	22.6%	62	46.7%	30	41.1%	90
47.5%	40	NA	0	89.7%	78	94.9%	78	94.8%	58
	100.0%	80
rs873893	AB_ASSAYS_ON_DEMAND	8	54.5629	35384017
forward	MIT
GTGATTGCAGTCACATTTTGCCATCATTCCTGAATAGCAATACATGGTGTCATTGAAAACACCTCCTGGCAAAGA
AGGTGTGATTTCCACGGGACAATGC[G/
T]GATGACTTTTTAATTAAGATTCTTGTCTTCAGCCTGCTGCCTTACCAGGTGAGTTAGAAGAAAACTGAGGGTG
TGGGAGTGCTTGGGAAACAAGAGAGCC	G/T	extended_map	0.218
0.051	0.112	0.004	90.8%	196	30.1%	156	56.9%	58
37.5%	80	NA	0	90.9%	66	92.1%	38	90.2%	92
	85.7%	42	NA	0	29.5%	78	30.8%	78
56.9%	58	37.5%	80
CV9317986	AB_ASSAYS_ON_DEMAND	8	58.2315	40031179
forward	LGD
GGAGACAAATTAAAAAGCAATTTGGATGCACTCCACAATGGTATGGAGAATAATAACACATCCAGTAGATTATCA
CAAACGTGTCATCTTTACCATTCAT[G/
T]GAGAACAAAAGTTGGAATCAATTTAATTGCATAAGGATGATTTTTAGCTTCATAATACATTCATTACTTAATG
TGAGGTGAAAATAAACATCAGTAGAAC	G/T	335	0.224	0.001
0.299	0.000	14.6%	198	79.3%	150	77.6%	58	77.5%	80
	NA	0	9.1%	66	15.0%	40	18.5%	92
23.8%	42	NA	0	83.8%	74	75.0%	76	77.6%	58
	77.5%	80
rs7835812	APPLERA_RESEQUENCING	8	60.4109	41565051
forward	LGD
CATGAGCATGTGGAGGAGAGCTCAGCACCTTTGCATGCCTCGGGGGACTCTAAGCTTCCACCAGGAAGAAGCCCC
TTGGAAGTGCTGGACCTGGGGTCTG[C/
T]TTGGGGACCTCCTACAGGGAAGCCGTCTCGGGCCAAGGCTCCTCGGCAGGTGCCAGCTCACCTTGGCGCAGGG
GGGCATGGTGATGTTCAGGTGGCAGAG	C/T	2,034	0.141	0.007
0.295	0.006	45.9%	196	95.5%	154	100.0%	58	91.2%	80
	NA	0	50.0%	66	35.0%	40	47.8%	90
31.0%	42	NA	0	93.6%	78	97.4%	76	100.0%	58
	91.2%	80
rs2294097	AB_ASSAYS_ON_DEMAND	8	60.9599	42165262
forward	MIT
GAGGCTCCCACGGCTGCCAGGTGCACAGCCTGTCTGGGCAGGTGGGACACCAGGAAGAGGGATGGGGAGACCTTT
CACTTCTGTCATCATCAGGAAGCTT[A/
G]GGGAGCCCCAGTGACTCCAGCAGGGCTGCTTTGCCTCTCAGATCCTCTGTTCCCTGCCCACCTGGGGCTGGTG
TGTGTGTGAGTCAGAGGCGCTTCCGAG	A/G	1,812	0.229	0.005

0.425 0.006 27.6% 196 93.6% 156 98.3% 58 88.7% 80
NA 0 16.7% 66 23.7% 38 37.0% 92
21.1% 38 NA 0 94.9% 78 92.3% 78 98.3% 58
88.7% 80
CV40471 AB_ASSAYS_ON_DEMAND 8 61.14 43153969 forward LGD

AAAGCACTCATGGTGGTGAGCGAGAGCCCGAGGTGGAATTCCAGGGCCGGTCTCAGAACAACGCCTTGATTGCCG
TGATTCGAAGAGCTATCTCAAAACA[C/
T]TTCGCTTCAGTGAAGTGCCTGAGAAGAAACACTCGTCACAACTCACTCTGCTGCTGACACTGGATGTACTCAC
CTTAGGTCCTCCCACTGCCAGGCTGCC C/T extended_map 0.106
0.104 0.008 0.028 59.1% 198 13.5% 156 48.3% 58
29.5% 78 NA 0 63.6% 66 47.5% 40 60.9% 92
73.8% 42 NA 0 17.9% 78 9.0% 78
48.3% 58 29.5% 78
rs7819806 APPLERA_RESEQUENCING 8 62.0672 48123369
forward LGD
CTGCAGGCCTCTGACACCTTCTCAACGGCCTGCTTCTCAACCTGCAGCAGCTGCTGGATGCCCTGTGACTGACTG
GCTATGACAGTGGTGATTCTGAGAC[A/
C]AAGGCAAGTGGCCTAAATCAGTTCAAAGGACCCTGGGGTCAGCTGACCCACCCAACCACAGTCTGCACCTGCG
CCCTGCCACCTCTCATTTCTTACAAGT A/C 1,650 0.264 0.038
0.168 0.001 96.0% 198 33.8% 154 56.9% 58 30.0% 80
NA 0 100.0% 66 97.5% 40 92.4% 92
97.6% 42 NA 0 34.6% 78 32.9% 76 56.9% 58
30.0% 80
CV25473993 APPLERA_RESEQUENCING 8 62.2314 48932859
forward LGD
CTCTGGTCTAAACTTAGGTTTCTAAACAGAAGAGGCCACACAGTGTCAGAATAGGGACTTGCATGGCCACCATTC
TGGTGTAATGATAGGTGCTGATGAA[C/
T]TGGTCAGTGATAACTTAAAGCATATCAAGCACTTTCACGAGCCTTTTTATACCTTCCTGTGATTTCTTAATTG
TAGTTCTTTATAAGAGAGAAAAGTACC C/T 1,988 0.18 0.238
0.003 0.025 64.6% 198 6.5% 154 58.6% 58 18.8% 80
NA 0 66.7% 66 70.0% 40 60.9% 92
57.1% 42 NA 0 6.4% 78 6.6% 76 58.6% 58
18.8% 80
rs900237 AB_ASSAYS_ON_DEMAND 8 62.2236 49646101
forward LGD
CTAGGTAGAGTCATAGATCACCTCCTTCTCCAATTTTAAGACATAAAAATGCAGGTGACCCCTTGTGTAAGGTCA
GTGGGTCACATCCACAGACCCCTCT[C/
T]AATCTTCTGGTTCTAGATTGTTCTAGAAGAAAACGTGAGTTAAGTGGAACCCAGTCTCATTTCTGAGGCTCTG
CAGGTTTCTTAAGCTTATATGGAAGCC C/T 943 0.286 0.104
0.108 0.001 92.3% 196 22.7% 154 60.3% 58 25.0% 80
NA 0 93.9% 66 90.0% 40 92.2% 90
85.7% 42 NA 0 26.9% 78 18.4% 76 60.3% 58
25.0% 80
rs2047304 AB_ASSAYS_ON_DEMAND 8 62.89 50594942
forward MIT

TGCTAGCTGCACAAGGGAGGTGTGAGCCTCTCCAAATGCATATCACTGATGTCACTCATGATTTCTACAAAGAAA
GGAGTTGTGACAGCCGTCTATGGAG[A/
C]CTTGAAGATGTGGAAAAAGTCACTGTGTCAGCGAGCTCTGCTCTACGACTTCTCCCACTGTAGGACGCTCTTC
CTCCAGGCGATGCTGCTGGTCCTCAGA A/C 1,492 0.249 0.012
0.261 0.002 18.2% 198 87.2% 156 77.6% 58 83.8% 80
NA 0 16.7% 66 27.5% 40 15.2% 92
19.0% 42 NA 0 87.2% 78 87.2% 78 77.6% 58
83.8% 80
rs2170373 AB_ASSAYS_ON_DEMAND 8 62.9108 51397437
forward LGD
ATTTTCTTTCCATTATTGTTCTACAAACAATAATGTATTGGTTTCTGTAACACAAAATTAATACAAACAATTTTC
CAATGATAATCTCTTTAGTTTCTGC[A/
T]TGATTTCCACTTCTTCCTAACTTTTTTCCATACAAATCTCAAAATTTCAATACCTGAGATATGTGATGCCAAC
TTTTTTTTGGTGTCATGTATATTTTTC A/T extended_map 0.188
0.002 0.248 0.000 24.7% 198 85.7% 154 82.8% 58
87.5% 80 NA 0 18.2% 66 37.5% 40 23.9% 92
19.0% 42 NA 0 84.6% 78 86.8% 76
82.8% 58 87.5% 80
rs2623220 AB_ASSAYS_ON_DEMAND 8 63.0814 51503334
forward LGD
ATATGATGCTTGATAATTATGGCATGTCCAGTACCTTTGGAAATGTTTCTTGCCTTTAAGTCTATCTGTATTAGG
ATAAATAAAAAACAGATTTCTATTT[A/
G]TTAATATCTACTTGTATATTCTTCTATCCTATTCTTTAAACTTTTATTAGTCTTACTGTATAAAATATGCCCC
TTCTGCATTAAATATATATGTATATAT A/G 1,172 0.286 0.000
0.397 0.014 7.1% 196 76.3% 152 77.6% 58 87.5% 80
NA 0 9.1% 66 0.0% 38 8.7% 92
4.8% 42 NA 0 81.6% 76 71.1% 76 77.6% 58
87.5% 80
CV9319301 AB_ASSAYS_ON_DEMAND 8 64.48 52792064
forward LGD
TCTGGGATGTGCCTACTTTAGTCTGGGAGTCACACACATTGACTAGGCTCTATTCACCATGTATTTACAGGTAGA
CTCCCATGGTGGCAGGCTGGTGCCA[C/
G]TGCCTGAAACTGGGTGGGTGGTTGGGTCTGCCTAATGTAAGGGTTGTGAAACCCGGTCTCTACTAAATATAAA
AAACTAGCCGAGCATGGTGGTGGGAGC C/G 41 0.391 0.005
0.468 0.008 92.4% 198 10.3% 156 15.5% 58 17.5% 80
NA 0 90.9% 66 90.0% 40 94.6% 92
90.5% 42 NA 0 10.3% 78 10.3% 78 15.5% 58
17.5% 80
CV2070643 AB_ASSAYS_ON_DEMAND 8 65.5307 53339847
forward LGD
TACCCATTCAAGTAAGATTCAATAAAGAACCCATAGGACAACTAGCTTTGTTCTTTTCTGGTGTTTATGCTTCTA
CCTATAACTGATTTAGTACAACACA[A/
G]CCTCACAACCCTAGATCTATGTGGTGACTGATAAATCGAGATATTTAGTTACTGTTCTATAAGTTGACATGGG
CCAAATGATGGGAAGGAACAGCTCCAA A/G 525 0.29 0.002
0.415 0.093 22.7% 194 96.1% 154 94.8% 58 70.0% 80
NA 0 19.7% 66 12.5% 40 29.5% 88

19.0%	42	NA	0	96.2%	78	96.1%	76	94.8%	58
	70.0%	80
rs2128819	AB_ASSAYS_ON_DEMAND	8	67.4018	54856922
reverse	MIT
CTCCAGGGCATTACGTTGTCCCACAGGGCCTTAGCATTCCCAAGACAGTTCTCTGGGCTAAGCTGACAGAATGTT
TTTGTCTGCAGTTCCTAGGATGTGC[A/
G]TGGGAGAATCTCTGCTCCTCGAGGTTTTAGTTTTCTACAGTTTGCACCAAAATATCTACTGAATTTTAGATCT
CCCTCCCCCTTGGTGTGAAGTGTCAAA	A/G	1,754	0.217	0.004
0.317	0.023	61.2%	196	0.6%	156	1.8%	56	7.5%	80
	NA	0	65.2%	66	50.0%	40	63.3%	90
54.8%	42	NA	0	1.3%	78	0.0%	78	1.8%	56
	7.5%	80
rs6473899	AB_ASSAYS_ON_DEMAND	8	67.4109	54962793
forward	LGD
TTGGATCCTTATAATAGCAAATTATATTAAGATACATACATCTTCAGATCAAACACTAGACTCATTAATGTTCTT
ATCATCAAGATCTAGAAGCATAAAA[C/
T]TCACTACTGTAATAAGTCTGGTTAACTAGAAAAATGCAATCAATCTTTCCACAAGGGAGAAGTGAAGATAAAC
GAGGATAAAATATATAATGTTGTATAT	C/T	extended_map	0.206
0.001	0.361	0.002	38.0%	192	98.0%	152	100.0%	58
100.0%	78	NA	0	37.1%	62	31.6%	38	41.3%	92
	55.0%	40	NA	0	96.2%	78	100.0%	74
100.0%	58	100.0%	78
CV2826252	AB_ASSAYS_ON_DEMAND	8	70.622	59028766
forward	LGD
TGAGGAAGAACAAAAACTAGGCTTTGAGAAGACACTCCAAGATGCACAACTGACTTCTAAACCGAGCCCTGCAGA
GAAGACTCGTGCAGTCTGCTCAGGG[C/
T]TTTTGTACCCAGCAAGGTCATTGTCCAACACTATTATCCCTCTCAGCGGGCGACCTCCCTGAGAACTCACACT
CGGTGTTCGGGGCTGATGCGCAGGTAC	C/T	extended_map	0.214
0.015	0.436	0.017	14.6%	198	77.9%	154	89.7%	58
90.0%	80	NA	0	10.6%	66	15.0%	40	17.4%	92
	16.7%	42	NA	0	78.2%	78	77.6%	76
89.7%	58	90.0%	80
CV3036480	AB_ASSAYS_ON_DEMAND	8	71.7399	60035753
forward	LGD
CTAAACAGTGACAAACTGAGTCGAATTCCTTAACAAAGGCTTCAACTACTAACACACAATACTTATAACTGATAC
TTGGGAACATGTAAACCTCTATCTG[C/
T]GCTTCTGTTTATCATCTTAGAAGGAGTTAGAAACATCTCAGGGACCAGGATTAATGAAATTTGTTCAGATTCC
ATAACCATTGTAACTTATGCATTTTGT	C/T	313	0.235	0.055
0.150	0.017	76.6%	192	9.2%	152	31.0%	58	20.0%	80
	NA	0	83.3%	66	65.0%	40	76.7%	86
71.4%	42	NA	0	7.9%	76	10.5%	76	31.0%	58
	20.0%	80
rs4406382	APPLERA_RESEQUENCING	8	72.0732	60575044
forward	LGD
AGTAGAGACTTGAACTGTCTTTTGATGCCAATCAGTAATGTCAACATCATACAGTGGTTTTCCAGATGTGGCCAC
AAACCATCTGCATGAGAATTATACA[C/

G]ACTCCTGCCAGAATTCTCCATTTTAAGGAAATGACCCTAGTGATCATCTTTCTACATTTTTACACAAAAATGC
TATACTTTCTATGTTCTGTAGTTGCCT C/G 1,961 0.12 0.040
0.346 0.053 89.3% 196 45.5% 156 22.4% 58 72.5% 80
NA 0 87.9% 66 87.5% 40 91.1% 90
81.0% 42 NA 0 44.9% 78 46.2% 78 22.4% 58
72.5% 80
rs472799 APPLERA_RESEQUENCING 8 72.3644 60930122
reverse MIT
AATGTGCATTTCCCCCTTACAGTCTCCATGTTTTAAATTAATTAAATGAACTTTAAAATATTTTAAGAACTCAGT
ACTGAGTACTTCTTCAGCGTGTTTT[C/
T]AAAATGGGACTCTTTGGCATACTTTAAAGCCCTGTTAGTTGAGTGTGTGAGTGTGTGTGTGTGTGTGAGAG
AGAGACAGCATGCATGCATGTATGTGT C/T extended_map 0.057
0.057 0.260 0.023 84.8% 178 54.2% 144 25.9% 54
71.8% 78 NA 0 86.2% 58 75.0% 32 87.5% 88
85.0% 40 NA 0 50.0% 74 58.6% 70
25.9% 54 71.8% 78
rs625979 AB_ASSAYS_ON_DEMAND 8 73.2149 61609617
forward LGD
AAAATTCAATTTTGAAACCCTAGAAAGCTGATTTAGGAAAAGAATCAACAGAAGAAAGAAACTTATTTTCAGTTA
TTATTCAGCTATTACTTTCCCATGT[G/
T]CTACCATAAGTGAGGCTTTGTGCTAAGCACCAAAAAGGTACAGATGAGTAAGACACCCTCTTTGACCTCAAGG
AACTTCCAGTTTTGGAAACGCAAGGCA G/T extended_map 0.241
0.010 0.208 0.061 98.5% 198 44.9% 156 56.9% 58
73.8% 80 NA 0 100.0% 66 95.0% 40 98.9% 92
92.9% 42 NA 0 42.3% 78 47.4% 78
56.9% 58 73.8% 80
rs1017861 AB_ASSAYS_ON_DEMAND 8 73.3016 61668674
forward MIT
GCATTCTAAAAGGATACATTTTTTTTTTTTAATGGTCCTGAGCTATGCAGTTCCAAAGGACATGGAGAATCTAAT
GGAAACACACAGACCCTTTTACACC[A/
G]TGGTGATTACATTCATTGGATCTGATTGCTGTTGAGTGATGTAGCAAGCTTGCTGATTCATATTTTTTTTGTG
TGAAATTATTTAAAGTTTGAATTTGGG A/G 1,095 0.317 0.001
0.371 0.004 2.0% 198 68.2% 154 65.5% 58 75.0% 80
NA 0 0.0% 66 0.0% 40 4.3% 92
2.4% 42 NA 0 73.7% 76 62.8% 78 65.5% 58
75.0% 80
CV56486 AB_ASSAYS_ON_DEMAND 8 73.427 61754016 forward LGD

TTGTGGTTCTGTATCTGCGTCAAGCAGCTCAGTGGCCTTATCTTCAATATTGCAATGTTGGTTTAAGGAATGTTA
CTTCTTAAAGACATTCTCATCCCCC[C/
T]GACCTAGAACAGTGGCCCTTTTCATACATTCCAGCTTCTGTTGTAATTTGGAAGAGGAATATATGTCTGTGTT
TTGAGTTTGACATTATAAAAGACTAGT C/T extended_map 0.277
0.003 0.304 0.015 4.0% 198 68.2% 154 62.1% 58
81.2% 80 NA 0 0.0% 66 0.0% 40 8.7% 92
0.0% 42 NA 0 74.4% 78 61.8% 76
62.1% 58 81.2% 80

rs7840370 AB_ASSAYS_ON_DEMAND 8 74.7734 62484434
forward LGD
TTTGTGAGGGCTATTCATGGAACTGATATCCTGGGTTGTATCTTTTATAAATTTCAAGGCTCTGCTTCTGGGGCA
ACAACAGGTTCCATCTTGCATGACA[A/
G]TTCTGATCAGTTGCTAGCAGCCACCTAGAACACTGCGTTGAGAAGGACTTAGAGGTTCAGCCTCAGCTTATTC
AGAAAGGCTGTTGGGGTCAGTTAGCAC A/G 1,493 0.255 0.015
0.476 0.031 7.1% 198 71.7% 152 84.5% 58 51.4% 74
NA 0 1.5% 66 17.5% 40 6.5% 92
4.8% 42 NA 0 71.8% 78 71.6% 74 84.5% 58
51.4% 74
rs2357579 AB_ASSAYS_ON_DEMAND 8 76.9027 66976158
forward LGD
AAAGACCACGTGTTAAATGAAGTCTTTCTAGTGTCTCCTGAGAAGACATGATCTTTTCCTTCTTTAAATCCATAG
AGCATCTATTTTTTCTCTATAATAA[A/
T]GCTAATAATAGTAAAAATCACACTGCCTTGTGATTGAGAACTTCCACTATGCTTCAACCATGCTAAAGTCTAC
AGCCGGTGTCTTTCTTCTTTGCAGCAC A/T 474 0.314 0.005
0.486 0.081 3.2% 190 71.2% 156 79.3% 58 96.2% 78
NA 0 0.0% 66 0.0% 40 7.1% 84
2.5% 40 NA 0 71.8% 78 70.5% 78 79.3% 58
96.2% 78
rs3176921 PARRA 8 76.9717 67141340 reverse MIT
AAAATCTTTGCCGCACCCCTTACTAACCCCGGTTTGTGCCCCTTCACTATGGGAGTAGCTCTTGTCATCATCTAA
AAAACTTGAACTGCATTTTGAGAGA[C/
T]TTATTGGCCTTGCTTCTGCAGGCTCATAACTCCTTTATGTGCTTGCTCTTGGGAGGAAAAAGCAGATAGACGT
TTAAAAGCTGGATGTTCCTGCACACCC C/T 869 0.252 0.006
0.464 0.018 24.1% 328 92.9% 312 98.3% 58 100.0% 80
22.3% 130 22.7% 66 12.5% 40 32.6% 92
16.7% 42 92.9% 156 92.3% 78 93.6% 78 98.3% 58
100.0% 80
CV2056528 AB_ASSAYS_ON_DEMAND 8 77.1608 67815143
forward LGD
TTTTTCTCTTTAGACTAAGTATCTTAGCAGAATTTAATTACATTCAAATAAATATATCATCAAGCATGTTGAAGA
ATGTTGAAGGGACTCCTAAGCAACA[C/
T]TGGAAATGGAAACAGTATTGACTTCAGACTCAGATAGCTCCAGCATTGGATCCCTGCTCTTCTATGATTAACT
AGAAGTTAAGCTTCTCTATACTTTTTT C/T extended_map 0.193
0.002 0.312 0.001 87.9% 190 29.2% 154 24.1% 58
32.5% 80 NA 0 91.7% 60 90.0% 40 84.4% 90
83.3% 42 NA 0 31.6% 76 26.9% 78
24.1% 58 32.5% 80
CV1641447 AB_ASSAYS_ON_DEMAND 8 77.5181 68250992
forward LGD
GCACTCCACCCTGGGTGACAGAGCAAGACGACGTCTCAAAAAAAAAAAAGTAATTAAAGCTTGTTTCGATTACTTA
GGCTCATCAATAGTAAGATCAACAT[G/
T]GTACTCTATGGTGAGGTCCCTGAAGAAGCATCTGGGCCTTCCCCAGTACTTTCTGGCCCTTCCTATTTTTTCA
CCAACATAATCTACATATCTAATGTAA G/T extended_map 0.279
0.001 0.387 0.004 96.4% 192 32.5% 154 29.3% 58

40.0% 80 NA 0 97.0% 66 92.1% 38 97.7% 88
90.0% 40 NA 0 31.6% 76 33.3% 78
29.3% 58 40.0% 80
rs7837952 AB_ASSAYS_ON_DEMAND 8 77.6376 68396654
forward LGD
AGCAATTCATCTAACTTCTCATTTATGGAAATCAGTACAAAAGTTCTAAGGTGATTGAAGTTCCCATGCACAACA
GGAGGGCCTGAATAGAAACCAGGTA[C/
G]TGATTTTTCAACTGAACATGCACAAACCACTCTAAAGAAATTGCTCTATCAGCTGTCACTTCTAGCTGCACCT
AGCAGCTAGAACAATAGTACAGCAAGT C/G 58 0.373 0.012
0.416 0.004 9.7% 196 91.0% 156 82.8% 58 86.3% 80
NA 0 9.1% 66 12.5% 40 8.9% 90
16.7% 42 NA 0 88.5% 78 93.6% 78 82.8% 58
86.3% 80
rs2553664 AB_ASSAYS_ON_DEMAND 8 77.892 68706992
forward LGD
ATGAGCTTCTTTTTTCCAGATCTCTAAAGGGGTCACAAATTATCGGAGGTAAAGTTGAGATCTTGTATGTCCAGG
CCAAAAGGCAGCCCTGGGATGTTAA[C/
T]TCCTTTCCGTTCCTCCCAGAAATACTGGGGTGGAAAAATCCGTGATCATATTGCCATCTATAGCCCCTACCTC
AGCCAACACCTCCATCTCATCCTGCCT C/T extended_map 0.175
0.014 0.363 0.010 14.6% 192 71.4% 154 83.9% 56
60.0% 80 NA 0 23.4% 64 10.5% 38 10.0% 90
28.6% 42 NA 0 71.8% 78 71.1% 76
83.9% 56 60.0% 80
rs2030742 AB_ASSAYS_ON_DEMAND 8 78.3122 69178307
forward MIT
GTGTTAATAATAATAATGAATTCTCTGTAATGAGAAAGCTGCCTCTCAAGTCATTTAACAGCCAGTGGAACTTAC
ATATTTCTCCTTAGAATGCAGTTAT[A/
G]TGTAATCACACAGTTGCACTTTGTGAGGTTCTAATATTACAACAAGAATGTTTTAAATCCCTCTCTCCTCTTT
TTCTTAATTATCAGTATCAAAACCTAC A/G 1,933 0.1 0.048
0.029 0.038 71.4% 196 26.3% 156 51.7% 58 48.7% 80
NA 0 56.1% 66 73.7% 38 81.5% 92
64.3% 42 NA 0 21.8% 78 30.8% 78 51.7% 58
48.7% 80
rs7817788 APPLERA_RESEQUENCING 8 79.1515 69739027
forward LGD
ATTCAAATAAATGAGAATAACATGGTTTACATTGGAGTGTGCACAAAAAAAGACACAACCGCTCTTCCTACTGAA
AGAACAATCTATACTAGGTCTGGAT[C/
T]CATTCATGGGACAAATGGTCATCAGGGATGATATTCATACATGCCATTATGCAAAGGGCTATCCCAACAATTA
AATATATAGTAGATTTCACTTGGAAAC C/T extended_map 0.1
0.107 0.452 0.081 15.2% 198 57.1% 154 91.4% 58
87.5% 80 NA 0 12.1% 66 17.5% 40 16.3% 92
14.3% 42 NA 0 55.3% 76 59.0% 78
91.4% 58 87.5% 80
rs6472514 AB_ASSAYS_ON_DEMAND 8 81.8051 71245447
forward LGD
TCCTTGGTTTATCCACGAAATTGAAGAGAGGCTTCCAACAGATATTCTAGGCAAAAATCAGAAAACTAATGGGGA

ATTTAAACTTTGCCATCGATAGGTG[A/
C]GACTAGTTGTTCTTAGGGACATTAGTTAAATTGTATCATTTTTTTCCTTCACTCTCAAAGTGGAGATGTGTAT
TCGTAATACCAAAATGATGCATTTAAA A/C extended_map 0.131
0.070 0.035 0.137 26.8% 198 78.3% 152 48.2% 56
35.1% 74 NA 0 19.7% 66 30.0% 40 30.4% 92
33.3% 42 NA 0 71.6% 74 84.6% 78
48.2% 56 35.1% 74
rs2451034 APPLERA_RESEQUENCING 8 86.1269 73529684
reverse MIT
TTCTATGGGATCATTCTGTTGTAACAACCAGAAGGTACAATATTAACGACTGAATACAACCAGAAGGTACAATAT
TAATGTCTACATACTTTTGGAGATA[C/
T]GTGTCTTTGCTTTAGGATATAGGAAAGGGGGAAAAGACAACACAGTGTACTACACAGAAGAGGTTGTGTATTC
AGTGATATATACCTATAGGCTGGCAAC C/T extended_map 0.126
0.007 0.252 0.036 82.4% 182 33.8% 154 24.1% 58
56.2% 80 NA 0 85.9% 64 82.1% 28 80.0% 90
77.5% 40 NA 0 35.5% 76 32.1% 78
24.1% 58 56.2% 80
rs1431651 TSCAF 8 86.1482 73536053 reverse LGD
AGAATACAAACTGCTTAATCTGTATAGATGGGATGCAGAGAGGAAAGGGAAAGAAAGGAAAATGGTAAACCACCA
ATACAGAAACAGTGTGACTGGCATG[T/
C]TAATTAGCCCACTGCAGATAAGAATGAGAGTACTGCGTAGTACACAGAGGTGCCTCAATGTAGAGGAGAGCAC
TGCACGGTACACAGAGGGGCCTCAATG T/C 912 0.182 0.050
0.472 0.142 93.9% 196 42.2% 154 17.2% 58 85.0% 80
NA 0 95.5% 66 97.5% 40 91.1% 90
97.6% 42 NA 0 38.5% 78 46.1% 76 17.2% 58
85.0% 80
rs1564531 AB_ASSAYS_ON_DEMAND 8 87.5062 74749936
forward LGD
GTCAGGAATAACAGATGCTGAGATAGCCCCTTCTTGTGGTTATTTCTTTCCTCTTCTTGCAGCTTCAAGAGTCAC
TCATTTAAGTCATTAGTTGATCTGT[C/
T]TGTATACTCCAGAAAGCATCCAGAAGTTCTTAGAGTATGCCCTTAATTGTACAACTTGAAGTTCAGGAACATC
GGACTCACGATAACTCTAAGCAAGTGC C/T extended_map 0.122
0.006 0.249 0.050 69.4% 196 19.5% 154 12.1% 58
2.5% 80 NA 0 68.2% 66 72.5% 40 68.9% 90
73.8% 42 NA 0 19.7% 76 19.2% 78
12.1% 58 2.5% 80
CV492586 AB_ASSAYS_ON_DEMAND 8 87.6198 74854687
forward LGD
CCCAGCCTGGGCGACAGAGCGAGACTTCATCTCAAAAAACAAACAACAACAACAAAAACAAAAACAATAAACCAG
ACTTGTGTTTTAGAATGATTGTTCT[A/
G]GTGGATGAACAGATTTGATCAGGTAAAGTCAGCAAAGAAAAATCAGGAAAGTAAGCTATTGCCAAGGAGTGAG
AAAGTGAGGATGGACTAGGACATGTAT A/G 1,252 0.145 0.020
0.352 0.019 65.2% 198 11.7% 154 1.8% 56 2.5% 80
NA 0 63.6% 66 70.0% 40 64.1% 92
66.7% 42 NA 0 11.8% 76 11.5% 78 1.8% 56
2.5% 80

CV25472976 APPLERA_RESEQUENCING 8 88.2703 75974782
forward LGD
TGTGGGAACATGGACCTGCAAGCTTGCTTCCATCAATTGGACAGAATTTGGGAGCACACTGGGGAAGGTATCTTA
AAGCACAACTTTTTCTTTATGAAAA[A/
C]ATAAGTGTTTAAAATGAAGTCCTTATTAATTCATCAGTACAATTTTTCAAAGACTTGGTGCCTGAAAGAAAAG
TAATCACGAAACAAGTAACAAAAAATA A/C extended_map 0.195
0.044 0.497 0.005 84.5% 194 24.0% 146 5.4% 56
31.2% 80 NA 0 90.6% 64 95.0% 40 75.6% 90
90.5% 42 NA 0 22.2% 72 25.7% 74
5.4% 56 31.2% 80
CV11849977 AB_ASSAYS_ON_DEMAND 8 89.2105 77703907
forward LGD
GCAAGTTTGTATTTGGCGGGAAGAACAAAGAAAGGTGCCCTGCAACCCTACCCTGAACAGCCTGAGCAATCTGGA
AGGGCTTTGTGGTATAGATAGAAAT[C/
G]GAGACACCTTAAAAATAATCAGAAAGTCTCTATTTCCAGAGTTTCCCATTCCTTATATCACCATCTAAAACCA
CTTTTTTTCAGAATGTGTATATTTTGG C/G 373 0.212 0.001
0.343 0.049 81.3% 198 17.3% 156 13.8% 58 41.0% 78
NA 0 78.8% 66 82.5% 40 82.6% 92
71.4% 42 NA 0 14.1% 78 20.5% 78 13.8% 58
41.0% 78
rs406079 TSCAF 8 90.8208 81447385 forward MIT
TGAAAACATCTTTTTTTTCTTAACCTGAAATAGGCTTAAATTCTCACATTGTCAGATGAGTCTTAACACTTTAGT
ATTTGCTAAATTTAGCATATTAAAA[A/
T]TTTTTAAAAGGAGTATAAGGGCCCTAAATTGGAAAAAAAAACTCTACTACGATCATAACTGTGGGATTTCATT
TCCAGTTCATTCTGTCAGAATCAATCT A/T extended_map 0.277 NA
NA NA 95.3% 106 29.1% 110 NA 0 NA
0 95.3% 106 NA 0 NA 0 NA 0
NA 0 29.1% 110 NA 0 NA 0 NA
0 NA 0
rs440837 AB_ASSAYS_ON_DEMAND 8 90.9532 81511936
forward MIT
ACTCAATTTTTTGACAAAGAGAAAGAAATAGTGCATGCTATTTCTGCACTGAGCCCTGTAAAGTGTGCTTTTGTG
ACAATTGGTACTGTAATAAATTCTA[A/
G]ACAGATAATTTATCTTCCACTATTTCAAGAAAGATTTCTGGACATTTCAAAGTGAACTAAGCCTTTGAGTTGA
AGATTAACTTGTTTAGAAGACTTTGTG A/G 566 0.211 0.081
0.079 0.006 85.2% 196 22.4% 156 55.2% 58 15.0% 80
NA 0 89.4% 66 84.2% 38 82.6% 92
90.5% 42 NA 0 21.8% 78 23.1% 78 55.2% 58
15.0% 80
rs7012200 AB_ASSAYS_ON_DEMAND 8 91.8336 81941194
reverse LGD
ACAAAGAGGAAAAATAAATATGAAAGTTTTTTTTGTATTTATGTAATTTAATGTTAAACAGTCCAGACTGAAGCT
GAGATCTGAGCTTTAAGTTCTATTA[C/
T]CCCAATTTAACAGAATGTTATGGAAAGGATTGATTAGAAAAAGAAGAGAAATGGGGAAAAGGAAGAGAGTAAC
TTATGGGAATATAGCAACAATTTACAG C/T 1,653 0.12 0.020
0.300 0.029 80.7% 192 32.7% 156 17.2% 58 52.6% 78

NA 0 83.3% 66 70.6% 34 82.6% 92
72.5% 40 NA 0 30.8% 78 34.6% 78 17.2% 58
52.6% 78
rs2290201 AB_ASSAYS_ON_DEMAND 8 92.8663 82444664
reverse MIT
TCAGAAAATATGTTTCTTAAATGGCTTAAATACTTCCTTTGACTAGAAATGACATAGTATGCCATAGAATTATCA
ACCAATTTAAAAGGAGAATGTTACG[C/
T]ATATAACATACCTCTTCTTTGATAGTAGAGGTTTTTAATTTTTTAGACGCTGTTAACTGTCAGCATGTCATTG
GATGAATGTCTCTCAGATAACTATGGA C/T extended_map 0.163
0.042 0.089 0.187 76.9% 130 19.7% 122 42.1% 38
70.4% 54 NA 0 77.5% 40 68.2% 22 79.4% 68
93.3% 30 NA 0 11.7% 60 27.4% 62
42.1% 38 70.4% 54
CV1941216 APPLERA_RESEQUENCING 8 92.88 82493349
forward LGD
TATATGAGAGATTATTGTCAACTCCAACATAGTTTTGCACAGAACTATATCCTGGTACTCAATCAATATTTATTT
TTTCCTATGTGAAAAATTAGGGAGT[C/
T]CAAGATTAATATTATTTTATACAGAGCAAGTTCTGTGCTATCAAAATGCCCATTTTTACTGGATATGATATGC
AAGTAAACATAGCTCACCCAGCTCCTT C/T 1,031 0.191 0.030
0.455 0.003 19.2% 198 80.1% 156 94.8% 58 75.0% 80
NA 0 18.2% 66 7.5% 40 25.0% 92
11.9% 42 NA 0 79.5% 78 80.8% 78 94.8% 58
75.0% 80
rs731956 TSCAF 8 93.8421 84914263 reverse MIT
GACAAAAAAGTCTTACTTCCCATTTAGGTTAGGTGTTATAAATTCTGATTGCCATGCCTTTCTTTAGGACACATT
TTAATGCTTCCATCCTTTCTTGTGG[C/
T]ATATCCAACTGCTTCTGACTACGGTTCCTTCTTTTCTTGCCTGCTAATGCAGATTCACAGTATCTGTCCTGCT
CTCCTTCCCTCAACAACTCACAGCTTT C/T 2,145 0.061 NA NA
NA 60.3% 136 91.7% 156 NA 0 NA 0
60.3% 136 NA 0 NA 0 NA 0 NA
0 91.7% 156 NA 0 NA 0 NA 0
NA 0
rs7011137 AB_ASSAYS_ON_DEMAND 8 94.2184 85834762
forward LGD
TGTTCTTTCCTTAAGCCTTTTTCCCTTATAAAATAATTACTGTAGTCAATAGTAGGCTATTTATTGTTGTTTTTA
ACATCCATACTTGGCAAAATGAAAA[C/
T]TTGTCATCTTATGTTAGTCCCCAGTTGTTTTCTTTGAAACTGTACTAAACTCTAAAAATCTAGAATGGGAACT
ACTACTATTGAAATTATCAGTGAGAAC C/T 1,197 0.158 0.112
0.022 0.119 16.3% 196 70.8% 154 31.0% 58 30.0% 80
NA 0 18.2% 66 10.5% 38 17.4% 92
14.3% 42 NA 0 67.9% 78 73.7% 76 31.0% 58
30.0% 80
CV11844050 AB_ASSAYS_ON_DEMAND 8 94.6958 87002840
forward LGD
CTAACCACAAGCACATGCAGGTCTCAGCTGTCTAGGTCTGTAGCCTTAAAGAAGAATGCCCAGTTTCAGTGAAGA
ATAATTCACTCTGTTTGCTTCCTTG[A/

C]TTTGTTTGTTTTGCAGGACTGGAAATTGGTTTCTGAATTATAAATTGAACTGTCTCTAACATTTCAACAAAGT
AGAGTTAAAAATTGGTATTTTCATTCC A/C 1,980 0.073 0.019
0.035 0.012 81.8% 198 45.5% 154 62.1% 58 58.8% 80
NA 0 90.9% 66 75.0% 40 78.3% 92
90.5% 42 NA 0 51.3% 76 39.7% 78 62.1% 58
58.8% 80
rs1033348 TSCAF 8 96.9497 91420752 forward MIT
CCTTGTGTTTCCATTAGATGAATCAGTAACACGCAGAGTTGCTGGTACATTCTGTAGTTCTTTGCACTGAAAATT
TTCACTACCCTTAAGATTTAAAATA[C/
G]ACCACTATCAGAAGGTTTTCACCTGGACATAGTAACTCCTAATAATTGCCCTGACAAATTTCAAAAGAAGATC
AATTCTCTAACATATAGGAGAGAAGAA C/G 1,694 0.108 0.001
0.137 0.037 84.6% 188 40.5% 148 43.1% 58 63.5% 74
NA 0 83.9% 62 81.6% 38 86.4% 88
82.5% 40 NA 0 41.9% 74 39.2% 74 43.1% 58
63.5% 74
rs1038545 AB_ASSAYS_ON_DEMAND 8 97.052 91888719
forward MIT
AGAATCAGTCATCTGCCACCTGAGAAGAGGCTTGAAAAAGTGCTCTACTCCCCTTCTTCACCTGCGCTTTTGTTT
TTTTCTACAGTCATCCCCTGAAAAC[C/
T]TGTGCTCTGCATTTACCACCATGCTGTGAATGTTTAATGAACAACTGTTTTCTGTGTTAGGCCACAGGCTAGC
CTTGAACTCTTGTGACTGCTGCCAGCA C/T 327 0.23 0.203
0.013 0.082 94.9% 198 36.5% 156 87.9% 58 70.5% 78
NA 0 93.9% 66 92.5% 40 96.7% 92
90.5% 42 NA 0 41.0% 78 32.1% 78 87.9% 58
70.5% 78
rs279969 TSCAF 8 98.3876 94018148 forward MIT
AGGTGCTGAAATTCCCACAGGGATCCCTGCCCAGTGAGGAAGGATGGGTCCAGGCCTGTCCTAAAGACTCAGTCT
GACCACGAGCTGCTATGGCCTCTGC[G/
T]CTGCGCTGTGAGGATTTCCTCCTGGGTCCAATCCACCCAGTCTCCCTGGCATTGGCAGGGCAAAAACAGCAGG
CTGGAGCTGCAGTGATGGTTGCCACCC G/T 1,592 0.141 0.004
0.202 0.000 53.8% 182 99.3% 150 98.2% 56 100.0% 80
NA 0 60.9% 64 57.1% 28 47.8% 90
34.2% 38 NA 0 100.0% 74 98.7% 76 98.2% 56
100.0% 80
CV25996769 APPLERA_RESEQUENCING 8 100.0763 95615109
forward LGD
TTTTTTGATCTTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTCACCTGATATTGACAAACTGGACGTTGCCACA
ATGACAGAGTGTATCCTTTAAATCA[C/
T]TACTCAAGAATCATTTGAAAAGATAGTTCCAGAAAAGGTAATTCAAGAAACTTTCAAACATTTTAAATTTTGT
CAGCATATGGATAAAATTGGCCTATCC C/T 985 0.169 0.019
0.381 0.000 78.8% 198 21.2% 156 8.6% 58 21.2% 80
NA 0 80.3% 66 85.0% 40 75.0% 92
69.0% 42 NA 0 19.2% 78 23.1% 78 8.6% 58
21.2% 80
rs2016529 AB_ASSAYS_ON_DEMAND 8 102.1561 97534696
reverse MIT

GTGTACAGGGCAGGAAAGAAGCAAGACTCAAGCCCAGGTCTTCTCGGTGGCATATTTTTCACTAACAATATGAAT
CTTNTGTGGGGTACCAAGGCAGCTA[C/
T]GTCAACTGGCTGCAGAACTCTGAATTCTACAACTTCCAGGTCTTTGATCACTCTACTGCCTATCCCTGAATCC
TTCACCTCCCATCCCCAGGAGGAACGC C/T 629 0.226 0.082
0.098 0.101 80.3% 198 14.1% 156 44.6% 56 48.7% 76
NA 0 80.3% 66 92.5% 40 75.0% 92
81.0% 42 NA 0 19.2% 78 9.0% 78 44.6% 56
48.7% 76
rs2853275 AB_ASSAYS_ON_DEMAND 8 102.7317 97965602
forward LGD
CCTGTTTTCAACCAGTTGCTTGTGCTTATATATGCAATTTGTCTATTTTTTTCATATCTGTTTTCAGCTTCTCCC
AAAGAATTATCATTAGGTCATAACA[C/
T]TGGGGGAGGTTTACTGAATGATCATTCTTTTCAAAGACTTTACCATTTCCCCCAGAGCCTTGGTTGGTTTATT
GACTAGAGCAAAGCAGTTAGTTTGCTA C/T 1,390 0.138 0.008
0.129 0.010 82.8% 192 31.8% 148 42.0% 50 43.4% 76
NA 0 83.9% 62 86.8% 38 80.4% 92
81.0% 42 NA 0 30.6% 72 32.9% 76 42.0% 50
43.4% 76
rs1693557 APPLERA_RESEQUENCING 8 106.2797 101678675
forward MIT
ATGGTAGAATGAGGAGCAAAAAAAGAGCGTTACAATTTAGACAATTATAAATCACTGAATCAAATAACTAAACCC
TGTTAATGCTTAATCATCTTGTATT[C/
T]ACCCATTGAGTTCACAATTTTTCCTTAATACCCAATTATTAAGGGCAAACTACACATATGCATTACCCTAGCC
AGGTCAGAGAACTGACAGAAGTGAAGG C/T 198 0.314 0.000
0.375 0.007 0.0% 186 59.7% 154 60.3% 58 50.0% 80
NA 0 0.0% 64 0.0% 32 0.0% 90
2.5% 40 NA 0 64.5% 76 55.1% 78 60.3% 58
50.0% 80
CV2177071 AB_ASSAYS_ON_DEMAND 8 108.638 102627099
forward LGD
CCCTCCTGGAGGCAGAGGTTTCTGCCAGTTGCTTCTTTGTACAGTTGCTTCTTTGTACTGGATGGGGTCTGTGAG
TCTTGCCCCCAAACCATCTCAACAT[A/
G]TGCCCATTTTCTCTAGCAGTTGAGAATCTAAAGCCATCTGCCAGGTTGTTCCCTTTCAAATTCTGTCTCTGCC
ACTTACTAGCTGAGGGATCCTGGGTGA A/G 689 0.295 0.090
0.116 0.008 2.6% 196 66.7% 156 31.0% 58 56.4% 78
NA 0 0.0% 66 0.0% 40 5.6% 90
5.0% 40 NA 0 71.8% 78 61.5% 78 31.0% 58
56.4% 78
rs473498 AB_ASSAYS_ON_DEMAND 8 109.0458 102834131
forward MIT
TTATTCTCAATCAATTTTATACCAAGGAACCAATCAAATAAAATGGTTTGAATTCCCTTTCCTGTTGTGTTTGTT
GGAGTTTGAGGCACAGAAGTCAAAT[A/
C]TTTTCCCTGAGTTTGTGTTTAGGAGGACTCCAGGAGGGCTATTGCTAGCCTCTCTCCTCCCTGCCTCACTGTC
CTAGGGGAGAAGGAGTGTTTTCTCTAA A/C 1,254 0.2 0.043
0.118 0.026 84.7% 176 23.3% 146 46.6% 58 41.0% 78
NA 0 93.5% 62 85.7% 28 77.9% 86

69.4%	36	NA	0	22.9%	70	23.7%	76	46.6%	58
	41.0%	78
rs2669425	AB_ASSAYS_ON_DEMAND	8	112.1615	105352166
	reverse MIT
ACCCATATCTATTGAGTGCTTGTTATGAAGAAAGAGAGCAGCACACCGGCCCTCTGTCTGCTGGGGGAGACTGAC
GAGTGAACAGATTATTCCAGAAACC[C/
T]GGGGTAAGCAAGATAGTGGATAGGGGACAGAGGGCCAAAGCTTCCTAGACTGATGATTAGCTGAGCTGAGTGA
TAAAAGAGAAGTCAGATAATTACACAA	C/T	122	0.323	0.109
0.134	0.253	92.3%	196	17.9%	156	55.4%	56	76.2%	80
	NA	0	97.0%	66	97.5%	40	86.7%	90
92.9%	42	NA	0	23.1%	78	12.8%	78	55.4%	56
	76.2%	80
rs2047198	TSCAF	8	114.0352	108919210	forward MIT

AAGCACTTATTTTAAATCAACCTAGAACCATGTCTACTTTTTCCCTTTGCCTGGTAGCAAACCTAAAGTCAAATT
TTTGGCTCAATTACTTCAACCAACA[C/
T]AGATCTAAATAGCTTATTTTTTCTTTTATTCGGGCCTGAGCTCTTATTCTAATTTAAATTATTCCTAGTTTTA
ATAGGTTACATTTTGGGGTGTTTTTTT	C/T	1,579	0.151	0.021
0.107	0.001	17.0%	306	70.1%	264	53.4%	58	67.5%	80
	13.6%	110	10.6%	66	10.5%	38	28.3%	92
10.0%	40	70.5%	112	67.1%	76	72.4%	76	53.4%	58
	67.5%	80
rs1031402	AB_ASSAYS_ON_DEMAND	8	114.1103	109046171
	forward MIT
ATCAAGCCAGAGGAGGGAAGGGAAGAAGTGAAGGAAAGCAGAAGAGATTGGAAAGCAGTGTGAAGAAGGAGGGAA
TCAGCAATTTTGGGATTAGAGGAAC[A/
G]GCAGCATGCTTGAAATAAGGGTGACTGATCCAGAAGGGTCCTAGAGGAGAGAAGAACAGGTGGAAGGTGGGCT
TTGGAAAGAGTAAAAACACTATCCCTA	A/G	extended_map	0.213
0.032	0.480	0.016	91.8%	196	32.7%	156	13.8%	58
47.5%	80	NA	0	97.0%	66	94.7%	38	87.0%	92
	92.5%	40	NA	0	33.3%	78	32.1%	78
13.8%	58	47.5%	80
rs2703384	AB_ASSAYS_ON_DEMAND	8	115.0028	110556642
	reverse MIT
AACTGATTAAGTTTGGGGAGCTTCTAGGAGCTCATTACATCATTAGACAAAGTCTCTGCAATCCAGAAGGAATAG
CTGGTCTCAGTTCTGATAAACTACC[A/
T]TGCTAATCTTCCCAGAATTCTACTGGGAGCCAGGAGTCACTGCTGTCATTTGGCTAATGGGTCATTCTTGGTC
TCTTTCCTAGAGACCTGGACTTGCTAG	A/T	1,740	0.114	0.083
0.015	0.004	21.1%	190	68.3%	142	33.9%	56	75.0%	76
	NA	0	16.1%	62	20.0%	40	25.0%	88
9.5%	42	NA	0	68.6%	70	68.1%	72	33.9%	56
	75.0%	76
rs1895013	AB_ASSAYS_ON_DEMAND	8	116.04	113192312
forward MIT
ACAAAGAGTTAACACTGGGTACATGATCGTATTCAATGAAGTAAAACAGCTATAAAAGGAAGACGATGACCTATT
AAATAAAAATGCTGGCATTACTGTA[A/

T]GATACAGTTTAAATGAGCCACCAATAACTTACAAATACATATCTTAATTTGACAATGAAAGAAACCTCTTGTA
TGTGAAACTTGGTGTTTAACAATAAAG A/T 894 0.219 0.002
0.391 0.079 30.2% 192 94.6% 130 98.1% 52 69.7% 76
NA 0 28.1% 64 34.2% 38 30.0% 90
16.7% 42 NA 0 93.3% 60 95.7% 70 98.1% 52
69.7% 76
rs719432 TSCAF 8 117.8235 117065353 forward MIT

ACCTATTATAAATTATTTTTAATGCATGTAATTATTCTATAACCTCTTACTCTTGAAATTACCTCCCTGTGTGCT
CCTAATCCCTTCCAGAGTGGATCTT[G/
T]TAGATGTTTTGTCAGTGTAGAAAGTGGGAAGATTTGCTCTCAGAATTCTACTGGCCTGAAACAATGCAGAGCT
TCAACAAAGTGATCTGTTCTATTGTTT G/T 631 0.266 0.004
0.399 0.000 2.2% 184 61.3% 150 69.0% 58 61.3% 80
NA 0 0.0% 64 0.0% 30 4.4% 90
2.6% 38 NA 0 64.9% 74 57.9% 76 69.0% 58
61.3% 80
rs7007554 APPLERA_RESEQUENCING 8 120.7829 120898541
forward LGD
ATAATAGCTAAAAATACTGAGGACTTACTCTGTACCAAGTACTATGTAACTATTTTACAAGTATTAGCTCATATG
GTACATATTTGCATGCATGAAGAAT[G/
T]TGATAGTGAAATAATTCTTAATTAGCATCATACTTCGCTTGAGTAATTAAATAAGAGCGATTTTTTTTCTCAT
TTGCTTCTCTGTGCATATTGTGTTTCA G/T 1,917 0.084 0.042
0.294 0.025 64.8% 196 23.1% 156 5.2% 58 8.7% 80
NA 0 78.8% 66 62.5% 40 55.6% 90
81.0% 42 NA 0 25.6% 78 20.5% 78 5.2% 58
8.7% 80
rs7005391 AB_ASSAYS_ON_DEMAND 8 121.3201 121377350
forward LGD
CCAAAAGAACAGTACAGCTTAGAATGCCTAATTTGAGCAAAACCCAGGACTGGAAAGACTGAAGTCTATCATTGA
AGTCAATGCTGAACTGGTTGAAATA[C/
G]GTAGGAAAGTTGGAAAGTAACCTTAGTCCACAAGTCCAGCTAGTAACTGCTGACTGTGAAGAGCAGCAAATTA
AGTTAAATTGTGTGGAGAAAATGCCAC C/G 1,145 0.176 0.007
0.176 0.004 86.5% 192 29.9% 154 39.3% 56 37.2% 78
NA 0 87.9% 66 100.0% 38 79.5% 88
88.1% 42 NA 0 25.6% 78 34.2% 76 39.3% 56
37.2% 78
rs7845391 AB_ASSAYS_ON_DEMAND 8 121.6456 121667530
forward LGD
TGGTACAGAGGAAGTAATAAAATGGTCAAGATGGTCCTTCTTGCTGGAAGAGACTCCAAGTCATTTTTACAAGGC
TTGGCTATCAATTGTAGACATAATT[C/
G]TACTGCCAAGCACTCCTGTCCCCAATCACCAGTTGAGGTCTGAGACTAAGCAGCCCCAGGCAGGGAGTGAAAG
CAGGGTAGCCATGCTTGGGTGTGGTAA C/G 77 0.36 0.130
0.129 0.262 3.1% 196 76.9% 156 34.5% 58 17.5% 80
NA 0 0.0% 66 0.0% 40 6.7% 90
0.0% 42 NA 0 80.8% 78 73.1% 78 34.5% 58
17.5% 80

rs1156713 AB_ASSAYS_ON_DEMAND 8 129.0751 125982905 forward MIT
TTGTAAATGGAATTTTCTTAAAGAGGCAGTGGCGTGATTAGACTTTTATTTCAGGAATATACTCTGACATTTTTG
TGGAGGATGGTTTGGAGGAAAGTCT[A/
G]GTAAAACATACACTAAGATTAATTATTCTGTCAATGATGATAAAAGGCCAGAACTAGGGTTGTAAAATGAAAG
GTAATGAATAAATTTGGGTAATATCTA A/G 1,682 0.082 0.106
0.001 0.016 68.1% 188 27.0% 152 65.5% 58 41.2% 80
NA 0 56.2% 64 58.8% 34 80.0% 90
67.5% 40 NA 0 26.3% 76 27.6% 76 65.5% 58
41.2% 80
CV11592438 AB_ASSAYS_ON_DEMAND 8 129.3158 126229235 forward LGD
CAGAATGGAATCAGGAGGGTAAAATTAAAGATGAAATCATCTGAATAGCAGTTCTCTACCAAGACAGCACTTTAG
CTAAAGGATGATTACAGTGTAGGGC[A/
G]GTTCATTTTGATTCACTGGGGCTATATCTCTATACTTTCGTGTGTGGTAGTTGCTTTCCCCACTAGATCTGGG
TTCTAGCCCTCCCTGCTGGCTCCCTCA A/G extended_map 0.206
0.010 0.406 0.025 21.1% 194 84.6% 156 93.1% 58
68.8% 80 NA 0 21.2% 66 22.2% 36 20.7% 92
38.1% 42 NA 0 88.5% 78 80.8% 78
93.1% 58 68.8% 80
rs2891678 AB_ASSAYS_ON_DEMAND 8 129.4426 126318214 forward MIT
GACCCCCAAATTTTCCAAGCACCAGCTCAGCCTTTCCAAATAAACTGTCTTTGGAATAATGCAAGTAAAATAATA
TGGGCAGCCTAATAAGCATTTCAAG[A/
C]AGGCAACAAATATTTGTATTTTCTTCATATGCTACTTTCATAGTTTCAAGAGAAAAGTGCTTTTAGGAAAATG
TTCAGGCTTAGGCCAGGCATGGTGACT A/C 648 0.22 0.021
0.441 0.000 94.4% 198 37.0% 154 20.7% 58 38.8% 80
NA 0 95.5% 66 100.0% 40 91.3% 92
97.6% 42 NA 0 46.2% 78 27.6% 76 20.7% 58
38.8% 80
rs2124036 TSCAF 8 129.8761 126604723 forward MIT

TTCTGCTTCATGGTTATATAGTGTTGGAGAAGTCGGTCAGCATTCTATCTTCACTCCTTCATCTGTAAAATGGGC
ATGAGGAGACAAACACCACTCACTT[C/
T]GCAGAGTTATCATGTGAACGTGCCCTAAGAAGAGCAAAGGATTCTGCAAAAGCATGGTATTAGTGAATTGGTG
TCATCATCAACTATTTCTTCCATGGCA C/T 221 0.275 0.125
0.086 0.052 11.1% 306 81.2% 266 40.7% 54 56.4% 78
11.8% 110 13.6% 66 10.5% 38 8.7% 92
4.8% 42 80.4% 112 76.3% 76 87.2% 78 40.7% 54
56.4% 78
rs4427136 AB_ASSAYS_ON_DEMAND 8 136.8444 128836428 forward LGD
CTTCTGGAGGATGCTCCGCTGGGGAGGGCTCTGCTGAACCAGCACTTACTCCCTGCTTTTCGATCCTCACTCTGC
CTTCCTGTCTGACAAAGGCCGGGCT[A/
G]TTGGGATGGTAATGCCCTCTGGGCTGGCCTTGATTGAAGGTAAAAAATGAACTTCGAGGATAGCCCCTGTGGC
TGTGCAGTCTCATTTTTTATGCAGATA A/G 841 0.152 0.011

0.137 0.006 19.4% 196 73.7% 152 62.1% 58 65.0% 80
NA 0 18.2% 66 20.0% 40 20.0% 90
11.9% 42 NA 0 71.1% 76 76.3% 76 62.1% 58
65.0% 80
rs2302793 AB_ASSAYS_ON_DEMAND 8 137.5128 129065286
forward MIT
AATGGTGAAGGAGAGCTTTCTGGAATGAGTGAACATGTGTCAAATGCTCTGACGTCCTCATTTGAAGGGGGCCCT
GTCCCCTGTACCAGCTGAGCAATGC[A/
G]AGTGGGCCACTGTCCTGCTACCATTTTATAGTCAGCGGATCTTTTTTTTTTTCTCTTTCTCTCCAGAAGGACA
GAATAACGGGCTCCCAGATTCACAAGC A/G 451 0.196 0.146
0.019 0.064 95.8% 192 44.4% 142 87.5% 56 74.3% 70
NA 0 95.2% 62 100.0% 38 94.6% 92
95.0% 40 NA 0 41.7% 72 47.1% 70 87.5% 56
74.3% 70
rs6470726 AB_ASSAYS_ON_DEMAND 8 139.0123 130339617
forward LGD
GGCTTGCCTAAGTTCTGTATATCTCACCTGGCTTGGGTTCCTCTACCATTGTAATTTCCGTTAATGATCAGAGGC
CCCCTTCAAATATACTCTGAGAATT[C/
T]ACATGAGGGAGGCCAACAAACCCATCAGGCTCAGCTCTTTAGTTTCAAGTGTTTTTTCCATTTCACACATGTT
TGAGACTTCACTGAATTTGCCATCAAA C/T extended_map 0.092
0.103 0.431 0.002 76.0% 196 33.1% 154 3.4% 58
37.5% 80 NA 0 75.8% 66 82.5% 40 73.3% 90
85.7% 42 NA 0 33.3% 78 32.9% 76
3.4% 58 37.5% 80
rs4527833 AB_ASSAYS_ON_DEMAND 8 139.5861 130718233
forward LGD
ACACTGCAGCCAAGGATTCCCCAGTGGCCACCCTGTGATCTGGACTCCCCTCCCAGCAAAAACCTGTATCATCTC
TCTTTCCTCAGAATCATTCTTCTTA[C/
T]CTCTGGTTCCCTCACCCTCTTCCCTGAACTTCTGGCCCCTGGGAAGTTCTCACCAGCTCCTGTTGCTGAAGCA
GGATCCTCTTCTCCATGGAACAGGCCA C/T extended_map 0.037
0.024 0.006 0.002 81.1% 196 55.9% 152 74.1% 58
51.2% 80 NA 0 80.3% 66 87.5% 40 78.9% 90
82.5% 40 NA 0 59.0% 78 52.7% 74
74.1% 58 51.2% 80
CV11592441 APPLERA_RESEQUENCING 8 140.8489 131878545
forward LGD
CTAGATCTAACCCTGAATTTCTGTACACAGGAAACCCACTGTCACAAAATAAGCCAATGACAACCGTTAAGCATG
AAAAGGGCTTTGCTTTATCTTACCC[A/
G]GGGATTCCTCCAGATTCGAGTTTGTTTGCAATATCCACATCCCAAGACCAGACATCAAACTGCCACTTCCTTA
GTCCCAAAACACCGCACAGCACCGAGC A/G 2,083 0.038 0.000
0.050 0.000 34.0% 188 62.3% 154 60.7% 56 65.0% 80
NA 0 35.9% 64 25.0% 40 36.9% 84
22.5% 40 NA 0 56.6% 76 67.9% 78 60.7% 56
65.0% 80
CV1668259 AB_ASSAYS_ON_DEMAND 8 143.0022 133311833
forward LGD

CCCCATCACCTACTGCACTATAAACACATTTTCTTACACATGTGGTTTTTGTTTTTACAGGCATGTCAAAGAAAG
CATAGGGCCACTTCTTCAGGGCTAA[C/
T]GTATTGGGCATTGTGAGCTTTCCTGCAAGCTGATGCCTCTGTCCAAGTACACTGAATCCACAGCACACAGCGC
TTCAATCCAACCCTGCTGTAACACCGA	C/T	extended_map	0.12
0.035	0.052	0.018	87.8%	196	42.9%	156	65.5%	58
58.8%	80	NA	0	93.9%	66	90.0%	40	82.2%	90
	92.9%	42	NA	0	39.7%	78	46.2%	78
65.5%	58	58.8%	80
rs1533402	AB_ASSAYS_ON_DEMAND	8	143.0179	133327460
	forward MIT
ATAATCATCATCAAACTCTGATGAAGCTGAACATTACAAATATATGCGTTTGATTCAGAAAAAAAATAATATCCC
AGAGCTCTCCAAAGGTGAGGAGGCA[C/
G]GAAGCTTGCCACCATGACTGGGGCTGTTCAAAAAGAATGGATGGTCCCCAGCACTTCACGTGGAATTCAAATA
TGGGCAATATCAGGGGGTCTTCATTTG	C/G	973	0.165	0.029
0.103	0.023	87.4%	198	33.3%	150	53.4%	58	51.3%	78
	NA	0	86.4%	66	90.0%	40	87.0%	92
66.7%	42	NA	0	31.1%	74	35.5%	76	53.4%	58
	51.3%	78
rs4736600	AB_ASSAYS_ON_DEMAND	8	143.3715	133672609
	forward LGD
GCCTTAGAGACCTGCAGTGTATGACTCAGGGTGAGCAATACATCCTCCTTGAAGTTTGCCTTCCTCACTTTTAAA
TGAGAGTGGGTGGCAGAGCTGCTAA[A/
G]GCTCGTCAAAGTACACGGATCGTGTACTTCCCTGCTTTCTCCACCACCTTGCATAAGTGGGTCATATGACCAA
TCCTATAAACGAAGGGACACTTCCCAG	A/G	665	0.201	0.123
0.652	0.009	95.8%	192	43.6%	156	7.1%	56	55.0%	80
	NA	0	96.9%	64	97.4%	38	94.4%	90
97.6%	42	NA	0	44.9%	78	42.3%	78	7.1%	56
	55.0%	80
rs712055	AB_ASSAYS_ON_DEMAND	8	143.5804	133874755
	reverse MIT
GCTCTCAACTCCCTCCTGTGCAGGCTGAGCCTGCCTTCCTCTTCACTCTCATCTCCTCCAGCTCCCCAATGCCTC
CAGGAATATCTGTTACTCCCTGAAC[A/
G]CACCTCCAAGCCTTCCTTCTGCCTGCTCCTGTCTGGAAGATTCCTTTTTGACCCTCAAATATCAACTCAACAC
GTTCTGTTTTCTACCACTGTCATGGTT	A/G	extended_map	0.185
0.035	0.445	0.038	9.1%	198	64.3%	154	84.5%	58
41.2%	80	NA	0	9.1%	66	10.0%	40	8.7%	92
	0.0%	40	NA	0	65.8%	76	62.8%	78
84.5%	58	41.2%	80
rs853319	AB_ASSAYS_ON_DEMAND	8	143.5815	133875875
	reverse MIT
AAGGAGCAGATGGTTCCAGAGAAGGGACAAAGAAAGCCTAACTCCAGGAGTCTGTGAAGGACATCTGCTCCTTCT
AGAAAATGCTCCATGGGACTCTCTC[C/
T]CATCTCTTGGTGCCATCTGGCATACCACCAGCGTGCTACATTTGGGTGGGGAAATGGAGCAGCCACGCCTCCA
TATCTCGGTCCCAGCCCTAGCCCTGAG	C/T	347	0.222	0.007
0.378	0.040	6.1%	196	64.7%	150	74.1%	58	40.8%	76
	NA	0	4.5%	66	5.3%	38	7.6%	92

4.8%	42	NA	0	67.6%	74	61.8%	76	74.1%	58
	40.8%	76
CV365088	AB_ASSAYS_ON_DEMAND	8	148.5984	136569857
	forward LGD
AAATAACCTCTGTGTTCCTTGCAATTCACTAATTCCCTGGTTTTAAGCTACCCGAAGTAGGTAAATGGAAATGAA
CTGTTAGGAAGAAAGGGATGATGTT[C/
T]GGATTAAAAAAATGAACAAAGCGCTACTAATACATTTATTGGCAAAAATAAGAATAACACTTTCATTTAAGAA
TTTCTCAACATCTGTACCTCTGAAAAG	C/T	1,548	0.095	0.008
0.200	0.013	12.1%	198	51.3%	150	62.1%	58	37.5%	80
	NA	0	16.7%	66	10.0%	40	9.8%	92
9.5%	42	NA	0	46.1%	76	56.8%	74	62.1%	58
	37.5%	80
rs869061	TSCAF	8	148.9548	137286850	reverse MIT

ATTCTCAAAATGTCCAAAAGAATTTCCTATATTCTCTCCAGCCTACCTTTTCCAAATTCAATCATGTGTCAACTG
AAATCTACTTTCTGACTTGCTGTTT[A/
G]TGATTGATTTCATTCAAACTATTTGTGGTTTCTGCAGGAAGGCTGTATCCATCCCAAATCATGGTTCTTTAAA
TCTCTGCCTAAAAGTGGCACATGTCAC	A/G	1,002	0.118	0.078
0.017	0.009	88.7%	186	44.9%	156	77.6%	58	56.2%	80
	NA	0	96.9%	64	93.8%	32	81.1%	90
97.5%	40	NA	0	39.7%	78	50.0%	78	77.6%	58
	56.2%	80
rs1979813	AB_ASSAYS_ON_DEMAND	8	150.1979	137801006
	forward LGD
TTTTCTCAATAAACCTTATACTTAAGAAGCTTCTTGCAAATAATCTGTAGACATGATATGGTGAACTGACTGTAG
GTAACACTTTCTTGTGCTCAGAATC[G/
T]TGGCATGACCTTATCAAGCTGAAATACATGGGTCCAGTGCTTTTCATTCTTTGATCCTCAGTTACTTCATTTA
TAAAAGCAAGGCTAATAATATTTATCT	G/T	697	0.147	0.064
0.057	0.011	35.2%	196	88.8%	152	63.8%	58	80.0%	80
	NA	0	28.8%	66	36.8%	38	39.1%	92
40.5%	42	NA	0	92.3%	78	85.1%	74	63.8%	58
	80.0%	80
rs885725	TSCAF	8	156.3064	140641909	reverse MIT

GAGTCTGCCAGTTTCACAGAGCTAGTCCCTGAGGACACATCTGGTTTGTGAGAATAGCATCCAGGACCCAGTTCT
TGTTTCTTGGTGGGTGTGGCTGAAT[C/
T]CCAGAAGGCAGGGGTTGTGCTCTCCCCTCCGTGGTATCTTTTGTACAGTGGAGGTAGTGAGGCTTGGATTGAG
GGGGAGCTGCGGAAAAGGAAAAGGGTA	C/T	105	0.343	0.006
0.351	0.266	2.1%	328	71.4%	304	63.0%	54	12.5%	80
	3.0%	134	0.0%	64	2.6%	38	2.2%	92
7.1%	42	71.1%	152	70.3%	74	73.1%	78	63.0%	54
	12.5%	80
CV1681296	AB_ASSAYS_ON_DEMAND	8	156.7746	140816217
	forward LGD
GATAGCGTCCTCCCCATGAGGGTGTGGGAACTTGGGAATGTTATGGCTTCCATGATTACGGCATTCTCTGCTAAA
AGGGAGATTCCTTGAGTGGGCCTAA[C/

T]CTAACAGGCTGAGCTCTTTAAAGGCAGAGAAATTTTTCCAGCTGATCTCAGAAGGGGAAGTCAGAGATGAGAA
GCATGAGAAGGGTTCAACACCCCACTG C/T 737 0.216 0.124
0.043 0.003 9.1% 198 69.5% 154 27.6% 58 63.7% 80
NA 0 4.5% 66 12.5% 40 10.9% 92
7.1% 42 NA 0 65.4% 78 73.7% 76 27.6% 58
63.7% 80
CV375620 APPLERA_RESEQUENCING 8 163.8069 144182611
forward LGD
CTTGCAAATAGTTTTCAAATTTCTACAGAAATCAGGTAGACAGAAATGTACTTCAGAGTTTACTCACAGGAGGGT
ACTTTACCCAGTTGTGAAAAGCTGT[A/
T]GAGTGCTGCTAATGCCCCAGTGAAGAAGCTGAGGTCAACATCAGATTTGAAATATTTAAAGTGGATACAAACT
TATTTCAGCAATGCAGACAATTAAGTG A/T 2,011 0.067 0.237
0.564 0.045 11.1% 198 42.3% 156 94.8% 58 67.5% 80
NA 0 15.2% 66 7.5% 40 9.8% 92
23.8% 42 NA 0 38.5% 78 46.2% 78 94.8% 58
67.5% 80
CV401132 AB_ASSAYS_ON_DEMAND 8 164.7249 144976682
forward LGD
AGGAGGGTGAGAGGCAGCGGCGGCCCCAGGGATTGTGTCCTGCAGGCAGAGATCTGTGGGAGACCACAGAGGAGG
GAGCTCCAGTGTGCACATCCTGCGG[A/
G]CCAGCCTCCTACTCAGGAAGCAGCAGTGGCACCCAAGGCCTCAGGCGTGTACTTGAGTCTGACAGAGGCGGGA
AGCCTGGGCCAGGTCCTGGGGGACTGA A/G 1,284 0.2 0.110
0.037 0.298 97.0% 198 46.8% 154 84.5% 58 100.0% 80
NA 0 100.0% 66 100.0% 40 93.5% 92
100.0% 42 NA 0 53.9% 76 39.7% 78 84.5% 58
100.0% 80
rs1871534 AB_ASSAYS_ON_DEMAND 8 165.4969 145644482
forward LGD
GGGCATGGCCTGGGAGTCCATGGTGGGGAACGGAGGGCCAGGGTCGCGGGTTTGTGGGGGCAGACCTTGGGCGTC
AGATGCAGGACAGCGTCCCCAGTGA[C/
G]TGCACCCACTGCCAGGCTCAGGAAGGTCTGCAGGATGTAGTGGGTGACCCCCCTGCAGCCAGTGCAGGTCAGC
AGCAGGAGGCCAAAGACCGCGCAGAGG C/G 5 0.55 0.001
0.807 0.002 4.0% 198 98.1% 156 100.0% 58 100.0% 80
NA 0 3.0% 66 0.0% 40 6.5% 92
21.4% 42 NA 0 97.4% 78 98.7% 78 100.0% 58
100.0% 80
rs913700 AB_ASSAYS_ON_DEMAND 9 0 460086 forward LGD

GTTTCTAAAGAGGATCGCGTGGAACCCAGCAATTGATTAAGAATCTCAACGGCCCTAATCCCCTGAGAATTGAAC
TAAGGGCTCCCCAGCAAACACAGCG[A/
C]TTTACATGGGGCCTAGAGAGAGCGAGCACTGCCGGGGGCGGCGGCGAAGGGCAGCGGTGGTGGGACGGGCGGG
GTAGGGGGAGTTACTGAGCATGCGCCC A/C 469 0.186 0.191
0.010 0.112 76.0% 196 15.4% 156 65.5% 58 52.5% 80
NA 0 77.3% 66 65.0% 40 80.0% 90
90.5% 42 NA 0 14.1% 78 16.7% 78 65.5% 58
52.5% 80

rs2296055 AB_ASSAYS_ON_DEMAND 9 0.2311 666954 reverse MIT

GAAAAGACATACATTTAACACACAAACTCCAGAGCACAGGGTTACCTGAGGCACTGCCGTTAACCTTTGTGGTGT
GAGCCATGCTGGCTTGAGTCCAATG[A/
G]GAGATCCAGAAAGGAGTGAGGAGTCATGCAAATTTTATGCATCAAGTTCTCAAAGGCATTCAACCTGAAACAA
TAAAGAGAGCCCCATCAAAATGGATCA A/G 1,128 0.14 0.040
0.073 0.144 73.0% 196 19.7% 152 41.4% 58 63.7% 80
NA 0 78.8% 66 71.1% 38 69.6% 92
59.5% 42 NA 0 21.6% 74 17.9% 78 41.4% 58
63.7% 80
rs7030652 AB_ASSAYS_ON_DEMAND 9 4.372 2118808 forward LGD

AGGAGCTTGTGAGTGAGAGGCCTAAAGCCTAAGCTTCATTAGCTTTCCAATAAATCCACCTTTAGCAGTTTTAGT
GCCTCATTATCTTCCTTTCCACTCA[A/
G]TCTCTGCCTCCAAACACCCCAGGCTTGGATTCTGAAGGGGGAGTATTGCATTTCAACCCAGCTGCAATTCAGT
GCTGGCACAAACTAGCCAGACTTAGCA A/G 750 0.246 0.001
0.327 0.091 18.4% 196 87.0% 154 84.5% 58 55.0% 80
NA 0 21.9% 64 15.0% 40 17.4% 92
16.7% 42 NA 0 83.3% 78 90.8% 76 84.5% 58
55.0% 80
rs7865808 AB_ASSAYS_ON_DEMAND 9 6.623 2903620 forward LGD

TGCTCCTGGAACTGGAGCATGGTGGAACTACCTCAACAATACAAGAGGGGCCATTCTTGCAGGAAGCAGTGTGAT
TCTGTGGCAACCTAGAAGGAGAAAA[A/
G]GTTTGAGTTGAGAAAAACCGAGAGCATGAAAACTGTCACATCTTCTTCTGCCACAGAAACTTCCTCCTGTAAA
CAGCTGCCCAGGAAAGTCCTATAATTT A/G 74 0.366 0.001
0.591 0.001 16.8% 196 98.1% 154 100.0% 58 97.5% 80
NA 0 6.1% 66 20.0% 40 23.3% 90
9.5% 42 NA 0 96.1% 76 100.0% 78 100.0% 58
97.5% 80
rs2986676 AB_ASSAYS_ON_DEMAND 9 7.2115 3317260 forward MIT

AAACTCAATTAAATCCCATTTAATGGCATGGCATCTCCTAAAAAAAAAAATCTTGATTTTTAGGAGTGAAAACAA
TCAAAAATCTATGGTTAGCATTTCT[A/
C]ACATTTGGCAAGAGGCACATGATATGAAATCTTAAATAGGTTTCACGGCACTTCAACTTTGTTAATTTTACTA
CAGTAACAGATGTGAAACTGTAAACTG A/C 1,024 0.254 0.002
0.395 0.025 9.7% 196 76.3% 152 81.0% 58 58.8% 80
NA 0 7.8% 64 15.0% 40 8.7% 92
4.8% 42 NA 0 75.7% 74 76.9% 78 81.0% 58
58.8% 80
rs3758244 AB_ASSAYS_ON_DEMAND 9 11.4242 4669304 forward LGD

TCAAAATTCTCCTCCCTCCGCCCCAACTCTGCCTTAGAATCACTGGTTTAAATGTCAATGTAAAGGAATGAGTTG
CAATTTTTAAGCAACATGTAAAGTG[C/
G]ACACCTGGTCTGAGTACCTCCCGGCGGCCAGGACCCGCCGTTTTCGGTATAGGGAACACCAGATAACAATATA
TAACGCTACCTAACAAACGTTTCTCCA C/G 1,504 0.172 0.018

0.370 0.122 88.4% 198 33.8% 154 19.0% 58 75.0% 80
NA 0 86.4% 66 92.5% 40 88.0% 92
77.5% 40 NA 0 23.7% 76 43.6% 78 19.0% 58
75.0% 80
rs378117 AB_ASSAYS_ON_DEMAND 9 11.7029 4732323 forward LGD

CAAAAACGTTCGAGTGAGTATCATTTTGCCTGTAAAATGGGCATAGAGGAGTAGAATGGAGGAGTTAAAATAATG
TAGTACTTAGTGCAATGCCAGCTAC[A/
G]GGGTCAATGTTCAATAATGGTTGTCCATTTATCATCATTGCTTTGTCCCGGACACTATGCTAAGGCAGAAAGA
AGGCTCTCTGAAAATAAAACACAGTTA A/G extended_map 0.095
0.006 0.100 0.049 55.6% 196 12.8% 156 19.0% 58
35.0% 80 NA 0 56.1% 66 50.0% 40 57.8% 90
73.8% 42 NA 0 11.5% 78 14.1% 78
19.0% 58 35.0% 80
rs913258 TSCAF 9 12.1428 4867246 reverse MIT
AAAGCATATCAGAATTGAGGAGGGGGCAGGATGGAGTTTATAGGTGCTGGGATCAGAGGGAGAGAATAAATGACC
CTGATACTCTTACTTAGGAAGGCAT[C/
G]CTCCCCCCTCCCTCCCCTCCCTCGAGAATCATGGCTTTAAAGACACAGAGATGAGAAAGAGTGGATAGCCAAC
CTGCCCACTGCTTAGTAGGCAATGAAT C/G 228 0.274 0.001
0.373 0.242 86.2% 188 14.8% 142 16.1% 56 71.3% 80
NA 0 90.6% 64 83.3% 36 84.1% 88
85.0% 40 NA 0 11.4% 70 18.1% 72 16.1% 56
71.3% 80
CV33383 AB_ASSAYS_ON_DEMAND 9 13.2365 5834824 forward LGD
CCCCTTTTTGTTTATATATGGGTGGATTTTTCAACTTTATCAGCCTTGCAGGAAACCATAAATATATTTCCAGTT
GACAGTCAAGTTTTCTGGTTGTGAA[A/
C]CTCAGGTCTTCTAAAGTCACCATCTGCTACAGAAACAAAAGTCAACAAATACCACATTCTTCCCAACTGGTCT
ACCAAAAATTATGGCTGCTTTGAGCAT A/C 1,193 0.114 0.009
0.097 0.070 84.3% 198 38.9% 144 50.0% 52 70.3% 74
NA 0 83.3% 66 82.5% 40 85.9% 92
88.1% 42 NA 0 44.4% 72 33.3% 72 50.0% 52
70.3% 74
CV616040 AB_ASSAYS_ON_DEMAND 9 13.74 6322901 forward LGD

GCTTGTGTGGACTAAAGAGAGGTGATTAGCAACCACTGACCCAGAACTGTGCAGGTTTCCTGATAGTGCCAGGCA
ATGTGCTTGATGGCTCCACCTATCA[A/
C]GGGGACAATGATGGCACAGGTTGATTCCGCTAAGGATTTGCATCTGGGCACAGAATTTCACTTTCTTGCCTGC
GGACTGTAATGTAAGGAAAAAGGATGA A/C 2,026 0.046 0.173
0.417 0.182 32.0% 194 63.0% 154 100.0% 58 100.0% 80
NA 0 31.8% 66 15.8% 38 38.9% 90
21.4% 42 NA 0 65.4% 78 60.5% 76 100.0% 58
100.0% 80
rs1500318 AB_ASSAYS_ON_DEMAND 9 18.4324 8351445 forward MIT

TTAAAAGACTGCAAGCCAAATGTTGCTAAGGACAATTTGGGGTACAAGCTTTCCAAAGAGGGAGGTGGTTTTAAT
ACTCTGTAATCATTTTGAAACTTCA[C/

T]GCTATAAAAGACTTCAGATGTAGAAAAGCAGTCTAGGTATCAGATTATAACAGCATAGGACACCTAGTCTAGG
AGCACTCAACCTGGAGTCGAGAAAGCA C/T 279 0.247 0.055
0.606 0.020 84.3% 198 16.0% 156 0.0% 58 5.0% 80
NA 0 80.3% 66 92.5% 40 83.7% 92
90.5% 42 NA 0 20.5% 78 11.5% 78 0.0% 58
5.0% 80
CV1634612 AB_ASSAYS_ON_DEMAND 9 18.6236 8440381 forward LGD

CTAAGTATATATAAGTGGTGACTACAGAGAGTAGATGCCGTAGATTTTCCCATAAGGCAGGTAAACACAAGTGCA
TTTTTAAGATGCCAAGTTATCCTAA[G/
T]GCCTAGGATAATCGGGACCAGGTAAAACAGAACTCCCCTTTCTCTTTCAAATGTGAAGGGAAAAAAACAGTGT
TAGCTCTTAACAGTGTTAAGCTAACTG G/T extended_map 0.149
0.090 0.512 0.063 90.8% 196 42.2% 154 10.3% 58
15.0% 80 NA 0 90.9% 66 90.0% 40 91.1% 90
90.0% 40 NA 0 38.5% 78 46.1% 76
10.3% 58 15.0% 80
rs723145 AB_ASSAYS_ON_DEMAND 9 19.5205 8857519 forward LGD

ACTCATGCTTTTTACTTTTCCTCCCTCAGAGAGACCTCCTGCTAGGTGAGTCCCAGGCTCTAAGAAATATCCTAC
CTTAAATCAAGCGGAGGTAAGAAGG[A/
G]ACAGGACAACTGTTTTATTTTTTCCTTTTCCTTTTTAATCCTTGCACCCACCGTTCTCTTAAAAAACAGGTCG
TGTTCTAAGACGATGGATATCAAAACT A/G 1,398 0.108 0.002
0.203 0.001 34.3% 198 81.2% 154 86.2% 58 85.0% 80
NA 0 34.8% 66 37.5% 40 32.6% 92
31.0% 42 NA 0 84.6% 78 77.6% 76 86.2% 58
85.0% 80
rs324498 TSCAF 9 19.9334 9049545 forward MIT
ATATAGAAATCAAAAACAAAAAGAAGAAAAAACCAGAAAATAACCCAGGCATAAGGAACCATGAATGGACACAGT
TAGAAACAGAAGAAAATTGAAAAAT[A/
G]CCATGTATCAAAACTCATCCAGTGCTGCTGAAACCATTCCTGGAAGAAAATGTATGTCCTTAAGCACATTTGT
TAGTAAAAGTTAGAAATTAATGATGCC A/G 687 0.19 0.012
0.191 0.034 77.3% 176 15.9% 132 25.9% 54 34.7% 72
NA 0 74.1% 58 82.4% 34 77.4% 84
85.7% 42 NA 0 11.3% 62 20.0% 70 25.9% 54
34.7% 72
rs1331675 AB_ASSAYS_ON_DEMAND 9 26.9347 13167389
forward MIT
CATAAAGGATTCAAGATACAGACATATACTGTGTATGCATATAGAATACAATATGAAGAGTTTTCGCTATGGCTT
CTACTTCCATTCGCTTCCCCAGTAA[A/
G]AATGGCTAGCATCAGTTAGGTGTTTATCCATCAAATTTTTAATGCATTTGCATAATATATACATATAAGTACA
CATGCACACACTCACACATACAAGCAG A/G extended_map 0.262
0.001 0.372 0.004 4.4% 180 67.1% 152 70.7% 58
60.3% 78 NA 0 6.2% 64 3.3% 30 3.5% 86
0.0% 34 NA 0 71.1% 76 63.2% 76
70.7% 58 60.3% 78
rs725741 AB_ASSAYS_ON_DEMAND 9 27.0551 13346342

forward LGD
TTGTATGTAGATTAAGCACTATATGTTGAGAGACACACATTAACTTTGAATCTAAAAATTCTCCAAAAGTATTTT
AATTCACTTCAAAATCTAAAGTTTC[C/
T]GAAGTTCAAAATGTACAATTAAAAACTTAATTATAAGTTTATTTTATTGCTCTCTAATCATTTTTATCTGACT
CTAGTTCCTCTATCTCGACTGTAATGT C/T 458 0.289 0.033
0.583 0.041 4.1% 196 70.0% 150 88.5% 52 46.2% 78
NA 0 0.0% 64 7.5% 40 5.4% 92
7.1% 42 NA 0 72.2% 72 67.9% 78 88.5% 52
46.2% 78
rs1590404 APPLERA_RESEQUENCING 9 27.5607 13687152
forward MIT
ATCTTTAGGGTTTGATTGTGGAATAAGGTGGATTCAGCTGACTGGCTTCATTTCTGAAGGATTTTAAGGCGGGGG
GCAATGCCCAGCTCCCAATTCCTGA[A/
C]CTGTGTGCTCTAACTGCAGAGGACTTATACTGGGTCCTGACATTATTTCCTGGCTCCTCTAGGTTAGGAATTT
ACTGTGCTGATAGAGGCCGAGGTGTTT A/C 1,084 0.189 0.136
0.021 0.023 5.6% 180 57.9% 152 15.5% 58 39.7% 78
NA 0 4.7% 64 0.0% 28 8.0% 88
0.0% 40 NA 0 59.2% 76 56.6% 76 15.5% 58
39.7% 78
rs2382466 AB_ASSAYS_ON_DEMAND 9 29.1445 14292934
forward LGD
TTCTGTGCAGCCCTTTGGGTAGAACTGCTAATCCTTCTTATTAATTAACGAGATAACGGTGGTTAACTGAAAAGC
AATATTAACGCTAACTATCTAGGAA[A/
C]CTTTAACCAAAATTATTTTAGGCTTTTGGTTGATTTTCCCAGTGTACAAAATTGTGCACTGAGAATTTCGTAA
CAGTGTGGTGCAGAATCGAGAAATTCC A/C extended_map 0.256
0.001 0.436 0.054 30.1% 196 98.1% 156 100.0% 58
82.5% 80 NA 0 24.2% 66 17.5% 40 40.0% 90
27.5% 40 NA 0 97.4% 78 98.7% 78
100.0% 58 82.5% 80
CV1690816 AB_ASSAYS_ON_DEMAND 9 29.1879 14294973
forward LGD
TTGAAAAGGGGAAAACACAAAAGCATCCTGACGTGAGTTTTTCAAAGGAAGAACCAACAGATGTTAAGAGAAGAT
GATGCACTGGCAGGTAGCAGAGGAT[A/
T]CAAGTTATATACACAAGATAAAATAATGAAAAGTTCTTACAATAGAGATTGTTGAACCAACAACAAAATCAAT
GTTTTATCTAAAACCATGGTCTCTTAA A/T 132 0.318 0.035
0.659 0.006 12.1% 198 88.3% 154 100.0% 58 82.1% 78
NA 0 6.1% 66 5.0% 40 19.6% 92
14.3% 42 NA 0 84.6% 78 92.1% 76 100.0% 58
82.1% 78
rs1328296 TSCAF 9 33.499 16036292 forward MIT
GAGGAATATTTTCAGGAGGCTCCAACACATGGATGGATGCTGAAGAAACCAATCGAGAAGTAAAATGGGGTCCGG
AGTGTGGGAACTGAGGGTTTCAGAG[C/
G]AGCAGGGTGCATTAGAGTAGGCAGTGGCTGCCAGGCTTTTTGAGGCCCAAACCAGAGACTTGGGTCTGCAGAG
CTGTGGTTGTGTTCCACCCAGAGCACC C/G 1,138 0.187 0.110
0.577 0.046 98.7% 310 55.3% 262 17.2% 58 30.0% 80
100.0% 114 100.0% 66 100.0% 38 95.7% 92

97.6%	42	50.9%	110	64.5%	76	52.6%	76	17.2%	58
30.0%	80
rs1556045	AB_ASSAYS_ON_DEMAND	9	33.5133	16043710
forward LGD
CTGTCAACCTGCCTCCTGAGCACGGCCCCTCTCCATCAATGGTGGCAGCAGATGCTATTTGCCACGAAGGCTGAA
TCACCAAAGGCTGCAGTGTGGGGCC[A/
G]GAGAAAGCTCCTGATGTGAGTCTGGCACCTCAAGATGGTGTCTCCCTCACTGGGGCTGCACCACTTCATTTCA
CAGGCTTTGCAGAGTGATGGGTTTTAA	A/G	extended_map	0.117
0.018	0.291	0.027	74.2%	194	25.6%	156	12.1%	58
10.0%	80	NA	0	85.9%	64	82.5%	40	62.2%	90
76.2%	42	NA	0	24.4%	78	26.9%	78
12.1%	58	10.0%	80
rs7035049	AB_ASSAYS_ON_DEMAND	9	34.8171	16403779
forward LGD
CAGCTACAGGAAATATGCGACTCGTCTGGGACAGATCAAACATGACCTTAGTACTAACGCAAACAAGACTACCAC
GTGTGGTTTATCTCTGAGGGAAAAT[A/
G]TGAAGAGAAGTTACTTACATACCTCATAGAACAGTAAATGAGCTCCCATTTTGATCAAGGTCTTTAGCCTAGT
ATTAATTACAATCATGGCTTTGTTGTG	A/G	573	0.26	0.118
0.068	0.097	3.0%	198	63.0%	154	22.4%	58	26.3%	80
NA	0	1.5%	66	7.5%	40	2.2%	92
7.1%	42	NA	0	67.1%	76	59.0%	78	22.4%	58
26.3%	80
rs2754345	AB_ASSAYS_ON_DEMAND	9	36.1174	17496782
forward LGD
TTGTAGCCACAACAAGAGAAGCTTACTTAATGTTCTCAAATAACTGTAAAAACAACAAAATGTACCAGAAAACAT
TTGAGAGAGCCTTTTATTGGCCTAT[A/
G]TTCAGAAGAGTTCATGAGATACATGGGCAGAAGAGTTGCTATTTTTTTCCTCTTAAAAAATTTTTAATTGATA
CATAATTTTACATACGTATGGGGTAAA	A/G	1,442	0.143	0.000
0.173	0.000	99.5%	198	66.0%	156	65.5%	58	66.2%	80
NA	0	100.0%	66	100.0%	40	98.9%	92
97.6%	42	NA	0	73.1%	78	59.0%	78	65.5%	58
66.2%	80
CV3178532	AB_ASSAYS_ON_DEMAND	9	38.8791	18932755
forward LGD
CGAAAAAGTATAATGGTCTTCACTAAACAGGAAGCAGTCCCTCCCCAAAGCATCCCAGATAAAAAGGCCCAGATG
CTCACTGCAATGCCCACCAGGAACC[A/
G]CCCTAAGGAGCCAGGGCTTAGCTCGGACTTGTGTTGCCCTCCAGGGCACTCGCAACTTCCCACCTCTCAATGC
TAACATTTCCCTCTGAAGGGTGTCTGT	A/G	1,227	0.172	0.008
0.161	0.007	90.8%	196	37.8%	156	48.3%	58	47.5%	80
NA	0	92.4%	66	92.5%	40	88.9%	90
90.5%	42	NA	0	41.0%	78	34.6%	78	48.3%	58
47.5%	80
rs897705	TSCAF	9	41.2481	20241120	forward LGD
CGCTTCCTCCAGACAGAGGGGTCAGATTTAGTCTCTGCTGGACTCAGCCCATAGAGAAGAAGGCAGTGAAAAAGG
AAAAGCACATCTTCCTTTATATGAC[A/
G]AGGAAAGCCAGCAAAAGACACAACCAACCTTTGGGAAAATCTTGAAGCCTACATTTGTCTCTGAGAATTTTCT

CTCTACTTCTCTACTACTTTCTCCTCC A/G 1,665 0.126 0.016
0.291 0.001 18.4% 196 67.3% 156 81.0% 58 63.7% 80
NA 0 19.7% 66 15.8% 38 18.5% 92
23.8% 42 NA 0 64.1% 78 70.5% 78 81.0% 58
63.7% 80
rs2301550 AB_ASSAYS_ON_DEMAND 9 41.4347 20344796
forward LGD
CTTTGATGAAGAAAATGAAAGGAGAACCAGCAAGGATGATCAAGGGCAACACAAAGAAACGGAAGGCTTGTCAGT
GTTGGAGCCCTCCTAGTAACAGACT[A/
G]GAAACCTACCTTGTCACATTCACCATTCTTTATTTGCTTATCTGATTTGCTTTGCTTTATTGGACTTTTCACT
TCAAGAATCTAGGGATCAAAGAGAACG A/G 33 0.404 0.072
0.312 0.101 87.9% 198 3.2% 156 24.1% 58 30.0% 80
NA 0 87.9% 66 97.5% 40 83.7% 92
78.6% 42 NA 0 3.8% 78 2.6% 78 24.1% 58
30.0% 80
rs4478653 AB_ASSAYS_ON_DEMAND 9 42.8625 21843221
forward LGD
TCATAAGCATGGTACCTATCTCCCAAAGTGCCAGAGTGACAGTGAGGACTTGTCAAGAGCCATTCATCTCTAGAA
GCACTGTGAACTTTAGCCAAGCATA[C/
T]GGTTCAGTTATTCAGGATCTTTAAAGACATTATTGAACCAGCGGGAGTGGGCTTGTTATGTCTTAACTTTAGG
GGGGAAAAGGGGGTGGGGTAGAGATTT C/T 1,946 0.081 0.217
0.018 0.124 23.2% 194 63.0% 154 10.3% 58 21.8% 78
NA 0 25.8% 66 27.5% 40 19.3% 88
12.5% 40 NA 0 67.1% 76 59.0% 78 10.3% 58
21.8% 78
rs1333042 AB_ASSAYS_ON_DEMAND 9 43.4408 22093813
forward MIT
AATTTATTTGAGTAGACAGCCAACCCCCTGTATTGTACTCCTTTAAAAAATATTTTAGGCTTTTTAAATGCTGAG
GCAAGGGGACATACCAAACACTAAC[A/
G]GGCACATTGGGGTTTTCTGGCTATTGAAATAAAAATGTCCTTACATAACACTGATGTACTGGAATAGCACTGC
GTTCCAGTGACGGTTATTGCAACTCAG A/G 1,413 0.186 0.003
0.188 0.017 97.4% 196 50.6% 154 57.1% 56 66.2% 80
NA 0 97.0% 66 97.5% 40 97.8% 90
90.5% 42 NA 0 52.6% 76 48.7% 78 57.1% 56
66.2% 80
rs736723 TSCAF 9 43.5385 22205296 reverse MIT
TATTTTGAAGTCTCAAACGTCTGCCTCCTTCTGTCATCTGTTTGTAGACAGAGGCAGATATTGAGGTTTTGATAT
TTATTTATAATTTTGAAAATCATGG[G/
T]TTTCTCTAGTGTGCCGTTAGATTTCACCCATCTGGATTCAGATTCCACTAATTTTGGAAGTCCACATAATGCT
GACAGTATCATTAAAAAAAGTGATGTC G/T 1,538 0.17 0.067
0.090 0.003 43.7% 286 97.3% 258 78.8% 52 95.7% 70
53.4% 116 30.4% 56 50.0% 36 35.9% 78
36.1% 36 99.1% 112 93.2% 74 98.6% 72 78.8% 52
95.7% 70
rs637039 AB_ASSAYS_ON_DEMAND 9 48.1119 25931211
forward LGD

TTAAGACAGCCGATTTCAGCTTTCTTGACACAATTTAAATTTCATAAAAATGAAATGCTCTCTTCTGTTTGAATT
TTTATGTCCCCAAATCTAGTAGTGA[C/
T]TTCTTAGTAGCTTCTGTGATTTCAACTATGCTGTAGCCTGAGTCTCTAATCTCCAAGTGCAGCCCCACCTCAC
ACCTATACCCAACAGAGACAATATCAA C/T 223 0.275 0.041
0.204 0.134 14.1% 198 85.7% 154 65.5% 58 45.0% 80
NA 0 15.2% 66 17.5% 40 12.0% 92
9.5% 42 NA 0 87.2% 78 84.2% 76 65.5% 58
45.0% 80
rs439314 TSCAF 9 48.8134 26369840 reverse MIT
GGTTCCGCCTATGAGTTCTGCTAAAGATACCACACACTGTAATAGGAGAGGAAGCAGAAGCTGCTTTATTCTAAG
AAGTGGTTAGAAGTATTTGTGGTAA[C/
T]CAAGTTGTATTAGTGATCTGTTGTTGGGAAACTATCCCCAATCTAAGTAGTTTAAAAAATAATGAGTATTTAT
TATCTCTCACGGTTACTGTGGCTCAGG C/T 486 0.26 0.014
0.333 0.111 67.7% 220 0.5% 184 3.1% 32 23.5% 34
63.6% 110 78.6% 28 89.3% 28 59.3% 54
67.9% 28 0.0% 108 2.8% 36 0.0% 40 3.1% 32
23.5% 34
rs1033988 TSCAF 9 49.0005 26561951 reverse MIT
GTTCCCAAATATTGAAATCCCAAAGAGCAAAATCTCTAAAGTCTAAAATTCCTGGTGTCTAAAATCCCAATAATC
ACAGTCACAAGATGGTTGCATCATG[C/
T]TAGGCAGAGCTATTACCTTGTTATCGTCCTAACACAGAGGAAAATGGATTTCACTTGGATCCCCTAACCCTAA
TGACAGATTTGGAGCCAGGAATGACCA C/T 1,752 0.102 0.036
0.314 0.030 77.8% 198 32.9% 146 13.0% 54 15.0% 80
NA 0 74.2% 66 77.5% 40 80.4% 92
71.4% 42 NA 0 31.4% 70 34.2% 76 13.0% 54
15.0% 80
rs1414029 AB_ASSAYS_ON_DEMAND 9 53.4432 29806465
forward MIT
CCATTGCCAAGGAAAACACTTACAGTTCTTACAACAGGACAATCCTACATTCTGCACAAACCCTGAACCAAATAT
GAAGAGCTGGGGAAATTCACACAAC[A/
G]AGATTGTCCCAGAATAGGGGCATAAAGTGTATACTCCTGACCCCAACCTTCCCACTATGAGCCAAGCTGAAGT
AGCACAGCACCATCTTTATATCAAAGC A/G 1,468 0.134 0.012
0.304 0.001 62.8% 196 11.5% 156 3.4% 58 13.8% 80
NA 0 72.7% 66 60.5% 38 56.5% 92
75.0% 40 NA 0 11.5% 78 11.5% 78 3.4% 58
13.8% 80
rs1412627 AB_ASSAYS_ON_DEMAND 9 53.7896 30276994
forward LGD
GTTCATAGTATGTACATGATTCAGGGTCAGATAAATAATTTTTATTGCTTTTTTTCAATTCGAAAAGAATGTTTA
TCTAATTTCAGAATGAGAGATGTCA[C/
T]TGGCTAATTTATGTGCTAATATGACCACAAATCATGCTTTATTTGTAAAAGTTAATCTATTTTATGCTCTATC
CAAAATAAATCAATAATTATTTTGAAG C/T extended_map 0.073
0.009 0.175 0.006 69.9% 196 31.2% 154 20.7% 58
22.5% 80 NA 0 63.6% 66 70.0% 40 74.4% 90
73.8% 42 NA 0 30.8% 78 31.6% 76
20.7% 58 22.5% 80

CV1754253 AB_ASSAYS_ON_DEMAND 9 53.9306 30541206
forward LGD
TGTCTTTTACTTTCCCCACTCACTCCGAATACAAAATTAGTACCTAAGTGATATTAATACACCTAAACGTCTTTT
ACTCTCAACCTTTCTGTCTTATCTT[A/
G]GAAGAGCATTTGAGGAGACCTCACTCATTGCTGTAGGCAGTTTACTTTCTTACCTCCAGCTTCTCTTTTCTAT
CTAATTTTCCTGAACGTTCAGACTATT A/G 579 0.224 0.007
0.393 0.116 8.6% 198 69.9% 156 79.3% 58 29.5% 78
NA 0 4.5% 66 12.5% 40 9.8% 92
4.8% 42 NA 0 69.2% 78 70.5% 78 79.3% 58
29.5% 78
rs706118 AB_ASSAYS_ON_DEMAND 9 55.42 33246179
forward MIT
AACCCTTTCCCTGGGTCTGTATCCTGTATGGCCTTTCCATGGCTCTTGTCCCTATAAAAGCTCCCTGTGTTCTCA
ATGTCTGGGCCATAGGAACTGATCT[G/
T]TAACACAGACTTTGTTCTTTTATTGTTTCCTATGTATGGATACTCTGCCCTGGCCACACCATGGGCTCATTGT
GACAGGAAAAGTGCCTGCTGCTGCTTC G/T 272 0.251 0.002
0.312 0.000 13.6% 302 81.4% 264 77.6% 58 80.0% 80
10.0% 110 6.2% 64 23.7% 38 18.9% 90
10.0% 40 81.2% 112 76.9% 78 86.5% 74 77.6% 58
80.0% 80
rs4879682 AB_ASSAYS_ON_DEMAND 9 55.42 33280688
forward LGD
TGTCTCAGGTATTGTCCCGGCCCGAGCGGGACTGGGCCCCTTTCAGGGAGCGGAAATTGGGTCAGTGACGAAGTT
CTAGGGCCTCAGCCACTCATATCGC[C/
G]AGAGTAGCACATGCTAGGGCGTAGGATAGTGGCTCGGAAGGGCCAAGCCCCGCGCATCGTGCGTACGAAGATC
TGTGTCTTCTTGGACTAGATGGTGAAG C/G extended_map 0.365
0.002 0.441 0.002 94.4% 196 16.7% 156 20.7% 58
20.0% 80 NA 0 100.0% 66 97.5% 40 88.9% 90
100.0% 42 NA 0 21.8% 78 11.5% 78
20.7% 58 20.0% 80
rs4350056 AB_ASSAYS_ON_DEMAND 9 56.9283 34559699
forward LGD
CCCCGACACCCCTGTGGTGAGCCTTGCCACTGGGCCCTGAGAAGCTCAGAGCAGTCGAGTCAGGGCAGTGGGACA
TGACCCAGGTCAGATGTGGCTTTTC[C/
T]GTAATTGTACACCAATGATCAAGAGAAAATGAAGGATTTTAATATGTAAGTCCTTGTCAGGAACCCCGGCCCA
CCCTTGACCCCAGCCATGTGCCCCTAG C/T 1,924 0.081 0.083
0.008 0.006 35.4% 198 2.6% 156 25.0% 56 6.2% 80
NA 0 33.3% 66 40.0% 40 34.8% 92
42.9% 42 NA 0 2.6% 78 2.6% 78 25.0% 56
6.2% 80
rs6476611 AB_ASSAYS_ON_DEMAND 9 59.3195 37027959
forward LGD
GGCCGGAGCTGGACTCACAGGATTCGGGGTCCGTACAGCGCGCACGTGGTACCGCATCTTCGGCAGGCGGCGCCC
CTAATGCCCAGCCCCGCCCTGCTTC[C/
G]TTTGCCGGGCCTGAACGGTGTCAGCATTGAGGGTGGACGCCGAGTCGCGGCGAGTTGGTCCCTTGCGGTATAA
ACTTGGGGCTTCCCTAGGGGCGGTGCC C/G extended_map 0.19

0.014 0.196 0.219 68.9% 196 8.3% 156 17.2% 58
59.0% 78 NA 0 66.7% 66 77.5% 40 66.7% 90
70.0% 40 NA 0 3.8% 78 12.8% 78
17.2% 58 59.0% 78
rs4256662 AB_ASSAYS_ON_DEMAND 9 59.3198 37028258
forward LGD
GCCCGGGGCAAAAAGGAGCTGAGGATTGGTTTGGGTCAAAACACCCATTTCAGTTGGCAGTGGGGTCCTCTGCGC
CTACAGGGCTTCGAGCTCCGGGTGC[G/
T]GGCTCACTGGGGCACCATGTGCCAGCGACTCGCCACCCGGAAATACTTGGGTTGCGCTAGAATACGCGATGGG
TCTGTGTTCGGGTAACCTGGTGCTCAT G/T 608 0.212 0.001
0.343 0.049 81.3% 198 17.3% 156 13.8% 58 41.0% 78
NA 0 78.8% 66 82.5% 40 82.6% 92
71.4% 42 NA 0 14.1% 78 20.5% 78 13.8% 58
41.0% 78
rs1887455 AB_ASSAYS_ON_DEMAND 9 59.6888 37478725
forward MIT
CTCCCCGTTTACTTGATTTTGCCTCCATAAAACTGTTGTGCCATAAATTGTAGTGTAATTCTAGGTTCGTACACC
CCAAAAGAGTTTTCCATTACACTAC[A/
C]GCAGTGAGCCCAAATGTGATCAACTATCAGAATCACCTAGTAGCTTTTTTTTTTTTCCCAGAACCACCTCATA
TCCTCCCATCCCATCCTATCCTTTCCT A/C 1,305 0.123 0.028
0.068 0.011 18.0% 306 66.0% 262 46.4% 56 53.7% 80
14.0% 114 16.1% 62 15.0% 40 25.6% 90
11.9% 42 59.3% 108 65.8% 76 75.6% 78 46.4% 56
53.7% 80
CV240813 AB_ASSAYS_ON_DEMAND 9 65.1536 66625131
forward LGD
TGGGATTGTGGCATTAGACGGTTAGAAACCTTTGTTTAAGTGTTTTGGGATGACTAGTTCACTGCACTTGAACAA
GTGTTGGAAATCCAAATAAAAAGGC[A/
G]AAACATTATCCTCACATAGATTTATCATCAAGCTCACATTTTTTTTTAATTTTACAAATATAGTTGAGTGTCT
CAAAAACAGATGATTCCCATTTTCTAG A/G 1,989 0.036 0.000
0.066 0.005 58.2% 196 83.8% 154 86.2% 58 77.5% 80
NA 0 59.1% 66 47.5% 40 62.2% 90
42.9% 42 NA 0 84.6% 78 82.9% 76 86.2% 58
77.5% 80
rs756326 AB_ASSAYS_ON_DEMAND 9 65.5372 67019965
forward LGD
ATACTCATAGAAATGTCTTAGCTAATTCTAGACACATGGGATAGATCTTTAGTTTGAGAATTCCTCAAAGAGGCT
TGTAAGCTTGAGGAACCCAAGTGAG[A/
T]CTCCCTCTGATAAGGCAGGTGACACAGTTTGGGAGCAGATAGCCATCACCCATGCCCTTACAAAACACTTCTG
CTTTATTACCAATACATCATTTGTGAA A/T extended_map 0.146
0.019 0.346 0.040 22.4% 196 76.3% 156 89.7% 58
53.7% 80 NA 0 18.2% 66 15.0% 40 28.9% 90
26.2% 42 NA 0 74.4% 78 78.2% 78
89.7% 58 53.7% 80
CV3197897 AB_ASSAYS_ON_DEMAND 9 66.3878 67735822
forward LGD

TGCTGTATTTTTCATACAAATTGTATGCTAATTAATCCACATGGAACAGAAGAGGAGGCTGAAAAGGAAACTTAG
TGTGTAGGGATTGGTTTTGCCACCA[C/
T]ACCTTGACAACCTCCTGTGATCACTTTACATATACAAAAAGATGAGATTCTGTCCTCCAAAATGTGTATTTCA
GAAAAGAGAAAGTTGCCTTATGTATAA C/T 412 0.199 0.041
0.499 0.048 79.1% 196 16.7% 144 1.7% 58 1.3% 78
NA 0 82.8% 64 77.5% 40 77.2% 92
76.2% 42 NA 0 14.3% 70 18.9% 74 1.7% 58
1.3% 78
CV2871713 AB_ASSAYS_ON_DEMAND 9 66.7929 68170524
forward LGD
CCTTGATTCTAAGTTGCACCATAGATTTGCTAACATCCTTTTAGGGAGTGGGGAGGTGCACTATAGATCAATTGT
AAGACATGCCCTAATTTTAGAAATC[C/
T]TGACATGTTTAAAAGTCTTTTAGATTTGAGGCACTGCAGTAGAAAAATTAATCAGATTATTGTGTTATCAGTA
GAAATAATATTTGTGGAGAAGCCCAAA C/T 741 0.169 0.001
0.260 0.012 89.9% 198 36.8% 152 32.8% 58 50.0% 78
NA 0 89.4% 66 97.5% 40 87.0% 92
92.9% 42 NA 0 40.8% 76 32.9% 76 32.8% 58
50.0% 78
CV1410537 AB_ASSAYS_ON_DEMAND 9 66.852 68410603
forward LGD
AGTCCTAATAGCTGTGGCCTCACTTTTTATGAATTTTGCACTCGTTTAACTGCCAGAAAAAAAAAATTGTGCTGA
TTTTTATATTCTGCTGCAGAAATCT[A/
C]CAGCTTTATAATATTATACATCATCCAAAGCTTTACAGTAGTCTTCTAATGTCTACTTCCAACTTCTAGCCTT
TTTTACCTTGGTTGGCTATTCCAGTGT A/C extended_map 0.154
0.008 0.292 0.013 11.1% 198 62.2% 156 72.4% 58
48.7% 78 NA 0 10.6% 66 2.5% 40 15.2% 92
7.1% 42 NA 0 57.7% 78 66.7% 78
72.4% 58 48.7% 78
rs3780293 AB_ASSAYS_ON_DEMAND 9 74.5546 75533366
forward LGD
CACAGCACACCAGCATGGGAGCAAGAGAGTTTGCTAACAATGCAGAATCTCGGCTCCCACCCCAGATAATGACTC
TGAAGCTGCGCCTTAGCAAGATCCC[A/
G]GGTAGTTCATTTGCATTATTAACATTGAGAAGCTCTGGAATAAAACATGGGCTTGGGCCTCAACGGTGATTCT
TAAAACATCCCTCTAGAACAAAATTAT A/G extended_map 0.353
0.098 0.825 0.060 1.5% 198 71.4% 154 98.3% 58
93.8% 80 NA 0 0.0% 66 0.0% 40 3.3% 92
4.8% 42 NA 0 78.9% 76 64.1% 78
98.3% 58 93.8% 80
rs894823 TSCAF 9 74.5576 75535648 forward MIT
AAGAAAATGGACCTTTATCCTTAACCTTTAGTTTTTAACTTCAGCCAAACATTTCTGTCATTTAGAAAGTGTGAT
TAACTTTCAGATAAGTGTTTTTGTT[C/
T]CTTCAGCAAAGAACACATGTAGTTTCTCAACCAGTATCAGCAGCAATGAGAAATGCCTCAAAAATAATTATTT
GGCTTCCATTTCAGGAGTGGCTGGTGG C/T 138 0.322 0.001
0.535 0.003 21.0% 300 97.3% 296 100.0% 54 100.0% 76
19.0% 126 18.5% 54 23.7% 38 24.4% 82
26.3% 38 96.0% 150 100.0% 70 97.4% 76 100.0% 54

100.0% 76
rs2378029 AB_ASSAYS_ON_DEMAND 9 74.785 75707989
forward LGD
ACCTTTGCCACCCCATCCATAGGATCAAAGTTTGTACTTGTGTTTCTCAAACACTGTAGGAAGGAACCAATTTTT
AAAATTTTCCATCAGTTGTATTTCA[A/
T]AAATGTATCAGTCTTCAATAAAAATACTCTTTGATGCCACAGCAATGTTAAATTGCTATAAAGGTTTCTAAAC
ACAGGTGCATTTTGAGTGGTGTTGATG A/T 1,979 0.045 0.035
0.007 0.052 55.6% 196 84.4% 154 65.5% 58 60.5% 76
NA 0 51.5% 66 45.0% 40 63.3% 90
47.6% 42 NA 0 85.9% 78 82.9% 76 65.5% 58
60.5% 76
rs1410551 AB_ASSAYS_ON_DEMAND 9 75.0402 75901398
forward LGD
GATCTGAAAATAAAAACAAATTCCCACCAATGCTATCAATAATCTTTTTTATTGTTCTTCTTCACATCCTTATAA
TTCAACATTTTTTGAGGCAGCCAAG[C/
T]AATAATTCCTGGCTTCTCCATAGTAGTGTTAAGCTCATCTTGCAATGAGGAGCCCAAAACCATACTATGTTCC
CTGCTTTCTTCAATAAATAAAGTGGAA C/T 811 0.177 0.029
0.119 0.029 83.5% 194 25.7% 152 44.8% 58 45.0% 80
NA 0 85.9% 64 77.5% 40 84.4% 90
85.7% 42 NA 0 27.6% 76 23.7% 76 44.8% 58
45.0% 80
rs1831176 TSCAF 9 75.079 75930809 reverse MIT
TCAAGTGCTTTGAAGAGGGCCTGAGTTAGGGAAGGAAGAGACTTGGCTGTTAGTTGTGTACAGGTGATAGCTGCA
GCTCAGAGAATGGCCAAGATGGTCA[A/
G]TGGGCTAATATGGAGAAGTAGTGGGCTGGGCATGGAATTCTGGCAGATGATTGCACGTGGGATCAGTAAAAGG
AAAGAAAGAGCCAAGCAGAGAAAGGAA A/G extended_map 0.042
0.103 0.004 0.045 47.3% 184 18.9% 148 55.4% 56
41.9% 74 NA 0 53.1% 64 36.7% 30 46.7% 90
42.5% 40 NA 0 21.6% 74 16.2% 74
55.4% 56 41.9% 74
rs995173 AB_ASSAYS_ON_DEMAND 9 80.2556 80211078
forward LGD
ACCTGATGAACAACAACTGTAATGATGTTCTAGTTGCCTTTTAAATAATCTAACTTGTCATATGACAGTGATGTT
CTCAGGGCAGGGTCTGTGTTTAGTC[A/
G]TGTCTCTGGCCTCAGGAACTAGAAAATCATGCAGTTTTTATTAAATGTTCTGAGCAGAATGAGACTTTAAATT
AAAATCAGTTTCCATATTTTTTTCCTC A/G extended_map 0.199
0.002 0.314 0.107 8.2% 196 64.9% 154 70.7% 58
26.3% 80 NA 0 7.6% 66 5.0% 40 10.0% 90
11.9% 42 NA 0 62.8% 78 67.1% 76
70.7% 58 26.3% 80
rs951577 AB_ASSAYS_ON_DEMAND 9 80.4753 80497228
forward LGD
TGCATATATTTCCCTTAGAGAACTTATTGACAGGAGAAAACCCAGAGTCAAAGCAATATTCATATACTGCTAACC
TCTGGCCTAATGTCATATTAATACC[A/
G]TGCTAATAATACCTAATGCCACTCTAAGCCCAGTGATGAGAGGAGGGGTGCAGATACGAATTTGCGATCTTTC
AATAAGGTCTCCTTAGTGACAAAGCAA A/G 508 0.274 0.056

0.146 0.061 95.9% 194 32.1% 156 60.3% 58 61.3% 80
NA 0 95.5% 66 100.0% 38 94.4% 90
97.5% 40 NA 0 35.9% 78 28.2% 78 60.3% 58
61.3% 80
rs1347858 AB_ASSAYS_ON_DEMAND 9 82.9558 82630452
forward MIT
GGATATTCAGCCACATAAGACACCGAAAATAAGGAAGATTGAACTTGACATGTATCATCATCATGGTCAAGACCA
GGGAGATGCTATCTCAAGGTCTTTC[A/
C]AGCTCTTTAATCTATGCAAAAATGTGTATGATTTTTAGGGGAAGATGTTGGTCAAAGGATACAATATTTCAGT
TAGACAGGAGGGATAAATTCAAGAGAT A/C 893 0.218 0.033
0.150 0.023 87.1% 186 24.0% 150 44.4% 54 40.8% 76
NA 0 91.7% 60 88.9% 36 83.3% 90
80.0% 40 NA 0 25.7% 74 22.4% 76 44.4% 54
40.8% 76
rs913444 AB_ASSAYS_ON_DEMAND 9 83.9845 83318769
forward MIT
AGGGGCCTGGCTCCCGAGAGCCAGCAGATTCATCCGAAGGTCCTGACCTGTGTGAAGCTTTTCCTGGCCTGTAAA
CACGTCAGAATGATATTAGCCGTGT[G/
A]TTTACAAAGTATGCCCTGAGTGCGTCCATTATGTCTGGTCTAATGGAACTGCATTCCTCTAAGTGCTTTTTAA
GTTGTGTAGACAGCATAGCCAATATCC G/A 153 0.306 0.212
0.044 0.170 94.1% 320 23.9% 280 78.0% 50 72.2% 72
93.1% 130 100.0% 62 100.0% 40 88.6% 88
100.0% 40 20.0% 140 29.4% 68 26.4% 72 78.0% 50
72.2% 72
CV3162018 AB_ASSAYS_ON_DEMAND 9 84.06 83670615
forward LGD
GTCTTCTTGATATGTCAAATTCTGAAAGGAGTACTTTAAATTCTCATAAATGTTTTCTAATCAAGTTGTATTTCC
TGGAGATTTCTGCCCTGCTTATGTA[A/
G]GTGCCATGTGGCCAGGGTTGTTGTGCTGTGTAAAGGTTTACAGCATCTTCAAGGATTGCAACTTGTAAATACA
AAATATCTGTCTTTATGCAAGTCAGTG A/G 1,562 0.131 0.000
0.195 0.076 70.8% 154 18.8% 80 17.9% 28 50.0% 24
NA 0 67.2% 58 73.7% 38 72.4% 58
57.1% 42 NA 0 18.8% 48 18.8% 32 17.9% 28
50.0% 24
rs7865836 AB_ASSAYS_ON_DEMAND 9 84.9752 84136953
forward LGD
GGGGGATGCAGCAGATCGGCTCCTCCACGTCGGTTCCACACGCCTTTTGCTGTGCTTTCCTGAACCACAAAGGCT
CGGAAGCTAAAATGCACCTTCCAGA[A/
C]TCATTTCCAGTGGGATTCTGCCTCCAATCAGATGCACTTACTGGAGGCTAGAATGTGGAACAGAGTGAGGGTG
TGGGAGGTGCAGAACAGAGAAAGTGGG A/C 1,679 0.123 0.004
0.237 0.097 77.6% 196 28.2% 156 20.7% 58 65.0% 80
NA 0 83.3% 66 76.3% 38 73.9% 92
60.0% 40 NA 0 25.6% 78 30.8% 78 20.7% 58
65.0% 80
rs753790 TSCAF 9 94.6672 89140090 forward MIT
CAGAGCAGGGCTGCCTTCTGCCCTCCCCTCCTGGGGGCTGGGCGCGAGTTGTTAGAGCAATGCAGGAGGTGGGCA

GTTCAGGGCAGCTTTGGATGCCTCA[A/
G]GTCCCACAGGAGCAAATAAACCCTGGACTTCTTGATGCCGTCACAGCCTGGCAGCACCTGCTTGTCCAGCAGA
CCAGCCACCGCTCCCCGATTCACCATG A/G 1,798 0.122 0.002
0.190 0.044 60.3% 194 100.0% 152 100.0% 58 89.7% 78
NA 0 71.9% 64 50.0% 40 56.7% 90
47.6% 42 NA 0 100.0% 74 100.0% 78 100.0% 58
89.7% 78
rs774227 AB_ASSAYS_ON_DEMAND 9 95.0586 89535350
reverse MIT
GAACCATCCCAGACAGCCAGGAGCAGGAACAGAAGCAAAAGGAACTCTGGAGCAGCATAGCCCAAGTACAGACAC
TCCCTGAAGGCCAAAGTCACGTCGG[C/
T]TTCCACTGTGGTTAAACTGTTCAAGTCAAATTCCACTTGCTTCTAGTCTCCAGCTGGCTTTCTCTCGTGGGAT
GAATACACACCCTTTGTAATAGCACAG C/T 241 0.267 0.020
0.526 0.051 9.6% 198 78.0% 150 91.1% 56 52.6% 76
NA 0 10.6% 66 7.5% 40 9.8% 92
11.9% 42 NA 0 79.7% 74 76.3% 76 91.1% 56
52.6% 76
rs3780346 AB_ASSAYS_ON_DEMAND 9 95.7376 90315597
forward LGD
TACATAATAAGCCTAGGACATGTTGCTACGTGAGAAAGCAAGAATTTACCAAAGACAAAGGATCATGTTAAAGAA
TACAGGATCCAATATGGCCAATGAC[A/
G]AAAACTCTGAGCATCCAAAAATATAACCCAAATGCAATTGATTGAAATATACTGAATATACAACTCAAAAACA
AAAAAAAAGAAAATTTAAAGTTATCTG A/G 540 0.246 0.002
0.369 0.060 5.6% 196 67.3% 156 72.4% 58 91.2% 80
NA 0 3.0% 66 7.5% 40 6.7% 90
7.1% 42 NA 0 71.8% 78 62.8% 78 72.4% 58
91.2% 80
rs2031262 AB_ASSAYS_ON_DEMAND 9 95.8879 90511777
forward MIT
ATTTTGGAAACAAGAGCTTCCAGGGAAAAAGTATTTTTGGGGAGTGGCTTAATTCTGATAGAGACCATATGACCT
CCAAGTGGATTAGCTTTCAATGAAT[G/
T]CTACAAACCAGAAGAGTCTTTCCCCCATCTTCATCTTCATTCTCTAACTTTGTAGGAAATAGTTTGGTTTAGG
AGTCAAAACACCTGAGTTCTAGTTTTT G/T 856 0.231 0.043
0.501 0.104 1.5% 268 52.9% 170 77.3% 44 88.6% 44
0.0% 110 0.0% 52 5.9% 34 2.8% 72
5.6% 36 51.8% 110 64.3% 28 46.9% 32 77.3% 44
88.6% 44
rs968040 TSCAF 9 95.9718 90621394 forward MIT
TTTTAATCTAAAATTAGTAACAAAAACAAATGGAAGTTAAAGATTAATCACACACTGATATTTTGCTTAGCTAAA
TCTCTGTACCAGTAGCGGAGCAGAC[A/
C]GGGCAGCATTCCCCTTCAGGTATAACTGTTTGGGGGCACCTCTGGGGATGGCACATGGTTTCATCACAAAGAA
CTCTTCCATCTGAGCAGAGGCAGGTAG A/C 1,220 0.173 NA NA
NA 15.7% 108 73.2% 112 NA 0 NA 0
15.7% 108 NA 0 NA 0 NA 0 NA
0 73.2% 112 NA 0 NA 0 NA 0
NA 0

rs2026399 AB_ASSAYS_ON_DEMAND 9 97.896 93042140
forward LGD
TATATGTTATTTGGAGAGCTGAAATACTGGTCCCAAGATAGATAGGTAATCCTAGGCTACATCCTCAGAGTTCTA
AGAACTGAGAGTTTACTGTTGACAG[A/
G]TTTAGTTAGAAAGGGCTACAGGGGGATGTGAGGCTTGAGCTGGGATAGTAAGAAAGGATACCACTGAGATGGG
TGAAGAGGCAGAGGGAGAGGAATTCAA A/G 1,529 0.169 0.045
0.124 0.027 53.5% 198 1.3% 156 13.8% 58 10.0% 80
NA 0 56.1% 66 57.5% 40 50.0% 92
69.0% 42 NA 0 2.6% 78 0.0% 78 13.8% 58
10.0% 80
rs3780549 AB_ASSAYS_ON_DEMAND 9 99.4976 94919364
forward LGD
CACAGGAGGTGGCAGGGGCCTCAGTCTAACCCAGAGGCTCTGGAGACATCCCAGAAACCCCACAACAAATACACT
TGCCACATAGTAAGATTCTGTCCAC[A/
G]CTGACTTCACAATCATTGTCCTGGGGTTTTGGGGACAATCACTCAGTGCTGTGAAGGCTGCAATGCTGGGTTA
GGTAGGTAGGCCATTACAAACAGCCTG A/G extended_map 0.173
0.003 0.255 0.123 53.1% 196 0.7% 152 1.7% 58
27.5% 80 NA 0 53.0% 66 44.7% 38 56.5% 92
75.0% 40 NA 0 1.3% 76 0.0% 76
1.7% 58 27.5% 80
rs6477733 AB_ASSAYS_ON_DEMAND 9 99.5671 95004901
forward LGD
AATAGCCATTTTAGCAAAGGACATAACAGCAAATGAATTTGAAACAAATAGGTGTACTTTGAAAGTTGAAGAAGC
TAGTGTGCCTTTAATCACTACAGTT[G/
T]TCGTCACTGTATAAACTGGTTTCTTGAAGGAAGCAAAATTCATAATTATGAACACTTAGCTCTGCTATAATGG
CAGCTAAATTGTTCTCAAAACCTGCAA G/T 1,405 0.186 0.004
0.274 0.137 44.4% 196 99.4% 154 98.3% 58 70.5% 78
NA 0 42.4% 66 45.0% 40 45.6% 90
28.6% 42 NA 0 98.7% 78 100.0% 76 98.3% 58
70.5% 78
rs3747496 APPLERA_RESEQUENCING 9 99.943 95467183
reverse MIT
GCTGCTCCATCCTCTTCTCCAGCTCCAGCTCCTGCACCAACAGCTCGCTCTGGTGTGCCTCCCACAGTTGTACCA
CCTCCTGGAAATACTTGAAGAGGTG[C/
T]GAACTCTGCCACTCTGTCTGATCTGCCAGAGTCTCGAAGGATTTCTGCAGTGGCAGAGCCCAGAGAAGGGACT
TAAGGGCTGACAGTCCCAGGGCCAAGA C/T extended_map 0.074
0.176 0.011 0.001 18.0% 178 54.6% 152 8.6% 58
51.3% 78 NA 0 21.0% 62 10.7% 28 18.2% 88
15.0% 40 NA 0 57.9% 76 51.3% 76
8.6% 58 51.3% 78
rs2401635 AB_ASSAYS_ON_DEMAND 9 100.233 95823870
forward MIT
TGCAAACCCAAAACGTTCTGTACATTTGAACCAGCTGAACGTTCCCATCTAATATTAAGGCCTGTGCATCCTGAA
GTTTTGAAATCAAAACATTTCTATA[A/
T]TCTGTAACTGATTTCTGTAATGTGTAACAGTCCTCTCTTTCAGACTCCTTAAGATGCCTGTTCACTACTTTAT
CCTTCAAGGCTCTCCTTGCTACTGAAG A/T 1,783 0.131 0.129

0.019 0.088 58.1% 198 100.0% 156 74.1% 58 81.2% 80
NA 0 47.0% 66 50.0% 40 69.6% 92
45.0% 40 NA 0 100.0% 78 100.0% 78 74.1% 58
81.2% 80
rs337551 TSCAF 9 101.4303 96838839 reverse MIT

CTCTATCCCCTGGCACCTGGAGAACTTGTCGCTTGCAGAACTTGTCACCTTCGGTTGTGTTTACTCAGGATGGCA
GTGTTTATGTCTGAGTGTGTCTCCT[A/
G]ATAGACTCGGATCATCTCAAGGGTAATAGTGGTGCTTCCTTTATGAATTTAGGCTATACTTGCTAAGCACCTA
CTTGGTGCCAGGCTCTGGGTTTGTTAC A/G 1,711 0.072 0.002
0.084 0.009 56.5% 186 18.4% 152 22.4% 58 27.5% 80
NA 0 56.2% 64 59.4% 32 55.6% 90
57.5% 40 NA 0 22.4% 76 14.5% 76 22.4% 58
27.5% 80
rs1417999 AB_ASSAYS_ON_DEMAND 9 104.0897 99490515
forward MIT
TCTAATCTCCTTCGCTTTAGTTCCTTCTGTGTCTCCTCCTCTAAGTCAGTGGTCTCTGGACAGTTTCCTCTGGAA
CAGTGTCTAAGAGAGCAAGTCCCAA[A/
G]TATCAATTTTAAGAGCAATGTGAGCTGGTGGCATAAGACTCACCTGAGGAGCCTGTTAAGTAAAGATTCCTGG
GTCCTGCACCTGAAAGTTCTGACTTGA A/G 909 0.15 0.220
0.000 0.083 10.8% 194 60.9% 156 8.6% 58 26.9% 78
NA 0 4.5% 66 10.0% 40 15.9% 88
7.1% 42 NA 0 61.5% 78 60.3% 78 8.6% 58
26.9% 78
rs1449662 TSCAF 9 104.7864 100250928 reverse MIT

TATGGTGTATGATTGTTAGGACTTTCATTTTATAGATGAGAAAATTGGAAATAAGAAAAATTAATTTGCTCAAGT
ACCCTGATTATAATTCAGTTAGTAA[A/
T]TGAACGAGGATTTGAAATCTAGTCAGTATGGTTCATCCACTACCCTGTTTGCCTCAGCATAAAATGACCAATA
TCATTACACTGACTAAATACATTCCAA A/T 1,916 0.093 0.187
0.009 0.200 8.2% 318 43.5% 308 1.7% 58 1.3% 80
10.5% 124 7.8% 64 5.3% 38 6.5% 92
9.5% 42 48.1% 154 34.2% 76 43.6% 78 1.7% 58
1.3% 80
rs2230808 AB_ASSAYS_ON_DEMAND 9 106.8235 102942642
forward LGD
CCAACTTTACCATGAGTTGAAAGTACTCCAGGAAACATAAGGATTATTGTTCATCAAAAAGCTACTAGAACAAAG
ACAGCGGTTTACCTTGACATTATTT[C/
T]TGGTGTCCAGTCCTGTCATAAATCTTCCCAAGCTGTTGAGAAATCGATCTGCAGAACTGTCCTGTAAACAACA
GAAACCTGCCTCAGTTGTGACTGTTCA C/T 576 0.238 0.026
0.513 0.029 87.4% 198 21.4% 154 6.9% 58 40.0% 80
NA 0 84.8% 66 85.0% 40 90.2% 92
92.9% 42 NA 0 19.2% 78 23.7% 76 6.9% 58
40.0% 80
rs1472029 AB_ASSAYS_ON_DEMAND 9 109.062 104650570
forward LGD

TCAATGAATTATCCTATAAAACAAAAATGAAAACAAATACCCCTCAGAAAATTCCTGCCAAATTAGCTTCTGCCC
AAACGGACAGATTTTCATGCTATAC[A/
G]TTTGGGAAATTGCAAATATGAAATTCTCTCTTTTTAAGAAATAGTATGTGTTCAAAAAAAGTAATATAATTTT
TTAAAAATAAAAAATAAATAAGTTAGT A/G 1,800 0.098 0.059
0.021 0.002 28.3% 198 73.1% 156 44.8% 58 68.8% 80
NA 0 31.8% 66 30.0% 40 25.0% 92
25.0% 40 NA 0 79.5% 78 66.7% 78 44.8% 58
68.8% 80
rs1510283 AB_ASSAYS_ON_DEMAND 9 109.4044 105075788
forward LGD
GAAATATAAAGACACAGGCCATGGTCTGTGGCCAGGGGAATTTAGGGTCAAGGGTTGGTTTATGAAATTAAAAAA
AAACAAAACAAAACCCACTGACTCA[G/
T]CAAAATAAAGCACGTCTTTGAAAATATCAGTAAAATACTATGATGTGTCAAAGAAGAGAAATGTTACATCAGC
TTTGGAAGAGTCAGGAAGGTTTTATGG G/T 149 0.309 0.000
0.453 0.046 15.1% 192 90.9% 154 91.4% 58 71.3% 80
NA 0 9.7% 62 22.5% 40 15.6% 90
7.5% 40 NA 0 88.2% 76 93.6% 78 91.4% 58
71.3% 80
CV2759372 AB_ASSAYS_ON_DEMAND 9 113.6869 108073198
forward LGD
AGCAGTTAGATGTAACCATTGATGACTGATGGACGTTCCAGGATTTTGTGATATGGTCGTGATGCAAGGAAGGGA
TCACATCTCATGGTGCCCAGCTTTC[C/
T]GGAATCTTCCTGCTTTCACTTTCCCACTTCTTTCTGGGGTGTACCCAGATTTGTCTTGTCTTACCTCAGGGGT
TTCCTCCTTTCCTCTGATACCTTGGCA C/T extended_map 0.101
0.063 0.019 0.135 75.5% 196 30.5% 154 60.3% 58
73.8% 80 NA 0 74.2% 66 62.5% 40 82.2% 90
73.8% 42 NA 0 33.3% 78 27.6% 76
60.3% 58 73.8% 80
rs1571260 AB_ASSAYS_ON_DEMAND 9 113.825 108155576
reverse MIT
GCAAGGAGATTGTCAGCTTTATCTTAAATGCAAGTTTATAGAAGAAAAATCTTTGCTCCTACATGAATAGATTAT
TTCCTTGACATGCTTTGCTTTTAAC[C/
T]GACTAATAACCCCTCCTGCTTTAAGCCACTTTTGATACCTGTTGGATTTGGCTGGCAGAGAGACACAGATGTT
GGGCATGATGGACAATCAGATGATACT C/T 825 0.219 0.007
0.421 0.000 73.1% 160 7.9% 126 2.0% 50 6.2% 64
NA 0 79.3% 58 56.2% 16 72.1% 86
75.0% 32 NA 0 8.3% 60 7.6% 66 2.0% 50
6.2% 64
rs1999598 APPLERA_RESEQUENCING 9 114.4958 108623276
forward MIT
AATAAGACTTTAGTGAGTAATATTTTAAATCCAGGAAAGAGTAATTCTCTTATTCACAAACATTTCAAATTCATG
GCACCATTTTCCATTAATTCCTATC[A/
G]TAAGGCAATTTTCCTCTTTAACACTTAGAAATGTACACACATTCACACACATTAAAGAAGTCTAGAATAAAAT
TAAAACTTACTGGCACAGTCTGGCCAT A/G 2,041 0.05 0.061
0.000 0.013 98.8% 172 82.6% 138 100.0% 56 92.3% 78
NA 0 98.4% 62 100.0% 28 98.8% 82

100.0% 34 NA 0 80.3% 66 84.7% 72 100.0% 56
92.3% 78
rs3780528 AB_ASSAYS_ON_DEMAND 9 115.0656 109047115
forward LGD
ATTGTATGACACACTCCAAGCTCTCACAAACCCCAGAGTAGAGAGGAGAGGAAGTGACAGAAGGAAGACACTTCA
AATGTAGCATAAACCTACTGGAGCA[C/
T]GGACCATTTCCACTTAGAGGAATTATTCATTTCTTTCCCACCTCTGGTAGGGAACACCAATAAGCAAAGCAGG
GTCACCTATTTACTGCTGTTCATTCGG C/T 363 0.218 0.003
0.283 0.016 24.0% 196 89.1% 156 85.7% 56 97.5% 80
NA 0 21.2% 66 37.5% 40 20.0% 90
37.5% 40 NA 0 92.3% 78 85.9% 78 85.7% 56
97.5% 80
rs1864357 AB_ASSAYS_ON_DEMAND 9 116.5464 110192581
forward MIT
ACCCTTGTTGCAGTTGGTTTGAGCAGAGGTAAAAAGATGAAAATAAGATCAGGAGAGAAGCAGACAAATGGAGGA
AGCCTAATTCCCCAGGCCCCTCCCA[A/
G]ATATTTCCTGCACAGTATTCTCTACTGACAGGATAAAAAATTCCCCATTAAAAAGTGCTATCCAGTGGAATCC
TTAGGGAAGCAAGTTTATGCTGGCACT A/G 1,518 0.15 0.006
0.164 0.081 29.8% 198 84.6% 156 77.6% 58 53.7% 80
NA 0 27.3% 66 20.0% 40 35.9% 92
21.4% 42 NA 0 82.1% 78 87.2% 78 77.6% 58
53.7% 80
rs902493 TSCAF 9 120.7597 112485319 forward MIT

AGAGAGTATAGAAGTCAAAGCCAGACTCTGAAGTCAGTTTCACAGAAAATGGCTCTGCGCCTCTCTGATCCTCAG
TTTCCTCATCTGTCAAGTGGGGATA[A/
C]TAACAGCAATTACCTCAGAGGGTTATAAAAAGATTAATGAGAAAATGTTCATAAAACCCTTCATCAAGTGCCC
TCCCATAGACTCAAAAGAAGCCAGCTG A/C 248 0.284 0.014
0.373 0.024 70.3% 320 0.3% 300 3.4% 58 6.2% 80
73.5% 136 78.1% 64 70.6% 34 59.3% 86
62.5% 40 0.0% 152 1.3% 76 0.0% 72 3.4% 58
6.2% 80
rs3789882 AB_ASSAYS_ON_DEMAND 9 121.4844 113045744
forward LGD
CCTCATGCATCCTCTGATCAGTGCTCTGGTCCTGCCTGTTGCAGCCCACAGCCCACACTCTTGGGGTTTGTAGTC
AGAACCCCAACACTAATGGCTGCTT[A/
T]TGCTCCTAATGGACTGTGACTATGGTTAGAGAGTCCTCCTGGCGTAGCCTCCTACTCTAAGCTGCAGAACATC
AAGCCAGGGAGACAGACCTGGCTGTCT A/T 545 0.227 0.128
0.072 0.012 69.7% 198 4.6% 152 37.9% 58 11.3% 80
NA 0 66.7% 66 70.0% 40 71.7% 92
61.9% 42 NA 0 3.9% 76 5.3% 76 37.9% 58
11.3% 80
CV1459509 AB_ASSAYS_ON_DEMAND 9 123.5977 115067685
forward LGD
AGATGCAGGACGAAAAGAAGATGCCACTGACTAGTGTAGCAGCACTTTTAGGCTGCTGGAAGCTGACATGGCTGG
AATCCTAAGTCAGGCCTAGCTACAA[C/

T]GCATTCCTTTGGTATAGATTATTTGCTTTGAATCAAGGGTATTGATGCTGCAGAGTCAATTCTGCAGGAAGTG
AACCCTAAGGAGAGGCACTGAGACTTT C/T 1,476 0.163 0.029
0.095 0.189 90.9% 198 39.7% 156 60.3% 58 88.5% 78
NA 0 95.5% 66 92.5% 40 87.0% 92
95.2% 42 NA 0 41.0% 78 38.5% 78 60.3% 58
88.5% 78
rs1544610 TSCAF 9 127.8141 118294717 forward MIT

AGAATCAATATTTATCTCCTGCCAAAAGTCCTCAGTTGCCATCCTGTCCTTGCAGCTCCTGAGAGCTTCCTGAGG
AGTGTTGAGGGGGCAAAGGGTGGCC[A/
G]GAGAGGAGTGCCCTGAGCCTCACAGACAGTGGTGCCCACCGCAGGGACCGGGAGAGCCACTGTCAGCTCCACA
AAGCGCTTCTGTGGTAATTTGACAGGA A/G 466 0.385 0.029
0.310 0.003 97.7% 306 22.7% 264 41.4% 58 27.5% 80
99.1% 110 100.0% 66 97.5% 40 94.4% 90
97.6% 42 24.1% 112 23.7% 76 19.7% 76 41.4% 58
27.5% 80
rs887807 TSCAF 9 127.9132 118426842 forward MIT

GTGGTTCCCTGTCCAAAACCTTTAAGAGAATGTCTATTACCCCTATAAAGTTGTTCAATGACCTCTTAATTTTCT
AACTATCTTCCCTTGTACCCTACTA[C/
T]GGGCTTCAGTAAAGCTGCTTTCTCATTGACTCCCCTAAATTACAATGCATCTTTCCACCTCTATGCCTTTGTT
CTCTCAGCTTCTGCCCCCTAGAATGTA C/T 1,941 0.118 0.076
0.031 0.084 49.7% 308 94.4% 266 70.7% 58 68.8% 80
46.4% 110 42.4% 66 50.0% 40 58.7% 92
38.1% 42 94.6% 112 92.3% 78 96.1% 76 70.7% 58
68.8% 80
CV2783663 AB_ASSAYS_ON_DEMAND 9 128.2618 119086186
forward LGD
TTTTGTTTGGCTTGAGGGGACCTCATCTCTTGTTTTTTCTCCTAATTCAATGGATCCTCTATCTCTTTTCTCTAA
TAACTTCATCTTGGAATGCTCAAAA[G/
T]GTCTATCCTTGGTCTTCTTTTTTTCCACTCCTCTGTCTGTATTCACATCCTTAGTGATCTTAACTAGTCTAAT
GGTTTTAGTATGCTGATGATTCTCAGA G/T 1,854 0.134 0.005
0.179 0.049 54.0% 198 98.7% 154 96.6% 58 85.0% 80
NA 0 68.2% 66 52.5% 40 44.6% 92
42.9% 42 NA 0 98.7% 78 98.7% 76 96.6% 58
85.0% 80
rs603315 TSCAF 9 128.461 119719745 reverse MIT
TTTCCAGCCAGAGTTCTATGAGCTCTGGCACAAAATGCTCATGCACCTTCCCTTCTCTTTCTCTTGTTCCCTAAG
AGTCTGACTAGCTCCCCTCCTGAAG[A/
G]TGCAAGGTGCAAGGAAGATAGTCAGAGCTGCCCTCCTCCTGCTCCCCCACAAGTTGAGCATGCACTGGGCTGC
CAAGGACATTGGGGGACGGAAACCTTT A/G extended_map 0.063
0.033 0.017 0.019 42.9% 308 78.4% 264 58.6% 58
63.7% 80 50.0% 110 39.4% 66 47.5% 40 34.8% 92
40.5% 42 81.8% 110 75.6% 78 76.3% 76
58.6% 58 63.7% 80
rs70156 AB_ASSAYS_ON_DEMAND 9 129.3518 120800552

forward MIT
ACAGATGCTGTGTCCTGCTTCTGGTTCTCTCCTTCTGCATTCCACATTTTCACTCCCTCCTGCACATTCTTCTGA
CTAATCAGCTCATCTTCTGTGCCTC[A/
C]AATGTCATCCATCACTTTTTCTGCGATGATCAACCAGTGCTAAAATTGTCCTGTTCCTCCCATTTTGTCAAAG
AAATCACAGTAATGACAGAAGGCTTGG A/C 1,564 0.157 0.016
0.133 0.041 77.1% 310 21.4% 266 34.5% 58 43.8% 80
74.1% 112 75.8% 66 87.5% 40 77.2% 92
78.9% 38 19.6% 112 22.4% 76 23.1% 78 34.5% 58
43.8% 80
CV11276529 AB_ASSAYS_ON_DEMAND 9 129.7416 121089571
forward LGD
CTCTTTCAAGAAGAAAATCTCAAGAAAACCAAAGAAATAAAGGTTAACCAAGCTTTGGATGAGGCACTAGCACAT
TTTGTCTCAAGCATGTCAGGTTCAA[G/
T]TATTAGTATCACCCACACCTCTTATTAAGCTAGGTAGGTCACTTACTGGGAGGTGGTTTTGCCTCTGCTAATT
GCACATTAGCAAATCCATGCCACTGCA G/T extended_map 0.471
0.157 0.198 0.202 98.0% 196 13.0% 154 57.1% 56
63.7% 80 NA 0 100.0% 66 97.5% 40 96.7% 90
100.0% 42 NA 0 11.5% 78 14.5% 76
57.1% 56 63.7% 80
rs587364 AB_ASSAYS_ON_DEMAND 9 129.8054 121136908
forward LGD
ACTTAAGGTATTTTGAAAGTTTATAATAAAAGTAATAGCTTTTATGGAATCTTATGAGCAAATATATTTGTGTTT
CTGATTTACCTCTTCAGCCTCTCTC[C/
T]TTCTTTGTTTAGATAAAGTCCTGTTTATGACCACAGCTGTAGATTTGGTAATAACAGAAGTACAGGAGCCTGT
TCGATTTCTCCTGGAGACAAAAGTCCG C/T extended_map 0.487
0.159 0.207 0.204 98.5% 196 12.8% 156 57.1% 56
63.7% 80 NA 0 100.0% 66 100.0% 40 96.7% 90
100.0% 42 NA 0 11.5% 78 14.1% 78
57.1% 56 63.7% 80
rs644490 TSCAF 9 129.8618 121178715 reverse MIT

AGGTAGGTTAGCCAATAATGGAAGCAGGGATGATTTCACCTTTTACTATGATCTCAATAATGTTCACATTACAGA
ACCATGTTCTGAGATTCCATTCCCA[C/
T]CAAGCAAGCTTCTGAATACAGTTTGGCTTCCCATAAATATCTGCTAATAGAGAAGACTGCTCTCAATTACCAG
CATCTACTTCTTAAACTAATAAAGTGA C/T 13 0.474 0.184
0.171 0.218 1.9% 310 86.3% 270 38.0% 50 33.3% 66
2.2% 138 0.0% 62 0.0% 32 3.8% 78
0.0% 36 84.4% 154 89.7% 58 87.9% 58 38.0% 50
33.3% 66
rs803733 AB_ASSAYS_ON_DEMAND 9 129.9026 121208924
forward LGD
TTTTATATTGGGTTTGGACAGACTCTTAAGGCATGAATTTTAACACCTATAGCTGGAAACTTTTTCCTTAAATTA
ACTTAATGTCATTGTGGAGGAGATA[C/
T]ATGATGAGAATAAACGGCAATGTTGAAAACTGGTACAGGGGTAGACTTCCTTTTTATTAATAGGATGATTGGA
GAGACTTTAATGTTGGTTGAACTCTTG C/T extended_map 0.495
0.178 0.195 0.195 98.5% 196 12.0% 150 58.9% 56

61.3% 80 NA 0 100.0% 66 100.0% 40 96.7% 90
100.0% 40 NA 0 10.5% 76 13.5% 74
58.9% 56 61.3% 80
rs700088 AB_ASSAYS_ON_DEMAND 9 129.9547 121247583
forward LGD
TCAACATGACATCACTTACCACTCACTGTGCCAGGGTGCCAGGTTCATGTTTCATGTTGAGGAAACTTCACACCA
CAGAGAGGCAGGGTTTTAAGGACCA[C/
T]AACGGGATCATGAATTAGGCCCTGGCCCCACCCAAATCACTGTCCATTATCAGGAGCCATCCACCCCCCTTCA
AACATCCTCGGCCCCTCCATCCCTTTG C/T extended_map 0.483
0.155 0.207 0.191 98.5% 194 13.2% 152 57.1% 56
62.5% 80 NA 0 100.0% 66 100.0% 38 96.7% 90
100.0% 42 NA 0 11.8% 76 14.5% 76
57.1% 56 62.5% 80
rs803726 AB_ASSAYS_ON_DEMAND 9 130.0462 121315400
forward LGD
CCTAACCGTGCCTGGCAATGGAAAATGCTTAATTGCTTAATAAATACAAGCTACCCCCCACCCATCTCTGTGTCC
TTCAGAGTGGTTAACACTCACCAGG[C/
T]GCACAATATATGTTTATTACCAGAACACAACTCTGTCCTTGGAATACATGCCAGCCTCTGATATAAGAATAGA
ATCTCATTCTGCACTCCTTGAGTTCCA C/T extended_map 0.381
0.180 0.116 0.185 93.4% 198 13.0% 154 60.7% 56
61.3% 80 NA 0 97.0% 66 90.0% 40 92.4% 92
66.7% 42 NA 0 11.5% 78 14.5% 76
60.7% 56 61.3% 80
rs7043618 AB_ASSAYS_ON_DEMAND 9 132.5037 122668532
forward LGD
AGTGCCAAACCTGTTCCTGGCTGACTCTTGACCTGAGGGACACAAAGGAGTTCCCAAGTGCCTGGCCTGTCCATA
CACCCTAGATCTGCCCTTTCTCTTG[C/
G]GGACAGCACATCCTTCTTTTCCAAAATTCCTCCAACAGGCAGCCACCGTGGACCCCCAGCAGTGATGGGGGCT
GGCAGCCAGCCTAGCAGCCCCCACTCA C/G extended_map 0.264
0.004 0.388 0.023 68.7% 198 0.6% 156 1.7% 58
7.5% 80 NA 0 77.3% 66 72.5% 40 60.9% 92
73.7% 38 NA 0 1.3% 78 0.0% 78
1.7% 58 7.5% 80
rs518116 AB_ASSAYS_ON_DEMAND 9 134.5075 125091781
forward MIT
GCATGTACACGTGCATGCGTGTGTGTGTGTGTGTGCGCGTGTGTGTATGTGTAAGGTGAGAGAGGCAGAAGGAGG
GTGGAAAGAATGGCGTTTTTGGTGC[A/
G]GTGCAAACTAATTTGCCCAAACTGAAAAAGCTGGTGCTCTCACCATTATGCCAGGCTACCTCCCTGTGTAGTA
GATGACACAGCTGATGTAGATGTATAA A/G 1,057 0.227 0.019
0.189 0.019 9.9% 332 72.3% 310 56.9% 58 86.3% 80
11.9% 134 4.5% 66 10.0% 40 10.9% 92
9.5% 42 70.1% 154 76.9% 78 71.8% 78 56.9% 58
86.3% 80
rs2287116 AB_ASSAYS_ON_DEMAND 9 135.3436 125796858
forward MIT
ATCACTCCATCCGAGAAGGTAAACCTTCCACCAGAGGAGGACTCTGGCTAAGGTTAGATGGACTGGCTTGGGATT

TATGTGGCACAGACTGTCTGACATT[G/
T]CTAGGTTAAGCACGCATTTAACACACTGCTCTGTTTAAGCATGCAATCCACAATGGGGTGGGGTCGGGGGTGG
TGTTTATGCAGTGAGAAGTGATGAATG G/T 1,819 0.159 0.024
0.135 0.022 60.6% 198 6.4% 156 17.9% 56 17.5% 80
NA 0 62.1% 66 55.0% 40 62.0% 92
50.0% 42 NA 0 5.1% 78 7.7% 78 17.9% 56
17.5% 80
rs4240425 AB_ASSAYS_ON_DEMAND 9 135.7408 126211825
forward LGD
GCACATGAGGCAATCCCTATTGACTTGAAATTATTGAATGGAGATCAGTAATGTCAAGTTGGTATTGCTTAATCA
GACAGACTGTTGAACTCTATACTTT[C/
T]TAAATGTTTGGCCATTTGTGGATGTTTATCAAAAGAGCCAGACTTAGATAAGACAGTCTACAGAAGAAAGCTC
CTTTCCAAGAGATAGACATTATTCGCT C/T 1,408 0.168 0.015
0.154 0.000 73.2% 198 15.4% 156 26.8% 56 16.3% 80
NA 0 78.8% 66 80.0% 40 66.3% 92
85.7% 42 NA 0 16.7% 78 14.1% 78 26.8% 56
16.3% 80
rs9031 AB_ASSAYS_ON_DEMAND 9 136.4612 127055937
forward MIT
AGGAGCCAAGAGGAGCCACTTCGCCCAGACTTTGTTTCCCCACCGCCTGCGGCATGGGTGTGTCCAGTGCCACCG
CTGGCCTCCGCTGCTTCCATCAGCC[C/
T]TGTCGCCACCTGGTCCTTCATGAAGAGCAGACACTTAGAGGCTGGTCGGGAATGGGGAGGTCGCCCCTGGGAG
GGCAGGCGTTGGTTCCAAGCCGGTTCC C/T 736 0.205 0.034
0.468 0.005 7.6% 198 64.7% 156 84.5% 58 56.2% 80
NA 0 3.0% 66 15.0% 40 7.6% 92
0.0% 42 NA 0 65.4% 78 64.1% 78 84.5% 58
56.2% 80
rs590086 TSCAF 9 140.0987 128619704 reverse MIT

TGTTTTTCCGTTGGACGATGGGTTGGGAGAGGATGGCCAGCGAAGCAAATGCATGTTTTTTATGAGTCCTCTGGC
GCCTTTTTGCCTTGGCTACCGAAGC[A/
G]TCTTGAAAGCAGAGATTTTTGAAAGCCCCATTGATTTTTGTGTCATCCATCTCAGATCCTGCCTGGCTCAGAA
TTTTGGAGGAGGCCTCATCACTGCTCA A/G 130 0.321 0.008
0.571 0.023 84.8% 330 8.2% 294 1.8% 56 0.0% 78
86.4% 132 80.3% 66 82.5% 40 87.0% 92
71.4% 42 8.6% 140 10.3% 78 5.3% 76 1.8% 56
0.0% 78
rs2304808 APPLERA_RESEQUENCING 9 140.3682 128786066
reverse MIT
TTTTTTGTAATAGTCTTCCCAGGCCTTGCTGTAGTTGGGCTGGCTGCTCTGCGGCTGGCTCTGCTGGCCTGTGCG
AAGAACACAAAAGCAGTCAGGCCTT[A/
G]CGGGCTCCTCACAGCCTCGGCCCCAGCCCGCCAGCTGCAGGCCCTGCCCTGCACTCCTCCACCTCGCTCCTGG
CCACACACGGCTCCGCAGCCCTGCCTG A/G extended_map 0.14
0.105 0.019 0.003 77.2% 162 24.4% 156 62.5% 56
18.8% 80 NA 0 72.6% 62 90.0% 10 78.9% 90
63.2% 38 NA 0 25.6% 78 23.1% 78

62.5%	56	18.8%	80
rs4740359	AB_ASSAYS_ON_DEMAND	9	140.5202	128871264
forward LGD
TCTTTCTAGAGTTGGTTAATATCCATGTAGGTTAGATTGAAAAACTTGAATTCAGAAATGTACGGTGTTGGAGCA
GACATGGATCTGGAAGCCAAGAATA[A/
G]CGTTGGTGTTGTTGTTGATGGTGAATCTGAAAGAGTGGGCAGATGGCAACTTTTTGCCAGAATCATTCAGGGT
CAAAGGGCTAGTCATATTTACAAGGGA	A/G	1,035	0.178	0.113
0.043	0.152	32.3%	198	91.0%	156	56.9%	58	50.0%	80
NA	0	37.9%	66	35.0%	40	27.2%	92
40.5%	42	NA	0	93.6%	78	88.5%	78	56.9%	58
50.0%	80
rs503623	AB_ASSAYS_ON_DEMAND	9	144.7313	130599060
forward LGD
CCAGGAGCGCGTGGCCTTTTCTTGGCCATCCCCATCCACAAAGCAGCATGCGGAGTGGCTGCGGTCGGTCCGCGT
AGATCAGCACGTCGGTTACACACAG[C/
G]GTGTCCGCCGTGTGTTCGGACCTAACACTCCTCTCAAATACACACTAAGCTGCTGACAGCGGCAAACGCGGGG
ACTTCAGACACCTAGCGCAATGTATAT	C/G	1,787	0.109	0.021
0.065	0.038	80.2%	192	34.4%	154	51.7%	58	57.5%	80
NA	0	81.2%	64	81.6%	38	78.9%	90
81.0%	42	NA	0	38.5%	78	30.3%	76	51.7%	58
57.5%	80
rs4962218	AB_ASSAYS_ON_DEMAND	9	145.6455	130983888
forward LGD
GGCTGCAGCTCTTAGAAAGAGCAAACATCTACAGACGTGAGCAACACCAGCAGAACCAGGAGACGCAGCGTCTGA
CAGCTCCCTCACAGTTCTGGAAGCC[A/
G]AACCAACATTTTCTGAACTTTAGCTAAATTCATACCCCCTTATTTTTCCTTCATTTGGACGGGGAGGGATTGT
GAGCCCATTGATTGCTGCTTCTAGTAC	A/G	928	0.175	0.028
0.098	0.019	97.4%	196	52.7%	150	72.4%	58	68.8%	80
NA	0	97.0%	66	100.0%	40	96.7%	90
100.0%	40	NA	0	62.2%	74	43.4%	76	72.4%	58
68.8%	80
rs615667	APPLERA_RESEQUENCING	9	146.2144	131139530
reverse MIT
CTCTGTGGAGATAACGACACAGGCCTGGTTACTCATTTAAACACAGGGGGTTGGGCACAGTGGCGTGGCTCATGC
CTGCAATTCCAGCACTTTGGGAGGC[C/
T]GAGGCAAGTGGGTCACTTGAGGTCGGGAGTTCAAGACCAGGCGGACCAACGTGGTGAAACTCTGTCTCTACCA
AAAAATACAAAAATTAGCCAGGCGTGG	C/T	1,840	0.069	0.004
0.150	0.000	42.7%	110	80.4%	112	87.0%	46	78.8%	52
NA	0	31.2%	32	66.7%	6	45.8%	72
50.0%	34	NA	0	80.0%	60	80.8%	52	87.0%	46
78.8%	52
rs2002962	AB_ASSAYS_ON_DEMAND	9	146.6711	131377660
forward MIT_and_LGD
CGTGCAGCTCACCCTCACAGTAAAAGATGTAGTGGTCCTTCACGTGCGACCTGATGATGTATGCCACGTGCTTGC
CCCTGTCTGCAGAAGGACAGCAGCA[C/
T]AGTCCTGAATTAGCCACCGGGGCCTTCAGAGAGGATCCCGGGACAGTGTGCGTTGCCAGGCCCTGCAAGCCCC

GCAGCTCCTGCACCCTTCCAGCCTCCC C/T 421 0.21 0.000
0.350 0.007 35.4% 308 96.6% 266 98.3% 58 92.5% 80
30.9% 110 34.8% 66 35.0% 40 41.3% 92
40.5% 42 97.3% 110 93.6% 78 98.7% 78 98.3% 58
92.5% 80
rs2028002 APPLERA_RESEQUENCING 9 147.0783 131579298
reverse MIT
AAGGACAGAGGGCCCGTGTCACTGGAGGGTGCTGGCCTCAATGACTCTGCAGCCCTGCCAGCTCTGAGATTCTGG
GATCCACAAAACCAGCAACACTTCT[A/
G]TAGCACCCCACCATCTACACAGGAAGCAAGCTTAGAGGGCTCAGTGACTTGCCCAAGGTCACACTGCAGCCCT
TAACCCAGGCTGACTCCAAGTCCAGAT A/G 666 0.196 0.027
0.404 0.126 2.2% 184 50.0% 150 69.6% 56 11.3% 80
NA 0 1.6% 64 0.0% 30 3.3% 90
5.3% 38 NA 0 51.4% 74 48.7% 76 69.6% 56
11.3% 80
rs1611126 APPLERA_RESEQUENCING 9 147.9878 131851181
forward MIT
CTACCCAGAGGAAGCCGGCCTTGCCTTCGGGGGTCCAGGGTCCTCCAGATATCTCCGCCTGGAAGTTCACTACCA
CAACCCACTGGTGATAGAAGGTAGG[C/
G]GGCTCTGCTGCCATCCTCCTCAGAAGCCCTAGGACTCAGCTGTGTTGAGCCAGTGAGCAAATCCCGCCCTTCG
TCTGCCCAGCATGGTGCCCCCGCTGTA C/G 2,010 0.056 0.016
0.169 0.006 36.6% 172 7.4% 148 0.0% 56 2.5% 80
NA 0 37.5% 56 46.2% 26 33.3% 90
40.0% 40 NA 0 5.4% 74 9.5% 74 0.0% 56
2.5% 80
CV357072 AB_ASSAYS_ON_DEMAND LGD

GTGACCTGCCTCCTCCAGGGTGGCCTCAGGCCTGTGTCCACTCACCTCCCTGCCAAGCTCTGGTCCTCCAAGGAG
GGGTTTGGTCTCCTGGGTCCTCCTC[A/
G]GAGAGTCACATCCGCCACCTGGCCGGTCCTGTCGTGGACGCCCTCAGCTCGCTCCCGTCCCCTGCCCCTCTGG
ATGGCACAGACTGCACGTTGTTGCCAT A/G does not map reliably to HG16
public assembly (physical position was chr9: 107,796,546 in Celera R27
assembly, which interpolates to chr9: 132,717,584 in HG16 and 151.2291 cM
in the deCODE genetic map) extended_map 0.077 0.005 0.159
0.003 77.3% 194 38.7% 150 30.4% 56 32.4% 74 NA
0 81.2% 64 73.7% 38 76.1% 92 90.5% 42
NA 0 39.5% 76 37.8% 74 30.4% 56
32.4% 74
rs875444 AB_ASSAYS_ON_DEMAND 9 151.2929 132734629
forward MIT
CCCAAGGTGCTGGCACGAGGGAGGCCTGGTCATGTTATTTTTAGCACACCAGCCCTGCCCCTGCTCTTGTTGGCA
GCATGGTGCCCTGTGGCGAGAGGGC[A/
G]ATGAAGACTCGGCTTCCGCCTGTCCCTTGGCTGACTGGCTGGCACCTGCTGGGTCCCAGGGCCCCAGGATGCC
CCTTGCTGGGTCCTCCCAGGTCTGCCG A/G extended_map 0.101
0.008 0.213 0.001 86.9% 160 45.5% 156 34.5% 58
50.0% 80 NA 0 85.0% 60 100.0% 14 86.0% 86

94.4% 36 NA 0 47.4% 78 43.6% 78
34.5% 58 50.0% 80
CV2002356 AB_ASSAYS_ON_DEMAND 9 151.9149 132846038
forward LGD
TCGTGGCCCCACCTCCCTTTAGATGGCATCTGCTGATTCCTTACCATCTGGTCACCTCTTTGCTTTTAAAAATAT
TGTTTTCAGCAGTTTTGTTCCTCGG[C/
T]GAGTGATTGCACTGATGAACCTAACCTGGTGCTTTACCGGAAATGTAAGTTAAGGGAAGGACTTGGTTCCTTC
TCTCCATGCTTCGCACATCCCCATCAT C/T 1,200 0.145 0.045
0.078 0.163 35.7% 196 89.0% 154 69.0% 58 45.0% 80
NA 0 34.8% 66 32.5% 40 37.8% 90
27.5% 40 NA 0 91.0% 78 86.8% 76 69.0% 58
45.0% 80
rs7864699 AB_ASSAYS_ON_DEMAND 9 153.6884 133163696
forward LGD
AACCAGAAATGGGAATTTTATCTGGGCAGGGCTACCCACACTGCACCATACTGAGAGAATACTGCAGAGAATCCC
TCCCACCAGGAGAGCAGGGCCTCAC[C/
T]GTGGGACCCTGGGGTTCCAATGCAGGGCAGCGTGCCCCATGCCCCGGGCCCCCCTGCTGCCCCATGGGCACTG
GGGGCTTCAGGTCCTTCTGTGTCCGGT C/T 141 0.314 0.048
0.236 0.039 13.6% 198 89.7% 156 69.0% 58 71.3% 80
NA 0 12.1% 66 12.5% 40 15.2% 92
16.7% 42 NA 0 91.0% 78 88.5% 78 69.0% 58
71.3% 80
rs2298246 AB_ASSAYS_ON_DEMAND 9 156.0078 133579132
forward LGD
GACACCGGTGCTGGGTGGACGTTGCCATGAAGGGCCACTCGGCCAGGCAAGGGAGGAGCTGTTAAGGTTTCTTTG
CTGTGGTTCATCCATCCTGGAATGC[A/
G]GGAACCAACCTCCTAGGGGGTCAGATGATGATTAAATGGAGAAGAAGAGAGGAAAACAGAATGCAGGAGTGAC
AGGTCTCCCACGCTGTCCCCAATCACA A/G 1,349 0.147 0.028
0.356 0.024 8.1% 198 55.3% 152 75.0% 56 73.1% 78
NA 0 10.6% 66 10.0% 40 5.4% 92
11.9% 42 NA 0 58.1% 74 52.6% 78 75.0% 56
73.1% 78
CV291906 AB_ASSAYS_ON_DEMAND 9 158.8781 134858963
forward LGD
AGGCTGAGGTGGCAGCCGGGCCCTTTCTCCCGGGCCTGGGGTGCGGTGGGGCTGCCAGCTGGCAGTGTGGGCAGT
GCCCTGGCCTGTGATGCCCCCACCT[A/
G]CTCGTGGCACTTTTAAGTTGGGTCCATCCTGAGTTTGCCAACTGGCTGCCCTGAGCTGCAACCTTGGCCCTGG
TCCTGTCCTCAGGGGGTCCCAGCCAGA A/G 402 0.202 0.011
0.184 0.148 89.8% 196 30.9% 152 43.1% 58 76.2% 80
NA 0 89.4% 66 82.5% 40 93.3% 90
88.1% 42 NA 0 30.3% 76 31.6% 76 43.1% 58
76.2% 80
rs2297537 APPLERA_RESEQUENCING 9 158.9523 134921767
forward MIT
CAGCCGCCATGCCGGAACGGAGGGAGCTGTGTCCAGCCTGGCCGCTGCCGCTGCCCTGCAGGATGGCGGGGTGAC
ACTTGCCAGTCAGGTGAGGCTGGCT[C/

G]TACCCTGGGGGGCCCTGGAAGGGTCCTGGGCACCTCCTTGCATGTCCTGGGGTTACTGCTGGCCCATGAGTGG
GTGGTTGTGAAGGGAGCTGTGTGGGCA C/G extended_map 0.131
0.016 0.258 0.016 1.3% 160 35.3% 156 50.0% 58
21.2% 80 NA 0 0.0% 54 0.0% 16 2.2% 90
0.0% 32 NA 0 33.3% 78 37.2% 78
50.0% 58 21.2% 80
rs7851870 APPLERA_RESEQUENCING 9 159.4403 135334644
forward LGD
CCAGACCTGCCAGCCCCGGCGTCCTGGAGCTGGGGGCTACAGCCCAGCCTGAGCTCTGGGTGGGAAAGCAGCCTG
CCCCATGCTTCCAGCCTGCAGAACA[A/
C]AGAATGAAACATGCTGGTAGACTCCACGAGGGCAGGGCCTCTCCTGTCGCCTCTGGACACAAGTGGCGACAGC
CTGCTGGGGGCTCTGTGGCTCCATTCC A/C 1,641 0.101 0.002
0.156 0.004 65.7% 198 100.0% 154 100.0% 58 98.8% 80
NA 0 62.1% 66 62.5% 40 69.6% 92
61.9% 42 NA 0 100.0% 78 100.0% 76 100.0% 58
98.8% 80
rs4427247 AB_ASSAYS_ON_DEMAND 9 160.3124 136072562
reverse LGD
CTTTTTTTTTTTCTTTTTTGGATTATATAGATTCACAGTTTTATCTCATCTATAAAAAAAGATAATTCCAGTGTT
ATTTAAAGGATTCCAAACCATAGAT[A/
G]AAGACATTTTAACTCTTCAATTCATTTTACAAAATCAGAATAAAAACTCTAGATAAAATAGCAATAGAAGGAA
ACTATTTAGCTACCACAATCATATAAT A/G 859 0.15 0.064
0.470 0.153 20.2% 198 74.3% 152 96.4% 56 28.2% 78
NA 0 18.2% 66 10.0% 40 26.1% 92
14.3% 42 NA 0 71.1% 76 77.6% 76 96.4% 56
28.2% 78
rs1476129 TSCAF 10 1.18 219520 reverse MIT
CACTGGCATCACACAGACAACAATATATGTGTGTGGCGCTTGGCTGTATTAAAACAGTCATCCTTGGTGTATCCA
TTTGAGATGGGCTCATATGTAAGCT[G/
T]CATTTTAGCTATTTCAATTTATCAATTATTATATTAAAAATCATTGACAAATTAGGTTTTGGTGGAAATAAGA
TATCTTATTCTACTTTTAATTAACAGT G/T 2,024 0.043 NA NA
NA 23.5% 136 2.6% 156 NA 0 NA 0
23.5% 136 NA 0 NA 0 NA 0 NA
0 2.6% 156 NA 0 NA 0 NA 0
NA 0
rs4881331 AB_ASSAYS_ON_DEMAND 10 1.4496 471451 forward LGD

CCAGGTGAGTTCCGAGACTCACAGGCTTTCCTCGAACACCAGGTGAGTTCCGTCATCCCTTAGCCTCACTTTTTT
CTTCTGACACAGAAGACAACAGTCA[C/
G]GACTTCACCTGCTTATCATGAAAGCTCCATGTGAGAACAATGTGAGGATGCCAGTGAAGGGCATTTGCAAAAC
AAAGGGATTCACGAATCGGGTCCATCA C/G 1,127 0.122 0.005
0.254 0.004 47.0% 198 93.5% 154 98.3% 58 97.5% 80
NA 0 53.0% 66 50.0% 40 41.3% 92
38.1% 42 NA 0 93.6% 78 93.4% 76 98.3% 58
97.5% 80
rs1013504 TSCAF 10 1.9455 906816 forward MIT

ATCATTGACTCAGGTGCCCAAGGCAGAAACTTGCAAATACAGCTTTAACTTCTGCTCAAGTTTCTATCCCTGTCA
TGAAACTGTGCAGAAAACCACCAAC[C/
T]GAACTGAATTACCACCCAGTTTCTTAAAGCATCTCCCTTCTTCCCACCTCCCCAAACTCCACAGATTCTTCCA
GACTGCCCTCCCTAAAGCGAGGGACTC C/T extended_map 0.036
0.046 0.000 0.052 98.5% 330 85.6% 306 100.0% 58
100.0% 80 97.7% 132 100.0% 66 100.0% 40 97.8% 92
87.5% 40 81.3% 150 87.2% 78 92.3% 78
100.0% 58 100.0% 80
rs3812656 AB_ASSAYS_ON_DEMAND 10 2.0759 1021284 forward LGD

CATGGGGTGGCGGGAGGAGGTGGTGGGGCTGTGGGCTGGGTGGCTGCACCAGCTGGGCTGAGGAAGCTGGGCTGC
ACTTTGAGGGTGGTGATCAGTGAGC[A/
G]TGGTTTCACAGGAAGACTGCTGGAATACCTTTGACCAAGTTTCCTTACTGAGAGGTTCTACTTAATTTACCCA
AGTAACAGCAATAGCGCTATGACGGGA A/G 975 0.119 0.028
0.319 0.002 84.2% 196 37.7% 154 19.0% 58 32.5% 80
NA 0 80.3% 66 85.0% 40 86.7% 90
71.4% 42 NA 0 43.6% 78 31.6% 76 19.0% 58
32.5% 80
CV2736410 AB_ASSAYS_ON_DEMAND 10 2.2696 1191287 forward LGD

GTCCAGGAGGGTGGGGGGCCAGGGCTGCCCAGAGAGCAGTTCTGTGCCACTGGCTGGATGTGCAGAGCAACCTGG
GGATGCACGGGGCACCCGGCACGTG[C/
T]ACCTGCTGAGTGAGGGTGGCCTCCGTTGGGTAGGACCTTGGATTTGAAAATCTGTGTAGGAAGCCCAAGGAAG
GGTGAGGAAAAAAGGTGTCCCTGAAAC C/T 1,673 0.076 0.043
0.017 0.001 27.8% 194 67.3% 150 42.6% 54 63.7% 80
NA 0 21.2% 66 38.9% 36 28.3% 92
21.4% 42 NA 0 70.3% 74 64.5% 76 42.6% 54
63.7% 80
rs915265 TSCAF 10 4.4937 1930399 forward MIT
GAGAATGCAAATGTATGCAGCTGAAAAATGCATCTCCCTTTTTTCCAGATTAAAGCATCTTTCAGTGTGTGAGTG
CTGGGTATTCTTGTGATCTTTCACC[A/
G]TGTAAGTGCTGTGTGTTCTTGTGAGTAGGAAACTTTCACTGCACTTATCTCCAGGCAACGTTTAATATTACAG
TTCTTACATTTTCATCCACTGAGGCAG A/G 1,288 0.114 0.027
0.076 0.022 52.8% 324 7.8% 308 20.7% 58 19.2% 78
43.3% 134 56.5% 62 71.1% 38 56.7% 90
45.2% 42 7.8% 154 7.9% 76 7.7% 78 20.7% 58
19.2% 78
rs1041595 TSCAF 10 5.3324 2138223 forward MIT
TGTTGAAGACCCCATGTGAGCTGGTCCCAGAGGACTTTCTCTCCAGGAATACTGGGCCCCGCACCTTTCCTGTTC
CTACGATTTTCACACTCCTTCCCCC[C/
T]GTCTCGAATGCCTTTGTTATACATTCTCCTTCTCACACTTCAGATGTTCTTTGTAAATTGAAAACCTTCTCAT
TCAGCTACATGTGAACAATGAGTTACA C/T 1,842 0.069 0.001
0.135 0.003 31.5% 330 2.7% 298 0.0% 52 0.0% 80
24.2% 132 33.3% 66 30.0% 40 41.3% 92
21.4% 42 0.7% 150 5.4% 74 4.1% 74 0.0% 52
0.0% 80

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rs768629        TSCAF   10      5.644   2305845 forward MIT
GAGAAACTATCTGAAGTACTAATGGTAGAGTATTGTCAACAATTAATGACAGGAACTAAACCACAAATCCAGGAC
AGAGAACAACAAGTAGTGTAAGTCC[C/
T]GAAATAAGGATACCTACTTCTCACATCAAAACTGCAGAAAGCAAGAGACAAAAGTGAAGTCTAGAAGGAAATT
GGGGTGGAGATAGGGATAGGGAGATAC     C/T             620     0.164   0.170
0.012   0.128   61.3%   326     6.5%    306     48.1%   54      41.2%   80
        59.1%   132     67.2%   64      65.8%   38      58.7%   92
54.8%   42      3.9%    152     6.6%    76      11.5%   78      48.1%   54
        41.2%   80
rs728939        AB_ASSAYS_ON_DEMAND     10      11.5356 3285092 forward MIT

GCAGTCCCTGGTTTCTTCAGCAGGTGCACCCTCTGCACACATGCTACTCACCTTGCTCCTCCTCATGCTCTGACA
CCGAGGCTTCTCCATGCTCCACCAC[C/
T]GAGAGGGCTTCCATTAAAGTCTACGCCCAGGTCACGTCCCCGTCTCCCCTGCTCCCCTGAACAGCACACCTGT
GTCCGTTTTCCACTAGACAACTGCACA     C/T             1,943   0.063   0.006
0.054   0.067   29.9%   324     65.8%   304     57.1%   56      35.0%   80
        27.3%   128     35.9%   64      25.0%   40      31.5%   92
35.0%   40      64.2%   148     64.1%   78      70.5%   78      57.1%   56
        35.0%   80
rs2279419       APPLERA_RESEQUENCING    10      12.7801 3756761 forward MIT

ACACTGGAGATAATGGATCACTGTAAGCATAAAAGGGGCTTTTTGTTTTCTTTTACAAATATGCCTAGATAATTC
TCAGATACACCTGAGTAACAGCACA[C/
T]GTTCTCTACCTTTCAGACCTGTTGAGGGTGAGAGGGAGACGGTTAATGAAAGGCTGTGAGAACGCGATGCACA
GAGTCCAGAGAACTTTTGAGATCATCA     C/T             extended_map    0.235
0.001   0.252   0.012   1.1%    186     52.6%   154     48.3%   58
65.8%   76      NA      0       0.0%    64      6.2%    32      0.0%    90
        20.0%   40      NA      0       53.9%   76      51.3%   78
48.3%   58      65.8%   76
rs4242762       AB_ASSAYS_ON_DEMAND     10      12.7927 3761541 forward LGD

GCAAAGATGAAAATCGTCTTCATGACTTGCATGTGCAGCAGAGGAAACCACAAGTTATTCCCTGCAAGCCGGAAG
CGGGCGGATGTTTTCATGGCCAAAG[C/
G]CAGCAGTCCCCATTTCTGTCTGTCATATTTTAGGGTAACTTGATGGAAGAGAGGGAGCAGGTGGCAGGGACAG
CAAAGCACAGGCACCTTCTAGAAACAG     C/G             422     0.314   0.004
0.319   0.006   0.5%    198     62.2%   156     55.2%   58      71.3%   80
        NA      0       0.0%    66      2.5%    40      0.0%    92
2.4%    42      NA      0       67.9%   78      56.4%   78      55.2%   58
        71.3%   80
rs2025163       AB_ASSAYS_ON_DEMAND     10      14.0896 4253104 forward MIT

TCAAATGTTTTATAATTAATTAAATTCTTTAACTTATGTATTTAGTTGGCCTGTTTTTTCTTTGAATATGCATCC
AGATATCCCAGGTCACAGGAATTTC[C/
G]ACTTATACTTAGGTTACAAAACCATGCTGATGCACACATTTGAATTTTGTTGATCTACTTTTTCTGGTTCCCT
TTCCCTAGAGTGTTCTCTTTTTTTTTC     C/G             161     0.303   0.010
0.333   0.001   13.1%   198     87.8%   156     79.3%   58      90.0%   80
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        NA      0       7.6%    66      25.0%   40      12.0%   92
16.7%   42      NA      0       89.7%   78      85.9%   78      79.3%   58
        90.0%   80
rs1036953       TSCAF   10      15.2914 4688664 forward MIT
TGACAGAAACACCAATGTGAGTAAGGACTTAGACATTGTCAGAGTAGAGTTTCATAAATTATTGCAATCATGACC
GTGATATACATATAATATAGATGTA[C/
T]ATACAGGCAATTTTCTGTAAATAGCCAGATAGCAAACATTTTAGGCTTTACAGAGCATACGGTCTCTGTCACA
GCTACTCAACCAGGCCATTCTAGAGCA     C/T             1,857   0.087   NA      NA
        NA      69.5%   118     100.0%  154     NA      0       NA      0
        69.5%   118     NA      0       NA      0       NA      0       NA
        0       100.0%  154     NA      0       NA      0       NA      0
        NA      0
rs1413781       TSCAF   10      16.3224 5200670 forward MIT
TCCTAAGTATAATGCCTAAGCCATTTTCTTGAAGAGTACAACCTTCCTTCTGTAACGTATGATGACAAGAGAAGA
CAGTACATCAACCTCAAAGCCTCTG[A/
C]TTCAAAAATTCAAGAAAATAACAACAGCCACCTTCAAGGCTCTGTCTTAATTAGGGTTCCTGAGTCCATCTCT
TAGGATCTTCACAGATACAGAGATCCA     A/C             1,505   0.119   0.008
0.261   0.014   42.5%   320     89.7%   312     96.6%   58      97.5%   80
        34.6%   130     43.8%   64      50.0%   34      50.0%   92
69.0%   42      88.5%   156     88.5%   78      93.6%   78      96.6%   58
        97.5%   80
rs1413622       APPLERA_RESEQUENCING    10      16.3539 5214553 forward MIT

TTGTGTGATAAATTCCAGGCAAGGGAATATAAGTTGAAAATTTTCTTATTTTGAAAAAAAAAAAAAACACATTAT
AAACTCATGTTCATGAAAGACATTC[C/
T]ACAAATAGTCCGAAAATAAACTTCTTAACATTCACACTAATGGCAGCTTCATATAAATTCACTTTGCTACCAG
CTTTTTAATAGAGTCATTTCATCCATA     C/T             extended_map    0.064
0.162   0.011   0.306   80.1%   196     45.8%   142     90.4%   52
100.0%  80      NA      0       74.2%   66      81.6%   38      83.7%   92
        61.9%   42      NA      0       48.6%   72      42.9%   70
90.4%   52      100.0%  80
rs725207        TSCAF   10      19.0393 6399159 forward MIT
TTGGATTTAATTATGGACTAAGCTGTGATTTTCTGTGTAATTAAGAACCAAACTAAAGTTTAAAAAATATGCCTT
TGTTTTATGGAAGAGTCCAGAGACA[C/
G]CATCATTATACTGTGTGTCTTTATAAAACCCATATACCTTATTCTTTTGTTTTATCTAGCTATTATATTGTCT
ATAACTTACTTTTAAATATTCTAGTAT     C/G             1,910   0.072   0.004
0.101   0.002   25.1%   334     0.0%    304     0.0%    58      0.0%    80
        23.2%   138     33.3%   66      34.2%   38      18.5%   92
4.8%    42      0.0%    152     0.0%    78      0.0%    74      0.0%    58
        0.0%    80
rs1969825       TSCAF   10      21.0076 7225326 forward MIT
CCTTGAATGGCTGTTGGTTTTTCTAGGCCCTCCATTGACCCTATGTGTAGAGACTTCCCTCTCCGTGCCTTTGAA
GAGGGACTCCAGGACCCACGTTGGG[A/
G]CGGTTCTTGCTTATTGCTTTTGTTGCATTTTCGAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAGAAACAGCAC
AACTGGGAACACCGTATGTTCCTCGTG     A/G             1,524   0.102   0.001
0.188   0.001   51.2%   322     8.6%    290     5.4%    56      10.0%   80
```

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        52.3%   130     61.3%   62      47.4%   38      44.6%   92
47.6%   42      7.2%    138     15.8%   76      3.9%    76      5.4%    56
        10.0%   80
rs2027105       TSCAF   10      24.93   8820205 forward MIT
CTTAGGGAAAGTCACTTCTGTTTATTTTTGTGTGTAGGCATCATTTACTGTGTATATGAAGCAGGGATAATAGCT
CCTACTTGGAAATCACTTTAAAAAC[C/
T]CATGTATAAGTAGGAAGCAGCATTACATTAGTATGATGTAGGTTTTGGCAAATGTACTGTAAGCTATTGTAAA
TAAGTGATCCTATGAAGGTACACACAT      C/T             extended_map    0.162   NA
        NA      NA      14.0%   100     68.8%   112     NA      0       NA
        0       14.0%   100     NA      0       NA      0       NA      0
        NA      0       68.8%   112     NA      0       NA      0       NA
        0       NA      0
rs729333        AB_ASSAYS_ON_DEMAND     10      24.93   8891864 reverse MIT

AAAACCAAGACAGTGTTCCAAAAACTGGACCAAGCCAACAGAATAAAAGATATTCAACCTAGAAGCACTTTTCTG
CCAAGGACTCAACCTAAATATCCAC[A/
G]AAACTCAACTATAGGATTCAATTTCTTTGTAAAAATCATCTAAGTCTCAAGGTTGTCGAAAGCCCATCTATTT
CCATTAGAATTGTCTCAGGAACTACAC      A/G             1,182   0.193   0.117
0.027   0.013   100.0%  326     60.8%   296     94.8%   58      47.3%   74
        100.0%  136     100.0%  64      100.0%  36      100.0%  90
97.5%   40      57.8%   154     59.7%   72      68.6%   70      94.8%   58
        47.3%   74
rs1414086       AB_ASSAYS_ON_DEMAND     10      25.6711 9424673 forward
MIT_and_LGD
GCGAACAATGTATCCTTTCTGTCATTCCCAAATCCCTGGATCTTCAGATTCCTTCCGTGAAAGCATGCCAGGGGA
ACATCAGGATTTACACTCCTTCATT[G/
T]TAAAGCATATTTAGATGCAGGCTTTAATTAATCCATCCAGCAGACGATTGTCATTGCCAAGTACTCAATAAAT
TTCCATTTTTAAGGTAGCTCAAATACA      G/T             356     0.226   0.009
0.273   0.003   69.8%   334     5.1%    312     10.3%   58      7.5%    80
        72.1%   136     71.2%   66      75.0%   40      63.0%   92
76.2%   42      7.7%    156     3.8%    78      1.3%    78      10.3%   58
        7.5%    80
rs957929        TSCAF   10      26.8976 10078593        reverse MIT
TTCAGTCTCCATTACCACCTCTTCAGTTGGAGCTCTTACTCTTACCTGGAAAAATGCAATCTCTACGTTTCTGGT
CACTTACAAGTCACATTCCCTCCAC[A/
G]CATTTCAGCCACATTAACTTTCTAGATCCACAACCCCAATTTACCCTCTCCCAGAAACTTGCAATGTAATGCA
AAATTAATGTCTGTGCTATCGCCTGCA      A/G             1,028   0.157   0.013
0.346   0.017   39.5%   334     93.2%   308     100.0%  54      100.0%  80
        35.5%   138     43.9%   66      47.5%   40      38.9%   90
61.9%   42      93.6%   156     97.3%   74      88.5%   78      100.0%  54
        100.0%  80
rs201079        TSCAF   10      27.79   11006809        forward MIT
CTGGTTGTTTAGCTCAAGGCAGAGTTAGGTGATTCTAACATGTTATAGCGAACCTAATAGGTATGCGTTAGAATC
TGCCTCCTTTTTTCTTTTTAACTGG[A/
G]CATTAGCTTTGTACATTTCAACACAATAGGCACATTTAGAGTCACATTGTAACTAGCCGTGCCCCTAGACGGA
AGCTTCTCTGCTCCTAAATTTCTCAAA      A/G             728     0.231   0.001
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0.362 0.001 37.8% 304 99.6% 284 100.0% 56 100.0% 76
36.5% 126 41.7% 60 28.9% 38 41.2% 80
52.6% 38 99.3% 144 100.0% 66 100.0% 74 100.0% 56
100.0% 76
rs867764 AB_ASSAYS_ON_DEMAND 10 30.9889 12758868
forward MIT
ACGGAGGGGAAGATTCAGCTGTAGGATTATCAGGCTCAGAGAATTAGACTCTATTATCTCCCCCGCCTACACACA
CACCCCTGTACTGATGAGAAAAGTA[A/
G]AGCAGCGAAGGGGAGGGTACTGAGCTTAGCAGCAGCCAGCTTCATTGTCAGTTCCATACCTGGGAGAGCCTCA
GAGCCCACCCTCTGTGAAAGGAGGGAG A/G 349 0.247 0.007
0.373 0.003 0.3% 334 50.0% 300 60.3% 58 43.8% 80
0.0% 136 1.5% 66 0.0% 40 0.0% 92
0.0% 42 49.3% 146 52.6% 78 48.7% 76 60.3% 58
43.8% 80
rs660592 AB_ASSAYS_ON_DEMAND 10 32.3413 13152273
forward LGD
TTGGCAAGTAAATGATACAGATGACAAGGATTTTCTCTTTTAGGTCTATTACCTAGAATTTTAGTATTCCTCTGC
AAATTAGGTAGGAACACTGTTACTC[A/
G]GTAAAACCCTATTTTAATGAGATGATTCTGGGTACAAAAAAATGAATTTTACAGAAAATTAGAAACTGATGGT
CTATTCAGATTATTTTTGTGAGAAGAA A/G extended_map 0.184
0.143 0.029 0.000 28.8% 198 89.0% 154 48.3% 58
90.0% 80 NA 0 25.8% 66 15.0% 40 37.0% 92
23.8% 42 NA 0 88.5% 78 89.5% 76
48.3% 58 90.0% 80
rs2039014 AB_ASSAYS_ON_DEMAND 10 36.3417 14819085
forward LGD
ACAAATATCAACTTGGCCATGAATTCTAATCAGCTACCTATAATACTACCAAAAATATCTTAATCTGGATGTGGC
TATACACTGAAAATTTTGGTTTTTG[C/
T]TGGTTGGTTATGGGCTTTGGTTTAGTGGTGCTAGAAAAAAACATAGCAGTTTTTGCTGTGACAGAGGATATGG
TAAAACTCTCTGTCCAATTTCAGAATG C/T 246 0.284 0.014
0.371 0.088 70.2% 198 0.0% 156 3.4% 58 18.8% 80
NA 0 54.5% 66 75.0% 40 79.3% 92
77.5% 40 NA 0 0.0% 78 0.0% 78 3.4% 58
18.8% 80
rs6602814 AB_ASSAYS_ON_DEMAND 10 36.424 15160400
forward LGD
GAAAACTACTTCTTCACATTCATATTGCTGGTAAAATTACTGTTTCCTCTCTTGCTGTTAAAATGACCAGAGAAT
CACCAACTGTTGGGGAAGAGTGGGA[C/
T]GATCTTTCCATTGTCCCTCACACCCAATCAATTGTAAAGACTGATAAAAAACAAAACAAAACAAAACAAAACA
AAAAAACCCCGCTCACAACAAAACCCA C/T extended_map 0.194
0.075 0.564 0.000 11.1% 198 69.2% 156 94.8% 58
70.5% 78 NA 0 12.1% 66 5.0% 40 13.0% 92
19.0% 42 NA 0 66.7% 78 71.8% 78
94.8% 58 70.5% 78
rs1326207 AB_ASSAYS_ON_DEMAND 10 36.4266 15170911
forward MIT_and_LGD

GTACTTTAATCTCTCTTTTATTCTATTAATTTACTCTTTATTTTCCTTTCCTTTCCTATGACTTAAAAGGGGGAA
AGGAGACTGGGGCAAGCCAATGAGA[A/
G]CTGTTTGCATCTTGACAATCGTCCTTTTCTGCCTTGATTTATGCTGTACTCACAGTGAGACATTCAGTGGGGC
TGAGCCATGGTGTCCCCATAGTGGGTA	A/G	775	0.234	0.073
0.622	0.002	92.3%	336	30.6%	284	5.2%	58	25.0%	80
	97.1%	138	87.9%	66	95.0%	40	87.0%	92
83.3%	42	32.0%	128	32.1%	78	26.9%	78	5.2%	58
	25.0%	80
CV1344988	AB_ASSAYS_ON_DEMAND	10	37.4121	15554686
forward LGD
TCAGTGCCCTCCACCTGGAGCTGGAGCCACTCCTTACATATAAATCAATGGAAATTCCCCAATCAATACTGGGAA
AGAAGGCAGTGGGAAGAGCAGATAG[A/
G]TGGGGTGGAAGCAAGAGAAAAGGGTAGCTTAGGGGACCTGCAAGCCAATTGCCCAACCTGTGAGACCATGGCG
ATGTCTGTGGGCAGGCACAGTTCACTC	A/G	440	0.259	0.002
0.396	0.094	93.9%	198	29.9%	154	24.1%	58	66.2%	80
	NA	0	93.9%	66	95.0%	40	93.5%	92
92.5%	40	NA	0	30.8%	78	28.9%	76	24.1%	58
	66.2%	80
rs2296511	AB_ASSAYS_ON_DEMAND	10	37.4337	15562824
forward LGD
CAGTAGTGTTGGATGGTGTGGTCTTAGTTCTAAGTTCTATAGTAAATCAGTCATTTCACCTTAGTTCACCTTGTA
AATTCTATAGTGATTCAGACATTTC[A/
G]TCTCTGCAACTTATGCTGGATTGATCTGGACTGCAACTTACGTTCCCATACGCATTTCAAAGTGTCTGCCAAG
TACAGAACGATTAAAGCAAAAGAAAAT	A/G	extended_map	0.176
0.004	0.258	0.323	46.5%	198	99.4%	156	98.3%	58
43.6%	78	NA	0	48.5%	66	52.5%	40	42.4%	92
	50.0%	42	NA	0	100.0%	78	98.7%	78
98.3%	58	43.6%	78
rs1473360	AB_ASSAYS_ON_DEMAND	10	37.7445	15679786
reverse MIT
TGACCCAGATAATTTCCTACTTTTGACAACCCTTTGTATTATCAAGGGATACAACATTGTGAATTAATGATTTGA
CTTAGTGATATATGAGTGAGGGGGG[A/
G]AAAAGGGATCCACAGATTTCTAGGACTATGTAATATAGGTAGAATTTAAAAGGAATTTGGTGGCTGGGCATGG
TGGCTCGTGCCTGTAATCTCAGCACTT	A/G	1,491	0.17	NA	NA
	NA	50.9%	114	0.0%	134	NA	0	NA	0
	50.9%	114	NA	0	NA	0	NA	0	NA
	0	0.0%	134	NA	0	NA	0	NA	0
	NA	0
rs7904872	AB_ASSAYS_ON_DEMAND	10	38.1282	15841437
forward LGD
TTTTCAGAGAGGAAAAGAGCAGATCACTAAGTGTACAAAGTTTCAAGACAGAAGAAAGTAAAGATAACTGAATCC
ATTCAGATATCTACAAGGACTTCAC[G/
T]GATACAGCAACTTCCATTTCTACACGGTACTTCGTAAGGGAACTCTGAAGTATGACAACTTAGTTTTGAAGTT
ATACTTGAAAGGTCAGTGAGTTAGCTA	G/T	977	0.225	0.003
0.316	0.000	67.3%	196	3.2%	154	5.2%	58	2.5%	80
	NA	0	62.1%	66	72.5%	40	68.9%	90

77.5%	40	NA	0	1.3%	78	5.3%	76	5.2%	58
	2.5%	80
rs7085750	APPLERA_RESEQUENCING	10	41.7869	17369050
forward LGD
AAAACTCATTCCACCTGTGCTGCAAGTCAGTCTCAGCAACAAGATTAGTGCTTAAGCTGAGAAACATGTTGAACA
ATGAAAAAGTGTTCCTGATCAGTTA[G/
T]GTAACTTGCAGCTACTTACTTCAGAGTTATGATGCTTGGATTTATAGTCACAAGATTTGTTTTACTGCCAACA
TCTTTACTAACATCTCCTGTGGTTGGG	G/T	2,102	0.038	0.083
0.263	0.080	36.2%	196	64.5%	152	93.1%	58	92.3%	78
	NA	0	30.3%	66	25.0%	40	45.6%	90
35.7%	42	NA	0	65.4%	78	63.5%	74	93.1%	58
	92.3%	78
rs1001486	AB_ASSAYS_ON_DEMAND	10	43.4826	18746483
forward MIT
TGTCCCTCCATGAGGCTTGGAATCTCTCCCCTCCTACCTACTCACTGTCATCTATGTCCCAACTCATTGTCTCCT
CCTCAGAGACTTCTTGAGCACTGCC[A/
G]CTCGTATCACCCTGTTTATTTCCTCCACAGAACATTAATGAAAGAGTTCATAGATTGTCTCGTACACATACTT
ACCAATTTCTTGCCTTATTTTATTTTG	A/G	1,141	0.124	0.059
0.037	0.154	73.8%	302	24.1%	266	51.8%	56	70.0%	80
	72.8%	114	76.6%	64	86.1%	36	68.2%	88
71.4%	42	24.1%	112	23.1%	78	25.0%	76	51.8%	56
	70.0%	80
rs3852482	AB_ASSAYS_ON_DEMAND	10	44.7113	19901200
forward LGD
TTTAAGATTATTAGCATTTAATAATCTCTCCTCTGAAAATTGCTTGGTTTCTATAATAAGGAAACCCTATACAAT
CTAGTACTATTATTTTATTTTTAAA[C/
T]TGTGGTCTTCCTTTGTCCACTTCTTTATAAGAGTTTTCTATTTGCATAATCTAGTTACATATTTAATAGCAAA
TCTATTAAACCTTAGCTTGACTTCTAA	C/T	1,355	0.167	0.054
0.474	0.003	73.5%	196	15.8%	152	0.0%	58	20.5%	78
	NA	0	78.8%	66	68.4%	38	71.7%	92
50.0%	42	NA	0	17.1%	76	14.5%	76	0.0%	58
	20.5%	78
rs7079790	AB_ASSAYS_ON_DEMAND	10	45.6851	21300969
forward LGD
CTGCAAAGCTAATTCACAGATGGGGAACTTAAATTGCAATAAGGTGACTGTTAGAGTGTCCAGCAGTGAATTAAA
TCATACTTAGCCATTCATAACAAAA[A/
G]AGAAAAGACACTTCATGTTTTCTTGGTCTTTCAGGTTTTCAAGACTTTCCCGAACATTGTCCTTCCAAGTTAA
CTTTGTTATATTATTATATACGTGTGT	A/G	502	0.299	0.026
0.606	0.258	84.3%	198	9.6%	156	0.0%	58	66.2%	80
	NA	0	80.3%	66	80.0%	40	89.1%	92
83.3%	42	NA	0	9.0%	78	10.3%	78	0.0%	58
	66.2%	80
rs495338	TSCAF	10	49.3875	25624493	reverse MIT
CGGTGACCAGATATTTACAGAGTCATTGATGTTAGCCTTTCTTAAGGTTAAGTTATTCCTTACACACTGTAATGT
GCTATCACACCTCCTGGAGTAATGT[G/
T]TAAGTCAGTCTCTTTTTCTGCTACGGGTTCATGGATAGAATTCCCTTGTTCATCTTCACCTCTAATCATAATA

AATGCTAGACAGATCAAAACCAGCTGA G/T 55 0.382 NA NA
NA 97.8% 90 20.8% 96 NA 0 NA 0
97.8% 90 NA 0 NA 0 NA 0 NA
0 20.8% 96 NA 0 NA 0 NA 0
NA 0
rs994502 TSCAF 10 50.04 26504172 forward MIT
ACTGGTGGCTGGTACTTAGCAGGTGCTCAGTGAATGAATGAATGAATCAATGGGGAGTGAATGAATCTATGTAGC
TGCATTTTTAGGGAATACCCCACTT[C/
T]CCAGACAAGCTGCAGAATCTGAAGGTAAACATTGGCAGGGGTTCTCAGCAATGGATTCAGAAACTTAGCCCAG
CAGCCTCATTGAAAACATTGAAACACT C/T 1,676 0.135 0.002
0.173 0.026 31.6% 310 83.6% 262 80.4% 56 67.5% 80
23.2% 112 33.3% 66 37.5% 40 38.0% 92
21.4% 42 87.5% 112 87.8% 74 73.7% 76 80.4% 56
67.5% 80
rs3893253 AB_ASSAYS_ON_DEMAND 10 50.04 26514922
forward LGD
GGACACCTGACCTATGGGGGCAGGTCTCACAATTCCTTGGAGAGAGCCCTGCCTTGATTTGCTGGGCAGCCCTAG
GAAGCAGCCTGTAGGGGCCACAGGA[C/
T]GGGAGCAAATGTCACTAGGGGAATATTTCTGCCAGAAATCGAGAGAGCCTGTTGATCTGACCTGTCAAACTAT
CTCCCTCCCTATTTTCACATCATCATC C/T extended_map 0.195
0.002 0.308 0.001 44.3% 194 100.0% 154 100.0% 58
100.0% 80 NA 0 40.6% 64 47.4% 38 45.7% 92
38.1% 42 NA 0 100.0% 78 100.0% 76
100.0% 58 100.0% 80
rs703009 AB_ASSAYS_ON_DEMAND 10 50.9205 26893829
forward MIT
CAGTGATTTAAAAAAAGAAATACAGAGGTAAATAACTCTTGGAATAAACAGGAAATAAACAGATTTCACAGCATC
TAAAAAGCAATAAGCAAGAAAAAAC[C/
T]ATATCCCAGTTCCAAGGATGAAAAAGCCCAAAATGAACTACAGAAAAATATATAGCACTAAATAATAAGATAG
TTTTTTAGATGTTAGTTTCTTAATTTC C/T 831 0.209 0.006
0.217 0.149 89.5% 276 29.6% 230 38.0% 50 75.0% 72
89.4% 104 86.2% 58 94.4% 36 89.7% 78
90.0% 40 32.1% 112 36.5% 52 19.7% 66 38.0% 50
75.0% 72
CV1406902 APPLERA_RESEQUENCING 10 51.4453 27375653
forward LGD
GGCCAATTAATCAACCTCTCTGAACCACACAGTTGGGTTGTAATATAGCACAGATACTTTGCAAAGCTGTTGGGA
CGACTATATGGAGAAGCACATAATA[C/
T]GGTGTCTACCCAGAGTAGGGCACTCAACAGTTTCTTTTCTCTGTATTCCTTTAAATATATTTTTAAAAATCTG
TAAAATACTACCTGCTTAAGGAGTCTT C/T 1,571 0.112 0.011
0.090 0.011 83.3% 150 37.8% 156 50.0% 58 50.0% 80
NA 0 77.8% 36 83.3% 36 85.9% 78
68.4% 38 NA 0 37.2% 78 38.5% 78 50.0% 58
50.0% 80
rs675558 TSCAF 10 53.6548 28972312 forward MIT
GACTTCAAAAGCTTTAAAAGAAGCCAGCAGTCTCTCCTGTAGCCATCTTGACTAAAGCAGACATTTTTGTTTAAT

CACTACATACAGTAACGAGAAGGGG[A/
G]CAGAAACAGAAGGGCATTGTTCCACAGTTTCAAAATACCAGTCCCCTTTCTGGCCTTTTGCATGCCACAGGAA
GAAACTTTATGAACGACAGAAATATAG A/G 1,974 0.095 NA NA
NA 96.2% 106 64.2% 106 NA 0 NA 0
96.2% 106 NA 0 NA 0 NA 0 NA
0 64.2% 106 NA 0 NA 0 NA 0
NA 0
rs639299 TSCAF 10 57.7742 30612063 forward MIT
TAATCTTGAGATTCTCCATAAAAAAAAGCGGGGTGGCTGGGAGGGGGAGGCTGGGAGAAGGCCATTTCAGGCAAA
AGCATGGAGCAATGAAAAAAAGCAC[A/
G]AAACATCAGGGATCATCAAGGAGTTCAAGAGTGGCTAAAGCTCCCAACTGGTATACAGGAATCAACGTAAAAG
AAGAGGATAAAAAGGAAGGTGATAAAG A/G extended_map 0.085
0.010 0.066 0.205 27.1% 306 68.6% 264 57.1% 56
16.3% 80 31.2% 112 22.7% 66 23.7% 38 26.7% 90
42.9% 42 67.0% 112 72.4% 76 67.1% 76
57.1% 56 16.3% 80
CV1799948 AB_ASSAYS_ON_DEMAND 10 57.8354 30630675
forward LGD
AATGAAAGTTGGCTAGAATTAAAACTTTGTAAGCGATGAGTATAAAGTATTGTTTTAAGAAAATGAAAGTAGTAA
AGTACTCCAGAAGAGGTTAAAACAA[C/
T]CACGTTAGACATTTTAAACTCAAAGGGATGAAAGACCAATGTTAAAGGGCAAGAAAAACTAGAAATACTCAAG
TAATGAAGGCCCAAGACCTCTCAGTTT C/T 1,722 0.236 0.001
0.260 0.172 2.6% 196 57.8% 154 53.4% 58 11.5% 78
NA 0 0.0% 66 2.6% 38 4.3% 92
5.0% 40 NA 0 62.8% 78 52.6% 76 53.4% 58
11.5% 78
rs928620 TSCAF 10 58.1666 30731460 forward MIT
GCCAAGTTAGCTCCTGCATTTAGTGAAGAGGTTATTTTTCTTTAAAGTCACCAGAGGCATAAAAAAGCCATAGCG
ATTCTTGCAGGGAGGGTGCCACTTC[A/
G]GGGGAATAGCTGGGTTGTGTAAGGTTGGAAGCCCTAAAGAGCCGGTAGCCTAAGGTCTTCAAAGATTTATGAG
CTGCTCTTGATTCGTGTGTATGTTTAG A/G 1,825 0.208 0.000
0.316 0.007 27.7% 310 91.0% 266 91.4% 58 85.0% 80
24.1% 112 21.2% 66 35.0% 40 33.7% 92
40.5% 42 91.1% 112 89.7% 78 92.1% 76 91.4% 58
85.0% 80
CV25765518 APPLERA_RESEQUENCING 10 59.0715 30989087
forward LGD
GAGGCTGATGCTGTTGCAGATTAAAGGTATTTCAGAGCAGCCTGGCACGGTGACTCAGGGCCCGTGGTTTCTGTC
TGGTCACGTAAGGAGTCCTGACTGT[A/
G]TAATTCATCCTATGTGCCAGGAAGGGAACGCACGTTTTTTGAGAACCTACTGTGTGTTCCTTGCTATGCAACC
TCCTGTCTCTTAAGCTTCCCCAAATCC A/G 2,052 0.14 0.016
0.127 0.123 60.6% 198 9.0% 156 19.0% 58 45.0% 80
NA 0 66.7% 66 65.0% 40 54.3% 92
61.9% 42 NA 0 10.3% 78 7.7% 78 19.0% 58
45.0% 80
rs1314005 AB_ASSAYS_ON_DEMAND 10 59.8388 31552847

forward MIT
ATCTAAAGTCGGCTCCACCCATTTTGGACTAATCACATGTCCCTGAACTGCACGTTCACGTTTTTCACAGGCTTT
GGCTTCTTCCTTTCCTCCTGCACAG[A/
T]ATATTATACCTGGTCTCTTCACCTTCGTTTTCCCCTTTAGTCCCCTGCCTATCCTCTCTTTTCTTTCAGGTCT
TCGCTGAAACATGGGCACTCGTGGGAA A/T 1,329 0.26 0.020
0.535 0.009 21.2% 198 91.7% 156 100.0% 58 84.6% 78
NA 0 22.7% 66 25.0% 40 18.5% 92
19.0% 42 NA 0 91.0% 78 92.3% 78 100.0% 58
84.6% 78
rs220073 AB_ASSAYS_ON_DEMAND 10 59.94 31812209
forward LGD
TCCTGCCTTACTGAAGCTTATAGTCTGTAACCTTTAAATTATAAATTAGTGAACTATAACTTAAAACTCAAAGGA
AACATTAGGTTTGTAGGAAAATATT[A/
C]CATTTAGCTCGGTGCTTTCAAAATTTTCTACCAAAGTATCCCTAACAGCCAAGGAGAATAAATGCCTTTTACC
CCACAGAGTCTAGGGAAGCAGCTTGAG A/C extended_map 0.278
0.018 0.553 0.010 80.3% 198 7.7% 156 0.0% 58
15.0% 80 NA 0 77.3% 66 85.0% 40 80.4% 92
85.7% 42 NA 0 7.7% 78 7.7% 78
0.0% 58 15.0% 80
rs7349 TSCAF 10 59.9405 31821911 forward MIT
TCAAGTCATTTTACCTTTACCCAGTTTTTAATATAAAACTTAAATTTTGAAATTCACTGTGTGACTAATAGCATG
ATGCTCTGCAGTTTTATTAAGAAAT[C/
T]AGCCTAACCATACAACTCTCATTTCCTTAGTAAGCCAAATTAGGATTAACTTCTATAAACAGTGTTGGGAACA
ATGTTTAACATTTTGTGCCAATTTGTT C/T 4 0.567 0.011
0.871 0.017 98.4% 322 6.1% 296 0.0% 58 15.0% 80
99.3% 134 98.3% 60 100.0% 38 96.7% 90
91.7% 36 6.0% 150 5.6% 72 6.8% 74 0.0% 58
15.0% 80
rs2153875 APPLERA_RESEQUENCING 10 60.3576 33194573
forward MIT
TTCAGTGTTGTGGGATTTGCACGGGCAGTACTCATTTTCCCTCATACTTCGGATTGACCACAGTTGTTACGGCAC
TCTTATAAATAGGATTTTCACCCTA[A/
C]AACAAAAAAAAAGTGAGAAAAATTATCAGTTACCCTACTAAAATTATGTAGAATAATTTTTATAAATCAAGAC
TAAAAGTTGCAATCATCTTAAGAAGTC A/C 905 0.281 0.004
0.454 0.079 91.6% 166 21.8% 142 15.5% 58 54.1% 74
NA 0 91.4% 58 83.3% 24 94.0% 84
88.2% 34 NA 0 19.1% 68 24.3% 74 15.5% 58
54.1% 74
rs733478 AB_ASSAYS_ON_DEMAND 10 60.3984 33328939
forward MIT
TTAAACCAAAATGAAACAAAATTATAGCATAAATGTAATGTTCAGGGCATAACCTAAACTTGTGAGAGAATTCAA
GGTTAGGGTTATTTCACCATTTAAT[C/
T]GTTGGGTATTAAATATTGGTGAGATTCTCTTTAGTACCTTGTCCCAGATATTAGCGGTCTACTTAATTTAGCT
GTTCAAAAGTAAAATGATGTTGGAAAA C/T 2,133 0.119 0.009
0.105 0.104 78.7% 310 30.7% 264 41.4% 58 68.8% 80
80.4% 112 84.8% 66 60.0% 40 80.4% 92

54.8%	42	35.7%	112	24.4%	78	29.7%	74	41.4%	58
	68.8%	80
rs2776937	AB_ASSAYS_ON_DEMAND	10	60.5222	33610195
forward	MIT
CATTTGAAATGAAGAAGCGTTGAGAGTGCTTTTGAAGAGTTGCAGATATAGTGTGTATCACATAAGGCCATTCAT
GAGGGTGAGGTGGGGATAAGGAGCT[A/
G]GAATAGTAACCTCTTCTCTGCCATGATCCCAAGCTCTTTCCTGCAAACATGCTCTTTGGTGTTGCCACTAAGA
ACCAACTCCCCTCCCTACTACTGGAAA	A/G	1,092	0.276	0.000
0.397	0.035	9.6%	198	79.2%	154	81.0%	58	58.8%	80
	NA	0	10.6%	66	7.5%	40	9.8%	92
19.0%	42	NA	0	84.2%	76	74.4%	78	81.0%	58
	58.8%	80
rs674991	TSCAF	10	62.33	35927192	reverse	MIT
ATTTCACTGGTTAGAAAACAAGCCCAAAACAACTGTGCTTACTGAACATCACACAGTCAGGAGCACAGCTGGGCC
TAGAAGCCACTAAGCCTACTTGTCA[C/
T]TCCTGTCTCTGTAGATCTTTTCCAGCAGTCCCACTCTTCTGTGTAGACCTCTGAGGCCACCACAAGGTGCATT
CAGGCTGGGTGTGGTGGCTCACATCTG	C/T	1,649	0.245	0.050
0.153	0.065	15.0%	300	82.6%	258	58.9%	56	55.0%	80
	18.6%	102	12.1%	66	12.5%	40	14.1%	92
11.9%	42	80.6%	108	80.8%	78	87.5%	72	58.9%	56
	55.0%	80
rs744372	TSCAF	10	62.33	36102630	reverse	MIT
ACACAGCTGAGTCACGGAGATTTTAGGTAAATTATGAGTGTAAAATATTTAGTTCATTCATTCAATATTTAATGA
GCAAAAGCATCATCCTGGTCAGTGG[C/
G]TTAATCTCATTGAGTAAGACCAATGCAGTTCTAGACTCAAAGAGCATCATTCCAGTACTAGAGACAATTTTAA
ACCATACGCATAAGAAAGTGTGTCACA	C/G	2,001	0.147	0.013
0.329	0.017	41.7%	300	93.4%	256	100.0%	58	100.0%	80
	39.3%	112	37.1%	62	55.3%	38	42.0%	88
35.7%	42	92.3%	104	94.9%	78	93.2%	74	100.0%	58
	100.0%	80
rs1002321	TSCAF	10	65.524	44655783	forward	MIT
TTGTCTTTCCAGTTCACCTCTTCCTTCCAGTATCCAGAGGTGACCAGTAAGTGTTGGTGGTGGAGAGAATGGTGC
TAAGGAGAATGGGCTCATCTGTGTT[A/
C]CTAGACTGTTAGCGGGAAACAGAAGCCATCTGATGACAGGTCACCTATCTTTGTGACTGGGTGAATGAGTTGG
GGTGGGGGCAGCTTTCGAGCTTTCATA	A/C	HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression	1,928	0.099
0.005	0.211	0.005	56.9%	304	13.3%	264	6.9%	58
18.8%	80	62.3%	114	56.5%	62	57.9%	38	50.0%	90
	61.9%	42	15.2%	112	11.5%	78	12.2%	74
6.9%	58	18.8%	80
rs914700	AB_ASSAYS_ON_DEMAND	10	65.5914	44751709
forward	MIT
GCTGCCGAGAACAGGTCCGTCCTCAGCCCATCACACCATTCAGCGGACAAGAGGAGTCAGTCCCTCTCTGTTCCC
TGCTGGTCCCGCCACATATCTGCAG[A/
G]GTCTCACCTGTGGCCCCTGGTCCCCAGTACTCTCATTTGTAAAGTGGGGTGTGGGGCTACACAGGGGCTTATA
GGCTCAGATGCTCACAGCAGGCAGCGC	A/G	HG16 and CeleraR27 positions are

more than 1Mb discrepant based on linear regression extended_map
0.116 0.001 0.144 0.086 83.0% 194 36.5% 156 39.7% 58
71.3% 80 NA 0 82.8% 64 85.0% 40
82.2% 90 83.3% 42 NA 0 34.6% 78 38.5% 78
39.7% 58 71.3% 80
CV11659453 AB_ASSAYS_ON_DEMAND 10 65.7173 44931018
forward LGD
ACTGAGGGAGGTGGAGCTGGCTGGGAGGTCGGGCACTTTATCCACCTGCTCTTTGGTACTGGTCATCTGGAGGTG
GGTGCAGAGGTGGTCCAGCCATTCC[A/
T]GTTGTTCACGTCACCATAGGTGCACCGGGTACTTCTTGAGCATTGGGATGATCTGCTTCACCTCCAGTCACAC
AGCTTCCAGGCACTGGGAGTGGTCCTC A/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 1,219 0.143
0.013 0.320 0.007 32.3% 198 85.7% 154 94.8% 58
92.5% 80 NA 0 39.4% 66 30.0% 40 28.3% 92
42.9% 42 NA 0 83.3% 78 88.2% 76
94.8% 58 92.5% 80
rs716709 TSCAF 10 67.8835 48015656 reverse MIT
GCTGTTCTGGTTTCTGTCACCATGGTGGGCAGCTGCTAAGATGGCCTTAGTGATCCTTGTCTTGGCGTTCATACC
CTGGTGCAATACCCTCCACCAGAGT[G/
T]TGTGCAGTGCCAAGTAACTTGCTATCCCTTCTGAGGTTAGGTTATAAAGACACTGTGACTTCTGTCTTTCTCA
TCATTTCTTTCACTCTCTTCTGGAGCT G/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.097 0.053 0.343 0.030 22.2% 302 65.5% 264
89.3% 56 45.0% 80 24.1% 108 21.9% 64
10.0% 40 25.6% 90 25.0% 40 63.4% 112 65.4% 78
68.9% 74 89.3% 56 45.0% 80
rs1917805 TSCAF 10 69.3432 50150586 forward MIT
CAGATGGGGAGACACGCTGGAAAAAACTAAAGCATCCAAGGGGGCTAAGAAGTGCTGGTATGCGGTTTTAGACAA
GGCCATCCTGGAAGCCTTCATTAAC[A/
G]AGGACGGATGGCAGGGAGGTGAGGGAAAGAGACAGCAGATGGGTTCCCTTCCAGGCAGAGGAAGGGCCCAGGC
AAAGGACCAGAGGTGGACAGTGGGGTA A/G 863 0.245 0.163
0.030 0.049 1.0% 302 53.1% 260 8.9% 56 27.0% 74
0.0% 108 3.2% 62 0.0% 40 1.1% 92
2.5% 40 54.5% 112 53.9% 76 50.0% 72 8.9% 56
27.0% 74
rs3729496 AB_ASSAYS_ON_DEMAND 10 69.355 50165794
forward LGD
CACGCCCCACACCAGCCTCAGAGCTCTGAGGTGCCTGGGCTGAGCTTCCCTTCAGACCAGAATCCCGCCCCGTTG
AGGCTTTGAGAAAGGAGTAGGAGCC[G/
T]AGCATTCCGGCAGAGGAAGAAAAACGGCCCATCTTTTAGAGTCCGACCTCTGGAAATGTGTGTATGATGTGAT
GTGTGTGTTCATTAGAGAACTTGTCCT G/T extended_map 0.287
0.270 0.012 0.113 3.1% 192 67.3% 156 8.6% 58
27.5% 80 NA 0 4.8% 62 5.3% 38 1.1% 92
4.8% 42 NA 0 70.5% 78 64.1% 78
8.6% 58 27.5% 80

CV461878 AB_ASSAYS_ON_DEMAND 10 70.07 51993796
forward LGD
TCAAAAAACTGGTAGAAGGTCGGTTGTGAAGGGCAAGAGGGAAAATGATGGGGAAATTGACTGGAGTAGGTAGCC
AAGTCAGACGATTCATAAAGGGCCA[C/
T]CACTAGATTCCCAGCATTATCCAGGGCCAATGGGAAGGAAGTCACGGAAGCATCTGAAGAAGGGGAGCCACTT
GGACTATTTGTGTAGATTCTGGGTGTA C/T 185 0.291 0.023
0.275 0.015 84.7% 196 10.9% 156 24.1% 58 21.2% 80
NA 0 83.3% 66 87.5% 40 84.4% 90
81.0% 42 NA 0 12.8% 78 9.0% 78 24.1% 58
21.2% 80
rs7917364 AB_ASSAYS_ON_DEMAND 10 70.8108 52958104
forward LGD
AAAACAATAACCTTTCAAAATACTAAATAACTATATGCTATTTCATGGGATTTGGCATTTTATATCTGTGCTCTG
CAGGCAGGCATCATATATATTTATT[A/
G]CCAAATGTGTGGTCTGGGCATTGTTAAAGTCTCAAGGAAAAGGCTGATTTGGGAGAGAAGCAGCCTCTACTGT
ACTAAACACTTTTCCACAGCTGGTTAT A/G 1,706 0.129 0.011
0.284 0.065 71.2% 198 20.1% 154 10.3% 58 1.3% 80
NA 0 71.2% 66 80.0% 40 67.4% 92
69.4% 36 NA 0 19.7% 76 20.5% 78 10.3% 58
1.3% 80
rs7070276 AB_ASSAYS_ON_DEMAND 10 71.1747 53327987
forward LGD
TTGATCTCCTCTCTTCTCTATCTATCCTTTCATCCTTGGTGATCTTCAGGTAGTCTCACAGCTTTCGATACGCTC
TACATGCTGACAAATTCCAGATTTA[C/
T]GTTTCCAGCCTGGATTTATCTTTTCAACTTCAGACATCTAGCAACCTATTTGAAAAATCCACTTGGACAAATC
ATACACATCACCCTAAAATATCAAAAC C/T 1,516 0.152 0.008
0.319 0.022 61.1% 198 7.7% 156 1.7% 58 0.0% 80
NA 0 54.5% 66 57.5% 40 67.4% 92
35.7% 42 NA 0 7.7% 78 7.7% 78 1.7% 58
0.0% 80
rs930506 TSCAF 10 72.1015 53881154 forward MIT
CAGAGGGTGTCATATCTGCCCATGTGATAGAGACATGCTTATCTGTGACATGGCCTTGAACACAGGGTGGCTGCA
GTGAAAGGCAGCTCAGTAGTTAGGA[C/
T]AGCAAAGACCTGCTCTTTTGCCACAGAAATCAGAACACATGTGGCTTTCAGACTCTCCTCAGACATTCCTTAC
TGCCATTCTTCCTTCTGCCCCTTCACT C/T 1,930 0.087 0.045
0.308 0.002 36.8% 302 78.9% 256 96.6% 58 83.8% 80
39.4% 104 36.4% 66 52.5% 40 27.2% 92
45.2% 42 82.7% 110 71.6% 74 80.6% 72 96.6% 58
83.8% 80
rs1911414 AB_ASSAYS_ON_DEMAND 10 73.1324 55101819
reverse MIT
TTCCCCTGAGAATAAAATAGAGAATAAAATTTTTAAGAACATAATGAGCTCATTGGAAACTCATGCATGGAAACA
TTGCAGTGTTGGGCTCCTTCCTTTC[G/
T]AACCTTCAGAAGTTACAATTTAGGGGTGCTAAAGGATTTCCACACCCTTAGTTACCACATCCACTTATTAAGT
TAATTGGCACTCTTGGAAAGGGCACGA G/T 488 0.256 0.001
0.396 0.160 87.4% 198 18.8% 154 15.5% 58 65.0% 80

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        NA      0       87.9%   66      87.5%   40      87.0%   92
83.3%   42      NA      0       17.9%   78      19.7%   76      15.5%   58
        65.0%   80
rs733341        TSCAF   10      76.1522 60207990        reverse MIT
TTCAATATTTCTAAATATAAAAGGAAAAATATAAATGCAGGAGGAATTAATTATATTAATGATTCGAGCTGGAAT
TAAAGCTAAGAATTACTAATCTTTG[A/
G]GGGACAGCCTGGGTTCTTAATCTGCTAGAAAAAAACATAGTTAATATGCACTAGATGAGAATCACATTTTAGA
GGAAGAACTTCACAAAAACTTAATTCG     A/G             1,545   0.095   0.022
0.059   0.009   58.2%   306     15.2%   264     29.3%   58      23.7%   80
        60.9%   110     54.5%   66      65.8%   38      54.3%   92
69.0%   42      12.7%   110     16.7%   78      17.1%   76      29.3%   58
        23.7%   80
rs1053265       APPLERA_RESEQUENCING    10      78.0108 60897377
reverse MIT
TGCAGAGGCCTTCACCACGGAGAAGCAACAGTCCTGACAAATTCAAACGGCCCACGCCGCCTCCATCTCCCAACA
CACAGACCCCAGTCCAGCCACCTCC[A/
G]CCTCCACCTCCGCCACCCATGCAGCCCACGGTCCCCTCAGCAGCCACCTCGCAGCCTACTCCTTCGCAACATT
CGGCGCACCCCTCCTCCCAGCCTTAAT     A/G             1,358   0.103   0.001
0.185   0.009   67.3%   196     21.4%   154     17.2%   58      31.2%   80
        NA      0       65.6%   64      62.5%   40      70.7%   92
54.8%   42      NA      0       21.1%   76      21.8%   78      17.2%   58
        31.2%   80
CV483365        AB_ASSAYS_ON_DEMAND     10      78.4664 61333708
forward LGD
TTCAGGCTAGTTTCAACTAATATAGAAACCCAGGGTCTTCTTCACTATTTCTAATGTTCTTGTCAACATATCTAT
TTTAGAACTCAAGGAGGAAGTACTG[C/
T]TTTAGAATTTCTTTTTCAGAGAGACTATTCTATGACTTTGAAATATTTAATATTTTATTCAAGGATTTATTTT
TAACTTTGGACAATCACATCCCTTGAA     C/T             1,045   0.095   0.002
0.171   0.003   81.8%   192     39.9%   148     33.9%   56      33.3%   78
        NA      0       84.8%   66      61.1%   36      87.8%   90
97.6%   42      NA      0       35.1%   74      44.6%   74      33.9%   56
        33.3%   78
rs7898869       AB_ASSAYS_ON_DEMAND     10      79.75   62550211
forward LGD
GTACCAAGACTTTACAGGAACTTCCAGGGTAGTGGGGAATATACACATGGGGAGAATAAACCTTGATGTAAATGT
GAATTTTTCCACCGTTGGAAAAAAA[C/
G]TTAAGGTATTCAGATTTGTCCTGATGCTGTATGCATAATGTCACTGCCATGAGAAGAAATGCATGAAATTTAA
AAGTAGGAATATATTTATACTGACTTA     C/G             extended_map    0.131
0.002   0.217   0.018   85.9%   198     37.7%   154     32.8%   58
53.8%   78      NA      0       92.4%   66      77.5%   40      84.8%   92
        81.0%   42      NA      0       30.8%   78      44.7%   76
32.8%   58      53.8%   78
rs736883        TSCAF   10      81.5477 65115605        forward MIT
CTATCTTGGCACAATCCATCAGATGACATTGTCTTGGGACAAAGGTTTGTCCATGGTGTTGATGGGCAGTTAGTG
CCATAACCTCTTTCCTTTCCTCAGC[A/
G]TCTTTAATAAATAACCCTTAACTTTATGGTCTAAGTGTTTCCTGCCTTTTGGGTGTATTAGGAAGGGTAGAGG
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TTAACTGTCTCATCCTATCTTTATGTG A/G 1,633 0.12 0.011
0.138 0.001 42.8% 304 1.5% 260 5.2% 58 0.0% 80
47.3% 110 40.9% 66 38.9% 36 40.2% 92
35.7% 42 1.9% 106 1.3% 78 1.3% 76 5.2% 58
0.0% 80
CV378158 AB_ASSAYS_ON_DEMAND 10 82.8968 67380358
forward LGD
GAAAGTTATATTTAATTCCAGGAAAAGCCATAAATCTGTTCATTCCTGTAGGTGAAATAGAATCAGACCCAAAGA
TTGGATTGTTATATAAGCTGATATT[G/
T]TATATTGGACTGTGTCCCAATTCTAGAAGCCATGTAAATGATTCATGTAAAAACAATTAATGTAAACTGGGCC
ATGTAAATTTATCTTATTTTTCTTTGT G/T 2,037 0.045 0.000
0.065 0.000 28.8% 198 59.0% 156 58.9% 56 59.0% 78
NA 0 27.3% 66 22.5% 40 32.6% 92
31.0% 42 NA 0 53.8% 78 64.1% 78 58.9% 56
59.0% 78
rs1904633 AB_ASSAYS_ON_DEMAND 10 83.7505 68284244
forward MIT
CCCAACTGCACTTGAGCCTGGGCAACAGATCAAGACCCTGTCTATCTCCATAAAACAACAACAACAAAAAAACAT
AACAACCTGCATGGGCTCTTTACAC[A/
G]CCTTCAAACATAGCTCATGATCCCTGTAATATCACTGTTATTGGATACTAACTTCTAATGGCCTTTCATTATT
CACTAACTTGATCCTGAGCAATCTGCC A/G extended_map 0.14
0.012 0.298 0.020 17.7% 198 69.2% 156 81.0% 58
83.8% 80 NA 0 13.6% 66 15.0% 40 21.7% 92
14.3% 42 NA 0 69.2% 78 69.2% 78
81.0% 58 83.8% 80
rs1904648 TSCAF 10 83.7635 68301558 reverse MIT
GTACCTTTTCTTTTCTTCTTTGTCGATGAATTGTTTTCTGGGAGAACTCCACAGGAATAACAATTGACATAAACC
TCGGAAATGACAGGAACTATTCAAA[C/
T]GTTTGTTTAAATTTTGCAGATTTGTTGTCATTTAGGCTTGGAATCATAAGCCTCATGGACATAGAAGGTGGGA
CACACATGATGTTACTGAGAAATTAAG C/T 354 0.216 0.007
0.225 0.004 11.4% 334 72.9% 310 64.3% 56 66.2% 80
7.4% 136 9.1% 66 12.5% 40 18.5% 92
15.0% 40 77.3% 154 67.9% 78 69.2% 78 64.3% 56
66.2% 80
CV286612 AB_ASSAYS_ON_DEMAND 10 83.8808 68458084
forward LGD
GATTAAAGTCACTTCTTAGGTGCCAAAAATGAAAGGAGTATGATGATGGGATAAGCTTTATGATGCTTGAGGTCA
GGTACCATGATTTTTAAAAATAGTT[G/
T]CAGCATCAAGGACAGTGCACAGAACTCAATAAATATTTGTTAAATAAGTAGATGAATGTGTGAGTGAACGGAT
GAATGTAACGATTTCCACAGGAATTTA G/T extended_map 0.155
0.001 0.268 0.006 73.7% 194 17.9% 156 13.8% 58
25.0% 80 NA 0 75.8% 66 80.6% 36 69.6% 92
50.0% 42 NA 0 15.4% 78 20.5% 78
13.8% 58 25.0% 80
rs7895797 AB_ASSAYS_ON_DEMAND 10 84.1849 68863616
forward LGD

GATAATTATTTCCATCACTTTTCACGATACCTTTAATTTACTGACTAAATCTTAATGAAGGTTTTATTGCCAGTA
ACTTCATAATTTTCTTTGTCCAATT[A/
T]GTACTAAGTCCTCTCACATATGGTATCCAAAACATATACCTAGAGTTATTCTCCAATTCATATAAAATTACAG
AAAAGAAATCCTAAATAGTGGCAAAGC A/T extended_map 0.185
0.000 0.247 0.010 88.8% 196 32.1% 156 32.8% 58
43.8% 80 NA 0 83.3% 66 92.5% 40 91.1% 90
92.5% 40 NA 0 29.5% 78 34.6% 78
32.8% 58 43.8% 80
CV25611602 APPLERA_RESEQUENCING 10 84.2966 69012617
forward LGD
CATGTCTCTGAAGTATTTCTTCTTTTGCCTCAAAATCCTTTTTTACCCCTTTAAAGTATATATGGTACAGAAAGA
TTCAGGAAGAAAATAGTTAGCATTT[G/
T]GGAATTTTGGTAAAATACACGAGAACCTTTCAATACCTTATATAGAAAACAGCCCTATAAAGGCTCTTCAAAT
TATGAAATTGGCTTCTTAGTATCTAAG G/T 590 0.215 0.034
0.133 0.155 6.1% 196 63.5% 148 41.4% 58 17.9% 78
NA 0 7.8% 64 5.0% 40 5.4% 92
2.4% 42 NA 0 57.9% 76 69.4% 72 41.4% 58
17.9% 78
rs659420 AB_ASSAYS_ON_DEMAND 10 84.3463 69078991
forward MIT_and_LGD
TCCAAACAGGTGCTCAATAAATATGAGACGAATGGATGGACAGATAAAACTTAAGAGATATTGCCTATAGTTCTT
ACTTCTAATGGCACTTTAAAAGGAT[C/
T]GGTCTATATCTGTTGCATTTTCAGTGAGATGTATTATAATGTATGCTTATTGTTAATTTTTCGTAAAAAGAAT
TGTTTATATAATTTTCATGTTTTCTGA C/T extended_map 0.201
0.022 0.142 0.162 6.1% 198 60.9% 156 43.1% 58
15.0% 80 NA 0 7.6% 66 5.0% 40 5.4% 92
2.4% 42 NA 0 57.7% 78 64.1% 78
43.1% 58 15.0% 80
rs534611 AB_ASSAYS_ON_DEMAND 10 84.4205 69177950
reverse MIT
ACAGATAAGAACTCCATTTTCTGTTGATGTGGAGGTAGGTATTAGAAAGCTTAATTATACTAGGATTGCAAGGTT
ATGTTTCTGCAGTTGGCTAAATTTT[G/
T]CACTGTGTATATTTGCTTTTTGGGCAGAGGAAAGATGTCTTATTTCTTGTTCCCATTGAAATTATTTAAAGCA
AAAAGTAGAAAAAATTGTGATTAATTT G/T extended_map 0.201
0.022 0.142 0.162 93.9% 198 39.1% 156 56.9% 58
85.0% 80 NA 0 92.4% 66 95.0% 40 94.6% 92
97.6% 42 NA 0 42.3% 78 35.9% 78
56.9% 58 85.0% 80
rs3816299 APPLERA_RESEQUENCING 10 84.5794 69389867
reverse MIT
GTTTATCCATAAATTCTATGTCTTCCTTTTTATCTCCTTTCATAATTCTACACCCTGCTGTGGCCTGGCCAACAT
AATGATTTAGGTGATCTAGAGTTTA[G/
T]TCAAACTGGATAATTGATTGTAATTGCTTAGAAATTTACCACAAAATCGCCTCTGTTTTCTTGGGGATTGTCT
CCTAACTTTTCACTTCTTTTGAGGGTC G/T 2,061 0.04 0.240
0.062 0.002 48.5% 196 20.3% 148 77.6% 58 25.0% 80
NA 0 56.1% 66 44.7% 38 44.6% 92

54.8%	42	NA	0	18.6%	70	21.8%	78	77.6%	58
	25.0%	80
rs2008553	TSCAF	10	85.0668	70205078	forward	MIT
TGCTGATCCCAAACCCTTTTGCCCTCAGATCCTCCTGTCCTTCCCTGGCCCTGCTCTGTATTGGCTGTGGGGTGG
GGGTGGCGGTGGAACTGACCCCTGG[C/
G]GTCTGCATTTCTCAGGCTCCCAGGGCTGTGGCTGACTTTGGCCAATGGGAGGCAAGGACGGGAGACTGAGAGC
TTGGGAGGAAGGGAGAGAGGTATGTTT	C/G	1,046	0.158	0.217
0.001	0.094	32.5%	308	88.0%	266	35.7%	56	56.2%	80
	26.3%	114	35.9%	64	42.1%	38	33.7%	92
35.7%	42	92.0%	112	84.6%	78	85.5%	76	35.7%	56
	56.2%	80
rs999705	TSCAF	10	87.2676	70985470	reverse	MIT
TTAAAGCCCCGTGGTTCAGGGCTCTGGGAAAATAACAAGCCCTTCCTCCCACAGCCTCGATATCTTGCTGGCTTC
ATCACCCACACCCCTGTTTTGGTCC[C/
T]TAAGGAAGCACATGTGAGGGGAGCCTCGCTGGTTTTCTCAAGCTCCCAGCCACGGGGTGGAGGGTGCTAGTGA
ACACACAGGACCCAGCACTGCACACAG	C/T	1,966	0.065	0.000
0.105	0.060	37.0%	308	6.1%	262	5.2%	58	26.9%	78
	35.7%	112	26.6%	64	42.5%	40	43.5%	92
40.5%	42	6.4%	110	6.6%	76	5.3%	76	5.2%	58
	26.9%	78
rs946979	AB_ASSAYS_ON_DEMAND	10	91.2654	72422373
forward	MIT
GAGCTTGTTAAATAGATCCATTCTGGATCCCCATTCTGCACCCCCTGAGTGATGGGTTGTATTAATCCAGGTATT
TATTGAACACAAATTATGTGCCCAC[G/
T]ATGAGGGAAGAGCAAACAAAGCAGATACAGCACCACCCTCAGGGATTGGGGAGTGGCAGCAACCCTCCTGGGG
AGAGGTCCCCAGAATCTGGATGTGTAC	G/T	962	0.261	0.046
0.565	0.003	97.7%	308	39.8%	246	16.1%	56	32.9%	76
	99.1%	110	100.0%	66	97.5%	40	94.6%	92
100.0%	42	39.8%	108	35.3%	68	44.3%	70	16.1%	56
	32.9%	76
rs2394931	AB_ASSAYS_ON_DEMAND	10	93.5665	74010668
forward	LGD
GCTCCTTTCATGACTTAAAACAATTTACTTTATAAGTTTGTATTTATTTAGCAACTTCTCAGGAACTCATTAAAG
AAAGTGAAATTCACCAATACAAATA[A/
G]GTAGGTGTACCCACGACTCAAAAGGAACTTCATTTTCCCATTGTTTTTCCCTGAAGAGAAGGTAATTGGCAAG
CAATTAGGTACCTTCCACTCAGCAAAG	A/G	57	0.379	0.000
0.556	0.047	13.9%	194	96.5%	144	96.6%	58	80.6%	72
	NA	0	6.5%	62	12.5%	40	19.6%	92
7.5%	40	NA	0	95.8%	72	97.2%	72	96.6%	58
	80.6%	72
rs12644	AB_ASSAYS_ON_DEMAND	10	93.8561	74541654	reverse	MIT

AATATTTAATATATAGACCTATGATGTACAGGTACGACATGTATAGGTTACCTAGATGTTATGAGAAATTTTAGT
TTATTGTGAGTACTCAAGTTGCTTA[A/
G]AGAGCCACCAGGGTGATTTGCTGCTGGCTTTCTATCATTTTTATGTTTTAATGCAAAGGAAATTTTAAAATGT
TCTGGAAGTGTTTTTGATTAAGCAATG	A/G	extended_map	0.178

0.005 0.337 0.040 27.8% 198 87.2% 156 93.1% 58
67.5% 80 NA 0 25.8% 66 12.5% 40 35.9% 92
16.7% 42 NA 0 87.2% 78 87.2% 78
93.1% 58 67.5% 80
rs767809 AB_ASSAYS_ON_DEMAND 10 93.9884 75209668
forward MIT
TCCTGCTGGTGGCTAAGAGGGAGGTGGAGAATTCCGAGGATCCCAAGTTCCGTGAGGCTGTGAAAGCTGCCTCTG
ATGAATTGAGCAAAACCATCTCCCC[A/
G]ATGGTGATGGATGCAAAAGCTGTGGCTGGAAACATTTCCGACCCTGGTAAGCAATGCATGGCACTATGTCTCA
CCTCCACTGAGAGGTTAACTCAGGAAA A/G extended_map 0.166
0.041 0.078 0.063 93.5% 184 44.2% 156 68.5% 54
73.8% 80 NA 0 98.4% 64 93.3% 30 90.0% 90
95.0% 40 NA 0 41.0% 78 47.4% 78
68.5% 54 73.8% 80
rs6480741 AB_ASSAYS_ON_DEMAND 10 94.0211 75687107
forward LGD
TAATTTTTTTCAGTTATGTTTATTGAGGTATAATTTATATACTGTTTATCTAATTTTTATTATAAACCTATTGGA
TAGAGGCATGAGTGTCTTTATAGCT[A/
G]TGCATTGCCCCATAGAGTTTTTGGCACTCAATAAAATGTTAAATAATATTTTTATTCAGCATTCTGTAGACGG
GAAGCATATGGTAACAAATGTCAGAGC A/G extended_map 0.106
0.120 0.004 0.129 34.7% 196 81.2% 154 41.4% 58
40.0% 80 NA 0 33.3% 66 28.9% 38 38.0% 92
14.3% 42 NA 0 83.3% 78 78.9% 76
41.4% 58 40.0% 80
rs7908565 AB_ASSAYS_ON_DEMAND 10 94.2767 76096038
forward LGD
GAATGCTGTCCACCAGGATGTGAGCAGGCAAAGTAGTGCTGAGGGTGTGGTTTTTTTCTTTTCTCTTTCCTGTAC
ACCTAGCATTGCCCCTACTGGAGTG[A/
G]GTTAAGAAGTGCAGTGAAAGATTTGAATAAAGTTGAAGAGACTGGTGTTATTCCCTCAGAGAAGGGGAAACTA
GGGGAAGAATTTTATAGCACTCAAAGA A/G 613 0.309 0.064
0.206 0.152 84.8% 198 9.0% 156 32.8% 58 50.0% 80
NA 0 86.4% 66 80.0% 40 85.9% 92
81.0% 42 NA 0 7.7% 78 10.3% 78 32.8% 58
50.0% 80
rs946714 AB_ASSAYS_ON_DEMAND 10 99.3003 80242067
forward MIT
ACCAAGCTTCAGGTTCCTGCTGGGTGCAGACCCAGAATGGTCCTTGCCCTCTGGGAGCTCTCCCGGTAACTGGGA
CCACATGATTTGCACCTGGAAGGGC[A/
T]AGGGGTGAGCAGGGGAAGGCTGTACTAGACCCATCTCTCTCCGAGAGGAGACAGGAGAGCCCAGAGGTCGTGA
GGGCTGGACCCTGGGGGAGGACCTCTG A/T 328 0.238 0.001
0.402 0.011 29.8% 198 96.2% 156 98.3% 58 90.0% 80
NA 0 34.8% 66 27.5% 40 27.2% 92
14.3% 42 NA 0 93.6% 78 98.7% 78 98.3% 58
90.0% 80
rs1250991 TSCAF 10 99.8852 80719254 forward MIT
GCCTCTAGGGTGACCTAGAGCCGCCTTCAGATGTGACCCGAGTAACTTTCAACTGATGAACAAATCTGCACCCTA

CTTCAGATTTCAGTGGGCATTCACA[C/
T]CACCCCCCACACCACTGGCTCTGCTTTCTCCTTTCATTAATCCATTCACCCAGATATTTCATTAAAATTATCA
CGTGCCAGGTCTTAGGATATGTCGTGG C/T maps to two positions on chromosome
10 in HG16 within 319,946bp of each other (HG16 positions 80,719,254 and
81,039,200); the first is arbitrarily reported here 600 0.209
0.030 0.134 0.080 94.0% 302 38.3% 266 58.9% 56
71.8% 78 94.5% 110 92.4% 66 91.7% 36 95.6% 90
95.2% 42 39.3% 112 35.5% 76 39.7% 78
58.9% 56 71.8% 78
rs765833 AB_ASSAYS_ON_DEMAND 10 103.1687 83545325
reverse MIT
CCAGTTGGAACTGTCTGTAGAGTAACTGGAATGATGGAGACAAATATTACATCATGGCAGTGGGGATGCTGTAGG
TACACTGGAACAGATTTTGATCGTA[C/
G]TGCTTCAAAACAAAGTAAGTTAAACTGGCATCCATTATTTCAGCAAATGAAAAAAAGGGAAGAAGAAGAAGAA
ACAGGCAGAAACATGGGTACGGAGGCA C/G 1,604 0.119 0.390
0.059 0.218 21.2% 306 69.2% 260 1.8% 56 15.4% 78
24.1% 112 21.9% 64 10.5% 38 21.7% 92
15.0% 40 74.1% 112 62.5% 72 68.4% 76 1.8% 56
15.4% 78
rs1474 AB_ASSAYS_ON_DEMAND 10 103.2871 83639219
reverse MIT
TGTTGGGGGAATGGGGAATGATCAAGACTGCACAAACTTTAGTAAGATGGATGAGATCAGTGATGCCATAGCTGG
AAAAAACAGAAAGTCTACATTTCTA[C/
G]TTCCCTGCTCTCCTTTGTTCAGACTAGCATCTGAGGAAACTTGTGAAGAAGTCACCGTGAAATAAAAGTCTTT
GTCAAAAATAAAAACAAATACAAACCT C/G extended_map 0.17
0.043 0.079 0.040 7.1% 198 57.7% 156 32.8% 58
33.8% 80 NA 0 1.5% 66 2.5% 40 13.0% 92
4.8% 42 NA 0 60.3% 78 55.1% 78
32.8% 58 33.8% 80
rs736141 AB_ASSAYS_ON_DEMAND 10 105.8298 85681067
forward MIT
TGGGACCAGAATCCAGTCCCCTGGCTCCCAGCTGGCTGCTGGCATAGGTGCCGCTTCTAGGCTGTCCTCCGCGAT
GCCGGTCCCAAGCCCTGTCTGGAGG[C/
T]GCAAAGTTCACATTTACTGGAGGCTCAGGCAGCCGGGAGACAAGGCTGCCACCATGATCTCCTCATTTTTCTG
CGTTGACTTTAAACCATTGTCTCTGGT C/T 642 0.15 0.015
0.116 0.003 12.0% 184 62.8% 156 48.3% 58 68.8% 80
NA 0 6.2% 64 16.7% 30 14.4% 90
12.5% 40 NA 0 60.3% 78 65.4% 78 48.3% 58
68.8% 80
rs6586025 AB_ASSAYS_ON_DEMAND 10 107.2975 88138734
forward LGD
CATGTTGAAAATGACTCCTCCCTGACATGTTGCACTGAGATTTTCTAGAAATTGGACTCATATTCTTTACAGAGG
CAGCTTGGGATGATAGAATGAATGG[A/
T]TTTGGAGATGTATTCCCACTTACTAGCTCTGTCTGAGCCTCAGTGACCTCAAGTGTAAAGAGGGAATAATGTG
AAGACCGATTCAGATGACAGATGCTAT A/T 1,065 0.137 0.026
0.083 0.047 82.1% 196 31.2% 154 50.0% 58 56.8% 74

NA 0 84.4% 64 90.0% 40 77.2% 92
85.7% 42 NA 0 23.7% 76 38.5% 78 50.0% 58
56.8% 74
rs7069120 AB_ASSAYS_ON_DEMAND 10 108.1003 89766300
forward LGD
TATAACCAATTTTCCTTAATATTAGGAAATATATTTAAAAGATTTTTTATATTCTCTCAAAAAGATAGTTTCTAC
TCACCACATATTCTAGGTGCTCCCT[A/
G]AGTACTCCCAGTCTACTTGGCAGGAAAGTTGCAGCCATGTAACTATTAGGTTGGTGCAAAAGTAACTGTGGTT
TTACCATTACTTTTAATACTTTTTTGG A/G 1,309 0.121 0.015
0.100 0.067 34.7% 196 84.0% 156 72.4% 58 56.2% 80
NA 0 31.8% 66 40.0% 40 34.4% 90
40.5% 42 NA 0 82.1% 78 85.9% 78 72.4% 58
56.2% 80
rs2676824 AB_ASSAYS_ON_DEMAND 10 111.7523 93395169
forward LGD
ATAAGACTATTATATTACATGGTAAGTTTAATAACCTCTACAAAGAGTTAAATAACAGAAGACCAGTATGTGAGA
GATGTCAGACAGCAGCATTAAAAGA[C/
T]AAACTAAGCTGAAAGATCAGGAAGATTAGGTGATGTGGTTAAAAAAACTAGTATTCCCTCACTTCTTTTTGAT
TCATATTTAGTATCTTTGATATGTACT C/T extended_map 0.184
0.001 0.230 0.026 11.6% 198 68.4% 152 65.5% 58
85.0% 80 NA 0 9.1% 66 10.0% 40 14.1% 92
9.5% 42 NA 0 68.4% 76 68.4% 76
65.5% 58 85.0% 80
rs833368 AB_ASSAYS_ON_DEMAND 10 111.767 93446503
reverse MIT
AACTAGGACTTCTCCAAGACCATACTTACCAGACATTCTTCCTAATGTAATCTTTCCCTGGTGCAGCTATCCTAC
TGAATATGTGGACATATCATTTGAC[A/
G]TAAGTATCTCTGTCTGGTAGCAGAATTGATACTCTGGTATTCTCACTAATCTATAACCCAAGTCTGCTCTGAG
AGACTGATCGAGTTCAGGGCCTTGAAA A/G 682 0.189 0.001
0.230 0.024 88.4% 198 30.8% 156 34.5% 58 15.0% 80
NA 0 92.4% 66 90.0% 40 84.8% 92
90.5% 42 NA 0 30.8% 78 30.8% 78 34.5% 58
15.0% 80
CV27835382 APPLERA_RESEQUENCING 10 112.1957 94017082
forward LGD
ACACACACACACACACACACAAAGACTATTCTGGTCTCTGCCTCCGGGATGGCGGCTCGCTTTGGACCTCTCTTC
TGTGCTTCTACTGCCCTCTCTTACA[A/
T]TTCTCTAATAATTATAATCATGGCGAGTGCTTACCATATATTCCAATCTATTTACTTCCACAAGCTCATTAAT
TCTCACCCTAACCCTCTGAGATGGTTA A/T 1,474 0.146 0.002
0.211 0.048 54.1% 196 3.9% 152 5.2% 58 20.5% 78
NA 0 56.1% 66 57.9% 38 51.1% 92
33.3% 42 NA 0 3.9% 76 3.9% 76 5.2% 58
20.5% 78
rs2293277 AB_ASSAYS_ON_DEMAND 10 113.4633 94944093
forward MIT
AGCTGTAATGGTCTTGTTCTGGGCCTTTTCCAGATGCAGGCATGTACTTTAGACTTTGAAAATGAAAAACTCGAC

CGTCAACATGTGCAGCATCAATTGC[A/
T]TGTAATTCTTAAGGAGCTCCGAAAAGCAAGAAATCAAATAACACAGTTGGAATCCTTGGTGAGTCTGGAATGA
TTAAACTAAAATTTGTCTTCGTCTTCC A/T 1,000 0.162 0.026
0.394 0.023 22.2% 198 78.8% 156 93.1% 58 62.5% 80
NA 0 19.7% 66 12.5% 40 28.3% 92
23.8% 42 NA 0 75.6% 78 82.1% 78 93.1% 58
62.5% 80
rs1538598 TSCAF 10 114.0589 95213340 forward MIT

TTTAGTTTTTTATTTTTATTGTGGAAAAAAAAAACACCTCTAAGAAAAGTTTATAACGTGTATATATATGGTGCT
GGTTAAAAATAGAAAATTACACTAC[C/
T]TGGTGACCTTCCCCAGTCATACAGCATTAGCACTGTGCTATGTCTATATTTGTGTACTAGGGACACATTTCCC
TTTCCTTGACATTATCAGGACAATTTT C/T 294 0.249 NA NA
NA 74.6% 114 5.5% 110 NA 0 NA 0
74.6% 114 NA 0 NA 0 NA 0 NA
0 5.5% 110 NA 0 NA 0 NA 0
NA 0
rs912738 AB_ASSAYS_ON_DEMAND 10 114.8323 95544551
forward MIT
CTATTCTCTACCCTTACTCAACTCCTCCATCCTGTCTGGGAGACTCAACAATTCCTCTTCCAGGCTCCATGTCCT
CCTGCCCTGCCTAAACTTGGTGACA[C/
G]CTCTAGCTCCTGGGAATCTGGTGATCTCTATTCACCCACCACTACCTATTTCATTTGCTCTGCCTGAGGTGTG
TTCACTAACAGGTTGTTGAATATGGCT C/G 1,639 0.163 0.002
0.235 0.060 54.8% 314 2.7% 298 3.7% 54 20.0% 80
59.8% 132 48.3% 60 58.8% 34 50.0% 88
44.7% 38 3.2% 154 1.4% 74 2.9% 70 3.7% 54
20.0% 80
rs1462134 TSCAF 10 119.355 99956170 reverse MIT
AATTCTCACAACAACCCTATGAGTTTAGGTATTATGATCCCCATTTGTGGATGAGGAAAATTGACACACAGAGAG
ATAAAGTAACTTGCTAAGGGTCACA[C/
G]AGTTGGTAAGCAAACAGTAGAGGGGAAATACAGAGTCACCAGGGGGCTTCCTGTGTTAAACTTTCACCTTAGA
TATCCAGAAAAATAGCTACTGTCTTTC C/G 870 0.178 0.046
0.448 0.014 4.9% 306 53.8% 262 78.6% 56 39.7% 78
4.4% 114 4.8% 62 2.6% 38 6.5% 92
4.8% 42 50.9% 112 48.6% 74 63.2% 76 78.6% 56
39.7% 78
rs1159006 TSCAF 10 119.4519 100070870 forward MIT

ATCACTTAAGATCATACCACAAGTCGTCGAGCTGTTCCACTAAAAACCAAAGCCAAGAAAGGCTGTGTAGAAATA
ACCTTTCTGGGAACTATCACAAAGG[C/
T]AATGAAGTTGAAACTTTTGTATTAATACATCATCAAAAGGTCTGTATCACCCAATGCCAGCAATTCATTCCTA
CCTATAGATTGGCAGGTCATATCAAGC C/T extended_map 0.128
0.205 0.000 0.087 72.5% 258 21.7% 212 75.0% 44
55.6% 54 73.4% 94 70.4% 54 70.6% 34 73.7% 76
57.9% 38 20.8% 96 20.7% 58 24.1% 58
75.0% 44 55.6% 54

rs1953638 TSCAF 10 119.5029 100131272 forward MIT

TAAGTCTGGCCTTTACCCTTAACAACAAGGTACAAGTCCAGGTCCTATTTACCTTTGTATGATTAGCACCCAACA
TAATATTGTAAAATATAGCCAGCTC[A/
G]TCTTCCACGTATGTTTGTTGAATTTATTCCATCTTTAAACACACACAAGGGATTCTCAGGATCAGATTTGCAT
TTCAGGATCTGGCTAAACACTGAAATG A/G 167 0.299 NA NA
NA 86.3% 124 11.4% 114 NA 0 NA 0
86.3% 124 NA 0 NA 0 NA 0 NA
0 11.4% 114 NA 0 NA 0 NA 0
NA 0
rs1539396 AB_ASSAYS_ON_DEMAND 10 119.8257 100488622
reverse MIT
TTACATTATAAGGTAGTGTTTTATTTTATAAGAGGATTAAACTATGCATAGTGTTCTGTATCTTGCTTTCTTTAT
TTGATGATTACTCCCTCACACAAAT[C/
G]TTACTTCTTTGTTAGATTTCAGATTGGCTAGGAGGTACATGGCAGTTTATATATTTAAATAAAATACATAAAG
TACAAGTTCCTCCTACCCCAACTCTTG C/G extended_map 0.115
0.011 0.097 0.000 74.5% 196 26.3% 156 37.9% 58
27.5% 80 NA 0 81.8% 66 75.0% 40 68.9% 90
81.0% 42 NA 0 30.8% 78 21.8% 78
37.9% 58 27.5% 80
rs4284343 AB_ASSAYS_ON_DEMAND 10 120.09 100766710
forward LGD
TTCAAAACAGTGGGAAGTCAGACCTCCAGATAATGGGTTGTTACTCTGCTATTTTTACAGTGTTGCTTAGCAAGC
CAAACCACCAACTGGCTTAGATTCT[A/
G]GTGACGAACAACTATTTTTTCATGCCCTAGTGATGTTGGTTACCATGGTGCTCTGGATGACACAGTTGGCTTT
TTTATAATTGCCTTTTAGTGGCTCAAG A/G 1,365 0.176 0.022
0.399 0.023 15.2% 198 72.4% 152 87.5% 56 55.0% 80
NA 0 7.6% 66 7.5% 40 23.9% 92
14.3% 42 NA 0 67.1% 76 77.6% 76 87.5% 56
55.0% 80
rs6584349 AB_ASSAYS_ON_DEMAND 10 120.09 101607143
forward LGD
AAAGGGCCAAAATTTACAATATAGACTTTAAGAGCTATAGATCAGAAGAGGAAGAATCTGGGATGAGCCTTTAAA
AGCCTGGCAAGATTTAGACAGGAGA[A/
G]AAGGAATGGAGAGTGAGATGGCAGATAAAGAAGTGATGGCATGAACTAAGGAAAGAATGGGTAAAATAAATAT
GGAACAACATATGGAAATCAGTCTGAT A/G 1,209 0.18 0.004
0.227 0.174 67.2% 198 8.3% 156 12.5% 56 52.5% 80
NA 0 69.7% 66 70.0% 40 64.1% 92
50.0% 42 NA 0 6.4% 78 10.3% 78 12.5% 56
52.5% 80
rs822093 AB_ASSAYS_ON_DEMAND 10 124.7873 108382836
forward MIT
CTTAAATTCCGGGGCTGTAAGCTGCTGAGGAATGCTGAGTCCAAGTTCCACTCTACTAGCACAGCGTTTGATTTA
CTGAAGGCACAAGCATCAGTGAACA[C/
T]ATTCTTAACTTTTTAATTTCACAGCAAGCAAACTGGAACTCCCTGACCTTAGGTTTGTTCTGAGTTCAAGGAA
AAAAAAATTACAGTAACTTAAAAACAG C/T extended_map 0.188

```
0.244   0.004   0.196   64.1%   198     5.1%    156     56.9%   58
50.0%   80      NA      0       63.6%   66      57.5%   40      67.4%   92
        47.6%   42      NA      0       3.8%    78      6.4%    78
56.9%   58      50.0%   80
rs2015403       TSCAF   10      124.8323        108416199       reverse MIT

GAGATAAAAAAGATCCAAAAGAGTAATTTACTTTTACGCTCAGAATCAGATTCTAAATGTAGAAATTAATGAGAC
GTTTACATAGTTGTAAAAGGAAGCT[A/
G]CAAAAGGAAAATGCAAAAATGACTTTATACAACCTCAACTTCATCCTCCCTCTTCTTGTCTCTCCTCTTTCCT
TGTCTGTCTTTTTCTCTTTACTGTCTT     A/G             237     0.285   NA      NA
        NA      26.9%   130     98.7%   154     NA      0       NA      0
        26.9%   130     NA      0       NA      0       NA      0       NA
        0       98.7%   154     NA      0       NA      0       NA      0
        NA      0
rs4595478       AB_ASSAYS_ON_DEMAND     10      127.3525        111464732
        forward LGD
AGCTTTCTTATCAACTTAGTGGAGATAGATTATGTAAAACCTTTGCCAAGACTGGAAGGTGATTAATAGGCCAGC
TTACCTGAAACATGATTGAACAGAT[C/
T]GACACTGGCAGGATCACACAGCACAAATTTAGTTTGGCCAATTAATATATGTACCCAGTAATTTTTGATGATT
ATCATCCATAATTAGGAGTACTTAATT     C/T             extended_map    0.203
0.081   0.593   0.050   83.3%   198     21.2%   156     0.0%    58
46.3%   80      NA      0       87.9%   66      77.5%   40      82.6%   92
        88.1%   42      NA      0       16.7%   78      25.6%   78
0.0%    58      46.3%   80
rs2076974       TSCAF   10      127.3927        111484898       forward MIT

ATTTTAGCCTAGTGCTATAATTGAAGCAGTTGTCTTATTTCTTTGCAAATCAGATAATTTCTTTATAAAGAATCA
AATGCTTGCTCTGTGTTCTAACCAT[C/
T]CCACCATTTTATTCTCTCTCAAAGCTTGAGGACAACTTCGGGACATTTCTTTCATCTCACTATCCTAAAAATC
TTTGCCACTGGAACAATATTAAACTAC     C/T             420     0.26    0.059
0.635   0.073   86.2%   312     17.0%   264     0.0%    58      46.3%   80
        91.2%   114     87.9%   66      77.5%   40      82.6%   92
88.1%   42      12.5%   112     15.8%   76      25.0%   76      0.0%    58
        46.3%   80
rs928929        AB_ASSAYS_ON_DEMAND     10      127.6793        111707038
        forward LGD
TGTACCCACCCCAACTACCTCCAAATTTCAGAGAGGAGGGTGTATTTTCATCACTATAGCTCTCATTTTTTTTTA
GTGTTCCCAGTGTACCTTACTTTAG[C/
T]GGTACCTTACCAAGTACCATCCTTATCCTGAGCTGGCAACCTCCTTTTTGTAGTGTTATGGGGGCTTTTAGTT
AACATCTGTGGTACACTTGGCTAAAGC     C/T             967     0.204   0.089
0.592   0.003   4.0%    198     56.7%   150     88.9%   54      50.0%   80
        NA      0       3.0%    66      0.0%    40      6.5%    92
4.8%    42      NA      0       52.6%   76      60.8%   74      88.9%   54
        50.0%   80
rs638019        AB_ASSAYS_ON_DEMAND     10      128.63  112496416
forward MIT
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TGGCATCCTCAAGGTTGAGTTGATCCTAGTACCAAGTGCTGTCTTTTTGGTATTGGCCAGAAGCCCTTGCAGAGA
TAGAAAACACCTGGCTTAATTTTCC[A/
G]GGCTGGGGCAGGATGGGTTAGCACGTTAGAAAGAGATAAAGGCGATGGCAGGACTCATCGCTTGTTTTTGTGA
ATACAGCAAGACTGATCCAGCAGTCAA A/G extended_map 0.254
0.001 0.324 0.159 8.6% 198 74.4% 156 72.4% 58
27.5% 80 NA 0 7.6% 66 10.0% 40 8.7% 92
4.8% 42 NA 0 78.2% 78 70.5% 78
72.4% 58 27.5% 80
rs521674 TSCAF 10 128.63 112500177 forward MIT
CGGAAAAACTTGCCATTCGCCGCACACCCACTCCCCCCCGCCCCCACCGCTATTCTTATCAGAGAGAACATGGAA
AATATTCTACTCCCTCTTCCCCTTA[A/
T]TGAAGGATGCTGTGTGTACATCTGAATGGGGGTGGGATGCGGGGCGGGAGTGGAGTCTAGCTTTCGGTCCTCA
ACAAAAACATAATGATTCCCAGCAAGC A/T 1,161 0.185 0.002
0.227 0.152 85.0% 294 26.7% 266 30.4% 56 72.5% 80
88.2% 102 81.2% 64 85.0% 40 84.1% 88
83.3% 42 28.2% 110 21.8% 78 29.5% 78 30.4% 56
72.5% 80
rs568110 TSCAF 10 130.812 114814858 reverse MIT
GACTGAAAACGGAGCCCAAAGGGGAAAGTGGGCATGAGGGAGTCAGGGGCCCTAGCAGCAGGTGGCTTCAGGTCA
TTCCTCCAAGTTCATCTTCTGCTCC[A/
G]AGAATGTTGGATTATTGGGAGCTCTCGAGACATGTTTAGGGGAAGGGGGTGGAGAGTAGGAAGTCCTAGCCCC
ATCAGTACACAGGCAAATCACCTGACC A/G 1,366 0.135 0.051
0.054 0.257 28.0% 304 80.0% 260 55.2% 58 21.2% 80
28.3% 106 25.8% 66 22.5% 40 31.5% 92
40.5% 42 80.6% 108 77.6% 76 81.6% 76 55.2% 58
21.2% 80
rs621375 APPLERA_RESEQUENCING 10 132.6955 115738388
forward MIT
TCTTCAGCTTGTGCTCCTTCTTCCGCACTTGCTTCTCCTTGTGAATGACGCTGCTGCCCAGTAGGTTCACGTCCA
GCTGAGGGCTGTGGTCCTTGGAGGA[C/
T]TTGTAGCACTGGAAGGAAAGAGAGAAGATACACCACTTTGCCAGGGGTGCCGGGCGGAGGTGATGTCTGCAAA
GGAGGGGCCGCTGGACGTTGCAGGACT C/T 1,730 0.171 0.055
0.486 0.042 22.0% 182 80.1% 146 98.3% 58 96.3% 80
NA 0 20.7% 58 19.4% 36 23.9% 88
42.1% 38 NA 0 87.1% 70 73.7% 76 98.3% 58
96.3% 80
rs2615874 AB_ASSAYS_ON_DEMAND 10 135.6075 117329235
forward MIT
AAAGAGTTCAAAATAAATCCTTAAAAATCTCAAGATTATTATTGGCCTGGCACTTACCCAAACGAGAAAGTGAGC
TAGTCCCCAGCTACTAAAGTAATTA[G/
T]TCTAGTGCCCAGGGTTACTAAAACTGTAGCAGAGATTGAGTGCTAAGTGAGTAAAGGAGAGTAGTTGGAGAAA
ATATTGGTTTTAGTCTTTTTTTCCTTT G/T extended_map 0.252
0.018 0.507 0.075 13.0% 184 81.2% 154 93.1% 58
100.0% 80 NA 0 14.1% 64 10.0% 30 13.3% 90
7.5% 40 NA 0 78.9% 76 83.3% 78
93.1% 58 100.0% 80

rs2054533 AB_ASSAYS_ON_DEMAND 10 135.6595 117355586
forward MIT
TTTTCTTTATTTAAAAATAAAATGATTACTCTAATTATGGGAACTCATGTACCATTGGGCTGAAAGTCAGAGACA
GCTGGATGGTGAACTGGCCCCTTGC[A/
C]CAGACCTCAGAGGAAGATTAATTTGAAAACTCTTTACAGAACACAGCCCAGAGCCTACTGCTCAGAAGATCTT
GCTTTAATCAGCCATTGATCATCAGAG A/C 388 0.309 0.006
0.523 0.044 89.9% 198 15.6% 154 8.6% 58 1.3% 80
NA 0 90.9% 66 92.5% 40 88.0% 92
92.9% 42 NA 0 17.1% 76 14.1% 78 8.6% 58
1.3% 80
rs7893360 AB_ASSAYS_ON_DEMAND 10 135.9502 117502646
forward LGD
GTTCACCACACAGGGCCTGGAACCACTTGGCAGCCTGGTCCAGAGCTCTGTGATAAAGCTTCCAGGAGGGCCCAG
AAGGATGTAGTCTAGGTGAGGGGCC[C/
T]TGCAGCTTAACACTTCTGCTAAGGGAAGATCCCCCTCCAACAGCTCATTCCTCCTAGAGTGGGGAAATAAACT
CAGCCAGAGCAGGAGACCATTACGCAG C/T 840 0.252 0.190
0.045 0.148 24.2% 194 93.5% 154 48.3% 58 55.0% 80
NA 0 19.7% 66 31.6% 38 24.4% 90
35.7% 42 NA 0 96.2% 78 90.8% 76 48.3% 58
55.0% 80
rs992528 TSCAF 10 136.5916 117827169 forward MIT

ATCTTTTCTATAAATTGGCAAAAATTAAACAGAAGGATTATGCCAGCATTGGTGACATTAGGGCAAGAGGGCACA
CTCTTATGTTGCAATATTTTGAGAG[A/
T]CTCTTTCAACATTTTAAATCCTTAACTTATAACCTAATAGGTACTACTACGTGCCAGCATAGGTTGTATGAAT
GTTTGTGAACAAGAATGTACTATTATT A/T 97 0.34 0.264
0.052 0.139 14.6% 274 93.3% 240 37.9% 58 56.4% 78
10.0% 80 19.7% 66 12.5% 40 15.9% 88
9.5% 42 96.6% 88 94.6% 74 88.5% 78 37.9% 58
56.4% 78
CV3254786 APPLERA_RESEQUENCING 10 137.2774 118174186
forward LGD
ACTGTGCTTGGAAATGCTTGGCAATACAGGATAAAAATAAGTACAACATGCCCAAATACAGGATGATCGCTCACA
TAACTAACACAGAGAGTGTTTGTCA[C/
T]ATTGCTTATGCCTGTATGGAAGGGGATATGATAATGTGTGTACCTTATGCTCATGAGCTACCAAAACATGGTG
TGAAGGTTGGCCTGACAAATTATGCTG C/T 1,340 0.188 0.008
0.211 0.119 28.3% 198 89.0% 154 82.1% 56 52.5% 80
NA 0 22.7% 66 22.5% 40 34.8% 92
26.2% 42 NA 0 93.6% 78 84.2% 76 82.1% 56
52.5% 80
rs740600 AB_ASSAYS_ON_DEMAND 10 137.35 118316469
reverse MIT
AGCTGGAATCTGAGTGGATTTTCCATGATGACTTAATGTTGTGCAGAATTATAAAAAGCTAAAAAACGAAGCTTA
AGAAAATGATCACCCACATTTCAGA[A/
G]TCTTTGGCCGAGCTGAAATCGTAGTTCACGCATTGTCAGTGTTGCTTTTGCTGTGAGAATAGTCCGGTTTCCT
GAACCTCCTTGTGCCAGTGTATTTTAG A/G 1,818 0.131 0.068

```
0.033   0.038   20.8%   298     71.2%   236     40.4%   52      48.6%   74
        18.5%   108     15.2%   66      40.0%   40      19.0%   84
19.0%   42      68.8%   112     74.2%   62      72.6%   62      40.4%   52
        48.6%   74
rs716183        TSCAF   10      137.5776        118569082       forward MIT

TCCCATCAAGAGGTAGAGTCTATTCCCTTTTGCTGAATTAGGTGGAGCTTTGTGACATGCTATAATCAATAAAAT
GAAGTGGAAGTTGTGCTTGTTCTGT[C/
T]TGGGGCTAGGCTTTAAAGAGGTCTGGTAGTTTTTGTTCTTGCTCTCTCATAGAACCGAGCTGCTATGCTGTAA
GGAAGGCAGTCTAGACTGTGAGAGGAA     C/T             extended_map    0.095   NA
        NA      NA      15.2%   112     56.2%   112     NA      0       NA
        0       15.2%   112     NA      0       NA      0       NA      0
        NA      0       56.2%   112     NA      0       NA      0       NA
        0       NA      0
rs363333        AB_ASSAYS_ON_DEMAND     10      137.6678        118668682
        forward LGD
ATTTCCTATTCTATTCTCCCTTCTGTTGCTCAACAAGTAAGAAAATATTAAAGAAGACAGAATAAAGAGGACCTC
TTCCACCAAGTGGGAGGACTTTGGC[C/
T]TGTCTAAATGCCAGGTTTCGTAAGTGCATTTGTCAGAATCGCCCTTGGCAGCAGGAACTCTACAGCCACCATG
GCTGTCATCCTATTTTATGAGCCATGT     C/T             extended_map    0.211
0.114   0.063   0.037   26.0%   196     90.1%   152     55.2%   58
72.5%   80      NA      0       14.1%   64      30.0%   40      32.6%   92
        19.0%   42      NA      0       91.0%   78      89.2%   74
55.2%   58      72.5%   80
rs703422        TSCAF   10      140.0195        119492764       forward MIT

CCCCTATTTGCTGTGGTCACTTCTGTGATTGTCTTTTATTTCACATTGTCGTTCTTTCCCTTTCTTCACTTTTTC
CTTTTGCTCATCATTTATGTAATCC[A/
G]TACAATGAGGTACTACTTTTTTTTTTAGGGTATTGACTAAGGATTCAGCTTTAAAAAATGTATTATCAAATAA
TTATTTGGTCAGACTCAGTAGTTTTTC     A/G             extended_map    0.125
0.094   0.013   0.155   11.4%   290     56.4%   264     20.7%   58
12.5%   80      5.4%    92      16.7%   66      10.0%   40      14.1%   92
        26.2%   42      65.7%   108     48.7%   78      51.3%   78
20.7%   58      12.5%   80
rs1929671       TSCAF   10      143.2551        121532195       reverse MIT

AAGAGATCAGAATCCAGTTATAAAAAGATTATTCAAGGGAAAAACTGCGATTTGAGAGACAGACTCCAGAGAAAT
GGGATCAGTGTTCCAAAGTTTAAAG[C/
T]TAAATTCTTGCTTATACAGGCAGAAAACAAATAAATCTGACAGGGTAACATTTTTCTATACAAGGCTAGTTTA
TGAATGACAACAATTTAATTACTTACA     C/T             972     0.194   0.072
0.539   0.000   95.4%   302     44.0%   266     14.3%   56      45.0%   80
        97.3%   110     88.7%   62      100.0%  40      95.6%   90
95.2%   42      38.4%   112     47.4%   76      48.7%   78      14.3%   56
        45.0%   80
CV74903 AB_ASSAYS_ON_DEMAND     10      143.8059        121787981
forward LGD
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TTATAGCAGCCTGAACACATGGACAGGCAGGCTTCTGTTCATTTGTCTACAGCCTGTGTCCCCCCACCAGAATAC
AATCCCTTGGAGAGAGCAGGCACCT[G/
T]TGTGTCTTGTTCCCTGCTGATGACATCTCAAAATTTCTGGAGGAACATAAATGATGAGCTTACCTAAATTTGA
AAAGAAATCACTTTAAAACAAATCACA	G/T	556	0.226	0.116
0.068	0.168	20.7%	198	87.0%	154	50.0%	58	41.2%	80
	NA	0	19.7%	66	15.0%	40	23.9%	92
22.5%	40	NA	0	84.6%	78	89.5%	76	50.0%	58
	41.2%	80
rs2278202	APPLERA_RESEQUENCING	10	146.0929	122907784
	forward MIT
AATAAACAAGACCACAGACTCCAACCAACAGCCAACAGGGGAGTGTGTGTGTAAAACACTACGCATGTCTCACAA
GACAACCAAGGACAAGGGGCTTCTA[A/
G]AAGGAAGTTCTTACCTCATTGGTTGTGAGAGTGAGAATTCGATCCAAGTCTTCTACCAACTGCTTGAACGTTG
GTCTCTGGGAGGGCACTGCATGCCAAC	A/G	1,625	0.137	0.157
0.607	0.029	91.6%	178	46.0%	150	5.2%	58	66.2%	80
	NA	0	91.9%	62	96.2%	26	90.0%	90
90.0%	40	NA	0	43.2%	74	48.7%	76	5.2%	58
	66.2%	80
CV3006268	AB_ASSAYS_ON_DEMAND	10	147.3307	123632442
	forward LGD
TTCCAAATGATGCTTTCAATCCAAGCGTTTATTGATCCTGTAAGAAAGTGTGACCAGTCAAGGGGGAAACAAAGC
CAAGGCCAGTTCCTGAACTCAAGAA[C/
G]CTTGAAGTTTTCTTGTGTTGTGAGCTGAGTTCTCTGCCAGGTACTCCAGGAGAAAGGTTGCTATGAGCAAAGC
TTGGTAAGCACTCTGCAGAATACTCAC	C/G	203	0.3	0.004
0.439	0.000	73.7%	198	0.6%	156	1.7%	58	0.0%	80
	NA	0	69.7%	66	77.5%	40	75.0%	92
76.2%	42	NA	0	0.0%	78	1.3%	78	1.7%	58
	0.0%	80
rs874227	TSCAF	10	147.387	123672523	reverse MIT
TTTCCTTGGGACGAACCCACGCCCCAGAGCCCTCCCAGACTGTCTCTAACAGAACAAAAACCAGAGCCCTGGCTT
CCCAGACCCGGGCCTGTGCAGCCTC[A/
G]CGTGAGGTAGAAATGAGCCATTACTATTCCTTAACCTGATCAGTACGGCCCCTTCACAGGTCTATATTGGTGT
CCCTGGTGATTCTATGTGGTTGTTGAC	A/G	extended_map	0.132
0.029	0.117	0.116	57.5%	306	99.6%	264	92.9%	56
75.6%	78	57.3%	110	63.6%	66	60.5%	38	52.2%	92
	66.7%	42	100.0%	110	100.0%	78	98.7%	76
92.9%	56	75.6%	78
rs1649151	AB_ASSAYS_ON_DEMAND	10	150.1892	125075244
	forward LGD
AACAGCATCGACCTTAGCAAATCCTAACTGGCAGGCAATTCACTGTCTTACATTGGGATCAGTAACTATCTCTAC
GGACATAAAGCCTGGTGGCTCATCA[C/
T]GAACTAGGCAATGAATGCAAGCATTCAGCCCAGGCTGGCTTCCTTCACTGTTACCCTAACCCCTTCCAATTAG
CTGTGGGAGAAATGTGCTGTCAGTACT	C/T	577	0.221	0.001
0.301	0.019	19.2%	198	84.6%	156	82.8%	58	71.3%	80
	NA	0	21.2%	66	17.5%	40	18.5%	92
35.7%	42	NA	0	84.6%	78	84.6%	78	82.8%	58

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        71.3%   80
rs751514        TSCAF   10      152.1104        125941331       forward MIT

GCACCCGGCCTGTGCCAGCCAATGCACTGGGGGGAGTGTGTGTACATACAGATACAGATACACACACACGCATAT
CAACAGATGTGGACACATACACATA[C/
T]ATAAACACACACCCATATGGATAGTGCATTATCCACACATGTTGTTTCCCTTGCTCCTCCCACAGTCCTGTGG
CGGTGGTGGCATCTGCTGCACAGACAT     C/T             896     0.197   0.032
0.142   0.028   78.4%   310     16.5%   266     34.5%   58      33.3%   78
        80.2%   116     68.8%   64      78.9%   38      82.6%   92
75.0%   40      17.0%   112     15.4%   78      17.1%   76      34.5%   58
        33.3%   78
rs7099073       AB_ASSAYS_ON_DEMAND     10      152.7881        126184047
        forward LGD
TTCTGGGACTTTATGGTTTATGAGACAAATACTTGAAACTATGGCTGTCTCTTTAAAAATTTGGTTGGTATGTTT
ATATGTATTATCAGCATACTTCTTT[G/
T]CCCTGTAGAGGATGTTCAGCATTTTGATAGTGTTTGTGTCATATTATTAAAATAAAAATTAAATATTATGTTT
CTCTGGTTTACTTCAGATTTGTGTCTG     G/T             extended_map    0.173
0.089   0.044   0.020   14.9%   194     71.6%   148     36.2%   58
85.9%   78      NA      0       12.9%   62      10.0%   40      18.5%   92
        19.0%   42      NA      0       74.3%   74      68.9%   74
36.2%   58      85.9%   78
CV11752234      AB_ASSAYS_ON_DEMAND     10      152.8515        126206786
        forward LGD
TTTAAGTTAAAGCAAAGTTTTTACACATCAGCAGTAAAATATATACCTGGACTTTAAAACTGCTACTCTGTTTAT
TGTAACAAGATGTAACTGAGGAACA[A/
C]CAGCTGCTGTTTCCAAGTATTTGTAAACAGTGTGAGCATCTTGTGATGATAGAAGCTTTAGTCAGATGTTAAA
AATACCACAAAAATGTGTGACTCCAAG     A/C             extended_map    0.178
0.119   0.029   0.016   84.2%   196     26.3%   152     67.2%   58
13.8%   80      NA      0       84.8%   66      90.0%   40      81.1%   90
        81.0%   42      NA      0       23.1%   78      29.7%   74
67.2%   58      13.8%   80
rs7920286       AB_ASSAYS_ON_DEMAND     10      154.9862        126971304
        forward LGD
CAGCCACCGACATGCCTGAACAGCAGACATTAGTGACTCTGACACTCTTCCTAGGATTCATTCAGGGTATTAATC
AGCTTCAGAGGAAAACTCACAAACA[C/
G]TCTAAGAAGAATTCTGTTGCAAAAGTGATACCTAGCAGAGACAGTCTGCCCTTGCAGTCACTTGCATTATATC
CCAAAAGTCAATGCTAAGAGCTTGCAA     C/G             extended_map    0.13
0.094   0.017   0.016   19.4%   196     69.4%   144     32.8%   58
82.9%   76      NA      0       21.9%   64      10.0%   40      21.7%   92
        26.2%   42      NA      0       66.2%   74      72.9%   70
32.8%   58      82.9%   76
CV3183894       AB_ASSAYS_ON_DEMAND     10      155.0849        127006659
        forward LGD
TGTTGGGAAGCTAGATAGGAACACAAAGCCTCAAAATGCTGTGGATGAGTACCGACGAAGTATAATGGGAGACTG
GGGAAATAAGACATTTATGGAGGTT[A/
G]TAAGTTAGAAGGCTTTTGGGAAAGTGTTGTTGAGCAGGGTGATGCAGGATGTGTAGAGCATCAGCCGGCAAAT
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GTGAGGAAAGGAGGGCACTCCAGACCA A/G extended_map 0.125
0.090 0.018 0.014 20.7% 198 70.1% 154 34.5% 58
82.5% 80 NA 0 22.7% 66 10.0% 40 23.9% 92
28.6% 42 NA 0 67.9% 78 72.4% 76
34.5% 58 82.5% 80
rs2927504 AB_ASSAYS_ON_DEMAND 10 156.3531 127460863
reverse MIT
GTAATTTCACATTGAAGCCCCAGTCCCTTCCCTCTCCCATTCCTGCAGTTCACGGAGGTGATGTCACCCCATGCG
TGGTGGAGACTTAGGCCTTCCACGT[A/
G]CCACCCGCTGTCTGGGGCTTTCAGGCCTGTGAAGCATTTTCTTGCTTCTTCTCCACTCATAACCTCCCTCCCT
TCCCAAAGATGTCCCTACCAGCATCAC A/G 297 0.239 0.090
0.087 0.201 89.4% 198 24.4% 156 59.6% 52 76.9% 78
NA 0 84.8% 66 97.5% 40 89.1% 92
92.9% 42 NA 0 20.5% 78 28.2% 78 59.6% 52
76.9% 78
rs2483857 AB_ASSAYS_ON_DEMAND 10 158.6823 128385058
forward MIT
GAGCCACCGAGCCTGACCCCAGATATTTTTTCCTCTATTAAAACTTGCTCATTTCTTTAGGTCGTAGAAAGCTTG
AAGGAAACTTACTGTTTATATTCGA[C/
T]GATTTTGTTAGCTTAGGTGTTTGTAATTGTGTTCTGTCCCTCTTTCCTATGCCCCATTTCTGTTTCATTCTTG
TTCTCTAAGCCTTTTATCTTAGACAGC C/T extended_map 0.13
0.002 0.169 0.010 67.2% 198 16.0% 156 19.0% 58
7.5% 80 NA 0 68.2% 66 52.5% 40 72.8% 92
66.7% 42 NA 0 14.1% 78 17.9% 78
19.0% 58 7.5% 80
rs2720984 AB_ASSAYS_ON_DEMAND 10 159.0674 128586504
forward LGD
TGCTTTCAGGATATGCTGCCTAATGCTGGTTCCTGTTAGACAGGTTCGCCTGAGGGCTGAGGGATTTCATCTAGA
ACTACAGCCCCTCGAGGGGACTCCA[A/
G]GAACTCTTGGCTCTTTGGCTCCCATCTGGCTCCCAGCTTGCTCGTATTTGTTTGATCCGGGCCTGTGTGTGTT
ACATTTTTATAGGATCTCCCTCCGATG A/G 858 0.159 0.010
0.331 0.003 74.0% 196 17.5% 154 8.6% 58 12.5% 80
NA 0 74.2% 66 67.5% 40 76.7% 90
71.4% 42 NA 0 18.4% 76 16.7% 78 8.6% 58
12.5% 80
CV2009064 AB_ASSAYS_ON_DEMAND 10 160.1462 129155429
forward LGD
GACAGGATGATGCTGCCCTCAGCCCCTCCTCCGAGGCTTCCTGACATGTCTGATATCCAGAGCCTCCTTCCTGTG
CTTCAAAATTTCAGGCCTGTGTTAA[A/
G]ATGCGTCACCTGGAGCTTACATGAAGCCACCTCAGAAATCATTTCCTTAGGACAGGCTTCATTCCCAAGGTCC
AGTTTTGATGGTGGAGAGGGAAAGAAC A/G 1,409 0.121 0.002
0.217 0.018 26.5% 196 76.0% 154 81.0% 58 61.3% 80
NA 0 27.3% 66 20.0% 40 28.9% 90
28.6% 42 NA 0 76.9% 78 75.0% 76 81.0% 58
61.3% 80
CV3124692 AB_ASSAYS_ON_DEMAND 10 164.7105 130165585

forward LGD
AGCTTTGGCAAGGGGGACAGCATACACCACACCTGGGGAACTTCACCCTAAATGTTTAAAGAAATGAGCAGGGCT
CTAAATCACTCAACCTGGGGATCTC[C/
T]CTAGCCAGAAACAAAGACTGATTTTCACAGACGTCTTCAGTCTTCCAGTGATTAGGAAGAAAGTTCCAGTAGA
GCTGAACTTCCCTTTAATGTTCTCAAG C/T 548 0.18 0.013
0.387 0.001 35.2% 196 93.5% 154 100.0% 58 92.5% 80
NA 0 42.4% 66 27.5% 40 33.3% 90
38.1% 42 NA 0 93.6% 78 93.4% 76 100.0% 58
92.5% 80
rs1180610 AB_ASSAYS_ON_DEMAND 10 169.1147 131334387
reverse MIT
CTGGCAAATTAATTTGTCAGCACCACAGGTACTAAAACAGATTAGCTAATAGGCAAAACCTGCATAGATTTCACT
AAACTGGGTCTTGATGCACCCATGA[C/
T]GAGCGTGAAATGGGATTATCCCTTTAAAGTGCTTCATCTTTGTATTCTTGTCAAAAGAGGAGGAAAAAGACAT
TTTCTTACACCCTGAGGAAACAGACTG C/T 1,285 0.087 0.027
0.261 0.003 23.3% 180 64.9% 154 82.8% 58 59.0% 78
NA 0 23.4% 64 15.4% 26 25.6% 90
22.5% 40 NA 0 69.7% 76 60.3% 78 82.8% 58
59.0% 78
rs1001694 TSCAF 10 170.107 131643249 forward MIT
AGCCTACCTGGCCTAAGGCTACCTGAACATAGTATGCAAATGTATGCATTTATGCAAATTTCAGCAACCCAGATT
TCTGGCCACTGGGACCTCTGCTCTG[A/
G]GAGCCTGTGGGGCTGATGTGTGGTCTTGCTCTTGCAGCCTGACAGAGATTTACACACCTGCCTTCTTCCCTGT
TGGCCTCTTCAGCAAGAGCTGGCCTGG A/G 1,421 0.07 0.020
0.202 0.035 82.8% 290 47.9% 234 30.8% 52 70.0% 80
78.7% 94 84.4% 64 85.0% 40 84.8% 92
88.1% 42 53.4% 88 43.1% 72 45.9% 74 30.8% 52
70.0% 80
CV25641464 APPLERA_RESEQUENCING 10 176.0404 133411106
forward LGD
TCTTGGCCCTGCTCCCAGGCGGAGGGTGGCCCGGCCTCCGTTGCCCTTCCTGAAAGGTTTGTTCTGGGGAGAAGG
CAAGGACTAAGGCGTCTCCCCTTCC[G/
T]CCCCAGCACATCCTGGAGCTGGAAGCCATGCTGTATGATGCCCTGCAGCAGGAGGCCGGGGCTAAGGTGGCTG
AGCTGCTGTCAGAGGAGGAGCGCGAGA G/T 1,147 0.143 0.028
0.351 0.065 9.1% 198 56.4% 156 75.9% 58 26.3% 80
NA 0 9.1% 66 5.0% 40 10.9% 92
4.8% 42 NA 0 59.0% 78 53.8% 78 75.9% 58
26.3% 80
CV25932946 APPLERA_RESEQUENCING 10 177.962 134470771
reverse LGD
GGTGTGTTTGCAGCATGTGCACGTGTGCATACATGGCACACAGGTATATGTGCATGAGGATGCACGTGTGTGGGT
TCAAGAACTCACCCTGCAGCGCTCC[A/
G]AAGGACTCGATGGAGAGGACCCTCCTCCCCACAGCAGAGAGGCTCCGGCACACGCGACAGGAGGATGTGAGCT
GCAGCTTCTCTTCACACAGCGCGATGA A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 1,014 0.144 0.019 0.099
0.009 90.3% 196 42.2% 154 58.6% 58 31.2% 80 NA

0 97.0% 66 84.2% 38 88.0% 92 83.3% 42
NA 0 46.2% 78 38.2% 76 58.6% 58
31.2% 80
CV2431878 AB_ASSAYS_ON_DEMAND 10 178.4099 134811257
reverse LGD
AATTGTTTATAAAGATTAGAAAGATAATTTTAATTGGGGAAGTAAAATATCTCCTTTTAACGAATGCAAACAACA
CAAAAGTGGGTGAAGTGGAAACTGC[A/
G]AGTCCCAAATTCACCCTACAAAGGCAGCTTCCATATTTTAAACCCCATTGAGAAGGAAAGATTCTGCTAATTC
TCTTTTTATTATTTGCAGTTTTAATTT A/G SNP may have an inconsistent order
between UCSC HG16 and Celera R27 maps 216 0.278 0.005 0.323
0.031 88.8% 196 17.9% 156 24.1% 58 36.2% 80 NA
0 84.8% 66 90.0% 40 91.1% 90 97.6% 42
NA 0 19.2% 78 16.7% 78 24.1% 58
36.2% 80
CV197794 AB_ASSAYS_ON_DEMAND 11 0 696394 forward LGD

ACACACCAGCGCCTGAGCGCCTCGGGCCACCTCCCTCACCAGCGCCTGCACTCGCAGAAGACCAGCTGGGCACAC
CTGCCATCTGGAGGACCCAGCCCAC[A/
G]AACCATGCAGACCAGGGAAGGACCCCCTCCCTGAAGCTGGAGACCTGTTGCCTTCATGGTTAATGGATCCTGA
TACCTCCAGTCTCAGCGAGCACACAAA A/G 1,645 0.09 0.026
0.036 0.005 8.1% 198 42.9% 156 24.1% 58 51.3% 78
NA 0 7.6% 66 5.0% 40 9.8% 92
7.1% 42 NA 0 38.5% 78 47.4% 78 24.1% 58
51.3% 78
rs503652 AB_ASSAYS_ON_DEMAND 11 0.8913 1812848 forward MIT

CCCCGACACCCCCTGCTCTCCAGGCCCCTGTGTGTACAGGGAAGGCTTTGAGCACACGGCTCCAAACTGTGGGTC
CCCATTCTCCCCTCGTGCCCCACCT[A/
C]GGTCAGTCCCTGCGTCTGCCCCCACTCGGTGCTGCTAGTGCCAGCAGTATGAGGGTTTGCATTGGCTTTTGGC
CAAACCCTGGAATGTGCCTGCTGGCTG A/C 931 0.179 0.007
0.250 0.009 47.5% 198 100.0% 156 98.3% 58 97.5% 80
NA 0 36.4% 66 47.5% 40 55.4% 92
52.4% 42 NA 0 100.0% 78 100.0% 78 98.3% 58
97.5% 80
rs562401 AB_ASSAYS_ON_DEMAND 11 0.9183 1821294 forward MIT

CCCGAGGGAGCCACAGCGGGTTCTTGAGGAAGGCAGGGGGTACCCCAGATGCCACGTTTTGGGTGGGTTTGGCCG
GTCTCACAGAGCGAAGCCGACGATT[A/
T]GTGCCTGTTGGGTGGCCTGGCCTGGAGGCGGGGGGTCTTGACCCATGTCATGCAAGGGCTGCCCGGGAGCCCA
GGGCTCTGATGAGGCATGATGTCAGCA A/T extended_map 0.108 NA
NA NA 19.9% 136 65.6% 154 NA 0 NA
0 19.9% 136 NA 0 NA 0 NA 0
NA 0 65.6% 154 NA 0 NA 0 NA
0 NA 0
rs2071095 AB_ASSAYS_ON_DEMAND 11 1.4409 1984936 forward LGD

CACCTCTCCACGTGCCAACTACCGCCGGCCGGACGTGATGATCCCTGAGCGTGGAGCACACCCGAGCCATCGAAC
ATCCTAACCCCATCAGGATCCCCAC[A/
C]CCGTACCGAGTCCACAAGCCGCAGGGTGTCTGCTGCACCCACGATAATGGATTATCTCCAGCAACACAAGGAT
CCTGGACCAGAGAATAAAGCAGCAGTG	A/C	668	0.202	0.044
0.095	0.029	98.5%	198	51.3%	156	75.9%	58	71.3%	80
	NA	0	100.0%	66	97.5%	40	97.8%	92
97.6%	42	NA	0	47.4%	78	55.1%	78	75.9%	58
	71.3%	80
rs708564	AB_ASSAYS_ON_DEMAND	11	2.5905	2374408	forward	MIT

CTCCTGTCCCCCTGCCTCCTCCTCCAGGAAGCCCCCAGGGCCTGGCCCTCCTTGAGAGTGGCATGGAGGAGGAAG
AAGACTCGCCCAGGCCCATGGGAGT[C/
T]GGATGGTGGCCGCACTTGTGGGGCCCTGACCCCATAGGCTTCTTCAGCACGCCCTGGCCTGGGTGATCCCTGC
CTGAGGGCTGTGCACGGCTCATCTGCC	C/T	418	0.196	0.170
0.018	0.037	19.3%	290	80.7%	254	32.8%	58	60.0%	80
	22.3%	94	15.2%	66	18.4%	38	19.6%	92
19.0%	42	79.4%	102	84.2%	76	78.9%	76	32.8%	58
	60.0%	80
rs718579	TSCAF	11	2.7703	2461810	forward	MIT
GTGTTCCTGGAACACTCACAAACATTGATCATATACTAGACTGCAAAAACTTCAAGACATTCTAAAATTAAGAAC
CTATGCTGGATATCTCTGATTTCAA[C/
T]GTATGTTTAAAATATATGTTATTAATTACAAGTTTAATTAATGAAAGTCTAAAGAAGAAAAGTCTACTTAGAA
GTAAAAACATCAGCAATATTACTGTGT	C/T	extended_map	0.222	NA
	NA	NA	3.3%	92	59.0%	134	NA	0	NA
	0	3.3%	92	NA	0	NA	0	NA	0
	NA	0	59.0%	134	NA	0	NA	0	NA
	0	NA	0
rs231357	AB_ASSAYS_ON_DEMAND	11	3.1974	2669484	forward	MIT

CTGGCCCCACACTCACTGCTACATCTCTCTTCCAAATCATAAATGCAAAAGATGGCCAAAGGTGCATGCTCTGTG
ACACGTTTCATAGTCAGACAAAACC[A/
G]GCTGACTGCTTTTACTTTTTTTTTTTTTTCATTTAGAAGAATTTCCTTGGCAACTCCGTCTCTCCTTAGTCAA
CATCAGCTAACTTCATCCTCCCCCTTT	A/G	1,983	0.048	0.258
0.071	0.275	76.5%	336	46.5%	312	98.3%	58	98.8%	80
	75.4%	138	83.3%	66	87.5%	40	68.5%	92
73.8%	42	47.4%	156	48.7%	78	42.3%	78	98.3%	58
	98.8%	80
rs894457	AB_ASSAYS_ON_DEMAND	11	5.9174	4045813	forward	MIT

TAGGAACGGCCAGCCTGTAATCCTTTTTCTAATTCTAAGTTAACCAAGGGGGAGCAAAAAGTAGTGAGATTTCTT
GGAAAACTATTTTCAACCAAACAGG[A/
C]TCTTAGGGCCCACTTCCTGCCCTTTGGGAATGGCTGGCCTCGATTTAGGGTGCCAGCAGAAGAATGCTATTGA
ACCAGGAAACAGTCCAGAGAAGCAGCT	A/C	extended_map	0.13
0.010	0.290	0.000	46.4%	304	94.0%	266	100.0%	56
93.6%	78	39.8%	108	39.1%	64	55.0%	40	55.4%	92
	54.8%	42	94.6%	112	94.7%	76	92.3%	78

100.0% 56   93.6%   78
rs7933164   AB_ASSAYS_ON_DEMAND   11   5.939   4058259 forward LGD

GGAACTATGAAAGGGTGTCAGTCTTGATTCTACTTTAAAGGAGCTCGCTATTATTATAAAGGACAGACATATCAT
AGTATTGGCTTTTCTCAAGAGGCTG[C/
T]TTTCATAAAAGGACAGTATTTCAGTGAAGAAGTGAATCCTTAATGGTGTAACTTTATATAGTTGGGTCATGGA
AGAGTACAGTAAAGGAGGATATTCAGC   C/T   extended_map   0.266
0.080   0.136   0.037   16.8%   196   87.8%   156   58.6%   58
69.2%   78   NA   0   7.6%   66   17.5%   40   23.3%   90
        11.9%   42   NA   0   87.2%   78   88.5%   78
58.6%   58   69.2%   78
CV11285412   AB_ASSAYS_ON_DEMAND   11   6.0427 4118200 forward LGD

ATTATTATTTGTTATTAATATTTCAGCACAATAGGCATTTAATAAATAATCTGTTGAAAGAATGAGTGAATGAGG
GTCGAGTATGAAAGTAAGTTGTTGA[C/
T]AGTTAAACATGATGTTTAACCATTATGTAATCATAGTGATATATTCTATAACTTCTCCCAGATGCTTAAGTTA
GGATACTCAAAATGTATAAAGAAGTAT   C/T   extended_map   0.199
0.021   0.135   0.063   98.0%   196   50.0%   150   67.2%   58
78.7%   80   NA   0   100.0% 66   100.0% 40   95.6%   90
        95.2%   42   NA   0   51.3%   76   48.6%   74
67.2%   58   78.7%   80
rs890420   TSCAF   11   6.4859 4374235 reverse MIT
ATTCGTGTAGCTGTCGTTGTAGGCCAGCTACAGTGTGCCCTCACCAAGTCCATTCCCCTCACTGTCCCAGAAACC
TCAACCACCTACCTCCCAAGCAAAA[C/
T]TGTGTGTGTGTGTGTGTGCGCGCGTGTGCGTGTGCATGTGTGTGTGTTTTCCCAGACAGCACAGAGTGGAGTC
TCTTGGGGATAGGAATAGGTACCAATA   C/T   1,789   0.066   NA   NA
        NA   66.4%   134   29.3%   150   NA   0   NA   0
        66.4%   134   NA   0   NA   0   NA   0   NA
        0   29.3%   150   NA   0   NA   0   NA   0
        NA   0
rs1487841   AB_ASSAYS_ON_DEMAND   11   11.9435 7208908 reverse MIT

GTTCTGGGAAAGATAGTCATTATTTTTGCCGACTACTGAACATGAGAAGACTCTCTATGTCTGTAATGTGATGAG
AGTTGTTCCTCCTGTTTCAAAGGCT[A/
G]TGATTGAAGGCACCAAGGAGGAAAGATAAAAAGACATACATAGCAATGTGAGAAGACATCTAATAGGTTAGAA
TATATTCACACAAATATAAAGGTATCT   A/G   extended_map   0.108   NA
        NA   NA   2.2%   134   34.2%   152   NA   0   NA
        0   2.2%   134   NA   0   NA   0   NA   0
        NA   0   34.2%   152   NA   0   NA   0   NA
        0   NA   0
rs766498   TSCAF   11   11.9725 7221783 reverse MIT
TCATGTGGCCATAAGAAATTTACTTACTATGTCTGGATAGCAGTATTTCAATGGCAAAATAGCATGTTTGACAAG
GCAGGACACTTTTTGGGCTCTAATA[A/
G]TCTAACGTTGAAGTTAGATTAGCTGGTTTCATATGTATTAGTCTCATCTTCCCTACTAGACTATCATCGGGTA
GGGATAATATCTCAATCATCTCTCTAT   A/G   1,351   0.128   0.007
0.156   0.022   51.2%   332   96.5%   312   93.1%   58   87.5%   80

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        49.3%   134     47.0%   66      52.5%   40      56.5%   92
45.2%   42      96.2%   156     96.2%   78      97.4%   78      93.1%   58
        87.5%   80
rs2272383       AB_ASSAYS_ON_DEMAND     11      13.6159 8087808 forward MIT

CCATGCCACGAGATCAACACACACTCCCACCCTTGGGGTAGTAGTGTGTTGTAGTCGTACTTACCAAGCTGAGCA
ACCTCTTCAGCTGGGAAGGCCGCAA[A/
G]AGGCATAGAGGGAGAGGAAGCACACTGCAGGGCTGCTGTGGCCCAGTCGTCCGCTCAGCCAAGGAGTCAGATG
GCAATGGGTACTCCAGCAGGTAGGGGC     A/G             278     0.255   0.114
0.068   0.018   97.0%   198     37.8%   156     77.6%   58      53.7%   80
        NA      0       100.0%  66      100.0%  40      93.5%   92
100.0%  42      NA      0       44.9%   78      30.8%   78      77.6%   58
        53.7%   80
rs905290        AB_ASSAYS_ON_DEMAND     11      14.9152 8718038 forward MIT

AGTCTTTTCCACTCTATCATTGAGGAAGCCAATGGGGTGGGGAGGCCAACTCCTTAGGCAGCTCCACCCTCCAGC
AGTGGCATCACATCCAATAATTGGC[A/
G]TCTACCATGTCCCAGCTCCAAATCCATATGCAGATCTTGGCAACTACAAGGAACACTTCTGAATAAATGTTTT
TACATATGTTAACTCATTTAATCTTCC     A/G             592     0.25    0.030
0.477   0.015   0.3%    292     50.9%   234     71.7%   46      36.2%   58
        0.0%    130     0.0%    50      0.0%    32      1.3%    80
0.0%    36      57.1%   140     48.1%   54      32.5%   40      71.7%   46
        36.2%   58
rs1375998       TSCAF   11      16.7259 10345084        forward MIT
TCCTAATAAAGGTTGGTTAAATGAATGAGGAAAATTGAATAAAATAAATAGGAAAGGCTGATGGCTGGAGAAAAG
ATAGATTGGCAGTGATCCTGGGCTA[A/
G]TGGGCTCAGGGAAACAGGCCTGTTTTCCTCATGTGATCCTTACCACCAACAACTGAGCTTCAACCTTTCCCCT
ATAATAAGAGAAATAATTCTCAAAACA     A/G             2,046   0.054   0.145
0.010   0.227   40.9%   296     74.2%   264     29.3%   58      18.8%   80
        35.0%   100     43.9%   66      37.5%   40      46.7%   90
11.9%   42      72.7%   110     67.9%   78      82.9%   76      29.3%   58
        18.8%   80
rs9292  TSCAF   11      16.8242 10492792        forward MIT
TTTCCTTATTCCAAATCCTGTCTTTTCCCCACTATTCCATTAGACCCCACAAATGTTAGTTGTGTGTGTGTGTGT
GTGTGTTTTTAATCACTGTAACCGG[A/
G]TGCATTTTTTTAAGGCAAAATTTCTCCCTTATCTACTATGATGACTTCAGAAGATACAATGGTCCCAGGGGCC
AAGTAGAAAGCATTTTTAAAGATTAAT     A/G             2,093   0.048   0.001
0.075   0.000   79.8%   326     99.3%   290     100.0%  58      100.0%  78
        76.5%   136     82.8%   64      91.7%   36      77.8%   90
78.6%   42      99.3%   140     98.7%   78      100.0%  72      100.0%  58
        100.0%  78
rs4910190       APPLERA_RESEQUENCING    11      17.1977 10786511
forward LGD
AGGAAGAAAGTGTTTAGGAGCCCTCATTTCTCTTACACCATTGACAGCCTCATTTGCATTTCCACTATTTAGATA
TTCAGTCACAACAGTTTCCTGTGAA[A/
G]AACACAAGTATCTTTAATGTATTCTCTATCTCAAATACAGGCTAATTACACTAAAATGGGATATTTGAAACTT
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ACAGTTAGTTTAAGGAGTTCTTCCTTT A/G 1,791 0.1 0.139
0.499 0.006 90.8% 196 52.6% 156 11.1% 54 61.5% 78
NA 0 92.4% 66 95.0% 40 87.8% 90
92.9% 42 NA 0 51.3% 78 53.8% 78 11.1% 54
61.5% 78
rs903833 TSCAF 11 17.3133 10835652 forward MIT
TGGCAGTGCTTGTTACTTGGTTTCCTTTGGTTTTATTTAGAGAAAAAAAAGCCAATTCTGAAGGGTAGGTAGGGT
TTAAATACAAAGGAAAAGAATCTTC[C/
T]CTTTGGGATTCAGTCACGGTAACTACATTTAGGTTAGGGTAATCTAGAACTAGTTGCTATCTGGAACTCGACT
TGTCTGTTGTCCACCAGACCCACCTTC C/T extended_map 0.122 NA
NA NA 60.4% 134 100.0% 156 NA 0 NA
0 60.4% 134 NA 0 NA 0 NA 0
NA 0 100.0% 156 NA 0 NA 0 NA
0 NA 0
rs901559 TSCAF 11 18.8191 11454090 forward MIT
CTGGTAAAATACCATGCCTTCTTTCAGATGTAGTAATATGTTATCATTCTCCTCTGTCCCACAGCCTTTGGAAGT
TTAATAACTTATGACTGCAAGGTCT[A/
G]TTTTCCTCATCTGAACGTCATAATGTTTCATCTTCCCTGCCTGAGCATGGAAAGACCCACCTCCCCAAGGCAA
GTTGTTGAGGGCTCCTGAATATACTCA A/G 1,998 0.067 0.000
0.104 0.027 44.2% 292 10.2% 254 9.6% 52 24.4% 78
43.5% 108 50.0% 64 57.9% 38 34.1% 82
69.0% 42 9.8% 112 9.7% 72 11.4% 70 9.6% 52
24.4% 78
rs2013262 TSCAF 11 20.7166 12186654 reverse MIT
AGGGGAGCCCCCTGCATCCTTCCGTCCACCAGGCCCGACCCAGTACTGCTCCCTGGACAAGGCAGGAGACCCCTT
TCCCACCAGTCAGGGAGCTGCCATG[C/
T]ATTTTGCACGCAAACAGTAGCTGGTGTACAGTTTCTGATTCTCTTGGCTAAACCTAAAATCCCATTGGCGAAA
GCTCGGTTTTCCCACCATCCTGGGCCC C/T 767 0.193 0.023
0.173 0.317 30.5% 318 91.3% 298 79.3% 58 28.7% 80
29.4% 126 29.7% 64 41.7% 36 28.3% 92
52.4% 42 90.1% 152 90.5% 74 94.4% 72 79.3% 58
28.7% 80
rs903211 AB_ASSAYS_ON_DEMAND 11 21.0587 12376484
forward MIT
ATGTAGCAGGCAGGTTACGACCCTAGCTGAGTAAGTAAGGGGCAGAGGCTGCTGTAGTCTCTATGTGGAATTAGA
ACTCCTGGCCCTGCAAAGTAGAGGT[C/
G]GGTGGGGAGGCTCACAAAGGGACCCTGGTTCTTGCCTCCCTCACTCCATTCTCCCACACTTGAGACTTGAAAA
TAAACTTTCCTCTCTGTTGGGAGGGGT C/G 1,018 0.167 0.003
0.297 0.007 23.2% 198 80.8% 156 86.2% 58 88.7% 80
NA 0 30.3% 66 20.0% 40 19.6% 92
35.7% 42 NA 0 79.5% 78 82.1% 78 86.2% 58
88.7% 80
rs1440284 AB_ASSAYS_ON_DEMAND 11 21.9917 12887108
forward MIT
GAACCATTGGTTTGGACACACTCCTTTGTGGTCCAGTTACCATGTCTTATCCCAAAGCAAGGGGAAGAAAAGGGT
TCACTTTGTGAGTGAAATGACTTAA[C/

T]GTGGTTTAGAGTTTTTTGTTTGTTTTTTCATGAATGAGTGACCTGTGTTCTTTTTCATCAGCCATGTATGGCC
TTGTAGATCTTCTCTGTGATCTGTACC C/T 1,598 0.127 0.058
0.047 0.312 39.4% 198 89.0% 146 65.4% 52 25.6% 78
NA 0 36.4% 66 30.0% 40 45.7% 92
42.9% 42 NA 0 91.7% 72 86.5% 74 65.4% 52
25.6% 78
rs2289436 AB_ASSAYS_ON_DEMAND 11 21.993 12887743
forward LGD
TAAACATACTCATCATTTCAAAAGCATTGATCCTGGACTGGAAGGCCTAATTCCAGAATTTTGGTACTACTGCTC
TTTATCCAGTTCAAGATGGATGAGT[C/
T]CCAGGTTGATCAAAGAGTTTGTAATGGGAATGTTTCTGTTGGTTTCTTACAGTACAACAAACACCTCTTCGTG
CACATTGGGCATGCCAACCATTCTTAC C/T extended_map 0.086
0.059 0.018 0.219 51.0% 196 90.3% 154 67.2% 58
38.8% 80 NA 0 42.4% 66 42.5% 40 61.1% 90
52.4% 42 NA 0 92.3% 78 88.2% 76
67.2% 58 38.8% 80
rs2170436 TSCAF 11 22.2185 13197047 forward MIT
AGTTATTTTGATAAATTTGGTAGTAATTATTATAACTTTACATAATAAATTTATGGAAAATATAGACATACAATT
GCATAAAGCTAGGTGGGCTAATTAA[A/
G]TACCATCATATTGCTGGTGAGGGTGGCTGTTATTATTATTACACAAAATATATTTATTCTTTGAACAAATATT
TATTAAATGCTACATATGCAAAAACTA A/G extended_map 0.084 NA
NA NA 68.4% 136 26.7% 150 NA 0 NA
0 68.4% 136 NA 0 NA 0 NA 0
NA 0 26.7% 150 NA 0 NA 0 NA
0 NA 0
rs1481877 TSCAF 11 22.242 13236400 reverse MIT
TAGACAATGGGGCCTGCTTCTGAGCTAAGGGAAGGTGGCATTTAGAGAAGATTACCCAGTAATTGTGTACTGGCT
GGGCTATTAAGCAGTCTCTAACACG[C/
T]TGAGATTTCTGGGGGAGAGATGCACTTAAGGCCAGAAATCTATCTACACAGGTAGCAGTTCGTGTGAAAAAGA
CATAGGAGTCTTAGCATTCAGCAAGTT C/T 220 0.291 0.050
0.162 0.046 98.2% 332 37.0% 300 63.8% 58 62.5% 80
97.1% 136 98.5% 66 100.0% 38 98.9% 92
97.6% 42 35.3% 150 39.5% 76 37.8% 74 63.8% 58
62.5% 80
rs722317 AB_ASSAYS_ON_DEMAND 11 24.2735 15887871
reverse MIT
TCAAGCTGGGAGGTAGGGGATCAGCAACTGCTTATCAGTTAGTGCCTCACTGGTTTCTTCCCCATGAGACACTGA
ATAAATATTTGCTGAATAAATGGCC[C/
T]ACTGGCGCATGTCACCTTGTCCTTAAACTCTGGCTCTAGCAGGATTTCTGAGTCTCAGGGAGTGTCCCGCTCA
ACACACTTCAGGAAGTAGATCTGTTTG C/T extended_map 0.126 NA
NA NA 6.1% 132 47.3% 146 NA 0 NA
0 6.1% 132 NA 0 NA 0 NA 0
NA 0 47.3% 146 NA 0 NA 0 NA
0 NA 0
rs730992 TSCAF 11 24.3634 15949591 reverse MIT
ACATCATATGTGAGATAGGATTTTCCTCATTTGAATTGTGAAGGCCCAGAGATAGGACATGACCCACCCAAAGTC

ACACACAGATTAAATGTCAGTGTGG[G/
T]AACATGCACTTGTGTTTTCTAATTCTAAACACAGGTGAACGTGTTGCATATGACCTCACAATAGTCTGTGGAA
ATTGCTCATCACTGGAACAGCCCTGGA G/T 1,352 0.237 0.014
0.271 0.179 29.8% 302 95.8% 264 89.3% 56 55.0% 80
21.8% 110 37.5% 64 19.4% 36 38.0% 92
30.0% 40 96.4% 112 93.6% 78 97.3% 74 89.3% 56
55.0% 80
rs476890 TSCAF 11 25.59 17174271 forward MIT
TGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAGAAAAAGAAATGTCACAGAACAGAGAACACACAAACACCT
AATGAATTAAATTTCAGAAAGTGAT[A/
G]GCCCTTTAATAGAGAGAGAGGCCCAACACTACTCTCTTCCCTGGTGCAGCAGCATCAGGAGAAAACGTACTGT
AGATGGGGATAAGAAGAAACAAACCAG A/G extended_map 0.122 NA
NA NA 0.0% 116 29.3% 150 NA 0 NA
0 0.0% 116 NA 0 NA 0 NA 0
NA 0 29.3% 150 NA 0 NA 0 NA
0 NA 0
rs2051772 AB_ASSAYS_ON_DEMAND 11 25.6417 17354159
reverse MIT
ATGGCATTGCCTGACCACATTCCTCAGTGCCCCAGTCACTCCCTGCCTTCCTTACTCTTCTCAGCCCCAGGGAGA
TGCATTTTACCAGCAGAGCCACCCA[C/
T]ACCCAAGACCAGAGCTATGACCAAGGCATATGAGCTCAAAAAGCCCCAGCCCACCAGCAGGAGTGGGTCTGCC
GTGAACTGTGTTTTAAGGATCCAGTGT C/T 2,121 0.202 0.004
0.187 0.008 99.7% 332 57.5% 294 64.8% 54 67.9% 78
100.0% 136 100.0% 66 100.0% 40 98.9% 90
100.0% 42 58.6% 140 61.8% 76 51.3% 78 64.8% 54
67.9% 78
rs757511 TSCAF 11 27.1609 17738782 reverse MIT
AGCCACCCATCTATGCAGCTTTCATTCATTTGTTCATTCATTCCATCATCAAACATTTACTGAATGCCTATTATG
CACCAGGCACTACTTTTCACAACCA[C/
T]CTCCAGAAATAAGAGTGCAGAACTGGGCACACAGTAGGTACTCAACAGTAATGATGAAGGCAGCTACCACGTA
CTGACACATTCTGAGCCAGGCCTATTC C/T extended_map 0.143
0.134 0.561 0.029 96.1% 330 55.3% 304 13.8% 58
35.1% 74 100.0% 132 98.5% 66 97.5% 40 88.0% 92
97.6% 42 58.6% 152 57.7% 78 45.9% 74
13.8% 58 35.1% 74
rs1015896 AB_ASSAYS_ON_DEMAND 11 27.3382 17847695
forward LGD
GTTGCCAACTAGAATGGGGCAGAATCTGGATAAAGGAGTCTGATGGGGATTCTAGAGCCACAGTCAGACTGTAAA
TCATGACATCCCCTATCCAATAGGT[C/
T]GGTAGCATCTTGTCTCGTTAAAAAGCAAAAACTTACCAAATTAATATCTTACAAAGCCACAAGATTGAAACCA
CTGCCATTCCTCCCAGGTTTCTCTGTT C/T 1,808 0.1 0.030
0.287 0.002 15.7% 198 57.9% 152 77.6% 58 52.5% 80
NA 0 10.6% 66 22.5% 40 16.3% 92
15.0% 40 NA 0 51.3% 76 64.5% 76 77.6% 58
52.5% 80
rs907922 AB_ASSAYS_ON_DEMAND 11 27.6653 18097351

reverse MIT
GGCCCCAGCAGTGACCATCTCCAAGTTCACTGTGTAGCCTGAGGTTATTCCTTTCATAATCCCAGAAAATCCTGG
ATTCTTGGAGAGGGGTGTTCTCAGA[C/
T]ACTCCACATAGTTTATTTCCCAAGTTGGATCCTCTCTCCTGGGTCTTGCTGGCCCAAGTATCTCTGGTTACAG
TGGACTGTTTCTAGGCCCCTCTATGTC C/T 1,225 0.156 0.107
0.556 0.042 8.1% 198 57.1% 156 91.4% 58 80.0% 80
NA 0 6.1% 66 0.0% 40 13.0% 92
7.1% 42 NA 0 51.3% 78 62.8% 78 91.4% 58
80.0% 80
rs1533723 AB_ASSAYS_ON_DEMAND 11 27.8747 18257194
reverse MIT
TACCTCTAAACCTGTTTATCCAACCGAGAACATCAAAGGCTTCTCTGCAGTGTCAATCCGATAAAGCATGTAAAG
TATAGGACACAGTCTTGCAATTGCA[A/
G]TGTAAAAGATGGCAGCGATTCTAGTTACTATTCACTGGCCTTCCATATTCCAGCAGAGTTTGGACTGCCACCA
GTGTGTGCCTGTATTGAGGCTCTTATT A/G 1,985 0.071 0.053
0.009 0.001 28.4% 306 66.3% 288 38.9% 54 63.7% 80
25.5% 110 24.2% 66 30.0% 40 34.4% 90
26.2% 42 72.9% 140 56.8% 74 63.5% 74 38.9% 54
63.7% 80
CV11588358 AB_ASSAYS_ON_DEMAND 11 28.3371 18610152
forward LGD
TTTTAAAAAGAGAGGAAAAAAAAAAAAAAGCTTCAGGCTGGATTACATTATATTCTATTTAATAACCCAGAAGAA
CTATTTGGCACTTCCCCTCGCATCA[A/
C]ATGGTCATATTTAGCTCTAGCAGCAGCACATCAGGATGCATCCATCAATTCTGAATCTGAGTCAAGGCACCAG
GCTGCTTCATTGTTTGAGCTTCATGGA A/C 572 0.253 0.043
0.157 0.060 92.4% 198 27.6% 156 51.7% 58 56.2% 80
NA 0 98.5% 66 87.5% 40 90.2% 92
92.9% 42 NA 0 24.4% 78 30.8% 78 51.7% 58
56.2% 80
rs905552 TSCAF 11 28.9271 19060468 reverse MIT
CCTGACACAAAGCAAGTGCTATCAAAAAGATCAACATTGTTATAATAACTATTATTATTGTTGTTACTCTCGCTA
GGGCTGAGCACTAGAAGAGGGAGAC[A/
G]GGGCTTCCTGTAGCTCCGAGTCTGCTAAGCAGGAGCCTGATTTGCCATGGACAGGAGTTGACTTCAGTCCTCA
GGCTTGTGGGGTGGGGGCAGGGAGGAC A/G 137 0.331 0.018
0.563 0.034 98.8% 332 33.4% 302 18.5% 54 55.0% 80
100.0% 136 100.0% 66 100.0% 38 95.7% 92
100.0% 40 33.1% 148 35.5% 76 32.1% 78 18.5% 54
55.0% 80
rs7934511 APPLERA_RESEQUENCING 11 31.2086 19768077
forward LGD
CCATTTTCTACTAATTCCCCAAAATCTCAAGGGCAAGAAGTTCCATTCTTTCCTTGAGAAAGCAGGTTGGAATAT
ACAGGAATAGTTCCATATGCATTTC[A/
C]GCTGTGGGTAATGAGCCCTCATAGCCTTGATGTACTTTCCTGAATTGAAACCAAAGCATGTGAGGAAGGTTTT
GACTTTGGTTAATTACTAGGAAAATAA A/C extended_map 0.099
0.085 0.413 0.152 79.5% 190 35.9% 156 6.9% 58
1.3% 80 NA 0 87.1% 62 70.0% 40 78.4% 88

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        75.0%   40      NA      0       34.6%   78      37.2%   78
6.9%    58      1.3%    80
rs918989        TSCAF   11      31.3285 19781973        reverse MIT
AACTTCTCATTTCTTTTCTTCCAGAAATTCTATAAGTATCCAATTCCCTGTATGAAATCTCTTCTTGTTTGAGGT
ACCAAGAATGGTTCCTAGTTCCTGG[A/
G]CTATCCCCCCATTGATGAATTCCCTAATTTACTATTTAGCTCCTTAAGCTCAGTAACTATATAACACATTATA
TATATGCAGTTTAGTGCTTAGCCCTAC     A/G             1,892   0.104   0.004
0.153   0.002   34.0%   326     0.0%    308     0.0%    58      0.0%    80
        34.6%   136     32.3%   62      33.3%   36      34.8%   92
19.0%   42      0.0%    156     0.0%    76      0.0%    76      0.0%    58
        0.0%    80
rs2034031       AB_ASSAYS_ON_DEMAND     11      33.0415 19983067
reverse MIT
GAGGGGCCCTGGAGGCCCACCAACATCTCCCCACATAGTGCTCCACCAGCTTCTGGTTAGGTGTAGGGCACCCAA
AGTCGTCCCTGCACTCACCTTCTAG[C/
T]GTCAAACTTTGCACCCCATAGGAGGTGACATGACAGACTCCTACCCAGACTACAATGGCCTGTGGTTCTGTTC
ACATCTTCTCTAGGGCTTCAATTACTG     C/T             extended_map    0.118
0.025   0.065   0.040   85.4%   322     40.0%   300     58.9%   56
63.7%   80      87.3%   126     81.8%   66      92.5%   40      82.2%   90
        76.2%   42      40.7%   150     39.2%   74      39.5%   76
58.9%   56      63.7%   80
rs894747        AB_ASSAYS_ON_DEMAND     11      35.0577 20582898
forward MIT
AACCTTCAAGCCCTGCTGATGCCCGCCCCTCCGTCCCAGCGTTGGCCTCATAGCGAACCCTCTTAGGCCTCTCCG
TTCCAGACCCTCCCTCCATTCTCCA[C/
T]GTAGCCCCTCCCTTCTAGAATCTTGCGGCTGAAAGTGGGGGCAGGCGGGGAGCCCGAATAGCGCCTCAGCCAA
ACCCCGCAGCCGTTCCTGCGCGTCACC     C/T             2,047   0.05    0.008
0.036   0.000   41.1%   316     73.2%   306     63.8%   58      75.0%   80
        42.7%   124     48.4%   62      28.9%   38      39.1%   92
32.5%   40      72.7%   150     73.1%   78      74.4%   78      63.8%   58
        75.0%   80
rs5004854       AB_ASSAYS_ON_DEMAND     11      35.2315 20704573
forward LGD
AAAACATTTCTTCAAGGTAAGCTATGAGCTCCTGGCAAAATGTATTGCTAGTCTTCAGACTGGATTTCTGTGCAT
AGTGTTTTTCATATCTGTAATCTTC[A/
G]TTAGTCTGGATTCTAGAACTTAAGGCTCTAGAACTCAGCCCCAGTACGATGAGGAGAACGAGGGGCCAAATGT
TGATGAGGCAGAAGGAATATCGGCTTG     A/G             extended_map    0.118
0.047   0.373   0.004   67.2%   198     18.2%   154     1.7%    58
12.5%   80      NA      0       62.1%   66      70.0%   40      69.6%   92
        73.8%   42      NA      0       20.5%   78      15.8%   76
1.7%    58      12.5%   80
rs752088        TSCAF   11      35.2897 20745313        forward MIT
GAAGATCACATTGAAATGCTGTACACTTCTACTTAATGCTGCTAATGGTTTGTTGTGAGACTCAGTGTCACCAGG
ATTCACAAACCCGTGAATACCAATG[A/
G]AACTACAGTATTGCTAATAACCATAAAACATCTATTCTTGCATCATTCTGTCCAAGCATAACCTCTCGTGTTT
TGTGCGTCATCTCAGGAATCTAAGTCT     A/G             extended_map    0.058
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0.016 0.030 0.000 65.3% 334 30.5% 298 44.8% 58
30.0% 80 71.3% 136 53.0% 66 52.5% 40 70.7% 92
61.9% 42 33.8% 142 25.6% 78 29.5% 78
44.8% 58 30.0% 80
rs1880085 APPLERA_RESEQUENCING 11 35.5447 20923842
reverse MIT
GCCTTAATAGCTTCTTCCAAGGCTACCTGATCCACAGCTGACCACAAGCTAACCACATAAATGGCCTGGCTGGAT
CCTCGCCATCATGTAATCCAACCCA[C/
T]CGCAGAGAGTTCCACCCCTCGGGGCCCTATCCAGGCCAATATGCCCCACTCAAGAACCTCATCTAAAGCCCAC
ACATCTATCTATTCATTTTCCAGAAGT C/T extended_map 0.124
0.007 0.256 0.035 25.0% 192 75.0% 148 83.9% 56
53.7% 80 NA 0 21.2% 66 23.7% 38 28.4% 88
11.9% 42 NA 0 76.3% 76 73.6% 72
83.9% 56 53.7% 80
CV408730 AB_ASSAYS_ON_DEMAND 11 35.7056 21036479
forward LGD
CGGAGAAGAGAAATTATTTCTAAATCTTCTATGACACATAAATATTCAGACCCATATCCTGGATCAGCCTACAAG
GCTTGGTTCAGGGTCAGTAAGAACT[A/
G]CTTCTAAAGATAAATGATTTTTAAAAATGTTTTCTCTGTTAATGTCTGTCTTCTTCTTTAACTAGGATGAAGA
AATACCAGGGTCACCTCAGCCTCCTAA A/G extended_map 0.145
0.027 0.093 0.136 79.1% 196 25.7% 144 44.2% 52
69.2% 78 NA 0 84.8% 66 75.0% 40 76.7% 90
70.0% 40 NA 0 32.9% 70 18.9% 74
44.2% 52 69.2% 78
rs1377740 AB_ASSAYS_ON_DEMAND 11 35.9072 21177599
forward LGD
CAGCACTTTCCTCCTATGGAGATTGTTTTAAGATATCCATTTTTGTGCAGAGCATTTGGCCTACTCTTGGTAAGA
CTCAATCTTTGGACGAGACATTTAG[A/
G]TATTTGAACAAGAAGTTAGGAAACTTGGATTATGGTTTCAGACAAAATGAGGACACGAGTAACTTCCTGCCTT
TCTTATAAAGTTGATGTGAAAAGCAAA A/G 539 0.217 0.041
0.143 0.053 81.4% 194 16.7% 156 37.9% 58 41.2% 80
NA 0 87.5% 64 85.0% 40 75.6% 90
90.5% 42 NA 0 23.1% 78 10.3% 78 37.9% 58
41.2% 80
rs1945561 AB_ASSAYS_ON_DEMAND 11 36.4597 21564473
forward LGD
TAGCCAGTCCCATGTTCATTCTGAGATCAATGGGAACCTATTAAACAATTATACATTTATTTACCCACTCTTTCA
GGGACTTACATGTTTATACAATCTG[C/
T]TTTTTAGCTTTGAATTAATTCATATTTAATTACTATTCAGTAAACATTACAGAATTCCTGTTACGTACCTAGC
AAGAATATAAGAAGAAAAATACATCAT C/T extended_map 0.226
0.260 0.010 0.029 71.2% 198 5.8% 154 60.3% 58
18.8% 80 NA 0 80.3% 66 80.0% 40 60.9% 92
64.3% 42 NA 0 6.4% 78 5.3% 76
60.3% 58 18.8% 80
rs1945562 AB_ASSAYS_ON_DEMAND 11 36.4598 21564538
forward LGD

CACTCTTTCAGGGACTTACATGTTTATACAATCTGCTTTTTAGCTTTGAATTAATTCATATTTAATTACTATTCA
GTAAACATTACAGAATTCCTGTTAC[A/
G]TACCTAGCAAGAATATAAGAAGAAAAATACATCATCTTTTCCATTAGAAATTTAATATCTAGATTGAGTTATC
ATAAAGCAATAAAAAGATGACATAATA A/G 341 0.23 0.260
0.011 0.030 28.1% 196 94.2% 154 39.7% 58 80.8% 78
NA 0 19.7% 66 20.0% 40 37.8% 90
35.7% 42 NA 0 93.6% 78 94.7% 76 39.7% 58
80.8% 78
rs1945334 AB_ASSAYS_ON_DEMAND 11 36.7909 21792207
forward MIT
GTTATCCAGCAAATTCACCTAGAACATAGGAAAATAAAGGAATCTCTGCAAAATATTTTTGATAAGTAATACAGG
TGTCCTCACTTCATTCATCCACTAA[A/
C]ATTTTCACCTATAATGAACTTCCTCTCAGTTTTACTGCCAGTAGAATTGGCAACAGTGACATAGAGCTCTCTC
AAAGAATTGAGTATAAATGAAAATAAA A/C 1,153 0.162 0.093
0.045 0.039 33.5% 182 89.7% 156 58.6% 58 71.3% 80
NA 0 29.0% 62 23.3% 30 40.0% 90
35.0% 40 NA 0 92.3% 78 87.2% 78 58.6% 58
71.3% 80
rs4271385 AB_ASSAYS_ON_DEMAND 11 37.4357 22221593
forward LGD
AATCATATTCAGGATAAAACTGATAGAAATATTCAAGTTGTTGCAAAGTGGCTGTAGAGATAGGATCACTTTGGC
TAATAAATTCAGATATCAGGTAAAA[G/
T]CCCTTGTAAAAATAATTAATTGAAGAAGTATTCAAGACAGCTTGGATAAATATCAATTCTACTCCATATTCCC
CCAACTGAACTGTTAGTAGTGACATTA G/T 942 0.181 0.000
0.310 0.119 43.9% 198 98.7% 152 100.0% 56 71.3% 80
NA 0 47.0% 66 42.5% 40 42.4% 92
59.5% 42 NA 0 98.7% 78 98.6% 74 100.0% 56
71.3% 80
rs340942 TSCAF 11 37.7699 22447791 forward MIT
TAAGAGGCCTTGAGGCGAGGTTCTGTTGGCTCTTTATATCTGGCCTAGGCTGCCATGTATATCTGCTCAGGATCT
AAAACAACCACAGTCAGAAAGACTC[C/
T]AGTAATTCAATGGGAATTGAGAGTTGACTCAAGTTTTATCACATTTTACTTCTCAGTTGCATTGGACATGGTA
CACCACCTGCTTCCTGAAACACTTTTC C/T extended_map 0.127
0.038 0.054 0.006 12.0% 324 57.9% 302 34.5% 58
48.7% 80 15.1% 126 13.6% 66 7.5% 40 8.7% 92
9.5% 42 58.7% 150 56.6% 76 57.9% 76
34.5% 58 48.7% 80
CV105991 AB_ASSAYS_ON_DEMAND 11 39.7444 23869914
forward LGD
CGAGGGCTGCGAGGACTGTCAGCACGCTGTCACCTCTTATTACTACTTTTTTTCATACACAAATCCAGCCATTCA
TTTCTTTAGGAGTCCTCATAAAACC[A/
G]TGAATTCACCATTGACTTCAACTTATATTTCACACTATAATAGCCAATCAATGTAGTTTGCTAAATATAATAA
GCACAAGGTATCTATCTAAAAGAAATT A/G 1,664 0.123 0.035
0.077 0.000 49.0% 196 94.9% 156 81.0% 58 96.3% 80
NA 0 59.1% 66 42.5% 40 44.4% 90
38.1% 42 NA 0 96.2% 78 93.6% 78 81.0% 58

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        96.3%   80
rs1867208       TSCAF   11      42.2519 25500531        reverse MIT
GTTCCAGAAAGCTGAAAGGAGCAGGGGGAAACTAAGAAATATTACAAAGGTTCTAATTTTTGGACAAAAGTTTTC
AAGTTATCTACTAATTAGTGAAGAG[G/
T]CACAACAAACCTATATTAACTGGCTTGTTACAGATTGCACGGCAAATCATGATAATTTTAATTTGGAACATGA
ATCTATGCTCTTTGTGTCTTCACATAT     G/T             1,217   0.166   0.004
0.250   0.002   51.0%   290     100.0%  256     100.0%  50      100.0%  78
        48.0%   102     53.3%   60      47.4%   38      54.4%   90
52.4%   42      100.0%  110     100.0%  74      100.0%  72      100.0%  50
        100.0%  78
CV25636109      APPLERA_RESEQUENCING    11      42.3274 25574757
forward LGD
ATCAGAGCTGTTCTGTCTATATGATGAAAATGAGAAAAGGCATCTGAGACCCTCGCCTCACGCAGCTCTTGCCTA
ACAGGAAAAGGTCAAATGCTTTCTA[C/
T]TAGGCTCCACCTCCTGAATGCTGTCACATTGGAGATCAAATTTCAACGTAAGTTTCTGTAGGAACAAACATAG
CAATTACTTCCTATGGATATTTCAGTG     C/T             extended_map    0.174
0.002   0.320   0.003   57.2%   194     2.6%    156     0.0%    58
0.0%    80      NA      0       50.0%   64      65.0%   40      58.9%   90
        52.5%   40      NA      0       0.0%    78      5.1%    78
0.0%    58      0.0%    80
rs882257        TSCAF   11      42.3543 25601195        forward MIT
TAACAGCTGCATTATTTTGCATTCCTACCAACATTGCACAAGGGTTACAATGGCTCACATTCCTATCAACAGTTG
TTATTTTCTGGGCTTTTTAGAGAAT[C/
T]GTCATTCTAACAGATGTGAGGCAATATTTCATTTTTTGACTTACATTTCCATAATGATTCATGACAGTTGGAC
TTTTTTTTATACCTGTGGGTTATTTTA     C/T             extended_map    0.042   NA
        NA      NA      50.0%   134     78.9%   152     NA      0       NA
        0       50.0%   134     NA      0       NA      0       NA      0
        NA      0       78.9%   152     NA      0       NA      0       NA
        0       NA      0
rs1968995       TSCAF   11      42.5592 25782819        reverse MIT
AATTTGGAAGTGATAGAAAGCAATAGAAAGAGAGACTATTAGGAGATTGGAAATAATCCTGAAATGGAGTGTGCT
TTTGCCAGATGATACAGTAAAAATC[C/
T]TATTAACCTACAAGTTATGGGTAAAATACAGGAACTTAGGGATCCTTGTGTCCAGAGACAAACCATATATGCT
ATATGGGTAGCTGAGGCATTTTTGTCA     C/T             extended_map    0.169   NA
        NA      NA      5.4%    112     54.5%   112     NA      0       NA
        0       5.4%    112     NA      0       NA      0       NA      0
        NA      0       54.5%   112     NA      0       NA      0       NA
        0       NA      0
rs1968994       TSCAF   11      42.5593 25782883        reverse MIT
GTCTATTAAACCATTTTGACATGCTTTTGTGTTAGAAAGGTCACATAACAGAAATATAGAGTAAAATTTGGAAGT
GATAGAAAGCAATAGAAAGAGAGAC[C/
T]ATTAGGAGATTGGAAATAATCCTGAAATGGAGTGTGCTTTTGCCAGATGATACAGTAAAAATCCTATTAACCT
ACAAGTTATGGGTAAAATACAGGAACT     C/T             extended_map    0.146   NA
        NA      NA      92.1%   114     44.6%   112     NA      0       NA
        0       92.1%   114     NA      0       NA      0       NA      0
        NA      0       44.6%   112     NA      0       NA      0       NA
```

0 NA 0
rs1117335 TSCAF 11 42.622 25835670 reverse MIT
TTGGGAGGAATATTTCAGATTTTTTTTTTAATTAAGCTTTCCATTTCTTTCGCTCTCTTCTTCTAGGATTCCCAT
GATTTGCATATTGTTTTGGTTGATG[A/
G]TGTTTTATAAATTTTACAGGCATTATTCACTCTTTTTTTATTTCGTTTTTTTCTCCTTTGACTGACTGATTTT
AAAGGATCTGTCTTTGAGTTCACGGTT A/G extended_map 0.09 NA
NA NA 68.7% 134 100.0% 148 NA 0 NA
0 68.7% 134 NA 0 NA 0 NA 0
NA 0 100.0% 148 NA 0 NA 0 NA
0 NA 0
rs1542085 TSCAF 11 42.6735 25878990 reverse MIT
AGCATCATTTATTAAGCATATTGGCTGTTTCTATTTCTCTCTATAATCAGGTTATATCCTTTGTTTATTTTTCCA
TCAACATACATATTGTTTTCTTTTC[A/
G]CAATTTGAAGTGTTCCTTGATGTTATTGCAATAAGCCATTTTCTCTCTAATAAAATTTGAGACATCTATATCT
ATCAAAGTCACCAACAATCCTTTTGTG A/G extended_map 0.084 NA
NA NA 98.7% 76 72.2% 90 NA 0 NA
0 98.7% 76 NA 0 NA 0 NA 0
NA 0 72.2% 90 NA 0 NA 0 NA
0 NA 0
rs1441484 TSCAF 11 42.7219 25915628 forward MIT
AATTAATCTTCACTTAATAAAATCTCAGGGACTCTCCTCTCTCCCCACCTTCTCTCTTCCAGAGTTTTGTAAAAC
ACTTTATAAAAATCCACCACGGAAA[A/
C]TGTTGCCATTTGTCGGGGATGTAGAAAGGAAGGAGGAGAGTCACTCTCACCTTTGCAATGAAAAATTGGACCA
TACATGCAGGACTTTTTAAACATTCTT A/C extended_map 0.039 NA
NA NA 66.0% 94 37.2% 94 NA 0 NA
0 66.0% 94 NA 0 NA 0 NA 0
NA 0 37.2% 94 NA 0 NA 0 NA
0 NA 0
rs1441490 TSCAF 11 42.7337 25923391 forward MIT
TGTGACAAATATAGCAGAAAATAAATGTCTTAGTATATTTCTGAAAAATCAAATATTTGCCAACAATTCATCTGA
GCCTGAAAACGCCACACAACGAAGA[C/
T]GGAATAATAGCAGACAAGTATTTCATAAATTATTGCCAAATCCAATTGTAATGTGAAAAAAAAGCTTAGCAAA
AGTTTATTTTGTCTGCCTTTGGACATA C/T 1,960 0.075 0.001
0.092 0.174 70.5% 308 31.4% 264 34.5% 58 80.0% 80
73.6% 110 72.7% 66 65.0% 40 67.4% 92
66.7% 42 35.7% 112 30.3% 76 26.3% 76 34.5% 58
80.0% 80
rs1032091 TSCAF 11 44.744 28256387 reverse MIT
TTTATACATCAGATAACTGACTCAGAATGTTGAAATAATCTGTCTATTGTTACGGGTAGTGGCAGGCTGAGATTC
TAACCCTGGTTGTTCTGTTTCAATG[C/
T]CTCTATTCTTGATCACCGCATAATATTACAATGTTCTGGAATACTACTTTTAGAGTTGGAACTCATCCTACAT
ATTTTGTACCTCAAAAGACTCTTGATA C/T 1,780 0.092 0.016
0.230 0.061 14.3% 300 53.8% 260 69.0% 58 25.0% 80
13.6% 110 14.5% 62 18.4% 38 13.3% 90
18.4% 38 60.7% 112 56.8% 74 40.5% 74 69.0% 58
25.0% 80

rs522234 TSCAF 11 44.9651 28720779 forward MIT
CTCAAGAGAATCAGAGGGAAAGGGCATAGGGTTAAATGGTTGTTTCACAAACATTCAAAGAGGAAAGATACTTTC
AGAACCAGGCTAATGTACATTGCTT[A/
G]TGAAGAAATACAGAGATTCTAGTATTTTTTTAAATTAATAAATATAAAAGCAAAATGGGACCAAGAGATTTGA
ATTTAGTGTACATAAAATGAAAGAGCT A/G 1,824 0.089 0.075
0.007 0.008 15.3% 300 54.5% 268 22.4% 58 43.8% 80
11.3% 106 17.7% 62 15.0% 40 18.5% 92
14.3% 42 59.8% 112 46.2% 78 55.1% 78 22.4% 58
43.8% 80
rs97064 AB_ASSAYS_ON_DEMAND 11 45.811 29598337 forward LGD

TCATAATGGATGACATCTGGCTCTGGCATTAATGAAGAACATTTGAGTTTTGGCCTCTTAGCCAAAGCCACTCAA
TGAAGACATCAAGCAGTTTAAATAT[G/
T]TCCTGATATCAGGAGGTAAATATCTGAGGCTCCCAGAAGTATCAAGATCCCAAATCATGTAGAGATGTCTTAC
ACAAGAATTCAGCAAACATTTTATTCT G/T 803 0.18 0.059
0.480 0.017 4.1% 196 52.6% 154 80.4% 56 67.9% 78
NA 0 1.6% 64 2.5% 40 6.5% 92
19.0% 42 NA 0 53.9% 76 51.3% 78 80.4% 56
67.9% 78
rs324293 TSCAF 11 45.8747 29657887 forward MIT
AGGATCCAGGCTGATTCAACCTGTGGCCTGCAAGGTTACCACTAAAGGGGAAGAGACAGCATGAGGTAACATCTT
GTTCTTAAAGGCTTTGGGCTAGATG[C/
T]TACACAGATTGCTTCTGTTTGGGATCCATTGTCTAAAACTTGTCGTGTGGTTTTCATGTTCAAGAAATGCAGA
ATCAAATACTGAGCAATATTAGTTTCG C/T extended_map 0.062 NA
NA NA 79.1% 110 44.6% 112 NA 0 NA
0 79.1% 110 NA 0 NA 0 NA 0
NA 0 44.6% 112 NA 0 NA 0 NA
0 NA 0
rs549272 TSCAF 11 46.2819 30427419 forward MIT
TGCCACAATCCCCTTCCATGAAACCAATCACTTAGAAACATCTGTAATGTATGAAATACTAACAATTGACAATAA
TCTTGTGGTAGTGACTTAATTATGG[A/
C]TCCAAAAGATGCCCCCCTATTCCAGGAGCCTGGCAAAAGATCTGTGATTCTGTGGTTTAGGCTCATATTTCTC
TCCCACTTTGTCCTTTAATTCAATCCC A/C 254 0.261 0.008
0.294 0.026 84.0% 294 14.0% 242 21.4% 56 29.2% 72
81.6% 114 86.2% 58 88.9% 36 83.7% 86
77.8% 36 12.5% 104 21.4% 70 8.8% 68 21.4% 56
29.2% 72
rs1223079 AB_ASSAYS_ON_DEMAND 11 47.1092 31421155
forward LGD
AACAATCTAGGGATATCTTTGTCTGACCATCCCATTGAACCAGGATCAGTGGTTTCTACATTCCATCTCTTCATG
AAGCTTTCCCTAAACTTGCCTGCCC[A/
T]TACCAACCTGATTGTTTCCAATACTTAACACACAAAGTCAGCCTTGCTTGGGGCCCTACATTATAACCTTTAA
TATTATTTTTAACCTGCTTGGCTTTTC A/T 1,467 0.156 0.035
0.089 0.000 18.2% 192 73.1% 156 51.7% 58 73.8% 80
NA 0 22.6% 62 20.0% 40 14.4% 90
22.5% 40 NA 0 71.8% 78 74.4% 78 51.7% 58

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        73.8%   80
CV2775979       AB_ASSAYS_ON_DEMAND     11      47.6807 32434038
forward LGD
ACAAGAACGAAACTCTGTCTCAAAAAAAAAAGAAGTATCCTTGTAACAACCCTCACTTTTACCAGATCCAAGAAT
TCTCTCCAGTACCTCTCTATGTTAT[A/
T]CAGGGATACTGAAGACAATTTCATTAAGTTTTACAGAGAGGCCCCTGGTGAGTATGTAAATAATTAGCTCATC
ACTATATTGTGAAAATTAGGAAAGCAT     A/T             1,705   0.116   0.039
0.046   0.147   84.2%   196     38.3%   154     62.1%   58      82.5%   80
        NA      0       80.3%   66      89.5%   38      84.8%   92
78.6%   42      NA      0       35.9%   78      40.8%   76      62.1%   58
        82.5%   80
rs2755168       AB_ASSAYS_ON_DEMAND     11      50.7145 34253550
forward LGD
AGTGGGTGAGTTGAAGGTTTGAAAAGGAATCACCCTAGTGGGGGAAAGTGCATCATCTCCAGTTTTTGGTGTGGA
TTTCGTTTATGTTTGTTACACAAGG[A/
G]CTTGGCCAACCAGGTGCTATCTGAGAAGGAAGTATCAGTGTTCTTATGCTTTCCAGGAGGACATTGGAGACTT
CCCTTATTAAATTGCCTTGCACACGGG     A/G             extended_map    0.13
0.045   0.061   0.038   65.3%   196     14.3%   154     35.7%   56
1.3%    80      NA      0       66.7%   66      68.4%   38      63.0%   92
        76.2%   42      NA      0       15.4%   78      13.2%   76
35.7%   56      1.3%    80
rs2078164       TSCAF   11      50.7761 34335149        reverse MIT
CACCCTTGCACCTTGCTCAGTTATGGCTCGATTACCCCCAACAACAAGTGGTCTGGCAGTGGGCAGAGAGATTAG
ATCTCACCCTCTGAGCTCAAGCCCA[C/
T]CTCTGCCAGGATGACAGCAAGAGTGCACATTCAAAGCTCCAGGCCCCCAGAGAGCAATTCTCCTGTGGATATT
GGACCCTGCTTGTGGCAGCCGCCAAAT     C/T             1,241   0.18    0.058
0.068   0.113   6.6%    304     58.0%   262     29.3%   58      19.2%   78
        3.5%    114     1.6%    64      8.3%    36      13.3%   90
7.5%    40      50.9%   112     66.7%   78      59.7%   72      29.3%   58
        19.2%   78
CV3121231       APPLERA_RESEQUENCING    11      51.3683 34964054
forward LGD
TTTTACTAACCTTATTTTTCTTTCAGATGACATTAAAGTATCAGTAAATGATTTTATCATCAAGGCAGCAGCTGT
TACCCTTAAAGTAAGTAGCAGACTT[C/
G]AAATGATTTTGTCTTCTTAAGTAGTTTCATGTCGTGGAATTTTTACAATGACAAATAGAACTCTTATTTTTAA
ATCACAAAAATTTTATAATTGTCTTGC     C/G             382     0.208   0.045
0.113   0.003   10.1%   198     69.9%   156     44.8%   58      76.2%   80
        NA      0       12.1%   66      10.0%   40      8.7%    92
9.5%    42      NA      0       66.7%   78      73.1%   78      44.8%   58
        76.2%   80
rs609714        AB_ASSAYS_ON_DEMAND     11      52.3699 35609932
forward MIT
CCAAGTGGTAGAAGGGCCGTGGGAGTGCTAGAGATGGAGAAAAGGGAATTCAGAGCATAGGAAATGCTCCAAAAG
AGAATAGAATGTCAGCTGCCAAGGC[A/
G]GTACGGAAATCAAAGGACAAGGGTTGACATCCGCCTTCAAGCATATTTTAGGCATTAGAGTCTAATGGAAAGG
ATACTGAGAGACAGGAGACCTGGGCTA     A/G             799     0.161   0.003
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0.185 0.000 83.8% 198 28.8% 156 34.5% 58 26.3% 80
NA 0 87.9% 66 85.0% 40 80.4% 92
90.5% 42 NA 0 34.6% 78 23.1% 78 34.5% 58
26.3% 80
rs7122699 AB_ASSAYS_ON_DEMAND 11 53.6803 36394616
forward LGD
AAAGTCTGGGTTAGAGGTTTGGGTTTCATGAGCCCTTCCAAGAACAAGAGCAGCTAAGCTGACACAAGAGCACAC
TCTCCCTAAACAGTCTTTTCTGCCA[A/
C]CTCTCCCACTGATTTTATGTAACCGAGAAGAATTAGAAAAGTGTGAAAAAAGCAAGACTGATGTTTGCTGGTT
CTTTGAAGAACCTGCTTGCCAATGTTC A/C extended_map 0.116
0.000 0.187 0.001 32.3% 198 80.9% 152 82.8% 58
83.8% 80 NA 0 22.7% 66 40.0% 40 35.9% 92
26.2% 42 NA 0 84.2% 76 77.6% 76
82.8% 58 83.8% 80
rs1056403 AB_ASSAYS_ON_DEMAND 11 54.01 36565479
forward LGD
CATTTTGTTTAATGGCTTCCAAGAGCCTTTTTTTTTTTTGTATTTCAGAGAAAATTCAGGTACCAGGATGCAATG
GATTTATTTGATTCAGGGGACCTGT[A/
G]TTTCCATGTCAAATGTTTTCAAATAAAATGAAATATGAGTTTCAATACTTTTTATATTTTAATATTTCCATTC
ATTAATATTATGGTTATTGTCAGCAAT A/G extended_map 0.087
0.192 0.008 0.090 23.0% 196 64.3% 154 13.8% 58
28.7% 80 NA 0 19.7% 66 22.5% 40 25.6% 90
9.5% 42 NA 0 61.5% 78 67.1% 76
13.8% 58 28.7% 80
rs1445479 TSCAF 11 55.8907 37431741 forward MIT
GGCTCCCTCTGGCTGGCCTGTATTCTCATGCAGGGATTAGCAGCTCTCTTCCCTGGGATCAGTCTTACAAACTAA
GAAGCCAAACATAAATTGATACTTG[C/
T]TTTCTGCAGCCTGAGTACAGTGAAAAATCTGCTGGGACAAGGAAAGATGAGGGGCAGAGTCTGGCCCTGGCCA
ATGTTGCCTTTAGGATGCAACTGGATC C/T 1,385 0.126 0.066
0.418 0.004 9.7% 310 53.8% 266 82.8% 58 61.3% 80
11.6% 112 9.1% 66 5.0% 40 9.8% 92
2.4% 42 44.6% 112 67.1% 76 53.8% 78 82.8% 58
61.3% 80
rs435582 TSCAF 11 58.2267 41821503 forward MIT
TTCTTAAGAAATTTTGCTAAATATTTTCCTATCAACCACTTCACTGTCTTGTCTGGCAACATCTATTGCTGGTCA
TCTCTTCTTCACTAACTCTATTCTT[C/
T]GGATATGTTTCAAGTTGTTGCAATTTCCACATCTCTCAAAGAGGCAACGCAACACAGAGGAAAAATATATGGC
CAGCTCTAGATACAGACAAACTTAGGT C/T 377 0.222 0.049
0.105 0.110 98.0% 296 46.8% 220 73.1% 52 84.3% 70
97.3% 110 98.5% 66 97.5% 40 98.8% 80
97.6% 42 43.3% 104 54.8% 62 44.4% 54 73.1% 52
84.3% 70
rs1365084 AB_ASSAYS_ON_DEMAND 11 58.8613 43074363
forward MIT
CATGTAGGGTCTTCAGGGGAATGAAAAGATGTTTTTACAAATATGTCTCCCCCAAGAGACCGTTTCTAAGCGATC
TCAATAGCCCCAGGTGTTAAGTGTC[A/

G]AAGGAAATGTGCCAAGTTTTATAAGGCAAACATGCTGGTCTGGGCACTGGCTGCTTTAAAATGACCCTTGATA
AAATGTATGAATTCCTGAGCATCTCAT A/G 2,069 0.055 0.027
0.199 0.004 59.1% 286 25.4% 248 9.3% 54 18.9% 74
67.0% 112 53.7% 54 50.0% 32 55.7% 88
69.0% 42 26.4% 110 23.5% 68 25.7% 70 9.3% 54
18.9% 74
rs835774 TSCAF 11 62.5159 44870563 reverse MIT
CATGTGGCTGTGCAGCTTCTGGCAAGTCTCTGCACCTCTCTGAGCCTCAGCAGCCTCATCTGGAGCATAGGAATA
AAGATGGCACCCACCTCCCAGTGTC[A/
G]TCATGAGGGTCAAATGAGGCCCTCATGGGTCACAGGCAATGCCCTTAGCAATGAGAAACACTGGGCAAGTGGT
GGCTGACTTAAACCTCTGCAGGGAGAG A/G 1,668 0.134 0.103
0.013 0.068 11.4% 308 58.3% 264 20.7% 58 27.5% 80
14.5% 110 4.5% 66 15.0% 40 10.9% 92
9.5% 42 58.9% 112 55.3% 76 60.5% 76 20.7% 58
27.5% 80
CV9654120 AB_ASSAYS_ON_DEMAND 11 62.8611 45070109
forward LGD
ATTCACAACAGGCAAACAGACATACCTTAAAACACAGCCATTGAATCATGTGTTCATCTTCTCTTTCATCCAGAG
GCTTCTTTCCTTTACCCTGGATCTC[A/
G]CTTTACAATTCACAAAGTGCTTTCCTTTGTTTACTCACTTCCCTAACCTTTTTGAGGATATCCTCTGTGCTAG
GCAACACATGGAAGGTGAATAGGAATC A/G extended_map 0.152
0.027 0.385 0.049 31.3% 198 86.4% 154 98.2% 56
100.0% 80 NA 0 34.8% 66 32.5% 40 28.3% 92
23.8% 42 NA 0 88.5% 78 84.2% 76
98.2% 56 100.0% 80

rs939105 TSCAF 11 63.3785 45913843 forward MIT_and_LGD

CCGCTCTTCTCCCCTGCTCATGGGTGCTCCTCCTCAGGGCCTCCATTGAGCAGCTGGGGCTGGGCAGCCGGCGCA
AGGCAGCACTGGTGGTGCCGGCATT[C/
T]GAGACCCTGCGCTACCGCTTCAGCTTCCCCCATTCCAAGGTGGAGCTGTTGGCCTTGCTGGATGCGGGCACTC
TCTACACCTTCAGGTAGGAGAGGCTAC C/T 926 0.188 0.194
0.012 0.123 27.9% 330 88.4% 310 39.7% 58 51.2% 80
25.0% 132 24.2% 66 20.0% 40 38.0% 92
47.6% 42 92.9% 154 85.9% 78 82.1% 78 39.7% 58
51.2% 80

rs3802890 AB_ASSAYS_ON_DEMAND 11 63.5869 46498855
forward LGD
ATATAACTTTCCCCTTTTGCAGCCAGCTAACGCCTGTTATCTGGGATCACACCCTTCTACAAGCTAAGTAGGTAG
AGACACAAATAAATGAAGAGCTGCA[A/
G]AACTCCCACACTGGACATGACCACTGCATTCTGCTGAATACTGCTCTTCAATGAGAAATGAACAAGTGCTTCA
GAGACATGATCTTCTTTCTATTTGCAG A/G extended_map 0.218
0.072 0.592 0.015 92.4% 198 33.1% 154 6.9% 58
20.0% 80 NA 0 95.5% 66 87.5% 40 92.4% 92
97.6% 42 NA 0 35.5% 76 30.8% 78

6.9%	58	20.0%	80

CV1178512	AB_ASSAYS_ON_DEMAND	11	63.5888	46507833
forward	LGD
CAAAAAGACACCACAGTGCCTACAGTGTAGATCAGCCTTATTTTACTATTATCAAATATAAACAATTCACAGAGT
GCAAAATAATGCTTTTCACCAGAAA[C/
T]GCTTAAAAACATCTTTACAAAACATTAATGTATTCCTCAGTGCCTCTGGGCAGTGAGCGATAGATGGCAAAAC
ATGAGAGCACAACATAATCGCAGACAG	C/T	283	0.247	0.067
0.622	0.012	94.1%	188	32.0%	150	6.9%	58	20.0%	80
	NA	0	98.5%	66	88.9%	36	93.0%	86
97.6%	42	NA	0	34.2%	76	29.7%	74	6.9%	58
	20.0%	80

rs2290884	APPLERA_RESEQUENCING	11	63.6613	46854697
forward	MIT
CTTATCTGGGACAGAATCAGGTCTCCCAATTTAAGGCTTCTCAAAAACAGAGGAAATCCAGGATTACCCTACTCC
CAGGGACAGGGGAGGAGGAGAGATA[C/
G]AACCGCGAGGGAGTAAAAAGTTCTAAGCGTTTAAAATGTGAACCAAGAAGCTCTCTTGTGGCCCTAACTGTCT
TGGTCCCTAACAGTCCTTGGGTTGACC	C/G	1,185	0.169	0.058
0.069	0.040	16.5%	182	73.0%	152	44.8%	58	50.0%	74
	NA	0	23.4%	64	21.4%	28	10.0%	90
15.8%	38	NA	0	70.3%	74	75.6%	78	44.8%	58
	50.0%	74

rs1039484	AB_ASSAYS_ON_DEMAND	11	63.81	48062257
forward	MIT
TTTTGCACATTCATTGTTGTATTAGAGTTTGTTTTTTTGTCTTACCTTGTTTTAATAAATTATAATCTTATGGGA
GATGACACTGTCTTTTCTTTGTTTC[A/
G]TATATAAAAAGTGTTTTGCTGATATACGTAGAATCAAGTTGGTCTGGAGTTACTCTGGATAAGGGATGAAATC
AGGGAGCTCTTGTGTTCAAAGGGGCCT	A/G	507	0.244	0.007
0.421	0.007	9.1%	286	73.5%	234	82.6%	46	82.8%	58
	8.0%	112	6.7%	60	13.2%	38	10.5%	76
18.4%	38	69.6%	112	71.7%	60	82.3%	62	82.6%	46
	82.8%	58

rs7104137	AB_ASSAYS_ON_DEMAND	11	64.3295	58375309
forward	LGD
CATTGTGTGAACATTTCTCACTCACTTTATTGCATCTCTGTGATTACTTCGATACTATCTTGAGTCAGCACTTTC
TACTTTAAGTTATACAGCCAAGGTG[A/
T]GTCATGGCTGCTGGAAGGTTTGATCATAAGGACCAAGTCCTAAAATGTAAATTAGGATAGGAAAAGTGGAGTC
TGGAGAGAAGCCAAGTCCTTAAGTTCC	A/T	1,927	0.091	0.086
0.007	0.090	66.3%	196	23.0%	152	57.1%	56	57.7%	78
	NA	0	75.0%	64	62.5%	40	62.0%	92
83.3%	42	NA	0	23.7%	76	22.4%	76	57.1%	56
	57.7%	78

rs1037448 AB_ASSAYS_ON_DEMAND 11 66.3846 60909892
forward MIT
AATTCACCTTTGCCCCAAACAGGCCTACCAGGGCTAAAACAGGTAGTTGAATGTGTCTCATCATTAGCTATTTGG
GCAGGTGGATGTTGATACAGGTTAT[C/
T]CTTAGGCATCAGTGCCCCATGGCTAATGCTGTAGGCAGTGGATGTTTTTGGAAGTAGCCAAGCAGGATTGCTG
CTTGCCCTTGAGTGCTCCATGCCGTCT C/T 2,124 0.173 0.018
0.393 0.049 72.3% 310 13.9% 266 3.4% 58 0.0% 80
65.2% 112 77.3% 66 72.5% 40 77.2% 92
73.8% 42 15.2% 112 14.1% 78 11.8% 76 3.4% 58
0.0% 80

CV2020721 AB_ASSAYS_ON_DEMAND 11 67.7959 62015223
forward LGD
CTGACCCAGACCCTCCCCACTGCTGGCCTTCCTTTATCAGCTCCTTGCCTTCCCCTCTGACCCATGGCTCACTGA
CCCTCCCTGCATGGGCCAGTCCTCA[C/
G]AACTGTTCTTCTACTGTCCTTCCACTCTGAGTTCTTAGGCTTTTGTCAACACCCCAGCCCTCAGCAATGCCTG
CCAGAAACCACCCCAATCCCAAGGCCC C/G 1,620 0.238 0.075
0.103 0.002 10.3% 194 75.0% 156 43.1% 58 80.0% 80
NA 0 9.1% 66 10.0% 40 11.4% 88
7.1% 42 NA 0 73.1% 78 76.9% 78 43.1% 58
80.0% 80

rs581355 APPLERA_RESEQUENCING 11 69.5494 63558440
reverse MIT
CCTGCCGGAAGCTGTGAGCCCTGGGGAAGGGGACCTGTCCTTTCCTCCCCACATCTCTGCACCAGGCCTGGCGCC
GACCAGCCTCAGGAGATACTGTGGG[C/
T]GAAACAGTGAAGGAATGAAAGGGCCGTGGCGGGGGCCATCTGCCTCTCTGGACCCCCCCATGCGTCTGCGTCC
GGGTGAGCAGGCAGGCCCTGATAGCTC C/T 1,951 0.121 0.173
0.001 0.112 2.5% 198 37.0% 154 0.0% 58 5.0% 80
NA 0 4.5% 66 2.5% 40 1.1% 92
0.0% 40 NA 0 36.8% 76 37.2% 78 0.0% 58
5.0% 80

rs663149 AB_ASSAYS_ON_DEMAND 11 69.6441 63661899
reverse MIT
TTCACAATTCTATTGTTCAGGAAATGGTAAGAACTGACCCAAGAAGAACGGTAAGGACCGTGCATGTGGCTCTAT
CTACCCATCTGTACTTAGAGACACC[A/
G]CGACAGGGATAGACAGGCAGACAGATGCACCTCCAGGTGGCAGGGAAAGCTACGGCTTCCGCCGGGGCTTCTA
CGGAGCGTGGTGCATGGAACTGAAGAG A/G 1,372 0.174 NA NA
NA 89.1% 110 34.0% 106 NA 0 NA 0
89.1% 110 NA 0 NA 0 NA 0 NA
0 34.0% 106 NA 0 NA 0 NA 0
NA 0

rs3825016 APPLERA_RESEQUENCING 11 70.0767 64134646
reverse MIT

AGCCATCCACACACGGCTCCGTGTCGGCCTCGCTCCAGCTGGTGGCCGTGGCATTGGGGTCCAAGAGCTGCCACT
GTGGCTGGCGGAAGCGGCGGCACTG[A/
G]TGGGGCCTCTGGTTGGGGCCCGGCGGGATGGAAATAGCCAGGAGGGCCTCAGGACTCAAGCTCCCTAGGATGC
TGGCCTGAGCCGTGCTGTTGTCCAGGA A/G extended_map 0.268
0.204 0.029 0.199 93.4% 182 27.3% 154 80.4% 56
79.5% 78 NA 0 95.3% 64 96.4% 28 91.1% 90
95.0% 40 NA 0 31.6% 76 23.1% 78
80.4% 56 79.5% 78

rs620006 TSCAF 11 70.2334 64305791 forward MIT
TTTTACAACCTGAACTCACTCGAGGTTATTTATGTCTAAGTTTCTAACTAGAAACCCGGCCTCCTTCCTTGGACC
AATCCTGGGTTTCTCCAGAGCCCTT[A/
G]GCTGAACCTCAGTAACAGAGCCCTGAGGCTGACCTTTCCCCACTGGCATTCCTCTTGCCAGGCCTTGCCAGGC
CTTGAGGGACGGGGACAGTGCTGCTAC A/G 524 0.262 0.165
0.063 0.071 78.3% 322 8.0% 300 50.0% 58 32.5% 80
79.8% 124 74.2% 66 75.0% 40 80.4% 92
76.2% 42 6.8% 146 9.2% 76 9.0% 78 50.0% 58
32.5% 80

rs680273 AB_ASSAYS_ON_DEMAND 11 70.2418 64314995
forward MIT
ACAGTTTAACCTCCTCCCAAATTGCAGAAGTGAAAGGCAAAAGCTAGTATTCTAGAGGTTAGACTGGCCCGACTT
CTTCACCTCCAACAGGCATCGGCTA[C/
G]ATCAACTAAATTCTAATCCCAGTTATCCAGGAAGCAAAGAAGGTTTGTTAAAAATTCAACCTTTGGAGGAATT
GACTGGTGACCTGTAGACATATTATTA C/G extended_map 0.42
0.152 0.179 0.056 93.4% 198 9.0% 156 50.0% 58
31.2% 80 NA 0 90.9% 66 100.0% 40 92.4% 92
97.6% 42 NA 0 9.0% 78 9.0% 78
50.0% 58 31.2% 80

rs653955 AB_ASSAYS_ON_DEMAND 11 71.2823 65451845
reverse LGD
AGTGAAAGATCTTCCAAGATTATTATTAGAAAACCAAAAAGCAAGAAACGATACGGGATGTAGATAGGCTACCTT
CTGGGTGAAAAAATACGCAAGAAAC[A/
T]GGTTACAGTGGAGGGGAGGCTTCTCACTCTACCCCTTTTGTAGCTTTTGAATTTTAAAATATCTTAATGTATT
ACCTGGTCGAAAAAGAAATGCAATTAA A/T 823 0.244 0.000
0.383 0.071 68.2% 198 1.9% 154 1.7% 58 21.2% 80
NA 0 71.2% 66 72.5% 40 64.1% 92
50.0% 42 NA 0 1.3% 78 2.6% 76 1.7% 58
21.2% 80

rs4478996 AB_ASSAYS_ON_DEMAND 11 71.9701 66664918
forward LGD
AACACTTGGATCCTTTAAGCCATGCTTTCCTCGTAAGGTTTCCCTATTGGAGTTTTAAGAATTCAATTTTTGTTT
TTCTTAGCCAAAGAGAGCTTTATTA[A/
G]TAGTCTCACAGTATTAATAAAAATCTGAATTTGTGTTTGAAGAGTGGGCTATGAGGAAAGCGACAGAATTGTA

TGTAGTATGTGAAATTTGCTGACCTGA A/G 94 0.341 0.368
0.016 0.047 14.3% 196 93.4% 152 25.9% 58 75.0% 80
NA 0 9.1% 66 25.0% 40 13.3% 90
14.3% 42 NA 0 93.6% 78 93.2% 74 25.9% 58
75.0% 80

rs1638567 AB_ASSAYS_ON_DEMAND 11 72.0813 66900583
forward MIT
GCCTCCTCTAGCCCCACTTCCCCCAGAGGTTGCCCCTGCCTCAAGTGATAGTTCTCCATTTTATGCTCATTCTTT
CAAACATAGGTGTGTTTCTAAGCAC[C/
T]CAAGATGATGACAAGATTTCTAATCCTTACATTCTATCTGGAGATGATGGAGAGGAGGGTCTTCTCTTGCCCA
CTCTCCCGATCCTTGTGGGGACATGAG C/T extended_map 0.362
0.362 0.027 0.046 14.1% 170 95.3% 148 29.5% 44
78.6% 70 NA 0 8.9% 56 21.9% 32 14.6% 82
3.6% 28 NA 0 95.8% 72 94.7% 76
29.5% 44 78.6% 70
rs879784 AB_ASSAYS_ON_DEMAND 11 73.3369 68370610
reverse MIT
TGTAGGTGGGTGTGGGGCAGCTTGGAACTCAATGTGGACGAGAAGCAAGTTGCAGGACCGCGCACAGAGTAGGCA
GCATTTGTGTGTGCCTCGCACGTGT[A/
G]TGGTGGCACTGTATGCACTTGTAGATACTCAAATACGTAGGGAAAGATGAGCCCCGCATTCTGGGGACAGGGA
GAGGAGGTTGTATCTATTGCATCTTAG A/G 1,737 0.173 0.021
0.165 0.197 39.8% 304 95.3% 258 86.2% 58 51.2% 80
44.4% 108 39.4% 66 42.1% 38 33.7% 92
52.5% 40 97.2% 108 96.1% 76 91.9% 74 86.2% 58
51.2% 80
rs924743 TSCAF 11 77.4822 70479418 reverse MIT
CCCACGACTCCCCTGAGCCGGCACTTCAGGAGTTGTGGACATTGCTTGAGTCAGCCCTGGCTCTATCTGGTCAGC
CCTGTCAAGTTAGATGTAAAGTCCC[A/
G]GAGCAACCAGGGGCTTCTGGGTAATACACATCGATTTGCAAAGGCCCTGGCCCTGCATGGGGTTTTCGCAAAG
CCCCAGGGAGCTGTTCTGGAACGACAT A/G extended_map 0.132
0.056 0.421 0.007 75.0% 308 23.7% 266 3.4% 58
32.5% 80 77.3% 110 84.8% 66 77.5% 40 64.1% 92
90.5% 42 23.2% 112 24.4% 78 23.7% 76
3.4% 58 32.5% 80
rs732934 AB_ASSAYS_ON_DEMAND 11 77.8811 70912784
forward MIT
TGAGCACACAGCGGCCAGCTGCGTGAGGGAGGGCCCTGGGGGAGCTGTGAGTTACAGGTCGGAAGCGCCATTGCT
ATCCCGAAGCGACACAGATATGTGG[A/
G]TGCTCCGAGGAAGGAGATGACAGAGAACAAAGCTAAGAACCCTGCTTGGCACATTCCTCACCAGCAACTGAGC
TGCCGCTTGGAATGGGGTTCAGGACCT A/G 394 0.204 0.068
0.084 0.122 87.0% 330 26.5% 310 56.9% 58 67.5% 80
89.0% 136 96.9% 64 76.3% 38 81.5% 92
92.9% 42 29.2% 154 20.5% 78 26.9% 78 56.9% 58
67.5% 80
CV2130877 AB_ASSAYS_ON_DEMAND 11 78.3038 71465731

forward LGD
TCTACCTTCTTTCCCTATCAATGAGCTGTTACCTATGAACAGGTAGCTAAAGTGCTTGCTTCAGAGATATGAGTC
CCTGATACCAGTTCCTAACTGCCAC[A/
G]TATGGCACATAAACACCTTCAACACTTCAGTCTATCCTTGGCCTGGGGCAAACAATCTAATGTGCTTTTTCTT
AAAAAAAAAAAAAAAAAAAAAAAAAAA A/G 780 0.18 0.099
0.032 0.061 98.0% 198 53.4% 148 87.9% 58 81.2% 80
NA 0 100.0% 66 97.5% 40 96.7% 92
97.6% 42 NA 0 55.6% 72 51.3% 76 87.9% 58
81.2% 80
rs1473885 TSCAF 11 78.7162 72005249 forward MIT
GAATTTTCTCTTTGCATTGGTAGTGTTAAATTTATGAAATAATGCATCTGGTTGGAAGTTTGTCCTTATCTCCCA
TGATTGACACTCTCAGATCCCTTTA[A/
C]ATTTTAGGTCTTTCAATTTTTTAATATAGTATATTTATGTCCACTGTTTCTATAAATATTTCCTCCAATTTGT
TTATCCTTTCATCTGGGATATCTATTG A/C 1,244 0.117 NA NA
NA 14.7% 102 60.9% 110 NA 0 NA 0
14.7% 102 NA 0 NA 0 NA 0 NA
0 60.9% 110 NA 0 NA 0 NA 0
NA 0
CV1255960 AB_ASSAYS_ON_DEMAND 11 79.7895 72792287
forward LGD
CTTCTTACCAATAACCTCCATATTTAGTCCGCCATCAGCATCAAGCAGGTATTAGCCACCAGCTGTATGTCCTGC
CCTGAGCTGGGCTTTACTGTGGGTG[A/
G]GATGGGAGCACTTTTCATGGAGAGGGAGAACTTGTCCTAGGAGATCAGGAGAAGCCAGAGGCCAGGTGGCGTA
CCAGGCAGAGCTCTAGTCAGGGAAAGG A/G extended_map 0.156
0.013 0.345 0.004 39.7% 194 93.4% 152 100.0% 56
97.4% 78 NA 0 30.6% 62 40.0% 40 45.7% 92
47.6% 42 NA 0 94.7% 76 92.1% 76
100.0% 56 97.4% 78
rs876480 AB_ASSAYS_ON_DEMAND 11 79.8357 72812611
forward LGD
TGCCCCAGCCCTGGAGGTCTCCATTGACATATGAGGGTGCTGATGTCATGATCCTGACATCAATGACCTGTAGCT
CCTTATGCCCTTCCCCCACAACCTG[A/
G]GCATGACCCAGGGAAATGAAAACTCATCCCCTGCTCCCCTCCCCATGCGGTGTCCAGTTCGCCTCCTGGAATC
TCCTGGACCCTGGGGACCTGACCTTTT A/G extended_map 0.08
0.101 0.396 0.076 65.8% 196 25.0% 156 0.0% 58
2.5% 80 NA 0 74.2% 66 67.5% 40 58.9% 90
61.9% 42 NA 0 23.1% 78 26.9% 78
0.0% 58 2.5% 80
rs4604914 AB_ASSAYS_ON_DEMAND 11 82.7924 76364038
forward LGD
ATACCTCCAATGTTCGGTGCAATTCAGAGTGTTAGAGACGGTCTGGAAAAACGGTACATTGCTTCTTATTTAGCA
CTCACAGGTATGTATAACACTGTAT[C/
G]TGAAGAAATGTACAGTATTCAAATGGGCCATTTTTCTCATTCATTTCTAAAAGCAGTTTTCAATTTTGTGTTA
TTACATAACTTGAATATATTCTGAAAC C/G extended_map 0.19
0.163 0.016 0.025 13.1% 198 71.8% 156 24.1% 58
53.7% 80 NA 0 10.6% 66 2.5% 40 19.6% 92

17.5% 40 NA 0 73.1% 78 70.5% 78
24.1% 58 53.7% 80
rs3740767 AB_ASSAYS_ON_DEMAND 11 82.8803 76427914
forward LGD
TGCAGAGTAATTGGAGTCGGTTTTTCCCCCCTTCATAATGTACTTCATTCACATGTGTTTTTTCTAATATTTTGC
AGGTTTACCTTAAGGTAAAAGAGCC[A/
G]ATATTCCATCAGGTAATTTTTTGTAAATTATTACACATTAGATTGTTTACGATACATGGCTGCTTTGTGATTT
CCTTGTCTAAGAAATGATATGCAGATA A/G extended_map 0.199
0.150 0.025 0.021 85.7% 196 25.0% 156 70.7% 58
41.2% 80 NA 0 86.4% 66 100.0% 40 78.9% 90
81.0% 42 NA 0 23.1% 78 26.9% 78
70.7% 58 41.2% 80
rs948969 TSCAF 11 83.0818 76574343 reverse MIT
ATTGGGACAGGACCCAGACCTCAGACACAAGGAAGTGCTGGTGGTGAGCTTCCAGGCATTCTACCACGAGTTCAT
ATAACCGACCTTCACTGAGTACAGG[C/
T]TCAGACTAAAGTACAGAGGACACTGTTAACAAGACATGTCCTCAGAGCTCCCAGCCTGGTGTGGTGGACAGAC
CCAGGCACAGATAAGGATGGTACCACC C/T 1,575 0.111 0.052
0.034 0.055 27.2% 302 74.4% 242 48.3% 58 47.5% 80
22.6% 106 37.5% 64 25.0% 40 26.1% 92
16.7% 42 75.5% 94 73.0% 74 74.3% 74 48.3% 58
47.5% 80
rs644779 AB_ASSAYS_ON_DEMAND 11 83.84 78367059
reverse MIT
ACATTTTGCACCAAAATGACAGAGTCTGGAGGTGGTGAACTTTTGACACAAGAGAATAAATCCTTGAAGAGAAAA
TCTACAGCCACCTGAAGCTTGGCTT[A/
G]GCTGTATTTATGCAAGTGGACCCAGCCCCAGCAGGATATTAAAAACCATTATAACCAGGTTCCCTCTTTACCA
TCTCCCCCGGGGGCCCTGATCCTTAGC A/G 217 0.285 0.004
0.433 0.022 97.0% 198 33.3% 156 25.9% 58 17.5% 80
NA 0 100.0% 66 100.0% 40 93.5% 92
100.0% 40 NA 0 35.9% 78 30.8% 78 25.9% 58
17.5% 80
rs511903 TSCAF 11 85.1563 78677087 reverse MIT
TTATACCTGAGTGCCCAAGCCTCAGTTTTCTCATTCCTGGGATGGGGTAATGATGTTTAGCCCACAGGTCTAGGA
TGAGAACAAAACATGTAGAACACTC[A/
C]GCAGAGTGCCCCAGGAATAGTAGGTGCTGAATGAATGTCAATGATTAGTGATTATTAGTAGCAAACGACTGTT
AGTTTCTTTTGTTCTTCTTGAGCACAG A/C 1,450 0.137 0.017
0.113 0.014 32.6% 304 84.7% 262 72.4% 58 73.8% 80
41.1% 112 23.4% 64 26.3% 38 31.1% 90
30.0% 40 83.6% 110 87.2% 78 83.8% 74 72.4% 58
73.8% 80
rs956168 TSCAF 11 86.5199 79484975 reverse MIT
TGCAATTGGAATCTAGAACCTCATTGCTTAACTCCCAGCTATATTATCTTTCCAATATAAACTGTTACTCCCCTT
CTTGCATTTCCAATTTCAATTAACT[A/
G]TCCCCTCCTTATCTATTTTCTTTGCCATCTCGGGCTCATGCACATTGCAAAGATTGCCATATATGTCATCCAT
TGATTGATTGACTCTTGAAATATTCAT A/G 1,755 0.11 0.029
0.051 0.055 87.6% 306 45.0% 262 65.5% 58 72.5% 80

91.8% 110 95.5% 66 81.6% 38 79.3% 92
83.3% 42 44.5% 110 51.3% 76 39.5% 76 65.5% 58
72.5% 80
CV1471107 APPLERA_RESEQUENCING 11 89.0616 82176026
forward LGD
ATGTCAGGAATGTACATTCATAATGAAAGAAATAATTATGCATCTGTTTTTCTCTCCCTTCCCAAACCAATTTCC
TGTCATTCATTATTTTTTAAATCTC[A/
G]AATAAAGCAAATTAATTCCTGAATTTTACCACATGACTTATAAAGTATCATTATCATCATCACAATAGAGTGT
TACCTTACAAATTGTGCACCCTCACAA A/G 944 0.199 0.011
0.186 0.017 12.5% 192 72.4% 156 60.7% 56 57.7% 78
NA 0 11.3% 62 23.7% 38 8.7% 92
11.9% 42 NA 0 75.6% 78 69.2% 78 60.7% 56
57.7% 78
rs7928811 AB_ASSAYS_ON_DEMAND 11 89.6354 83542790
forward LGD
TAGTTTCATCATCTGTCAAATGGAGATAATGAGATGAATTCAAATGACACAGGCACCAGCAAGTGCTAAGCACAG
CACATGGGTGATGATCAAGCAATGT[G/
T]AGTTCAATTCCTTTGGTTTGATGCATAGCACTGTTTAAAGGGTCCTTACGAGTTTGAGGACAGTAAGGGAGAA
CAGATGTCAAACAATGTATTCTTTAAT G/T 560 0.255 0.005
0.403 0.004 95.4% 196 33.8% 154 25.9% 58 41.2% 80
NA 0 97.0% 66 100.0% 40 92.2% 90
97.6% 42 NA 0 32.1% 78 35.5% 76 25.9% 58
41.2% 80
rs905646 TSCAF 11 92.5114 88041955 forward MIT
ACAGAGAAATGAATGTTGTAATGAAGGTGCAGGTAGCTTTTTGGGAACATAGATCAAGTTTAATAAAACAAATGA
CTAGCTATTGATTTAGGGCTTGGGC[A/
G]GTGACTGGTGTTGTAGGGAAGAAAACAAATAGTCTATGAAAAGGGTGGAGTAACTGATGACATCACATAAATC
ATTCATCCTATGCCTAACACTATACTG A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 163 0.301 0.095 0.138
0.023 89.3% 328 16.2% 308 50.0% 56 31.2% 80
90.8% 130 89.4% 66 92.5% 40 85.9% 92 97.5% 40
16.2% 154 11.5% 78 21.1% 76 50.0% 56
31.2% 80
rs1042602 PARRA 11 92.6718 88599849 forward MIT
ATGAAAAATGGATCAACACCCATGTTTAACGACATCAATATTTATGACCTCTTTGTCTGGATGCATTATTATGTG
TCAATGGATGCACTGCTTGGGGGAT[A/
C]TGAAATCTGGAGAGACATTGATTTTGCCCATGAAGCACCAGCTTTTCTGCCTTGGCATAGACTCTTCTTGTTG
CGGTGGGAACAAGAAATCCAGAAGCTG A/C SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 1,728 0.18 0.132 0.015
0.193 99.7% 326 61.1% 280 96.4% 56 100.0% 78
100.0% 130 100.0% 66 100.0% 38 98.9% 92 100.0% 40
60.6% 132 63.5% 74 59.5% 74 96.4% 56
100.0% 78
rs7925520 AB_ASSAYS_ON_DEMAND 11 92.7588 88902396
reverse LGD
ATGACACCTAGGACAGAGATTTACCCTTTGATCTATTATTTCAGTGCTCACAAGGGTGCTTAATAAATGGCTGTT

TGATGATGAGGTTGTATGTTTGCTC[C/
G]TCAGTAGGAACATGTTACCTTCAGTCCTTTGGTTGACCTTTGGCTGCCTCCCTGATCCTCTGGAGAGAGGAAG
GCTATTTACTGCTATTTGCTATTGGCA C/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.17 0.013 0.147 0.107 85.9% 198 30.1% 156
43.1% 58 68.8% 80 NA 0 86.4% 66
90.0% 40 83.7% 92 92.9% 42 NA 0 35.9% 78
24.4% 78 43.1% 58 68.8% 80
CV25641413 APPLERA_RESEQUENCING 11 92.7617 88912479
reverse LGD
GGGGCCGGCGGCATGGCTGTGTCCTGGAGGAGCTGGCTCGCCAACGAAGGGGTTAAACACCTCTGCCTGGTAGGA
TGGCGGGCTAGGCTCTCCTTGCGTT[C/
T]TCTCTGTCCTGCAGTGATTTTGATTCATTCTCTGAGCGTGCACGGGTGGGAAGCTGGAAGTGGAAGTTTTGTC
TTAATTCGAACATTCTCAACTTACAAA C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps 1,495
0.175 0.015 0.146 0.128 13.1% 198 69.2% 156 55.2% 58
26.9% 78 NA 0 12.1% 66 10.0% 40
15.2% 92 7.1% 42 NA 0 64.1% 78 74.4% 78
55.2% 58 26.9% 78
rs2036126 TSCAF 11 93.9486 91490824 reverse MIT
TTCTTGAATTTAACATAGTGCTTTGCTGCATCACACAAGCTTACCACAATGGACAGTGAATTTCAAGAACCATTT
GTTATTCACTTTCATTTTTCTTTCA[A/
G]CCAGCAGAGTGCCCAGCATATATTATGTGTTTAATAAAAATTGGTCAAATTAAGCTAAACAGTTGCCGAGCTT
AGACACTGAATGATAACAACCTCAAAG A/G 1,245 0.173 0.001
0.261 0.014 11.4% 308 65.8% 260 69.0% 58 78.7% 80
5.5% 110 18.2% 66 12.5% 40 13.0% 92
23.8% 42 66.0% 106 61.5% 78 69.7% 76 69.0% 58
78.7% 80
rs989948 TSCAF 11 93.9738 91547358 forward MIT
GTGATTAAGAATGTGGACTTTCAAAATTAGTGAGATCTAAATGAAATTCTGGCTCCACCATTTAGAATATGACCT
GGTGTAAGGTACTCAACCTCCTTGA[A/
G]TCTCCACTGCACAGCTGTTAACAAGCCTAACACTTCCCACCTCTCACGGCTTGTTGAGAAGATTAAATGAAAT
AATTGAATGCTGAGCACTGTGATTGGC A/G extended_map 0.203
0.000 0.341 0.001 39.8% 176 98.7% 150 100.0% 52
100.0% 80 NA 0 38.7% 62 53.6% 28 36.0% 86
26.3% 38 NA 0 100.0% 72 97.4% 78
100.0% 52 100.0% 80
rs1944074 TSCAF 11 97.3599 95199598 forward MIT
ACTATTGTGCCATCCTGATTTCATAGCACAAGACCTTAAATCCTTCTGTAATTCTGTTAATATTCCTCTTTTCAC
TAAATGAACAACACATTTTAATATT[A/
C]CTCTTCATTTAACTGATGAAGTCCCAATAAGTACACTTACTTCCTACACAATGAGCTTTTAGACATCTATTGC
TAATTACTATTACTGACTACTACAGGA A/C extended_map 0.149 NA
NA NA 97.2% 106 55.6% 108 NA 0 NA
0 97.2% 106 NA 0 NA 0 NA 0

NA 0 55.6% 108 NA 0 NA 0 NA
0 NA 0
rs1150349 AB_ASSAYS_ON_DEMAND 11 97.41 95226931
forward MIT
ATTTGGTGAAGGAATAAATTATGTTAATAAATGGACAAGAATACTTTGGGTTGAGTAAGAGGACTCAATTCGTAA
AAGACGGCAGCTCTCCCTACCTAGT[A/
G]TATAGTTTAAATTAGTGTTTAGACAAAATGATTCTAAATAATTACTTGGAAATGTTTTAAGATTTATATAATA
TAGGTGACTGTTAGAATCAATGTTTAT A/G 639 0.196 0.041
0.139 0.011 31.8% 192 92.9% 156 75.9% 58 98.8% 80
NA 0 29.7% 64 17.5% 40 39.8% 88
26.3% 38 NA 0 93.6% 78 92.3% 78 75.9% 58
98.8% 80
rs590274 AB_ASSAYS_ON_DEMAND 11 97.7346 95403723
forward LGD
ACAGAGCTTTGGTTTTAGAAACAGAGCCTTCTTTAGAAACAGAGCAATGTGCTCAGCTGAAAAACCACATTCCCC
AAACTTCCTTGTCGATGGGGTGGGC[A/
G]GGAGGGTCCAGGTGAATATGTTCTGGCTAAGGGAATCAGATTTCTTTTCTTTCCTCTTCCTACCTGGAATACA
GGTATGAGACTAGTGATGTGGTAGCTA A/G extended_map 0.11
0.176 0.001 0.027 15.3% 196 59.6% 156 12.1% 58
40.0% 80 NA 0 17.2% 64 15.0% 40 14.1% 92
4.8% 42 NA 0 56.4% 78 62.8% 78
12.1% 58 40.0% 80
rs1377313 AB_ASSAYS_ON_DEMAND 11 99.5997 96235767
reverse MIT
CTGATGAGATCAAATGAAATTGTAGATTTAAGATGTAAGTGTGGCATAGAAAAAAGAAGATTAAATCACATTCAG
AAGAAAACAACATTTGGGAGAAGAC[A/
G]TCTAGAGACAAAAATTGTCAAAAGTTTATTGTAAGGCTATGAAAAATGAGCTTAAGAAAAGCAAAACAGATTA
TTACAATATATTGAAGGTTATTGTAAT A/G 1,882 0.058 0.134
0.392 0.087 89.9% 286 61.8% 262 19.0% 58 26.9% 78
88.7% 106 93.5% 62 97.1% 34 85.7% 84
83.3% 42 60.9% 110 64.5% 76 60.5% 76 19.0% 58
26.9% 78
rs923886 TSCAF 11 100.4542 96579414 reverse MIT

TTGAGTATAATGACTTAATAAAGAGGCCAAAATGTTTGGTCTACCATGTTTGGAACCTAAGTTTGAGATTACCAA
GATTAAACATAGAAGTAGTTATCAT[A/
G]CACTCCTAGTCTTATCTCTTCTAACTTGTTTTGTGGCCCATAATATTTTCAAGTTATTTTAAATTGCTATACT
TTATAATTTGAATTACATTGGGCTTTG A/G 413 0.197 0.102
0.626 0.003 14.3% 272 74.6% 228 100.0% 56 80.9% 68
14.1% 92 20.3% 64 3.1% 32 14.3% 84
13.2% 38 80.0% 90 68.1% 72 74.2% 66 100.0% 56
80.9% 68
rs1840054 AB_ASSAYS_ON_DEMAND 11 100.7187 96793229
forward MIT
AGTATGTATTTTTATCACTCCACCAACTGCTTTCTGTATATTATGAAAATTTATAATTACAAAATCTCAGTGGTC
CTTAAACCCCAAAGCACTTTCCACA[A/

C]TAATTGTGGTTGGTGCTTCTCATAATAAAATATAAAAAACCATGAAGATTTGAAAAGTTGAAGACTCACTTCA
AAAATAGTTACTTGAATGCTTGGGCAT A/C 927 0.176 0.049
0.449 0.097 95.9% 194 48.1% 154 22.4% 58 13.8% 80
NA 0 96.9% 64 95.0% 40 95.6% 90
89.5% 38 NA 0 47.4% 76 48.7% 78 22.4% 58
13.8% 80
rs505770 TSCAF 11 104.4951 102271927 reverse MIT

GCCCTAGCTGGGTCCAATATCCTGTTTCATGAGTCCTCCACTTGGAGTATGACTGGCTGTTGGTAGACGTTTTGG
GGGTATGATACCAAGGGCCCTCAAC[A/
T]TTTATGTCCTCAAATCACATCTCATCTTATTTTTTATTTGTTATTTTTTGATGAAAAAATAGAGATGAGGTCT
TGTGATGATGGCCAGGCTGATCTCAAA A/T 2,080 0.079 0.009
0.193 0.024 59.9% 304 94.4% 266 100.0% 58 83.3% 78
63.9% 108 57.8% 64 62.5% 40 55.4% 92
69.0% 42 96.4% 112 92.3% 78 93.4% 76 100.0% 58
83.3% 78
rs1939799 AB_ASSAYS_ON_DEMAND 11 106.6006 105504308
forward LGD
TGGCATGTTAAAATTGACACCTGTTATCTGAAGATGTTCTGACCCAGGTTACTCGTCCTTCTGTTTTTAAATCTC
AGCTTCACACTCCCTGCAAAAATAC[C/
T]TTTTGTTTTCATAGAGCTTTATAATTGTTGAAACATTTGCATATTCAGTACTTTTCATTTCCCTGGACAGAGC
CTGTTTAGGCAACAGTGGCATGTTGGG C/T 476 0.319 0.018
0.338 0.119 15.8% 196 92.8% 152 82.8% 58 58.8% 80
NA 0 18.8% 64 5.0% 40 18.5% 92
8.3% 36 NA 0 93.4% 76 92.1% 76 82.8% 58
58.8% 80
CV1559252 AB_ASSAYS_ON_DEMAND 11 106.6763 105661311
forward LGD
ATTTTTAGTTTTTCAACCTTGTAGGATACTATAAGAAGATTGGGATAGATACTGAGTGAGCCTCAGAAAATCAGC
TGGATACACCCCAGGCAAGTACTTG[G/
T]GCTAAGTGATAATTCAGATACTACAGAGAATTCAAAGATAAAGTAAGCCAGATTTTGTCAAGAGCACCTGTCT
GTAATCTAATAAAGGAGAAGAGACAAA G/T 38 0.407 0.001
0.558 0.008 98.5% 198 21.8% 156 17.9% 56 31.2% 80
NA 0 100.0% 66 100.0% 40 96.7% 92
97.6% 42 NA 0 23.1% 78 20.5% 78 17.9% 56
31.2% 80
rs593925 AB_ASSAYS_ON_DEMAND 11 107.5721 107029916
forward MIT
TTCTAGTATGATTAGGTAAATAAGGGCTTACAATTAGCAAAAATAACTACAAATTGGATTTTTAAGTCATTCATA
CTTGATTAATATCTTGGTCCACTAA[G/
T]TCATTTAGTGTGCATTCATTGCTAATAATGCAAGTATTTATTCCACTTTCATTCTCTCTTCATAGCAAATGTA
ATTAAGTAAGACATAACATCCCATTTT G/T 1,112 0.214 0.138
0.067 0.101 61.0% 182 0.7% 144 30.0% 50 23.6% 72
NA 0 65.5% 58 52.8% 36 61.4% 88
61.1% 36 NA 0 0.0% 74 1.4% 70 30.0% 50
23.6% 72

rs647756 APPLERA_RESEQUENCING 11 107.5959 107073475
forward MIT
GTTCAGCATCTTCCTCAGCATTCAGAATGATTTTGAATGTGATTAAGGATTTTTTTTTCTCCTGCATTCTTATCA
TTGTATTGTCTCCAACAGGCTATTT[A/
G]ATGCATGAATTTCATAAGTTTTGGATCGAAGAGGACCCCATGGACATAATGGAATTTAATCGTGTGAGGGAGA
AATTCCGCAAGAGGATCATCAAACAGC A/G extended_map 0.21
0.133 0.063 0.118 37.2% 172 98.0% 150 67.3% 52
69.7% 76 NA 0 21.7% 60 37.5% 24 47.7% 88
27.8% 36 NA 0 98.6% 72 97.4% 78
67.3% 52 69.7% 76
CV2896972 AB_ASSAYS_ON_DEMAND 11 108.2822 108329752
forward LGD
ATTTGGAAGATTGTATATACTAGAATTTTGACAGTGGTAATTGCTGTTGCTGCTAGCATTTGCATAGTAGCGCCA
GTAAAGTTTTTCTGTATTCTTCCAG[G/
T]TTGGCTACACACTGGAAGCATACAGCTTCCATCTGCTTATGCTTCTCATAAGCTGTATGATTACGTGCTAAGA
TCTTATGATGTCAGCTTTAGTGAGTCC G/T 1,453 0.176 0.007
0.315 0.064 92.9% 198 41.3% 150 31.0% 58 71.3% 80
NA 0 93.9% 66 87.5% 40 94.6% 92
92.9% 42 NA 0 40.8% 76 41.9% 74 31.0% 58
71.3% 80
rs734077 TSCAF 11 108.5314 108785774 forward MIT

GTGTTTACTCTCAGCCCTGTCTCATGTCAACACCCTCAACCTGATGTTCCAAAATGTTGGCTCAGCAGATAGGTA
CTCTAAACAAAATAAGGTACACAAT[A/
G]ATCCTTCCAAGCAAAGGTTTAAATCCCAGTGAGTGTAAAAATAATTAGAGATACAAATCTACGGATGTGGAGC
AGTTCTTTCCCACCCTGACCCATCACT A/G extended_map 0.152 NA
NA NA 58.2% 110 5.4% 112 NA 0 NA
0 58.2% 110 NA 0 NA 0 NA 0
NA 0 5.4% 112 NA 0 NA 0 NA
0 NA 0
rs734078 TSCAF 11 108.5314 108785836 forward MIT

CAGCAGATAGGTACTCTAAACAAAATAAGGTACACAATGATCCTTCCAAGCAAAGGTTTAAATCCCAGTGAGTGT
AAAAATAATTAGAGATACAAATCTA[C/
T]GGATGTGGAGCAGTTCTTTCCCACCCTGACCCATCACTTGTCTTGGCCAAGGGCACAGGCCTTTATCCTGAGC
ACGAAGCAACATCGCACACCACAACAC C/T 1,799 0.126 0.013
0.127 0.022 48.3% 302 94.7% 264 87.9% 58 84.6% 78
41.8% 110 59.1% 66 58.3% 36 44.4% 90
50.0% 42 94.5% 110 97.4% 78 92.1% 76 87.9% 58
84.6% 78
rs1685393 AB_ASSAYS_ON_DEMAND 11 108.6954 109085966
forward LGD
AGAAGAAAAGAAAGATTATAATATAACCAAATAAACCTTTAAAAGATCAAAAAATAGTTGAAGAGGAATTATGTG
TACCTGAGTAAGTCAAGGTAAGGTC[A/
T]TGTGGGGATAAACTGATTTGAGCATGCAGCTTCAGCTCAGCTAGGTTGCAGATATCTGTGCCCCTTTAAGTGG
TCAAGGAAGCATACCCAATAAAGACTC A/T extended_map 0.144

```
0.002   0.254   0.003   27.3%   194     81.2%   154     85.7%   56
76.2%   80      NA      0       29.7%   64      35.0%   40      22.2%   90
        35.7%   42      NA      0       79.5%   78      82.9%   76
85.7%   56      76.2%   80
rs326946        TSCAF   11      109.5212        110036902       reverse MIT

CATTGGGAATATTTAAAAGTGCGAATGATCTAAGTTATTTTTTGACATAAATCCAAAACCCCTGAGATAGAACAT
AGATATTTGAGATGATGATGATGAT[G/
T]ATTATTATTATTAAATCCTGCCACTTTGCAAAAATTTTGACCACCATTTTTTAGGAAATTGATTACATGATCA
TTCTCATAGCAGTTAGTTAGTTATATT      G/T             1,938   0.117   0.051
0.378   0.002   36.2%   290     84.5%   258     100.0%  58      88.7%   80
        33.6%   110     34.5%   58      38.9%   36      39.5%   86
55.6%   36      80.9%   110     87.8%   74      86.5%   74      100.0%  58
        88.7%   80
rs1469170       TSCAF   11      109.6327        110278663       reverse MIT

GTAGAGAGAATGAGTGAATTGGGACAAAGGAGAAAGCAGCAAAAGTTCACTGAGTCCATGGAAGGTGGAAATGGA
CAAAACACCCAAACTTCATATCCAG[C/
T]ATGGTTTGGTTTTGTATCACCCCTGCCTGCTACTCACAGTCATTCCTTTCATTCCTACATACGTGGAAGTAAA
TTTGTTATGGACCTTAATGTCTCCTAA      C/T             extended_map    0.088
0.017   0.054   0.048   75.0%   304     33.2%   262     48.3%   58
59.0%   78      75.0%   112     82.3%   62      73.7%   38      70.7%   92
        69.0%   42      33.0%   112     29.7%   74      36.8%   76
48.3%   58      59.0%   78
rs238935        AB_ASSAYS_ON_DEMAND     11      114.0047        113504077
        reverse MIT
CCCATGGGCACTTCAGAGACCTTGTCAACACGGCACCCAAGCATGCTAGGGTGAAAGGGATTTAGGGTTTACTCT
CCTAACCCCCTAGGCCTGAGCCTCG[A/
C]AGTTGTTTAAAAAGACCCTGCCTTGGTGACTAAAAGTATGAGAAAGTGGGCGAGTGAAGAAGGTCTTCTTGCA
AAGGTCCCAATTCTGCCTTGTTTGCAT     A/C             359     0.214   0.061
0.099   0.024   88.1%   194     26.3%   156     55.2%   58      43.8%   80
        NA      0       89.1%   64      90.0%   40      86.7%   90
71.1%   38      NA      0       33.3%   78      19.2%   78      55.2%   58
        43.8%   80
rs2852425       AB_ASSAYS_ON_DEMAND     11      114.7357        113720159
        forward LGD
AATAATAATAACCTATAAATACTAATAAATGAGCCAGTATAGTATAAGTGAGTACTATACTAAGCAGTGAAGGAA
GAATAATTTCATGGAGGGAAGTCCA[C/
T]GGTAGAAGCAGGCTGCTAGGTATTATTATCGTTTTCACATACTATTCACTTTATGAAGAGATTTAACATAGCT
CAGGGTAATATGGTCTCATTCAAATGC     C/T             1,939   0.074   0.022
0.223   0.014   35.6%   194     74.7%   154     89.3%   56      86.3%   80
        NA      0       37.5%   64      36.8%   38      33.7%   92
19.0%   42      NA      0       79.5%   78      69.7%   76      89.3%   56
        86.3%   80
rs578014        AB_ASSAYS_ON_DEMAND     11      114.9802        113948314
        forward MIT
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TCAGAAATCAGAAAATTATATTTCGTAAATTGTATCAAGAAAATGGTTTCACTATATTGAAAAAAACCCAAAGAT
TCCTATCACACACTACATACTAAAG[G/
T]TCCAAATGCATTAAAGACCTTAATACGAATATTGTAACTAAAAGTTCAATATAAAGACATTTATAATTTCCTT
ATGACCTCACATCAGTAAGTATTTCTT G/T 1,270 0.13 0.003
0.129 0.011 6.0% 168 47.6% 126 40.7% 54 35.3% 68
NA 0 1.9% 54 6.2% 32 8.5% 82
5.0% 40 NA 0 41.4% 58 52.9% 68 40.7% 54
35.3% 68
rs7104113 AB_ASSAYS_ON_DEMAND 11 116.1226 114707909
forward LGD
AACCATCATTAAAGATTAAACATCAGTAACTCAATAAATTCTAGAAATAACAGCTGAAAATGCATGAGAATGGCA
AGACCAGACACCAATACGCATCATG[A/
G]TGGAAAGATGTTTAAAAGGTATGTCCTGTAAATTAGGAGATATTTATATAGTATATAGAATCTCAAAGTTGCA
CTGCTTTATTATTTTGAAATCCATTCT A/G 1,485 0.186 0.009
0.175 0.283 9.1% 198 64.5% 152 53.7% 54 6.2% 80
NA 0 9.1% 66 5.0% 40 10.9% 92
5.0% 40 NA 0 63.2% 76 65.8% 76 53.7% 54
6.2% 80
rs905247 TSCAF 11 116.46 115084610 reverse MIT
GCGGATGACAGGGAAGAGGAAGGTTTGTGGGGCACAGAGGTGGGAAGCTGGGCAGTGCATCTCAGGATGCAAGAG
GGTTCTGGGGAAATCAAGTGTTTGT[A/
G]TGAATTCCACAAGAACAGCTTTATGTCTATGTTCCTCAAGCAGGAGAAAGATCAACAGCTCCAGGTGTGACTC
CAGGACAGATATCCTCAGTCTTACTGT A/G 1,741 0.15 NA NA
NA 90.0% 90 39.6% 96 NA 0 NA 0
90.0% 90 NA 0 NA 0 NA 0 NA
0 39.6% 96 NA 0 NA 0 NA 0
NA 0
rs1729410 AB_ASSAYS_ON_DEMAND 11 117.688 116203313
forward LGD
GGTCTATTTGCTTAATGGCTAAGAAGCCTCCTAAGAGAAAATTCATTTGAAAGGAAAAAAAGCAACAGGAGCTAC
CATCCAGTCACAAAACCACAGTCAT[C/
G]AAAAGAGAAGAGAGACTCAGAGTATTTGGGAAGGGAACATTTCCAGGGGTTGAAAAAATGTGGGAGTGGAGAG
CCACTGAAATTGACTTTGGGTGATTAC C/G 2,136 0.095 0.014
0.063 0.010 12.6% 198 52.0% 152 37.9% 58 40.0% 80
NA 0 15.2% 66 5.0% 40 14.1% 92
2.4% 42 NA 0 56.6% 76 47.4% 76 37.9% 58
40.0% 80
rs484646 AB_ASSAYS_ON_DEMAND 11 117.8306 116270508
forward LGD
TTGTTGTTCACCAGAAGGTCTGATTACCTTTACTCAAACATGTCAACCATAAACAGACCTCAAATCCACTTTGCA
CTGAGTGGTCTCCTCCAAAATGCAC[A/
G]GGCAAATCAGCCTGAAAGCAAACTCCAAACAAGTTGGAGAAAGCAAAGAGTGAGGGCCTACTTGAATTTGTTG
CTGGAGAATTTGATGGTGCTGCTCCTG A/G extended_map 0.231
0.077 0.085 0.155 4.6% 196 62.5% 152 29.3% 58
17.1% 76 NA 0 6.1% 66 5.0% 40 3.3% 90
4.8% 42 NA 0 59.2% 76 65.8% 76

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29.3%   58      17.1%   76
rs518181        TSCAF   11      117.9153        116310439       reverse MIT

ATTCTTCTAGCCATGATTCTTCTAGAGTTTGTTATCCAGTCATTCCAGTGCCAGAATCCATCAGGCAGAACAGAA
TCATTCGCATTTCTCCTCTGCACTG[G/
T]AGAGAAGAGGAAGGCTGATCATGGAAAAGGACCTGGTGAAGGTTTTTTGCAAATCTAAGGATCTTTTTTCTGT
CTTTTATTTTTGCAAACCTAAGGATCT     G/T             1,034   0.23    0.088
0.075   0.148   5.4%    294     63.9%   266     28.6%   56      19.2%   78
        5.8%    104     7.8%    64      5.3%    38      3.4%    88
4.8%    42      65.2%   112     56.4%   78      69.7%   76      28.6%   56
        19.2%   78
rs1446105       AB_ASSAYS_ON_DEMAND     11      117.9699        116336196
        forward LGD
CACATGAAGATAAGTATCAGAAATATTTCCTGTGTTAAAGAGGAGGTAAAAAAGCAAGGCCCCAATATTAAATCA
TTTAAGGAAAGGGTGGACAGAAATT[C/
T]GTCACTGCTAGGGGGAGAAAACTCCTCGACAGAGCACTCTGTTTAGGTTACTATCTTTCTGCTTTCTCAAAGT
TCTTCGATTTGACATAAAAACACACTT     C/T             extended_map    0.204
0.102   0.049   0.162   8.1%    198     65.6%   154     27.6%   58
18.8%   80      NA      0       9.1%    66      5.0%    40      8.7%    92
        2.4%    42      NA      0       60.3%   78      71.1%   76
27.6%   58      18.8%   80
rs723955        TSCAF   11      118.2384        116462694       forward MIT

CTTATTAGCAGGGAGTGCTTGAGGGGACAACCCTCTAAGCAAAAAGAAGGCAGGTACAGCAACAGCAGGTCAGGG
ACAAAGGTATGAGATTTAGAGTACA[A/
G]GGTGCAGTCACAGAACAGTCAGTAGTCTGCATATACTGTAGGACCCATGGGTCCCAGAACAAGAGGGGAGGCT
CTAAAGATGACTGTGGTGTAGTGGGCC     A/G             extended_map    0.123   NA
        NA      NA      31.3%   134     81.4%   156     NA      0       NA
        0       31.3%   134     NA      0       NA      0       NA      0
        NA      0       81.4%   156     NA      0       NA      0       NA
        0       NA      0
rs8521  TSCAF   11      118.5411        116605351       reverse MIT
CCTGGGTCCTAGAGCGAGGCTAGGACTGGGCACGTAGAGGGAAACAGCACATCCCTTCCTGAAGCCCCTTTCTAA
GGTAGGCACTGGGGTGCCCACAGCT[A/
G]TGGAGGCAGAACGGGCTGAACTCTGTATCATCCCTCCTTTGCCCCTGGACATTCTTGGGCAGTGTCAATGGCA
CTGAAAGGCCACCAGCTGGGGTTTGGC     A/G             1,869   0.129   NA      NA
        NA      73.7%   114     22.3%   112     NA      0       NA      0
        73.7%   114     NA      0       NA      0       NA      0       NA
        0       22.3%   112     NA      0       NA      0       NA      0
        NA      0
rs4938424       TSCAF   11      119.4952        117055018       forward MIT

TCTACTATGTGCACCTGCCAAAGTGTTAACAGATTAATGAGTGTGTGGGAGTCCCTCAGACCAGCTCAGACAGCC
AACTGTGCATTTCTTCCCAATCCCA[C/
T]GGTTAGTGACATCGTGTTGGTAGCTTGCAATTGGCCATGGTAGAAGTAATTACACCACGGAAATCAGTCCGCA
AACACTACCAGTCAATCAGGGCTTTCC     C/T             561     0.258   0.052
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0.583 0.030 97.1% 308 38.3% 264 13.8% 58 59.0% 78
96.5% 114 93.9% 66 100.0% 38 98.9% 90
100.0% 42 31.2% 112 43.4% 76 43.4% 76 13.8% 58
59.0% 78
rs624328 TSCAF 11 120.4432 117572739 forward MIT

AAATGAAATCTGCAAGCTGCAGAAATGTATACAACCACTCTTGGTCTCAGCTGGCATGAGGTGCCCGCCACCCAC
CTCTCTGCCCCCAGCTGGCTGGCTC[A/
G]AGGATGGGCAGCGTCCATCTGCTGCAGGCATCCTGGCGGCTTAGCCCACCCGCATTGGCAGTGTGTTGATTGG
CAGTTAGGTACTGAGCTGATGAGTTTA A/G 135 0.323 0.000
0.511 0.002 80.5% 308 3.8% 266 1.9% 54 1.3% 80
81.6% 114 81.2% 64 65.8% 38 84.8% 92
86.8% 38 1.8% 112 1.3% 76 9.0% 78 1.9% 54
1.3% 80
rs678957 AB_ASSAYS_ON_DEMAND 11 120.4485 117588507
forward LGD
TCAGGGCAGAAACTTCGTCAGCAGACGGTGAATGACTGTACAGGGGCACACCTGAGTGAATTAATGAATCTGGAG
AGCTAAGGGAGGAAAGTAGACACTG[C/
T]GGAGGAAATGAAATCCTTCCAAGGCCTCTCAAGCTGTTCTGGGCTGGGGAGGAGCAAGGGGGCCAGGGATTTG
AGGCAGAGTTGCCAGAAGGCAGAAGGG C/T extended_map 0.26
0.005 0.474 0.032 73.5% 196 3.9% 154 0.0% 58
16.3% 80 NA 0 71.2% 66 75.0% 40 74.4% 90
75.0% 40 NA 0 2.6% 78 5.3% 76
0.0% 58 16.3% 80
rs1320649 AB_ASSAYS_ON_DEMAND 11 123.8215 120214953
forward MIT
CTGGGGCCCTGGACAACTGCCCTAACCCTACACCTGTCACCCTGTGGCCAGGGACTCTGCTTCAGGGGGATGAAA
GAGACCCTAGTGATGATATCTTTGA[C/
T]TGTGGAAAGCAGAGGCTCTGATTGAAGCTGGGGCTGTAGCACTCCAACAGGGCACAGTTGTGCCTTACTTTGA
GTAACAGGGATTTCAGAAAGCTCTGTC C/T 826 0.228 0.009
0.445 0.002 70.7% 198 5.2% 154 0.0% 58 2.5% 80
NA 0 80.3% 66 60.0% 40 68.5% 92
69.0% 42 NA 0 5.1% 78 5.3% 76 0.0% 58
2.5% 80
rs620778 TSCAF 11 124.397 120547452 reverse MIT
ACTGGGATTTAGGTTTGTGGTGTGCAAGCAAGGGAAGAGGACGACACAGTGAAATTGCTTCCTTGGATGATAAAA
AGGCAGACTTCCAATAAACATGAAA[A/
G]ATAATTCAAGAGGCTTGGGAATCTCTCTTTGTCAGAGAAGAAAGTTGAGGAAATCCCGAGGCAGGAAAAGAAG
TCAGTATAGTTGCCCAGGGAACTCTTT A/G 1,280 0.172 0.060
0.500 0.087 20.7% 324 78.5% 302 98.2% 56 100.0% 74
23.5% 132 6.5% 62 28.9% 38 22.8% 92
30.0% 40 79.5% 156 71.6% 74 83.3% 72 98.2% 56
100.0% 74
rs489985 APPLERA_RESEQUENCING 11 124.4341 120575182
reverse MIT
GTTGCACATGCCTATTGCTGTTTTCTAAGGAGCATATTTCTAAGCAGATCACCCTGAAGTTGGTTTTCAGGACAA

TAAATGTGCAAACACTCGAAGCTGT[C/
T]GCTGCCTCTGCCAGGTGCTCTTTCCTGCTGCTTTTCTCACCTGCACAATGTTTCCACAATTCCCTTTGGTGTT
GTTGATCTGAAAGGAGATAAAATCTTC C/T extended_map 0.089
0.068 0.358 0.098 65.9% 176 23.0% 148 1.8% 56
0.0% 80 NA 0 78.1% 64 46.2% 26 62.8% 86
52.6% 38 NA 0 28.9% 76 16.7% 72
1.8% 56 0.0% 80
rs891436 TSCAF 11 124.6626 120745962 forward MIT

CATTTTGGTTTAGAAGATCTACTCCTAACCCTGCTGCCAGCAACAGAACATAAGGAGAAGAAGGAAGCTCTTGTT
GAAAGGCAGTTGAGGAGTAGGAAAA[A/
G]AGTCTTACAGAAATGAATCATCTCCACAGGACATCTGAGCATCTGTTCATTGCCCAGCACTTTCTGAACTAGT
CTGGACCAGAGAAGAGGCATCTGTGAC A/G 1,743 0.117 0.000
0.187 0.019 36.8% 296 84.9% 258 86.5% 52 71.8% 78
36.4% 110 37.9% 58 28.9% 38 40.0% 90
45.0% 40 84.5% 110 82.9% 76 87.5% 72 86.5% 52
71.8% 78
rs582446 AB_ASSAYS_ON_DEMAND 11 124.8225 120865511
forward LGD
GGGGCCTTGGGTTGGCTCAATAAGGGACGTGACCTTGAAAAGCTCTTCCTGGTTCCACTTGGCGTCTTTTCTTAG
GGAGCTCTGTGCCCAGTCTCTGGCC[A/
G]CTTTTAGTTCATAAATAGCTTGCATGGTTAGAGGCACAGAAGGTGGAGGCTTTGCGAGGGGGAAGGAATGGAG
GAAAGGGGTTGGTGAGAAGAGTAAGGA A/G 2,006 0.07 0.002
0.082 0.006 52.0% 198 15.4% 156 19.0% 58 8.7% 80
NA 0 47.0% 66 52.5% 40 55.4% 92
61.9% 42 NA 0 9.0% 78 21.8% 78 19.0% 58
8.7% 80
rs640479 AB_ASSAYS_ON_DEMAND 11 124.9624 120970135
forward MIT
GTGAGACCCTGTCACCGAAAAAAAAAAAAAAAAAGGCTGGGGGAGATCTGTGTTGGTGAGTAGAACACAGACCTG
GACCTGTGCATGGGCGGCTGTGACT[C/
G]TCCCTTTGGCCATGGCCAGTTGTCGCCTCTCTGCTCCTTTCTGTTTGCCTTTGGGATTTTCTCTTGCTGTCCT
TTGGTTGTGAGCAGGATACTTCCAGGA C/G extended_map 0.146
0.109 0.015 0.147 91.8% 184 44.8% 154 82.8% 58
87.5% 80 NA 0 96.9% 64 86.7% 30 90.0% 90
97.5% 40 NA 0 43.4% 76 46.2% 78
82.8% 58 87.5% 80
rs1942662 AB_ASSAYS_ON_DEMAND 11 131.1072 124070152
forward LGD
TATTAACTGGGTATTTACACTTAGCCTCAATCCAGGCAACGTGGCTGGTGAAGAAAACTACCTTCACCAGAGGTT
CTAAAACACTCTGCTACCCAGTAAT[A/
T]AAAAGATAATGCCAAACTATTTAGGCCAAACATAGCAATACCATCCTGCTACAGCCAGAGGATGCACTCCCTC
TAGGGCCTAAGGAATCGAGAGAACTAG A/T extended_map 0.257
0.001 0.439 0.007 26.0% 196 95.4% 152 98.2% 56
90.8% 76 NA 0 37.9% 66 10.5% 38 23.9% 92
16.7% 42 NA 0 94.6% 74 96.2% 78

98.2%	56	90.8%	76
rs1940171	AB_ASSAYS_ON_DEMAND	11	131.305	124171292
forward MIT
CCCCATATGCCCTCTCAGCTGCTTCTTTCTAGTGTGACCTGCCTGGCTCCTCTTCAAATACCTGCCATGCAGTGG
CTTTGAGAAATGCCTATGCAAACAC[A/
G]AAACTGCTCATGCAAACCCTAGAATCTAGTACTTGGCAGCTCAGTGGAGGCACAGACAACAGGAAGAGATACC
TGCCAGTCTCACACTCTTGTGTAGGGA	A/G	273	0.251	0.028
0.545	0.003	85.2%	310	16.8%	262	3.4%	58	11.3%	80
86.6%	112	80.3%	66	90.0%	40	84.8%	92
90.0%	40	19.4%	108	17.9%	78	11.8%	76	3.4%	58
11.3%	80
rs744502	AB_ASSAYS_ON_DEMAND	11	131.7663	124755228
forward MIT
TGGGTGCCCAGGACTGCCCATCCCATTTCCTAAAGGGGTGTGCTTTTATGACTTTGCATCCACTGATCCTGCCTC
GGTGGCTCCTGGGCTCTCTAAAATG[A/
G]CATTTTAGTTTCTTCTGATGATATCAGAGACACAAATGATTTCTTCTTGGATGTCATTGTGGGGTCAAGTGTT
GCAATAGAATTTTTCCCTCCTAGATGT	A/G	691	0.198	0.002
0.357	0.007	65.0%	200	4.7%	192	0.0%	30	8.7%	46
53.9%	102	72.5%	40	79.2%	24	79.4%	34
73.3%	30	1.9%	104	4.8%	42	10.9%	46	0.0%	30
8.7%	46
rs7946318	APPLERA_RESEQUENCING	11	135.0962	126305451
forward LGD
TGATCCTCTGATAAGATGGCACTTGTGGGTTACTTTGACAGAAATGTTAAACTAAGTAAGTCTGCACATATCCAC
TGATGTATGGCACCTCGAGTTGCTG[C/
T]TGGGACTGCAGAGGACACATCATTCTGCCTCTGCTTGGGAAGGGGGAGTGGGTGGGAGCTTGGACTGTCCACA
CTGGTCTAGCACTATTGTGTCACTGAA	C/T	extended_map	0.139
0.101	0.019	0.006	81.1%	196	29.5%	156	67.2%	58
21.2%	80	NA	0	80.3%	66	77.5%	40	83.3%	90
69.0%	42	NA	0	34.6%	78	24.4%	78
67.2%	58	21.2%	80
rs1894223	AB_ASSAYS_ON_DEMAND	11	135.1054	126307720
forward LGD
TCACTTCCTCTGCTCTCCAAATCAATTGTTTTGCACAATGGAGACACACTCCTTGGGTCAGGAAACTAAATGTGA
GTGTATCTGTTCCCATGTGTGTAAA[C/
T]ATACAGCTCTCATGTGCCTAATTTATAGCAAGTCACCTACTACTAGAACATCGGCCCTTCAGTTTTGGATCAC
TTGAATTATTCAAACCAAAGACGCCTT	C/T	1,081	0.152	0.098
0.026	0.006	16.7%	198	70.1%	154	32.8%	58	78.7%	80
NA	0	19.7%	66	12.5%	40	16.3%	92
28.6%	42	NA	0	65.4%	78	75.0%	76	32.8%	58
78.7%	80
rs959354	TSCAF	11	141.5911	129547233	reverse MIT

TGCTCATATCCTAAGTGGCTATTAGAAGATAAACAGGAAGCGTGCATTCCACCTATAGGAAGCATTCTAATATCA
GCATGGAAGGCACCTTTCTCTAAAC[A/
G]GAGCAGCAAGAACAGCAACTCTCCTCTCACCAAGGTCAGACACTGCCTGAGCAACATCACTCGAGTGTGGCGC

TCCGAAGGATAGTATCCAAATACGCAG A/G 230 0.276 NA NA
NA 82.0% 128 9.5% 148 NA 0 NA 0
82.0% 128 NA 0 NA 0 NA 0 NA
0 9.5% 148 NA 0 NA 0 NA 0
NA 0
rs318980 APPLERA_RESEQUENCING 11 145.3916 130948453
forward MIT
TGCTCATTACCTCTAGAATTGCATTTTCTAGCTTCTCATTAGGAAGCGGTGACATCAGAATAGGACCCTGCCCCT
TTAAGAGTCTTTCCCAAGATAATGG[A/
G]ATTCATGATCTCACAATCACATAAATCACTGCCAGCCCCCTTGAGTCAATTCATACTTCTGTAGTTCGTTAGT
GGCACGAGAGGAAATTGCATTTATTAT A/G 974 0.169 0.017
0.375 0.000 78.3% 198 20.5% 156 8.6% 58 18.4% 76
NA 0 75.8% 66 82.5% 40 78.3% 92
83.3% 42 NA 0 19.2% 78 21.8% 78 8.6% 58
18.4% 76
rs882584 AB_ASSAYS_ON_DEMAND 11 147.7767 131766722
reverse MIT
AAAGCCTTCCGAAATTTGAATCTCTACTGTTTGCTCTCACCCCCTTGTACTTTTACTTCTGCTATGTCTTGGCCA
ACCAAAGTGACTTACAGTGTTTCAA[A/
C]TGGATATGGCTGTGTCTAGTCCCTGTGAGTTTGTCTATCGTGTTCTTCTTCCCTGGCATGTCCTTTCCTGCTT
TACCTATAGAATAACCATTCATCATTT A/C extended_map 0.072
0.012 0.049 0.005 32.4% 306 70.8% 260 58.6% 58
78.7% 80 30.9% 110 30.3% 66 34.2% 38 34.8% 92
33.3% 42 72.3% 112 65.3% 72 73.7% 76
58.6% 58 78.7% 80
rs1940024 APPLERA_RESEQUENCING 11 147.9371 131843805
forward MIT
TTCTGAAACATTGAAGAAAGTCAGAGTGGACATGCGGCCTTTGTTTTCAATCCTCATTCCATCCAGACCAGTGGC
TAACCTGCAAGAGGGAAGACATTGC[C/
T]ATCAATTCATTCTACAAAGAGGCCCTCCTCCTCACCAAACTCTTTTCTCCAACTAATCTCGTCCTTCAAACTC
AAACCCTAAGCACTTCAGTGTCCAACA C/T 547 0.17 0.011
0.148 0.001 10.4% 164 64.0% 150 51.7% 58 67.1% 76
NA 0 3.3% 60 23.1% 26 11.5% 78
13.9% 36 NA 0 58.3% 72 69.2% 78 51.7% 58
67.1% 76
rs6590662 AB_ASSAYS_ON_DEMAND 11 149.1832 132319506
forward LGD
GTTGGAGCACTCTTTGCTGTCACCCAGGGACACACAGGAGCTTAGATTCAGAATGCACAGAGCTGGAAGCATCAG
GTGAGTTATCCCTTTGTTCCTCTTC[A/
G]GGACACAGGAAATGGAGGAAGTAGAGGTTAATCATCTTGAAAATTTGGAACTAATTGAGACGCATCAGTGAGA
TTCTGGGTATTAAGCTCTGGGACCATT A/G 1,177 0.123 0.000
0.186 0.029 65.5% 194 15.8% 152 15.5% 58 32.9% 76
NA 0 65.6% 64 77.5% 40 60.0% 90
71.4% 42 NA 0 14.1% 78 17.6% 74 15.5% 58
32.9% 76
rs470713 AB_ASSAYS_ON_DEMAND 11 152.45 133535550

forward LGD
CTGGGCTCTTCTTACTCCTCTCTGCACTGGATGTCCAGACAGACATGCCTTTCTTGTTGGGAACCAAGTGCCTCT
AAGAAAGCACATATTGACCCCCACT[A/
G]TGAATCAAACAGTGGTTTTTTTGTTTATAAAAGTGAAATCAGTCTTTGGGGTGTTGCTTACAGTTTAAAAAAA
AAAGGAAAAGAAAGAAAAAAGAAAGGT A/G 713 0.17 0.001
0.265 0.013 83.7% 196 27.0% 152 24.1% 58 39.7% 78
NA 0 87.9% 66 85.0% 40 80.0% 90
92.5% 40 NA 0 26.3% 76 27.6% 76 24.1% 58
39.7% 78
rs1144214 APPLERA_RESEQUENCING 11 152.599 133721793
reverse MIT
CAGGTGGCAGAGCGGAGCCTGGAAGAAAGGCCAAGCCATGGGGGAGAAGAAGTCCCCTTCCCAACCCAGTTCCCA
GTACCCACCCCAGGTGGCGTGGGCC[A/
G]AGCCTAAGGTTCTGTTTCAATGAGATAGAGTAGACTAGATGCGTTAAGATCAGAATCAGGACACTTGTTCCAG
GGCCCTAGTTCTGACGCCGAAGTACCC A/G 1,435 0.12 0.126
0.001 0.004 98.5% 198 66.4% 152 98.3% 58 73.8% 80
NA 0 100.0% 66 100.0% 40 96.7% 92
100.0% 42 NA 0 71.6% 74 61.5% 78 98.3% 58
73.8% 80
rs124440 RANDOM 12 0 202923 reverse MIT
GAGGGAGACGGAGCTTGTCAGCTTGACAGTATCAATGACAGCCCTTATCCTGATCCTTTCCNCAAAGAGTACACT
CTATGTCTTGGGCTTNGTGGCCAGT[C/
G]CCTAAGTGTTCTCAGATGTAATCTAACAATAGCTGTCTTATTTCATCTATATTCTGTCCCAAAAAATAATAAA
AATAATTAGCGTCTCATATCCGCCTCA C/G 340 0.222 0.058
0.121 0.084 18.0% 294 83.1% 254 57.4% 54 51.2% 80
19.6% 112 20.0% 60 17.6% 34 14.8% 88
15.8% 38 85.5% 110 82.4% 74 80.0% 70 57.4% 54
51.2% 80
G3555a24 RANDOM 12 0 203121 reverse MIT
ACCTCCAGGGATGGGTGAGGAGCCATTTGGCTCCACAGTAAGTGAAGAGGTATGTGGAGCATTGGATTGGGNGAA
GCTGACTCTCCAGCAAGATCTGGTG[A/
G]TTTCCCAGGCAGCTGAACCAAGTTCTATGTACAAACTTCAAAGCGAGAAAGGGAGGCCTGGGGCTGGGTGACA
TTCTGTGGCATCTCAAGGGAGAAGGAG A/G extended_map 0.174
0.034 0.108 0.000 18.1% 166 76.0% 150 55.4% 56
75.0% 80 NA 0 21.7% 60 6.2% 16 17.8% 90
5.3% 38 NA 0 75.6% 78 76.4% 72
55.4% 56 75.0% 80
rs7967165 AB_ASSAYS_ON_DEMAND 12 1.5557 950268 forward LGD

CCATGAGACAAGGAGGTATCTGAAGAAAGTGAACCAACAACCGAGCTATTTTGGGTAGGGTATCACAGCAAAGGG
AATGTTCTATTAATTACTCTTCTCA[C/
T]CAATAACCAAAGCCAGGTACATCCCTTGCTGAGACTTTGAACCAAATACATATATTTTGAACCAAATATATAC
GTAGAGAGAGAGAGACAGGAAATAAAT C/T 1,004 0.234 0.118
0.066 0.115 84.3% 198 17.8% 152 56.9% 58 56.2% 80
NA 0 92.4% 66 82.5% 40 79.3% 92
97.6% 42 NA 0 18.4% 76 17.1% 76 56.9% 58

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        56.2%   80
rs739973        TSCAF   12      3.1396  1518835 reverse MIT
GCTACAGGACACCTCGTTCAACTTGAGGACCTGTTTAATCAGCAGGGTGGCCGTTCATGGGTGAAGAGGGTAGCG
GCATGGTCCACCTGGGAGCAGCGGG[A/
G]GAGATGGCCTTGTGAGGGTGGGCCCAGGGACAAACAGCTAGTGAGAAAGCTGCTGCCATAATTCACATCAGCT
CCCCAACGGCCTGCCCTCGGCAGTAGC     A/G             extended_map    0.054   NA
        NA      NA      53.5%   114     20.5%   112     NA      0       NA
        0       53.5%   114     NA      0       NA      0       NA      0
        NA      0       20.5%   112     NA      0       NA      0       NA
        0       NA      0
CV2635908       AB_ASSAYS_ON_DEMAND     12      4.4008  1839523 forward LGD

GGCTACACTGGCAAAGCAGGTCTACACCTCAAGTTTCCTGGATGCTGACCTGGGTCTTTTGCTATTACCACAAAA
TTGCCAACTAAATATGAGTTGCTGG[C/
T]ATTCATGTTCAACCCTCACCCCGTGCAAATAAAGCCTGTGTCCCTCACCTGAAAGGGGTGTCGCTGATGTCCG
TGAAGAAGTAGTCATTGGTCAGGAAAA     C/T             extended_map    0.082
0.001   0.135   0.004   91.2%   194     57.7%   156     53.4%   58
65.0%   80      NA      0       96.9%   64      97.5%   40      84.4%   90
        100.0%  42      NA      0       59.0%   78      56.4%   78
53.4%   58      65.0%   80
rs723672        TSCAF   12      4.734   2031822 forward MIT
CCTCGCTGCCCCTCCCGCTTCCCCTCCCCTCCTCTATCTGTCACTTCTACAACCGCTCTGATTATAATTGATCAA
ACAGAATCACGGAATCACGGCTCAT[C/
T]TTGCCGTTTTGTTCAGTGGCCCGATCCGAAACGAGACTCTGGTAGTCGGGCAAATTGTATTCCTCCTCCTTGG
AATTCCGCTCACAGAGGCCTTCCCGGC     C/T             extended_map    0.107
0.000   0.136   0.030   85.5%   290     42.4%   264     44.6%   56
63.2%   76      83.3%   102     90.0%   60      82.5%   40      86.4%   88
        92.9%   42      46.4%   110     39.7%   78      39.5%   76
44.6%   56      63.2%   76
rs1420725       TSCAF   12      5.5969  2621844 forward MIT
TGTTCCCTTCCCCTCCGTGTAAGGGTGGGAGGAAGTTGCCTAGCACACCTTTTGTTGTGGCCAGACAACTGATTG
TACCTGGCCAGTGTCTGACACTTCA[C/
G]TTCCTACAGGCTCAGCAACCTGCTGCTGGGGTTCTTTCCAGAAAGCTCGTAAAGCAAAGGCACCTAGAAGATG
CCATGAGCTGGTAGTGAGGAGACACAG     C/G             1,908   0.086   0.000
0.115   0.000   69.5%   308     27.7%   264     29.3%   58      28.7%   80
        76.4%   110     60.6%   66      65.0%   40      69.6%   92
90.5%   42      30.9%   110     17.9%   78      32.9%   76      29.3%   58
        28.7%   80
rs2907509       AB_ASSAYS_ON_DEMAND     12      5.9647  2759890 forward LGD

TAAACTGACAAATTAGAAAGTGATCTAGTAAAAGCAAGGAGGCTTGTAGATAAATCCTAATTCTAGTGAGTACAA
CAAATATTTTTTAACAAATATTTTC[C/
T]ATATGCTGATATTTATAAGAGCATTTAAGATAAATCTAGTATAAATGCTGAACTCAGAGTGAGTAAAAATGAC
AAATACTTATAGGACAATGCATGCAAT     C/T             419     0.282   0.049
0.193   0.113   86.6%   194     14.3%   154     37.0%   54      51.3%   78
        NA      0       93.9%   66      81.6%   38      83.3%   90
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73.8%   42      NA      0       17.9%   78      10.5%   76      37.0%   54
        51.3%   78
CV2782911       AB_ASSAYS_ON_DEMAND     12      6.4754  2947460 forward LGD

ACTCACTAAGCTCTGTGACCCTCTGGCCACATTGGAAGCCACATCTGGTTTTGGAAAGTTTATATATCCTGAGCT
GTTAAGTATTGAGCTCGCCATTTTT[A/
G]TGGGTCTTCCTCTACCCCCCACCAGTGATCTGATCTCAAACATGTGGGTCTTTTTTTTTTTTTTTTTTTGAG
ACGGAGTTTCGCTCTTGTTGCTCAGGT     A/G             160     0.301   0.189
0.062   0.015   88.7%   194     14.7%   156     64.3%   56      26.3%   80
        NA      0       95.3%   64      90.0%   40      83.3%   90
81.0%   42      NA      0       19.2%   78      10.3%   78      64.3%   56
        26.3%   80
rs7961627       AB_ASSAYS_ON_DEMAND     12      6.5871  2988496 forward LGD

GTCTCTGAGCTGGGTTACTTACTTGGGCCTAGAGCATGTTCATTTTACCGAAAAGGATACTGAGCCACAGAGTGT
TCTCACTGAGCCAGCGTTGAGGTCT[A/
G]TTTCCTACATCTGTAGAAATTTGGAAGAATCTGCGGGAAAAACCTTAAAGGAACTAGATTTAAGAAGAGACGG
CTGGGCTGGGTGCAGTGGCTCACGCCT     A/G             extended_map    0.164
0.100   0.050   0.114   42.4%   198     96.2%   156     69.0%   58
66.2%   80      NA      0       39.4%   66      40.0%   40      45.7%   92
        50.0%   42      NA      0       98.7%   78      93.6%   78
69.0%   58      66.2%   80
rs877090        TSCAF   12      7.509   3260045 forward MIT
GGAGGAGGGGTGGCGGCCGGTACTTCTAGCTGCCTTCCCCGGTGACCTGGCCGGGCACCTGTGCTTTCTGGATTT
TAGCCGGGAGTGGAGTGGTACCCAC[A/
G]GGGGCATTTGCCTGAACTGCTGAGTCAGATGTGATACAGCAAGGTACAGCCAGGGAGGGATGAGGATACAGGA
GGGGCAGGCCTGAGAGAGCTGTGGCTG     A/G             1,011   0.201   0.019
0.155   0.007   92.2%   296     35.8%   240     52.0%   50      45.2%   62
        87.5%   112     93.5%   62      97.4%   38      95.2%   84
100.0%  40      33.9%   112     32.8%   64      42.2%   64      52.0%   50
        45.2%   62
rs4149621       APPLERA_RESEQUENCING    12      17.5778 6321822 forward LGD

TGGATCACAGCAGTGAAAAGATCCAGAGTCTGGGAGTCAAATTCTCTGGGTTCCAATTCAGAATGCTTAGCTTTT
TAGCTAAGAATGTGTCTTGGACACA[C/
T]AAATGAACTTCTCAGACACATAACTGAAACTGTCTGGATCTGTTTTCCAATTTGCAGAGTGGAGATAACCTGT
CTCCTGGGGTTCCTGTAAGGATTTGTT     C/T             1,316   0.184   0.062
0.121   0.030   44.8%   194     99.4%   154     84.5%   58      91.0%   78
        NA      0       43.8%   64      35.0%   40      50.0%   90
38.1%   42      NA      0       98.7%   78      100.0%  76      84.5%   58
        91.0%   78
rs2286600       AB_ASSAYS_ON_DEMAND     12      17.6601 6353047 forward LGD

GTGTTCCCAAGGTGTGGCATGGCTGAGTGAATACAAATAAAAGGTATACAAAAGCACTCAGCCCTGCCCTCCTCT
CTTCTCCACGCTTACCACCTGCTCC[A/
G]GTTTCCAGACCCAACATTGGCAAAGAGCACCGATGAAACCCAAAAGTTCAGGACACACCCAAGCACGTAAAGG
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TCAGGCACCTGGGCAGGTCAACAGTGC A/G extended_map 0.181
0.172 0.008 0.191 90.9% 198 36.5% 156 84.5% 58
86.3% 80 NA 0 95.5% 66 92.5% 40 87.0% 92
92.9% 42 NA 0 38.5% 78 34.6% 78
84.5% 58 86.3% 80
rs1057510 AB_ASSAYS_ON_DEMAND 12 18.1881 6553548 forward MIT

AAAAAAAAAGGGGTTATTTTGCTATTTAAAAATATTTTTGTTTTTTATTTCCTCTTATCGCCATCTCACTCCCAT
TCCTCTGAAAAGCAACTTTTCTAAT[A/
G]TAGTAATACTGTGGCTTTTTGTGTAGGTTTTTAAAAACTGTTTCTGTTTCCTATGTATGTTTCTAAGTTACAG
AATGATGTTTTCTGTATCTATAAAATG A/G extended_map 0.13
0.004 0.256 0.001 32.1% 196 83.3% 156 89.7% 58
81.2% 80 NA 0 26.6% 64 27.5% 40 38.0% 92
33.3% 42 NA 0 88.5% 78 78.2% 78
89.7% 58 81.2% 80
rs1639122 TSCAF 12 18.2615 6581408 forward MIT
TCTAAAGGGCAGTAAGGTGTCTAGGAAACAAAAAGACAAAAGTTTAACAGTACAAAGAAGAGGATGGAGGTCCAG
GCACCTTTGAATCATCATCATCATC[A/
C]TCCTCCTCCTCCTCCTCCTTCCGCTTGGATTTGCTCTTCTTCTCTTTCTTAGGTCCAAGCTTCTTCTTCTTCT
TCTTGCCAGGAGTATAGTCGCTGCCCT A/C 1,523 0.167 0.000
0.204 0.000 7.5% 306 57.6% 264 55.2% 58 56.2% 80
5.3% 114 1.6% 64 10.5% 38 13.3% 90
16.7% 42 55.4% 112 53.8% 78 64.9% 74 55.2% 58
56.2% 80
rs2226955 TSCAF 12 18.9306 6835455 forward MIT
GATGGGGCAAGTGAGGTGCTGGCTCGGAGGAGGGACATTGACCTGTTGTCATTGCTCTACTCTCCCTCTTCTTCC
CTATCCTTCCAGGTGTTGAAGGCGG[A/
G]TTTGACCTTAGCGAGGAGAAGTTTGAATTAGACGAGGATGTGAAGATTGTCATTTTGCCAGATTACCTGGAGA
TTGCCCGGGATGGACTGGGGGGACTGC A/G extended_map 0.153
0.001 0.194 0.043 84.7% 308 31.9% 260 34.5% 58
56.2% 80 80.9% 110 92.4% 66 97.5% 40 78.3% 92
88.1% 42 32.1% 106 29.5% 78 34.2% 76
34.5% 58 56.2% 80
CV25605275 APPLERA_RESEQUENCING 12 18.94 6839002 forward LGD

GATAAGCTGGAGAAGATCTTCCAGAATGCCCCGACGGACCCTACCCAGGATTTCAGCACCCAGGTGTATGTAACC
AGGTCCTATGTAGGAAAGCTGTTGA[C/
G]AGTCATGGCCGTATACCTTCCTCCTCCCTGACCGCCTGGGGGGCACAGCACTTTAACCCCTGGCCTTTTTTTG
TTTTGTTTTGTTTTGTTTTTTGAGACG C/G 92 0.345 0.060
0.258 0.214 85.9% 198 6.4% 156 27.6% 58 55.0% 80
NA 0 89.4% 66 77.5% 40 87.0% 92
81.0% 42 NA 0 6.4% 78 6.4% 78 27.6% 58
55.0% 80
rs3087835 AB_ASSAYS_ON_DEMAND 12 19.1621 6923346 forward LGD

TACAGCTCTTTTAGAATTTGTCTAGTAGGCTTTCTGGCTTTTTACCGGAAAGCCCCTCTTATGATGTTTGTTGCC

AATGATAGATTGTTTTCACTGTGCA[A/
G]AAATTATGGGTAGTTTTGGTGGTCTTGATGCAGTTGTAAGCTTGGGGTATGAAGGTTTGGGCCACGCCTGGGC
GCTTCCGGCTGCGCCGGATGCTGTTTC A/G extended_map 0.192
0.002 0.230 0.003 88.4% 198 30.1% 156 34.5% 58
23.7% 80 NA 0 86.4% 66 95.0% 40 87.0% 92
80.0% 40 NA 0 26.9% 78 33.3% 78
34.5% 58 23.7% 80
CV418915 AB_ASSAYS_ON_DEMAND 12 20.8824 7485621 forward LGD

GAGTATGACATATGTACCCGATCTTGTGCTTCATTATGGGAATAGAGGAATGAATAAGTGTTCTTGCCTGTATTC
CACTCAGTGGCTTGTGACTGGAATG[C/
T]ACAAGCAAATCAACATTTGGAGGTCACTATAATAACTGCTGATTGAGCTCATGATTATTTACCAAAGCTATCC
ACTTTTCTTCAGGGTCACTATTCTATT C/T 516 0.281 0.180
0.043 0.115 95.9% 196 31.2% 154 81.0% 58 71.3% 80
NA 0 97.0% 66 97.5% 40 94.4% 90
100.0% 42 NA 0 30.8% 78 31.6% 76 81.0% 58
71.3% 80
CV2663193 AB_ASSAYS_ON_DEMAND 12 22.7657 8152917 forward LGD

TTGTGTCAGTGCTGCATCTGGCTGCATATTAGCATGCGACCACTAGAGGGCATGCTCCTCCTAGCAACTGAAATA
GTTGTAGGAATTTGCTCAGACTCCT[C/
G]GTGGCAGGGGAAGCATTTGTTTTTTATTTTTTATTTTCTTTTTCAACAATCTAAGATAGGACGAGAACAGGGG
AAGCATTTAAAAAGAAAGAAATGAAGA C/G 1,099 0.209 0.239
0.003 0.021 90.9% 198 31.7% 142 87.9% 58 48.7% 80
NA 0 89.4% 66 97.5% 40 89.1% 92
85.7% 42 NA 0 39.7% 68 24.3% 74 87.9% 58
48.7% 80
rs765791 AB_ASSAYS_ON_DEMAND 12 24.8797 10293655
reverse MIT
GTCAAGAAATGCATTACGAGCCACCATGGGACACTACCACCCTTCTGCTTAGCAGAGCTCAGAGTAAGGGTCCCT
TCCTGTGTGAAAGGCACTGACTGCT[A/
G]CAGCCTCCAGGAGTCCTTCTCACTGCATATGTGTGATAAATGTGAGATTCATTATTTTGTTCTTTGTAGAAAA
TTAAGTATGAAATAATTTCTTACTCTT A/G extended_map 0.13
0.093 0.489 0.003 19.1% 278 68.8% 256 96.6% 58
62.9% 70 16.0% 106 17.3% 52 26.5% 34 20.9% 86
8.3% 36 71.4% 112 68.6% 70 64.9% 74
96.6% 58 62.9% 70
rs1841957 APPLERA_RESEQUENCING 12 24.9959 10453292
forward MIT
ACCTTTCTGCATTCAACTGCACATCCTAGAACAATAATATTGAAGATCTATTTAATGTTTTACCTTTGCAGTGAT
ATGTCTTGTCATTCCCTTGATGATC[C/
T]GAAGAAGCATTTTGAAGGTTTAATTCTACTTGGAATATTTCCTGTTTGGTTCCTGAAATGGAGATTTTATTGC
CCTTAAGTTTCCTTTGCTGCCTCTTTG C/T extended_map 0.118
0.000 0.176 0.007 18.6% 188 66.0% 156 67.2% 58
56.4% 78 NA 0 20.3% 64 17.6% 34 17.8% 90
17.5% 40 NA 0 67.9% 78 64.1% 78

67.2%	58	56.4%	78
rs763839	AB_ASSAYS_ON_DEMAND	12	25.3055	10878830
reverse	MIT
ACAGATTTTTGCTCTTGAGTTAGCATTTTTCTATCTATTCAGTCATTCATTTTTTTCTGATTTTATGGAACAGCA
AACTGAAACAGGCTTCTCTCTGTGT[C/
G]CTGAGGAACCTTCGGTGTTACATGAATATAAGGAAATCTAAATCCTCATAAACACACCTGAATTGATTGGTAA
TTCTCTCAAAAATGAAGACAACAAATA	C/G	extended_map	0.16
0.003	0.302	0.008	34.4%	308	89.8%	266	94.8%	58
96.3%	80	34.5%	110	27.3%	66	30.0%	40	41.3%	92
	28.6%	42	93.8%	112	87.2%	78	86.8%	76
94.8%	58	96.3%	80
rs916041	TSCAF	12	26.2286	11703597	forward	MIT
TACATGGCAAATGAGAAGATGAACTATAGACTGGAAAATAACCCTTTTTTGAGGAATTGTGGAGAAAATGTTACC
CACCTGTCCCTCCTACCACCATGCA[A/
G]TAAGTGTGGGCTACTTAATACTCTTGAAGCAAGAGTTTAGGTTTGGAGAGAAACTGCTCCTCTGATCTTCTCC
TGGAAACCACAAGTGGAAGTTTGTGAT	A/G	867	0.159	0.000
0.214	0.066	5.8%	328	52.3%	300	53.4%	58	22.5%	80
	3.0%	132	9.1%	66	2.6%	38	8.7%	92
0.0%	42	55.4%	148	44.7%	76	53.9%	76	53.4%	58
	22.5%	80
rs2541113	AB_ASSAYS_ON_DEMAND	12	26.2628	11725316
reverse	MIT
AATGGATTTGCTACTGTTCCAATTGCAATGGAACCCGGATGCAGACGGCTTACAGCTGCCTCAGCATGATAAATG
ACCATGCTTATTCCTCCATCCATAT[G/
T]AGAAAGAAATTAGGTCTATACTCAGTGGGATGCAGGACAGAGTCTTGCCTAGGAGGCTTCCATAGAAAATGGC
TTCATCTGTGCCACCAGAAAATGTCGA	G/T	extended_map	0.163
0.058	0.093	0.066	55.1%	196	2.6%	154	19.6%	56
21.8%	78	NA	0	51.5%	66	57.9%	38	56.5%	92
	76.2%	42	NA	0	1.3%	78	3.9%	76
19.6%	56	21.8%	78
rs850918	TSCAF	12	30.0755	13033441	reverse	MIT
GATGAGGCTCTACGGGAAGCAATGCCCAAGGTCGCAAAGTATGCGGGGGGCACCAATGACAAGGGTGAGTACCCC
TGCAGGATGTGGCTCTGGTCTCGGG[C/
G]ACCAGCTTTGCAAGGTCTCACTTCATCAGTGGTAAATGCAAGTGAGGGGCTACAAGGCACCTGTAGTGACCTG
TTTCAATGACCTGTGAACCTCCTGCAC	C/G	493	0.24	0.005
0.441	0.009	76.6%	188	8.6%	162	2.5%	40	1.9%	52
	79.1%	110	86.4%	22	75.0%	20	63.9%	36
79.2%	24	7.7%	104	3.1%	32	19.2%	26	2.5%	40
	1.9%	52
rs991532	AB_ASSAYS_ON_DEMAND	12	32.6784	14656017
reverse	MIT
ATCCCTGGTTAGATTTCCCACAAAGCCCAGGTGCTAATGTGGAACCTTCCTCTTACTTGGAAACAACTAAAAGGT
TTTTTCCTTTTAAACAACCTTTGAA[C/
T]TCTAGCACTCTCCTAAGGCTTCCCCAGACCAGGAAGCAATAGCAGACCAGTGACTAAGTTACAACATTAAGCA
CTAAAAGTCTAACACCACCAAGAATAC	C/T	1,490	0.183	0.001
0.285	0.000	57.7%	196	1.9%	156	1.9%	54	1.3%	80

NA 0 67.2% 64 40.0% 40 58.7% 92
50.0% 42 NA 0 2.6% 78 1.3% 78 1.9% 54
1.3% 80
rs1362602 AB_ASSAYS_ON_DEMAND 12 32.8327 14729736
forward LGD
AGTTTTCTCTGTGTCGATGAAGCGTGATTCTTGATTCAGGGTCAGATTGAACAGGTACAAAAAAGGAACTTGAGC
AGGATTTTGATTAGGGAAGGTGTAA[G/
T]TAGCAGAACAAAGTATTTTTTGGTGATAATTACATTGTGTAAAATGAATGGAAGAGATGAGGGTGATTTTCCC
AGAGCCAGAAAAATATATTCATTCTAG G/T extended_map 0.125
0.106 0.016 0.012 60.1% 198 10.9% 156 44.8% 58
20.0% 80 NA 0 60.6% 66 62.5% 40 58.7% 92
45.2% 42 NA 0 14.1% 78 7.7% 78
44.8% 58 20.0% 80
rs984303 TSCAF 12 33.5868 15641658 forward LGD
TGAAAGTAAACACAAGCTGGCTGCTTCCCTGTGGCAACTGTGGCTATTGTGAGCCTCCGTGTGTGTGCTTCCAGG
AGGCTTTGCTCCTCTTCATGCACCC[A/
G]ACACTGCCCCTTCCCTGGCTTCCCTCCATCCCTGATCATCTTCATGAAGCCACAGATATAAGATCAGCTTAAT
ATTTTATCAGTGACCTTAGTGTTGGTG A/G 232 0.288 0.001
0.433 0.005 73.2% 198 1.3% 156 1.7% 58 3.7% 80
NA 0 81.8% 66 72.5% 40 67.4% 92
88.1% 42 NA 0 0.0% 78 2.6% 78 1.7% 58
3.7% 80
rs4764216 AB_ASSAYS_ON_DEMAND 12 33.6185 15682634
forward LGD
TATGCCAGATAGCAGATAGCAAAGCAGACTGTGAAGCTTGCTTATTAAAATTTTACAAGGTCTTAGTGGTTTTGT
TGAGCTCAGCCCAAAATTTTCAGGA[G/
T]GTGTTAAAAAGCAGATTGTTTTTAATACATTTTCAAAGTAGGGCCCTCAACCTGAACAGCATACGCTTCTGCA
TACACACAGAAAGCTTCTGTACACATT G/T extended_map 0.261
0.001 0.444 0.012 25.5% 192 95.5% 154 98.2% 56
88.7% 80 NA 0 15.6% 64 27.8% 36 31.5% 92
19.0% 42 NA 0 97.4% 78 93.4% 76
98.2% 56 88.7% 80
rs437249 TSCAF 12 35.226 16760416 reverse MIT
TTTTAAAAGTTGCTTGACTTCCTGAAAATAAAAAAGGGTAAAGTAAATGAACTCCTTCATACATATGCTTTGTTT
TATCATTTAAGATATGTTGATAATA[C/
T]GATATTGGTTTTCAGGTCTGCATTGTCCAGAAATGGAGATGACACCAGAAAACATTCAGCCTGCATTCTAAAT
AAATGATATCACAAATGATAAAACATT C/T 1,354 0.186 0.003
0.257 0.066 38.9% 288 96.2% 266 94.4% 54 76.4% 72
38.0% 108 35.0% 60 52.8% 36 36.9% 84
47.2% 36 95.5% 112 98.7% 78 94.7% 76 94.4% 54
76.4% 72
rs1386398 TSCAF 12 36.1375 18730910 forward MIT
AAATTCTACTCATTCTCCAAGAACCATCTCCAAAAGTGCCCCCTTGGAGTACAAATCTTTGTACTCTTCTTGAAG
CACGAATTACTCTAAATCATAATTA[C/
T]TTTACTTATAGCATCATCTTTCACACTGAACTATAAACTATCTATAGAAGAGTTCGTTGGTCCATATATAAGA
ATTCATTTAATAAACAGATTTTAAGTC C/T 920 0.217 0.006

0.342 0.026 97.7% 308 46.9% 256 37.5% 56 66.2% 80
100.0% 110 98.5% 66 100.0% 40 93.5% 92
92.9% 42 44.5% 110 43.2% 74 54.2% 72 37.5% 56
66.2% 80
rs4764467 AB_ASSAYS_ON_DEMAND 12 36.4575 19221751
forward LGD
AAGGAAACTAAGGATGAGGGAGGCTAAGCAGTTGTTATGCAGACGAGTTTCATTTTGAAAGGGTCAAAGCCTTTG
GATCAGTTCCCACTGCAACACATCT[A/
G]ATACACCCACAGTGCCGTGTTGTCCTTCGGGAAGAAGTTTTGTGCTCTTCTTTTGGTAATGTTGCTCAAATGA
TCATAATAATTTTAAAGCACACCAAGA A/G extended_map 0.14
0.032 0.087 0.042 32.0% 194 84.9% 152 67.2% 58
63.7% 80 NA 0 31.8% 66 31.6% 38 32.2% 90
26.2% 42 NA 0 84.6% 78 85.1% 74
67.2% 58 63.7% 80
rs1875467 AB_ASSAYS_ON_DEMAND 12 36.7562 19513612
forward LGD
GAGAAGGAACCTTCAGTGTCTAATATAAACCCAGTTGTTTCATTGGCTGGTCTTTCTGAGATAATATAACATCTT
ATATTTTCATAGTGTTTTGGACTTA[A/
C]CACGTGTGCTCAGAGTATTTCTGATGAAAAAGGAAGTAGATGATTCTTCCAAGATTACATAGCTGCAAAGTGA
AAGAACTGGATTGAATTCAGTTTAGCA A/C 1,119 0.284 0.133
0.066 0.072 100.0% 196 44.9% 156 86.2% 58 76.2% 80
NA 0 100.0% 66 100.0% 40 100.0% 90
100.0% 42 NA 0 43.6% 78 46.2% 78 86.2% 58
76.2% 80
rs1875466 AB_ASSAYS_ON_DEMAND 12 36.8772 19574697
forward LGD
CTTAAATTTTATATGCTTATCAGAGGTTGGCCATAAACTTGCTAGCTTTGAACTAATTTATGAAGGAGTGCATGA
GGATGTTGGAAGATTCATAGCATTT[A/
G]TAACTGGGTAGTAAGCATTTAGAATTAGCTGGACAGTGGGCTAGGGGAATTTGTTTAGCCTTCACATTTAGTC
CTTACAGTTAATGTATGAAATGTGGGT A/G extended_map 0.15
0.137 0.007 0.069 8.1% 198 55.8% 156 13.8% 58
25.0% 80 NA 0 13.6% 66 5.0% 40 5.4% 92
7.1% 42 NA 0 55.1% 78 56.4% 78
13.8% 58 25.0% 80
rs1865159 AB_ASSAYS_ON_DEMAND 12 39.3429 20962526
forward MIT
GATTCCAAATTCAAACATGTGTGATATCGCTTGGATATCTTTAAAACATTCCACATGATGCTAGGATTCCTTGAT
AGACCACCATGGTATAGGAAAAGGT[A/
G]TACCTGAGTGTAGTAAAGTCACAAGAAATTATTACTAGAATATGGGAACTGGCCTGGAAGATATATAGATATA
TACGTGTGTATGTATGTGTGTGTGTGT A/G 497 0.253 0.003
0.454 0.002 71.7% 286 3.6% 248 0.0% 56 5.0% 80
69.4% 98 81.2% 64 69.4% 36 68.2% 88
60.5% 38 5.9% 102 1.3% 78 2.9% 68 0.0% 56
5.0% 80
rs4350408 AB_ASSAYS_ON_DEMAND 12 41.7719 22043980
forward LGD

TCAGAAACTTCAATTTCTGTTATTAAAAAAAAAAAGAATTTGAAATGTGTGTCCTGATGTCATTCTCTATTCCTT
AATTGGTTTCTTCTGGTGAATTCTT[A/
C]GCTTTGCTTAACGTGGTTATTATTGTTGCCTACTTTCATTGGGTACTGGGGAGATTTTAGGCCACTATAGCAC
TATGCTATCCTAACTTGCAAATGTTTC A/C 189 0.291 0.020
0.579 0.005 17.7% 198 91.7% 156 100.0% 58 96.3% 80
NA 0 24.2% 66 12.5% 40 15.2% 92
11.9% 42 NA 0 87.2% 78 96.2% 78 100.0% 58
96.3% 80
CV1534249 AB_ASSAYS_ON_DEMAND 12 42.2053 22539123
forward LGD
TTAAAGAATTTCTTCATATTCCCAAATGAAATGTATATAGTAACAGCAAAAATACACTTTCAAATCCATACTCTC
TTTTTTCTAAGACATACACACTTAC[G/
T]GACCAATCTGAACATCCATTTAACATCATCCTTTCCTAAAAGAGAATTTTTCTATCATAAGATGAACTATTAT
TCAAGTGGTTGCTCTAATCTATTAAAT G/T 1,168 0.154 0.095
0.035 0.447 27.0% 196 82.7% 156 48.3% 58 7.5% 80
NA 0 34.8% 66 15.0% 40 26.7% 90
5.0% 40 NA 0 87.2% 78 78.2% 78 48.3% 58
7.5% 80
CV12102301 AB_ASSAYS_ON_DEMAND 12 42.8201 23241502
forward LGD
GGACTGTTTTGGAAAAGTGTGAGAGCTCAGTCTTATTGATCTCCATGATCTTGAAATCCCTTATGACCAAGAGCT
GCTGCTGCAGATTATTCTCTTCCCT[C/
G]GAGTCTCTCACATTTCTCGATGTGAGTGTGTGAAAAGGTTCAAGCATCAAACAAAGTCCCAGTTTTACAATGT
CTTGCAGATTAAAAAAATAAATAGATT C/G 1,602 0.128 0.000
0.210 0.027 72.7% 198 21.8% 156 19.0% 58 7.5% 80
NA 0 69.7% 66 70.0% 40 76.1% 92
76.2% 42 NA 0 21.8% 78 21.8% 78 19.0% 58
7.5% 80
CV25760797 APPLERA_RESEQUENCING 12 46.3661 25191188
forward LGD
ATGGGCTTTTCCAAACACACCATGCTGCTATGCAATAGGCATCTATCTGGCAATCATGATGTGGCTCAATGTCTT
TCTTTCCACCTACAGGGAAAGTATT[A/
G]CCCACAAGGGTACCTTGGATTCTTCTTGAGGTTTGCCCACACATACAGAGTAACATTTTCATCTTTAATGACT
TTTTCCATATTTCCACTGTCCAGATCT A/G 1,371 0.172 0.034
0.437 0.088 79.3% 198 21.2% 156 5.2% 58 0.0% 80
NA 0 80.3% 66 82.5% 40 77.2% 92
78.6% 42 NA 0 23.1% 78 19.2% 78 5.2% 58
0.0% 80
rs1488822 AB_ASSAYS_ON_DEMAND 12 47.8705 25920114
forward LGD
TTTCAAAAGGAATTCCAAGTAGGCTTTGAAAATAATGGGAGGAGTAAGTGGCCCATCAAGCCAACATTTGCTTGA
GCCAGAGGACTTGCTCACCGAAGAC[A/
G]TTGCTGGATTTCTTATCTGACTAGTCAGTCAAGAAAATTTACTTTGATGACCATAAATGGACATTTTTTACAA
TGATCATTATTTACAGATGCAAGTGCT A/G 2,000 0.077 0.054
0.011 0.016 79.5% 190 41.3% 150 69.0% 58 56.4% 78
NA 0 79.7% 64 77.5% 40 80.2% 86

78.6% 42 NA 0 40.8% 76 41.9% 74 69.0% 58
56.4% 78
rs1993973 TSCAF 12 48.172 26201374 forward MIT
CAGATGTTTTTTCATGTTTAGTAAAAACAACTCTGGTCTCCAGATGAATGGCATTCAGCTCCGTCTTGTTAGTGC
TGTTTTGTTTGTGGTAGGGTTTTCC[A/
G]GGTGCAGATTCATAGCACCTTAACTTTGTATTGGCTAATAATTAACAAAAGCGGCTGCTGACTTCACTAAGTG
ATTGCAGATTTTACTGCAAGTTCTTTT A/G 753 0.237 0.014
0.271 0.002 70.2% 292 4.2% 264 10.7% 56 6.2% 80
66.7% 102 70.0% 60 76.3% 38 71.7% 92
50.0% 42 2.7% 112 5.4% 74 5.1% 78 10.7% 56
6.2% 80
rs2271484 AB_ASSAYS_ON_DEMAND 12 48.3233 26342505
forward LGD
TAGATTAAAACACGTGAGGCAAAGCCTATACCTTGTAACTCTTCAATTACTTTCTTATAGATGTGCCAGTAAATA
TGAATTGGTTGGATTTGACTTCTCA[A/
G]TGATACACAATGATTCTCTACCTGGACTAACACCACAGAGGATGCCATAGAAACTTCTGAGATTTCGATGATA
AATATAAAAAGTTGAAGCTTTGGGGAG A/G 1,811 0.122 0.038
0.357 0.004 25.8% 198 75.3% 154 93.1% 58 82.1% 78
NA 0 12.1% 66 32.5% 40 32.6% 92
26.2% 42 NA 0 77.6% 76 73.1% 78 93.1% 58
82.1% 78
rs7963493 AB_ASSAYS_ON_DEMAND 12 48.5203 26526342
forward LGD
AAAACTGAAATCCTGGTGAGTTAAATGAGAAAGACCAAAATCAAGACAACTTCAAAATGACTGCTTTTTCAGCAT
GGGCCTTATTTCTCCCTTCATACAA[C/
T]GGAGTTTTTATTCCTCTGACACAGAGGAAAGGTGTTTTCTACCCATCTCCTACCTGTCCTGAGGTTCTTCTGC
TCATTAAAATATTTCCCAAACTTAAAG C/T 503 0.247 0.016
0.474 0.059 8.6% 198 73.4% 154 86.2% 58 45.0% 80
NA 0 6.1% 66 0.0% 40 14.1% 92
4.8% 42 NA 0 73.1% 78 73.7% 76 86.2% 58
45.0% 80
rs2042587 AB_ASSAYS_ON_DEMAND 12 50.2903 27831790
reverse MIT
ATGGAACAGGAGGACTCACTCCAACTCCATTTTCAGAGCTAAAGTGCAGGGCAATGGAAAAGACTAGAGAAAGCT
CTGGAAATGGAGAACCTTAATGAAC[A/
C]AACTGCTGCAACAGTGGTCAGTTCCTGCAAGTTATCACTGATTAAAGGGAAAGCAAGCACCCTCGATCTCACA
AGCTTTTTTTTTTTTTTTTTTGAGAC A/C 1,864 0.122 0.012
0.090 0.051 91.3% 196 48.7% 154 62.1% 58 75.0% 80
NA 0 84.8% 66 94.7% 38 94.6% 92
88.1% 42 NA 0 42.3% 78 55.3% 76 62.1% 58
75.0% 80
rs2288232 APPLERA_RESEQUENCING 12 50.2995 27836125
reverse MIT
TGTACACTATTAAAGCATAACATGACACTCGGATATGTCGGGGCTTCCTCTGACACCCTCTTGCCCTTCCCAGAC
TGCTGACGCCTACACATGGGCAGAC[C/
T]ACCTACCTGGTCCCTTCACTTACCTCTGGTAGTGTATCCTCCAATGACATAAATTTTTCCCTTACACTCACAG

GCAGAGAACTCAGCCAGAGGATTGGGT C/T extended_map 0.102
0.006 0.091 0.047 9.6% 188 48.7% 150 39.7% 58
23.7% 80 NA 0 15.6% 64 8.8% 34 5.6% 90
5.3% 38 NA 0 54.1% 74 43.4% 76
39.7% 58 23.7% 80
CV2697474 AB_ASSAYS_ON_DEMAND 12 51.8036 29261138
forward LGD
TAGGAGAAACTAGATTTTATCAAAAGAGCTACAAAGCACTTTGGTGTACAATGGTAGATGTGTGCTCAGATATTC
ACAGTACTTTGCCAAAGAAACTAAA[C/
T]GAATAACAATAATGCAACACCAGAGCTATCCGTCATAAGGTAAGGCTCTCTAATCGCTGGCATTTAAAGACTA
AAAGAAAATGACACATTTAAAAAATAT C/T 1,558 0.169 0.026
0.348 0.080 1.0% 198 40.9% 154 60.3% 58 11.3% 80
NA 0 0.0% 66 5.0% 40 0.0% 92
0.0% 42 NA 0 40.8% 76 41.0% 78 60.3% 58
11.3% 80
rs299478 AB_ASSAYS_ON_DEMAND 12 52.3061 29598519
reverse MIT
TTCCATGCCCAAATCCCTACTAACAGTGATATTAAAACTAATTGTGTATTAAAAAAAAAACAAGAAAGGAAAAAC
AACTGATAATGAAGACAAGTGTACA[A/
G]CTGTGGTGGAAAAAATATTTTAGTTCTAAGAGGCTCTTTTTAAAAATAGCAAATCAAACAGTGTGACAAAAAT
TAGATCTACTTATTGTAGATAGCTAGA A/G 236 0.274 0.003
0.361 0.000 18.9% 196 91.0% 156 87.9% 58 90.0% 80
NA 0 15.6% 64 32.5% 40 15.2% 92
16.7% 42 NA 0 89.7% 78 92.3% 78 87.9% 58
90.0% 80
rs1843321 TSCAF 12 53.2693 30245161 reverse MIT
TCAGCACCCGGAACAACAGCATTGGCGCAGGGGAGACGCTCTCCATTCGCCCCTTGCTCGCGTCCAGTCGCCGGC
TCCGTGCTCTTCTGCCCAGGCTTTC[C/
T]CTCACCCGCCCAGTGCTGCGTCCTGCAGACCCAGCCTCCTGCGGGGATAGGGAGCACCTTCCCCAAAGCCAGG
AGAAGGGGTCTCCCTGGACAAGGACAT C/T 1,184 0.183 0.016
0.396 0.167 22.1% 326 81.9% 304 93.1% 58 35.0% 80
18.8% 128 21.2% 66 30.0% 40 23.9% 92
26.2% 42 87.2% 148 78.2% 78 75.6% 78 93.1% 58
35.0% 80
rs1458160 AB_ASSAYS_ON_DEMAND 12 57.2452 40155104
reverse MIT
AAGGGATGAGAGAACCTAGAAATCACTTCTAGGTAGGAGAAACAGAAACACAGACACATTATTATGATATACTGT
AACCACACTATTGAATATAAGTACA[C/
T]CCAATGTACAACGGGAAATTCAGGTATCTATGTCCAGTAATTCTCTAGATAGTTCTACTTGCATTTTCCAGCC
TGGGCACAAAATCTGCCTCAAAATATT C/T extended_map 0.036
0.001 0.070 0.004 74.7% 162 48.4% 122 43.8% 48
40.6% 64 NA 0 72.7% 44 79.4% 34 73.8% 84
81.6% 38 NA 0 53.6% 56 43.9% 66
43.8% 48 40.6% 64
CV3164590 AB_ASSAYS_ON_DEMAND 12 58.9276 42855115
forward LGD

GTATTTGAAGATCCAAAGAGAAAGAGATTCCTAGAAATACCAGGACCTTGAAATTGTACAATTCTGGCTGAAGTT
GCATGAGTGAGGAAAAGAGCTGGAG[A/
C]GGTTGAAGGACCAGGCTTTACAGATTTTAAAGTATGGTAAATATTTTGAATTCTAATGATATAAGAAACTATT
GAAGCAGATTTTATCACTACTTTGGCT A/C 115 0.328 0.000
0.515 0.001 16.3% 196 94.2% 156 96.3% 54 93.4% 76
NA 0 20.3% 64 7.5% 40 17.4% 92
20.0% 40 NA 0 94.9% 78 93.6% 78 96.3% 54
93.4% 76
rs2471601 AB_ASSAYS_ON_DEMAND 12 60.3552 45234926
forward LGD
GTCAAACAGCTAGTTATCTCTGACTTTAAAAAGTGGACGATAAACTATTTATTGAGCACCTGCTATTTTACAGGG
CATAGACTTTTCCCTTTAGGAGCCT[A/
C]AATTCTGATGGGGAAGAGAGGGGTGTGTTTAAAAATAATTACTCTACAATGTTGTAAGTGCTTATGAAGGTAT
ACAGCAAGTGCTATTGTAGCTCAGGGC A/C 425 0.283 0.147
0.088 0.066 18.4% 196 91.6% 154 51.7% 58 67.5% 80
NA 0 15.6% 64 10.0% 40 23.9% 92
7.1% 42 NA 0 88.5% 78 94.7% 76 51.7% 58
67.5% 80
rs2849266 AB_ASSAYS_ON_DEMAND 12 63.838 48652567
reverse MIT
TCCAAATGGGCTGACACCACACCGTGCCCGTAAACCCAGAAAGTAAGTTCCCTCCTCCACTCCCACCTATACCCG
CACTCACAGAATGCAGATGTGAATA[C/
T]AGTCGACTTTACCAAGGACGCTGTGGACACTGTGGCCTGTGGGGTTGCAGAGGGGCGGGTGGAGAAGGGGTTT
ATTCCACAGCGACTCAAACCGCGTCAG C/T extended_map 0.402
0.204 0.123 0.247 8.5% 176 92.5% 120 44.0% 50
38.2% 68 NA 0 3.6% 56 10.5% 38 11.0% 82
15.0% 40 NA 0 94.6% 56 90.6% 64
44.0% 50 38.2% 68
rs615382 AB_ASSAYS_ON_DEMAND 12 63.8696 48699178
forward LGD
CCCATACCCTACTGACTTCCAATTTTGATTTCCCTATTTTTATCATTCTCTCAGTCGCTCAGTTCCAAACTTCAG
AATCACCTCTGGTTCCTCCCCTTCC[A/
C]ACAGCATAATCACTAAACCTTGTGTACTCTTCTCTCATGTATCTACCATACCCACCCCCTTATCACTTGCAGG
TTGTCACCACTCACTTCAATTGCACTC A/C 1,029 0.386 0.023
0.388 0.000 90.3% 196 7.7% 156 19.6% 56 6.2% 80
NA 0 92.4% 66 95.0% 40 86.7% 90
83.3% 42 NA 0 9.0% 78 6.4% 78 19.6% 56
6.2% 80
rs303810 AB_ASSAYS_ON_DEMAND 12 65.346 50449515
reverse MIT
CTGACCCAGATGATCCAGAAGTGACAGAGGTGGGTCCAGGATCATCTTAGGATTCCACCTCATTTAGGAAAGGCC
TAGAATGATACTGGGATGGTGGAAT[C/
T]AGTTCTCCAAGTAAATTGGTTATTCCAGAATCTCTCTACCAAGCCCATAGCTGAACCAATCCCCAAGGCTGAC
AGCACCCTGTTTGCTCTCACACAGGAT C/T 2,017 0.104 NA NA
NA 67.4% 92 20.8% 96 NA 0 NA 0
67.4% 92 NA 0 NA 0 NA 0 NA

0 20.8% 96 NA 0 NA 0 NA 0
NA 0
rs631563 AB_ASSAYS_ON_DEMAND 12 66.9119 51205717
forward LGD
GCTGGAGCTGTTGCCTCTCCCAGGGCCACCCTCAGGAAATGCACTCGGCATCTGCACAGTCCTCAAGGCCATGGG
ACACCTTGCTGGCCCCAGTCCCACC[A/
G]TCTATGTGAGACTGTGACCCTGTGTCCTTCCCCATTTCCTCCCTCAGACTCCAGGACACACTCGCAGCTCCCA
TCTTCATGTTCCGTGAGCACATGTGAA A/G 446 0.359 0.092
0.169 0.063 97.5% 198 24.7% 154 60.3% 58 53.7% 80
NA 0 100.0% 66 100.0% 40 94.6% 92
97.6% 42 NA 0 27.6% 76 21.8% 78 60.3% 58
53.7% 80
rs7957445 AB_ASSAYS_ON_DEMAND 12 67.8521 51694847
forward LGD
AAAGCAACCTTCAGTTAAACAAAGGGGTACATCAAGTTTGATACTCTTGGATTAAAAATCAGGTGACAATTGGAA
CATGGAGGAGAAATTCATGATTATA[A/
G]AAACCATGAAGCCAATCTTTTTTACAACAAAGCTGCTTGTTTTTTTCTTAATCATGTAGTGGCTGCTATCAGG
CCAGTTCTGGAACTTCACTGAGTCCCT A/G 26 0.424 0.115
0.199 0.239 2.0% 198 81.8% 154 43.1% 58 25.0% 80
NA 0 1.5% 66 0.0% 40 3.3% 92
2.5% 40 NA 0 84.6% 78 78.9% 76 43.1% 58
25.0% 80
CV11287912 AB_ASSAYS_ON_DEMAND 12 71.4305 54471828
forward LGD
AGAGCAAGACTCCATCTCAAAAAAGAAAAAAAGAAAAAAAGAGAAAAAAAGAAATTATGGCTCCTTAAGGCCAAT
TTTCTGTCCTGAAATTATCACCAAG[A/
C]AACTAGCCAATAATTATTTACTTCAAACTTTTCAGGATTTCATTCAAAAAAACAGTGCTTGCTTTTAAATGTT
CCCAAATTCCGTTATTTTTTAGAGTTA A/C 891 0.338 0.393
0.013 0.027 18.2% 198 96.8% 156 29.3% 58 86.3% 80
NA 0 16.7% 66 15.0% 40 20.7% 92
25.0% 40 NA 0 97.4% 78 96.2% 78 29.3% 58
86.3% 80
rs772922 AB_ASSAYS_ON_DEMAND 12 71.6866 54690220
forward LGD
ACACCAAAGAAAAAGAAAGATAGGTATTTCTAGCCTCGTTTTACTCTGTAGGAACAAATAAGAGTGTGGGACCCT
GTGAGTGTGGACAATGCCACAGGCA[A/
G]AGGGACTCCCTTTCTTTATTGGTCTGTTGACTCTGCTGAAGAAAGCTTTGAATTCCAGGCTTTGATTTGCTTC
CTCTTCTTAGAAGAGTTATGGACTCTG A/G 1,573 0.228 0.021
0.487 0.025 74.7% 194 8.4% 154 0.0% 58 0.0% 80
NA 0 81.8% 66 55.0% 40 78.4% 88
88.1% 42 NA 0 9.0% 78 7.9% 76 0.0% 58
0.0% 80
rs2629453 AB_ASSAYS_ON_DEMAND 12 71.8663 54872565
forward LGD
AATATGCTCACTTTTCTCAGGGGTGAGTGCAGGCTGAGCTAGAGCCTTCATCTGGAAGGTAGTGGTATTTGTGAG
CACCATACGAGGTAATATATAGAAA[A/

G]CTGCACTAAAGCATCCACACTGCAGTCCGGGACCTTAAACCCTTCTATGGCTGCTTTCTGTGTTGCAGGATAT
GACCCCTTTTCTCTCACCACTCTTCCA A/G extended_map 0.2
0.000 0.328 0.000 41.8% 196 99.4% 156 100.0% 58
100.0% 80 NA 0 34.8% 66 55.3% 38 41.3% 92
23.8% 42 NA 0 100.0% 78 98.7% 78
100.0% 58 100.0% 80
rs2643626 APPLERA_RESEQUENCING 12 72.0027 55012785
reverse MIT
GCTGTGGGTGGGGAGCCACGGGGTAAGAACTGTACCCCTTTGTGAGGGTTGAAAGATGTTGAAGGTCTTTATCTG
GTCTTAACCCAAGGAAGCTGCTTTG[C/
T]AGATAGCCAGTACCGAGGAGTTGTAGTGATGAGACAGCTGGGTCTGGTTGGAGGGATAAAGGGAGAATCTAGG
ATCTAGGAGTAAATGACATATTCTTTC C/T extended_map 0.172
0.009 0.205 0.000 40.6% 192 96.0% 150 91.1% 56
96.3% 80 NA 0 34.4% 64 52.6% 38 40.0% 90
23.8% 42 NA 0 93.2% 74 98.7% 76
91.1% 56 96.3% 80
rs899653 AB_ASSAYS_ON_DEMAND 12 72.76 56170068
reverse MIT
CAGTTGCTTTCCCCAGTTCCCTCAACCATCTTCTGCTATAGTTGCCCAGTCAAGCTGTACCTTGAAGGGAGTTCT
CAGTATTCTACTGCCCATTCTGTAA[C/
T]CCCTACACCAAGCTCCTAGGGTTGGAGTGATATGCACAGTTCTCACCAGGGAGGTAGGCGGGATCTTGCAGTA
ATGGGTATAGGGCTCCCCACAAAACAA C/T 647 0.274 0.005
0.480 0.027 16.1% 168 88.1% 126 94.2% 52 72.9% 70
NA 0 20.8% 48 8.3% 36 16.7% 84
22.5% 40 NA 0 86.7% 60 89.4% 66 94.2% 52
72.9% 70
rs589637 AB_ASSAYS_ON_DEMAND 12 76.0788 61498442
reverse MIT
TTGAGGACAATACCTTATTCCCAATGGCCTCCTGATTCCCACAGAAGGCTTTTTAATTAACCAGCTCAAGATTTG
TGCACATGAATCACCATTGCTAGCT[C/
T]TTCTTTCCTTTGACTTGGAAGGTTATAAAGAGTCTTTATTTATCATACTGATTGCCATCCTCAGGTGAAAACA
CAGCTTTTCCAAGAGCTTTTTCTTCTT C/T extended_map 0.105
0.013 0.254 0.026 65.3% 196 19.1% 152 8.6% 58
36.2% 80 NA 0 59.1% 66 89.5% 38 59.8% 92
66.7% 42 NA 0 21.1% 76 17.1% 76
8.6% 58 36.2% 80
CV12118787 AB_ASSAYS_ON_DEMAND 12 78.3767 63541720
forward LGD
CCCTTGTAGATCACTGTTTTCTTATTAGCAATGGTCATTTTCATGTTTGTTTGATTTTTTTTTAATTGATAGGGT
AAAGAAACTGGAGGAATGCTGATTA[A/
C]ATAATGTACCTGGATATCAGTAGGATTTTTGACAATGCCTCTTGTAAATTCCTTGAGGGCAGTGTAGAGATAA
ATTAGTTAAGATGCTATTATTAGGGTT A/C 879 0.261 0.006
0.484 0.009 25.5% 196 95.5% 154 100.0% 56 100.0% 80
NA 0 23.4% 64 22.5% 40 28.3% 92
26.2% 42 NA 0 97.4% 76 93.6% 78 100.0% 56
100.0% 80

rs3782498 APPLERA_RESEQUENCING 12 78.6072 63746635
forward LGD
TAAAATTGGGATTTCAGTTACTATAGCAGCCATCTTTACCCTAAGCCATACATTCTCAGAGCTGTTATGAAGAGT
GAGGACATATAAAGTAACTTATTCT[A/
G]ATCAAACATTTTAAAAGTAAAAATAACTTTCTTCTTAAAAAGAAACTGTTACCTTTGTCACAGTTCACTCCAT
AGAATCCAGGTGGGCAGATGCAGAAAC A/G extended_map 0.116
0.031 0.057 0.001 18.7% 198 65.6% 154 44.8% 58
70.0% 80 NA 0 6.1% 66 25.0% 40 25.0% 92
45.2% 42 NA 0 70.5% 78 60.5% 76
44.8% 58 70.0% 80
rs1566318 AB_ASSAYS_ON_DEMAND 12 78.75 63938312
forward MIT
AATTCCAGCAATTAATAAGATTATAGAGGGAGAAATGCAAGGAGAGTACAAGTGGTGAAATATATTGAGAATGAT
GGTTTTCATTTTATTGGCTCAGAGT[A/
G]TTAGGGAAAAGACTCAAGAAAGGAAATTAGCCTAATTTCTTTTCCTCAGGAGGAAGACTAATTTCTGTATGTG
AAATTAGTCTCTTTCTGAATGCAAAAT A/G 1,359 0.206 0.065
0.078 0.000 4.6% 196 58.3% 156 27.8% 54 56.2% 80
NA 0 1.6% 64 0.0% 40 8.7% 92
21.4% 42 NA 0 57.7% 78 59.0% 78 27.8% 54
56.2% 80
rs4762083 AB_ASSAYS_ON_DEMAND 12 79.3212 64332599
forward LGD
AATGAGAAAATTGCAGAGAGTCATTTGGTCAATATCATAGAGCCTGTAGGTAGTTGTAGTTGTGCAAGCTCAAAC
ATACCTGCCCTGACTCCGATTCCAG[A/
T]GCCCTTTTCACAATAGCACTTAACTGTACTTTCTGAAGATGCATTTAGTTAATCATTGTTATCTTTATATACT
AACATACTAGGATGGTCTTGGTTGCAA A/T extended_map 0.199
0.159 0.022 0.053 84.8% 198 23.7% 156 70.7% 58
50.0% 80 NA 0 86.4% 66 80.0% 40 85.9% 92
81.0% 42 NA 0 23.1% 78 24.4% 78
70.7% 58 50.0% 80
rs343087 AB_ASSAYS_ON_DEMAND 12 79.6427 64547191
forward MIT_and_LGD
AGAAAGAGGAGAGTGTGTGAGGAAAGAAATGGCAAGAGGTACATGAGATAACTTAGCAGGGAGTTAAATAACTAG
CTCACATAATGACAAAAAAACATTG[A/
G]CACTAAATTGAGGGCCTGCCATTTTTGTTAACTGGTATCCCTGAATGTGGCTAATGGCACAAGCTACGTAGAA
ACAGGCCCTTGTCCTGTTTTTGCAATG A/G 27 0.422 0.012
0.426 0.046 2.7% 332 82.7% 306 72.4% 58 60.0% 80
1.5% 134 1.5% 66 2.5% 40 5.4% 92
7.1% 42 84.0% 150 80.8% 78 82.1% 78 72.4% 58
60.0% 80
rs918003 TSCAF 12 82.8071 66562762 forward MIT
TGAACTTGGTAAAAACAGGGCAGTGAGCAAGCACCTGGTATATTTCATAAAGAAAGTGAACCCATTCCATCGGAG
CAGAGGTTTAGTAAAAAGGTGACGA[A/
G]GAACAGGCTGGAAAGCAGGCTGAGGTCAGATTGTGGAGGCCTGTTACATTTCCAAAACAGTATTTGTAATCTA
TTTTCTTGGGAATGGGAAACTATTGAA A/G 628 0.2 0.050
0.112 0.132 79.8% 332 17.6% 306 41.4% 58 58.8% 80

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        84.3%   134     81.8%   66      65.0%   40      78.3%   92
71.4%   42      18.4%   152     26.3%   76      7.7%    78      41.4%   58
        58.8%   80
rs2108573       AB_ASSAYS_ON_DEMAND     12      82.9653 66712472
forward LGD
CAAAGAAGACTCACTGGCCTGTGGGTTCTTACGTACAAGCTGCTGTTTTTCCCCTCTACCGATCATGGGAATTTC
CAGTTCAGGAGTTTTGTTGGCATGC[C/
T]GTCCTGGACAGAGTGAGAGCAGGAGGACCTGGCCACACACGTGCTTATATATCGCTTTCCTTTCTCCAGTTAG
AGGTTGGAAAGGTGCTTATAGAATCAC     C/T             1,388   0.132   0.005
0.173   0.127   51.5%   196     97.4%   154     94.8%   58      66.7%   78
        NA      0       42.2%   64      47.5%   40      59.8%   92
54.8%   42      NA      0       97.4%   78      97.4%   76      94.8%   58
        66.7%   78
rs2171363       AB_ASSAYS_ON_DEMAND     12      86.4174 70646531
reverse MIT
TTAGGGCAGGAGATGCCTCACTTATTCAAGAGATGTTTATCTGCCTGGAATAGACTGTCCCTCTCATCTTTTCTT
TCCTTCCCCACCTTTGGTGTTTCTG[C/
T]CTTGATTGACATTTCTACCTGGCGGTTGGAGAAAACAAAGAAGAGCTTAAATGCATCAACTTTGCAACTCATT
AGAAATTAGCAGCTCATTGGCATGTTC     C/T             955     0.171   0.006
0.162   0.026   92.9%   196     42.1%   152     51.7%   58      61.3%   80
        NA      0       95.3%   64      90.0%   40      92.4%   92
92.9%   42      NA      0       47.3%   74      37.2%   78      51.7%   58
        61.3%   80
rs460406        AB_ASSAYS_ON_DEMAND     12      86.7585 71298182
forward LGD
ACATCAAGGCTAAGACCATCTTTTAATGTATTGTGGACTGTCATTTATATTGCTTTGATTTTGCAAGAATATTAT
ATACAGTCTATTGGAAAAAAGAGAT[A/
G]TATAGTTCTTTTTGGCTCCTTTTCTTGATATGGCCTCTTAAACTATAGACAATATGTGTTAAGATAATTTTTA
AAAGGTACAATTTAGTATTTTCTAAGG     A/G             365     0.215   0.039
0.126   0.048   7.2%    194     65.8%   146     42.3%   52      39.7%   78
        NA      0       8.1%    62      7.5%    40      6.5%    92
2.5%    40      NA      0       71.6%   74      59.7%   72      42.3%   52
        39.7%   78
rs870384        AB_ASSAYS_ON_DEMAND     12      87.2    71756313
reverse MIT
GATATTGATAAGTCCAACCTGGTGGCACCAGTTCTTCCCTATGTTCTCCCAACACTTTCCTATGTCGGAAAGATT
GCTCACAGATGGCAGCCAGGAGAGG[C/
T]TGGAGCTCAGATTCAGGGCCCTTTATGTAACTGCTGTGGAATAGATGCCAGCAAGTGTGTCCATATAGGTCTT
CTAGGAATATTTTACATAGATGAGATA     C/T             1,768   0.089   0.023
0.255   0.022   71.4%   196     28.8%   156     13.0%   54      13.8%   80
        NA      0       75.0%   64      70.0%   40      69.6%   92
61.9%   42      NA      0       25.6%   78      32.1%   78      13.0%   54
        13.8%   80
rs7969436       AB_ASSAYS_ON_DEMAND     12      88.211  74375460
forward LGD
ATACATTTTCCAATACATTTTTTAAAGAATTGCTTTTATAGACAGGAGTCCTGCAAAAAAATATTTGCCAGTGTT
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TCATATACATTATGTGTGGCCAAAG[A/
G]CTAAAGGATGGCTAAGTGACAAAACTTCTGCTGAACTAAAGATGGCCTCTACACTTGACACAGTCCCATGTTC
TTTGGCCAGACTTCAGATCCCCGACAA A/G 1,494 0.101 0.039
0.321 0.008 28.4% 190 73.9% 142 92.9% 42 83.3% 78
NA 0 33.3% 60 30.0% 40 24.4% 90
47.5% 40 NA 0 70.6% 68 77.0% 74 92.9% 42
83.3% 78
rs2307220 AB_ASSAYS_ON_DEMAND 12 93.4325 78488342
forward LGD
ACTATAGCACAATTCAAGTATTCTCTTAAATTTATATTTAGTCAACTAAAACATGACAGTGACTTTATAAGAGCT
TTCCTTTTAAAAGGTTGCTGTTATA[A/
C]AAAAGTATGACTCTATTACTCTAAATGCTTAGAATAAGTGGAAAGAACAAATGACAGTAGACAAAAACCTTTA
TGAGTGAGTCATCAACACATAAAAGGT A/C extended_map 0.356
0.002 0.443 0.062 93.4% 196 15.8% 152 19.0% 58
42.3% 78 NA 0 93.9% 66 100.0% 38 90.2% 92
90.5% 42 NA 0 17.1% 76 14.5% 76
19.0% 58 42.3% 78
rs2049589 AB_ASSAYS_ON_DEMAND 12 93.4809 78531984
forward LGD
ATATGTTGTTTATAATCTTATTTTTAAAAATTGCTTGCCATTTTGGAAAATGTCATTAACTGTAAAACTATTCAT
ATTTGTGTCACCAATAAAGCATAAT[G/
T]TTATCTGTCCAAAAAAAGTTTGAAAGCCACTGCTATGTTCTGATAGTTTTATGACTTTGCTTGGGGCAACAGA
TTGCACCATCACAATATTATCATCACC G/T extended_map 0.199
0.024 0.191 0.091 35.9% 198 96.1% 154 86.2% 58
70.5% 78 NA 0 37.9% 66 30.0% 40 37.0% 92
28.6% 42 NA 0 94.9% 78 97.4% 76
86.2% 58 70.5% 78
rs872455 TSCAF 12 93.5419 78586931 reverse MIT
GCCTCGCCTTGGGAGTGGGGTTGTAGCTGACGGGGACCTCGGACCGGCGGTGGCTAGAGCGCGGAGCAGGCGATA
CGACGAGCCGACAGGTGGCGGGTCT[A/
G]GCCCTAGTATCTCGACCGCCGCCGGCGCGGACCTTGGTGGGGATGGGGCGGGCGGGCCGACTTGGGGGTGGGG
TCAGTCCTCTCTCCTCCCTTCTAGGGG A/G 87 0.352 0.033
0.352 0.084 83.1% 302 3.4% 290 14.6% 48 26.4% 72
86.4% 132 75.0% 48 83.3% 36 82.6% 86
81.8% 22 2.6% 154 4.8% 62 4.1% 74 14.6% 48
26.4% 72
rs1358476 AB_ASSAYS_ON_DEMAND 12 94.4952 79446137
forward LGD
GTCAATACCACCTGCAATCTTTATAGCATACTTATCTAAACATACAAAGCACATATTAAAAAATACAACACAGGC
TTTTTATCCCACGTGTTGCTTGAGT[A/
G]CCAGCTGTGTACTACATTGACCCTTCTCCAAAACATTGGGAGATTGAAGGGAGGAAAAAAAGAGAGATGATCC
TCTTTACTGTATTTCCACAAATATAAA A/G 1,402 0.22 0.043
0.127 0.031 8.6% 198 69.2% 156 44.8% 58 48.7% 80
NA 0 7.6% 66 5.0% 40 10.9% 92
2.4% 42 NA 0 67.9% 78 70.5% 78 44.8% 58
48.7% 80

rs1185033 AB_ASSAYS_ON_DEMAND 12 94.6154 79554438
reverse MIT
TGAACATCTGCCGCGCACTGGTGAAATAATTTTTGATAAGTTAGTATCTCTGTTAGGCATATCCATATCCACATC
TATAAAATAAGGGTACACAATGTGG[C/
T]TGTAAATAACTAGCATATTAAGATCCATAGGAGTTGTAATAAATTTGTTGTTTTAAGTAATTGGAAAGATAAT
ACAATTTCAGTAATTATGTTTTATACA C/T extended_map 0.214
0.003 0.260 0.000 81.6% 190 17.3% 150 22.2% 54
18.1% 72 NA 0 82.8% 64 88.9% 36 77.8% 90
95.0% 40 NA 0 13.9% 72 20.5% 78
22.2% 54 18.1% 72
rs1920988 AB_ASSAYS_ON_DEMAND 12 94.8774 79790591
reverse MIT
AGCAAAGGGGCAAGTGTAATATGCAAGTATTTGCCTCATGCATTGGGAGAGTGGTATTCATCAGAGGTGGCAGAC
AATAGGAGGAGTAGGTTCTAGGAAA[A/
G]TAATCCTTCTTGCTTTCCTTGTGCTTACCTGGCAGCCTCCCCAGTTCTTATCTAATATTCCTCTTGATCTGAG
TTATACCAGTAAACGCAAACTTCTCTG A/G 1,056 0.25 0.286
0.008 0.096 19.2% 198 88.5% 156 27.6% 58 56.2% 80
NA 0 16.7% 66 15.0% 40 22.8% 92
21.4% 42 NA 0 87.2% 78 89.7% 78 27.6% 58
56.2% 80
rs1163686 AB_ASSAYS_ON_DEMAND 12 94.8917 79803473
forward LGD
AATACTTAGCATTGTGCCTGGCACACAGTGAATGCTTAATACATTTTACTGTGGGTGATAATTACCATATTTTCA
CTCATCAGTCTGATTTTATTGTGTG[C/
G]TATCTTTCAGGAATTCTTCAAAATGTCTTGTGTGCAGTAACACCCTTTTTATCTCCAGTGCCTTTTAACATTT
ATTATTTGCTTTATATCTTTTTGACAG C/G extended_map 0.249
0.284 0.008 0.094 19.2% 198 88.3% 154 27.6% 58
56.2% 80 NA 0 16.7% 66 15.0% 40 22.8% 92
26.2% 42 NA 0 87.2% 78 89.5% 76
27.6% 58 56.2% 80
CV159612 AB_ASSAYS_ON_DEMAND 12 98.07 84153007
forward LGD
ATGAAGATGGTAAAGATGAAATTAAGAAAATAGAGTCAAATAGAAAGCAACTACAGTATGACAGTTTCTAACATT
ATGTGGCTCACAGAAGAAAATTAAC[A/
G]GGAAAGTTCCATTGAAAGAAATACGTGTTGAATGAATATGTAAATAGAAGAAAGATTTTAAATTAAATTTTTC
AAAGACTAAAAGTGATCTTGAAAATCT A/G 664 0.289 0.001
0.434 0.005 23.7% 198 96.8% 156 96.6% 58 100.0% 80
NA 0 19.7% 66 12.5% 40 31.5% 92
16.7% 42 NA 0 97.4% 78 96.2% 78 96.6% 58
100.0% 80
rs930975 TSCAF 12 98.8826 86760451 forward MIT
TTCATAAAGCAGAATATATTCCTATTTTTAAATTCAGAGATTATGCCTTTTTTTCTGGATAAAATTTCTTTTTAT
TATGAAGCAGTGGCAAGAATAGATG[A/
G]TAAATGTTTTTCATGTCTTTTTTACCCAGAATTTAAAATTGTCAAAGCCCACTTGTCTCCTTTTTTTCTTTTT
GAAATTTTACTGGACTGTGAAATGCAG A/G 1,578 0.251 0.050
0.163 0.017 83.8% 320 15.1% 304 37.9% 58 27.5% 80

82.8% 128 88.7% 62 81.6% 38 82.6% 92
73.8% 42 13.3% 150 15.8% 76 17.9% 78 37.9% 58
27.5% 80
rs1061981 TSCAF 12 99.1554 87389757 forward MIT
TTTTTACAAACAAAGGCATTTCAAGACTAGTTAATGGAAAGCAGCAACATTATGAATTGTGTGATCAAACTCCAC
AAATGAGCTAATTAGAATTTCAATC[C/
T]GAATGGTTTTATTTTAAAGCCAATTTCAAAATAATATTGTTTCAAAGATAAGCTGGTTTACTTTAGATTTCTT
ATCCCACTTTCCAATTTTAAAGTGTAA C/T 253 0.263 0.024
0.549 0.004 83.3% 192 12.7% 150 1.8% 56 17.5% 80
NA 0 78.1% 64 94.7% 38 82.2% 90
76.2% 42 NA 0 10.8% 74 14.5% 76 1.8% 56
17.5% 80
rs2046970 AB_ASSAYS_ON_DEMAND 12 99.188 87465010
reverse MIT
TGTTTCCTCACTCTTTTTTCTCTCCCTTCTTTCCTTGTTCTTTCCCTTCTTTTTTTTAAAAACCTGGAAATAATG
TTATATACCTAATTTGTAATCACGA[A/
T]TCACAATCACTCAAATAATTGTACTATTAGAAAACAATGTTTTTCAGAATTAACACGGTTTCCTGCTCTAATT
TTAAGAAGTAAATTATATTTCTCAAAG A/T extended_map 0.222
0.014 0.456 0.023 75.3% 198 9.6% 156 1.7% 58
22.5% 80 NA 0 75.8% 66 87.5% 40 69.6% 92
75.0% 36 NA 0 11.5% 78 7.7% 78
1.7% 58 22.5% 80
rs1920741 AB_ASSAYS_ON_DEMAND 12 100.4592 89860637
forward LGD
AACGTATCTTCGTGCATTTCCAGAATGTTGTTATTCTAAAAAAGATGAAAATAAATTATGACAAGATATAACACA
TTCTTAGTATTGATTGATAGCGCAG[C/
T]CCACTGTGCTTCACCCTTGTTTTTATTCTTTTGTTATTTTCCTCAATCAAAATTACTTAATGTATATGCCAAG
CACTTTCTAAGCAGTGGGGGTAAATTA C/T extended_map 0.083
0.015 0.054 0.003 67.3% 196 26.0% 150 39.7% 58
20.0% 80 NA 0 65.6% 64 70.0% 40 67.4% 92
69.0% 42 NA 0 27.8% 72 24.4% 78
39.7% 58 20.0% 80
rs1920776 AB_ASSAYS_ON_DEMAND 12 100.5628 89954968
forward MIT
GATAATTTTTTATTCATTATAATATAACACATGTTTTGCATATAGTCCCTTATGAGACATTCTGTTACACTGCTA
CTTTTTTCTTTAACACATATCTAAA[C/
G]TAGTGTGTCCTCCACTTCTGATACTTGATGAAAAAAAATTATGCTTCTTGAGAAAAGATGCAAACAAAAAATA
TTTCATTTAGGTGTTATTATGTGGATT C/G 1,883 0.108 0.027
0.060 0.000 29.6% 196 76.6% 154 58.6% 58 78.2% 78
NA 0 36.4% 66 31.6% 38 23.9% 92
40.5% 42 NA 0 75.6% 78 77.6% 76 58.6% 58
78.2% 78
rs3138179 SEATTLE_SNPS 12 100.6895 90070375
reverse MIT
CAAGAACAAAAAAAATTGTGCATTTACTAGGCAATTGAATGTTCTCCAAACCAATATTCCTTTGAACAAAATGAG
TTTGTTTGATTTGAGAACAATGAAG[C/

T]ATTTGGCTATTTTATAATCATAAGTGATTCATACCCCCACACACTTAGCCCTCTAGAAATGGTGCCAGAAGAT
GAAACACATTTAATTTTGCCATATAGA C/T extended_map 0.087
0.008 0.088 0.000 53.4% 178 92.1% 152 86.2% 58
91.2% 80 NA 0 51.6% 62 46.2% 26 56.7% 90
44.7% 38 NA 0 93.4% 76 90.8% 76
86.2% 58 91.2% 80
rs2304439 AB_ASSAYS_ON_DEMAND 12 103.8387 92573458
forward MIT
GCCTCTCTGTTAGGTCAATTGTGTGCGAGGCCCTGATGGAGTTACTGTGTTAAAATGCAATGATTCAATTACTCC
ATTACTTAGATACCCTTTAAGTGAC[A/
G]CTACGGTTGTCCATCTCCCCGCTATTGAATTGTTTACCCACAGTAAGCATGGCGGGAAGAGCTTCGATCCGAC
CCTTGAACGCTCAATAAAAATGGCGAC A/G 455 0.258 0.224
0.037 0.105 72.2% 198 3.2% 156 50.0% 56 30.8% 78
NA 0 72.7% 66 80.0% 40 68.5% 92
76.2% 42 NA 0 3.8% 78 2.6% 78 50.0% 56
30.8% 78
rs7975526 AB_ASSAYS_ON_DEMAND 12 105.4643 93545307
forward LGD
AAGAAGAAATGTCTACCTGTGGGTAAGCACATTTCTTCAATGTTTATTCCAAATGGAGTTTCTGGTTATTTTCAC
AGCAAACTGTTACGAAACTTATACA[C/
G]AAAGTGCAAAAACAAGAGAATTGTAAGATTGAGATGAGTGCATGAGGTATTATTCCACCAAATATATTCAATC
TGTAAAAACTCAAATCATCCTTCCAAA C/G 771 0.169 0.016
0.148 0.008 77.8% 198 19.9% 156 32.8% 58 28.7% 80
NA 0 71.2% 66 95.0% 40 75.0% 92
88.1% 42 NA 0 24.4% 78 15.4% 78 32.8% 58
28.7% 80
rs2279793 AB_ASSAYS_ON_DEMAND 12 105.4648 93545591
forward MIT
CTACTTCAAATTATGAGTGAAGACCAAAATCCTGCACAAAGGGCCGCGACACAACCCCGTCACTATTGCTACTAT
TTCCATCCAGTTGGTCTCTCGATCT[C/
T]GGAAGTGGCAGGCCAGAATCTGAGCCCGGCTCTCCCTCCGTGAACTTTACACAGAGGCTGACACCCAAATCCC
CAGTTCTCGGACAAGCGAGTAAGTAGT C/T extended_map 0.148
0.015 0.126 0.007 25.3% 178 79.9% 154 67.2% 58
71.3% 80 NA 0 30.6% 62 0.0% 26 28.9% 90
17.5% 40 NA 0 75.0% 76 84.6% 78
67.2% 58 71.3% 80
CV11167957 AB_ASSAYS_ON_DEMAND 12 107.4112 94641646
forward LGD
AAGCTGTCCCAGAGCTCACTAATGCTATATTTATTTCTTTTTCTGGCTTTTTTTTCTCCCTGTGTTTCATATTGG
GTCATTTCTATTGCTACGTATTAAA[C/
T]GTCACTAATCTTTTCTTCTACAATGTCTAGTCTACTAATCCTGTTTGGTATGTATTTTTCATCTCAGGCATCA
GAATCTTCAAAAATGGTCATTCAACTT C/T 1,278 0.137 0.067
0.037 0.033 17.7% 192 68.7% 150 37.9% 58 47.4% 78
NA 0 15.6% 64 15.0% 40 20.5% 88
31.0% 42 NA 0 68.9% 74 68.4% 76 37.9% 58
47.4% 78

rs2025801 AB_ASSAYS_ON_DEMAND 12 111.9817 99376538
reverse MIT
AGCTATGTGTGATAAGGTACTTACTCTTTAAAAACGGCATCTCAACATCAATTTCCCATTCATTCACTCATTTAT
TTTGTCAGTGCACATTTATTGACAG[A/
G]CACTAGACATAGTAAAAAATAATGATTTTTCAGAAAGCTTAGTGGAAAAGTCAGGCAAGAAAAACCCAATGGT
AGTAGTGTGAGGATTGCTACAACAGAG A/G 948 0.182 0.014
0.228 0.061 53.1% 194 0.0% 154 3.4% 58 13.8% 80
NA 0 54.7% 64 62.5% 40 47.8% 90
64.3% 42 NA 0 0.0% 76 0.0% 78 3.4% 58
13.8% 80
rs2242138 AB_ASSAYS_ON_DEMAND 12 112.7591 100251372
forward LGD
AACAAGGAAGAAATAGAGAGAACAATTAAAAATATCCAAGGAACCATAACCGGGGATATTCTCCCCAGGCTACAT
AAATGCCTTGCATCTACGGTAATAA[A/
C]TTTATTCGGGGTCCAGCAGGTCTGTGTGAATTCTGGTGTTGGTGGAGCCCTGTCACACTGAGGCTCTTGGTGA
TTATTGATTGATTTCAGCTTTTAGATT A/C 586 0.221 0.154
0.054 0.334 65.6% 192 2.6% 154 37.9% 58 62.8% 78
NA 0 64.1% 64 65.0% 40 67.0% 88
66.7% 42 NA 0 1.3% 76 3.8% 78 37.9% 58
62.8% 78
rs3829327 APPLERA_RESEQUENCING 12 113.2795 100566865
forward MIT
GGGAGAGGAGGTAAATAAAGAATGAAAGAGTATTGGAGAATGATTAAGCAATCTCCTGCTGTCAAAATAGAGAAA
TCTATAGAAACCGTCACAGATTTTC[C/
T]TTCTGCATGAGACAAATGAGATATAGTCTTGCCTGAAGCTCAGCGACTATGGTGGGCAGGGAAGAAACATCAA
GGAGATACCAAATGAAGAAATGCTTGA C/T extended_map 0.076
0.030 0.250 0.084 64.8% 176 25.0% 152 8.6% 58
58.8% 80 NA 0 66.1% 62 35.7% 28 73.3% 86
80.0% 40 NA 0 24.4% 78 25.7% 74
8.6% 58 58.8% 80
rs1722402 AB_ASSAYS_ON_DEMAND 12 114.6412 101670278
forward MIT
CTAAGTAACCTGGTTGGTAGGTGGAGAAGATAAGATTCAAACTCAGGTCTGTCTGACATCAAAGTCCAATCCATT
TCTATTGTAAGATGGTCAGCTCAGA[A/
G]TGGAAAACGCATTTGGAAAAATGTCTGCTCTCACGTTTGCTGGGTATAGTGTCTGCATTTTGTACGCTAATAT
GTAACAGCTATCCTGGAAAAAATATCA A/G 386 0.217 0.097
0.055 0.001 2.5% 198 54.6% 152 18.5% 54 51.2% 80
NA 0 1.5% 66 2.5% 40 3.3% 92
0.0% 42 NA 0 59.2% 76 50.0% 76 18.5% 54
51.2% 80
CV25770596 APPLERA_RESEQUENCING 12 115.9453 102626378
forward LGD
CATTGGTAAAGCATTCTGTGAGAAGCAATTTTGTGTCTATTTCACTTTGCACTCATTTCTTTTTTGTTTTTGGTT
GATTTCAGAGCACGGTGTATATAAA[C/
T]AATAAGGCTAAGATCATATCCAGTGATATCATCAGTACTAATGGGATTGTTCATATCATAGACAAATTGCTAT
CTCCCAAAAATTTGCTTATCACTCCCA C/T 1,484 0.122 0.014

0.288 0.016 64.1% 198 14.7% 156 5.2% 58 5.0% 80
NA 0 63.6% 66 50.0% 40 70.7% 92
78.6% 42 NA 0 10.3% 78 19.2% 78 5.2% 58
5.0% 80
rs2436625 AB_ASSAYS_ON_DEMAND 12 119.1274 104905083
forward MIT_and_LGD
AAGCTTTGGGGGTCTCCTCACCAGGCTTCCCTTGGTGAGCCAAGCCGCCACTAGGCACTGACTGTCTGTGAATGC
CTAGGATCTATGCATTGGGCACTTA[C/
T]AGATGAGAGCTGCCCTCCTCTCCTTCACCCCTTCCCACAGCCCAAGGTTGATGTCAGCGCTTCATGAGGTCCA
GGGGACTCATAAATGTCAGCTGTTCTA C/T 1,246 0.119 0.071
0.027 0.029 29.3% 198 78.6% 154 48.3% 58 60.0% 80
NA 0 13.6% 66 32.5% 40 39.1% 92
16.7% 42 NA 0 78.9% 76 78.2% 78 48.3% 58
60.0% 80
rs741404 TSCAF 12 121.6354 106237629 reverse MIT

GAAGAAACTGAGGCCCATGGAACCCTGCATTCTCTTTCTTCTTACCCCCCTCAGTCTTGCACTGACTTGGTCAAT
GTCTACATTTCCTGGACAGCCTCAC[A/
G]GGGTTGGGGCAGTGGCATTCTCATTCACTGCTAGACTCCCCTGCCAGGGAGTCTAGTCAACCTCCAGGTTGAC
CCTCAGCTCCTGGGACAAAGCCTGTGT A/G 555 0.167 0.030
0.403 0.003 12.2% 304 65.9% 264 84.5% 58 72.5% 80
11.3% 106 9.1% 66 12.5% 40 15.2% 92
33.3% 42 68.8% 112 68.4% 76 59.2% 76 84.5% 58
72.5% 80
rs628825 TSCAF 12 125.9976 110363803 reverse MIT

ACTGCTTACTGTTTTAAGCCGAGTTTTAAAATTGATGATCATGATAGAAGAGATAAATAAACTAAAATTTTAGAG
AAATTTAAGAAGGGTATGTACATAT[A/
G]TTTTAGTGGTATCGGGGTGTATAGGGATTAATAGTCTTCTGTTTAAATTTTTTTTTTCTAATTTTAGAAGTAA
TGTAGAAAATTCGGGTCAGGGAAAGGT A/G 851 0.169 0.050
0.084 0.393 23.4% 312 81.1% 264 56.9% 58 10.0% 80
26.3% 114 28.8% 66 20.0% 40 17.4% 92
21.4% 42 80.4% 112 81.6% 76 81.6% 76 56.9% 58
10.0% 80
rs593226 AB_ASSAYS_ON_DEMAND 12 126.0249 110405839
reverse MIT
TATTTTACTTTATTTATTTGATTTTGATGAAGTTTGATTATTTCTAGTTTGCTTCCTTCTATGACCCCTACCTGT
TGTGGGTCTCCAGGCAAGCAGTGCA[C/
T]AGGTAGAGCCATCCTTAGGTAGCCTTTAGACTTAATATTAGGTGAGCTCTCCCCACAGATAGCCTCTCCTTTA
TTTGAATGGAATTATATTTTAAGTTTG C/T extended_map 0.201
0.079 0.075 0.401 16.8% 196 78.8% 156 46.6% 58
7.5% 80 NA 0 26.6% 64 12.5% 40 12.0% 92
7.1% 42 NA 0 80.8% 78 76.9% 78
46.6% 58 7.5% 80
rs2339941 AB_ASSAYS_ON_DEMAND 12 126.4807 110902717
forward LGD

ACCACCCTGGAGACATTCCTTTTCTTCACATTCATTGTTGGGCAGTTTTTTATAATTGGTCAACTGAGTACAGAC
CGTATGGTTTTCCTACAAAAACCTC[G/
T]GCTTAACCAACAAGTAGAGCCCAAGTCTGCTTGCAGTGAAAAATATGGTGCAAATCCCATCCTTTCATTATGG
CACAGAGAAGCTCTATTTATTGCTACT G/T extended_map 0.174
0.130 0.026 0.332 75.0% 196 16.2% 154 56.9% 58
82.5% 80 NA 0 62.5% 64 82.5% 40 80.4% 92
81.0% 42 NA 0 16.7% 78 15.8% 76
56.9% 58 82.5% 80
rs1468253 AB_ASSAYS_ON_DEMAND 12 126.8959 111187995
reverse MIT
GGTATTTCTTTATACCAATGCAAGAATGGCCTAACACATATGGAGAAAGGGTCTTTGTAGATGTGGAATCATCAG
TATTTAAATGGAATCATAAGTGTCT[A/
G]CATAAGACAGAGGCAGAGAGAGATTACACAAAGAAGAGATTAAAGTTATGTGGCCACAAGCCAGGGAATGCTG
TTGGCCAACAGAAGCTGGAAGAAGCAA A/G extended_map 0.217
0.116 0.059 0.348 80.9% 162 15.8% 120 54.0% 50
83.8% 68 NA 0 72.7% 44 88.2% 34 82.1% 84
90.0% 40 NA 0 17.2% 58 14.5% 62
54.0% 50 83.8% 68
rs741334 TSCAF 12 127.2005 111397281 forward MIT

GATACTGGGTCTTGGGAAGCGAATGAGATGTTGTGGTTCATGGGACCAAGAGGAAAGTACAAACCCCCTTTTAAC
CACTCAGCTCTGGCCAATTATTGCC[A/
G]TGCAGGAGTGTGGGCTCCTAGTGGCAGGGGCTCTGAACTTGGAAGAGAAGTAGGCAATCCAGAATCTGAAATT
ATGAAATTTCAAGATTAAATCATATTG A/G extended_map 0.223
0.148 0.037 0.281 88.5% 182 25.3% 154 70.7% 58
86.3% 80 NA 0 82.8% 64 93.3% 30 90.9% 88
95.0% 40 NA 0 21.1% 76 29.5% 78
70.7% 58 86.3% 80
CV2561829 AB_ASSAYS_ON_DEMAND 12 127.6142 111681550
forward LGD
CTCTCTCAGACTGTGTGTATCTTAAAACATTGATTTATCCCTTGTTCTTGAAGGTTGCAGCATTCTAGGTGGACT
TTGAAGGATTGGTTGTGCTTTCAAG[C/
T]GTCTGTTAAGAGTCTTAAGCCAACAAATTGCCCTTCCTCTGTAGATGGTTTTTCCTTCCACGTAAGCCCTTCT
TTTTGATGTTCTGTAGTATGATGTGCT C/T 569 0.178 0.111
0.050 0.009 38.8% 196 95.5% 156 65.5% 58 100.0% 80
NA 0 30.3% 66 36.8% 38 45.7% 92
33.3% 42 NA 0 96.2% 78 94.9% 78 65.5% 58
100.0% 80
rs3803088 AB_ASSAYS_ON_DEMAND 12 133.5967 115562003
forward LGD
AATATTTGAATAATTAACTGCTTTGCTCATTGGTTGTAACTGGCAAGTCATTCTCTTTACTACATTAAAGTCTGC
ACTTTCATTTTACAGACAGTCCTAC[A/
G]GTTCAACTCCAACATCAGGGACTGAGTCGTACACAGGAAGATCACTGAGTAGGTTCTGTGGAGACGCAGTCGG
CCCATATGCACGTCACCACTCGGCTCC A/G extended_map 0.242
0.052 0.545 0.004 98.5% 198 44.8% 154 19.0% 58
52.5% 80 NA 0 100.0% 66 100.0% 40 96.7% 92

97.6% 42 NA 0 42.1% 76 47.4% 78
19.0% 58 52.5% 80
rs4766807 AB_ASSAYS_ON_DEMAND 12 133.8057 115713404
forward LGD
TTACTGAGTTTGGAAACACTTTCTGCCTCTTACTCGGGCCCTAATGGATACATCTGACTGCATGAAAGATATGAG
TCATAAACACATGGACCCCATAGTC[A/
T]ATGTCAGCTGACAGTCACAAGGATCCAAATCAGTGACTTCAAACCTTTTGCTTTTTTTTTTTTTTTTAAAGAA
ACTGGGTCTCGCTCTGCCACCCAGGCA A/T 282 0.255 0.110
0.713 0.018 97.0% 198 37.8% 156 5.2% 58 53.7% 80
NA 0 100.0% 66 97.5% 40 94.6% 92
100.0% 42 NA 0 34.6% 78 41.0% 78 5.2% 58
53.7% 80
rs2291916 AB_ASSAYS_ON_DEMAND 12 134.0327 115877934
reverse MIT
TCTTCCCCTAAATGTTTACCACCTGTGAAGAGGTGCCTGGCGTTTTAAGATGGATAAAACTGGTTCTTCCCATTT
TTCTCCTTGCTCCCAACTGAGGCAC[A/
G]TCCCTAAACATGGTTATAGGGAAAGGCCAGTGCGAGGTCGTAGTAGTGAGTGGCCATGGCGTCACAGGATGAA
CGGCAGACAGGGAGAGGGCTCTGGAAG A/G extended_map 0.194
0.085 0.583 0.015 90.4% 198 33.3% 156 5.4% 56
47.5% 80 NA 0 90.9% 66 95.0% 40 88.0% 92
100.0% 42 NA 0 35.9% 78 30.8% 78
5.4% 56 47.5% 80
CV8188365 AB_ASSAYS_ON_DEMAND 12 134.0367 115880826
forward LGD
TCCCTCTCAGGGACGCCTCCATCCCCGGCTCCCCTAAAGGTAGAAGATACTCGAGCATGCTGCCAGGGGAGCTGG
ATGGTGAAACACCTGAAGATCTCAT[A/
G]TCGCCTCTCAAAACACTGTCGGACTTGCTTTCTGCTTTATGATGTCCGTAGTTGTTCTAATATTAAATGCTTT
GAATTTCTTTATTGGTCAAGTTATTTT A/G extended_map 0.193
0.087 0.586 0.010 90.3% 196 33.3% 156 5.2% 58
45.0% 80 NA 0 90.9% 66 95.0% 40 87.8% 90
100.0% 42 NA 0 35.9% 78 30.8% 78
5.2% 58 45.0% 80
rs2293048 AB_ASSAYS_ON_DEMAND 12 134.3314 116076778
forward LGD
AAATGGTATAGCTGGGGTGACTTCGTGCCTGTGCAACCACCCAGGGTTCTATTGGGTAGGGGTGGGTCGGATTCG
AATCCTTCCCTATTGAAGGGTGCTT[C/
T]TGGTGGCTTGCTGGGCTCCTGGGACGGGCACTGTGCATTTTAATTGCTTTATCTAGGAGGAAAAATACAGGGC
AGAGCTTGGGTTATCTGACTTACAACC C/T 1,817 0.065 0.299
0.057 0.001 45.9% 196 11.7% 154 74.1% 58 8.7% 80
NA 0 42.4% 66 42.5% 40 50.0% 90
52.6% 38 NA 0 12.8% 78 10.5% 76 74.1% 58
8.7% 80
rs1969121 AB_ASSAYS_ON_DEMAND 12 136.1266 116614878
forward MIT
CTATTTAAAGAGTGTGTAGTGGTTCTGACAGCTTTACTATTCTCACCCTTTGTACAGTGAGGAAGTGACATTTAG
CTGAAGCTAAATAGGTCTAAGAGCC[A/

G]GAACAGAACAGAGAATCAAGTTAAGACAAGTTTCTCCATCGCATGGTAAGCTCTGGATTGATGTATTTGCTGA
GGGAATACAAGCTCGTTGTCAAGTTAG A/G 644 0.21 0.090
0.063 0.067 91.2% 194 32.1% 134 68.0% 50 62.9% 70
NA 0 95.5% 66 92.5% 40 87.5% 88
92.9% 42 NA 0 28.1% 64 35.7% 70 68.0% 50
62.9% 70
rs4105713 AB_ASSAYS_ON_DEMAND 12 140.251 118865273
forward LGD
CCTGAAGGCCAGGCTCAGTTGCCACTTCCTTCATGAGAACTTTGCTGTTCTTCTCCCACCAGCTTTGATCTCTCC
TACTTACCAACTAGAGTGCTTTAGT[A/
C]CCTTTCTTTTGTCATTTACATTCTGTCATCTCTTACGGTTAATTCATGTATTTGACTCCATTGAGTCAAGGAC
TGTGCACTCAGGGCACCTCCCCCACAG A/C 1,656 0.183 0.023
0.145 0.049 21.6% 194 81.8% 148 66.1% 56 57.7% 78
NA 0 18.8% 64 32.5% 40 18.9% 90
14.3% 42 NA 0 83.8% 74 79.7% 74 66.1% 56
57.7% 78
rs2238160 AB_ASSAYS_ON_DEMAND 12 140.3552 119215736
forward MIT
CAGGGGCAGCTGCGGGGAATCAGATGAGATAACGCGGGTGAAAGCGGCCCTTTGTGAACTGCCCTTCATTGCACA
AACAAAGGTGCTATTACCAGCAGGC[C/
T]ACCTTTGCCCTTGGCTGTGAACAACCAGAGGGAAAAATCAAGATGCATCTGGGTGTACTCCTGGGTACTATAG
CTGTACGACAAACAGCAAAAGACAGGG C/T 1,455 0.225 0.001
0.242 0.002 1.0% 196 50.7% 150 46.6% 58 45.0% 80
NA 0 0.0% 66 0.0% 38 2.2% 92
2.4% 42 NA 0 40.3% 72 60.3% 78 46.6% 58
45.0% 80
rs208290 AB_ASSAYS_ON_DEMAND 12 141.2008 120006009
forward LGD
GAGGGGACCTGGAGTGGTGGGTCAGGTCTTAAGAGTTCCTGGGGGAGGTGCAAGTCGGAAGAAGCAGAAATGCGG
ACCCTGGGGTGTATTTGAGCCCACA[A/
G]ATATCTACTGAGCACCTGCCTCTTTTGTGGGGTAGGGCTGGGCTGAGTGGAGGAAGGGAGAGAACACATGGCA
GTGTCTCTCCATGGCCACCAGATCTTT A/G 1,176 0.199 0.061
0.541 0.007 10.7% 196 69.5% 154 93.1% 58 60.0% 80
NA 0 7.6% 66 2.6% 38 16.3% 92
2.4% 42 NA 0 69.2% 78 69.7% 76 93.1% 58
60.0% 80
rs2942064 AB_ASSAYS_ON_DEMAND 12 141.2485 120169613
forward LGD
TGATATTTGCCATCATTCATTGCTCTGTCAAACTGTATTTTTTGATCACATAGCATCCATAACTAGTAAGAAAAA
AAAACACAATTAAGTACAAAATGGC[A/
G]AATGTTCATCTTAATGAGTATATGAAAGTATTTTGGATTGCTTAGCAAATATCCTTACAATAATTCACACATA
TTCTTTTTTGGGGGGATTTAAAATTTT A/G extended_map 0.207
0.014 0.214 0.007 26.8% 198 90.3% 154 81.0% 58
83.8% 80 NA 0 22.7% 66 27.5% 40 29.3% 92
11.9% 42 NA 0 91.0% 78 89.5% 76
81.0% 58 83.8% 80

rs2280067 AB_ASSAYS_ON_DEMAND 12 141.2516 120180201
forward MIT
ATCAAATTGGTAAAGGGAATTTCCACAGATGTTATTAGGATACAGGGAACAGAGAGAAACCTACCACACAGAATT
TAGTGGTCTGATTAATAATTAAAGT[C/
T]ATATGAAACTGCCAAGAATAAAACCACACTTTGAAACCCATTCTAAATCTATCGCTGGTTAATGACAGAGGTG
GGCAGAAAAAGAGACAAAGGCTCGACC C/T 436 0.281 0.031
0.254 0.013 19.8% 182 92.8% 152 78.6% 56 84.6% 78
NA 0 16.1% 62 20.0% 30 22.2% 90
10.0% 40 NA 0 94.6% 74 91.0% 78 78.6% 56
84.6% 78
rs2270788 AB_ASSAYS_ON_DEMAND 12 141.7398 121851875
reverse MIT
CCCTGCTTCTCCCGGTGGGGCAGAGGACCCGGTGCCTGCCTGGCAGATGTGCCCACGGAGGCCCCCAGCTGCCCT
CCGAGCCCAGGCCTGCAGCACTGAA[A/
G]GACGACCTGCCATGTCCCATGGATCACCGCTTCCTGCATCTTGCCCCTGGTCCCTGCCCCATTCCCAGGGCAC
TCCTTACCCCTGCTGCCCTGAGCCAAC A/G extended_map 0.199
0.014 0.208 0.032 70.4% 196 8.4% 154 17.2% 58
23.7% 80 NA 0 79.7% 64 60.0% 40 68.5% 92
90.5% 42 NA 0 3.9% 76 12.8% 78
17.2% 58 23.7% 80
rs3759115 AB_ASSAYS_ON_DEMAND 12 141.7544 121901805
forward LGD
CTCCAGGCAGAGCCCACAGTACCACAGTGTGCCCACACCACCGGTTACTGGCTCCTGGATGAGGGGGCCAGAGAG
GAGTGAATAACTTCCCAGACACTTA[C/
T]CTCCAGGGCAGGGTGCCTTCCAGTAGCCAAGGGAAGCCTCCAGAGAGCACAGATGTGAACCCTCAGCAGCAGG
CATCACCCCCCAGTGGACTCGGGTGGG C/T 770 0.25 0.017
0.209 0.000 94.9% 196 33.3% 156 48.3% 58 31.2% 80
NA 0 95.5% 66 97.5% 40 93.3% 90
97.6% 42 NA 0 33.3% 78 33.3% 78 48.3% 58
31.2% 80
CV1427295 AB_ASSAYS_ON_DEMAND 12 143.8491 123144749
forward LGD
CCTGCTGTCCCCCGTGGGAGCCAGCTATCCCCTCTTCAGCCAAGAACAAAGCACTGAGCATCACCACGCACTAGA
CGCTGGGGTGTAAGGGATGCAGACC[G/
T]TGCCTCCCCATCCGCGGGGGCATCGTGATCTGGGTAGGGCCAGAGAGCAGGGAGAGGGCCGCAAACCTAGAAA
TAAATGCGTAAGCAAAACCTGCTAAGT G/T 205 0.306 0.006
0.292 0.038 0.5% 198 60.9% 156 51.7% 58 37.5% 80
NA 0 0.0% 66 0.0% 40 1.1% 92
0.0% 42 NA 0 57.7% 78 64.1% 78 51.7% 58
37.5% 80
rs325082 TSCAF 12 145.6969 124176557 forward MIT

TTTCCTTTTTGTACTTTCATGCTTTTATTTCATTTGGGTTTCTGTGGAGATGGAGGGAGTAAGTGTGCTCAGTCT
GCTACTTAAAAGTAAATTCCGTATC[C/
T]TTCTTTTTGAAGGAAGAATGTCAATATTTCTCTTAGATTGAATAAGCAGCACATGTTCATTCTAGAAAACTTG
AAAATACGTAGAAAAATATGGCAGGAA C/T 1,716 0.142 0.000

0.220 0.007 71.4% 290 18.0% 244 16.7% 54 10.3% 78
70.0% 110 68.3% 60 70.6% 34 75.6% 86
82.5% 40 19.4% 108 18.6% 70 15.2% 66 16.7% 54
10.3% 78
rs1117605 APPLERA_RESEQUENCING 12 147.9844 124807669
forward MIT
TGAGATCCAAAGTGATTGGAGCCATAAGATGCAGGGAGCCTGGGCTGTAGATTTACTGCCTGGAGGAAGCCACCT
GCCAACCAGGAGCATTTGCCTTGGT[C/
T]ACATGGACGAGAAACAAACTTCTGTTTGTTTCAGACACTGAAATTTGGAGATATACTTATTCTTGCAATCCAG
CATTACTTTAAGAATACAAAAATAATA C/T 1,533 0.067 0.015
0.175 0.007 89.4% 188 58.5% 130 43.8% 48 48.6% 72
NA 0 90.3% 62 97.4% 38 85.2% 88
90.0% 40 NA 0 57.6% 66 59.4% 64 43.8% 48
48.6% 72
rs1398103 APPLERA_RESEQUENCING 12 149.7496 125502978
reverse MIT
TACCAATCCCACCTAGCACTTACTATACAGGCGAATGTAGATAAGTGATATAACTCTTATAAGTTTTTATTTTTT
TGTCATTTTGGAAAGTGGGAAAATT[A/
G]AATATCTATCCATATATTAAGTGAGTATAGCTAAGTTCATAACCCAGGCAGTGTTAAATACGTGCTATTTTGC
CTTCTCCTTCCCAAAAGAGATCCTCTC A/G 871 0.141 0.042
0.071 0.013 28.0% 186 81.3% 134 59.3% 54 69.7% 76
NA 0 21.0% 62 36.1% 36 29.5% 88
35.7% 42 NA 0 82.8% 64 80.0% 70 59.3% 54
69.7% 76
rs1488152 AB_ASSAYS_ON_DEMAND 12 154.3658 126780217
forward LGD
TAAGTAAAGAAGCTATGGCCTCACCCCGATATGTTGCTGGCAGGAGAGACAACAGCAAACACAGGAAACTCAAGG
AAAATCAGTGTGGCTAGAGACAGAT[A/
G]CTGAACTGGAGCCTGGAATGAGTTGAGGCTGGAGAGGGAGGTAGGGCAAGACTCAGGCTGTGGCTGGGCTGAG
TGGCTTTGTCTATTCTCCAAGAGCAAA A/G 535 0.172 0.001
0.286 0.002 20.7% 198 78.8% 156 82.8% 58 83.8% 80
NA 0 19.7% 66 10.0% 40 26.1% 92
11.9% 42 NA 0 76.9% 78 80.8% 78 82.8% 58
83.8% 80
CV25964951 APPLERA_RESEQUENCING 12 154.3909 126787931
forward LGD
GAATAAAAGTCGGCGATTACAGATGGCAGAGAAGAGAGAGAAAGATAGGATGTAGGTGGATATTGATGGAACTAA
GTTTCTATTGCACAAGTTCTACCAC[C/
T]AACCTCTGGACTTCATGATATGTGAGGGAGAAATAAACTCCTATTTTAGAAGAGATCTATGTTACCTGCAACT
GAACGGAATGCTTAATTGGCACATCCT C/T extended_map 0.121
0.001 0.215 0.002 29.9% 194 79.6% 152 83.9% 56
83.8% 80 NA 0 20.3% 64 26.3% 38 38.0% 92
30.0% 40 NA 0 78.4% 74 80.8% 78
83.9% 56 83.8% 80
rs901419 TSCAF 12 160.4808 127939350 forward MIT

CCCGAGGTTGCTTAGTTACTAAGCTGCAGATCTCGGGTTTGGAGGCAGGCTTTCTGGCGGAGGCTTTCTCACTCC
AAGGTAGTTGCTTGTTTCATTACCT[C/
G]ATGCTGTTTTTTATTTTTTCTACCTAGGCTGTGACAGTTCATTTATCATATATTCCAGGGACAATGGCATTTG
TACTGATAGTGGAATCGTAGAAAATAG C/G 1,436 0.062 0.075
0.000 0.023 12.9% 194 43.9% 148 13.8% 58 26.3% 80
NA 0 10.6% 66 5.6% 36 17.4% 92
14.3% 42 NA 0 48.6% 70 39.7% 78 13.8% 58
26.3% 80
rs937643 AB_ASSAYS_ON_DEMAND 12 165.3809 128990024
forward MIT
CTGCTCCCTTCACAAGCACAGCTGCAAGGAGCTAAGGCTGCCAGGCTGGCACCGCCATGCTGCCGTCTTGGGATC
CACTGAGCATGTTAAGGCCGTGCTC[A/
C]CAGGCTGAGCTCAGGAAGAAGCGCAACACACCATTTTTGCTTGACTCCACTAATGGGAAACCTTGAAACCGAA
AGACTGGCTTCTCTTGCCTTCTAGGCC A/C 1,520 0.114 0.000
0.154 0.001 80.1% 196 33.1% 154 34.5% 58 28.7% 80
NA 0 81.2% 64 80.0% 40 79.3% 92
83.3% 42 NA 0 35.5% 76 30.8% 78 34.5% 58
28.7% 80
rs4759816 AB_ASSAYS_ON_DEMAND 12 168.0812 129808541
forward LGD
GGCCAGCTGGGCTTGTCACCCACAGGCTCTCCTGGGACTATGCAAAATGTTACTCGGGGTTTTCCTCCTGGCGCC
TGAAAATGGGTTCTGCTAAAATCCC[A/
G]AATCTACCTGTCCAGGTTCAGGGGATTTCAATTAAAACTCAAAAGGAGAAGGAGTTCAGCTGTAGCTTCACGT
TCACACTTGCACTGAAACGTTCCACTT A/G 112 0.331 0.002
0.457 0.002 83.5% 188 5.3% 150 7.1% 56 7.7% 78
NA 0 83.3% 60 86.8% 38 82.2% 90
77.5% 40 NA 0 2.6% 76 8.1% 74 7.1% 56
7.7% 78
rs7489187 AB_ASSAYS_ON_DEMAND 12 168.5726 129979405
forward LGD
GGGCAAGCAGCATGCCTGGGGAGGAAGCGTGGGAAGGAGGCCTGGAGGGACGTGCACAGGCCTTTGTCTGCCCAG
GGTAATTTACTGCAAAATACACGGC[C/
T]GCTGCTTCAAAGGAGGCGGAGTTCAGCCACATGCCACACCCCCAGATATACTCATTCATTCCTTACCCATGCT
GCTTTTCCACTCTTTACAGAATTTACA C/T 1,607 0.107 0.092
0.010 0.131 71.6% 194 25.0% 152 60.7% 56 67.5% 80
NA 0 75.8% 66 67.5% 40 70.5% 88
73.8% 42 NA 0 27.6% 76 22.4% 76 60.7% 56
67.5% 80
CV439005 AB_ASSAYS_ON_DEMAND 12 170.707 131127359
forward LGD
GTGACGAGACCTGTGAACTCGGGACCCTCCCTTGGGTCAGAGGCCACCGCCGCCTCTTGGAGTCAAGCCTCTGGT
GCCACCTGTGGGCCCCGTGGGCTGT[G/
T]TTGGGCGCAGCCCCCCTCTTGGCCATGGTCTTGCCAAAGCTGCTTTCTTGGCTGTTCTGAGACTCCAGCCTCG
AGGGCAAGGCGTACCTGACTTGAATGG G/T 707 0.208 0.050
0.537 0.013 15.3% 196 77.9% 154 96.6% 58 88.7% 80
NA 0 7.8% 64 15.0% 40 20.7% 92

31.0%	42	NA	0	80.3%	76	75.6%	78	96.6%	58
	88.7%	80
rs1335870	TSCAF	13	0.4479	18703776	reverse MIT
AAATAATGAACTCCTGTGACAGTGACTTTGAATGTGTCTTTAACACACTTGACTTAATGAGATCCCTTTTCTGGA
GGATATAAAATGTTCCCCAGAGATG[G/
T]AATGTCACCACTAGGGGATAATCTAATGTCCTAAAAGGGCTAATTATTTCCCCTAAAACATTACAACAAACTC
ATTACTGTAAGGACAACCCTATGAACT	G/T	192	0.286	NA	NA
	NA	91.5%	130	20.9%	148	NA	0	NA	0
	91.5%	130	NA	0	NA	0	NA	0	NA
	0	20.9%	148	NA	0	NA	0	NA	0
	NA	0
CV11500273	AB_ASSAYS_ON_DEMAND	13	0.8084	18883751
forward LGD
GGTATATAATTTCTTCATGCCTATAGTTTAACACTATACCCTACATATTAATCTTTTCAAAATGCAGACAATAAA
GTAAGCATATTTTTGTTGCACAAAA[A/
T]TGCAAATTCAAGTCATATATTCATGGACACCCTCCAAATAAGGATAATAACCAGCTAACGCGTGTCTGAGATG
GTCAGAACCCTGTTCCGTGACGGCACC	A/T	438	0.273	0.000
0.394	0.061	14.3%	196	85.7%	154	86.2%	58	60.0%	80
	NA	0	7.6%	66	12.5%	40	20.0%	90
23.8%	42	NA	0	85.9%	78	85.5%	76	86.2%	58
	60.0%	80
rs1885894	TSCAF	13	5.7741	20445183	forward MIT
TTTCCAGTGGGTTTTCCCATAGTTTTTCATCTTTTTCTTTGGAAAATACTAAGTCTACTTGATCGAAGAGTGAGC
AACTGTCTTCTTCATAGAAACTTAC[A/
G]GAAGTCCTCAGAGTGTTTCTATTGGCCGACAATATCCTGACTTCATGCAGGGTCACAGCTCCATTCTTTGTCT
GGAACCAGATGCAACCTAGCTGCCCTT	A/G	194	0.285	0.079
0.142	0.013	10.3%	320	81.2%	308	50.0%	56	70.0%	80
	8.6%	128	8.1%	62	0.0%	40	18.9%	90
2.4%	42	80.5%	154	78.9%	76	84.6%	78	50.0%	56
	70.0%	80
rs433708	TSCAF	13	6.7945	20768627	forward LGD
TTTTCTTCTTATATTATGTTCATCCTGTTTCTTACTGTAATGCAAAGAAAAATGTATATTCAGGTTAAATTCATC
TAACTTCTGGCAAGTGTAAGAGACT[A/
G]TGTGAGACTCATATTTTGTATCATTAAACCTGCAAAATTATGTGAGATATGCATTACTAGTCTCACGATGGGA
AAATTGAGTCTCATAAAGAGGAACTAT	A/G	1,597	0.087	0.000
0.152	0.011	51.5%	196	90.8%	152	92.9%	56	97.5%	80
	NA	0	48.5%	66	40.0%	40	58.9%	90
71.4%	42	NA	0	89.5%	76	92.1%	76	92.9%	56
	97.5%	80
CV2702300	AB_ASSAYS_ON_DEMAND	13	8.6969	21622783
forward LGD
TAAAAATCCTAAATTTACACAGAATTATAAAGATATAATCATTTTAAACAGCACCTATTTTGCAAATTTTATAAA
TCTCTTTCTAGGACTCATCTCTGCT[G/
T]CTACAATCAACCCAGAATGTGACTGTAAATGCGCGCAACTCAGAAGGGGAGGTCACAGGCAGGTTAAAAGTCG
GTGAGTCCAGCTTCATCATGGTGCTTT	G/T	extended_map	0.071
0.002	0.081	0.084	25.3%	194	63.0%	154	58.6%	58

28.7%	80	NA	0	22.7%	66	5.6%	36	34.8%	92
	19.0%	42	NA	0	62.8%	78	63.2%	76
58.6%	58	28.7%	80
CV2721585	AB_ASSAYS_ON_DEMAND	13	8.9517	21986270
forward LGD
CCCTGTTAACAATTTTAAAGAAATTCTAACTTGTTAATCAGTTCTTTAAATCAAGTGTTGTTTGTCTCCCCCCTC
CTCTCTGTGCCTCTGATATAGAACA[C/
T]TGTGTGGCTGGAGCTCTCAGGAGTGAGGAGGAGGCTGACCTTCCACCCTTTTCTCCTCACTTCTTTGTTGTGC
ACACTCCCGATGTACGTTTGAAAGACA	C/T	1,289	0.106	0.004
0.199	0.017	85.4%	198	42.2%	154	34.5%	58	57.7%	78
	NA	0	84.8%	66	90.0%	40	83.7%	92
81.0%	42	NA	0	42.3%	78	42.1%	76	34.5%	58
	57.7%	78
rs7995033	AB_ASSAYS_ON_DEMAND	13	14.1334	23629888
forward LGD
AATAGATACCAGCCCCCAACAGAATACATCTACTCCTTCCCAATCATTATAGACCCCAAGACCAAATATGAAAGA
TAAAGTATTACTTTGGCCAAGAAGA[C/
T]TGCAGCATCCATAACAGCTTTGATATGGCGAAGCCATCCCGAGCTCTCCAAACCGGAGTAGAAATCATTGACA
GAAAGCCCTTTAGTGCCATTGACTGAA	C/T	extended_map	0.195
0.209	0.007	0.074	81.8%	198	20.5%	156	74.1%	58
51.2%	80	NA	0	81.8%	66	97.5%	40	75.0%	92
	92.9%	42	NA	0	20.5%	78	20.5%	78
74.1%	58	51.2%	80
CV36572	AB_ASSAYS_ON_DEMAND	13	14.3085	23691221	forward LGD

TGAAAGTATATGTACATCTGCCATATATCTGCTTATGTGTACAGATGTCTTCATAAAATGCTTTGCTTCTGAGTT
CATGACGAGGGTTGAGAAAGGGAAA[A/
T]TCTTGCCCTTGAAAGTATATGTACATCTGCCATATATCTGCTTATGTGTACAGATGTCTTCATAAAATGCTTT
GCTTCTGAGTTCATGATGAGTCATGAC	A/T	326	0.227	0.205
0.020	0.121	80.6%	196	14.3%	154	66.1%	56	52.7%	74
	NA	0	81.8%	66	92.5%	40	74.4%	90
88.1%	42	NA	0	16.7%	78	11.8%	76	66.1%	56
	52.7%	74
CV187966	AB_ASSAYS_ON_DEMAND	13	15.1253	23977307
forward LGD
TAAGCTGAGATAACAACCTACTTTGTTGTGACAATGGAGTCTCAGGGTATTGTAAGAGAAAAATTATTATATGAA
AGGCTAACATCTGTCAAGTTCCTTC[C/
G]TCAGTGAACTTTATTCTGTGGTCAAATTTCTAAGCATAGTTCTTCCTATATAAGGTAACTTATGTAGACCTGG
ACATGTTTTATTTGGAATGACTTCCAT	C/G	1,368	0.118	0.097
0.023	0.013	56.3%	190	98.1%	154	74.1%	58	92.5%	80
	NA	0	54.7%	64	47.4%	38	61.4%	88
61.9%	42	NA	0	97.4%	78	98.7%	76	74.1%	58
	92.5%	80
rs998692	AB_ASSAYS_ON_DEMAND	13	16.7458	24772562
forward LGD
ATTTGGGGGAATAAATATTTTCCAAATTGTGATGTTATTCACCAAAAAATATATATCGTCTTCACATATGTGCTG

AAAGATAACTGTGAGAAGCAATACC[A/
G]TCATGTTTGTATGATTTGTGATTTCAGCTTCAGAAGCTGCTTACCATGGACCCAATAAAGCGAATTACCTCAG
AACAGGCTATGCAGGACCCCTATTTCT A/G 861 0.184 0.000
0.280 0.001 68.9% 196 9.1% 154 8.9% 56 6.4% 78
NA 0 75.8% 66 60.0% 40 67.8% 90
71.4% 42 NA 0 9.0% 78 9.2% 76 8.9% 56
6.4% 78
rs2491218 AB_ASSAYS_ON_DEMAND 13 20.3388 26402041
forward MIT
CATATTGGTTGGCCAATGCATTCTCTCTCTAGGGAAAATTCCAGATAGCTCAGCAAACTGTACTTATAAGCTGAC
TTAGAAGCACAGTGTGAGGAAAGTC[A/
G]CTATGGAATCCAAGGGCTCCCGTCATTGCGGCTCATGTGCAGTTGGTCAGGGCAGCCCGGGCAGCCACAGGGG
CAAGGGCAGGGTCTCTGGACTTCCCTC A/G 485 0.18 0.011
0.166 0.003 14.4% 180 72.1% 154 60.3% 58 78.2% 78
NA 0 14.1% 64 14.3% 28 14.8% 88
15.0% 40 NA 0 61.8% 76 82.1% 78 60.3% 58
78.2% 78
rs7993418 APPLERA_RESEQUENCING 13 21.3705 26681061
forward LGD
CCTTAACTTCACGACTTACATCAAACATGGAGGTGGCATTCGGTAAAAGTTCTTCAAAGGTTTTGATTCTTTCCA
GGCTCATGAACTTGAAAGCATTTAC[A/
G]TATCTAATGAAGAAACAGAAAGAATTATCAAGACAGGAAAAGGCATCCAGCTCTAATGAGTCAGGAGACCACA
GGCACCATATCCCAGCTAAGATGAACC A/G 1,181 0.166 0.043
0.449 0.035 71.1% 194 13.6% 154 0.0% 58 1.3% 80
NA 0 68.2% 66 70.0% 40 73.9% 88
64.3% 42 NA 0 11.8% 76 15.4% 78 0.0% 58
1.3% 80
rs885219 AB_ASSAYS_ON_DEMAND 13 22.0371 27044206
reverse MIT
TAAGTTGTAAAGACACTGAAATTATACTTTTCATTAACAATAATCCTACCTGGTGTGCATGTATTTTGAGGCTTT
GCTTCTGCTCAGGAAAACTACGGCA[C/
T]ATACCATGTAATGAAATGCAAAATCCCAGAGCTTAACATCACGCCTCATTCCTGATACATGTAGGATGATCAA
ATTCCTGAAGAAAGTCCAACTCAATAG C/T 903 0.166 0.174
0.009 0.033 27.3% 172 85.0% 140 37.5% 56 66.7% 78
NA 0 21.2% 52 17.6% 34 34.9% 86
25.0% 40 NA 0 88.9% 72 80.9% 68 37.5% 56
66.7% 78
rs1141362 AB_ASSAYS_ON_DEMAND 13 26.1072 28801618
forward MIT
TTGGACTCAGGTGGCATTGGTAAAGGAAATGAAACGCATGCAAATTTCACAGACAAAAGAGTAGCTTTGCCACCT
CTCATTTTGGCTGGGCTGCTCTGAG[A/
G]TGCTGCATCTTTTATAGTGTCTAGGCTCTCATCCTTAATGACATTTTCATATTCTCCATCCCCCATCCCCCAC
CGCCTCTCCAGTAAGGACTTTTTGACA A/G 482 0.187 0.004
0.300 0.013 94.9% 196 43.6% 156 36.2% 58 57.5% 80
NA 0 95.3% 64 100.0% 40 92.4% 92
90.5% 42 NA 0 46.2% 78 41.0% 78 36.2% 58

57.5% 80
rs4076128 APPLERA_RESEQUENCING 13 27.29 29103143
forward LGD
CTAATTAATGAATGTGCTAATTATTCTTGCCTACTCCCAGCATATTTGTCTAACTAACCTGTCACACACAGATCA
GTGCAGCATATGCATAATTACGGAG[A/
G]GCGCTGGGAGCAGGGGATGGGTGGGAGAGGGGTGGGCTCGCAGCCCTGTCGCTGTGGGATATTTCTTGTAAAG
TTACCTTTGCTAACGGTCAGATGTCGT A/G 932 0.175 0.004
0.308 0.000 86.2% 196 29.9% 154 22.4% 58 30.0% 80
NA 0 84.8% 66 78.9% 38 90.2% 92
71.4% 42 NA 0 31.6% 76 28.2% 78 22.4% 58
30.0% 80
rs797228 AB_ASSAYS_ON_DEMAND 13 31.5166 31540433
forward LGD
ACAAAATGTTCATTAATCAAGCACATTGGAATGATTTCAAGCTGTAGAGTGCGGCATAGAAGAGGAAAGTTGATT
ATTTGGAATTGAGACTTGAGTTTGA[G/
T]GAGCCTGCCAGAACCTCTGAGGGCCAAGCCCAAGAGGTTGATATGTCCCTTGGGTGACCATTTTTGGTGTGGA
TGCACCAACAGCCCACCGGACCACCTG G/T 280 0.265 0.021
0.195 0.170 99.0% 196 42.9% 156 60.3% 58 88.7% 80
NA 0 100.0% 66 100.0% 40 97.8% 90
100.0% 42 NA 0 43.6% 78 42.3% 78 60.3% 58
88.7% 80
rs1886431 TSCAF 13 32.7385 32820460 forward MIT
TTATGCCTCCCCGTCAAATCTGGCCTGGCAGTCAGGAACCTCTTCCTGAATCTGGTGTACCTGTCATTTCATCTC
ATCTAGATGGTTTCTTGTAAACATG[A/
G]GCTCTGGTTTCATAAGGGTCATGTTTTCCTGTGGCTTGGTGAGAAACCAGAGTAGACATTTTCTCATTTTCTT
TTAATTTTAACATTATGCTTTTAATGT A/G extended_map 0.126
0.070 0.031 0.118 75.3% 288 25.2% 250 55.8% 52
65.4% 78 78.7% 94 68.8% 64 71.1% 38 78.3% 92
78.6% 42 31.2% 96 19.7% 76 23.1% 78
55.8% 52 65.4% 78
rs1106050 AB_ASSAYS_ON_DEMAND 13 32.809 32843950
forward MIT
TTCATTCCAAGTTTTACTTAAACAAGAGAATCAAATGCCTTGGCTAAATAGCAAGAATTAGAAGATCTAGTCAAG
ATGATGGCCCAAGCCCATGTGTTTT[A/
G]CTCCCTCTCTTCCCCAAAATTCCACTAAAATGTCAGTAGTAAAGAAGTACAAGAGGCTGGGCACGGTGGATCA
CACCTGTAATGCAGCACTTTGGGAGAC A/G 626 0.213 0.203
0.009 0.226 7.4% 190 65.8% 152 13.8% 58 11.8% 76
NA 0 6.5% 62 10.5% 38 6.7% 90
4.8% 42 NA 0 66.2% 74 65.4% 78 13.8% 58
11.8% 76
rs3920813 AB_ASSAYS_ON_DEMAND 13 33.9883 33660493
forward LGD
TTTTTAGTAATACTCCCAACCAAAGTGATTATGTAATTTTTGAAGATAGATAGGTCTTTCAAATTTGCCTCTGCT
TGTGTTCTCAATGTCACGTTTAGTT[C/
T]TTCTTTTGCTTTTGGGAGAATCCATTTATTCTTTCTGTCCAAAACTAATTAGACAAAACACATGAGTAAAGGT
GTGAGGTTCTATGGACTTGAAATCACA C/T 994 0.17 0.007

0.327 0.000 81.6% 196 24.3% 152 15.5% 58 22.5% 80
NA 0 80.3% 66 80.0% 40 83.3% 90
69.0% 42 NA 0 21.8% 78 27.0% 74 15.5% 58
22.5% 80
rs2050714 AB_ASSAYS_ON_DEMAND 13 34.0298 33696057
forward MIT
AGAAACATAACAATTTAAAAGTGAATCAATGAGAAAGTTACCTATTTTGGTGTATTCATTTCTATGCCATATTTT
TCCATTTCTTATTTCTTAGAGACAC[A/
G]TATCATATTTTTTTTGTTCTTGGTTTACTCATTGCATACAAAAGCCAGTCAAGATGTACATAATCTGTGCCTT
TATTAGAAAACTTTTATTTAATTTCCA A/G extended_map 0.115
0.019 0.279 0.010 13.5% 192 58.0% 150 74.1% 58
46.2% 78 NA 0 9.4% 64 20.0% 40 13.6% 88
21.4% 42 NA 0 65.3% 72 51.3% 78
74.1% 58 46.2% 78
rs1171086 AB_ASSAYS_ON_DEMAND 13 34.7462 34310158
reverse MIT
TGTTTTCCTCAACTTTCCAAAAAATGAAGTCTCCTTTCTTTTCTAAAAATCAATGATAGTCCCTTGTCTTTGTCT
TCTCTTTCTCTTTGTGACCTTGCCT[C/
T]GTCAGTGTTCTGTTCCTACTGTTTCGTGGATTTTTTGTTTTACCCTATCTATAGTCTCTCTTCTTTCAGCCCA
CAGCCAGGCCCAGGTTCCTCCTATCCT C/T 1,601 0.13 0.019
0.317 0.072 75.3% 198 24.0% 154 10.7% 56 55.0% 80
NA 0 78.8% 66 70.0% 40 75.0% 92
76.2% 42 NA 0 26.3% 76 21.8% 78 10.7% 56
55.0% 80
rs895898 TSCAF 13 39.6264 37025547 reverse MIT
CTGGGTATAAATGTCTCCCAGAGTTTTTTGCAGTGTGTATCAAAGAGGAAGCCTAGCATCATAAAACTTTCTCCG
ACCTTTCCTTCAGCATACTTCAAAC[A/
C]ATTCCTTTAAACTATGTTTGACCTATTATTTTGGTAAAGTTTCACAAACCAAATAAAAATACAACTATGCTAA
TTTTACAAAGGCATTCGTAGTCATTAC A/C 472 0.28 NA NA
NA 11.0% 100 82.6% 144 NA 0 NA 0
11.0% 100 NA 0 NA 0 NA 0 NA
0 82.6% 144 NA 0 NA 0 NA 0
NA 0
rs1078421 AB_ASSAYS_ON_DEMAND 13 40.2885 37477678
forward LGD
TTTAGAAATGAGGACATTCAGAGGACTAATTTAAAACAGACCAAGTAGGAAGTGATTGTCTAACACTTCCCCATA
GAGTTGCTTCCAAGGAATCCCACTC[C/
T]GTTCAGTGTGTCTTGCTTTCTTAGTTTCTGTACTGTTTATTCCTAAATAATCAGAAAGAGGACAGAATGTTAG
TGGCTGTGTCCCATGCTGTCAAAACAT C/T 1,216 0.163 0.004
0.299 0.010 19.4% 196 75.6% 156 82.8% 58 65.0% 80
NA 0 22.7% 66 13.2% 38 19.6% 92
9.5% 42 NA 0 75.6% 78 75.6% 78 82.8% 58
65.0% 80
CV1433571 AB_ASSAYS_ON_DEMAND 13 43.24 39558947
forward LGD
TGCAACTCTGCAGTCTCTGTAGAATCTGCCACAATAGGAACTATAACCTTTATTGAGGTTATTTGCTTACCTATT

GGTTTTCCTCAACATTTCCCAACTT[C/
T]ATCTCTTACAAGCGATCAGAGTCCTAGAACCCACAGGGAATTTTCTGCCAGAGAATACATAAAATATTGCCAC
TTTCCACTGGATTTTTAAAAAAGTTAT C/T 117 0.324 0.010
0.564 0.232 92.4% 198 17.9% 156 8.6% 58 73.8% 80
NA 0 90.9% 66 100.0% 40 90.2% 92
94.7% 38 NA 0 19.2% 78 16.7% 78 8.6% 58
73.8% 80
CV1919188 AB_ASSAYS_ON_DEMAND 13 45.6165 41762578
forward LGD
AATAATAACTTCAATGGACACATATGATACTTGTTTAATTATTTATCAAGGAGAATGCCTGCAAAAATTTAGTAA
GTTTATAAAATTTTTGGCAAGTACA[A/
G]GACTGTGTCAGCCAATAATGCATTTTGAGTTTAAAATGCTCCCTCTTGGTGGCTTATGATAATACTTAATCCT
AGACCAAGGATTCACCATTTTTCTGTC A/G 777 0.279 0.171
0.049 0.199 5.6% 198 72.1% 154 23.2% 56 20.0% 80
NA 0 0.0% 66 0.0% 40 12.0% 92
10.0% 40 NA 0 74.4% 78 69.7% 76 23.2% 56
20.0% 80
CV352061 AB_ASSAYS_ON_DEMAND 13 45.9831 41925303
forward LGD
GGTTGGGAAATCTGAGCAGTCAGAGGCAACCTAGAGACACCACCGGTACCTAAAGACAGGTGTTAGGAGGCACCA
GAAGTTGGGAATGGCACACAAAAAC[A/
G]AAATACAGCAGCAAAATTCAACATGAATACTATTATTTAATGTAGGTTTAGGTAGCTATTGTCATAACACCAA
TTCATATGTGCTGAATTGGGAAATCTT A/G 1,510 0.168 0.104
0.027 0.134 93.4% 196 43.6% 156 81.0% 58 85.0% 80
NA 0 95.5% 66 100.0% 38 89.1% 92
92.9% 42 NA 0 50.0% 78 37.2% 78 81.0% 58
85.0% 80
CV1432551 AB_ASSAYS_ON_DEMAND 13 46.1055 41979611
forward LGD
TTATCAATATACCCTAAGTAATTTATTTGTAACCGCATAGTTTGTTGGTAAAAAGTTCCCTACAATTTTCCTTAT
TTTCAAATATTACCAATGGCAGTAA[C/
G]TTAACACATTCATGGGAGCAAAGCTACAAAAATGTTAAGTCTGGCCATATAGAAAACCCTGGCTTGATGTGTG
TTTAGTGCTTAAAAATCCCCAAATATA C/G extended_map 0.168
0.192 0.004 0.183 82.7% 196 26.0% 154 77.6% 58
76.2% 80 NA 0 87.9% 66 80.0% 40 80.0% 90
92.9% 42 NA 0 30.3% 76 21.8% 78
77.6% 58 76.2% 80
rs717090 AB_ASSAYS_ON_DEMAND 13 47.2416 42483844
reverse MIT
CACTGGTGCTGCTCCAAGAGATACAGAGGATGCATTGATCTAACCCAATGTGTTATGTGGTTGATTTCTAAGGTG
AAGTGAAATCAGTTCCAAAAAGGTT[A/
T]GAAGAGATCAGCGCTGTCCATCCAGGGTTAAGACCCTATGTGTACCTTCCCTGGAATTCCATATTTATTGGTG
ATGCTATTTCTGTCTCAGAAAAGTCCC A/T extended_map 0.212
0.044 0.127 0.010 84.5% 194 21.2% 146 44.6% 56
31.6% 76 NA 0 80.6% 62 92.5% 40 83.7% 92
83.3% 42 NA 0 26.4% 72 16.2% 74

44.6%	56	31.6%	76
CV1435130	AB_ASSAYS_ON_DEMAND	13	48.6971	43345257
forward	LGD
ACATTAGAAAATCAAACTAGTCTTCTATCAGGAACTTTAAATAAATACATGCTGCCTATGCTAGTTTTCATCTTC
AAATATTAATGTTTCCAAAGTTTCT[C/
G]TAGCCAGTGGAAATTTTTTCCTTTAATCATTTATTCACGAAACCACAAGGGGGCATAGTTCACATTCGTGTAG
GGAAAAGCCATTAATACTTTAAAATAC	C/G	101	0.336	0.003
0.388	0.029	4.5%	198	77.6%	156	72.4%	58	58.8%	80
	NA	0	3.0%	66	10.0%	40	3.3%	92
2.4%	42	NA	0	78.2%	78	76.9%	78	72.4%	58
	58.8%	80
CV2010450	AB_ASSAYS_ON_DEMAND	13	51.5377	46516747
forward	LGD
AAGAAAAGTGACGTCAGTAAGTGTACTGAATTGCATCTGTCTTGGAAGTAGGCCCACCCCTGAGAATACAGGAAG
TACAGCAACAGTATCTAGACACAGA[A/
C]GTGACCCTGGCAGGAAGGCCGTGTTGTTCATGATGAAACTGTTTCTCCTTTTCAAATCCCCAGTCCCATATCT
GCTGGGTACTACTAATTCAATGTACTC	A/C	1,849	0.083	0.014
0.058	0.011	33.5%	194	75.0%	156	62.1%	58	63.7%	80
	NA	0	37.5%	64	30.0%	40	32.2%	90
26.2%	42	NA	0	73.1%	78	76.9%	78	62.1%	58
	63.7%	80
rs427686	AB_ASSAYS_ON_DEMAND	13	51.6743	46756317
forward	MIT
TAGGGCTTCTAAACAATATTCCTTTATTTTTGAGAATTTTTGGAGAAAAAGTGACAAGCCCCAAATCTGGAAAAG
AGTATGATTGATTTACAATAGGAGA[C/
T]GTGGAAGTCATAAGCCTCTGAATTTAAATATTAAATGTAGTATCTCTGGCAGATGAAACTATAGAGGACTTTT
ATTTAGTCATATATTTTTAGTGTTTGA	C/T	extended_map	0.346
0.004	0.472	0.013	16.8%	190	96.6%	116	94.2%	52
89.7%	78	NA	0	19.4%	62	16.7%	36	15.2%	92
	23.8%	42	NA	0	96.3%	54	96.8%	62
94.2%	52	89.7%	78
rs198568	TSCAF	13	51.7163	46813957	forward	MIT
TTAAACTTGACACAATTTGCTATCATAGAATTATATATATGGGTAAAGGGTACCAGTTAGATTCCCATTGGCAAA
AACCTGGTGATTTTCATTCTGTGGT[A/
G]TAGAGATCCTAGTTAAGAGGCAGGAATTATTTAAAAATGACTTTAATTTTGATCATTTAATTATAGGACCTAT
TTATTCACTTGTTTTTAACTTATTCAC	A/G	371	0.326	0.004
0.446	0.021	20.1%	304	97.0%	266	94.8%	58	88.7%	80
	23.2%	112	22.6%	62	21.1%	38	14.1%	92
23.8%	42	99.1%	112	97.4%	78	93.4%	76	94.8%	58
	88.7%	80
rs7326934	AB_ASSAYS_ON_DEMAND	13	51.7561	46868513
forward	LGD
TTTTTCAAACGATTTTCTCTATAAAATGTAGCCAAGTCTAGCAGTCCTGGCGGAAAGAGGTGTTTATTAGGGGGA
GTGATTTCAAGCATCCTGATTTACA[C/
G]TTGCTCACTCAGCCACTCAGAGATGATTTTGACACTATTTTAGATATAATCCTCAGTGAAGCACTGCATAGAC
TGATGCTGACTGACACTTACACTTCAG	C/G	extended_map	0.358

0.001 0.511 0.004 14.8% 196 95.5% 156 94.8% 58
98.8% 80 NA 0 22.7% 66 10.0% 40 11.1% 90
22.5% 40 NA 0 97.4% 78 93.6% 78
94.8% 58 98.8% 80
rs912091 AB_ASSAYS_ON_DEMAND 13 55.4993 51271680
forward MIT
CTGTGTGGACCTGCCGCCCAAACCCAGTTCCACGAAACAAAGATGCTTCCTTACTCATTTTAGTTAGTCAAGATG
AACCGCCGAAGAGTCACTGTGAGAG[C/
T]TCCTCAAGGAAAGAGATGGTAATTATTCCCAGTTAACAGATCCAGCCCAATCAAACCTGATTTTCATCAGCTT
TGATTGCCTCCATTTCGGAATTGGTTG C/T 1,572 0.139 0.001
0.175 0.104 82.3% 186 30.8% 104 33.9% 56 69.2% 78
NA 0 71.7% 60 89.5% 38 86.4% 88
76.3% 38 NA 0 34.8% 46 27.6% 58 33.9% 56
69.2% 78
CV1461881 AB_ASSAYS_ON_DEMAND 13 56.749 56895546
reverse LGD
TAAAAGTAATAAAGGAATTTCTAGAAAACATCTAGATTGAAAATTATATATAAGCAGACCTGATAGATAAATCCT
TCCTCAAGTAATAACTAGTTTATAT[A/
C]AAAAACTGAGCTAAATGACCTTTTGTTAATAACCATCCAAACATTAGTTCCTGCTCACCTATATACTCATCTG
AAAGCATGTTGCTCACATTTCCTGAAC A/C 1,231 0.178 0.000
0.253 0.024 9.1% 198 63.0% 146 64.8% 54 44.7% 76
NA 0 7.6% 66 5.0% 40 12.0% 92
7.1% 42 NA 0 66.7% 72 59.5% 74 64.8% 54
44.7% 76
rs751530 TSCAF 13 57.2156 57920732 forward MIT
ATGGGTCAAACTGAGCAGCTGCACATCCAGGGCTGAGCTGAGATAGTACTGTGTGTTCCAGGGAAACAGAAGAAG
CTAAGCCAAGACACCCCACCCTACA[C/
G]GCCAAACAACTCAAATATCCCGCTTCCCTGGAGTTGGACTAGTTCCCTAGAGTCTGAACTGCTGAGACACCCA
TCTCCCCAGAGAGTGGGCTCATCACTA C/G 911 0.16 0.018
0.370 0.027 67.2% 180 11.2% 152 1.8% 56 26.3% 80
NA 0 70.3% 64 73.1% 26 63.3% 90
81.6% 38 NA 0 10.5% 76 11.8% 76 1.8% 56
26.3% 80
rs1891234 AB_ASSAYS_ON_DEMAND 13 57.676 58654252
forward MIT
CTACCAAATGTCATTGAAATTGGCATAAAATCACTAACTGCTGTGTTTGTGTAGAATAAAATGATTGTCAGAAGA
TTCAGAAATTGTCATCATTCCTAAG[A/
G]TTTGGTTTTTTAGGGAAAACTTTCACAGTTATGCAGAGTATAATTTAGATAACTGAAGCCAGGCTGCCAAAAT
ATTCAAGTTTCTTTAAGACTTAAGAAC A/G 245 0.271 0.097
0.711 0.000 96.9% 196 35.3% 156 5.2% 58 37.5% 80
NA 0 98.4% 64 95.0% 40 96.7% 92
97.6% 42 NA 0 42.3% 78 28.2% 78 5.2% 58
37.5% 80
CV3261117 AB_ASSAYS_ON_DEMAND 13 61.5882 65537562
forward LGD
CCACATATTAATAAAAAATTCAGCATTCCATTTAATTTTAAACTGAATTTGATGGCTGCAGAATATATCATTATA

CACTTTACAATAATAATAGTGAATA[A/
T]TTTATGGGTGCATAATGTACTATTCTGCGATTAAAATATTCCAATACTTACCTCATTTATATTCCCACTAACT
CTGATATTGCTCCATTTTATAAGTGGT A/T 1,977 0.099 0.091
0.006 0.003 82.8% 198 40.3% 154 75.9% 58 46.3% 80
NA 0 87.9% 66 80.0% 40 80.4% 92
90.5% 42 NA 0 41.0% 78 39.5% 76 75.9% 58
46.3% 80
rs914906 TSCAF 13 63.2944 68827917 forward MIT
GTAAAGAGATTGGAAGTAATTTTGTGTGTCTTCTTCACCAGCTGCTGTTCTATTATCCCAGAAACCAGGAAGGAA
GCTTTCTCAAGAATCTTACTAAGTG[A/
G]GATTTGTGGAGAAAGAGCCTGCAATAGTGTACAAACACCTTTTTTTTTCATATGAACAATGCTATACTATAAC
ATTAGTCAACAAAAGCATAGTCATTTA A/G 1,527 0.16 0.126
0.020 0.061 77.2% 180 20.8% 154 62.1% 58 48.7% 80
NA 0 75.0% 64 73.3% 30 80.2% 86
78.9% 38 NA 0 20.5% 78 21.1% 76 62.1% 58
48.7% 80
CV3118425 AB_ASSAYS_ON_DEMAND 13 64.8175 70078521
forward LGD
TTATTAGCCTTTCATCCATTTAAGAACTTAGTATTAATTGAAATCTATTGGGTAGCATATTTATATTTTTTACAG
TGAGATGTATTTTTAATAACAGCCT[C/
G]CTTAATTGAAATCCCAACAAAGATAGCATATTTGCAAATATTCAGATTTGAAATAATCAAAACAGTAAGACAT
AATTTCCCAGTTTGTTTGCTATTTATT C/G 66 0.368 0.016
0.428 0.119 15.2% 198 96.8% 154 89.7% 58 66.7% 78
NA 0 19.7% 66 10.0% 40 14.1% 92
9.5% 42 NA 0 98.7% 78 94.7% 76 89.7% 58
66.7% 78
rs3759505 AB_ASSAYS_ON_DEMAND 13 65.3621 70239666
forward LGD
GGGGGAGGATACGGAAAGAAACTGTGGGAGGGACGGAGAGGAAAAGCCGGGGACACAGAAGTGGCGATCGGAAAA
GGAGAGGGAGATCATCTACTTCTCT[C/
T]CTACTACTACCGTTAGATTGCATGTCTCACATTCCATTTCGTCCGCGGGGACTGGTAATTTTTTCCAAAGCTT
CTAAACAATCGCCCGCCAACTTAAAGA C/T 551 0.266 0.119
0.136 0.225 67.7% 192 0.0% 156 24.1% 58 41.2% 80
NA 0 70.3% 64 67.5% 40 65.9% 88
64.3% 42 NA 0 0.0% 78 0.0% 78 24.1% 58
41.2% 80
rs7333151 AB_ASSAYS_ON_DEMAND 13 67.5263 71417230
forward LGD
ACTTTCCATTATGTTAGAAATTCTCCTGGACTTTATTACATAAATTATTTACACATCATGGAGAAATCTGATTTG
ATCCATTTAGGGGCTAATTGTTCTC[A/
C]TCAATTTATGTAATCTGTGTTGAACCCTAAGCACCAAGCTAGTTCTTGCCCGGAATTCCCTCCGCTTTCCTCC
TATCTACCGTTTTGCAGTTTGCAGAGA A/C 1,077 0.287 0.009
0.533 0.005 78.8% 198 5.3% 150 0.0% 56 1.3% 78
NA 0 87.9% 66 77.5% 40 72.8% 92
64.3% 42 NA 0 6.9% 72 3.8% 78 0.0% 56
1.3% 78

rs4885151 AB_ASSAYS_ON_DEMAND 13 69.7578 72495857
forward LGD
TTGATCTCTCTGGGCTGTTACATATGGATTCTTTCTACCTTTTTAAAGTGCATTTTGGAAGAAGGTAAAAATTCA
TCTGATATTCACTGGGCATTTCATA[G/
T]GAGCTAGACACTAGTGACACTTCTTTTATGTAATGTGGACTTGCAAAGTTTTTACTTATCGAGACTAAATGAA
AGTCAGAAAGACAGTAGTAATTATGCA G/T 1,766 0.284 0.068
0.669 0.043 96.4% 196 32.1% 156 6.9% 58 11.3% 80
NA 0 100.0% 66 100.0% 40 92.2% 90
97.6% 42 NA 0 25.6% 78 38.5% 78 6.9% 58
11.3% 80
rs556619 TSCAF 13 71.3457 73637053 reverse MIT
GTACGTTTCTACTTTCATTTTGCTACAGCTGGGGTCTTTCATTCACAGCCGTCTACCAAACTTTCCCCAACACAC
TCTGAGTGAGAAGCTATTCAGTTTG[C/
T]GATTCGTAGATCACCTTAGCCTTTCTGCACCTTTCGGTTTTGTACATGCTCATCCATTTGGTATGATCTGAAT
GTTTGTGTTCTCCCATCATTTATATGT C/T 434 0.28 0.001
0.474 0.002 26.6% 304 97.7% 258 100.0% 58 100.0% 80
29.5% 112 18.2% 66 32.5% 40 26.7% 86
54.8% 42 97.3% 112 97.3% 74 98.6% 72 100.0% 58
100.0% 80
rs4280128 AB_ASSAYS_ON_DEMAND 13 71.5523 73776840
forward LGD
ATGTAAAGTGCCATTTCTAACAACAGATTCAAGAAAAGGCATGAACAAAAAGAAGTATCACAGAATGCTAACAAT
AATTATATTTGGGTAGCGAGGGACT[A/
G]CGGATAATTCTTTTCTTCTAACTTATCTAAATCTTTTTTTAAGTATTTCACTAAAATCACTTTTTATTACTTT
AAAATTAAACACCTAAAGGAAAGCCCT A/G 779 0.25 0.117
0.724 0.133 4.1% 196 64.3% 154 96.6% 58 97.5% 80
NA 0 0.0% 66 0.0% 40 8.9% 90
14.3% 42 NA 0 65.4% 78 63.2% 76 96.6% 58
97.5% 80
rs696784 AB_ASSAYS_ON_DEMAND 13 73.164 75349671
forward LGD
ACCCTGGGATCCTGTAGGGGCCCTGATCTGGGGAAACATGAGGACGTGGAGGCAAGGGAGGAAGCTCAGGGGAGA
CACTTGTATATTGGGGGTTGCCTTT[C/
G]AGCCACACCTTCTTCACTGGCTTCTATTCCAACCTAAAACACACAGGTCAGCTTCACCAGGAGGTACACGAGG
CTGGTCTGAATCAAATGTCCCTTGACT C/G 1,622 0.151 0.002
0.282 0.003 47.5% 198 97.4% 154 100.0% 58 100.0% 80
NA 0 43.9% 66 50.0% 40 48.9% 92
54.8% 42 NA 0 98.7% 78 96.1% 76 100.0% 58
100.0% 80
rs927852 AB_ASSAYS_ON_DEMAND 13 73.2827 75469332
forward MIT
CAGACACATTAATGGCACACCCTTTGGGTAACACATAATATTTTTTAAAATATGCTACATGAAAGTGAAATAGCA
CTAAATGACCTGGCCATCATAATAT[C/
T]AGAATTTATCTGTTTTTCACAAAACCCTGTACTGATAATGTACTTTAAAAATGACATTCTAAGATACTATAAA
TTCCCTATCCTTTGACAAAATTCATAG C/T extended_map 0.263
0.006 0.281 0.174 92.0% 162 25.0% 124 33.3% 54

74.2%	66	NA	0	93.2%	44	94.1%	34	90.5%	84
95.0%	40	NA	0	31.0%	58	19.7%	66
33.3%	54	74.2%	66
rs3861128	APPLERA_RESEQUENCING	13	73.336	75530334
reverse MIT
GAAATATTGTCTCATATTTTTCTCTCCTAGGAATTTCCTATTCTGTGGGTTAAAAGAAGGAACAGTGGGGTACGT
GGAGAAAATGATTTCTCCGTAAAGG[C/
T]CTATCTGAAAGTATCTGCATGTTGAAAAATTTTATGTAATTAAAGTTTTATTTTTAAGAATATATAAATATTC
TTTTTTACTTAACAGGTGTGCAAAACC	C/T	201	0.283	0.013
0.273	0.194	7.9%	190	77.4%	124	65.4%	52	25.7%	70
NA	0	6.5%	62	7.5%	40	9.1%	88
2.5%	40	NA	0	74.2%	62	80.6%	62	65.4%	52
25.7%	70
rs1536178	APPLERA_RESEQUENCING	13	74.5949	76970757
forward MIT
TACTATTCTTTTTGAACATCAAGTGTTTTCCTTCACAGATTTGCCGGTGAAATTAAAAAGATTTGGCTAAAATAA
GATGACTTCAGATGATATAATCTCA[A/
G]CTCTTAAGAAACTTTGTACATTTGGCATCTGATCTAGTCCCAAGTCACCAAGAAATAGAGGCTCTCTAGTCAC
TGTGGAGCAGTAGGTGGCACACTAAAT	A/G	2,055	0.079	0.049
0.296	0.002	78.6%	192	39.7%	146	15.5%	58	45.0%	80
NA	0	81.7%	60	82.5%	40	75.0%	92
83.3%	42	NA	0	35.5%	76	44.3%	70	15.5%	58
45.0%	80
rs767778	AB_ASSAYS_ON_DEMAND	13	75.4581	77995116
forward MIT
GGGCAGGGGCTGGGCAGGGTTGTGGTTTACTCTTATGTTCCGTGATGAAGAAGCTATGAATGTCAAACACATACT
GTGCCCTTGATTTGAAGAACCTTGG[A/
T]TTGAATAACCTTGGTTTTAGGATTCTGTCTTTGACTCTTCTGCTATTTTAAAGTGTTTGTACTCTTTGTGCGT
TTTATGCTGCTTTTGTAAGCTGGTCAG	A/T	1,054	0.232	0.149
0.034	0.085	95.3%	192	37.0%	146	82.1%	56	71.6%	74
NA	0	95.0%	60	100.0%	40	93.5%	92
97.6%	42	NA	0	31.9%	72	41.9%	74	82.1%	56
71.6%	74
rs1029143	AB_ASSAYS_ON_DEMAND	13	78.96	84463006
forward MIT
ATTTCTTAAATTTTCATCTAGTTTTAACATAAAATGTAGGAGAGTTTCCCAGAGTGGCAAGCTGAATGTAAGAAT
TATTAAAATTCCATTGGGTCAGTTT[A/
C]TCCTTTTCCTGTGGGCCACTTCTTTTTTCCAGAAGTTCCAGAGGCCACATCACCTGGCTTGTGGTTCCTGCCT
ACTCTTGACAGATACAATTCAGCAGGA	A/C	1,934	0.049	0.029
0.184	0.009	61.3%	194	89.6%	154	100.0%	58	96.3%	80
NA	0	56.2%	64	60.0%	40	65.6%	90
54.8%	42	NA	0	88.2%	76	91.0%	78	100.0%	58
96.3%	80
rs1888249	TSCAF	13	79.7386	86376790	reverse MIT
AACAAATGCTTATACCTTCTACTGTGCATAGGGGCACAAAAAAAGAGTGAATTTATCCTGGAATAATAGCCACAA
GTTCAAAACCCATTACAACATTGAC[A/

G]GTGTGCTTCTTAAAACTGCTCCTGCCAGAAATCCTTCCAAAAATGGCATATTTGGGAGGAATTAAACAAAAAT
CATTCTTGGCTGTCTTTATTAAAAGTG A/G 399 0.206 0.031
0.456 0.001 6.0% 332 61.3% 310 81.0% 58 57.5% 80
6.5% 138 1.6% 64 5.3% 38 8.7% 92
7.1% 42 64.1% 156 60.5% 76 56.4% 78 81.0% 58
57.5% 80
rs719223 AB_ASSAYS_ON_DEMAND 13 85.122 92432937
reverse MIT
GGGGGAAGTTTCACGGAGGATACATCCTCTACTTCTAAATATCAAATAAACTAGGAAAATGGAAGATGCTAGGAA
ATAATTCACAAGCAACACAGTCAGT[A/
G]AGTGTAAAATGTGAGAAAAGGCATGTAGTAGGGCAGAAGAGGGGAGAGCTGACTGAGGGCCACTGGAATGCTG
GGCCCTGCGGAAGGTGGGTGGTGAAGT A/G 1,576 0.075 0.000
0.097 0.007 94.9% 198 66.9% 154 67.2% 58 76.2% 80
NA 0 93.9% 66 95.0% 40 95.7% 92
90.5% 42 NA 0 73.7% 76 60.3% 78 67.2% 58
76.2% 80
rs1409174 AB_ASSAYS_ON_DEMAND 13 85.6477 92636786
forward LGD
TGAAGCCATTATGAACATGCAAGAAAACAGCATGCAGGTGTCTGCAAAGGTATTTGCATTAGTAATGTATCTGCC
AATACATGTATGTTATACAGGTGCA[A/
G]TAACCTAAAAACGAAGTAACTAGATATGTCGGCTGGGCTTATAAATTCTAATATGCTGTCAGCGAGCTTTTCC
TGTTGAGCCACAAATTTGCTACTTCAT A/G 984 0.135 0.117
0.530 0.029 93.4% 196 50.0% 154 12.1% 58 70.0% 80
NA 0 97.0% 66 82.5% 40 95.6% 90
85.7% 42 NA 0 47.4% 76 52.6% 78 12.1% 58
70.0% 80
CV1872528 AB_ASSAYS_ON_DEMAND 13 85.9527 92763160
forward LGD
CTATGGTCACCCTAGGTATAAATCATGGCTATTCACATGATCAATTTACACTCTAATGTATATGACACCTAATAA
TTTTTCAAAACACCCACCCAGCTGA[A/
C]GAAAGTAACGGGTAATGTTATTCACCAGTGACTTTCCTATTTAAATCTCCCTACCTACTTGTTATATTGAAAG
ACATCTGGAATCAGAATCAGGAATCCA A/C 1,451 0.102 0.001
0.133 0.105 31.8% 198 77.6% 152 75.0% 56 40.0% 80
NA 0 37.9% 66 45.0% 40 21.7% 92
42.9% 42 NA 0 81.6% 76 73.7% 76 75.0% 56
40.0% 80
rs6491350 AB_ASSAYS_ON_DEMAND 13 89.6923 95705016
forward LGD
CAATCCTAAAGGGAAATATTTATTATTTTTCATTGTACTTGGAGATTTCATTAAATGATTCTTTGTTAAGTCAAA
ATTTTGTTCATGAATATCAGCCTTT[A/
G]GAGACATAATCGCTCATCTAGTTAACATGTCAGAAAAGATCAACCCATTAGTGGATTCATTCTGTAAATACTT
AGGACTGCAAATGGGAAGGGGAAAAAT A/G 411 0.218 0.012
0.173 0.005 99.0% 198 50.6% 156 63.8% 58 59.0% 78
NA 0 100.0% 66 100.0% 40 97.8% 92
97.6% 42 NA 0 48.7% 78 52.6% 78 63.8% 58
59.0% 78

rs2389910 AB_ASSAYS_ON_DEMAND 13 89.9639 95815165
forward LGD
ACAATTAAAATATTTTGTCTTCTTTAAAAAAATAAGTAAAGGAGAAATATTTTCCTACAAGAGTACTGAATTTCA
GGAAATGGGATAGAGCTTCTAACCA[A/
G]TGTATTCCGTCAAGTAAGATAATAACAGCTGACCTGCCAACAGCATTACAGGGAGATTCTTTGCTCAGCTAAC
ACATTTCTGTTTTTCAAAATTGATGCT A/G 1,103 0.13 0.003
0.235 0.081 16.3% 196 65.4% 156 72.4% 58 31.6% 76
NA 0 16.7% 66 17.5% 40 15.6% 90
21.4% 42 NA 0 66.7% 78 64.1% 78 72.4% 58
31.6% 76
rs987531 AB_ASSAYS_ON_DEMAND 13 95.7949 99103984
forward MIT
GTGTTGATGTGCCAGGAACATCGTAAACCCTCAATAGATGTGTTGCATTGGCTTGAACACAAATATACACCCTGG
GTGCTTACAATTGCACAAAACATTT[A/
G]TTTTCCAAGGATGTTCTCATTTACAGCACCTTTGACTGGTATGATTTGGGCCTGTTCTTTTGAGAATGAAAGA
ACTCATCTAACGGAACTGACGGATTTT A/G 742 0.183 0.005
0.204 0.001 19.7% 198 79.5% 146 72.4% 58 76.2% 80
NA 0 18.2% 66 20.0% 40 20.7% 92
9.5% 42 NA 0 76.3% 76 82.9% 70 72.4% 58
76.2% 80
rs7996346 AB_ASSAYS_ON_DEMAND 13 96.801 99816550
forward LGD
ATCCTTTTCATTTGCTCTCATATCCTGCCAATATTGCTAATGTTTTTACTTAATTTTCTGCTGAATTTAGTTCTA
TTGCTAGTGACTTAGCTTAGCCTTC[A/
G]TTTCCCTTGACAAGGAATATTAGTAATAGTAAAGTTCTTATCACACCTCATGCTTCATTCAGGCTGTCTTCCC
TTCTGTCTATCCTGTATACCACCACTT A/G 1,403 0.127 0.002
0.198 0.074 40.9% 198 0.0% 154 0.0% 58 16.3% 80
NA 0 43.9% 66 47.5% 40 35.9% 92
57.5% 40 NA 0 0.0% 78 0.0% 76 0.0% 58
16.3% 80
rs1984042 TSCAF 13 100.18 101985537 reverse MIT
AAAGCAAAGTTCTCTCAGGAATCTATTTATTATTTAAATCTTTCTTGCAGTTAAACTACCAGATTTCATAATTTT
GCATCCAGTATAGTAGTTTGTAAAG[A/
G]GTAGATGGTTAATGTAACTATGTTTATTGCATTAATGTTATAGTCCCCTCAAATTTTGTGTATTATAAATTGA
TCACAATCATTTTTCTGATCAAAATGA A/G 240 0.271 NA NA
NA 82.3% 96 10.0% 110 NA 0 NA 0
82.3% 96 NA 0 NA 0 NA 0 NA
0 10.0% 110 NA 0 NA 0 NA 0
NA 0
rs913607 TSCAF 13 107.72 104608805 forward MIT
GCCATACTTGCTGCCATTTTCTGCCTCTCCTCTTGCTTCTTCCAGAATGAGAGCACATATTTTGTGTAACATGTA
TCATGACTTCAGAGAAGAGCGACTT[C/
G]TTAAAATAGCATTTGATAAAGCAGGGATTTGGGCAGCAAGTTGCTAACTTGCTTTTGTACATTTTGGGCTCCA
GAATTATAACTTTAAAAGTTAAGTAGG C/G 209 0.28 0.005
0.317 0.034 90.3% 196 20.0% 150 26.8% 56 40.0% 80
NA 0 84.8% 66 90.0% 40 94.4% 90

100.0% 42 NA 0 29.7% 74 10.5% 76 26.8% 56
40.0% 80
rs1411736 AB_ASSAYS_ON_DEMAND 13 108.521 105060209
forward LGD
CGGAGTCTCTGAGTCCCAGGGCTTCTTTCTGCACCTAGTGAGAGAACAGTAATACTCCTCACTCCTCCTTACACA
CAAGGAAAATTCCTCCTGGAAGAAT[A/
G]AGAGGTGCGCCAATTTGCTAATTACAGCTACCAGTAATGTTAACAATACTCTCCAAGTAATGAAGTAAGATAA
TATGACCAAACTGAAACCTCAGATGAA A/G 922 0.172 0.069
0.482 0.027 97.5% 198 53.2% 156 22.4% 58 33.8% 80
NA 0 100.0% 66 100.0% 40 94.6% 92
92.9% 42 NA 0 50.0% 78 56.4% 78 22.4% 58
33.8% 80
rs1022876 AB_ASSAYS_ON_DEMAND 13 109.7326 105685383
forward MIT
TTACTGCTTGTTATTGCTGGTAGTGTTTTTTGTGGTTTTGGTTTTGAGATTTTGAGAGTTGCCATCAAAGATGAG
GAGAGGATGAGGACACCTAAAGACC[C/
T]CTGAAGTCTTCGTGATCTCCTCAATACCACGGTCAGGATGAAGTGCGGAGGATGGATTTAGAGAGAATGCCGT
TCCCTCCTCATCTGCCCCACACCCAGC C/T 1,713 0.093 0.027
0.042 0.019 83.3% 198 42.3% 156 62.1% 58 58.8% 80
NA 0 86.4% 66 80.0% 40 82.6% 92
88.1% 42 NA 0 46.2% 78 38.5% 78 62.1% 58
58.8% 80
rs440013 AB_ASSAYS_ON_DEMAND 13 113.8379 107163741
forward LGD
TAGTTCACATGGTTCTCAGAGTTAGAGACATTTACTCATTGCAATGTAGAGTATGCACCATTGAGCTTAGGTATA
TGTAATTCAAGTGGGGTATGCAAGT[A/
G]CTGAGTTTCTGAGAGACTTTAACATTATATTTTCCTCTTTATTAAATTAAATCAATCATTTTTAGCTTCTGAA
CTAGGAAGGAATGAGTGCTGGCTCCAA A/G 915 0.148 0.002
0.233 0.001 54.1% 196 100.0% 154 100.0% 58 100.0% 80
NA 0 53.0% 66 60.5% 38 52.2% 92
59.5% 42 NA 0 100.0% 78 100.0% 76 100.0% 58
100.0% 80
rs1538221 AB_ASSAYS_ON_DEMAND 13 114.2506 107312378
forward LGD
AAGTACCCTTCACCCCACTACCCAGTGTATTTTGGGAGCATGTTATTAGCTCAACATTTTAAACAGAATGTAATT
AATTCCCTTTCAAAGATCTTGCCAA[A/
C]AATCTCTCTCTTTGAAGTTGCCTCGTTAGTCGCTCCCAGATTTTTAAAAAATACCTTAAAACCACAGATTGTC
AGGAAACAACATATCTTCACCTATATC A/C 744 0.133 0.020
0.321 0.001 20.2% 198 71.1% 152 85.7% 56 75.0% 80
NA 0 27.3% 66 10.0% 40 19.6% 92
7.1% 42 NA 0 72.4% 76 69.7% 76 85.7% 56
75.0% 80
CV12129380 AB_ASSAYS_ON_DEMAND 13 118.5244 108704081
forward LGD
CACACCCTGCCCTAATAAGTCAATATTTCTGTTCCTCCTGGAGACCTCACATTCCAAAGTGTGGTACTTCGGGCT
CTTGTAAATGTTGGAATTCCTAAGA[C/

G]TCTCTCTGGAGGACAGGTAAGATGTCAGTGGGAACACACATACACACATGCACGTGCGTGTGTGCACGCACGG
CTGGCATGTCCATGGAAACTGCCTTGG C/G 1,144 0.129 0.000
0.196 0.007 77.8% 198 27.3% 154 25.9% 58 36.2% 80
NA 0 83.3% 66 77.5% 40 73.9% 92
95.2% 42 NA 0 21.8% 78 32.9% 76 25.9% 58
36.2% 80
CV1978827 AB_ASSAYS_ON_DEMAND 13 119.7063 109052111
forward LGD
GCACAATGGACAGGTCAGCGGAGCAGGTACAAGGAAACTCCCTCTCACTGATGGCACCAGGGCCTGCGCCACAAG
GGTTCTCAGGAGAAACTGACAAAGG[C/
T]ATTGCATCAATTTCAGGACACAATATTAGCATTTTTAATTTTGGAGTTGTTGCTTAAGTGAGTTGAAGTCTAT
TTAATTGTATAAAAATTCACTCATAAT C/T extended_map 0.104
0.008 0.225 0.005 76.3% 198 30.8% 156 20.7% 58
38.8% 80 NA 0 81.8% 66 75.0% 40 72.8% 92
82.5% 40 NA 0 32.1% 78 29.5% 78
20.7% 58 38.8% 80
CV11708288 AB_ASSAYS_ON_DEMAND 13 120.5374 109296852
forward LGD
GGGGCGCTGGCTGCGTCAGGCTGCCTTTGGCTCTCCTGTGGGGCCACCCTGTCCAGTGTCATTTCCCCTGCATTC
TCCCTCAAAACCCATTGACAACTCC[A/
G]AGCTTGGCGGAGCTGGGCTGGTCCTCCTCCTCCTCCCCTCACAGCGGCCGGCTGTGGATCTCATTCCTGGGAT
GTCAGTACCAGGAGGTTGGGGACTCCT A/G 804 0.156 0.067
0.070 0.004 42.8% 194 95.4% 152 74.1% 58 98.8% 80
NA 0 42.2% 64 36.8% 38 45.7% 92
35.7% 42 NA 0 94.7% 76 96.1% 76 74.1% 58
98.8% 80
rs958303 AB_ASSAYS_ON_DEMAND 13 123.6779 110685444
forward MIT
TTCTTGTTGCCATGTTAAGACAGCATGTAGTGGCCACTAATGTGAATTCTACTCCAAACAACACGGTCCCTCCGT
TACAGCAGAAAGGAAACTGAATAAC[C/
T]CTCAGATGCCACCTGGGAGTTATTTTTATTTTTACTAAACCACCTTTACCCCTTCGGAAGAATGCAGTGCAAT
TCCATGCAGTTCACATAATCTCATACT C/T 568 0.177 0.006
0.352 0.000 61.1% 180 4.5% 156 0.0% 56 3.7% 80
NA 0 65.6% 64 38.5% 26 64.4% 90
63.2% 38 NA 0 5.1% 78 3.8% 78 0.0% 56
3.7% 80
rs748144 TSCAF 13 125.2911 111049885 forward MIT

CAGTGGGAGCCCAGTGTGGAAGTGGATCCTTCTCCTGCTGAGCCTTCTGATGAGACCTGGGCCTGGCCACAGCTT
GCTGTCCTCAGGAGAAGCCCTGGGC[A/
G]GGAGGTGCCCAGCTACAGGCCCTGGATTCCCGACCCCATAAACTGTGCCATAATGTGTGCTTTAAGCCATTGC
ATTTGGGATAACTTGTTATTCAAAAGT A/G 1,079 0.194 0.022
0.159 0.075 19.4% 330 80.5% 308 65.5% 58 50.0% 80
19.7% 132 15.2% 66 10.0% 40 26.1% 92
23.8% 42 75.0% 156 86.8% 76 85.5% 76 65.5% 58
50.0% 80

rs7338609 AB_ASSAYS_ON_DEMAND 13 126.1924 111371990
forward LGD
GGCCCATAGCTCAGTCATGTGAACCTCGACACCACCCTGGTTTTCCAGGTGAGATGAGCCTCAGTGACAGGCAGA
AACACGTGGCCATGAGGAATGCACC[A/
G]GCCTGAGTCTAAGGGAAAGCTGCCGATTTCTAGCACTGATTTGCAGAGGGGTGGGCGAGCCTGCCCAGTGCCC
TGTGGTGAAGAGGAGTCTCTGTCCTGA A/G 1,420 0.167 0.022
0.149 0.008 62.1% 198 6.4% 156 17.2% 58 1.3% 80
NA 0 63.6% 66 67.5% 40 58.7% 92
61.9% 42 NA 0 6.4% 78 6.4% 78 17.2% 58
1.3% 80
rs3093261 SEATTLE_SNPS 13 127.1776 111724083
forward MIT
TGCCACCAGGAAGGCCCTTCTCAGAGGACCAGGCTGTGCGTGGTGCCCGCCGTGGGAGGCCAGCCTGGCGTTGGC
ATCCAGCATCATCAGTTTGTGCAGT[C/
T]GGGTGGGGCTCAGTGAGTGCCTCCTGTGTGCCAGGCACAATGACGCACAATGTGTGCACACCAGGCTCATGTG
CAGGTGGCTGCGAGACAGGGCGACCCA C/T 1,757 0.129 0.135
0.002 0.096 3.8% 182 42.3% 156 5.2% 58 10.0% 80
NA 0 4.7% 64 0.0% 28 4.4% 90
7.5% 40 NA 0 41.0% 78 43.6% 78 5.2% 58
10.0% 80
rs14067 AB_ASSAYS_ON_DEMAND 13 128.1138 112058661
forward LGD
TGGACCAGCCAGAAGCCAGCGGGGGCCAGGCGGGGTCTGCAGGCTGCAGGTCCCTTCCAGTCCTGTCCCTGCTGC
CCTCTGTGACCATCTCTGCTAAGAA[A/
G]CATCGACAGTTCGTCCTGCAGCCTCCAAGCACACTAACCTCAGCCATCAGATGTTCCTGAAGCCCAGGGTAAG
TCCTGTTCTCAGAAGCCAACCCAGCTG A/G 1,281 0.166 0.070
0.052 0.019 87.8% 196 33.8% 154 65.5% 58 50.0% 80
NA 0 82.8% 64 95.0% 40 88.0% 92
90.5% 42 NA 0 30.3% 76 37.2% 78 65.5% 58
50.0% 80
rs2258676 AB_ASSAYS_ON_DEMAND 13 128.2597 112110803
forward MIT
AGGCTGCAGCCAGCGTGGACAGCACGGGTGCTTCCATTGCTCTTCGGCCGTGATATTCGGAAGAGGAAGGGTGTG
AGACGCGCTCTGTGATAACCATCAC[A/
G]ATTGCCAAGCATAGGAAGTAGAGAAAAGAAATTCAGAGGCAGGCTTTGTGGGACCGACCCTTCCCCTCCTTGT
GGAAGGAGAGAGGGGGCCGAGCAGAGT A/G extended_map 0.133
0.112 0.013 0.033 78.8% 198 27.6% 152 67.2% 58
48.7% 80 NA 0 74.2% 66 77.5% 40 82.6% 92
73.8% 42 NA 0 24.3% 74 30.8% 78
67.2% 58 48.7% 80
rs6602890 AB_ASSAYS_ON_DEMAND 13 128.9626 112496795
reverse LGD
GGGAAGGCTCTATGGGCGCCGATGGTGCCGTGGTCTTTTGTGGGCGGTTCCTGGGCACCCTGGAGCTCGGGCTGT
GCCCCCGAAGCTGCCTGGTGCAGGC[A/
G]CCAGCACCTCTTGGTGTCCTAGGGGTGCGAACAGCAGAGAAGCTGAACTGCAGGTCTGGGCAGGGAGTCTATG
CCCCCTGGAGCTCTGGCCAGCAAAGTC A/G 249 0.273 0.040

0.167 0.003 97.4% 192 36.4% 154 60.3% 58 30.0% 80
NA 0 98.4% 64 95.0% 40 97.7% 88
95.2% 42 NA 0 39.5% 76 33.3% 78 60.3% 58
30.0% 80
rs4883654 AB_ASSAYS_ON_DEMAND 13 129.4041 112818612
forward LGD
CGGGAAAGTCACAGATACATGGACTATGGAATCAGGTGGCTCGTGTTGAGGGCAAGATAATGAAAAGATCACCAC
CTGAAACAAAAGGGTGGCACGCTAA[C/
T]GGGCCTCCTCAGTGCCACATAAGACACTCATCTCCTGTGACCAGAGGAAAACCAAAACACTGGATCAGGGCCA
GGACTTAACCGTGTAGAAGGCAGAGCT C/T 852 0.168 0.091
0.038 0.045 13.6% 198 68.8% 154 32.8% 58 43.8% 80
NA 0 12.1% 66 10.0% 40 16.3% 92
9.5% 42 NA 0 71.1% 76 66.7% 78 32.8% 58
43.8% 80
CV2763117 AB_ASSAYS_ON_DEMAND 14 5.7071 18976068
forward LGD
GATAATTGTGATAGGAAGAAGGAAGGTGATGTGATTAGAGCCAGCCCTGGGCACTGCTCTGGAAAGCTGGTCTTG
CTAAGGACCAAACATACAGCAAGCA[A/
T]CTGTATTAGAAGACTGGGGTTAAAATAATATATTTGTAAGGTTGAGAACAGTTGATACATATAGACCTCCCTT
ACCAGGGAGGTGCAGCCATCCCACAGC A/T 334 0.223 0.000
0.292 0.073 11.1% 198 74.0% 154 72.4% 58 42.5% 80
NA 0 19.7% 66 7.5% 40 6.5% 92
26.2% 42 NA 0 76.9% 78 71.1% 76 72.4% 58
42.5% 80
CV8211003 AB_ASSAYS_ON_DEMAND 14 10.1398 19616294
forward LGD
CAGTATGGATGAGGCAGGAAGCATACACTGGGGTGGAGTGGTGGGATGGGATGGGGTAGGGTGGTGGGTAATACA
GTGGATAGCTGATCAGAGCCTCCAG[A/
G]TTTATCATTTACTTTAAACCCACACTCTCTCTTCTGCTCCCCTCTCCTCTTTCATCTCTCTTCACCAATCTGC
ACTAAATTCAAAATTCTTAAGAATATA A/G 607 0.225 0.200
0.010 0.193 1.5% 198 52.6% 156 5.2% 58 6.2% 80
NA 0 1.5% 66 0.0% 40 2.2% 92
0.0% 42 NA 0 51.3% 78 53.8% 78 5.2% 58
6.2% 80
CV1436495 AB_ASSAYS_ON_DEMAND 14 12.1313 19914801
forward LGD
GAACTAAAACAACACTTAGTTACCTACTTCTGGGAAGCCATCTTGGCTCGGACTCCGGGACTGGGTGAGAGTGCT
TAAAGAATGTGAAGACCCTGTCGGT[C/
G]TTCTGTCCGACTATCTAGGTCCAGCCCGAACATACTCTGCTGTATACACTTAGGAGGCCCCTCAGTCACGACG
TGAAACCCTGGAGTAATGCCGTATGTG C/G 1,048 0.201 0.245
0.000 0.010 97.4% 196 48.1% 154 98.3% 58 60.0% 80
NA 0 98.5% 66 100.0% 40 95.6% 90
100.0% 42 NA 0 47.4% 78 48.7% 76 98.3% 58
60.0% 80
CV3266518 APPLERA_RESEQUENCING 14 12.6852 19997837
forward LGD

AGAGGCAAAAGAAGGGAGGGAGAGAAAAAGAGCAAGAGAATGAAAGGAGACAGAGAAATAGAAGAGAGACACTCA
AACTTCATACTAGAAGAGAATATTA[A/
T]AAATAACAACACCACTTTTCTTTTTTCAATTTGTCATCTAATTTTTGGGAAATGTTCCTTGGTCTTTTGACCT
TGTAAACTCAGGGCTTACATTCCCAAG	A/T	extended_map	0.13
0.094	0.020	0.059	71.6%	194	20.3%	148	55.4%	56
47.4%	78	NA	0	71.2%	66	65.8%	38	74.4%	90
	70.0%	40	NA	0	23.6%	72	17.1%	76
55.4%	56	47.4%	78
CV11720220	AB_ASSAYS_ON_DEMAND	14	13.41	20170342
forward LGD
CTTTTGTACCTTAAAAAATTCATTTCTTATCTACTGCAGCTACTAATATCTCACGCTAATTATTTTAAACACATT
AGCAGGTCATCATGTCATATGTGAC[A/
G]GGACTTAGCATACTTTTTGTGTGACTATATCACTTTAATTTGTGTGATGAAGCAGTGCCCCATTAATTATGTG
ACTCCTTCTAATACCCTTAGAGAAGAA	A/G	extended_map	0.09
0.053	0.020	0.025	71.2%	198	28.2%	156	55.2%	58
46.2%	78	NA	0	71.2%	66	70.0%	40	71.7%	92
	85.7%	42	NA	0	26.9%	78	29.5%	78
55.2%	58	46.2%	78
rs8006372	AB_ASSAYS_ON_DEMAND	14	15.1711	21249827
forward LGD
GGTGGTACTATTCATTACATTTGTTGAAAAATGGAGAAAGGGGAAGTGAAACCCTTGACAGCTCACTGGATCTTG
GTGTACTGAAATTTCCCTCTCACTG[C/
T]AATCAAAAGAATCTAAATGTGACCTTATGCAAAGAAGGCAGGCATCCCTTATGATAGCAGATCCTCAAACAAG
TATGTACCTCTCTCTTTAATGTACTAC	C/T	1,874	0.082	0.003
0.158	0.029	22.4%	196	62.5%	152	69.0%	58	42.3%	78
	NA	0	13.6%	66	15.8%	38	31.5%	92
19.0%	42	NA	0	61.8%	76	63.2%	76	69.0%	58
	42.3%	78
rs712486	TSCAF	14	15.3073	21415169	reverse MIT
TGCCCATCTTTACTGCCCCTGTGTTGGTGTCATTCCTTTCAGCGCACTCCATGTTCTGGCAAAACACCCACAGCT
CACGTTCTCGTTGTAGCCACATTAC[A/
G]CCTTTGCATTACTCTTTTGCCACTGACCTCACTGTCAGTCTTCTTGTCACGCTGTTTCCTCCAGGTGCTCTTT
TCTTAGGCTGTTATGTGAAAACCAGTT	A/G	287	0.249	0.000
0.336	0.021	4.0%	322	63.4%	306	65.5%	58	79.5%	78
	2.9%	138	1.6%	64	0.0%	38	9.8%	82
7.5%	40	65.6%	154	59.0%	78	63.5%	74	65.5%	58
	79.5%	78
rs910795	AB_ASSAYS_ON_DEMAND	14	15.6419	21622634
forward LGD
CACTGTGCTGAGGGTGTCCCCTTCCTTCTCTCTTGCAGTCCTTGTGACCACGACCTCTTGAGGCAGCTAGGATTA
CACTCCCCATCTCACAGTAGGGTGG[A/
G]CGAGTGATTTTGCCCAGCACTCACCACTGCAGTTAGAAATGGTGGACTGGAGATGCAGGCGCAGGCAGCCTGG
TTTTGGAGCCTGCATTCCTCTGCCTCC	A/G	extended_map	0.097
0.056	0.345	0.055	60.2%	196	16.2%	154	0.0%	58
41.2%	80	NA	0	65.2%	66	40.0%	40	65.6%	90
	54.8%	42	NA	0	12.8%	78	19.7%	76

0.0%	58	41.2%	80
rs6573011	AB_ASSAYS_ON_DEMAND	14	15.6926	21634241
forward	LGD
GGGGAAAGAAGGCATGGTCCTCCATGCTCTGTATGCTCAGCGGGGAGTTAAACATTGGAAAGAAACAGTTTCTAG
CCCCCTGGGTTCCTGAATGGCTCTT[A/
G]TTTTCTGTAGTTTGGGATATACTCCTGGGATCATTTGCATGTGCCTGCTTTTCTAGATCCATCTCCCTCTCCT
ACAATAACAACAAAACAACAACAGACA	A/G	1,440	0.144	0.035
0.391	0.054	79.7%	192	26.6%	154	8.6%	58	53.7%	80
	NA	0	74.2%	66	83.3%	36	82.2%	90
81.0%	42	NA	0	25.6%	78	27.6%	76	8.6%	58
	53.7%	80
rs2231809	APPLERA_RESEQUENCING	14	16.4904	21816950
reverse	MIT
AGGAAATGGCACTCATGAGAATGTTCTCTCTGACCACTCCTCTTGCCCTTCAGGAGGCCCTGTCCCCAGGGGAGC
CACTGGTTGTGTCCACCGGAGATCT[A/
G]CAGCTCCTGTACTTCTATGCTGGGCAATGCCAGAGCCACTACTCAGCCCTGCAGGCAGCCGTGGCAGCCCTGA
TGTCCAGTACCCAGGCTAATCAGCCCC	A/G	731	0.187	0.097
0.597	0.004	10.8%	194	67.6%	142	96.4%	56	74.4%	78
	NA	0	6.2%	64	7.9%	38	15.2%	92
10.0%	40	NA	0	69.4%	72	65.7%	70	96.4%	56
	74.4%	78
rs3561	AB_ASSAYS_ON_DEMAND	14	18.9505	22540352	reverse	MIT

GACCGCGCAAATATCCCCAAAGCTTTTGGGTCCTCAAGTCATGCCCGAATTTAGATGCTGGTCATTTTCTGGAGA
GGGGTCCCCTCCCCTTACGAACACA[A/
G]AAACCCAGCCCACATGACTAGCACGCTGAGCTCTGCAGGGACCAGTGCCAGGCACTGGGGGGTGGAAGTGTGG
TGACACAGTGAATGGGAGGTGGAGGAG	A/G	1,039	0.209	0.061
0.091	0.036	91.4%	198	32.7%	156	62.1%	58	55.0%	80
	NA	0	95.5%	66	82.5%	40	92.4%	92
92.9%	42	NA	0	28.2%	78	37.2%	78	62.1%	58
	55.0%	80
rs1956485	AB_ASSAYS_ON_DEMAND	14	22.5343	24853518
forward	LGD
GCTGAGTGAAGGGAGAGGCAGGCTGAAGGACTTTGAGTCCTGGTCCATTCATCTCAATTTTCCTAACTGAACAAC
CCACTCCCCGACTAGAAAAGTCCTC[C/
T]CCTTAACTGGGCTATAGCTACAGTCTACAGATAATGCAGCCACTGGATACTAAAAGCCACTAGGTGGCATTTG
TGATTTATTACTTTGGAAGCTGAGATT	C/T	188	0.286	0.043
0.205	0.000	88.4%	198	16.2%	154	37.9%	58	15.0%	80
	NA	0	95.5%	66	87.5%	40	83.7%	92
83.3%	42	NA	0	16.7%	78	15.8%	76	37.9%	58
	15.0%	80
rs1245193	APPLERA_RESEQUENCING	14	22.6415	24908596
reverse	MIT
AGAACAAAGCATTTTCTTAAAGTTACAATAGGTGAAGAATCATCAACAGCATGTGATTTTTGGAGCTATATAAAA
ATGTTACCTTTGGTGTATAGTTATG[A/
G]TCCCCTCTTGTTAAGATACTGATTTCTTATAAATTCTGTTGCAAAATTCACAGTGACTCAAGGAAAAATTTTA

TTTAATAATTTTGACCTGAAAATTGAG A/G extended_map 0.156
0.018 0.359 0.043 20.6% 194 76.1% 142 89.3% 56
52.6% 78 NA 0 15.6% 64 23.7% 38 22.8% 92
20.0% 40 NA 0 80.6% 72 71.4% 70
89.3% 56 52.6% 78
rs178215 AB_ASSAYS_ON_DEMAND 14 22.6911 24934101
forward LGD
ACTTTTGGTTGGTAAACATCATAATCTGTTAAGAGGTTACATTTTAATATATTTAATAAACAAGTAAAAATTATG
TAAGTTTGGGTTTCAAGTTGTAAGA[C/
G]TGTTGAAATGTTACAGTAAGTTGTCTCTATATTTTCTTAGTTTAAATTATTAAAATAATGAAAATGTAATGAA
ATAAAGATGTGACAAGTTTTGCAGCTA C/G extended_map 0.147
0.028 0.374 0.033 80.2% 192 26.6% 154 10.3% 58
47.4% 78 NA 0 78.1% 64 78.9% 38 82.2% 90
85.0% 40 NA 0 20.5% 78 32.9% 76
10.3% 58 47.4% 78
rs3783298 APPLERA_RESEQUENCING 14 25.374 28056968
forward MIT
ACCACATGTCTAGAGAGCGATTGTAGCCCTTGTTCCTTAGGACCTCAGGAGCCAGGTAAGCGGGGGTACCCACCA
CTGACCTCCGGAAAGACTTCTCTCC[A/
G]ATGATCCGGGCAAAACCAAAATCACAAAGTTTCACCTGTTGATGAAAGGATTTGCAGAAATACTCCGTTCACA
ATTGTGTGTCTGTGTGTCTTAGTTCAG A/G 1,807 0.088 0.007
0.072 0.108 85.5% 186 46.7% 152 57.1% 56 11.3% 80
NA 0 90.6% 64 91.2% 34 79.5% 88
92.5% 40 NA 0 51.4% 74 42.3% 78 57.1% 56
11.3% 80
rs1958980 AB_ASSAYS_ON_DEMAND 14 25.6325 28302130
forward LGD
ATGAAAATAGTCTTTCCTTTGAACCGCTTTTTCTGAAAGACTCCTGGGAGTATGGACCAGGCAGAGGGTTAAATG
TGGGGAGCGGGTATAGCAGGGAAGA[A/
G]AGAATGGCTGGCAACTCAAACTTTGGAGCAAAAGGTCATGAAAAAGACAGTATCCAAAAGTGAAATGGTAAAC
AAAAACTCAAACAAATCATCCCAACCA A/G 993 0.198 0.002
0.311 0.011 9.6% 198 67.3% 156 72.4% 58 55.0% 80
NA 0 4.5% 66 2.5% 40 16.3% 92
2.4% 42 NA 0 61.5% 78 73.1% 78 72.4% 58
55.0% 80
rs8022506 AB_ASSAYS_ON_DEMAND 14 28.5436 30012167
forward LGD
TATCCATATTATTTACATAATTGAAGAATGATGATGAACTGCTAATGTAGACAGAGAATGGAGATGAAACTAATT
TCTTATATAACCACTGAAGAGAAGA[C/
G]TGGTCATGGAGAGAAGAGTAGAACAAGAATTATAATCATGTTTAATTTTTCTTTCACTTGGAAATGACTTGAG
TGGGTTCAACCATTACTAAGAAAAATA C/G 845 0.163 0.112
0.043 0.082 44.9% 198 97.4% 156 69.6% 56 75.0% 80
NA 0 50.0% 66 47.5% 40 40.2% 92
45.0% 40 NA 0 97.4% 78 97.4% 78 69.6% 56
75.0% 80
rs7148271 AB_ASSAYS_ON_DEMAND 14 29.1821 30302681

forward LGD
TAGACAGCATTAAAAGTTGACACCTCTCTCATGATCAGTTTTGGAGAACACAGCCCAGGATTTGTGTTTGTCTAA
GAAAATAAACACACAAAGACAAGTC[C/
T]ATTTAGCTTCTTCCATTATTTTGTATTGTTTTTAACACACTGAAGTCCTGAGTAATGAGTCAACTACAACTAC
AGGCATAGTGGCCTCTCTTGCTTACAA C/T 463 0.193 0.000
0.246 0.003 3.6% 196 53.5% 142 53.8% 52 60.5% 76
NA 0 1.6% 64 2.5% 40 5.4% 92
4.8% 42 NA 0 45.6% 68 60.8% 74 53.8% 52
60.5% 76
CV1260598 AB_ASSAYS_ON_DEMAND 14 31.854 31131521
forward LGD
AAGTATTAATTTGTAGTCTGAATTTGAAAAGGAGTATCTCTAGTGATTTAGGTGCTAAATGCATACAAAATAAAG
GGGGGAAACATGCTGTTATTGATAA[A/
G]TAGCAAAGCAATTGTATTAAATCTCAGATGAGAAGGCAGCATTTCTAACATGATTAGGCTGCCATAACAAAAT
ACCACAGACTGGGTGGCTAAACAGCAG A/G 1,152 0.171 0.022
0.132 0.124 78.6% 192 20.5% 156 36.2% 58 61.3% 80
NA 0 81.7% 60 75.0% 40 78.3% 92
78.6% 42 NA 0 20.5% 78 20.5% 78 36.2% 58
61.3% 80
rs927329 AB_ASSAYS_ON_DEMAND 14 34.52 31937526
forward MIT
AGATGGATGTGTATATTCATGGATTTTGCACCACTTTAAGCACTAATAACATTAAATCAACCTTAATACTTCATG
CCAAATGTGCTCTAAAAGAGGGAAT[A/
G]ATGGGAATTTTTGTTGACTTTAGTAAAGCATCAAAAGTTACACTGGAAACACATAAAATGCTACAATGCAGAG
GTCACAATTATGCTAATATCATGATAA A/G 693 0.179 0.006
0.200 0.000 75.0% 196 15.4% 156 22.4% 58 13.8% 80
NA 0 77.3% 66 81.6% 38 70.7% 92
71.4% 42 NA 0 15.4% 78 15.4% 78 22.4% 58
13.8% 80
rs7149603 AB_ASSAYS_ON_DEMAND 14 34.7001 31987339
forward LGD
ACCTGCCACACCTTTTTATCAGTAAACCATATATTAATTTCTGTGTTCTCTAAATTCTCTTCCATAGAATTATTT
TCCCCTTCAAGAGAAAAAATTCATC[A/
C]TATAGGTGAAGCGTTTATTCTTCACACTATTCCTGCAAAGTAAGAGATTATCCTGATTATCTTTTATTGTGTG
TGTGGAAGGAGGGGTGAAGAAGGAATA A/C extended_map 0.175
0.014 0.152 0.033 15.3% 196 72.4% 156 59.3% 54
51.3% 78 NA 0 12.1% 66 28.9% 38 12.0% 92
11.9% 42 NA 0 70.5% 78 74.4% 78
59.3% 54 51.3% 78
rs1958052 AB_ASSAYS_ON_DEMAND 14 35.5368 32218760
forward MIT
TGTCTCCCAGAGATCAGGCAAAATGGGAAGTGGCAGGGCCTAGAGAGAGTGCTTGCCCCATCGCAGAGCATTCAT
ATGAAACATTCTTAAACACAGTGCT[A/
G]TGTATACTTTCATATCTGGAGCTGAAGGTGACCTGGAATACATGGATTTATTCTTCAGCCCTGGATTTTGAAT
TTGTTTCTTCACTTGGGAAGCTAGGTG A/G 406 0.2 0.076
0.581 0.061 85.4% 198 24.4% 156 1.7% 58 3.7% 80

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        NA      0       87.9%   66      82.5%   40      84.8%   92
90.0%   40      NA      0       30.8%   78      17.9%   78      1.7%    58
        3.7%    80
rs1958578       TSCAF   14      37.2744 32790862        forward MIT
ATTGACAAGATTTTTATTATTAAGGAGAATGACAAGTTTGAAATGAGATCTTAAAGCCAGGACACAAGGAACAGA
AACAATCACATGTGGGGATGCTTTC[A/
G]TGAGAATTAAAGCTGCAGATGAAGAGGCTGGAGTGCATGGATTTTTCCATAGTCTCTAGGTATGTTGTGTGTT
TTTCTCGATACGTGAATCTAACCAGTG      A/G             1,535   0.194   NA      NA
        NA      91.4%   116     34.5%   116     NA      0       NA      0
        91.4%   116     NA      0       NA      0       NA      0       NA
        0       34.5%   116     NA      0       NA      0       NA      0
        NA      0
rs1009920       AB_ASSAYS_ON_DEMAND     14      38.1864 34233034
reverse MIT
TGATGTAATTTAGAATTTGAACAACCTCATTTATATGTCTCTTAGCTGTTGATTTAGTTAAGGGGGGAAAAAAAG
AATTTTTTTTAAGAGTTCCAAACAG[C/
T]AGTAACGCTGATGTTAGTATCTGTTCTGCAGTTAATTTTCATTAGTCGTGACCCCTGAGGAATTTGATTATAT
TACTTCCTGAAGTGTTTGCATGAACTG      C/T             1,399   0.191   0.003
0.334   0.075   21.4%   196     82.7%   156     87.9%   58      52.5%   80
        NA      0       18.2%   66      23.7%   38      22.8%   92
26.2%   42      NA      0       82.1%   78      83.3%   78      87.9%   58
        52.5%   80
rs4900733       AB_ASSAYS_ON_DEMAND     14      39.2088 34748997
forward LGD
GCCTAATTTCTGTTATATTTCCCATTTGAAGTTTCAGATTTGTAATTATTGCTGAGCGCAAGAAAACATCAGGAA
GATTTGTGGTTTATGGAAGAATAGG[A/
C]ACCTTCCAACGTTAATCTTATCTCCCTATTGCAGGTAACTAGTATCTTCAGCTGGAAATATCAAATGCAAATC
TCTTAATTTGTTTAACACAGAGATTTT      A/C             1,061   0.227   0.011
0.452   0.003   71.4%   196     5.8%    154     0.0%    58      2.5%    80
        NA      0       69.7%   66      70.0%   40      73.3%   90
57.1%   42      NA      0       6.4%    78      5.3%    76      0.0%    58
        2.5%    80
rs1956424       AB_ASSAYS_ON_DEMAND     14      40.2    35521941
forward LGD
TTTGCAGGTGGCTATACACTTCAGTGTATAACCAGGAACATAAATAGATCAACAGCTTGTCAGGGTGAACACTAA
AGTCAAGGAGCCAACCATCAAGATC[A/
G]GGACAGGGGAGTGACCCTTGGGAAATAAGAAGCATAACAATCAGTTTAAAATACTGAAGGTTTAGATAAGTTA
TAGGGGTTTGATAAGTGGGCTGGTGTA      A/G             732     0.23    0.000
0.357   0.040   25.8%   194     92.2%   154     93.1%   58      75.0%   80
        NA      0       25.8%   66      27.5%   40      25.0%   88
54.8%   42      NA      0       92.3%   78      92.1%   76      93.1%   58
        75.0%   80
rs1952778       AB_ASSAYS_ON_DEMAND     14      41.4064 36303218
forward LGD
GAGCCACTGTGCTTAGCCAGAATGTTGATTTTCATTTGTAAGCCACTGTCGGATGCTTCACACTGTTTCAGGAAA
ATTTTCTTGGTATGGTGTGTGGGTC[C/
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T]ATGTGAGGATTAGGTCATCCCTGGTGAGTTATTTCACTTGGTAAATCAGATTAATTTAATAAGCTGCTTCATA
TCCTCTTGCTCTCACTTATCTTCAGGC C/T 218 0.277 0.018
0.549 0.013 14.4% 194 86.4% 154 96.6% 58 95.0% 80
NA 0 18.8% 64 22.5% 40 7.8% 90
31.0% 42 NA 0 87.2% 78 85.5% 76 96.6% 58
95.0% 80
rs1265880 AB_ASSAYS_ON_DEMAND 14 47.4397 48870475
forward MIT
GAGAGGAGGCTTAGCCAAAGAAAAGAAGTTTGATGAAACTGCTTTTTCTCACAAGACCTTATGGGATTTACTTCA
CCTAGCTTTTTGTCTCCAGCTACTT[C/
T]TGCCTCCTTCCACATGACGCATACATTAGCTACGCTCAATTGATATTTATTGAATGCCTACTGTGTACAAAGT
ACAGTGTAAGAAACTGGCTTTGTCACA C/T 1,089 0.119 0.074
0.429 0.027 69.2% 198 19.9% 156 0.0% 58 6.2% 80
NA 0 71.2% 66 65.0% 40 69.6% 92
57.1% 42 NA 0 19.2% 78 20.5% 78 0.0% 58
6.2% 80
rs1057804 AB_ASSAYS_ON_DEMAND 14 49.7314 50424093
reverse MIT
TCACAAATATATGAAAGCACCAGTCACAACACAGGATTTACTTTTACTTGCAGAATCAAAGCTATCATGTACACA
TGTTAGGAATAGTGAAAAGAGAACA[A/
C]AGACAACCGGCATTTTTTGTCGTTGTTACCATGAGGATACACCACGGGGAACATCTCCCTAAACATTTTGTGT
GATCATTCTTGGAGTTCAATCTGATAG A/C 1,570 0.142 0.217
0.000 0.143 64.3% 196 11.5% 156 63.8% 58 52.5% 80
NA 0 57.6% 66 71.1% 38 66.3% 92
69.0% 42 NA 0 7.7% 78 15.4% 78 63.8% 58
52.5% 80
rs1888344 AB_ASSAYS_ON_DEMAND 14 51.6072 52318720
forward LGD
TATCATCCAGCTCCACTCGTCTCTAGCCCACCAGCACCAGCTCCTTCCCTCGATAATCGTTGCTCTAGGAGGCTT
TTTTTGGTCAAAACAGTAATTCTCA[C/
T]AGTCTGTGCATTCTTACTTACCTGACTCAGTCTCAGCTTGCAACCACAAAAGGCCCAATTGCTTTCTTGCCAG
CAGAACAGCTATATCGGGTTGATGGAG C/T 762 0.243 0.144
0.061 0.126 20.6% 194 89.1% 156 48.3% 58 51.3% 78
NA 0 18.2% 66 23.7% 38 21.1% 90
33.3% 42 NA 0 87.2% 78 91.0% 78 48.3% 58
51.3% 78
rs6573007 AB_ASSAYS_ON_DEMAND 14 54.2951 53615979
forward LGD
ATGACACCTAAACCAATCTTCAGGCATCAGGAAAGGTTGTAGGAAGTAGCACCTATGCTGAAACCATATTTCATC
AAACTAAAAGATGGGGTGAGGCAAG[G/
T]GCTAGAGAGATGTTTCCAAAGCCAGAAATGAAACAAAGAAAAGTGGATTTAAACAATAGCTAGATTATAATAA
AAATCACCTGCATGTAATGGTCTTAAG G/T extended_map 0.252
0.010 0.433 0.000 4.0% 198 64.5% 152 75.9% 58
63.7% 80 NA 0 0.0% 66 7.5% 40 5.4% 92
4.8% 42 NA 0 57.9% 76 71.1% 76
75.9% 58 63.7% 80

rs8009244 APPLERA_RESEQUENCING 14 54.3113 53633793
forward LGD
CGCCACTGCACTCCAGCCTGGGCGACAGAGCGAACTCCGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAA
GGCATTTATTACCCATCTTAGCAAG[A/
G]GACTTATTATTAAGATCATATTCTTACACTTCTGTTTTTAAAGGAGTCCAGGTGTAACTGGGTGTCAAAAAAG
CATTGGCACTTCTGGGAGTCATAGGTG A/G 19 0.441 0.000
0.633 0.005 94.1% 186 7.9% 140 6.0% 50 12.5% 72
NA 0 98.4% 62 89.5% 38 93.0% 86
88.1% 42 NA 0 9.7% 72 5.9% 68 6.0% 50
12.5% 72
CV428372 AB_ASSAYS_ON_DEMAND 14 54.5258 53869726
forward LGD
CTTACTTTGGTAAAGGACGTAATCACTGATGATTTACAGCCAAGAGCCATGATTCATATTAGCCCGTCCCTCCCT
GTTAATCTCCACATCACCATCGAAA[A/
G]CTGGTGATTCTACAAGCTAATTAGGTCTTGAATCTGAGCCCTTTGCTCCTCCGTCTTCTTAATCTTACCCAGT
CTTTTTAAATACAAATCACGTAGGATT A/G extended_map 0.085
0.023 0.040 0.000 14.6% 198 52.6% 152 34.5% 58
52.5% 80 NA 0 13.6% 66 10.0% 40 17.4% 92
14.3% 42 NA 0 48.6% 74 56.4% 78
34.5% 58 52.5% 80
rs242413 AB_ASSAYS_ON_DEMAND 14 55.5535 54617842
forward LGD
TGTTTTAAGGTTCCCTGTAGAGGTAAAGGGGATTATGCAAAGAAATATGAAACCTCTCAACAGCCAGTAGAGATG
TGTAAGATAATGGAAGATGAACTTA[C/
T]GTTGTCACACAGGTCTGGCATAGAAGACTGTTATTAAGGTTCCATGACTAGAATCACACGTGTAAGACATGCC
AGGAAATAGCCCCTCAAAGACATCAGA C/T 1,585 0.161 0.000
0.256 0.093 77.6% 196 21.1% 152 18.5% 54 56.2% 80
NA 0 80.3% 66 85.0% 40 72.2% 90
69.0% 42 NA 0 22.4% 76 19.7% 76 18.5% 54
56.2% 80
rs1475520 TSCAF 14 56.6872 55108798 reverse MIT
ATGAGAAAACTGGGTGTGATTTTCCAAGCAGTGTTCCCCTTTCAGTTTTAATCACACACACTTTTATATGTGAAC
AACCATCACTGGTATTAAAGATATC[C/
T]TCAACAGTTCAACTATCTAAGGGAATATTTCATTTAGCTGAGAGAAATATCAAGTACCTTCTTTAAAAGGTTA
CATTTCAAAAAATACCCTTTCAGATAA C/T extended_map 0.178
0.000 0.258 0.035 78.8% 292 19.8% 248 19.6% 56
39.7% 78 87.5% 104 71.9% 64 76.3% 38 74.4% 86
61.9% 42 21.2% 104 20.8% 72 16.7% 72
19.6% 56 39.7% 78
rs8019850 AB_ASSAYS_ON_DEMAND 14 58.1754 55675475
forward LGD
CTTTGTGGCATAACAGCTCTTAAAAAGTAAATTTCCTTTCAAAGTATGATTCAGGGATTACAAGTGACTGTTATC
TTTGAGACTGTTTCTGGACTAGTCT[C/
T]GGCATATCAATGTTTACAACAAAATGTCAAAAAATTTTATATGAGTATTTTTCCTCTTACATAATAGTGTTAA
ACAGATAATTCTGTAAAGCATGTTCAC C/T 1,012 0.29 0.029
0.605 0.004 84.2% 196 10.4% 154 0.0% 58 15.0% 80

```
        NA      0       93.8%   64      87.5%   40      76.1%   92
92.9%   42      NA      0       10.3%   78      10.5%   76      0.0%    58
        15.0%   80
rs1189903       AB_ASSAYS_ON_DEMAND     14      58.2403 55742255
forward LGD
TTTGTTGACTGAATGATCTAAGTGTGTTTTACAGTATTTCAGTTGTATGGAAATCAGTCTTGTCATAACTTCCAG
CATTAAGAATTATACCAAAAAAGCA[A/
C]GCAACAGCCTTTTATTATCAGAGATAATTTGGGTTGCAAAAGGAAAAAAAAAAATTGCTGAGAAGATCTGAAA
ATTACATTACATTCTAAATCACATCTT      A/C             extended_map    0.224
0.032   0.514   0.000   23.0%   196     89.0%   154     100.0%  58
88.5%   78      NA      0       16.7%   66      20.0%   40      28.9%   90
        23.8%   42      NA      0       89.5%   76      88.5%   78
100.0%  58      88.5%   78
rs1953370       AB_ASSAYS_ON_DEMAND     14      58.3355 55840106
forward LGD
ACAGCTGGTCAGGGAATGTCCCTCACCTTTACCACCTATCTCAATAGATCTAGGAAGTGGCTTTTTCTTTGCTTA
ACAATAGGTCCAGTGATAAGCAGAA[A/
C]TGCCCTCCTTCAAAGCTCCCTGAAGTGCAAAAAGACTAAGGAAGATCAAAGGAACCATTAGGCACTCCCTGAA
TTTCAAAGGTTTCTCCTATGGGAACTC      A/C             extended_map    0.272
0.125   0.106   0.029   77.6%   196     5.8%    154     39.7%   58
18.8%   80      NA      0       80.3%   66      75.0%   40      76.7%   90
        81.0%   42      NA      0       3.8%    78      7.9%    76
39.7%   58      18.8%   80
rs424062        APPLERA_RESEQUENCING    14      60.2847 58606954
reverse MIT
ACACTACCTGTCCTTTACTCACACATTTTAGAACATATTTTGATAAATCATGAGATATGTGTCTGTATTTATTTG
CCTTTTTCCTTTTTTTTTTTTTTTG[C/
T]CTGTTAGGGTTTTTTTAATGGCCTTCGAACAGAACTTGCCACATACCCAGGTATAATAGTTTCTAACATTTGC
CCAGGACCTGTGCAATCAAATATTGTG      C/T             1,896   0.103   0.009
0.236   0.036   44.7%   170     88.9%   144     96.2%   52      71.1%   76
        NA      0       56.9%   58      50.0%   36      32.9%   76
26.2%   42      NA      0       88.6%   70      89.2%   74      96.2%   52
        71.1%   76
rs959728        TSCAF   14      61.1913 59924059        forward MIT
TCTGAGTTCTAATTCTGGCTTAGCTGGCCCACTTGTCTTTAAGAAGTTCCCCTGCCTTTTATTTTGAGATAAGCC
TCTCCACCTAAATGTGTGTTCCTTA[C/
T]TTCTGGACCTGTTGGCCAACGTACCTTTAGGGAGTGCCCCTCCAGCTGGCTTCAACATGTGGGGTCGTAGCGG
GGCTGCAGCCTGCCCTGTCCAGCTCTG      C/T             521     0.255   0.041
0.585   0.123   17.4%   304     86.8%   266     100.0%  58      48.7%   80
        17.6%   108     15.6%   64      15.0%   40      19.6%   92
28.6%   42      83.9%   112     93.6%   78      84.2%   76      100.0%  58
        48.7%   80
rs2284999       AB_ASSAYS_ON_DEMAND     14      61.4086 60176519
forward LGD
TTGTATTGACACCTTTATTTTTGCTAACCTATCCCTCTAAATTCTGGATATTGTGTGTGCCACAGCTTTTTTTCT
TCCATATTCCTGCATTTATTTGGCA[C/
```

T]CTGTTGTGCCAGTAATAGATAAGGGGCTGCTAAGGGAGGAGGCAACCTGCACTGGCTTATAGCTGCTAATGTC
AGTTCCTATAGCTTATCGTCAGTGTTA C/T extended_map 0.304
0.021 0.599 0.006 16.2% 198 91.6% 154 100.0% 58
86.3% 80 NA 0 13.6% 66 27.5% 40 13.0% 92
16.7% 42 NA 0 92.3% 78 90.8% 76
100.0% 58 86.3% 80
rs1957757 AB_ASSAYS_ON_DEMAND 14 61.4176 60186989
forward MIT
TCAAAATAAATGAGTAGTATACTGCTTTAGATCATGGGTTTCCTAGTCCATTAAAAACACTTTTTGGTCATATTT
TCTGGACACCCCGACCCTTTTGGTA[C/
T]AGAATATAACCTATGTAATTCTCTAAAGTTAAATTAACCTCACTTTTCTTGCTCTAATATGTGTAAAACTGAC
CTTCTAGGAAAGCATATACAGTTTATA C/T extended_map 0.277
0.013 0.535 0.011 78.8% 198 6.4% 156 0.0% 58
13.8% 80 NA 0 75.8% 66 70.0% 40 84.8% 92
70.0% 40 NA 0 5.1% 78 7.7% 78
0.0% 58 13.8% 80
rs1268646 AB_ASSAYS_ON_DEMAND 14 62.9633 61782542
forward LGD
GAAGAGCCAGGGCCAAGAATGGTAGCAGAAGGTCGGATGCAGATCGGGCACTCTGAAAGGTCCCCACGGTATAGT
AAGGAGAAAGACAGAGCAAACAAAC[C/
T]GGCTGGGGAGGTTACTACAGTGACCTAGGCGAGTACTTTGCCTACAACTTCAGATACTGAAAGCCCTTCATGG
TAAGTTCTATGTCTACAGGAGAGGTAT C/T extended_map 0.238
0.019 0.219 0.188 17.2% 198 84.6% 156 71.4% 56
35.0% 80 NA 0 18.2% 66 7.5% 40 20.7% 92
16.7% 42 NA 0 85.9% 78 83.3% 78
71.4% 56 35.0% 80
CV2819086 AB_ASSAYS_ON_DEMAND 14 63.0567 61891335
forward LGD
AAAAAGAAAAATAAAGGTCAGCACTAGAGGTAGAACAAGTCCCAGCCCTTAGTATGCTGCTCTCCTCTCAATACT
CAGTCCCCTATCACCTTTTCCACTA[C/
T]GACCTCTGTGTCCAGGGCACATGGATATCCTTAATTTCTTTACTTCCAGTTACATATAGAGCAGTTTTGACAT
CTCACTATCATCTCAAATTCAGGCTGG C/T 175 0.297 0.006
0.481 0.024 94.4% 196 25.3% 154 17.2% 58 42.5% 80
NA 0 97.0% 66 97.5% 40 91.1% 90
100.0% 42 NA 0 23.7% 76 26.9% 78 17.2% 58
42.5% 80
rs7144688 AB_ASSAYS_ON_DEMAND 14 63.4778 62603514
forward LGD
AGTTCACTTGTCCCTTGGAACCTCTGCTGAATCACATTTGGGCTTGAGGGTGTTGTCCGTGGTTCAGCTATGCTT
TGCCGCATCACTCAGTCTTTGCACA[C/
T]TGATCCTGCTTTAGCACTGCCCTTGTGGCTGCTGCCCATTCAGAGGACCTCTGCCATCGCCATCACGGCAGGC
GGCACACGCTGTGCTGTTTCTGCACTT C/T 1,560 0.203 0.051
0.110 0.083 82.3% 198 19.9% 156 44.8% 58 52.5% 80
NA 0 84.8% 66 90.0% 40 77.2% 92
92.9% 42 NA 0 20.5% 78 19.2% 78 44.8% 58
52.5% 80

rs2649196 AB_ASSAYS_ON_DEMAND 14 64.1032 63293292
forward LGD
ATTATTTACAAATAACATGCAGTGTCTCTCGGTACTGAGTTTGTGGGTCTGCTCAATACGCTGTCAAGGCAAAAC
AAAAAAAAGGGTACGGTCGGTGGGG[C/
T]TTATTGTCATTTCCCCATTGCCCCTTCTGTGACCCTCTTTCTCCTTTGTCCCTGCCTCAAGCATCCCTGCACT
CCTAACCTCCAAGTTGAATGACCCAAG C/T 2,033 0.108 0.002
0.196 0.000 33.2% 196 80.1% 156 84.5% 58 81.2% 80
NA 0 23.4% 64 55.0% 40 30.4% 92
19.0% 42 NA 0 78.2% 78 82.1% 78 84.5% 58
81.2% 80
rs3742853 AB_ASSAYS_ON_DEMAND 14 65.6068 64831799
forward LGD
AGCGCTTCCTTTCAGACTTTTGTCTCACAATATAATGCCAAGGATAATTTGTACTTCTTAGAAGGGAAAAGTCAA
AGAAAGATGATAATAGTGATCATCA[C/
T]AGTAATAGCAGACTGACAGACATGCAAAGGAACTGACACTATCAGTCAATGGGAAAATAGGGCACTCAGATTC
TTCTATTTTTAAATCTTCCACAACAAT C/T extended_map 0.275
0.125 0.090 0.074 86.9% 198 15.6% 154 55.2% 58
45.0% 80 NA 0 84.8% 66 77.5% 40 92.4% 92
81.0% 42 NA 0 16.7% 78 14.5% 76
55.2% 58 45.0% 80
CV2169370 AB_ASSAYS_ON_DEMAND 14 65.7632 65105712
forward LGD
AATGCTTTAGTTGTTGCCTGTTCCCTAACAGATAAGTGAATGTTCACCTAAGGAGACTCAGGAGAAATCCCCAAT
ACTGAGACAAACCCAGAGATTGAGG[G/
T]ATAACTGTTCTGATTCAGAGGGTTTTGTTTGATCTTACCCCTAAACTTTACAATGAAAGTATGTTTGGTAATA
CAGTTAATATAAAAATCAGGGTTGGCT G/T extended_map 0.279
0.241 0.038 0.187 76.8% 198 4.5% 154 55.2% 58
47.4% 78 NA 0 75.8% 66 75.0% 40 78.3% 92
54.8% 42 NA 0 5.1% 78 3.9% 76
55.2% 58 47.4% 78
rs2144061 AB_ASSAYS_ON_DEMAND 14 65.9979 65516603
reverse MIT
TAAAATTGTTCTGAAATCACATAGTTAATTCCTGACTAATCCCCTACTCTAGTGAGTTTTCTAATCTTTCCTTTA
TTGAGGAGTAAAAGAAAAACAAACG[A/
G]TTTAAGCCTAATGATATGCATATCTAAAAGAATGTGAACCAAAGACGTAGGATAAGGGCAAACTGTATAATAA
CAATCCTTGTCTAAGTGGGGACACAGA A/G extended_map 0.26
0.153 0.062 0.093 83.7% 196 13.4% 134 57.1% 56
46.2% 78 NA 0 84.4% 64 90.0% 40 80.4% 92
81.0% 42 NA 0 13.2% 68 13.6% 66
57.1% 56 46.2% 78
rs2295903 AB_ASSAYS_ON_DEMAND 14 66.0594 65624359
forward LGD
TATCACTTGTCACTTTTTGCACCTTAAAAAATCTATTCTTAAGCACTTTTGCAGGTAGAAGAGAATTGGAGGTAT
GATTATAGCTAATAATAGGCTAAAC[G/
T]GACCATTGCCTTTTGACTTGATGATGCAATAAGCAGTGTTTAGCCATGCCAAGGGAACCTAAAAATCTAGTAG
CCCATTCCCCACTCCAGGTTATACATT G/T 575 0.295 0.241

0.046 0.156 21.2% 198 95.5% 154 44.8% 58 57.5% 80
NA 0 24.2% 66 12.5% 40 22.8% 92
45.2% 42 NA 0 94.9% 78 96.1% 76 44.8% 58
57.5% 80
rs3759757 AB_ASSAYS_ON_DEMAND 14 66.3128 66067868
forward LGD
CTGCTGGAGCCGTACCTGATGGTGAGTGTGAACGAGGTGCACGTGGGCCAGACCAGCACCAATGGAGGACCACCA
AACCCATGTACAATGAGGAGCTCTA[C/
G]ACTAACGCCACTGATGGCGGCCGTCATCCATAAGATGCCCCTGGGCTATGACCACTTCATGTAAACGTGTATG
CTGTAATTAATTCTTTCTTTCTTTCTC C/G 970 0.249 0.021
0.210 0.061 9.9% 192 76.0% 150 60.3% 58 47.5% 80
NA 0 9.4% 64 13.2% 38 8.9% 90
15.0% 40 NA 0 74.3% 74 77.6% 76 60.3% 58
47.5% 80
rs181464 TSCAF 14 67.5926 67339095 forward MIT
TAGTGGTGTCCTCATATGTCTTTGCTCCCAAATCAGATACTGCCAGCAGGGCTTCTTCACATAGGCCCCCATAGC
CTTCTACAGAACAGCAGACCCACGG[C/
T]GGGCTCCGGGCCTCAGTCCTCCATGGGTCCCACCCAGGGAGACAGGCAGCCTGGCTGGCTAGGATAGTGTCGG
GGGGGAGGGGTGGGAGCCCCAGCACTG C/T 1,796 0.155 0.174
0.003 0.000 13.4% 292 65.7% 268 17.2% 58 66.2% 80
11.5% 96 7.6% 66 21.1% 38 16.3% 92
9.5% 42 65.2% 112 67.9% 78 64.1% 78 17.2% 58
66.2% 80
rs8013598 AB_ASSAYS_ON_DEMAND 14 68.3563 68230164
forward LGD
ACTGGTGGGAATTCAGGAATTTTTCAAAGAACAGGGATGGATTGGTGTTAAAATCTAGGAAGTCTGATTCCTAAG
ACCCCCACACCACACTGTCACTGTT[C/
G]ACGTAAAGATTTTTGCCCCTAGCTTTTCAGGGATTTGGAAGAAGGCAGAATTAGAAGCACTAGAAAAATGTAG
CTTTTAGCTTCCCGAAAGCATGCGGAT C/G extended_map 0.102
0.018 0.069 0.001 72.2% 198 26.6% 154 41.4% 58
22.5% 80 NA 0 77.3% 66 72.5% 40 68.5% 92
61.9% 42 NA 0 20.5% 78 32.9% 76
41.4% 58 22.5% 80
CV8658089 AB_ASSAYS_ON_DEMAND 14 68.4138 68337389
forward LGD
ACCGACAGTATTGTGTTCATTTCTGGTCTAGATTATCCCCGCAACACCCCCCACCAATTGGTCTAATAAAGAATT
TCACTGCCTTGAAACATGTACTATT[A/
G]AACGACCTAGTGGTTCTTTTGACCAAACTTAATCCAGGCAATCTCTGGCCAAGCATCAGTTTATGTCAGGGCA
ATTGACTCTTAACTGGCAGCCTGAGAG A/G extended_map 0.122
0.149 0.566 0.136 18.7% 198 66.9% 154 100.0% 58
98.8% 80 NA 0 15.2% 66 27.5% 40 17.4% 92
35.7% 42 NA 0 65.4% 78 68.4% 76
100.0% 58 98.8% 80
rs1952202 AB_ASSAYS_ON_DEMAND 14 68.4217 68352115
forward MIT
GAAAAGGGGTGAGTTTCTGGTTTCCGCCAGTGTCGAAGGTTTCAGTTAGGAAATGTGAAGTAGAGCTGATAGAAC

AAGTAGCCAGCGATTCTGTTTGAAG[A/
G]AGTAAAGGTAGATCTTGGTGTAGGACTCTTGATGCTGGTTAATAGCAATGAGATCAATGTAAACATCCACCCA
ACTGAATGGCAAATGCTCTGCAGCAGT A/G 291 0.243 0.035
0.552 0.033 16.7% 198 84.6% 156 98.3% 58 97.5% 80
NA 0 12.1% 66 15.0% 40 20.7% 92
28.6% 42 NA 0 83.3% 78 85.9% 78 98.3% 58
97.5% 80
rs7146783 AB_ASSAYS_ON_DEMAND 14 71.0167 71014044
forward LGD
AGTTAATAGAGGGTGATAAGAAATAGAGAATTTAAAAAGTGTTTTGAAATTATTCTAGGTTAAGTGTGGATTTTC
CCACCATCCCCTGCCAGCGTTTCTC[A/
C]GACATCTCAGACTGCACTCTCTCTCCCCAGTTTTAGACATCATTGAGGAAGAAGATGCCACGGAATTCTTTGC
ATTCCCTTTTAAAATCATTTCTTTTGC A/C 1,652 0.188 0.000
0.246 0.009 9.1% 198 64.7% 156 63.8% 58 53.7% 80
NA 0 4.5% 66 10.0% 40 12.0% 92
7.1% 42 NA 0 65.4% 78 64.1% 78 63.8% 58
53.7% 80
rs1860716 AB_ASSAYS_ON_DEMAND 14 72.6367 72703314
forward LGD
CATTGACACTAACAATAAGCTCAATTATTCATAAGCAGATTATGTTTGGTGCATTATCCATGGGGGCCTGGACCC
ATTACCCTCCACCCAATTGGGTTCT[A/
T]GTGAGGTAAGCTGGGCGTTGATGTTGAATTGTGTGTGTGCACGTGTGTGCGTGTGTGTAAGCCAAGCCTTAAA
CTGCACGGCAGTAACCCCTGCCTGGCC A/T extended_map 0.086
0.005 0.183 0.003 60.7% 196 18.8% 154 12.1% 58
13.8% 80 NA 0 62.5% 64 60.0% 40 59.8% 92
69.0% 42 NA 0 21.8% 78 15.8% 76
12.1% 58 13.8% 80
CV2640035 AB_ASSAYS_ON_DEMAND 14 72.649 72710814
forward LGD
TCATAGCCACAAAGGCACCTAGAGGCAGAGCAGAAATCCCCAGTCTAGGGCTTCTAGCTGCTGCACCACAGTCCA
CTCACAGGGAGTATGGGCACTGTGT[A/
G]GGTGTTCCCCTGTACTGGAGCCTTAAGGGCTTGGGATGTATTAGAAATGTGGGGAGAGGCCGGGCGTGGGGGC
TCACGCCAGTAATTCCAGCAATTTGGG A/G 1,470 0.141 0.001
0.207 0.138 93.9% 196 50.0% 154 46.6% 58 90.0% 80
NA 0 97.0% 66 90.0% 40 93.3% 90
97.6% 42 NA 0 51.3% 76 48.7% 78 46.6% 58
90.0% 80
rs1045430 AB_ASSAYS_ON_DEMAND 14 73.02 73120276
reverse MIT
CATAACCATCAGCCAGAAGATGCCGCATGCTCCCCTGTGTCTGGAGGATTTTGTCACCTACAAGCCTTGTCTTTA
CCTCACCTGCTCCCTGCCCATATCT[A/
C]CCACAGGCCACTTTGGCATGGTATGTAAGCTGAGCTCTTCATTCTGTCATGAGAAGAGGACCATGCTGCTATC
ATTTATTTGGTCCTTTGAAGATCTCAG A/C 763 0.246 0.001
0.253 0.006 0.0% 186 49.4% 156 44.8% 58 58.8% 80
NA 0 0.0% 64 0.0% 32 0.0% 90
0.0% 40 NA 0 47.4% 78 51.3% 78 44.8% 58

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        58.8%   80
CV25938923      APPLERA_RESEQUENCING    14      73.02   73591778
forward LGD
TGCCAGGTAGCTAGTCCAATGAGACAGAACATTGAAAAGATGCTGAAGTATAGGACCCGAGTGTTTGTTGACTCT
AAAAAAAAACAAAAGCATTGTAAAC[A/
G]TAATGAAGTGAGCCTCCTCAGCTGGCTAAACAATGGCAGGGGAGGTGGGTAAAGGCAATTAATTAACTTCACT
CTGTCCCTAGGTCTAACAGTAGGATTT     A/G             extended_map    0.07
0.100   0.371   0.105   14.6%   198     48.7%   154     84.5%   58
85.0%   80      NA      0       10.6%   66      12.5%   40      18.5%   92
        9.5%    42      NA      0       47.4%   78      50.0%   76
84.5%   58      85.0%   80
rs175723        TSCAF   14      74.11   73979621        forward MIT
TCAAATCCTAGATATGCAGTTTCCCAGGAGACAGCCAATAGGGAAGGGGAGAAAAGGGGTTAGGGAAAAGTTAAA
AAAAAAAAAAAAGAAGAAGAAGAAG[-/
GAG]AGGAAGAAGGAGGAGGAGGAGGAGAAACCCAGGCTAGCATAGAAGGATCTCTCTACTGGGGCACTGCCTCT
GTTGCTAGCACAGCCAGCAAGGGGAGATG   -/GAG   microsatellite rather than a SNP
        513     0.178   0.003   0.317   0.020   21.3%   310     80.2%   262
        86.2%   58      65.4%   78      23.2%   112     18.2%   66
10.0%   40      26.1%   92      16.7%   42      83.6%   110     76.3%   76
        78.9%   76      86.2%   58      65.4%   78
rs2075141       AB_ASSAYS_ON_DEMAND     14      74.2434 74055217
forward MIT
CCCACAGGGCTGGGATTACAGGCATGAGCTATCACCCAGCGCATGCCTTGGCTTTGTTGCCTTGCCAGGCATTGT
TATAGTTGCTTGTTAATTTCACAGA[A/
C]TTAAGTCTAAGTCTTCAGTTTCCAATTTCCAGACCTCCGCTCCCCACCTTTTCCTATTTAACTTGTCTCTTGT
TACCTCTCAGCCTTGGCTCTGCTCTGA     A/C             extended_map    0.148
0.027   0.099   0.114   74.5%   196     20.0%   150     37.5%   56
58.8%   80      NA      0       84.8%   66      63.2%   38      71.7%   92
        57.1%   42      NA      0       11.8%   76      28.4%   74
37.5%   56      58.8%   80
rs7155651       AB_ASSAYS_ON_DEMAND     14      75.228  74626512
forward LGD
TTCAGATGCATGCTCAAAGTTGAGAACTACTGTAAGAGAGACAGCTGTTTGTGGTGTGTTTTTATAAGGGAACAC
TTTGAGTAACTTTCTTAGTTGTAAT[A/
G]TCTCCTGCTTTTCACCAGAATGCAGTTTTCATTGCCCATTTTGGAGATCTCCACAGTGATTTAAGAGTTATTA
TCCTGCGTGTTAATGACCCATGAATCT     A/G             1,133   0.146   0.001
0.154   0.008   2.6%    196     42.0%   150     37.5%   56      52.5%   80
        NA      0       0.0%    66      0.0%    38      5.4%    92
0.0%    42      NA      0       50.0%   74      34.2%   76      37.5%   56
        52.5%   80
rs221436        AB_ASSAYS_ON_DEMAND     14      80.4224 78124411
forward MIT
GTCACTGCTGTAAGATCCCTGAGCATGGTCCAGTAAAGGCTTTTCAGGTCCTATCTAGGCTTCCTGGGACATGCA
GACTGATACACAGCTTCAATCTTTG[C/
T]ATGTCAGGGGGTGCTGAGGAGAGCAGGGCATACCAACTCAGTTCAAGTGCTCTTCACAGAATTCCTCTTCTTC
AGTCTTTAAAATGCACACGGATGACCT     C/T             310     0.231   0.072
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0.618 0.014 9.8% 184 73.1% 156 96.6% 58 60.0% 80
NA 0 10.9% 64 0.0% 30 12.2% 90
12.5% 40 NA 0 73.1% 78 73.1% 78 96.6% 58
60.0% 80
rs2273173 AB_ASSAYS_ON_DEMAND 14 80.7574 78760992
reverse MIT
AGGGCTGGTATCTTGAAATACTAGGCTGCAACTGATGGCTAACCCAGGGTCAGAGAAAGAAAACTCCCTTGTGAT
ATATCATTGCATAATTGCATAAAGC[A/
G]GATGTGTAATAGAAGCTTGTATCTTTCCTTAAAACATCTGGCATTAGTCATTATGAGAAGCAGGTGCCTAGGC
TGGACAGACAACATGTCTATTCCAGGA A/G 1,055 0.148 0.032
0.393 0.001 30.8% 198 85.3% 156 98.3% 58 82.5% 80
NA 0 21.2% 66 27.5% 40 39.1% 92
35.0% 40 NA 0 88.5% 78 82.1% 78 98.3% 58
82.5% 80
rs1868631 APPLERA_RESEQUENCING 14 80.8767 78987573
forward LGD
ATATGAGATGCATTTGCAAGACTGACTCAGATACAAAAATTCTTCCTGGATAATTGCTTTCAACTGATATGCTAT
GAAACTTTCTATAGACTATTTCATA[C/
T]TAATATTAATTTACAAACCTGCTTCAGTGAACATCAGAAATAGACTATGAGGTAATACTGAGAAACAGATGAA
TCTGCAGTTACTTATCTATGGAGTATA C/T extended_map 0.209
0.030 0.488 0.000 78.1% 196 14.1% 156 1.7% 58
15.0% 80 NA 0 74.2% 66 62.5% 40 87.8% 90
64.3% 42 NA 0 16.7% 78 11.5% 78
1.7% 58 15.0% 80
CV27854604 APPLERA_RESEQUENCING 14 81.2392 79676477
forward LGD
AAGAAACCCCCAAAGTAACCATTAATCTTCCACTGCATTAAAGTGGATCACGATGGGTCTCGGGGGTTCGCCCGA
TTCCCCACACACAGTTTTTGTTCTG[C/
T]AGCCACTCGGGGAGCCCTCGTCAAGCCAGCGCGGACGGGCCCCTCGGGGGGAAGCGGCGGCTCCCCTCCCGCC
CTCCCTCCCGGCGGCCGGGTTCTGGGG C/T 900 0.155 0.006
0.147 0.045 93.4% 196 46.2% 156 55.2% 58 71.3% 80
NA 0 92.4% 66 95.0% 40 93.3% 90
92.9% 42 NA 0 44.9% 78 47.4% 78 55.2% 58
71.3% 80
rs1652578 TSCAF 14 81.7148 80527795 forward MIT
ATCTTTGCATCTTGCATAGAGTATGTGCACATAAGTTGTAGTTTATTGTTATATATATATATATTTAGCTGTGTT
CCATATAGAGGACAATCAATAAATA[C/
T]AATTTCTCATGCCTGTGTTCCTCAGATGTCTGGAGTGTGGTAAGGACATGTCACAAGGTTAAAATTCAGAATG
GAAACCTCAGAACCTGTCATTCTCTGC C/T 1,678 0.14 0.033
0.066 0.074 94.5% 308 51.9% 264 73.2% 56 82.5% 80
95.5% 112 89.4% 66 97.4% 38 95.7% 92
95.0% 40 55.4% 112 50.0% 76 48.7% 76 73.2% 56
82.5% 80
rs1009799 TSCAF 14 86.091 85915999 reverse MIT
TCCTCTGTCTCTGTGTGGTGGAATCCTCAGAGAACTGACTGAAATTCTACCATAAAATTCATTTAAACACTGACA
GAGACTGAATTAACCAGGAAGATTC[A/

G]GTTTAAGCAGCAATAACCATTTCCAATCATAAGATTAAGAGCGAAGCTTTTGATAGATGCTAGGGGAAGTTAC
ATTCTTTGGACTTAAATGGTTTCATCC A/G 146 0.308 NA NA
NA 91.9% 124 18.7% 134 NA 0 NA 0
91.9% 124 NA 0 NA 0 NA 0 NA
0 18.7% 134 NA 0 NA 0 NA 0
NA 0
CV11474909 AB_ASSAYS_ON_DEMAND 14 86.7474 86764087
forward LGD
ATGGTATGTAAATTATATCTTAATAAAGCTCTTATTTTTTAAAAATAGATATGGAGTCCTTGTTACATGAAGATC
CTTTGGAAGTCATGAGCATCTAAGT[C/
T]GGTGAGCTAAACATTAGGATATTAACCAGAAGAACAAGCAAGTGACTCAGGCTACTGTGAAGAATAAATTACA
TATTATATGTTAAGCACTGAGTACTGT C/T 982 0.22 0.030
0.152 0.035 10.1% 198 71.8% 156 51.7% 58 50.0% 80
NA 0 10.6% 66 5.0% 40 12.0% 92
2.4% 42 NA 0 74.4% 78 69.2% 78 51.7% 58
50.0% 80
rs1287659 AB_ASSAYS_ON_DEMAND 14 87.117 87275741
forward MIT
AATCACTCAGTCCTGTGCCTACGTCCATAACCGCATTCTCTCACAGGTTTCCATCATAGCTCCTATCACCCTTTA
TTTAACGTATTTGTTTATATGCACA[C/
T]TTCACCCTATTTCTCTGGCATCTCATAGTATTTAAAAGAATTTTTGGCATAAATATCGGTATCAATAGATATA
CATCAAGCACTTTCTTAAGGAATTCCT C/T 1,634 0.143 0.100
0.015 0.087 3.6% 196 44.2% 156 10.3% 58 12.5% 80
NA 0 0.0% 66 2.6% 38 6.5% 92
0.0% 42 NA 0 47.4% 78 41.0% 78 10.3% 58
12.5% 80
CV2796704 AB_ASSAYS_ON_DEMAND 14 87.1869 87324207
forward LGD
TTTCTGTGTCCATTAATTAAGTATACAAGTATTCAAAAGTAATTTTATAGAACCCAAAGTCTTGAACCAACTGGC
TTATTGAGGCTTGAGCCTTCTTTGC[A/
G]TTGGGCGTTGCCACCTTTGGAAGCTGTAACACTGAAGCCTAGCACTGTGGGATGCTGTTGGCTTTGAAAAAGA
ATTTCAAATATAAAGCACATGAAGAAA A/G extended_map 0.077
0.004 0.160 0.045 76.3% 198 37.2% 156 29.3% 58
62.5% 80 NA 0 80.3% 66 75.0% 40 73.9% 92
69.0% 42 NA 0 39.7% 78 34.6% 78
29.3% 58 62.5% 80
rs3825663 APPLERA_RESEQUENCING 14 91.4979 88419790
reverse MIT
CATGATTTTCAGTTCTTTGGGCAGTGCCGTCATTGGGAGCAGAGATGTCTTTCTCCTTTTTGATCACCACTTTCT
CAGCCTGCTTCTGCGGCATTTCTGG[C/
T]TGCAGCTCATCATCACTGCTGGACAGACACCAGCCGAGGTCCTCCTGGGAACCGCTTTTCTGCCTTTTGGGAG
GTAAAACTGAATCTGTATTGCTGAATT C/T 100 0.337 0.002
0.449 0.001 13.6% 198 92.2% 154 89.7% 58 95.0% 80
NA 0 12.1% 66 15.0% 40 14.1% 92
17.5% 40 NA 0 93.4% 76 91.0% 78 89.7% 58
95.0% 80

CV2786870 AB_ASSAYS_ON_DEMAND 14 93.5065 89242009
forward LGD
AGATGACCCCCATGAAAAGCAAAAGGAACTGATGAGGAGTCCAAGAAGAAAGGAAGGAAAGCCACGTGAGAGGGA
ATGGAAACCTGGGTGTAATGAGACC[G/
T]GAAAACAGAATGGACAGATAGGGGGCAGCACCTAAGATTCCTTGTGCCTGAGGGTGAGGGTTCTTGCTGAGAC
GTGGGGAAGTTCCTGGCCCCCTCCCAA G/T 1,360 0.122 0.006
0.254 0.028 65.2% 198 15.6% 154 8.6% 58 32.5% 80
NA 0 68.2% 66 67.5% 40 62.0% 92
90.5% 42 NA 0 14.1% 78 17.1% 76 8.6% 58
32.5% 80
CV2812566 AB_ASSAYS_ON_DEMAND 14 97.9136 92264497
forward LGD
AAGGGTTAGCAATGATGGTGACGAGGAGGAGGAGGAGGAAGAGAAGGAAAAGGAAGAAGTGGGGGAGACCTGGCC
AGTGCAATGAGGTTGGGGAAGAAGG[C/
G]CCATGCAGCTCCCGGGTGCCATGCTCCAGGGCACACCATTCCTGGCCTGGGCCATAAGCGCAGTCATAGTTTC
CACCTGCCAGTGGGTCTGCCTTGGCCA C/G 792 0.156 0.003
0.295 0.092 41.8% 196 94.8% 154 98.3% 58 67.5% 80
NA 0 37.9% 66 47.5% 40 42.2% 90
40.5% 42 NA 0 94.9% 78 94.7% 76 98.3% 58
67.5% 80
rs1956721 AB_ASSAYS_ON_DEMAND 14 99.2681 92906437
reverse MIT
CAGCCTCTGCTTGTGACAAGAGGCATCCCAGATATCAGAGGCTGGACAGAGACATGGAGACAGAGTTGCTCTCTC
TCATCGCTCCTCTAGGCTCCATCAG[C/
T]CCTGCTACTTTGCTCCCCACTCCTGGGCTGTCTTCATCCACACATCCAGATGGCCGATCCTCACATCGCCACT
CCAGCTAATGAACGACTGGAAAGGGGG C/T 1,023 0.135 0.021
0.099 0.031 74.0% 196 21.7% 138 37.0% 54 41.0% 78
NA 0 76.6% 64 67.5% 40 75.0% 92
71.4% 42 NA 0 20.0% 70 23.5% 68 37.0% 54
41.0% 78
CV3110089 AB_ASSAYS_ON_DEMAND 14 102.4067 93910423
forward LGD
ACCTATAATGTTGTCAGGTTTAGTTTGCTGATTCCTTGGGAGGCTCAGGAGGGTGGACCCTGCCAGGTAGTTGCA
TTTCCTGACCAGACGCTGGATAAGC[C/
T]ACAAATCCACCCTGACTTCAACCTTTGCTGCAAACAGTCTCCCTGAAACAGATGAGGGTCCTGTTCCCGTCAG
CAGAGGGATAACACAAGTCATACCCAG C/T 581 0.179 0.002
0.328 0.003 41.8% 196 97.4% 156 100.0% 58 100.0% 80
NA 0 45.3% 64 40.0% 40 40.2% 92
42.9% 42 NA 0 98.7% 78 96.2% 78 100.0% 58
100.0% 80
rs1003229 TSCAF 14 107.4314 96161658 reverse MIT

CTAAGGACTGGAGTGAGATCCACTCAATGGGGTAACACTGAGACCCAGGACTGTGGAAATGTAATAAGATGACTC
AGCAGAATTCAGGCTGACATCTCCA[C/
T]GGACAAATCATACATTTTCTTATAAGTTGGGCCTTCAGAAGTAATATTCTTTTCAAAAAGTTAATAATAAGCG
AGGCTCTTCTATTCTAGCCAGAATCCA C/T 144 0.309 0.084

0.150 0.009 7.5% 334 79.5% 298 46.6% 58 88.7% 80
5.1% 136 6.1% 66 2.5% 40 14.1% 92
7.1% 42 84.2% 146 67.9% 78 82.4% 74 46.6% 58
88.7% 80
rs922408 AB_ASSAYS_ON_DEMAND 14 108.0108 96476161
forward MIT
TGGCTGTTTGCTTGTGGAATTCTTACCAGCCCAGTCCCAACCAGAAATCTCATAATATACCATGGTTGGTTGAAA
TACTGTTCCTGAACTGTGCCACTTT[A/
G]CTTTCTGACTGTCTGGTCATGATTGGTGGTGTCAAACCAGATATGTGTCCATCCTGCTGCTTCTCCTCAAGGC
AGAAGCTACAGTTTTTTAATAAAAAGC A/G 1,452 0.111 0.018
0.075 0.124 77.7% 184 30.8% 156 46.4% 56 72.5% 80
NA 0 75.0% 64 81.2% 32 78.4% 88
90.0% 40 NA 0 32.1% 78 29.5% 78 46.4% 56
72.5% 80
CV2984507 AB_ASSAYS_ON_DEMAND 14 113.0467 98056843
forward LGD
ATTCAAACTCAAGTCACCCTGAGCCTCTGGGTAACGGGGTTATCAGCCATCTGCTCAATGGTCACTGATAAGGAA
GTGACACTTCCCAGCATGGGAGAAA[A/
G]AGGGCAAACCTGGGTCAGGAATCAAGAATAGGGAGTCACCAGTGTCCCCTGATTAACAGTAACAGCAAACATG
ACAACAGACCAAGGGCACAACAGATTC A/G 882 0.187 0.251
0.001 0.074 75.5% 196 14.7% 156 72.4% 58 43.8% 80
NA 0 70.3% 64 77.5% 40 78.3% 92
71.4% 42 NA 0 17.9% 78 11.5% 78 72.4% 58
43.8% 80
rs3736951 AB_ASSAYS_ON_DEMAND 14 115.1134 98786442
forward LGD
CCATGTCTTTGAAGCACCCCTCCAGGGAGTCAGGTGTGTGCTCAGCCACCCTCTGCCCCATTCCTAGACCCTCAC
CCCCACCACTGTTCCTGTGTCTTCA[C/
T]GAGCTGTCCCTTACAGGCAGGGGCTTCCCACAGGCTGGGGGCCTCGGGGCGGGGAGCATGAGCTGGGCTGGCA
CCACGACTGAGGGCTCCCGGCCCGGCT C/T 615 0.229 0.155
0.027 0.029 1.0% 196 51.3% 156 8.6% 58 31.2% 80
NA 0 1.5% 66 0.0% 38 1.1% 92
0.0% 42 NA 0 46.2% 78 56.4% 78 8.6% 58
31.2% 80
rs730570 AB_ASSAYS_ON_DEMAND 14 115.6098 99132931
forward MIT
AAGCTCCAGCGCTGCTTCCTCTGGGAAGCCTTCCATGGTTTCTCTGACGGAGACACTCCCCTACTCCAGGCCTGC
AGCACTCACCTGCATCTCACACTGC[A/
G]ATGCAAAATTTGTGTGATTAATGGGTTCAAATGTGCCCCCCTCCCCTGGACTTTACAGGGTGCTGGAGCTGCT
GGCTTGCTGTTCCCAGTGCCAAGTCCC A/G 305 0.235 0.521
0.025 0.205 80.8% 334 13.9% 310 94.6% 56 65.0% 80
81.9% 138 86.4% 66 70.0% 40 80.0% 90
81.0% 42 17.3% 156 9.0% 78 11.8% 76 94.6% 56
65.0% 80
rs2720207 APPLERA_RESEQUENCING 14 118.9507 100339948
forward MIT

AGATTTTCTTAAAACCACCCTTCACAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAACAGAT
AAATAATATATTTTATAGGTAAGTC[A/
G]CGTGTGGATGGCGTTGTCCTTGTGTGTGGTGATGCTCATTTCCCCCCTCGATGCTCCCCTACCCCATCGTCTC
CTCTGACAGGACTCAGCATGTGGAGGG	A/G	extended_map	0.171
0.002	0.286	0.000	81.4%	194	23.9%	138	19.2%	52
25.0%	76	NA	0	87.1%	62	77.5%	40	79.3%	92
	76.2%	42	NA	0	17.6%	68	30.0%	70
19.2%	52	25.0%	76
rs730572	AB_ASSAYS_ON_DEMAND	14	119.0632	100377940
	forward LGD
CAGTGAGCTATGATCGCACCACTGCCCTCCAGCCTGGGTGACAGAGCCAGACTCGGACTCTGAAAATTAAAAAAA
AAAAGGTACCGGGATGCAGGAAAAA[C/
T]GTGCACAATTTGGTGACCAAATTGACGTAAGAAATGATAGCTGAAAATTAAGCTTTTTTGGTTTTTATATATA
GTCATTTGATTATATTCAGTGCCCTTT	C/T	extended_map	0.207
0.000	0.300	0.007	82.5%	194	19.5%	154	19.0%	58
27.5%	80	NA	0	89.4%	66	75.0%	40	80.7%	88
	85.0%	40	NA	0	15.4%	78	23.7%	76
19.0%	58	27.5%	80
rs2474680	AB_ASSAYS_ON_DEMAND	14	119.1518	100407828
	forward LGD
TTCATAAAGAAAATAGTAACCCCTTGCTTTGCTGGGAAGTCCCTCTGAAAGGGAAGGAATGATGGACCTTACCCC
AGCACCCATGACCTGGGCCCCAAGA[A/
G]GCTCACCAGTGACAATTTTGACTTTCTTTGTTAAATAGACATTACTACATAATTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGAGACGGAGTCTCGCTC	A/G	extended_map	0.205
0.009	0.210	0.001	83.8%	198	21.4%	154	31.0%	58
18.8%	80	NA	0	92.4%	66	75.0%	40	81.5%	92
	81.0%	42	NA	0	17.9%	78	25.0%	76
31.0%	58	18.8%	80
rs4906172	AB_ASSAYS_ON_DEMAND	14	119.2618	100444974
	forward LGD
CAGTATCCAAAGATGGAGAAGACAGCCTAACAAGTGATCTGTGGCTGGGAGAAAGTGAGAAAGTGAGATTCTGAG
AAGAGAGATATGAAGGCTTCTAGTC[A/
C]GGAACTGTGTATCTTTTATCTGAAACACCTACCACTTTCTGATTGACTTGCTTTGTGAGCTAACTTTTAGAAG
AAACACTGTTCTCTGATATAACGTTGT	A/C	extended_map	0.199
0.009	0.201	0.004	17.2%	198	78.8%	156	69.0%	58
85.0%	80	NA	0	7.6%	66	27.5%	40	19.6%	92
	26.2%	42	NA	0	82.1%	78	75.6%	78
69.0%	58	85.0%	80
rs1190610	AB_ASSAYS_ON_DEMAND	14	119.4516	100509015
	forward LGD
GCCACCTACTGCTTCTTCCTCTTCCTTTTCTCAGGCTCTGCAAGGAAGAGCTCCAGCTTCCTCTTGGAGAAGGAG
ATTCTGGGCCCCTTTTCTCTCTCCC[A/
G]AACCTAGGTGGTGGCCATGCCCCTCGAGCTCTGCTTGGCACGTGTCTGCCAGTCTCAGGGGGCTCCATGGGAG
TGAGGAAGGGCTCGGCGGCCCTGGGGG	A/G	extended_map	0.172
0.003	0.200	0.011	82.7%	196	25.3%	154	31.0%	58
15.0%	80	NA	0	90.9%	66	75.0%	40	80.0%	90

73.8% 42 NA 0 19.2% 78 31.6% 76
31.0% 58 15.0% 80
rs1131877 AB_ASSAYS_ON_DEMAND 14 121.7073 101332090
reverse MIT
CATCCTACTGACCACTTCATCAGCTGGATGTAAGGGACTCGAATTCCTTCATGTAAAAGGTTCCAGTGTCCCTTT
GCTACTCACCAGCAGATGTCCCAGC[A/
G]TTAACTGCTCTGCACAACCTCTGCTTTCATTCCGACAATAGATCTGAAGAGCCAGAATTTCTCTCTTGCAGCA
ATTATCCTTAAACACCTGAAAATGAAA A/G extended_map 0.355
0.163 0.109 0.043 93.4% 198 16.0% 156 62.1% 58
37.5% 80 NA 0 95.5% 66 95.0% 40 91.3% 92
95.2% 42 NA 0 17.9% 78 14.1% 78
62.1% 58 37.5% 80
rs749782 AB_ASSAYS_ON_DEMAND 14 121.7322 101458346
forward MIT
GCACTGGGTCTGATCAACGGTCTCCTGGAGCATGGTCTCTGAGGAAAGCTAACGCGGGAGCTCGTGAGGCAGACG
GCGGAGGCCCACTCCAGAATGAGAA[C/
T]CAGACCTAGTCTGTCCTGTCACAGAACGCGGGGTGCTGAGTTAAGCCAGTAAGTTTTAGTTAGCAGTCAAACA
GGTTTAATTTTGATAAAACTCTGTGAG C/T 677 0.243 0.000
0.386 0.009 25.5% 330 93.1% 306 94.8% 58 98.8% 80
26.1% 134 27.3% 66 18.4% 38 26.1% 92
21.4% 42 92.3% 156 94.6% 74 93.4% 76 94.8% 58
98.8% 80
rs4983500 AB_ASSAYS_ON_DEMAND 14 123.429 103017200
forward LGD
GAGCTGCACTTTCACCTACAAATGAGGGGCAGACTCAGCAGCGCCAGGCAGGGCAGTTGGACGCCCACCCAGGAC
AGACCCTGAGAAAGGCTGATCCCTC[A/
G]CCCCTGCCATCGCTCACTGACCCATACATTGCCCCTTCCTGCCAGGGCAATATCGAGGGTCGGCCAGTGTGCC
CCAAAACGGCAGCTTGGGACCCATTCT A/G 971 0.228 0.087
0.091 0.284 82.1% 196 16.0% 156 48.3% 58 77.5% 80
NA 0 83.3% 66 82.5% 40 81.1% 90
85.7% 42 NA 0 10.3% 78 21.8% 78 48.3% 58
77.5% 80
CV25995662 APPLERA_RESEQUENCING 14 124.6815 103902599
forward LGD
GACATATTGGAAGAAATATGGTGGCTTGAAAATGCCAACCCGGTTAGATGGAGAGAGGCCAGGACCAAACCGCAG
TAACATGGTAAGGGGGGGGACACCC[A/
G]CCCTGCCTGCCATGAGCCTGTCGGCCACGCGGGTCCTCGGCCCCCGGTCATGGCGCTGTGTTGGGGCGGTTGC
GCCCCCTTCCGCAGAGTCCCCACGGCC A/G 29 0.415 0.003
0.673 0.001 88.8% 196 3.2% 154 0.0% 58 1.3% 80
NA 0 95.5% 66 92.5% 40 82.2% 90
95.2% 42 NA 0 3.8% 78 2.6% 76 0.0% 58
1.3% 80
CV197451 AB_ASSAYS_ON_DEMAND 15 2.6573 21249393
forward LGD
TTTGCAGTGGGAAAAAGTACCAGTGGAAGGTAGCTCCTATGTAAATCTCTAAATGCTACAAATGAAAGCTTCTCT
GGGCCTATTCACCAGCACACCACTG[C/

T]GTATATCTGAGAAGATGCTGGGGTTTGTGGGAGCTGTCTTCACTCTCAGTATCTTTGGATTATCCTTGGGCTG
CAGCCTGAGGTATGGAAAAGAGTGGTC C/T 1,996 0.06 0.014
0.040 0.008 39.4% 198 8.3% 156 17.2% 58 15.0% 80
NA 0 39.4% 66 40.0% 40 39.1% 92
59.5% 42 NA 0 14.1% 78 2.6% 78 17.2% 58
15.0% 80
rs2714758 AB_ASSAYS_ON_DEMAND 15 6.7424 23026698
forward LGD
CCACAGGCCCCAGGCCAGTGTACGTCAGCCAGGTGCTCAGCCCATGGTGTGCTGAAGCTCTGACCCTTCCTGACT
CCGTGGTCTCCTGCACTGAGCTGTG[A/
G]TGACCATATCCAGGTCCTGCTAGATGCATGCGTGGGGAGGCAGGGTGCCCTGGGTTGGGTCAATGATGAGAAC
CTTGTATTATCTTGAAGAGAGGTGATG A/G 11 0.475 0.000
0.690 0.010 92.3% 196 2.6% 156 1.7% 58 7.5% 80
NA 0 92.4% 66 97.5% 40 90.0% 90
90.5% 42 NA 0 2.6% 78 2.6% 78 1.7% 58
7.5% 80
rs2719890 AB_ASSAYS_ON_DEMAND 15 6.8472 23066323
forward LGD
TTTAAAATCAGCGGCGAAGTGTTCTATCTCATTTCACCCATATATATCAGAGACTCAAATCCTGAAAAATACCAA
GTTGACCTGCCCATTCTTGAGTTCT[A/
G]CTGAATGGTGTGTTCCCAGATCACTATGGATATTGCTGTTTACTTGACCAATTACTTTTAGTCAACAAGATTT
GAACAATGCTTTTGATTCACACAGCGT A/G extended_map 0.46
0.000 0.674 0.010 8.6% 198 97.4% 154 98.3% 58
92.5% 80 NA 0 9.1% 66 5.0% 40 9.8% 92
11.9% 42 NA 0 97.4% 78 97.4% 76
98.3% 58 92.5% 80
rs4906708 AB_ASSAYS_ON_DEMAND 15 7.1092 23165340
forward LGD
TAATTCTCCCTTTTATCAATAAAGTGACATACTTGTCATCATCAGATTAACTACTTGAGAGGTTAATTTTAGAGG
CACACAGACAATCCTACCTCCATTG[C/
T]GCCAAATATACCCTTATACATGTAGTGTACAACATGTAGAATTTTTAATGACTCCCACCTCTGCTATAATATA
TGTTTCACAATGAAAGACAATATAAAA C/T 899 0.219 0.001
0.337 0.095 87.2% 196 24.0% 154 20.7% 58 60.0% 80
NA 0 86.4% 66 82.5% 40 90.0% 90
88.1% 42 NA 0 26.9% 78 21.1% 76 20.7% 58
60.0% 80
rs7496951 AB_ASSAYS_ON_DEMAND 15 7.2502 23218664
forward LGD
ATTTCTTATTTACCTACTAACTACAGAAGGTAGACTCACAATGTGCCAATATTAAAATGTTATCATTCCTCATTA
AAATATTTACTTAAGTGTTTTATTA[C/
G]ATGACTTACCAGCAATGGAAGAATCTCATCTGAGAGTAGTTCTCAACTGTCATCTATGAAAATCTTTAGAAAT
ACCAAATCATCAGAATTACTTTAATTT C/G extended_map 0.205
0.001 0.330 0.114 14.8% 196 76.6% 154 81.0% 58
37.2% 78 NA 0 16.7% 66 18.4% 38 12.0% 92
11.9% 42 NA 0 74.4% 78 78.9% 76
81.0% 58 37.2% 78

rs897177 AB_ASSAYS_ON_DEMAND 15 13.0139 25049483
forward LGD
TCTAGGAAGTATGCTATTTGTGTGGTGGTGAATGTCACACTTCCTGGAGCAACAGGTTTTCAGCACACGCTCACA
TTTAGCATGCAAACCAGGCATTCAG[C/
T]GACAGGACTGTGTTGTCATTAAGACTGTTTGGATGCTGCATCTAAAAATTCACTTTCCATTTAAATGTTTCTC
TTTCATGCACTATTTAATTTCTGACAC C/T 1,038 0.226 0.000
0.340 0.060 17.2% 198 82.9% 152 84.5% 58 56.4% 78
NA 0 21.2% 66 22.5% 40 12.0% 92
14.3% 42 NA 0 78.9% 76 86.8% 76 84.5% 58
56.4% 78
rs1800404 PARRA 15 16.0239 25838132 reverse MIT
CCCTCATGTCCACACAGGCTTTCGTGTGTGCTAACTCCCTCGTGCACTGGAACGCGGTAATTTCCTGTGCTTCTT
TCCAGATCGTGCACAGAACTCTGGC[A/
G]GCCATGCTGGGTTCCCTTGCAGCACTGGCAGCACTGGCTGTGATTGGCGATGTAAGTTGTCACAGTCCCAATC
CCTGGCTTACCACTCAGTGGGATGTCA A/G 444 0.325 NA NA
NA 90.9% 132 14.9% 154 NA 0 NA 0
90.9% 132 NA 0 NA 0 NA 0 NA
0 14.9% 154 NA 0 NA 0 NA 0
NA 0
rs7170869 AB_ASSAYS_ON_DEMAND 15 16.1809 25891107
forward LGD
TCCTTGGGCTTAAGTAATTCCTCAGACATAAGGATGCAATCCTTCCTTTTCAAAGCAAACGGATGGAACATGAAA
GACTCCTGTTTAGAGAACCACTGCC[A/
G]TGTAATTAAGCAAGTTTTCAAATCTCAGCCCAGTGTGCAAAGAAATCAGTATTGGAAGGATTGTTTTCAGGCA
GAAAAAACCCGAGGGAAGAAATCAGAC A/G extended_map 0.391
0.028 0.346 0.456 94.9% 198 14.7% 156 31.0% 58
91.0% 78 NA 0 95.5% 66 92.5% 40 95.7% 92
90.5% 42 NA 0 15.4% 78 14.1% 78
31.0% 58 91.0% 78
rs1129038 AB_ASSAYS_ON_DEMAND 15 16.3826 25959218
forward LGD
CACGGCCAGTCAGTCTCTCCACTCCCTCCTCCCGCCTGGCTCGAGGACGGACGCTTCTCATCAGACACACCAGGC
AGCCTACAGTCTACACAGCAGCGAG[C/
T]GCTCTGCTGCCTGGCTCAGGCTCTCATCTCACGAGGACGTTTCCCCATCTTAGTGTCCTGTTAAATAATCTTG
TGTAGAGTCCGAAGCAAAGGAGTCGAC C/T extended_map 0.431
0.481 0.005 0.532 0.5% 198 77.6% 156 1.7% 58
0.0% 80 NA 0 0.0% 66 0.0% 40 1.1% 92
0.0% 40 NA 0 79.5% 78 75.6% 78
1.7% 58 0.0% 80
rs4778140 AB_ASSAYS_ON_DEMAND 15 16.442 25979269
forward LGD
GACACCCACCTGAGATGGCCCCGGCTAACCCAGATGCAGTCCCTTTAGCAAGCACTGGCACCCCCAAGCGCGTGC
CGTGGCAACTCCACACCACTGTAAA[C/
T]TGAGAGAGTGTGAGCCATGTGATATCCTTCTCTGAGACAGGCCTACATGCTATAAACCAGGAGGCTCCACGGT
GCCCGGATGATCCCATCCACTTCTCAA C/T extended_map 0.247
0.002 0.385 0.001 35.4% 198 100.0% 156 100.0% 58

100.0% 80 NA 0 28.8% 66 55.0% 40 31.5% 92
40.5% 42 NA 0 100.0% 78 100.0% 78
100.0% 58 100.0% 80
rs916977 TSCAF 15 16.8463 26115723 reverse MIT
CCTCCTTGGTGATGGCTTAGGAGCTCTGCCCATGTGTGGAGGGCAACGGGAATTGGCCTTTCTGTTCTTCTTGAC
CCCGTGCAGCCTTGGCCAGCCTTCT[A/
G]TCTACTCAAACTGCATCCCCACTGTGGAGTTTGCCAAAACAAATCCCACACCACTGTTCCTTCATTCACAAAC
AGTTCACCCTGTCTCTCATAGATAAGG A/G 40 0.393 0.062
0.273 0.265 6.2% 322 87.1% 294 62.1% 58 28.7% 80
1.5% 130 3.1% 64 10.5% 38 13.3% 90
2.4% 42 86.6% 142 89.5% 76 85.5% 76 62.1% 58
28.7% 80
CV215233 AB_ASSAYS_ON_DEMAND 15 19.3653 26966049
forward LGD
GTGAGCAGGGGCTCTGTGGTGGGGAGGCGCGTGCCGAGGGCTGTAGGAGAGGGCGACGGGTGGTGCTGTGCATCA
GGTTCGGGGTGATGGGAACGCTGTC[C/
T]CTTGCACCTGCACATCAGGCCTCCCCCATGCTACTTTGGTGGCTTCTGTGGGAGCACAATATGTCCAGGGTGC
CATCCCCAAGGCAGAAGGGAGCACCAT C/T extended_map 0.362
0.006 0.416 0.088 7.1% 198 85.7% 154 79.3% 58
53.7% 80 NA 0 4.5% 66 2.5% 40 10.9% 92
0.0% 42 NA 0 84.2% 76 87.2% 78
79.3% 58 53.7% 80
rs4779692 AB_ASSAYS_ON_DEMAND 15 19.5638 27033067
forward LGD
TTCTTCCTGTTTGTAGGCAGGGTCAGCAAAAGGGCAGGTTTGTTCAGGTTGCAGGTCTGCTGGGGTAGCTCTGCC
TGACATGTTTATTCTGAGACCCAAA[C/
T]TAGAGGGTAGGGGCTGCATGGGGCTCGTGTTGCCCATGGTGAGTCAGAGGAACACAGGAGGAGCGGATGGAAG
CAGGAGATGGCCTGAGGTATAGCCTTG C/T extended_map 0.288
0.045 0.202 0.125 89.3% 196 17.3% 156 39.7% 58
57.5% 80 NA 0 93.8% 64 90.0% 40 85.9% 92
97.6% 42 NA 0 19.2% 78 15.4% 78
39.7% 58 57.5% 80
rs4779758 AB_ASSAYS_ON_DEMAND 15 19.762 27099972
forward LGD
AGCCTCAGGTCCAGAGAAAACAGGTTGGAGATTTGCTGAACTCCTGTGGGCAGATACACAGGACTGGGGTCAGGG
AACTGAGGATACTGGGCGGATGTTA[C/
T]TGAAGTGGTGGATGGCAGCGCCCAAGCTGGGCCAGTTGATGATTTTAGCAACAGAATGGGTTAGAGGTGAGAC
CAGGGATCAGCTGGCTGAGGGAGGGAA C/T 726 0.314 0.003
0.393 0.072 89.3% 196 14.1% 156 17.9% 56 42.5% 80
NA 0 92.4% 66 92.5% 40 85.6% 90
92.9% 42 NA 0 16.7% 78 11.5% 78 17.9% 56
42.5% 80
rs2004657 TSCAF 15 20.5044 27350570 forward MIT
TAACTTTTGAAGGAACAGCTGGTGGGATTTGTATGTGTATGGGCAGGGAGGTGAGGGAAAGGGACTGCTGTGCGT
TCCATGCATCTTGATTCCATTATCT[C/
T]TGTGGCCCTAATGCAAGCTTTCAGCTCTATAGGAATGCGAAACAACTGCAGATTTCCCATCGGGCACATGCCA

GAGATAAGTGCTTCCCAGAGATTCTTG C/T 1,326 0.257 0.007
0.271 0.056 90.6% 308 24.1% 266 32.8% 58 51.2% 80
91.1% 112 95.5% 66 94.7% 38 84.8% 92
95.2% 42 23.2% 112 26.9% 78 22.4% 76 32.8% 58
51.2% 80
CV9410156 AB_ASSAYS_ON_DEMAND 15 23.3214 29330797
forward LGD
TCACCTCAAATTCCTGTTATCCTGTCTCTGGGCTCTAGACTCAGACTAAAAAGGCATGTGAGATGGGTCAGGCCC
ACCCAGGGAGGGGTAAAATGTATTT[C/
T]GTGTGTGGGAAAGAAGGGATAGTTAACACCCTTGGGTCCATGCTATCCCTTGTCTTCTGTGCGGCAACCAGCA
CATTCTAGACAGAGGCTGCTCCATCAA C/T 1,117 0.204 0.001
0.274 0.024 18.4% 196 81.2% 154 79.3% 58 65.0% 80
NA 0 17.2% 64 12.5% 40 21.7% 92
19.0% 42 NA 0 76.9% 78 85.5% 76 79.3% 58
65.0% 80
rs534755 AB_ASSAYS_ON_DEMAND 15 26.3581 30889974
forward LGD
GTAATTAAAGAAAATTTTCACCCTCATGACAAGATCTAATTTTTGTCTTTTTTCCTCTTACAAGAAGCATTTAAA
CTCTCATGGAGGGAAAGCCACTTGA[A/
T]GACACCAGGTGGCAGAGGTCATTCGTTTTGCAGGGTCAGGGCTGGTCTTGAGCACAGGAAGCATAGCTCACCC
TCTTATGTGACTTGACAAGTTCTGGAA A/T 1,412 0.191 0.053
0.466 0.000 98.5% 196 53.2% 154 25.9% 58 51.2% 80
NA 0 98.5% 66 100.0% 40 97.8% 90
100.0% 42 NA 0 51.3% 78 55.3% 76 25.9% 58
51.2% 80
rs722150 TSCAF 15 27.3272 31130559 forward MIT
CTGACCTATAGTCACCAAAAAAAGTGAATAAGCTAAGTCTTATTTATTCTTGTCATATTCCAATTTTGTGTTTCT
ACTCCGTAAAACGTTGTTGTGTTCC[A/
G]CAAATTCAAGTAACCATGTAATTGTGCTTTAAAAGAAGAAAATTTTTTAACCCAGGCATGTATTAAACAATTT
TCTCCCAAAAAGTACATGCCTGGTGGG A/G 1,553 0.167 0.002
0.263 0.025 50.0% 192 100.0% 152 100.0% 58 93.6% 78
NA 0 46.8% 62 63.2% 38 46.7% 92
67.5% 40 NA 0 100.0% 74 100.0% 78 100.0% 58
93.6% 78
rs600637 AB_ASSAYS_ON_DEMAND 15 30.2407 31974890
forward LGD
AGCACGGTCCTCAGCAGTGGCTTTGAGCTTAGATGGAAACAGAAAATTATAATTTCCATCTACACCCCTTTAATG
GCTCCCCATATTCACCACCCCCATT[C/
G]TCTTTCATCCAGCCAATTTGAAAGATGAGATAAGAGTGAGAAGAGACAGAGAACCTGAATGAGAATGAATTTC
GACAGGTGAGGGTGTGGCACACAAGTT C/G 8 0.515 0.014
0.656 0.004 7.6% 198 100.0% 154 96.6% 58 98.8% 80
NA 0 9.1% 66 5.0% 40 7.6% 92
0.0% 42 NA 0 100.0% 78 100.0% 76 96.6% 58
98.8% 80
rs557225 AB_ASSAYS_ON_DEMAND 15 30.2703 31988370
forward LGD

GATTGTAAAGGAAAAAAAAGAATGAGAATAACAAGGGAGAAGATTTAAGACATCCTGGTTGAATCCATGATATTG
TTTAACATTATCTCATAGTAAACTA[A/
G]TATGACTCAGAGCAACTAGGCACAGAAGAAATAGGTACAAGGAACCCAAACATGTAGAGCTGAAGACACATTA
AAGTATGTAAGTATGTCAGGAGCAGCA A/G extended_map 0.332
0.008 0.450 0.001 77.7% 188 0.7% 152 3.4% 58
1.3% 80 NA 0 81.8% 66 81.6% 38 72.6% 84
100.0% 40 NA 0 0.0% 78 1.4% 74
3.4% 58 1.3% 80
rs347867 TSCAF 15 31.0136 32327020 forward MIT
CAGTAAAATGTGGCATTGTTATAGTTAGATAATACTTTGCTCTTTCTGTATTTAAACTTCCTTCCAGTTAGTTTT
CCCTGCCTACCTCTTCCTTGCTGTC[C/
G]TTTCAGACTGTGATCCCTGCCTACAAGAGACAGTGGCTGGGATTCGGGAAGTACTTTAAGCTCACGTGACCTA
CAGCCCTGAGGGAGTGGGGCGCTTGAA C/G 1,823 0.122 0.027
0.328 0.004 23.1% 286 72.2% 252 88.9% 54 65.3% 72
20.0% 110 16.1% 56 29.4% 34 29.1% 86
9.5% 42 76.8% 112 74.3% 70 62.9% 70 88.9% 54
65.3% 72
CV1357567 AB_ASSAYS_ON_DEMAND 15 32.2052 32869918
forward LGD
ATGTAGCCCTTACATAGAAAGCACGTGGGGAGCTTGTTACACATGATGACACCTAGGCTCTGTCCCAGACCTCTT
GTCAGGAATGTGCCTGTTTACTAGC[C/
G]CACAAAAGATCAAGAAACTCGGATATAATAGGATTGTGTCTAGACTTGAGCCTGACACTTGAGGCTTTATGTG
ACCCTACCACCCCATGATCTCTCTCCA C/G extended_map 0.136
0.110 0.011 0.026 8.6% 198 54.0% 150 16.1% 56
34.6% 78 NA 0 12.1% 66 10.0% 40 5.4% 92
9.5% 42 NA 0 60.3% 78 47.2% 72
16.1% 56 34.6% 78
CV438699 AB_ASSAYS_ON_DEMAND 15 32.4788 32994531
forward LGD
CTGGTTTTCTTCACTTGACCCATATTATTCCAAAATATTTATTTTAAATAAAAATCATCTAATTACAGGCCAAAT
GGAAAATGCCACATAAATCCACGCA[A/
G]AATAAAACAATCTGACTGTAAGCCAGTATAGTAGTAAAATATATCATATAACCCAGATATCAATGTTAACCAA
CAATCAACTCTTGGTGCTATGAATATG A/G extended_map 0.158
0.038 0.082 0.008 85.7% 196 32.1% 156 55.2% 58
42.5% 80 NA 0 81.8% 66 86.8% 38 88.0% 92
61.9% 42 NA 0 30.8% 78 33.3% 78
55.2% 58 42.5% 80
rs318331 AB_ASSAYS_ON_DEMAND 15 32.9708 33259908
reverse MIT
AAACTGTACGCAAGGCATTAGGTTAGAGTTTGAGATTTTATGAGTCAATACAACAGGACATAAGAGGGGAAGCAG
ACATGTCAGCTAATAAGTTACAAAG[C/
G]AAAGTGGTGAGAGACTAGCGTATCTGTGATATGAAGCTAAGTGTAGGATCTTGGATGTGGCAAGGGGATGTGG
TACACAGGTGTGGTGGATTGGAGCCAA C/G 887 0.244 0.128
0.057 0.110 7.9% 178 71.7% 152 29.3% 58 32.5% 80
NA 0 8.3% 60 3.1% 32 9.3% 86
25.0% 40 NA 0 64.9% 74 78.2% 78 29.3% 58

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        32.5%   80
rs741335        AB_ASSAYS_ON_DEMAND     15      35.5013 34777269
forward MIT
ACCCAGTTGTCATTTGTACCCTAATTATGTTATGGGGCTATCATGAAATGTAGAGAGAACTGGCCTGAGATCTGT
TATAAAAAAAAATTGCAAAAGGTTG[A/
T]GGAGAGATAAGAGATTATATTCAAGTGCAGAGTTAAGAATCATCCCTGGGCCTTCTGATAAAGGCAGATTAAT
ATTATAAGCCCCACACACCCTAAAATA     A/T             2,094   0.059   0.020
0.183   0.008   38.8%   196     8.2%    146     0.0%    56      2.6%    78
        NA      0       56.2%   64      30.0%   40      30.4%   92
47.6%   42      NA      0       6.9%    72      9.5%    74      0.0%    56
        2.6%    78
rs275183        TSCAF   15      39.5344 37161022        reverse MIT
TCCTAATCCTCAGGTGCACAGGCTCACGGAGGCTCCATGGTGTCAGGCATTGTCAGTTACTCTGGAAGTGTCTGG
GAATGTGGCACCCGCTCTCCAAGGC[C/
T]TCCACCCGGATGTGACACATATCGCTTCAGTCATGTTGTACCTCTGCTTGTCTTAGATGTCCCTTAGCCACAT
ATAACTGCAAGGATTTGGAAATAGCAA     C/T             51      0.376   0.000
0.556   0.006   88.2%   330     6.5%    294     5.2%    58      11.3%   80
        87.1%   132     89.4%   66      90.0%   40      88.0%   92
83.3%   42      7.1%    140     2.6%    78      9.2%    76      5.2%    58
        11.3%   80
rs679882        TSCAF   15      42.67   38475403        reverse MIT
GGGAGCAGCATGAGGTGAGAACAGGGCCTCTGGGCAACAGGAACAAACTGAAAATGCAAGTCCTTAGCTCCTAGA
GCAAGTGGCTGCAGCTCAGCAGGTC[C/
T]GTGGACTGATACAGTGTTGATTCTTGCTAGGATGTAAATTAGTGCAATCTACAAAAGACTAGGGAAAGGGTGG
CAGGGCAAGGGGAGCCACAGCACTCCT     C/T             extended_map    0.348
0.001   0.565   0.000   81.5%   286     2.4%    252     0.0%    52
1.3%    78      84.3%   108     80.6%   62      100.0%  34      70.7%   82
        95.0%   40      3.6%    112     1.4%    70      1.4%    70
0.0%    52      1.3%    78
rs7086  AB_ASSAYS_ON_DEMAND     15      42.8253 40167164        forward MIT

GGGCAGAGAGTTGAGGGAAGGAAGAATGGAGCTTGGGAGCATGGGATCATGTATGTATACCAGGAAAGAAAACAC
ACATTCTTTATTCTATTGCTTCAAA[C/
G]ACAGTTTGTGAGAATGGAAGATAACAAGCACAGCTGGCCAGGAAGGCAGGGCACACATGGCAGGTCAAGTTCC
TGCTATCCAGGGAGGTGGCCCAGAGCT     C/G             808     0.47    0.211
0.137   0.003   0.5%    196     82.1%   156     28.6%   56      87.2%   78
        NA      0       0.0%    66      0.0%    38      1.1%    92
0.0%    42      NA      0       84.6%   78      79.5%   78      28.6%   56
        87.2%   78
rs7182753       AB_ASSAYS_ON_DEMAND     15      42.9937 40825441
forward LGD
ACAGCTCGAGGCTACAACGAAGCCATGCAAAGAATAATAAATGAGCTTCAAACAGCAATACATTCAGCACACTTG
AACCATGAAGTAAATGGAAGAAACA[C/
T]GTCCTTTATTGTCACAATAAAACACTATTTAATTTCTAACTTTTAACTATGAAATTACAAGAAACTAGAGAGA
TTATCTCTAAATCACATCTTTAAAAAA     C/T             extended_map    0.358
0.026   0.267   0.002   100.0%  196     34.2%   152     53.4%   58
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38.8%	80	NA	0	100.0%	64	100.0%	40	100.0%	92
	100.0%	42	NA	0	30.8%	78	37.8%	74
53.4%	58	38.8%	80
rs502157	AB_ASSAYS_ON_DEMAND	15	43.1009	41244629
forward MIT
TAAAGACAGCAGGGCATGGTGTGATGTCCTGTTCCAGAGCCAGATTATTGGTCAGGCATAGACTAATTCCTGGAA
ACTAAGGGAAAGGAGAAGCACAGTA[A/
C]ATAAGTAAATACATATGAGAGGAGGTCTAGGCGTGCAGAGTTCCCAGGGTGGCCCCAGCTTCCCTGCTCTATC
CTGGGGGTCCCTGTGGGCCGCATGTGC	A/C	extended_map	0.332
0.000	0.407	0.003	0.0%	198	62.2%	156	63.8%	58
56.2%	80	NA	0	0.0%	66	0.0%	40	0.0%	92
	0.0%	42	NA	0	64.1%	78	60.3%	78
63.8%	58	56.2%	80
rs542898	AB_ASSAYS_ON_DEMAND	15	43.1497	41435448
forward LGD
CAACAAAGGTCCCAGATCTTTAATTCTAGAAAATCTGTCTAATCTCTCTCATTATTAGATGTAAACAAAGTCAGC
ATAGTATGCCATTCAAGATAACAAA[C/
T]AGTCACTAAATGCCAATACTGAGCTGACATTTGTAATGAGTCTATAATGAATCCCACTAAAAAATAAAGGTGC
ATTTCTTACCAACAGGTCTATGACCAC	C/T	extended_map	0.426
0.013	0.391	0.027	100.0%	196	25.3%	154	37.9%	58
43.8%	80	NA	0	100.0%	66	100.0%	40	100.0%	90
	100.0%	42	NA	0	24.4%	78	26.3%	76
37.9%	58	43.8%	80
rs560191	AB_ASSAYS_ON_DEMAND	15	43.1621	41483830
forward LGD
ACTAGCAGATAAGTTTAGCCTCTTTCAGCCTTAGCCTAAGACTCTCAGGCACATACTGCCTTGGCATAAGCTATT
TTAGGCTTACTTACGTGGAAAGACT[C/
G]TCCTGAACAAGGGACCTCTGACCAGAGAGCTGCAGGAGATGCAGAGTGGTGGCAGGAGTGGAAGCCAAAGAAC
ACCCACCTTCCTCCCTTGAAGGAGTAG	C/G	extended_map	0.424
0.013	0.392	0.029	0.0%	198	74.4%	156	62.1%	58
55.1%	78	NA	0	0.0%	66	0.0%	40	0.0%	92
	0.0%	42	NA	0	75.6%	78	73.1%	78
62.1%	58	55.1%	78
rs694985	TSCAF	15	43.1737	41529443	forward MIT
GCCCAGGTCCTTCACAACCCCGAGGTAAGTTCCATGCCAGAGTGTCTGGGAGAAAGGGTAGCACTAGAGCTGTGG
GAGGGATCTAAGGGAAAGTCTCATA[C/
T]TGCATGACCATGGGGGGCCCTGGCAGAAAGGTAAGAGTCCACCTTGGAAAGAGGTGAAGATTAGGGTACTGAA
TCTAAGTCAGACCAAAACAACTCTAGT	C/T	extended_map	0.229
0.109	0.086	0.141	27.6%	312	93.3%	268	62.1%	58
56.2%	80	24.1%	116	19.7%	66	26.3%	38	38.0%	92
	47.6%	42	94.6%	112	93.6%	78	91.0%	78
62.1%	58	56.2%	80
rs2255440	AB_ASSAYS_ON_DEMAND	15	43.1781	41546523
forward MIT
AGTCCAATGCTGAATGAAGTAAGAATCTTTACTTCGGTCCTATCCAAATAAAATAATGAAAGGCATATTTGATTT
CAGTTATTCCCCGGAGGCAGGATGA[C/

T]ACTTCACCAGTGCCTCTGGCCCATATTCCCACCTCCAATTACCACCAGTAGCTCCTCCTCTCTATAGTCACTC
TAACAACTCTGTGTGGCTCCACTGTTC C/T extended_map 0.245
0.089 0.117 0.128 23.7% 198 92.3% 156 63.8% 58
56.2% 80 NA 0 19.7% 66 17.5% 40 29.3% 92
45.0% 40 NA 0 93.6% 78 91.0% 78
63.8% 58 56.2% 80
CV11769012 AB_ASSAYS_ON_DEMAND 15 44.1712 43265015
forward LGD
AGCCTCCCAAAGTGCTGGGATTATAGGCGTGAACCACTGTGGCCGGCCTACTTTTCTTTATCAACTAAAGTAAGT
TCTGGATTTTGAACCTCATTTCCTT[C/
T]CTCCTGACCAACTCTAATAGAACCCACATAGATTTCTTGTTTCCAGTTCTCCCCACCTCCTGCCAATCTATCC
TATATAGCTTCTACCAAAACTACCTAA C/T 1,944 0.195 0.349
0.010 0.215 91.2% 194 34.7% 150 98.1% 54 87.5% 80
NA 0 90.9% 66 92.1% 38 91.1% 90
81.0% 42 NA 0 37.8% 74 31.6% 76 98.1% 54
87.5% 80
rs1426654 AB_ASSAYS_ON_DEMAND 15 46.8827 46142540
forward LGD
CTATTGTGTTTAGTTGTAAAGACATACTCTTTCACTTTATTAGGCATAACAATCATTTCATTTATGTTCAGCCCT
TGGATTGTCTCAGGATGTTGCAGGC[A/
G]CAACTTTCATGGCAGCGGGCAGTTCAGCTCCTGAATTAGTTACTGCTTTCCTAGGTAAATATTGCTCCTTATA
CTTCTTGCTTACTCAGTGTGATTTTTA A/G 2 0.583 0.722
0.008 0.850 97.0% 198 1.3% 156 93.1% 58 98.8% 80
NA 0 100.0% 66 100.0% 40 93.5% 92
95.2% 42 NA 0 1.3% 78 1.3% 78 93.1% 58
98.8% 80
rs7162626 AB_ASSAYS_ON_DEMAND 15 47.7201 46660671
forward LGD
ACATAGTTGTAACCCTGGTGGATGTATAGTTTTATCTTCTGCTCAACAGGGAGGAGAATTTGTTCAGCATTTGAG
TGTTTAACCTTTGCATTTTGTGGAT[A/
G]GGGTCCCTGGGTGAGGTCTGCCTAGCCATCTTTCTGGCAGAAAGCATGTACAACTGTTGAATTATGTTATTGA
AATCACTTTCATTACCTCAATCCCCCA A/G 1,508 0.288 0.000
0.386 0.033 94.4% 196 26.6% 154 25.9% 58 47.5% 80
NA 0 98.5% 66 97.5% 40 90.0% 90
95.2% 42 NA 0 32.1% 78 21.1% 76 25.9% 58
47.5% 80
rs3751631 APPLERA_RESEQUENCING 15 50.14 50250400
reverse MIT
GTAACAGACTCACTCTTCATCCTTGTTAACCAAGGAAAGCTATTACTGCAGTGGCCTTAAAAGAAGCTTGGGCAG
CCATAATCATTCAGAAGCACTGCCG[C/
T]GGGTATCTTGTTCGCAGCCTGTATCAGTTGATTCGCATGGCCACCATCACAATGCAGGCCTACAGCCGAGGAT
TCCTGGCAAGGAGGAGGTATCGAAAGG C/T 1,090 0.273 0.090
0.115 0.445 9.8% 184 79.2% 154 44.8% 58 5.0% 80
NA 0 15.6% 64 0.0% 30 8.9% 90
10.0% 40 NA 0 73.7% 76 84.6% 78 44.8% 58
5.0% 80

rs1441236 AB_ASSAYS_ON_DEMAND 15 54.1218 54853131
forward LGD
CTCAGACTTACTCATGGGAGAAAAGTGGCTATGCAGAGAGTATTCCTTGCAAACATTATAAGACCAATAAACAAC
ATGCCACACCTGGAACAAAAAAATT[A/
G]CAATTGAGGCAAACTATAGATATGCTGAAAGCCTGGAAGGAAAAGACAGGGAGACAGTTTCTTTGGAAAATTA
GGCATTCAAAAGTGTCCACATACATTG A/G 407 0.201 0.000
0.297 0.113 80.5% 190 18.0% 150 17.2% 58 56.2% 80
NA 0 77.3% 66 70.0% 40 88.1% 84
62.5% 40 NA 0 19.7% 76 16.2% 74 17.2% 58
56.2% 80
rs8034502 AB_ASSAYS_ON_DEMAND 15 54.3027 55165042
forward LGD
TGGAATTCCAGACCAGTGTTCTCTGAACAAGTGGCATCTGCCTTCTGGTCCCTGGGTGCCATAAAAAACAGAGTT
AAACACTGACCTTGCCTGGTAAGGT[C/
T]ATGGTCTAAATTAAATAGTCAAAATACAAAAAAGATGTGAGGTAATAATGGGATTTAGCAACAGTGAGCCTAA
TGTTCTGCTTATCATTGTATAATGCAA C/T extended_map 0.171
0.001 0.281 0.056 21.2% 198 79.2% 154 82.8% 58
52.6% 78 NA 0 25.8% 66 25.0% 40 16.3% 92
11.9% 42 NA 0 78.9% 76 79.5% 78
82.8% 58 52.6% 78
rs974828 TSCAF 15 61.3225 58571611 forward MIT
TGTGCCAGACAACTGCTCAGCCTTTTATACCTCTTGGCCTAACTAGACACACCTGCAGTTTTCCACATGGAATTC
CTCTTCTTGCACTTTGGCCTAAGCA[C/
T]GCATTTTTTCTAATGGTGGAAAATATTAAACAGACTTTTGCTTTAGAAGGTATCTCACTTCACTTCAAAGCAA
AGTCTACCTTGTGAATTTAATTAGGGA C/T 37 0.394 0.016
0.694 0.003 92.4% 290 10.4% 260 1.7% 58 13.8% 80
91.7% 96 90.9% 66 100.0% 40 90.9% 88
97.6% 42 10.2% 108 11.8% 76 9.2% 76 1.7% 58
13.8% 80
rs749504 AB_ASSAYS_ON_DEMAND 15 65.85 62146424
reverse MIT
TTCACACCTTCACACAGTCTACTGAGGATGTGTTTTGATGGGTGACAAAAATAGGTTTAGTTATATATAAGACTT
GCCATCAGAGGGCAAGACTCAGAGA[A/
G]CCCTGAGCAGCTTAGGGAAGCAGGAAGAATAAAAGAGAAAGGCTCTTGCTTAATGATAGGGACACCAAAAAAA
AAAAAAAAAGAGAGAGAGAAAGTCTCT A/G 653 0.312 0.026
0.245 0.025 3.5% 198 71.8% 156 53.4% 58 87.5% 80
NA 0 1.5% 66 2.5% 40 5.4% 92
2.5% 40 NA 0 67.9% 78 75.6% 78 53.4% 58
87.5% 80
rs8038016 APPLERA_RESEQUENCING 15 65.85 62711554
forward LGD
AAGGCGGTGGGTCTGCCCGCAGCTGCGGCAGCGCGGCCCAGAAGATGCGTTGTGTTTCCGGTAGTTTTCTGTGAG
GATTGACTCAACCTGGTCCTCATCC[C/
T]TATTCCTTGTTGGCGTGGGGCCGAACAGGGCTGTGCCATTTGGGAGGATATTAAAACAAAATCAGAAATCTTA
AGAGAACTACACACATATTAGCACCAT C/T 1,276 0.197 0.004
0.364 0.015 27.6% 196 89.6% 154 94.8% 58 97.5% 80

NA 0 25.8% 66 32.5% 40 26.7% 90
31.0% 42 NA 0 87.2% 78 92.1% 76 94.8% 58
97.5% 80
CV11303549 AB_ASSAYS_ON_DEMAND 15 65.9809 62944525
forward LGD
TTTTCATTTTAGCTGTTTTTGCTGCCTATTTATTTATTTATTTAATTGTGTCACTTTTATTTGTTGTATTTGCTT
TGTTTTTAATACCAAAAGTAACTTG[C/
T]TGGTAGTAACAGTGTCAAAAGACACATTCATAAAAAGTGAAGGCGTTGCCAGGTGCAGTGGCTCACATCTGTA
ATCCCAACACTTTGGAAGGCTGAGGTG C/T 2,060 0.055 0.193
0.027 0.038 24.2% 198 57.1% 156 8.6% 58 33.8% 80
NA 0 18.2% 66 22.5% 40 29.3% 92
28.6% 42 NA 0 52.6% 78 61.5% 78 8.6% 58
33.8% 80
rs6494531 APPLERA_RESEQUENCING 15 66.4323 63676013
forward LGD
TAAAAAATTCAATGATTCCCATATGAGTAGAAAAGTAATATAATTGTATCATGGGATAAGAGACTCTTCTTGGCA
ATAATAAAGCTAATAAGACTACTTA[A/
G]GACAAGGGGAACAAAATCATACGTAAGTGATCAATTTCCAAATAAAAAAATACACCAAAATACATACTGTAGC
TCCTTGTAAAGTAGCTGGCAGGCTGCC A/G extended_map 0.132
0.007 0.120 0.165 89.7% 194 43.6% 156 53.6% 56
88.7% 80 NA 0 89.1% 64 95.0% 40 87.8% 90
92.9% 42 NA 0 43.6% 78 43.6% 78
53.6% 56 88.7% 80
rs521504 AB_ASSAYS_ON_DEMAND 15 66.7467 64065617
forward LGD
GTTAAGCTGTCTTTTGTAGTAATTGATTTTGACAGTGTAACAAGTTAATTCGTCACTGTTTTGCAACTTCCTTGA
GAATGCATTGGTAAGCAGCATCCCG[C/
T]AGGATACCTTGTAATCACTTGTAAACTCAAATTAGGTCTCCCAGTTAAATATTGTTGATATCAGGTAGAGCTG
GGCTGCTACAATGACTACAAATGTGCT C/T 499 0.19 0.011
0.393 0.001 65.5% 194 5.8% 154 0.0% 58 3.7% 80
NA 0 65.6% 64 70.0% 40 63.3% 90
70.0% 40 NA 0 6.4% 78 5.3% 76 0.0% 58
3.7% 80
rs7359307 AB_ASSAYS_ON_DEMAND 15 71.8164 66702901
forward LGD
AGAGCCTCCTCCTGATCCAAAGCTGACTGTGCCCTGGGGGAAGCAGGGAGTGTGGGCCCCAGGGAGAGTAGGTAC
ACCCAGCATCTGAGCGTGCGTGAAC[A/
G]AGGCAGATCGTGGGCCTGTGTGTGTGCCACCAGGGCTGCTGCCCATCAGGCTGGTCACTCCAGTGGGTAGTAA
CAGCTTAACTTTAAACACTTTTACTTG A/G 640 0.205 0.005
0.391 0.008 34.7% 196 96.0% 150 100.0% 58 100.0% 80
NA 0 36.4% 66 27.5% 40 36.7% 90
33.3% 42 NA 0 95.8% 72 96.2% 78 100.0% 58
100.0% 80
rs896999 TSCAF 15 72.1665 66816395 reverse MIT
TTTCAACCCCAGCTGTGGATCAGAACTGCCAGGGGAGCATCTGAAGCAATACCCAGGCTCTGCCTGAACTGAATC
AGTCTCTGAGGGTGGTGCCCCAGTC[C/

T]GTGTATTTTTAGAAAGCTCTAAAGGGGACTCTAAAGCACAGTTGGGAACCACCCCATGGAGCAGGGTGCAGAG
CTTCACAGCAGGTAGGAAGAAGTAACT C/T 269 0.263 0.011
0.314 0.083 25.7% 304 95.5% 264 89.7% 58 71.3% 80
25.5% 106 28.8% 66 17.5% 40 27.2% 92
28.6% 42 96.4% 112 92.1% 76 97.4% 76 89.7% 58
71.3% 80
CV1481221 AB_ASSAYS_ON_DEMAND 15 72.8797 67047576
forward LGD
AAGTAAAAACATGAGGACCTGGAAACTCAGAAGAGTCTTCTGTAACTAGAGCTATGGGGGGTGGCGGGGGGTAGG
CAGGTGGAGTAGCAAGGAAAGAAGG[A/
G]AGGGACATACAGAGAGAGAAAAAGAGCATGAAAGGCAGGTGATGTGGCTGGCAAAGCCAGTTAGAGCTAGGAT
GGGACTAAGGAGGACTTCAGAAGCAAA A/G 1,331 0.148 0.047
0.085 0.147 56.6% 198 5.2% 154 22.4% 58 42.5% 80
NA 0 59.1% 66 72.5% 40 47.8% 92
78.6% 42 NA 0 5.1% 78 5.3% 76 22.4% 58
42.5% 80
CV2899623 AB_ASSAYS_ON_DEMAND 15 73.1 67601239
forward LGD
CCACCACACCCGGCTGTTCTGCCTTTTCTAGGTTTTAACTTGTTCACTTAAACTTGGACATGATCTCTCAGGTTA
TGGGCCCAATACCAAGAATCTAAGT[C/
G]CAGAGACCCAGGAGACAGAATCTGATTGGTCAATGGCTAGCCAATGGGGTGCCTCCCCTCAGTCAGGAGTCCA
TTGCTGTTCCAACAGCTGCAGCCAGGG C/G 1,070 0.217 0.205
0.019 0.092 24.7% 198 89.7% 156 39.7% 58 58.8% 80
NA 0 21.2% 66 17.5% 40 30.4% 92
21.4% 42 NA 0 88.5% 78 91.0% 78 39.7% 58
58.8% 80
rs2162235 AB_ASSAYS_ON_DEMAND 15 77.8888 70311243
forward LGD
TCCTCTCATAGCATCCGTGCTTCATGAGGCCAGGTACCAGGTCTGCTTTGCTCACATCTGTATTCCTGCTGTGGA
GTAAGTTGCTCAGAAGATGTTGGTT[A/
G]TGTGGTTGAACCTGTCTGCTTCACAGCTCACTCACATACTCTTAGTTGGCTTCTCAGCTGTGGGACTGGCTCA
TGGTTGTGGGCAGGGCTTAGTAGTTGG A/G extended_map 0.255
0.055 0.183 0.042 74.5% 196 5.1% 156 24.1% 58
21.2% 80 NA 0 77.3% 66 77.5% 40 71.1% 90
92.9% 42 NA 0 6.4% 78 3.8% 78
24.1% 58 21.2% 80
rs8030499 AB_ASSAYS_ON_DEMAND 15 78.0723 70500626
forward LGD
ACAAATGCTTGCTTTAAAGGGAGAAGAGCCAGTTTATTTTGCTCGGTAATGAGAAAATAGTTCTTTAGTAAAGTT
CTCAGGTGAGCTTATTACTAATGCC[A/
G]TTTAACTTCAAATGTGAGAAAATATGTTTACTTTTTAACCTGTTCACCACTTCACCTCTTATGAAGGGGAAAA
CTTAGGGAGTGGGCCTCAAATTACTTG A/G extended_map 0.32
0.019 0.314 0.011 88.8% 196 12.7% 150 25.0% 52
21.8% 78 NA 0 96.9% 64 92.5% 40 81.5% 92
92.9% 42 NA 0 11.8% 76 13.5% 74
25.0% 52 21.8% 78

rs1374092 AB_ASSAYS_ON_DEMAND 15 78.0951 70524246
reverse MIT
TTAAGAGCCTCAACTTGCAAAAAGGGAAAAAACAGAGGGGAGGGAGTATAACTTGATGTTGCTAGTGCCAAATAT
TGTTTCTAGCCACAAGTTCCCAAAT[A/
C]TGTTATTGGTTTATCAAAAGTAACTATGGTAAGTTTTGTTAAAACAGATTCCTAGTTTCCACCACCATGTTTT
TATTTAATATGGTTAGGGCAAGGGCTC A/C 113 0.328 0.049
0.256 0.012 85.6% 306 8.2% 268 27.6% 58 16.3% 80
85.7% 112 89.4% 66 90.0% 40 80.7% 88
92.5% 40 9.8% 112 3.8% 78 10.3% 78 27.6% 58
16.3% 80
rs1562250 AB_ASSAYS_ON_DEMAND 15 78.1044 70533865
forward LGD
TCTAGGAAACCCAGAAGAATCGACTGATTAACTATTAAAGTGATTGCCCATTAAAATCACCTGAGAAGTGAAAAA
AACCCACAGTGCCCAGTCCCTTTCC[A/
G]TTACTTCTTCCTTCAGTTCTCTTGGAAAATGAAAAGAAACATGGAATGTAAGTAGTTGTAGCTTCGGTGACCC
CTGTGTTCCTCCACATTCTTTTTTTTT A/G extended_map 0.285
0.051 0.211 0.013 18.9% 196 92.3% 156 72.4% 58
83.8% 80 NA 0 14.1% 64 7.5% 40 27.2% 92
11.9% 42 NA 0 96.2% 78 88.5% 78
72.4% 58 83.8% 80
rs1466112 TSCAF 15 78.373 70969586 forward MIT
AGGAGTAAGAGCCCGGCAGAGATAATTCCAAGGAAGACCCACATGATTTCCTCTCCTCCATCCCCCTCCCACAAC
ACACCCATCCCTGGGAACCAGTTGG[C/
T]CAGATCTTCCAGCTGAATACTTCACCAGACTCATGCCACAATGCATCACTATCAAGGCGAGGCTGAGCACCTG
GCACAGCCAACTCCCTCTGGAGAGCTG C/T 1,931 0.102 0.002
0.157 0.001 34.5% 194 0.0% 154 0.0% 58 0.0% 76
NA 0 32.8% 64 31.6% 38 37.0% 92
11.9% 42 NA 0 0.0% 76 0.0% 78 0.0% 58
0.0% 76
rs3784789 AB_ASSAYS_ON_DEMAND 15 80.1396 72798369
forward LGD
CAGTGGCTGTCCCCATCCCCCAGAGCATCCAGCTAGGTCCTGTGGCAGCACCAGAATCTCCGGGGGCCAGGGCCC
TGAGTTCCCCCAGGTCTTTTGTGCA[C/
G]TTCCCTTTTCAGTGGGTATTTTTAGCTGGGCGTAAACAGTTACTGAAGGCTCCCACGCCCCATTAGGCAGCAG
AGTTTTGGCAAGGGGGAAGGGCAAGGG C/G 454 0.309 0.340
0.003 0.149 99.0% 196 36.4% 154 98.3% 58 81.2% 80
NA 0 100.0% 66 100.0% 40 97.8% 90
97.6% 42 NA 0 42.3% 78 30.3% 76 98.3% 58
81.2% 80
rs1378940 AB_ASSAYS_ON_DEMAND 15 80.1397 72799311
forward LGD
ATAGCAAATGAACAGTAAAAAGTAAGTTTCTCTTGAACTTGATCTCACTTTCCCTTCTCATCCTAGAGGCAACCT
CTGTTACCAGTTTCCTCTGTCTTTC[G/
T]AAAGATAATCGAGGCATATTTGAGTTTAGGGAGGTGTTGCATTAATACCTCTTTAAAAACACAACTTGTAGTA
TTCCATAGAGAACCTGCACCTGGCTTT G/T extended_map 0.305
0.335 0.003 0.145 1.0% 198 63.0% 154 1.7% 58

18.8% 80 NA 0 0.0% 66 0.0% 40 2.2% 92
2.5% 40 NA 0 57.7% 78 68.4% 76
1.7% 58 18.8% 80
CV1120729 AB_ASSAYS_ON_DEMAND 15 80.1658 73010734
forward LGD
TCTGTATATTGTCAGCCAGGCTTCTTTATCACTGCTGTCACCACCAAAACGATTCTTGCTGGATTCACAGCTGAC
TCGATGCTGTTAGTGTCATGAACGC[A/
G]TTAGTCCCGGTAGTGCCATCCTTTCACATGGGAGCCCTCAGTGGCATTATCACATTTGTCCAATCTCTGCCCC
TGGCTATGGAGACTCCACGCTCTCTGG A/G 824 0.247 0.180
0.030 0.210 92.9% 196 29.3% 150 79.3% 58 82.5% 80
NA 0 98.5% 66 97.4% 38 87.0% 92
80.6% 36 NA 0 32.1% 78 26.4% 72 79.3% 58
82.5% 80
rs4779112 AB_ASSAYS_ON_DEMAND 15 81.9784 76936405
forward LGD
GGTCACAAGGAGGGAAGCGCAGCCCTTTCAAGGCAGGAGAGAAGGCAGCAGGACAAGGGACAGAACTAGAGGGAG
GGTAGGACCTGGCATTTAGGAACCA[A/
G]CATGTGGCTGGGCCTGGGCGTGAGGTTAAGAAGGGAGAGTTGGCCGGGCACGGTGGCTCACGCCTGTAATCAC
AGCACTTTGGGAGGCCGAGGCGGTAGA A/G 1,431 0.224 0.245
0.005 0.276 90.7% 194 28.9% 152 86.2% 58 88.7% 80
NA 0 89.1% 64 100.0% 40 87.8% 90
90.5% 42 NA 0 27.6% 76 30.3% 76 86.2% 58
88.7% 80
rs1036937 AB_ASSAYS_ON_DEMAND 15 82.0117 76952999
forward MIT_and_LGD
CCCCTCCCCGTGCCAGCACGCAGAGTTCCTGGCCTCTCACCGGGGAAAGCTCTGCCCCGTTCCTCCGGAGCCCAG
TGCGCCCCTGGCCAAGTTCTCCCAG[A/
C]GTCCACTCTAGGGCCTGCTAGCACCCTCTCGGGCGGCGCGCCCTCTGCGTACCTAAGGAGTTCACGCACAGTT
CGGCGGCACCGCAGACGGGGACTCCCA A/C extended_map 0.153
0.229 0.000 0.294 81.3% 198 26.9% 156 82.8% 58
88.7% 80 NA 0 81.8% 66 92.5% 40 76.1% 92
81.0% 42 NA 0 26.9% 78 26.9% 78
82.8% 58 88.7% 80
rs4779031 AB_ASSAYS_ON_DEMAND 15 82.6057 77249191
forward LGD
GAGGAAACTGACATGCAAGCAGAAAATCAAAATACAGTGCAACCTCGCTAGAAAGGAGGCCTATAGAGAATGCTG
CAGGAACATAGGAACAAACAATCAG[A/
C]AGACCAGTGCTAGGGTGAGCTGGGCCCAGAAAAGCTGAGCCTGGAAGGAGGGGCAGGAGTAGCTCATCAACAT
GGCATACGAACCAGTAGCAGCAGGGAG A/C 1,991 0.087 0.032
0.036 0.006 64.1% 198 21.8% 156 41.4% 58 30.0% 80
NA 0 66.7% 66 75.0% 40 57.6% 92
78.6% 42 NA 0 24.4% 78 19.2% 78 41.4% 58
30.0% 80
rs1872234 TSCAF 15 85.7277 78805902 reverse MIT
GTGAGGATGGGTTATACTCTGCTGTGGTAATAAAGAACCCGAAGCTGCAGGACTTCTTTCTCATCTAGTTCCCAG
GTCCACCGTGGGTGTGTGGAGGACC[C/

T]TGGGCTGTTATGGGCACCTAAGTACCCAAGCTGGCCCCTCCATCCAGGCCATTGCCAGTCACTGCAGCAGAGG
AGAGGAGCTAAAGAACCGTGTGTTAGT C/T 316 0.232 NA NA
NA 21.8% 78 89.6% 96 NA 0 NA 0
21.8% 78 NA 0 NA 0 NA 0 NA
0 89.6% 96 NA 0 NA 0 NA 0
NA 0
rs980618 AB_ASSAYS_ON_DEMAND 15 86.209 79234028
forward LGD
ATTAAAGTCTTTGAATCCATTTATTCAAAAATCATGAAGCTGCAGAGTTATAATTCTGAAAGAGAGCAAGAAAAA
AGTTGAGGCAGGGCCCACTGGAACT[A/
G]TAACAATGAGTATGGGAGTGAATCAGGCTCAGTTAACACTCTTGCTTGAGAGGTTCAGGGAAGCACTATGTCA
CTCCAAGGTAAACTGAGCCTAGATCCC A/G 1,603 0.111 0.144
0.001 0.184 31.1% 196 78.8% 156 34.5% 58 28.7% 80
NA 0 28.8% 66 20.0% 40 37.8% 90
26.2% 42 NA 0 78.2% 78 79.5% 78 34.5% 58
28.7% 80
rs4238528 AB_ASSAYS_ON_DEMAND 15 86.3242 79335524
forward LGD
GAGCATATGTAGTGTTAAGTGTGAAACGTGCAAAGATAAAAGAAAACAACAACCTGCAAACCCTAAAAAGAAGGA
AAACACACACACAGAGTAGCTGGAA[A/
G]ATACTACCTTAGGCTAGGGAAGTTAGTCTTTTAGAGATGTGCAGAAAACTTTGCTCTAAGTTTCCTGGAGCTC
ATGAATTCTGAGACAAAAGGAGTGACT A/G 704 0.182 0.074
0.064 0.118 17.3% 196 76.4% 148 44.8% 58 36.1% 72
NA 0 18.8% 64 20.0% 40 15.2% 92
28.6% 42 NA 0 80.6% 72 72.4% 76 44.8% 58
36.1% 72
rs6495569 AB_ASSAYS_ON_DEMAND 15 86.3701 79376056
forward LGD
CTCTATCATCCTGATCTACAGCTGTATTATAGACTGGCACTCGCAACCTGTGTATGATGGCAAGTGTGATGGCAA
ACACAACCTCCTGGCTCTGGAGACC[A/
G]CAGTGCTCACATGTGTGTGTTTTTTGTTGTTGTTGTTTTGTTTGTTTGTTTTTTGAGAGGGAGTCTCACTC
TGTCACCCAGACTGGAGTGCAGTGGTG A/G extended_map 0.115
0.053 0.375 0.005 63.5% 192 15.6% 154 0.0% 58
21.8% 78 NA 0 65.2% 66 71.1% 38 59.1% 88
59.5% 42 NA 0 15.4% 78 15.8% 76
0.0% 58 21.8% 78
rs725686 AB_ASSAYS_ON_DEMAND 15 89.3 83769332
forward LGD
GAAGAGCATATCCACTGGACTTGCATTTAGATCTCGAGAAAAGCTTATCAGAGTGATTTTCTACCACCACATTGG
GTTCCTGTTTACTCCAGACTTACAT[G/
T]TTCAGCCTCCGTGAAGACTTGGACTTTGCGCGTAGATTAACTTGCTTCTCTGTTTATGCTAATTAAAACAGAC
CTCAGAAGACGAGCATGCAAACGGAGA G/T 1,332 0.133 0.092
0.013 0.111 99.0% 194 65.6% 154 94.8% 58 96.3% 80
NA 0 100.0% 66 100.0% 40 97.7% 88
100.0% 42 NA 0 69.7% 76 61.5% 78 94.8% 58
96.3% 80

rs1007533 TSCAF 15 92.7015 86195736 forward MIT
CATCCTTTGACCTGCTGATGGAAAACAATACAGGCTTTTAGTCAAGGATGTAACCCTTCTTTAGAAAATACTGGA
CGGCTTCAGTTAGAATTTCGACATA[C/
T]TCTGGATTCCTCCTTTACTACCATGGATTTGGAATAGAAGTTGCTCTAATTTGTATTTCTTCCCTGTTTTTCT
TCTAGATGTGTTTTCTTATCTATTAAC C/T 1,669 0.106 0.000
0.139 0.000 13.0% 322 55.0% 282 53.7% 54 54.3% 70
15.2% 138 11.7% 60 2.8% 36 14.8% 88
2.8% 36 57.1% 156 50.0% 68 55.2% 58 53.7% 54
54.3% 70
rs734780 TSCAF 15 94.7651 87294726 forward MIT
CAACCCTCAGATATTTAAATGAATAAAATTTCCCATCAAATCAGCCTTTCTGGCTTCATGATGGCACTGACCTTC
CTTCCTGCCCAGCAGTGGGTATCAC[C/
T]GCCCTCAATAGATGAAGCAGGTACATGCAGCATACACACTCCCGTCCACCCTGGCCCTGCCATTCCCTAGTGC
CTCTCCCTTGACCAGCTTCATTCATTA C/T 383 0.216 0.488
0.018 0.112 29.1% 282 93.0% 256 14.6% 48 60.8% 74
28.3% 106 25.9% 58 31.6% 38 31.2% 80
26.3% 38 91.8% 110 94.3% 70 93.4% 76 14.6% 48
60.8% 74
rs1269077 AB_ASSAYS_ON_DEMAND 15 96.0041 88190897
reverse MIT
AAGTGATCCTACCTCCTTGACCTCCCAAAGCACTGGATTATAGGCATGAGTCACCACACCTGGCCAAATAAAAGC
TAGCCTACTCAACATTTCTTGTAAT[G/
T]ATCATTGCTCCATACCAGTCAAATGCCACAGATGCCCCGTTTACCTGCCCAATTTCACTCTCCACCTACAGCT
CACCCCCAATGAACTACAGGTGAGAAC G/T 963 0.161 0.148
0.011 0.000 17.7% 198 73.1% 156 27.6% 58 72.5% 80
NA 0 13.6% 66 10.0% 40 23.9% 92
17.5% 40 NA 0 78.2% 78 67.9% 78 27.6% 58
72.5% 80
CV25473175 APPLERA_RESEQUENCING 15 96.2161 88357384
forward LGD
TCTGTCCAGGTTGCTCTTGATGGTGTCGAGGAAGTCCGTGGTGTTCAGGAAGTGCTCGTTCAGCTTCACACTGCA
GAGAGAGCACCACTCACATCAGGGG[C/
T]GGCTCCAGGCCTTGCCAAGGCCATCAGCCAGGCCCTTCCAGGGAACAGCCTGAGCTTGGGCATCAGAACAGCC
ATCTCCTGCCACCCAGACTACAGGCCA C/T 1,320 0.129 0.001
0.222 0.001 27.8% 198 78.8% 156 82.8% 58 82.5% 80
NA 0 34.8% 66 15.0% 40 28.3% 92
7.1% 42 NA 0 80.8% 78 76.9% 78 82.8% 58
82.5% 80
CV1319948 AB_ASSAYS_ON_DEMAND 15 97.7538 89295572
forward LGD
GTGTCTCGACCCTCCCTCCCTGATCCACTCTGCCCGTCAGCAGGATTCCGGTCTACACCCCGCAGAGACTCCGCA
GCGTACGAGGAGAACCCCGCCTTCT[A/
G]CCAGAAAAAGAAGCGACTTCCTAGATCTCCCGGAAGTCCCTTTCGCTCCCAGCGCTTCGCGTACCAGGAAGGG
GACGGCGTCCTGAAAGGGACATTTGAA A/G 637 0.197 0.303
0.003 0.348 94.4% 198 40.8% 152 98.3% 58 100.0% 80
NA 0 90.9% 66 100.0% 40 94.6% 92

95.2% 42 NA 0 38.2% 76 43.4% 76 98.3% 58
100.0% 80
rs7176652 AB_ASSAYS_ON_DEMAND 15 103.9214 91224746
forward LGD
TTTTCTAGGGGCAGGAAATACTGGAGAAACTTAACTGTGCTTCCTCCTGAATAGTATTGAAAAGTGAGGGAAATA
AGAAGGAAATTACTCAAAGGAATAT[A/
G]CTACATCGTTTAAACTGTGTAGAAAATTAGGTGTACCTGAGATGTATAGGGGTATGGCTTCATCATTCTCCCT
TTCCCAAGTGTGATCTTCTTTGTTTCT A/G 1,234 0.09 0.062
0.328 0.218 6.2% 194 39.3% 150 69.0% 58 91.0% 78
NA 0 4.5% 66 8.3% 36 6.5% 92
9.5% 42 NA 0 34.6% 78 44.4% 72 69.0% 58
91.0% 78
rs901967 TSCAF 15 105.9971 91731879 forward MIT

AAACAGCTGTCAAGGGCAGCTATTGGCTTATCTTTCATGGAAAGAGAGACATAATGAATTCTGAATGAAGAGGAA
CCAGAGGCAGAGCAGTGTGTGGTCC[C/
T]GCAAGGCCGCCACACGCAAGCTGGCACTTGGGAAGTACTGAGGACTGTCTCATGTGTACGGGGTCCTGGGCCA
GTCCTTCTGGCCTGGCCATGTTTGAGG C/T 965 0.102 0.027
0.051 0.031 75.8% 178 30.7% 150 50.0% 56 51.2% 80
NA 0 82.3% 62 88.5% 26 67.8% 90
78.9% 38 NA 0 30.6% 72 30.8% 78 50.0% 56
51.2% 80
rs2289009 AB_ASSAYS_ON_DEMAND 15 110.6084 92672265
reverse MIT
TCCTTCTCCACATCACACGAACTGTAAAATTCCTTAACCGAAATATTTTCTCTTCAAGCCTGTATTCCACTTTTC
CATTAAACTCAGGTTTTACCAGTAT[A/
G]CATACTCTATACACAAACGTTTTCCAGAAGAAAGCAGGAGATGAGGGTAACCTGCTTATAAAATGCACAGCTT
TAAAACACTATTCTTTCCTCTCTGTAG A/G 1,473 0.106 0.079
0.013 0.041 19.9% 176 65.1% 146 31.5% 54 41.0% 78
NA 0 11.3% 62 18.8% 32 26.8% 82
10.5% 38 NA 0 61.1% 72 68.9% 74 31.5% 54
41.0% 78
rs716591 TSCAF 15 111.1131 93007028 forward MIT

TAACAGGCCCAAGATCTCTAAGTGATTGGTGCAGTAATTTTATTTCTAGAGTGGTGCAGTACTATCTGATTTTCC
TTCAAGAGGGGAACTGGTTTCTGAG[C/
T]GCAATGCTGCGGTTGGGCCTTGGGCTGAGGTCTTAGCAGGCAAGTTACCAGGAATGGCTCGACATGGTCAAAG
AAAGAAAATAGGGTAAGAACAAACCTA C/T 2,003 0.041 0.028
0.007 0.007 28.7% 174 57.7% 156 37.5% 56 67.9% 78
NA 0 25.0% 60 37.5% 24 28.9% 90
28.9% 38 NA 0 48.7% 78 66.7% 78 37.5% 56
67.9% 78
rs188324 AB_ASSAYS_ON_DEMAND 15 112.0135 93430273
forward LGD
CAAGGATGTACACCAAGGAAAATATAGATTAAGATGTGAATCCAAAGAAAAGAAAGTCACGGATGGAACTTTGAG
AAAATACAATTTTAGATTAGTCATG[A/

G]TAGTAGACATCAGATGCAGGGAGTTAAGTTGCGAGAGGATAACGGAGATGTGGCAGAGTTTAGAAAAACAAGT
CATGCTAGAAGCCTTAGAGTGAAAAGG A/G 214 0.287 0.066
0.140 0.013 3.0% 198 66.9% 154 36.2% 58 53.7% 80
NA 0 1.5% 66 2.5% 40 4.3% 92
9.5% 42 NA 0 66.7% 78 67.1% 76 36.2% 58
53.7% 80
rs748095 AB_ASSAYS_ON_DEMAND 15 112.634 93554196
forward MIT
AGCTAGAAACAGAAGGGAGGGATCTATAATGCTGCACTGTACTTAAGTTTAATATCAAATTAAGTTTTTTGTTTG
TGCCTTTTTCAACCAATGATATACT[G/
T]GAAGACATGCAGTTTCCTAGGGAAAAAATAATTCAAGAACTTCCAAAGTTATGCTTAGATAATGTGTAAAGAA
GGCTAACAAAGAAGAGATATAACTAGA G/T 758 0.194 0.003
0.348 0.023 73.7% 198 12.0% 150 7.1% 56 1.7% 60
NA 0 65.2% 66 80.0% 40 77.2% 92
85.0% 40 NA 0 17.1% 76 6.8% 74 7.1% 56
1.7% 60
rs6598508 AB_ASSAYS_ON_DEMAND 15 124.3869 96750736
forward LGD
CAGAGTTTCTGATTCAGTAGGTCTGGGGTAGAGCCTGAGAATTCCTGTATCCTATACTACATGAGCAGCACAAAG
CTGTGTCCTCTGCAGGGCTCTAAAA[A/
G]TTAAGAGTTGTCAACAAAGGGCTGCCTGGTGGTCTTGACTAAGAGTATTACAGCCCAGGTTAAGGCCAGAATA
CTTTTAGGCAAGACCTCCAGGATTCCT A/G 793 0.125 0.043
0.377 0.001 26.3% 198 76.6% 154 94.8% 58 80.0% 80
NA 0 27.3% 66 27.5% 40 25.0% 92
23.8% 42 NA 0 83.3% 78 69.7% 76 94.8% 58
80.0% 80
rs2272037 APPLERA_RESEQUENCING 15 126.0178 97191517
reverse MIT
GGGAGGTCCACGTCCACCATGTTCCAGCTGTTGGAGCCGCAGGCATCCTGCCCATCATACTCTGTGACATTCTTA
AAGGGTCTGAAAGACAATTAAGTTC[A/
G]GAGAAAGTTCGGGGCTCTGACATCAAAACCCTCAAAAATCTTCCCCAGAGGCCCAGCATGTCACACTTTCTAT
AATGGGAGGTCTAAATAAACAAATAAT A/G 1,715 0.057 0.054
0.258 0.032 22.8% 180 55.8% 156 82.1% 56 76.2% 80
NA 0 14.1% 64 17.9% 28 30.7% 88
25.0% 40 NA 0 51.3% 78 60.3% 78 82.1% 56
76.2% 80
rs713613 AB_ASSAYS_ON_DEMAND 15 128.8799 98005664
forward LGD
CTTTCACTTTTGAGGCAATAGTGCCCCCATCTGCCTGCCTTCCCCCTCATGCCAGAACTCAGTGGCTGCCAGATG
TTAGCATTCACCAAACACACAGCCT[C/
T]AGCCAGCTCTGCAGACACACTCAAAATCCAGTTTACCTGTAATAAAGTTGACAGATATGCCCTCGGCATTTTC
TTTCCCAGAAACACTGTGGGGCATGTA C/T 1,104 0.137 0.000
0.216 0.066 34.7% 196 86.8% 152 87.9% 58 60.3% 78
NA 0 40.9% 66 52.6% 38 22.8% 92
38.1% 42 NA 0 88.2% 76 85.5% 76 87.9% 58
60.3% 78

CV25640375 APPLERA_RESEQUENCING 15 130.5813 98748190
forward LGD
ATTAGAGTCCATTCCTTCTTCAAATATCCCATCTTACTTCCTGAGTGGGCATGTGCATGCAACCTTCAGGAGTGG
AATCCCACAAATTAACATCTCTCTA[G/
T]TACCATGGAGAAGGATTCAAAGTTAAAACTAAGAGGTTTCATTTCTGTAATCTTGGAGGATCTGGGAATCTAG
AGATATTCTCAGAATTTGGGTGTTTTC G/T 2,074 0.04 0.069
0.000 0.005 19.7% 198 1.3% 156 19.0% 58 3.7% 80
NA 0 21.2% 66 7.5% 40 23.9% 92
33.3% 42 NA 0 0.0% 78 2.6% 78 19.0% 58
3.7% 80
rs2411841 AB_ASSAYS_ON_DEMAND 15 130.9922 98927515
forward MIT
GTTGAGTGTATCGACCCAGCACTGGGCCTTCTTGGGCCGTAATCGCCACCTGCCCCGTGCGTGCCACACCTTGAC
TCACGACAGGGTTTAGACCACAGCG[C/
T]TTCTAAACGTAGGACAGCATGCAGTCAAAGCAATGCATCTGACGGAGTTACCCTGCAGGAGATGAAGCAAAAC
AACTTTGATTTCACATTTCCTCTATAA C/T extended_map 0.091
0.075 0.008 0.097 16.8% 190 57.4% 148 25.0% 56
21.1% 76 NA 0 18.8% 64 16.7% 36 15.6% 90
26.2% 42 NA 0 58.6% 70 56.4% 78
25.0% 56 21.1% 76
rs4357923 APPLERA_RESEQUENCING 15 131.764 99264382
forward LGD
GGTGGGTTTCCCCACTACCCTGAGTCAACCCTGACCGTGCAAACCATCTCAGCCTCCAGATGTGGGACTGTGTCT
TTATTCTCACTCTTGGCTCTCAAAT[C/
T]ACCTCTGTGAGGAGACTTTTGCAACTCCTGTTCTATGTTTCTTTTTCAAAATATCTGCACCCTTCCTCATTTT
CTCCTTACTTGCCCCCGCAAGGGGATT C/T 1,563 0.094 0.000
0.135 0.031 80.1% 196 37.8% 156 37.5% 56 58.8% 80
NA 0 81.8% 66 87.5% 40 75.6% 90
85.7% 42 NA 0 42.3% 78 33.3% 78 37.5% 56
58.8% 80
CV1860231 AB_ASSAYS_ON_DEMAND 15 132.2555 99478882
forward LGD
CAAGTGTGCAGGAGGATAGAGGAAAAGAGACACACTAATTTCAATACAAAGGCTTCCCACAACTACAGTCATTCA
AACTACTTCTAAGAATGGAGAAACA[G/
T]AATTCTTCTAAGAATTACCAAAAGCCCCCATATACGGCTGCTCAACAATATCATCATTTGACAAACATCATTA
ATTCAAGTAAAAATCATGTGGATGATT G/T 884 0.151 0.084
0.033 0.084 86.4% 198 34.4% 154 69.0% 58 68.8% 80
NA 0 81.8% 66 97.5% 40 84.8% 92
71.4% 42 NA 0 30.8% 78 38.2% 76 69.0% 58
68.8% 80
rs8032573 AB_ASSAYS_ON_DEMAND 15 132.3532 99521517
forward LGD
ACATGGTTTACTTAGCTCAAGAAATAAGGAAATGAATTCAGATTTATAAGATAGGAGGATCTCATTAAGGTTGGT
AGAGGAACAGTCCGTCTTCATTTAA[A/
G]GCATTAGGAAGAGATCATTCACTGATAATAGTATCCTGAAATCAGATTCCTATATCTCTAGGTAATGCTTCTC
AAACTTTCTTCCCACAGTCCCCTACAG A/G extended_map 0.133

0.038 0.378 0.019 23.7% 198 75.3% 150 93.1% 58
88.5% 78 NA 0 25.8% 66 12.5% 40 27.2% 92
26.3% 38 NA 0 77.0% 74 73.7% 76
93.1% 58 88.5% 78
rs900414 AB_ASSAYS_ON_DEMAND 15 132.5098 99589847
forward LGD
ACCTGGGTCAGATGTTGGACTAGTTGACTAGATAGCACCTCCTCTGGGCCAGGTGTCTCCAGGGAGCAACTGATG
GGACGTCAGAGAGGGGCAGTGAAGT[A/
G]GTCACTGACTGACAGCGGAGAGGGTTACAGGCAGGGAGGAGATTATCTCAGGGGCTCTATGATAATCACAATG
CCCAGGTAAACCTCCTCACAGCTGCTT A/G 350 0.222 0.042
0.510 0.035 94.8% 194 37.7% 154 15.5% 58 17.5% 80
NA 0 92.2% 64 97.5% 40 95.6% 90
97.5% 40 NA 0 35.9% 78 39.5% 76 15.5% 58
17.5% 80
rs1011160 AB_ASSAYS_ON_DEMAND 15 133.0271 99815619
forward LGD
AAATAATAACAGTCAGGTCCAGGGCCTGCCTTGCAGTATGTGGAGAAGCAACGGGCCCTGGCCACTGATTCCTGA
AGCCAGGGTGGTGTCTTGTACGGAC[A/
G]CTTCATTATCCCTGTCCCTGCCTCCCACTTCCTAAAGCTCCCTCTAGCATCCCACCCTCTGCAGTGTTCAAAG
GTCGAATAGCCGCTGAAAGCTTTTGAA A/G 1,837 0.064 0.046
0.260 0.003 61.1% 190 24.7% 154 5.4% 56 18.8% 80
NA 0 61.3% 62 67.5% 40 58.0% 88
73.8% 42 NA 0 19.2% 78 30.3% 76 5.4% 56
18.8% 80
rs1013358 TSCAF 16 1.14 68954 forward MIT
GGAGACCTTGCCTTTGCCCCACTTGCTCGTTATCCAGCCTGGGCCATGAAGCAGAGGACAGTTAGGGACCCTGAG
CACGCGGTGGTCACCCCGGTGCTCA[C/
T]CCCTCCCTGTGTGTCCGACCTTGGCCCTGCTAAGATCCTGTGTTTTGAATTCTGGCAAGGGTTGGATGAAAGG
GCAGGGCTCCAGAAACCAGCTCAGACG C/T 250 0.264 0.022
0.249 0.062 18.0% 300 88.6% 264 75.9% 58 64.1% 78
17.3% 110 10.9% 64 11.1% 36 26.7% 90
11.9% 42 87.5% 112 91.0% 78 87.8% 74 75.9% 58
64.1% 78
rs926694 TSCAF 16 1.9992 467962 forward MIT
CCACCAGTGACACTCGCACCCTGCAGTCCTTGTTTCTGTGCTTTGAAAAGCACCTTCCTGGGTTGTCTTTCTTGG
TTCCATGAGGTGGCCACCTTGTGAG[A/
G]CGAGAATTTATAACCCCCGTTTGCGGCAGGGCTCCAGGTGGTTGAGTCACACGTCTGAGGTCACACGGCTTTT
AATAAAGGGGCCAAAGATGGAACTGCG A/G 1,821 0.105 0.049
0.027 0.107 9.0% 332 48.1% 310 22.4% 58 12.5% 80
9.6% 136 3.1% 64 2.5% 40 15.2% 92
31.0% 42 51.3% 156 43.6% 78 46.1% 76 22.4% 58
12.5% 80
CV2782745 AB_ASSAYS_ON_DEMAND 16 2.8586 764099 forward LGD

GAGCCACCGTGCCCGGCCCAGGCCCCCTCTTTGACCCCTTCCCCTCCACTTCTGACCTTGGTCAGACCTTGGCTT
TCCCTGAGTTCTAACCAAGAACTTG[G/

T]CCAAACTACTTCTCTGAAGTCAGCCAGGCCCGAGGGAAAAGCTGGACCGGTGAGGTGCAGGGTCGCAGGCCTC
AGTGGCCATCCTGACCTGTGCTGAGCC G/T 553 0.236 0.005
0.245 0.002 6.1% 198 66.7% 156 58.6% 58 61.3% 80
NA 0 4.5% 66 0.0% 40 9.8% 92
9.5% 42 NA 0 67.9% 78 65.4% 78 58.6% 58
61.3% 80
rs197070 TSCAF 16 3.7978 1087709 reverse MIT
ACCCTTCCCGGGCCGTTCACCCACCCCTCAGCCTCCCTCCACCCTGCTCTGTGCGTGGGGAGGCTCTGGGACCTG
CCCTCAAGGGGGACTGTCAGGAACA[C/
T]GCCTCTCTTTTTAGGGGGCAGTTCTGCTGGCGTCGGGGGGCACTGAGGGGCACAGGGTTCCCTGTGTCTAGGC
CTCAGGGACGCTCTGGATACTTCTGAG C/T 795 0.22 0.102
0.062 0.006 9.6% 332 70.6% 306 32.8% 58 62.5% 80
7.4% 136 14.1% 64 15.0% 40 7.6% 92
21.4% 42 68.8% 154 75.0% 76 69.7% 76 32.8% 58
62.5% 80
rs7186219 AB_ASSAYS_ON_DEMAND 16 3.987 1152890 forward LGD

ACCATCCGCCAGGGCTGTGGCGTGAAGGCCGAGGGAGTATGAGCAGGGGGTGGGATAGTCCCAGGTGGCTGGAAA
CAGCTGTGGTCAGGTGGGCGAGCAG[A/
T]GGTCAGTGGCCCCAGGTCCCTGGAACGCCTCTTCTCACGGCCACTCCACGGGTGCCTGGCCCTGCGGCCACGC
GGAGCTATCCTTGGCTCCAGCCTCAAA A/T extended_map 0.21
0.008 0.246 0.000 71.2% 198 7.7% 156 13.8% 58
7.5% 80 NA 0 78.8% 66 67.5% 40 67.4% 92
66.7% 42 NA 0 9.0% 78 6.4% 78
13.8% 58 7.5% 80
rs932391 TSCAF 16 5.0259 1510858 forward MIT
TCCTCGGTGATGCTCATGTTCTGCCCCAGGCACAGCTGCAGGGCTTCCTGATACTGCAAAGGTGCAGAAATGGGA
CGGGGCTGCCGAGGGGGCCGGGAAC[C/
T]GAAGTGCGCCCCTCATCTGCCACCGCTTCAGAGGAAACCAGGCCCCTCGGCTCAGCGGCGGCTTCTGTCTAGC
TGGGGTGGGTATGGAGGGGACAAGGAT C/T 1,129 0.184 NA NA
NA 16.1% 112 75.3% 150 NA 0 NA 0
16.1% 112 NA 0 NA 0 NA 0 NA
0 75.3% 150 NA 0 NA 0 NA 0
NA 0
rs403609 TSCAF 16 6.3132 1954425 reverse MIT
GGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAGGCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAG
GTAGGTATCAGCCACGCTCGGGGTC[C/
G]GGCCCCTGGGCGGCGCCGGAGAGCGGTCCTGGTCACTGGCGCCTTTTCTCCCTTTAGTGGATGCCCGTCACCA
AGTTGGGCCGCTTGGTCAAGGACATGA C/G extended_map 0.173
0.038 0.086 0.001 94.5% 310 45.7% 302 69.0% 58
41.9% 74 93.9% 132 92.9% 56 100.0% 38 94.0% 84
92.5% 40 46.8% 156 47.1% 68 42.3% 78
69.0% 58 41.9% 74
CV25625889 APPLERA_RESEQUENCING 16 6.6362 2065712 forward LGD

CCTTCTCTCCTCTGCAGCACCCCATCGCTGCCGTGGGCAGAGCAGCCGTGTTGGCCTTCAGAGGCGCTGCACGGG

ACCCCGGCTCCCCTGACCACCCTCT[C/
T]CATTACCGCAGCTCTGGCCAGGCTGCCGCACCTCTACAGGAACTTTGCCGCGGAGCAGTATGCCAGTGTGTTC
GCCATCTCCCTGCCGTACACCAACCCC C/T 1,478 0.152 0.003
0.286 0.022 61.1% 198 7.7% 156 3.6% 56 0.0% 80
NA 0 66.7% 66 57.5% 40 58.7% 92
57.1% 42 NA 0 7.7% 78 7.7% 78 3.6% 56
0.0% 80
rs224241 AB_ASSAYS_ON_DEMAND 16 9.5102 3317321 reverse MIT

GAAGATGCCCTCTACAGGACAGAAAGAGAAATACCACCTGATGTTGGCTGGGATATGGGCACTGTCTTTGTTCCA
AAGAACCAAAGCTTTTCTTGGCAAA[C/
T]GGCCTGTCAGTCATTTCAGTTTATCTCAACTGCATTTTTAAAATTTCAGTTTCTGCTCTGGAGCTTCAGAGGA
ATTGAGACATGAGACAATTATGCCCTA C/T 2,078 0.049 0.041
0.197 0.083 94.7% 322 73.3% 300 50.0% 56 97.5% 80
97.0% 132 95.3% 64 90.0% 40 93.0% 86
92.9% 42 75.7% 152 73.6% 72 68.4% 76 50.0% 56
97.5% 80
rs2008344 AB_ASSAYS_ON_DEMAND 16 9.83 3741847 forward LGD

TCTTCCCGCCTTGGCCTTACAAAGAGCTGGGATGACAGGCGTGAGCCACCATGCCCAGCTGGCAGATGCCTGCTG
ACAGCACTTCCCACATTCGCCTCAC[A/
G]GGTGACACCTCGCATCAACCTACCAAACTGAAACCTGTCTCGACCCTCGCAGCCCCTGCAGAAGCCCCCGATG
GGCCACACTTCTTTGCTCTTGACAGTC A/G extended_map 0.161
0.068 0.059 0.047 25.5% 196 82.2% 152 53.6% 56
59.0% 78 NA 0 27.3% 66 12.5% 40 30.0% 90
42.9% 42 NA 0 82.9% 76 81.6% 76
53.6% 56 59.0% 78
rs879620 TSCAF 16 10.3633 4016014 reverse MIT
GGAATAGAAGAAGCCAACGAACTCACCAAGCTCAACGTTTCAAAGAGTGTGTGAGGCGGCGCCCACCCGCTGCCC
GAGGTGCTCTGTTTGTCGAAACACA[A/
G]TAATATTTGTATTTGGCTGTTGTGCTTTCCAAGCGCCACAGTTGCCCTCCCCGGACGTGGTGTTATGTGGTCA
TTTCAGCCCTAACTTCTGTGTGGATCA A/G 1,350 0.129 0.118
0.007 0.087 87.1% 326 40.3% 298 80.4% 56 75.0% 80
89.6% 134 93.5% 62 84.2% 38 80.4% 92
85.7% 42 40.4% 146 34.2% 76 46.1% 76 80.4% 56
75.0% 80
rs736836 TSCAF 16 10.7653 4285371 forward MIT
AGACTTGAGCAAAGTGCCCATCTGTGCTGCGAGTCACCAGCCTCCACTGCAATGAGCTGCAGCTCCCCCCATGAC
CAGTGTCTTGGTAGCAGGGACAGGG[A/
G]TCGGAGCAGGGGCCCAGCCTGAGTAGGGAAGGGAGACCCAAGAGGGAATGAAGGAGCCAAATAGGGCGGAGGC
AGACTCTGAAGATCAACTTTTAGCTCT A/G 1,775 0.099 NA NA
NA 26.9% 130 72.0% 150 NA 0 NA 0
26.9% 130 NA 0 NA 0 NA 0 NA
0 72.0% 150 NA 0 NA 0 NA 0
NA 0
rs4786487 AB_ASSAYS_ON_DEMAND 16 11.0292 4440690 forward LGD

TTTTTTTTTTTAACCTTTCCTATGGTGCTGAAGGACCTACTTTTGAAGACGGCCACAAGGAGTAAGAGGGAACAC
TTGTAGAAGGCTCAGGATTGTGTCT[C/
G]ACACGTGTCAAGTGTGCATGTCTCACAGCTGATAGCAGGGTACCGCCAGACTGTAAGTGAGGGAAGACCTAGC
GTCATTCCTGCTAGGCTGGGAGGGTTG C/G 976 0.165 0.001
0.270 0.006 82.7% 196 26.6% 154 22.4% 58 35.0% 80
NA 0 86.4% 66 77.5% 40 82.2% 90
92.9% 42 NA 0 20.5% 78 32.9% 76 22.4% 58
35.0% 80
rs4238850 AB_ASSAYS_ON_DEMAND 16 11.359 4615666 forward LGD

TCAGCACCATCCAAGCCCTGAATGTGGCCCAGTCACCCTGGGCAGAAAAAAGACCTCAGCCACTTTCCCCACAGC
TCTCTCTCCTGCCCCTTCTTCCCCA[C/
G]GACAGGAGTCCAGAGCATGTCCCCTACATGTGAGACAGCAGGTGGGTCTTGGGTGAGAAACCTCTCACTGCAT
ATCACACAGAGGGGGAGGTTGTAGTAA C/G 807 0.172 0.014
0.364 0.000 83.2% 184 26.0% 154 13.8% 58 23.7% 80
NA 0 84.5% 58 91.7% 36 78.9% 90
82.5% 40 NA 0 25.6% 78 26.3% 76 13.8% 58
23.7% 80
rs741694 TSCAF 16 11.6986 4795847 forward MIT
CCACAGGGAGAAAGGCAAGCTGCAGTGAAGCTGGGAGAGGCAGAGGTGGAGGCAGGGCCCCAGGGTCCCGTAAGG
CCCCTCTATATACCTGCCCTCCCCA[C/
G]ACTTTGGTTGCTCCGCACTTGAGGAATCTGAGAACCAGTGAATCCCTTTTCACCTGACCAGCAGTGGGTTTCT
GTGTCTGGAAACCAAAAGTACCTAACA C/G 274 0.26 0.004
0.399 0.007 3.0% 296 62.5% 264 70.4% 54 52.9% 70
1.0% 100 1.5% 66 2.5% 40 6.7% 90
2.4% 42 68.5% 124 63.6% 66 51.4% 74 70.4% 54
52.9% 70
rs733631 TSCAF 16 11.9634 4936384 reverse MIT
CCCTAGAACTCTACAACTAACATGAACTGGCACTGAGGGAGTCCCTTGGGGACCACAGGACAGCCACTCTGACCA
GGTGGGGACAGGCCCTACATGTGCT[A/
G]CCAGAGCCTGGCTTTAACCTTGTCTTGTCTTCTCCATCACAGCAGCCGGAAGTAGAAGTGACCCATGAGACCC
TGCAAAGGAATAGGCCGGACTCTGGAG A/G 2,025 0.073 0.001
0.116 0.000 72.2% 324 99.3% 300 100.0% 58 100.0% 80
80.3% 132 67.2% 64 60.5% 38 68.9% 90
78.6% 42 100.0% 146 97.4% 78 100.0% 76 100.0% 58
100.0% 80
rs1008574 TSCAF 16 13.541 5773395 reverse MIT
GATCCCGTTGTGATTCTCCCATGTTACAGATGCATACACTCAAGTAGCAGGAAGGGTGGTCCAGTCATTCAGCAT
GGATGACTCTGAGGTAAAAGGAAGA[G/
T]AATGGCAAACCTGCATCACTTGTGAATTAGGCTGCTGGAGATTAGGAAAGCAGTTTGTGATGGATTTGTGGCA
CCACCACAACTGAGAGCCTTATGTGCC G/T 1,733 0.113 0.166
0.000 0.318 27.7% 328 75.5% 294 27.6% 58 11.3% 80
28.0% 132 24.2% 66 26.3% 38 30.4% 92
26.2% 42 73.6% 144 76.3% 76 78.4% 74 27.6% 58
11.3% 80

rs716508 TSCAF 16 16.1556 6337206 forward MIT
ATAATCCTAAATAATATTATTTATTTCTATTCCTTCTCTATCTCCCTGCACTAGAATGCAACATCTGTAAGAACA
AGGATTACATTTTTCCCATACATGG[C/
T]AATATTTGCTCAGCAACTATATAGTGGTAGAGTTGACTTGAAGGATATATTTAAAGGAATCAATCAAGAGTGA
ATTAGTTGGGGTTTTAGGTGAGTCTGA C/T 1,674 0.101 0.007
0.215 0.054 23.4% 304 67.9% 296 77.8% 54 90.8% 76
28.4% 116 17.2% 64 11.8% 34 25.6% 90
26.2% 42 70.7% 150 66.2% 74 63.9% 72 77.8% 54
90.8% 76
rs1418266 TSCAF 16 16.7771 6476449 reverse MIT
TTGAACCTGCCTTTCTATGTTTGTCTATTGCATAGACAGGGAGAGGGAAAGAGGGACAGAACGAAGGAAGGAAGG
GAGGAGGGATGGAGGGAGGGAAAGA[C/
G]AGAAAGAGAGACAGAGAGAGAGAGAATAAGAGAGAGACAATGAGAGGGAGAGAGAGAGAGAGAGAGGGAGA
AAATGAGACAGAGAGACAGAGAAACAG C/G 709 0.138 0.010
0.289 0.027 80.7% 274 29.2% 260 17.6% 34 48.0% 50
86.4% 132 73.9% 46 75.0% 32 76.6% 64
86.7% 30 28.3% 152 33.9% 56 26.9% 52 17.6% 34
48.0% 50
rs887856 TSCAF 16 17.48 6689386 reverse MIT
GCTGAAGGTCAACAGAGCTAGCGCACATGATTTGAAAAAAATTTATCATTCTTATGCATCCTATTGAGTATCCAG
AAATGAGCTGCCAGTTTGCAAGAAA[C/
T]GGCTGCTGCTCTGAGTGAAACGATGGCTAAGCTTTGTAGGTGGCTGGGTGGGGCCACAGGTCTCCTTGGAAAC
TGATACTTTCAGGATTCACTTGAACTC C/T 1,369 0.094 0.016
0.244 0.000 47.4% 312 7.5% 308 0.0% 58 6.2% 80
52.3% 132 37.1% 62 57.9% 38 42.5% 80
66.7% 42 5.3% 152 7.7% 78 11.5% 78 0.0% 58
6.2% 80
rs8060733 AB_ASSAYS_ON_DEMAND 16 19.5699 7632679 forward LGD

AATTACAGAGAAAAACAGTCACAAAGATCTTTGTGCTTTTCCCCCCCTTTGTCTCTTGTTAAATATAGGCATGGG
ATTTCAAAGTCAAAAGCAAAACAAG[A/
T]CAAAAAAGCAACCTCCTTCTTCAAACTGCCTAAAACTTGGCAGTGATCATTACAACGTCTGTAACCACTAATA
ATTCGACCATACCATCTGCAACCGTTA A/T extended_map 0.172
0.157 0.015 0.103 24.7% 198 83.3% 156 37.9% 58
47.4% 78 NA 0 10.6% 66 27.5% 40 33.7% 92
11.9% 42 NA 0 83.3% 78 83.3% 78
37.9% 58 47.4% 78
rs10191990 TSCAF 16 19.5757 7634671 forward MIT
AAACTGTTGATACTATAAATATAGTACACAACTGTCTTGGAAATGGGGCTTACATCAGCATTCTTCTTTGGGCTT
GTTTCACCGGCTTTGAGAACCGTCA[A/
G]CCTAACAGCAACTGCCACAGAAGCAAACTTTGAGACCACTTCAGGGCAGCTGATGTCATTGTTTCATTTAGGG
AATGACACCTGCCAAGATTGCTGTTTG A/G 1,040 0.139 0.001
0.214 0.005 51.2% 332 3.5% 312 3.4% 58 0.0% 80
54.3% 138 59.4% 64 42.1% 38 44.6% 92
35.0% 40 4.5% 156 2.6% 78 2.6% 78 3.4% 58
0.0% 80

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rs40460 TSCAF   16      22.8269 8403392 reverse MIT
GACAGTAAGTGCCAAAACGGGGTTATCCAAAGTCATAACTCCTGGTGGAGTTTGAGCTAAGGGACTGATGGACAA
GGAAGAGAGGGTCAGAAGGACAGAT[A/
G]CAGAATGGCAATGTTGGTTGCTGGACTTGCGGTTTCATCTCCCCCTACCCCTATCCCTTGCTCTCATCCCTGT
CCTTGTACTCTTCAGTCATGTACAGCT     A/G             1,719   0.073   0.006
0.167   0.001   63.7%   328     95.5%   310     100.0%  56      95.0%   80
        72.1%   136     59.7%   62      60.0%   40      55.6%   90
71.4%   42      97.4%   156     94.7%   76      92.3%   78      100.0%  56
        95.0%   80
CV1518803       AB_ASSAYS_ON_DEMAND     16      24.1376 9186584 forward LGD

AGGTGTTTCCTAAAACACTTCAGAAGGGTACCTGGCACTCGACAAGTTTTTAATCCTGGCACTGTGGCCACAAGA
TGGCATTCTCTCTCCATTTCTCCAC[G/
T]GGTGACTTGGAGCAGTTGGGCAATTGTGAACCATCCCGAGATGAGAAGAGGTCATTCCCAGGTGAGAAGAGGG
GCTCTGGAGGAGGAGGGGGTTCACTGA     G/T             904     0.13    0.000
0.190   0.052   14.3%   196     62.3%   154     63.8%   58      86.3%   80
        NA      0       16.7%   66      7.9%    38      15.2%   92
16.7%   42      NA      0       67.9%   78      56.6%   76      63.8%   58
        86.3%   80
rs1112724       TSCAF   16      27.5296 10607021        reverse MIT
ATTGTCATTTTGGGCTGGATAATCCTTTGTTGTAGGGGCCTCCCTGTGCATTGTAGGAAGTTCAGCAACGTGTCT
GGCCTTATCTGCTAGATGCAGTAGC[A/
T]CCCCCACCCCTGGTTATGACAATCCAAAATATCTTCAGACATTGTTAAATGTCCCATGGAGAACAAAATCACC
CTCTGTTGAGGACCGCTGCCCTAGATC     A/T             extended_map    0.1     NA
        NA      NA      19.1%   136     62.8%   156     NA      0       NA
        0       19.1%   136     NA      0       NA      0       NA      0
        NA      0       62.8%   156     NA      0       NA      0       NA
        0       NA      0
rs6498079       APPLERA_RESEQUENCING    16      27.5319 10608138
forward LGD
CTTTTAGCTGGGCGTGGTGGCTCATGCCTATAATCCTGGAACTTTGGGAGAAGGTGGGAAGATCACTTGAGCCCA
GGAGATTGAGACCAGCCCAGGCAAC[A/
G]TAGTAAGACACTGTCTATAAAAACAATAAAAGAAAATTAGCTGGGCGTGGTCGTCATACCTGCAGTCCCAGCT
ACTTAGGAGGCTGAGGCAGGAAGATTG     A/G             extended_map    0.147
0.023   0.362   0.016   62.8%   188     9.6%    146     0.0%    50
1.5%    68      NA      0       63.8%   58      55.3%   38      65.2%   92
        50.0%   42      NA      0       9.2%    76      10.0%   70
0.0%    50      1.5%    68
rs1729059       AB_ASSAYS_ON_DEMAND     16      27.9553 10809517
forward LGD
CACACACACACACACACACACACACACACACACACACACACACACGTTGATTCGTCATTCTGTGAGTCAGCGATCTC
TTGCCATTTGAGGGTCAAATCTGTA[C/
T]TGGCCTAGTGGGCTGGCCAAGAAATCTGCTTTCTCAGATTGTCTGTATCGTTTAGAAGAATCTTTGCTTTTCG
AAGCTGTCAGGAATATTCCTAAACAGC     C/T             701     0.14    0.040
0.381   0.039   89.8%   196     42.2%   154     19.6%   56      20.0%   80
        NA      0       95.5%   66      90.0%   40      85.6%   90
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76.2%	42	NA	0	34.6%	78	50.0%	76	19.6%	56
	20.0%	80
rs8052325	APPLERA_RESEQUENCING	16	28.2609	11104410
forward	LGD
TTAACAGGGTGCGAGAGAAGAAAGTGTTCACCTTGTACGACATTTTTATAAGGTAATTGGCAGAGCACAGATGGA
CAGCAGCATGGTGTGTATTGTAGAA[A/
G]CAGAAGTGTGGTGTCTGGTTCTATGCAGATAAACGTTATATGTCTTCAGTTATTTTTTATGCCTATAATTACT
GAATAAAAATGCTCAATTTCATAGTCC	A/G	extended_map	0.094
0.014	0.239	0.006	54.6%	196	12.2%	156	3.4%	58
18.8%	80	NA	0	54.5%	66	60.0%	40	52.2%	90
	73.8%	42	NA	0	14.1%	78	10.3%	78
3.4%	58	18.8%	80
rs741176	TSCAF	16	28.2649	11112242	reverse	MIT
AGATGCCTTAACATCGCACTATCTCTGGGGGTCCTGAGACCGCTGGGCTACGATTTCACACCAACCTCACCTGCA
CTGGATGTACCGTGCTCACCCCCGA[C/
T]GGTTCACAGAAAACTGGCCCCATTGCCTTACACTCCTGAGCTCAGGGCTTGTCTGTCTGCACTGGTGAAGGCT
ACCTCTCTGCAGCCAACACTGGGTGCC	C/T	1,291	0.104	0.003
0.205	0.012	46.3%	328	90.0%	310	94.6%	56	81.2%	80
	44.0%	134	45.3%	64	44.7%	38	51.1%	92
26.2%	42	90.4%	156	88.5%	78	90.8%	76	94.6%	56
	81.2%	80
rs731388	AB_ASSAYS_ON_DEMAND	16	28.7153	11663750
reverse	MIT
CCAGCCATTCCCAGGCTAAAACTGGAGCGCCTGTTCCATTTTGGAAAATGAAGACTGACATCTCAAGGCGTGTTT
CCTTTTTGGATGTTCCCCTGGATTT[C/
G]TGGAGGGGAAGAGAAGGGCGCGTGGAAGACAGCCAGGGAGGCCCTTGAAACCCCTCGGGAGGCAGAGCCCCTG
GGGCAGGGATTTGGTCTTTTTCACCTC	C/G	1,777	0.092	0.000
0.126	0.098	62.4%	322	19.5%	308	20.7%	58	55.0%	80
	64.4%	132	60.0%	60	65.8%	38	59.8%	92
50.0%	40	16.9%	154	22.4%	76	21.8%	78	20.7%	58
	55.0%	80
rs2217271	TSCAF	16	29.9623	12670919	forward	MIT
TTCCAACTCACCTTTATTTACTAAACAGGTGGGCCAAAGTTTGCTGACCTCTGCACACTATGATCAATCTATTGA
AAGCCAGTCATGGGGATGGGGGTAC[A/
C]TGTTAGATCTGAAAAAATGAGATCTGTCTCTGTTCTTTATAAAGTGGGGGAGGAAGGGCGGTATGGTAAGAAA
ATGAACAAATTCTGTGCTGAAGACTGA	A/C	1,721	0.134	0.064
0.440	0.001	18.3%	322	68.6%	296	93.1%	58	65.4%	78
	24.6%	130	7.6%	66	19.4%	36	16.7%	90
28.6%	42	68.4%	152	68.1%	72	69.4%	72	93.1%	58
	65.4%	78
rs1650999	TSCAF	16	30.1096	12728269	forward	MIT
TCCTCAGATAAAAAGTACTACACAGGAAACATGACAGTTAATTCCTACTGACATATGGTGCAATAAAATTGTGGT
ACAGCAAAGACAAAGAGAAAAACCA[C/
T]AGAAAGAACCGCAGTAAAAACATTATAAAGAAATGATAATCACACAGATAGCAGGAATCTTAACAATAACAGA
ATCAAAGAGTAATGCCTTCTAAATGCT	C/T	extended_map	0.209	NA
	NA	NA	70.6%	126	7.1%	140	NA	0	NA

0 70.6% 126 NA 0 NA 0 NA 0
NA 0 7.1% 140 NA 0 NA 0 NA
0 NA 0
CV2933057 AB_ASSAYS_ON_DEMAND 16 30.133 12737340
forward LGD
GTGTTGAAGCAGGATCTGAACCCAGGAGTCTGTCCCCAGAGTCAGCACTAAAACACCTGCCAAGTAGAGGTAAAG
ACACATCAGGTGAGGGGAATATCAC[A/
G]AGCGAGTGAAGAGAGTCAAGTGTGTCTAGGAAGCAGCAGGCACCAAACGTAAAGGCTCCTGCAGACTGGCACC
TGCTGGGCATCCGAATTTCCTCTTCAG A/G extended_map 0.163
0.085 0.044 0.102 78.6% 196 21.8% 156 55.4% 56
58.8% 80 NA 0 82.8% 64 75.0% 40 77.2% 92
85.7% 42 NA 0 20.5% 78 23.1% 78
55.4% 56 58.8% 80
rs2043426 TSCAF 16 30.6287 12930236 reverse MIT
AAGGCCAGTCCAGAATTAAGAGGTGGGGACACAGACTCTACCTCTTGATGGGAGAAGATGCAAAGCCACTTTACA
CAGGGGTGTGGTTAAAGAGAAGGGA[A/
G]CAGTCTGTGTCCATGTGTGCAATCTACCACATCACTGTTGATCCTAATACCTAATTGGCACACAAGAAATACT
TGTGGAATGAGTAAGTGATTCTCCTAA A/G 1,972 0.087 NA NA
NA 31.2% 138 73.7% 156 NA 0 NA 0
31.2% 138 NA 0 NA 0 NA 0 NA
0 73.7% 156 NA 0 NA 0 NA 0
NA 0
rs1002587 TSCAF 16 33.0491 13871962 reverse MIT
ATCCAAGCTCCTAATTAGAGCATTTACCCACAGAGTTCCCTTTGCCGGGGAGGCTCTGAGCCTGGCTTCTCTCTC
ACCTGTTTCTGATGTGTTTCTACAT[C/
G]CTTAGCAGGTTAACATTGCAGCCAACCCAATGTGCACTTCTTTAATAGGATACTTAAGCACATTCCTGTTGCG
GAGAGAACAGCAGCTCTTCTAAGAATC C/G 470 0.319 0.005
0.349 0.339 95.5% 332 25.3% 288 32.1% 56 91.0% 78
99.3% 138 90.6% 64 95.0% 40 93.3% 90
97.5% 40 25.6% 156 17.2% 64 32.4% 68 32.1% 56
91.0% 78
rs2011209 TSCAF 16 33.6817 14118111 reverse MIT
ATTGTTGATAACACTAAAAGGAATAATACCTGGAACACACTTATTTTCTTTCCTCCCAGGAGGAGCTCAGAGTTG
GACTCTTTAGTTTTGAATAACAAGC[A/
G]CTTCATTTGCCATCAGAGTGAGCCAATCTTGCCTTGCCTTAGTTATCTTTAGCATATCCAGAGTGTGGTAGGC
AAAATTTGGGTTTTCAGCGAAGCATTC A/G 1,614 0.14 0.000
0.173 0.127 98.4% 312 62.8% 298 62.5% 56 96.3% 80
98.2% 114 100.0% 66 100.0% 40 96.7% 92
97.6% 42 66.2% 142 66.7% 78 52.6% 78 62.5% 56
96.3% 80
rs1557519 AB_ASSAYS_ON_DEMAND 16 33.9378 14217742
forward LGD
ATCACTGAGGTTATCTGATAATACCACTCAAAAGTACACATCAGCATGATCATGGAAACATAATCTGATCAAAAT
CTCTGTGGTCTGGCTCCCCAAAGTC[C/
T]GTACTCCCTACTTTTTAGCCTTGGGCCTAGTGGTTTAAGGTTCCCACCTTGGTTCACAGGGCCACCCCTTACT
GCCCACATGAGCTATTGTGTGCCTGTC C/T 39 0.394 0.008

0.473 0.107 10.1% 198 93.6% 156 87.9% 58 62.5% 80
NA 0 7.6% 66 7.5% 40 13.0% 92
14.3% 42 NA 0 94.9% 78 92.3% 78 87.9% 58
62.5% 80
rs760023 AB_ASSAYS_ON_DEMAND 16 36.1547 15785494
reverse MIT
GGATCCATTTAGTGGGATCAGGTCCCAGTCAATACCATTGGGGCTCAAATAAGTTCTTAGAACCACAGAGTCTAG
GGCCAGGGTCCCAACTCATAGGTGA[C/
T]GGAGTTCCCTTCAAGCCACAGATTCTGTTTTTTTTGTGTGTGTGTGTGTTTTTTTTTTTTTTTTATCAGAGTCC
CATACCTCACGGGTATTTTCTCAATCA C/T 2,048 0.065 NA NA
NA 25.8% 120 0.6% 156 NA 0 NA 0
25.8% 120 NA 0 NA 0 NA 0 NA
0 0.6% 156 NA 0 NA 0 NA 0
NA 0
rs1428104 TSCAF 16 38.6901 17977578 reverse MIT
TAGTCTGCAACAGGACTAAGTGAATTTTGTGTAGTCCTGGCAAAGTCGTTCTGAGGCATCCATTCATCTGCATGT
GATAAGAAGAAAACAGAATTACTTT[C/
G]TTTTCAACAGCTTGCATTAGATTTCCACTTGGGAAGGAACTGTTTTTATTTGGAAAAATACAGTAGAAGCCTT
CTTATCTGATATAATTAGAAGTAGTAG C/G 1,876 0.079 NA NA
NA 70.7% 116 30.1% 156 NA 0 NA 0
70.7% 116 NA 0 NA 0 NA 0 NA
0 30.1% 156 NA 0 NA 0 NA 0
NA 0
rs739564 TSCAF 16 41.8743 19706790 reverse MIT
AAGGTCAATGTTGTCAAGACAATTGCACAGTCACTTACAGTCATGAGGAAAAATTAATTTGTGGGCAAGACGGTA
TTGAGGGCATACAGTCGTATGGACA[C/
T]AAGTTTTATTTCATCACCTAGCTACCTATCAGACAGTACAGCATTTCCTCCACTTCTCAACTTTCTAAGCATC
AGGCTGGGGACAAGAATGTCAGGTTGC C/T extended_map 0.246 NA
NA NA 16.7% 120 85.5% 124 NA 0 NA
0 16.7% 120 NA 0 NA 0 NA 0
NA 0 85.5% 124 NA 0 NA 0 NA
0 NA 0
rs6497402 AB_ASSAYS_ON_DEMAND 16 41.8804 19735947
reverse LGD
AGAAATTAAAGAGCGAGATTTAGACAGCGAGGGCACCCAGGGTTTATGTAATGTGGGCAAATACACTGAGTCCTT
GATTGTTAAAGGGTGAAAATGCTTA[C/
T]GTTTGTGAGAGCAGAGGGAACAGTTAAGGCAGCCTCTAACAAGGTTTAAAAATATTCTTTTAATCTATAATTA
AAAGGAAAAAGACTAGGTGTCAAGGGT C/T 281 0.246 0.037
0.556 0.000 11.6% 198 78.2% 156 94.8% 58 80.0% 80
NA 0 12.1% 66 20.0% 40 7.6% 92
14.3% 42 NA 0 82.1% 78 74.4% 78 94.8% 58
80.0% 80
rs741719 AB_ASSAYS_ON_DEMAND 16 43.3602 21136122
forward MIT
AGCCTGGACTTTTTCATGTGTAAAATGGACATCCAATCCATCTGAAAGGATCTCACTGGCTTATGACATTCGCAT
TTGAGCAGTCATGGTTAAAAACTTC[C/

T]AGCCAGGGTGATACTTCATCACGTGTGTGTCTTGAGCGCCAGAGACGTTCCAGAGCAGCTGGTTTTAGGCATA
CAGGAGGGGAAACCCTGACACCCTTGG C/T 1,847 0.093 0.033
0.027 0.086 0.0% 324 21.1% 304 5.2% 58 0.0% 78
0.0% 138 0.0% 60 0.0% 36 0.0% 90
2.5% 40 24.4% 156 15.8% 76 19.4% 72 5.2% 58
0.0% 78
rs1559316 APPLERA_RESEQUENCING 16 44.6794 22244518
reverse MIT
CTCGCCCTTCTCGCAGAAGCGCCCACCCTCGTGGTAGCGCACCATGGCCAGATGGACCTGCCACACAGACTACGG
TGTCGGCCTGGCTGTCTGGCGGGCC[A/
G]AAGCCGCACCCAAGACCGCCCAGCCAGCCTGCGGGAGGAAGTGATTAGCGGAGGAGAGGCTGGAGCTGGGGGG
CTCCAGGTTAGTGCAGACAGGGCTCCA A/G 1,294 0.142 0.038
0.392 0.031 65.7% 178 12.7% 150 0.0% 54 1.3% 80
NA 0 74.2% 62 71.4% 28 58.0% 88
57.5% 40 NA 0 12.2% 74 13.2% 76 0.0% 54
1.3% 80
rs24656 TSCAF 16 45.5065 22939451 forward MIT
GCTGCAGAATACAGGCCCCCAGGGGCTGAAGTGGAGCCGGATAATTACCAACAGAACCCTAATAGGTATGGACTC
AGTGGAAACAAGTCAATCAGGAACA[C/
T]GGCATTTATGTCTAAACTATTCCCATCCATGCTCAGGGGCATGAGAGACTGCTAATGAGGGCCACACTTCTGA
GGCTGAGGGCCATGACCATTAGCTCCA C/T 855 0.193 0.037
0.452 0.005 5.8% 310 58.6% 278 80.4% 56 67.1% 76
5.9% 118 3.2% 62 2.6% 38 8.7% 92
16.7% 42 57.0% 128 67.6% 74 52.6% 76 80.4% 56
67.1% 76
G5505a195 RANDOM 16 47.6589 24242254 forward MIT
CTTGGTTCCGAACTGACTCTATCCAAAGGGAGGAGGGTGTGTAATAAATGTTNGCAGGGTACTGTATGGGTCAAC
TACAGTCTCAGCAACATGGGCTGTA[C/
T]GTTTTCAGTGGAAGGAGCCAGGCAGGATGGAAAAGACTAGACCAGANTCAGAGATTCCACACCAGGAAAGGAA
GTTGCAGTAGGAAGGTACCATAGGACC C/T 2,087 0.041 0.002
0.057 0.001 83.2% 334 99.7% 312 100.0% 58 100.0% 76
85.5% 138 71.2% 66 89.5% 38 85.9% 92
85.0% 40 99.4% 156 100.0% 78 100.0% 78 100.0% 58
100.0% 76
G5505a39 RANDOM 16 47.9692 24380642 forward MIT
GAGTAACTGACCTCTAAGGTGCATGGGAGAATGAATAGGAATTGACCAGATGAAAGAAGAGAGGAGAATGTTCTA
GGCAGAGGTAACAGCATACAGAGCA[A/
C]TGTAAAATTGAGGGAAGCAGAGGGGACTCAGGAGCTAAAAGTACTTTAATGTGGCCATTGCATGGAATGCAAA
AGGGGCACAGGATGGCAACNCCTGGGC A/C 1,923 0.075 0.076
0.001 0.083 0.6% 328 20.4% 304 0.0% 58 0.0% 80
0.0% 134 0.0% 66 0.0% 36 2.2% 92
0.0% 42 19.5% 154 20.3% 74 22.4% 76 0.0% 58
0.0% 80
rs1011078 TSCAF 16 48.7081 24860228 reverse MIT
GTGCTCTCCAGGATCCCTCCTTCCTTCCCAGCAGGAATAGGGCTCTCACAAAGGGGAGGAGAACTGGCTTTGATT
CTGGCCTCAGTTCCCTGCCGTTCAC[A/

G]CATGCAGTGAGTCAGCCTGAGTGTGGTGAGATCCTGGTGTTGGGTACCACTTAACCCCACCATCCTTTCTATA
TTAACAGTGATGAGAATCTCTCATATG A/G 532 0.177 0.000
0.239 0.002 95.1% 324 46.3% 298 44.8% 58 51.4% 74
97.1% 136 96.8% 62 97.4% 38 89.8% 88
97.5% 40 44.6% 148 53.9% 76 41.9% 74 44.8% 58
51.4% 74
rs1858880 TSCAF 16 51.6223 26539290 forward MIT
AGAGAATCTTAAAGGAACTGCTCATGTATAACGATGTTTTCCAATGTATAGCTACGAGTTTGATCTATGGAAGAG
AAAAGTCCATTCATCGGGTACAGTA[C/
T]GCACAGTTTGCAACAAAGAGCCTGTGGACCTTCACTAGGGTCTTCTGAGCCAGAAATCAGGGATCAAGTTCCG
TGGAAAGAGAGCCAGGTGTAAGCCAGG C/T 1,753 0.091 NA NA
NA 48.5% 136 8.4% 154 NA 0 NA 0
48.5% 136 NA 0 NA 0 NA 0 NA
0 8.4% 154 NA 0 NA 0 NA 0
NA 0
rs2234898 APPLERA_RESEQUENCING 16 53.4983 27340288
forward MIT
AAGGGAGCTTCTGTGCATCGCCTGAGAGCAGCAGGGATGACTTCCAGGAGGGAAGGGAGGGCATTGTGGCCCGGC
TAACAGAGAGCCTGTTCCTGGACCT[G/
T]CTCGGAGAGGAGAATGGGGGCTTTTGCCAGCAGGACATGGGGGAGTCATGCCTTCTTCCACCTTCGGGAAGTA
CGAGTGCTCACATGCCCTGGGATGAGT G/T 995 0.218 0.011
0.277 0.001 62.8% 196 1.3% 156 5.2% 58 0.0% 80
NA 0 59.1% 66 62.5% 40 65.6% 90
54.8% 42 NA 0 2.6% 78 0.0% 78 5.2% 58
0.0% 80
rs232086 AB_ASSAYS_ON_DEMAND 16 53.5918 27503569
forward MIT
AAGTCAAGCACACAGGCTATAAGCAATCTTTTCTTGTACACCTTTTGGGTTTCCTTGGAATTAATAACTGCACTT
TTTGCCATTTGCTTGGTTTTCTATG[A/
T]GCATGTCACTAACTCTAAGGATTCTTTATTTTTCAGTTTCTTCTGCTCCCTACTTTATTTCAGTATCCTATGT
TTGTTTCTTATGAGTTTTCCTGAAATA A/T 2,144 0.062 0.011
0.161 0.050 69.6% 326 34.2% 310 22.4% 58 11.5% 78
72.0% 132 71.9% 64 76.3% 38 62.0% 92
66.7% 42 30.1% 156 38.2% 76 38.5% 78 22.4% 58
11.5% 78
rs81118 TSCAF 16 53.9001 28042067 reverse MIT
TTCTGCTGTTTGGGATCTCAGGTGGGTGCAGTGGGCTGTCTGGGGTACCCTGTTGCCACTCTTCCTGCAGTTGCA
TGCCATGGTTGGGAGCCCAGATGAC[A/
C]GTTTCATCCTTGGAGGGGAGCTCTTCCCAGATGCTGGAGGTGACACCCAGGAGACAGAAAAACGTTTCAAACC
CTATAACCCAATACTCCAGGAGGGGCG A/C 2,051 0.069 0.114
0.361 0.000 2.7% 334 25.8% 306 65.5% 58 26.9% 78
1.4% 138 1.5% 66 10.5% 38 2.2% 92
2.4% 42 25.3% 154 33.3% 78 18.9% 74 65.5% 58
26.9% 78
CV37072 AB_ASSAYS_ON_DEMAND 16 54.717 28879486 forward LGD

CTTTTGTCATAGGTCAGGAGTTGTAGAATTGTGGAGCACTGGCCAGGTTGGTTGGCTCAGAGTTGATGTCACATG
AGGTCATAAGTCCGTAGCCACAGAA[C/
T]GTTAAACTAGGGCAGATCTTCAAGTGGGATGGTGCTGGAGCCAGGCAGTGTGTGTATGTTTGGGGGCAGAAGG
GGGAGACTTTAGAAGAAGAAATGGCTT C/T 1,667 0.136 0.046
0.360 0.135 2.0% 198 38.5% 156 64.3% 56 3.7% 80
NA 0 1.5% 66 5.0% 40 1.1% 92
2.4% 42 NA 0 37.2% 78 39.7% 78 64.3% 56
3.7% 80
CV11377397 AB_ASSAYS_ON_DEMAND 16 54.8999 29039646
forward LGD
TGAAGCCTTCTGACCTGGGCTGGCACTGCTGGGGGTGAGGACACATTGCCCCATGAGACAGTCCCAGAACACGGC
AGCTGCTGGCTGTGACAATGGTTTC[A/
G]CCATCCTTAGACCAAGGGATGGGACCTGATGACCTGGGAGGACTCTCTTAGTTCTTACCTTTTGTGGTTCTCA
ATAAAACAGAACTTAAAAAATTGTCTA A/G 558 0.25 0.026
0.255 0.108 70.1% 194 2.6% 154 12.1% 58 30.0% 80
NA 0 68.2% 66 77.5% 40 68.2% 88
83.3% 42 NA 0 2.6% 76 2.6% 78 12.1% 58
30.0% 80
rs881929 TSCAF 16 56.8 31115431 forward MIT
GAGACCCTGGCCGGCACCCTTTATGTCTCTGCTTCCCTCTCAGAGGGCTTGACCCAGTGGTTCTGAGCTCTGGCC
CTTCTACTGCCTCTTGCCAGCTCTG[G/
T]GTCTCAGCCTTCCTATCTGTGAGTTAGACACCAGGTAGCTGGAGGGGAAATCCCTCCTCCCATGGCACTTCCC
AGGGGAAAAGGTAGGGGAGTGCCAGGT G/T 1,834 0.123 0.000
0.168 0.249 4.2% 332 41.6% 310 43.1% 58 94.9% 78
3.7% 136 1.6% 64 5.0% 40 6.5% 92
2.4% 42 42.3% 156 38.5% 78 43.4% 76 43.1% 58
94.9% 78
rs888339 TSCAF 16 58.0786 47719065 forward MIT
AAATGTAACAAGATTATCCATCTGCTTTTGTCTAAATAAATTCAGGGTTTTCACAAACGTAGTGAATTTTCAGCT
TGTAATTTGCTGTCTCCGGTGAGCG[C/
T]GGTGCTGAGAAGACCCGTGATGCTCTCTTTGAAGCCCATTTGCGGCATGCCCCAGGCCTGGGACCTCCATTAA
GCACCAGGGCCTCGCCAAGCACCGGTG C/T 1,976 0.11 0.183
0.573 0.060 4.2% 334 38.8% 304 87.5% 56 67.9% 78
2.9% 136 4.5% 66 2.5% 40 6.5% 92
2.5% 40 37.2% 156 40.5% 74 40.5% 74 87.5% 56
67.9% 78
rs8046826 AB_ASSAYS_ON_DEMAND 16 58.1709 47951341
forward LGD
AAGAGTCAGTCAAACATGTCTTTAAATGAAGGCTTTCAGATTGGCCGAGGGGATCTAGGGAGAAAGGAGAAAAAC
TTCTCTAAAGCAGGAAGGGGTCACC[A/
G]GGGACCAATATGATGAGTTTTATGGGTTCTGGTACGACTTTGGAGAGGCTGGTCTTTTAGGGCTGATCATCTC
AATGCAGAAAGACAAAGTGTAATGTTA A/G 173 0.297 0.047
0.649 0.011 93.9% 198 24.4% 156 5.2% 58 14.1% 78
NA 0 95.5% 66 92.5% 40 93.5% 92
95.2% 42 NA 0 23.1% 78 25.6% 78 5.2% 58
14.1% 78

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rs1224  TSCAF   16      58.3294 48350778        forward MIT
GGCGGTCCCTGCCCACGAGGAGCTCACAGTCTAGAAAGGGCAGCAAGACAGTACACAATCAGTGGCAGCAGCACC
AGCCAGAGTGGCAAGTGCTCAAAGC[A/
G]AGACACAAAGTGCTGTGCGGTCACAACATCATGGGGATGCTTCTGGCAGAAGCACTGGAAAGGAGACGAGGAC
TCAGGCTGGGCCTTCCAGGAGGGAAGC     A/G             2,142   0.069   NA      NA
        NA      30.9%   136     68.8%   154     NA      0       NA      0
        30.9%   136     NA      0       NA      0       NA      0       NA
        0       68.8%   154     NA      0       NA      0       NA      0
        NA      0
rs868792        TSCAF   16      58.3563 48418593        forward MIT
CTGTTTTTCAACCTGCATGCGCACTATCACTGTCTACTAGTAGTTTCCATTTCGCCCCTCTGCAGTCATTGGAGG
CCCACCTAACTAAGCTCCACATTCT[C/
T]CTCTACTCTAGCATTTGCAAAAGGCAGTGAATTCACATTTTAAAGGCAAAACACAAGCAAACCACTTGGTGGG
ACACAAGACAGTTCATCTTATCTTATT     C/T             extended_map    0.068   NA
        NA      NA      30.3%   132     68.0%   150     NA      0       NA
        0       30.3%   132     NA      0       NA      0       NA      0
        NA      0       68.0%   150     NA      0       NA      0       NA
        0       NA      0
rs3803665       APPLERA_RESEQUENCING    16      59.0959 49450551
reverse MIT
TCCGCTTGAGCTACTTGAAGAGGCACGAGCAGATCCACAGCGACAAGCTGCCGTTCAAGTGCACCTACTGCAGCC
GCCTCTTCAAGCACAAGAGGAGCCG[C/
T]GACCGGCACATCAAGCTGCATACGGGCGACAAGAAGTATCACTGCCACGAGTGCGAGGCAGCCTTCTCCCGCA
GCGACCACCTCAAGATCCACCTGAAGA     C/T             1,540   0.151   0.005
0.146   0.000   8.6%    186     57.1%   156     48.3%   58      58.8%   80
        NA      0       3.1%    64      5.9%    34      13.6%   88
17.5%   40      NA      0       57.7%   78      56.4%   78      48.3%   58
        58.8%   80
rs4258614       APPLERA_RESEQUENCING    16      60.3457 50480075
forward LGD
GGAGCCGGAGCCTACGGGTTGAAAGCCAAGAGTGGGCAATCAAAGCTGAAACCAGGCCCACGACTTAGGAGCTGG
AGAGCACACAGGGCTGAACACTCGA[C/
G]TTGGTGACCAGGAAACCAGGGAGCAAAGTCTCCAGGGTGCTTGGGCAAGACCCCAGATGGTCTGCAGCAACGC
ACGGGCAACACGGGATGATCAGCGCTA     C/G             1,296   0.155   0.002
0.244   0.001   47.4%   194     0.0%    156     0.0%    58      0.0%    80
        NA      0       47.0%   66      39.5%   38      51.1%   90
54.8%   42      NA      0       0.0%    78      0.0%    78      0.0%    58
        0.0%    80
CV107056        APPLERA_RESEQUENCING    16      62.6501 51455193
forward LGD
TCCCTCTTTCCACCCCTTCAACCTTTTATTTTCTGCAAAGCAATCTAGTGAAAGACCGCCCCATGGAAGGTTTCA
TATACAAGAAATTACTATTTTTATG[C/
T]ACGCTCCCTTAGGGTACACTCAAGCACAATCCATACTTTTGTGGGTATTTTTTTTTTCCTATAATATGTTTGT
AGCTGGAATGTGGAACCAGCTCTGAGA     C/T             522     0.256   0.006
0.461   0.032   16.5%   188     86.2%   152     93.1%   58      68.6%   70
        NA      0       12.9%   62      21.1%   38      17.0%   88
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16.7%	42	NA	0	86.8%	76	85.5%	76	93.1%	58
	68.6%	70
rs4784214	AB_ASSAYS_ON_DEMAND	16	64.338	52265397
forward LGD
TACATACATTTCCCATTTCTTAATAATTTCCGAATAATTACTGTGAAATCCTGGAGGAAAGTGTCACAAGTATCA
GAACACCACACTCCCTTATATCACC[A/
G]GCAGTGTTCTCCTTCGTTGTTCCTACAATATTACGTTCTACTTGCAGGTGTCTTTCTACAGATTGTGTGGATT
TTATGTTATCTGTTCATCCTAATTATC	A/G	extended_map	0.116
0.091	0.010	0.119	93.9%	198	55.1%	156	87.9%	58
91.2%	80	NA	0	95.5%	66	90.0%	40	94.6%	92
	92.9%	42	NA	0	59.0%	78	51.3%	78
87.9%	58	91.2%	80
rs1825730	TSCAF	16	69.3456	54901023	reverse MIT
TCCTCCCTGGGCACACCACAAGATCATATTTCCCAGGCTCACTTGCAGCTAGGCAAGACCATGTGACTAAATTCT
GGCCATTGGAATGTGGGCATTAAGC[A/
G]ATGTGTGTCACTTTCAGGGTTGGCCCATAGAACCTCAATGCAATTCTCCCTGGAGTGGACTCAGGTCCTGGAG
GAGGGCAGGGCCACATGCTGGGGGAGC	A/G	487	0.182	0.015
0.391	0.006	78.2%	298	18.5%	254	7.4%	54	25.6%	78
	82.4%	108	80.6%	62	68.4%	38	75.6%	90
70.0%	40	18.8%	112	15.7%	70	20.8%	72	7.4%	54
	25.6%	78
rs901439	TSCAF	16	69.3782	54907339	reverse MIT
TGGCAGCATTGTACCAAACAGGCCGACACTGGAAACAACATCAATAATAGAACCAATAAATACATTGTCGTGTAC
CCATAAAATGGAGTGCTATACAGCA[A/
G]TGAAAATGACCAAAATATTGATATAGGCAACAACATGAATGACTCACACAAACCTGATGCTCAGTAAAAGAAG
TAAGACATAAATGAATGCATATTGTGT	A/G	extended_map	0.279	NA
	NA	NA	92.1%	76	21.9%	96	NA	0	NA
	0	92.1%	76	NA	0	NA	0	NA	0
	NA	0	21.9%	96	NA	0	NA	0	NA
	0	NA	0
rs30962	TSCAF	16	70.1627	55059307	forward MIT
TCTTTCTCTTCTTCAAAACTGATCACAAGCCAGTTTGGAGCATCAATTTCTGCATCAAGTTTTTTTGGATACAAG
TGGATTTGTTAAGAGTTGTGGGCAC[A/
G]TCAGGTGTCTCTGCTATTTTCTTTCCAAGCCCATGGCTTTATGGCACTGTTCTGCCTGTGTCACTGAATCACA
ATGCATTGTCACAATAAGCTCTACTTT	A/G	1,251	0.13	0.010
0.111	0.023	86.1%	302	38.4%	258	50.0%	58	56.6%	76
	88.6%	114	84.4%	64	79.4%	34	86.7%	90
100.0%	40	38.2%	110	37.8%	74	39.2%	74	50.0%	58
	56.6%	76
rs1362400	AB_ASSAYS_ON_DEMAND	16	70.7606	55350427
forward MIT
GGGAACTTGAAACATGTAACCACCCTGGCTGGCCAGAGGGGCATCACCTTGCTCTCATCTTTTTACTCCTTTAAT
GCTGACCTCTGCCAAATTGAATGAT[A/
G]TATTTTCACATCCTGACAAAAGGAACTGACCATAGCTGATAGAGCCCCACACCTCCTTAAAGAAAATGTTTTG
TGAAAGCTAAGAGATGCTACTTGGGGT	A/G	789	0.165	0.001
0.246	0.032	41.2%	194	95.5%	156	94.8%	58	82.5%	80

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        NA      0       40.9%   66      33.3%   36      44.6%   92
35.0%   40      NA      0       96.2%   78      94.9%   78      94.8%   58
        82.5%   80
rs8049280       AB_ASSAYS_ON_DEMAND     16      72.8002 56715525
forward LGD
ATATTAGATTCATGAGAGGAGACCTCAGAACAAGTGGTCCATTGAGGGTGATAAAAGCAACTCAAACTATTTTCC
CCCTACTTCTGTTGCTTGAGTACTG[C/
T]GTACGTTGCATGCATCCCTTACTGCTGTGTCTGCAATACCCTCTTTCAGGAGAGCACCAGCAATGTTTCTTTT
ATGTAGTGTAAGTGCCCCTTTGAGAAG     C/T             extended_map    0.104
0.006   0.110   0.020   40.5%   190     85.9%   156     79.3%   58
96.2%   78      NA      0       35.9%   64      34.2%   38      46.6%   88
        31.0%   42      NA      0       89.7%   78      82.1%   78
79.3%   58      96.2%   78
rs2133783       AB_ASSAYS_ON_DEMAND     16      72.8667 56748732
forward MIT
TCCAGCAGATATATGCACGACAGTACTACATGCAATAGTGAGTCCTTCCCGCCATGCTGGGTGTGGCCAGGGCTC
CCGGGAATTGAAGGGAATTTTATCC[A/
G]TGTTACCTGTAAAGTTCAGAATGGAGGGATGAGTGTATTTTCATCAGTCTGCAGAGCCCTGCTCTGTTTGGTC
TGTGGGTAGAGTGTAAATGACAGCTGC     A/G             extended_map    0.095
0.000   0.137   0.033   71.4%   196     27.3%   154     27.6%   58
10.0%   80      NA      0       77.3%   66      71.1%   38      67.4%   92
        71.4%   42      NA      0       26.3%   76      28.2%   78
27.6%   58      10.0%   80
rs173537        TSCAF   16      72.8818 56756305        forward MIT
AAATATGGCGTGGGGGCCAGGAGACAGAATGAGGCATAGGTTGGGCGTGGCCCCTCCCCTCTTGGGTCTTGTAGT
CGGCTGTGGGTGGCAAGTACAGCAG[C/
T]GATGGCAGACAGGTGTGATGAGTTCAAGGACAGGGAAATAACATCCACAGCCCCATCCCAGTACTCCTGTGCA
GCAATGGAAGTGTGCCACCGACACAGG     C/T             1,430   0.136   0.000
0.185   0.029   22.1%   308     73.7%   262     72.4%   58      90.0%   80
        15.5%   110     21.2%   66      25.0%   40      29.3%   92
28.6%   42      75.0%   108     71.8%   78      73.7%   76      72.4%   58
        90.0%   80
rs2965779       APPLERA_RESEQUENCING    16      74.515  57595121
forward MIT
GCTGGCAGAGGAGGGGGTCCATCACAGCAAGACAGACCACCAGGGATGATAGAGGTGCAAGCAGAGGGGGTGGGC
AACCAGGTGAGGGCTGGGGCGGCAG[C/
T]GGCATAGGTTAGCTGGGGCCTCCAGGGCCTGTCCCAGAAGAAGACACTTCCCCAGGCAGCATCTGGGGGATGA
AATTACCTGGATCCGGACTTAAGAAAG     C/T             959     0.171   0.099
0.036   0.044   15.3%   176     71.8%   156     34.5%   58      47.4%   78
        NA      0       15.6%   64      19.2%   26      14.0%   86
23.7%   38      NA      0       76.9%   78      66.7%   78      34.5%   58
        47.4%   78
CV25632732      APPLERA_RESEQUENCING    16      76.1702 58487894
forward LGD
GGGAATGTCAAGCCAGGCCACCATGGGGTGTGGCCCTCCTGCTCTGCTGGGCCCCAGGACCTCCCTCTGCCTGGA
GGGAGGATTCCCAGATGAATGCTGG[A/
```

G]CCCAGGTAAGTCCTGGAGAGGTGTTCAGTGCCTTTTCCCTCCACCCCAGGATCCCTGGGGCTGATAAGAAGAG
ATGGGGTAGGGACTGAGGGAGAAGCTC A/G 676 0.166 0.000
0.274 0.000 48.5% 198 99.4% 156 100.0% 58 100.0% 80
NA 0 40.9% 66 67.5% 40 45.7% 92
59.5% 42 NA 0 100.0% 78 98.7% 78 100.0% 58
100.0% 80
rs725131 AB_ASSAYS_ON_DEMAND 16 84.4923 66362029
forward MIT
TTTGTGATGAAGCTGTTGGAGGTAACTGTCGATCAGATTTAAAAGAATGAAATGGACTGAAGCTGAGATGGGCAG
GATCCAAACAGATCTGAATGAACTA[C/
G]GGTGATGGCCAAATTATCCAAGATAGAATGTAAATCACATAAAAGGAGCGACATATACTTCCCATCCCTAAAA
AGGAATGCCCCAAGACGGTGGAGATCT C/G 1,318 0.147 0.157
0.009 0.041 62.7% 260 9.7% 236 51.7% 58 27.8% 72
60.2% 108 54.3% 46 63.3% 30 71.1% 76
76.5% 34 11.6% 112 7.6% 66 8.6% 58 51.7% 58
27.8% 72
rs3843712 AB_ASSAYS_ON_DEMAND 16 84.7068 66710390
forward LGD
CCCTGTTGGCCAGTGGCCAGAGGGTGGGGGAGGGGGCTTATCTTGGGAAGTGGATGAGATCACCCCGAGGCTGGC
TGGTTTAGTACCGGGTAACCTTTTC[C/
T]ACCCTTATGGCTCTCAGAGGCTTCTGTGCTGGCTCCTAAACCTTGGCGCCAACCTCAGGCTGGAGGGGGTTAT
GCTCCCCCTCCCCAGGGTGGAGATGGT C/T 226 0.275 0.057
0.174 0.013 14.8% 196 86.5% 156 62.1% 58 76.2% 80
NA 0 13.6% 66 15.0% 40 15.6% 90
7.1% 42 NA 0 88.5% 78 84.6% 78 62.1% 58
76.2% 80
rs8045523 APPLERA_RESEQUENCING 16 84.7202 66749618
forward LGD
TCACTGGGGGTTGGAGGACAGTTCTTCTGCAAGAAGCTGAAAAGGACAATATTAGCTCAGGCCCTGCTTCAGAGT
GGACCATGCTGAGAAGCTTCTCACT[A/
G]TCAGGTCCAAGAAATGCTCCTTACCCAGACTGGGCAGCTGGCCCCTGGACATGGGGTCACAGAGTTCTGGCTG
CTCCCAGAGGTCAAAGGCTGTGGCTCT A/G extended_map 0.228
0.089 0.090 0.011 18.2% 198 84.4% 154 51.7% 58
74.4% 78 NA 0 19.7% 66 22.5% 40 15.2% 92
19.0% 42 NA 0 84.6% 78 84.2% 76
51.7% 58 74.4% 78
rs3852700 APPLERA_RESEQUENCING 16 84.8219 67048095
forward MIT
TGGACCCAGAGAGAATCTAGGCAGAATGACCCTGGCCCCAGGCCCAGGCACTGAAGTGCCTTATAGGCTTACAGA
GGCCTCAGACTCACTCCCTTCCAGC[C/
T]CACTTTGCAGAACAGGAAACTGAGGCCCAGAGAGAAGCAACAGGCAAAGGGTATAAGGCTGAGTGGAGAGCCA
CTTACCAGGCTGGCACACAATGTGTAC C/T extended_map 0.269
0.008 0.322 0.013 20.7% 198 92.2% 154 86.2% 58
98.8% 80 NA 0 21.2% 66 25.0% 40 18.5% 92
31.0% 42 NA 0 93.4% 76 91.0% 78
86.2% 58 98.8% 80

rs8053264 APPLERA_RESEQUENCING 16 84.83 67200930
forward LGD
AGCTCAAACACATTTGCTGCCACCACAAATTATGCAATTGCGTTTCTTTCCCACGTTTGGGGAAGTCGCAGGGGT
CAGCAACTCTGGAGGGCAATAGATA[C/
T]AAGGTTTGCCCTGGAAGAACGACCTTCGTGATCATGGTGTTTCCCTGACCCCTTCTTGATGTCCTCCCTGGTT
CCAGCCCCCCAGTTCCCCACCTCCTGG C/T extended_map 0.238
0.001 0.370 0.002 32.8% 198 98.1% 154 98.2% 56
100.0% 80 NA 0 42.4% 66 40.0% 40 22.8% 92
35.7% 42 NA 0 98.7% 78 97.4% 76
98.2% 56 100.0% 80

rs8057271 AB_ASSAYS_ON_DEMAND 16 85.5439 69043397
forward LGD
AAGGCAATAAAGGGAAATTAAGTGTGACTTTAGATATGCTGGTACATCAAGAACTCAAATTCAATTTGTGTGAGA
TATGAGGTTCTGGTGACTGTCCTGT[A/
G]ACTCTCCACTGTTATCACAAATCACCCCTCCCAGTTCTTCAGACAAAATAAAAGCATTAAGAGACATGGATTT
CCTGGTTTTAAGTAGAAGAAAATAATA A/G 596 0.235 0.037
0.511 0.014 4.0% 198 61.7% 154 82.8% 58 75.0% 80
NA 0 4.5% 66 2.5% 40 4.3% 92
2.4% 42 NA 0 69.2% 78 53.9% 76 82.8% 58
75.0% 80

rs2270843 AB_ASSAYS_ON_DEMAND 16 86.1731 69749315
forward MIT
GTATGTTTTCTCTCGCCCTCTGGCGTCCTGGCTGGCAGTGCGGACAGCTCAGAGGGAGGGGGAAACCTAGTCTCT
TCCTGGAAGCACGTCAGTGGGATGG[A/
G]GAAGAGCTGTGGCCTCTGCATCCTGGGGCCGAGCCCATCTGTGGGTGGAGCCGGAGGATCCTGCTTTGGGAAG
GGACGTCTCTGCTGACGTCGGCGTGTT A/G 1,109 0.18 0.017
0.122 0.178 1.0% 198 42.9% 154 27.6% 58 2.5% 80
NA 0 0.0% 66 0.0% 40 2.2% 92
2.4% 42 NA 0 38.2% 76 47.4% 78 27.6% 58
2.5% 80

CV2851800 AB_ASSAYS_ON_DEMAND 16 91.1022 74685549
forward LGD
CATCCAAAACAGTGTTGTGGAAATGTTTTGACTACAACTTTCAGTAAGAAATGAATTTACGCTATGATCCGGTAT
ACACCTGTGCACACATGTGCTGCAC[A/
G]CACGTAAACAAGTTACACAAAACATTTTCCTTAGCTATGTATGGTACATTGTGATCATTTTTCTCTTACACCA
TTTCATTTTTTTAAATGCTGGTTTTCC A/G 1,952 0.085 0.002
0.164 0.001 37.8% 196 79.5% 156 84.5% 58 82.5% 80
NA 0 33.3% 66 23.7% 38 46.7% 92
21.4% 42 NA 0 80.8% 78 78.2% 78 84.5% 58
82.5% 80

rs7201936 AB_ASSAYS_ON_DEMAND 16 91.2479 74902405

forward LGD
GTAGGTGCTGCAGAGGTTAAAGAGAGACTGTTGGTTTCCAGTTGGCAGTATGGAAAGTGCCAGTCGTAGTGCACA
GTGCTCGAGAGGTTCAAAGGAAACG[A/
G]TGATGGCACCCGGCAGAGATGGGAGCTGCTGGCCACCCCCTAGTGGACTCTGCATAGCCCATGGCCAGTGTGC
CCTTGCCATGGTCTCGAGGATGGAAAA A/G 1,710 0.107 0.058
0.032 0.017 56.1% 198 11.0% 154 34.5% 58 22.5% 80
NA 0 54.5% 66 52.5% 40 58.7% 92
64.3% 42 NA 0 9.2% 76 12.8% 78 34.5% 58
22.5% 80

CV2847044 APPLERA_RESEQUENCING 16 91.2907 74966280
forward LGD
AGATTGAAGATAGGTGCTGTTAGTATGATCTTTTCTGCCCCTTCTGAAGAGGCAAAGGGACTTTCCCAGGAGGTG
GTATTTTCCCAGGTGGTCTCTAGGG[A/
G]TTTCTAAACAAGTCATTCTAGGAGTTGTAAGGCAGGTCAGACCTTTAATAACAATGCCTTCCTTTTTCCTCTA
TTCCAGTTCTGCCTTCATAGTTCTCTG A/G extended_map 0.063
0.064 0.005 0.029 41.3% 196 9.0% 156 32.8% 58
23.7% 80 NA 0 40.9% 66 45.0% 40 40.0% 90
57.1% 42 NA 0 9.0% 78 9.0% 78
32.8% 58 23.7% 80

rs7201030 APPLERA_RESEQUENCING 16 92.0966 76303319
forward LGD
GCAACTTCAGGCCACTATTAACCGTGCAGAGCACTGTGAACAGGAGTTTACTTATTACTGCAAGAAGTCACGGCT
GGTCAATAAGCAAGGTAAGTAAACC[A/
G]TGGTGTCTGTCTTGTTGCACACATCACATCATGCACTTACTCAACTAGCTCCTGAGAATTTTAAGTCTGCAAA
GTGGTGGTGTCTAGCCACTGAGGGTAT A/G 17 0.445 0.039
0.380 0.028 4.0% 198 89.0% 154 70.7% 58 73.8% 80
NA 0 3.0% 66 2.5% 40 5.4% 92
7.1% 42 NA 0 89.7% 78 88.2% 76 70.7% 58
73.8% 80

rs4374193 AB_ASSAYS_ON_DEMAND 16 92.0984 76303639
forward LGD
ACTCTCTTCCTGGCATTAATTGGATAACTGTACAGCAAAGGCCTCCTTCTGATACTCAGTGAATGCACAGTGTTT
ATCCCTGATAAAGGGCAAGTGACAC[A/
G]TAAGGTTTATTTTATCATGGAAAACAGCTAATAAAAATACGACTTAGTTTTCTGAAAGCGATTATTCTACGTG
CCTCTTTCTCATGGATTGTTGACAGCC A/G extended_map 0.376
0.003 0.566 0.043 3.5% 198 80.1% 156 86.2% 58
57.5% 80 NA 0 1.5% 66 0.0% 40 6.5% 92
7.1% 42 NA 0 75.6% 78 84.6% 78
86.2% 58 57.5% 80

rs4130513 APPLERA_RESEQUENCING 16 95.745 78238277
forward LGD
ATGGATTATCCTTGGTTGTAGTGTTTATGTCCACATCACGTGGATTCCCGAAGGAGCATGGATTATCCTTGGTTG

TAGTGTTTATGTCCACATCACATGG[A/
G]ATATTTTATTTTTCAGGCCTCTTCATGTGCTTGTGTGCAACGCAGCAACTTTTGCTCTACCCTGGAGTCTCAC
CAAAGATGGCCTGGAGACCACCTTTCA A/G 1,769 0.178 0.005
0.223 0.031 33.8% 198 92.2% 154 87.9% 58 77.5% 80
NA 0 31.8% 66 22.5% 40 40.2% 92
33.3% 42 NA 0 94.9% 78 89.5% 76 87.9% 58
77.5% 80

rs2550613 AB_ASSAYS_ON_DEMAND 16 95.9354 78445335
forward MIT
CCACCATACCCAGCCAAAATATTCTTTTCAAAGTGATTAGAAGTAGGAGAAGCTTGCTCTCTTTTTATTGGCACT
TCTGTCTTACATGCACTTTTTGATT[G/
T]AAATTATTCTGTCTTCTATGAAATGACAGTGATTGGAGGTGGTTTATTTTTTTTTAAGTCTGCTTACTCGGAA
AAATAAAACAAAGTTGACAACCTGATT G/T 1,851 0.183 0.001
0.207 0.002 96.4% 192 48.0% 152 51.7% 58 42.3% 78
NA 0 100.0% 64 100.0% 36 92.4% 92
97.5% 40 NA 0 51.4% 74 44.9% 78 51.7% 58
42.3% 78

CV3025462 AB_ASSAYS_ON_DEMAND 16 96.1636 78693527
forward LGD
GATGACCAAGAATTTATAGTCAAAAGTAGATAAAGTAAAAGAGTGAAAACAGAGACATGATACGAGTTGATGATA
CCGTATGCAACTTGTCAAACACTTA[A/
C]ATTTGTGAATAAGAAAACTGGGGTCTATTTGGTGGTTTATTTCAGAGATGTTGGATCAAATCAGACATCAGAA
AAGACACCAGTACCAAACGAAGATATC A/C 1,483 0.215 0.005
0.377 0.009 14.1% 198 77.3% 154 84.5% 58 67.5% 80
NA 0 13.6% 66 17.5% 40 13.0% 92
26.2% 42 NA 0 74.4% 78 80.3% 76 84.5% 58
67.5% 80

rs5029635 AB_ASSAYS_ON_DEMAND 16 99.0056 78966970
forward LGD
TACCAAGTCATTTGGTTTACATCGGGAATGCCTTTTGTCGTTATGTCTAGACCCCTGGAGAACAGCCCACGGCAA
TGCACTTGTGGAAATTCGGACTGTG[A/
G]ATTACACTGAGTAACAATCCTAATAATACCTGCACACAATCAGTTGCCTGTCCAAAAAGCAATAAAGAACCTC
TAGATTTTGTGGTCACCATATTAATCA A/G 1,199 0.166 0.014
0.363 0.002 37.8% 196 93.4% 152 100.0% 58 96.3% 80
NA 0 37.9% 66 32.5% 40 40.0% 90
35.7% 42 NA 0 93.6% 78 93.2% 74 100.0% 58
96.3% 80

rs2287975 APPLERA_RESEQUENCING 16 100.0308 79329594
reverse MIT
ATTTATTCATTCAGTAACATTGTAAAAAATAGCCCTAAATCCCGATGCTGGACCCTCAGTGGACATCTGTTTTCT
GTGATGGGCCCAGCTTGGACCTGTT[C/
T]GAGGGTCTTACTTCTATGCGCTTCTCAGGCAGGGAAGGTCCCAGTGGCTCTGCCTTGCTGGCTTTCGGCCCCA

GAATCGAATAGAGGTGGGAGTGGGGGA C/T 541 0.269 0.011
0.257 0.001 7.1% 184 73.7% 156 62.1% 58 71.3% 80
NA 0 9.4% 64 3.3% 30 6.7% 90
2.5% 40 NA 0 73.1% 78 74.4% 78 62.1% 58
71.3% 80

rs4888047 AB_ASSAYS_ON_DEMAND 16 100.51 79606016
forward LGD
CTGACTTCTGAATCATAGTGTTATAATTAAAAAAAGAAAACACGAAATTGCACTTGGCCATGAAACATAAATTGT
ACCTTTGTAAAGGTCAAATACTAGT[G/
T]GTGATTAACCAGACGAGTCACACTTTATCCTGGTTAAAACAATACTGAATTTTAAAACTACTTATAGGATTCT
ACACACCACCCGCCCCCACCCAACACT G/T 121 0.331 0.011
0.546 0.000 97.4% 196 28.2% 156 16.7% 54 30.0% 80
NA 0 100.0% 66 95.0% 40 96.7% 90
100.0% 42 NA 0 28.2% 78 28.2% 78 16.7% 54
30.0% 80

rs6564771 APPLERA_RESEQUENCING 16 102.2834 80421316
forward LGD
TTTTGCGTTTTTGTGGTGTTTAGGACTTTCTTTGAAAGCAGTGACGCTACCCTAGAGTATCCATCTCTCCTGTGA
GGTTTCTCTGCCTGGAGATGATGGA[C/
G]AATTTGTAATAATGCTGACTGTCTCCCTCTGATTGAAGCTGTCAATACTGAGAAAAGGCATTTGTTAAATTGC
AAAGGGTCTTTTGCTTATTCCCTGTGC C/G 1,406 0.183 0.061
0.076 0.001 84.7% 196 26.3% 156 55.2% 58 30.0% 80
NA 0 81.8% 66 94.7% 38 82.6% 92
73.8% 42 NA 0 23.1% 78 29.5% 78 55.2% 58
30.0% 80

rs1469126 TSCAF 16 103.3384 80809420 forward MIT

TCTAGTATTACAAAAAGCACAACATAAATCTAAAGGGCTATACTGGCAAAATCCTCAATAACAAGACTGAAATGT
TATTCCACAGAGTCTCTTTCTCTCC[A/
G]CTGTGCCTCTCTGTTGCCAGACCCTCTCCCCTTTTCTGTCTCTGACTATAACTGACCATATACAAATTGAAAT
ATTCTACTTTAACACAAATAATTAGTT A/G 2,002 0.091 NA NA
NA 65.8% 114 22.3% 112 NA 0 NA 0
65.8% 114 NA 0 NA 0 NA 0 NA
0 22.3% 112 NA 0 NA 0 NA 0
NA 0
CV490881 AB_ASSAYS_ON_DEMAND 16 106.3204 81810962
forward LGD
GGCTAATGCAAAAGCTTCTTTATGACAGAAAAGACTCCAAACACGTTTTCCTAAAAACAATCACTACCATCACCT
CATACTGATGTTGCAATTTATATTA[A/
G]AAGTACTTTCACCACATCTTGCTTTATGCTCCCAGTGAACCCTATGGGGTGGGTGGGTTTATACAAAGGGCAA
ATGCAGTCAGTCCCAGCTCCCAAGTGA A/G 490 0.257 0.001
0.439 0.005 29.8% 198 98.0% 152 100.0% 58 95.0% 80
NA 0 27.3% 66 22.5% 40 34.8% 92

35.7% 42 NA 0 100.0% 76 96.1% 76 100.0% 58
95.0% 80
rs902542 TSCAF 16 107.1078 82039551 forward MIT

TATGTTGAAAACTGAAACAATGTGTTTTAAAATAACATTCATTGTAAGGCCTTTCAATTCAGAATTGAGCCAGTG
TTTTGTAATATATAGGTACACAGCA[A/
G]AACTGGATCTTCAAAGCCTTCAAATAGGCTTTATTGAATTGATACTGTGTTTGATTCTGGTCTCAGCCCTTGG
CTTGTGTTGAGACCTCCTTTGAGACCC A/G 219 0.277 NA NA
NA 13.8% 138 85.7% 154 NA 0 NA 0
13.8% 138 NA 0 NA 0 NA 0 NA
0 85.7% 154 NA 0 NA 0 NA 0
NA 0
rs925331 TSCAF 16 113.7925 83791795 reverse MIT

CACAGCCCACACACACCCCCACTCTGCCAGCCAGGACTGAAGCTCACTTGGTGTTGTCAGAGTCAATCGTGTGAA
AGAGATCCTCCAGTTCTTTCTCATT[A/
G]AGGACGCCATCTGCAAAGAAGAGCTGGAATTCCTCCAAGGACAGCTTCCCATCATCTGCAAGGAAGGAAGCAG
AGAAAGGAGCTGGTGTCTGCAGAGATA A/G 151 0.312 0.028
0.304 0.007 81.6% 190 5.6% 216 14.3% 14 0.0% 46
77.7% 112 83.3% 30 100.0% 14 85.3% 34
81.8% 22 9.8% 112 2.0% 50 0.0% 54 14.3% 14
0.0% 46
rs3764278 APPLERA_RESEQUENCING 16 118.2 84913563
forward MIT
TGGAGGGGGGCTGGTGTTGGCAAGCAGCCGAGTGTCATAATGCCCATAAACTCCTTGCATCTTGGCTCTAAAATC
CTGCCGGGGAGAGACCAGGGTGGGT[C/
G]GGATCCGATGGGAAAACACAGCGTGGGTTGGGGGAGTGGGATGGAAAGACGGTGGGGACGAGAAGGCCCGAGA
CAGCTAATGCTCATGGAACTCCACGGT C/G 456 0.266 0.003
0.331 0.012 14.7% 184 85.3% 156 81.0% 58 75.0% 80
NA 0 14.1% 64 10.0% 30 16.7% 90
10.0% 40 NA 0 78.2% 78 92.3% 78 81.0% 58
75.0% 80
rs900750 TSCAF 16 119.091 85174069 reverse MIT
ATGCAGGTGTGTGTGTGTGTGTCACGGGTTTCTGTGTGTGTATCTGTGTGTGTGCTGGGTCTGCCCATGTGTCTG
CGTATGTGTGTGTGTGTCTGACTTA[C/
T]GCGTGCACCCGTGCCTATGCCATGTCTGTGAGCTGTGTCTCCGAGTGCCTGCTTTCGTCTGTGTGTTTGCGTG
TATGTACTGTGTCTGTGTCTGTCTCGT C/T 1,801 0.067 0.020
0.029 0.020 79.9% 294 44.9% 254 62.1% 58 61.8% 76
79.4% 102 79.7% 64 84.2% 38 78.9% 90
66.7% 42 36.7% 98 51.3% 78 48.7% 78 62.1% 58
61.8% 76
rs276982 TSCAF 16 121.8562 85982481 reverse MIT

GTGCTTGTTTTAATTATCTATTGCTTCAGGACAAACCGCCCCCCAAAAAAAGTGGCTTAAGTAAAAAATAACTAG
TTCTCATGATTGAGTGGGGTGATGA[C/
G]GTTCAGCTGGACAGTTTTACTCCCTGAGATGTCAGCTGGGTTCTGTGGTCATCTGAAGGTTCATCTTGACTGG

ACATCCCTGGTGACTTGCTCACACACT C/G 773 0.227 0.002
0.402 0.007 33.0% 294 97.0% 230 100.0% 50 93.1% 72
27.7% 112 29.0% 62 23.7% 38 47.6% 82
40.0% 40 96.4% 112 96.4% 56 98.4% 62 100.0% 50
93.1% 72
rs4451955 AB_ASSAYS_ON_DEMAND 16 124.4442 86706648
forward LGD
ATTTTGGGTGGCGGCTGTCCCTGTTTTCTGTTTTCCCTTTCCACGGCTTGGCATTTATTCTACGTGGGAGAAGCA
TGGGGTGCAGAGCGGTGGCACTGGG[A/
G]CTGCGTGCCGATCCCTGAGGCCTGTTCCCATGAGTAAACCAGCTCTTTTGGCCCTAGAGCCCAGCTTCCTGGG
GAATATCCCAGAACAGTGACTGCAAGG A/G 331 0.241 0.120
0.052 0.025 98.5% 196 44.9% 156 84.5% 58 63.7% 80
NA 0 100.0% 66 100.0% 40 96.7% 90
97.6% 42 NA 0 44.9% 78 44.9% 78 84.5% 58
63.7% 80
rs876985 TSCAF 16 127.1319 87663758 reverse MIT

GTGGTCGGGAGCCCTTGCCTCCTCCGCGTCTTGGGGGAGTCATGGCTGCCCCTAGGCTGGGGCATGGGGACACGC
AGGCTTAGGTGTCACATGAGGTTCT[A/
G]CAGTTAGTCCCAGCCTTTTCGAAAGGGAGACAGTACTCATGAGGGTTCAGATCTGACCCACCGTCCCATGAGT
CCACTCGCAGGCTGTTGCCTAAGGAGA A/G 864 0.177 0.016
0.145 0.002 86.3% 300 29.8% 258 44.2% 52 24.4% 78
87.3% 110 79.7% 64 89.5% 38 88.6% 88
85.0% 40 23.1% 108 32.9% 76 36.5% 74 44.2% 52
24.4% 78
rs889427 AB_ASSAYS_ON_DEMAND 16 129.2134 88683661
forward LGD
GGCTGGCCGGGACAAGGAGCAGTGAGGAGGAGTGGCAAAGGCTGAGGGGCGTGCATCACGAGCCTCTTTCCAAAG
AGGTCATGTTGGTTCTGCTAACCCA[C/
T]CAGGCCATCGTCCGGCCGGGCCTTGGGCTCCCTCACGGCTGTCCTGTCCTGGCTGTGATCTCAGGATGGGAGA
TGCAGCTGCCGTTTGGTTTGGGGTTTG C/T 1,605 0.104 0.003
0.212 0.005 57.1% 196 96.8% 156 100.0% 58 100.0% 80
NA 0 56.1% 66 60.0% 40 56.7% 90
64.3% 42 NA 0 96.2% 78 97.4% 78 100.0% 58
100.0% 80
rs4785772 AB_ASSAYS_ON_DEMAND 16 129.7018 89031385
forward LGD
GGATGATGTGGACCAGTTCATGTTATCTGAATCCAGGCTGTTTTAGGTATGAACACGGGTGAAATCTGTGAATGG
CTGTTCTGATAATTAAAGGCTTCTG[C/
T]TGTGTCTTCTGACCCATATACTGCTCTTCAGTAGGTGACGTGGATATTACTAGTCCTCAAGAGAGTAAAGTGG
ATATAGTGGCTTTCACATATATCATCT C/T extended_map 0.128
0.029 0.343 0.002 59.9% 192 10.3% 156 0.0% 58
13.8% 80 NA 0 54.8% 62 63.2% 38 62.0% 92
63.9% 36 NA 0 10.3% 78 10.3% 78
0.0% 58 13.8% 80
rs4420527 AB_ASSAYS_ON_DEMAND 16 130.4543 89557983

reverse LGD
AGTTGGTCAGAGCTGGGGAGACGGATACCAGCCCCTCCCACTCTACAGAGAGCAGCTTCTGCTCCCGAAGGCCTT
TTTCTTGTTTTTGAAGATGCACAAA[C/
T]GTGAGAGATGGAATTCAGGTTCCATGCCAGCTGTGCAGCATTTTATATTTTTATTTATTTATTTATTTATTTA
TTTTTTGAGACAGAGTCTTGCTCTGTC C/T 679 0.144 0.171
0.001 0.336 11.7% 188 61.2% 152 13.8% 58 1.3% 80
NA 0 10.3% 58 7.9% 38 14.1% 92
11.9% 42 NA 0 62.2% 74 60.3% 78 13.8% 58
1.3% 80
rs3785275 APPLERA_RESEQUENCING 16 130.4945 89585824
reverse MIT
TCCACTCTGGGACTTGTGCTTTTCCATTTTCCTAACCTTGAGTGTCTGTTGTGCTACACCACCCGAGTGAGCTCG
GGGGTGGCTGTGCCAGCTCAAGCCG[C/
G]TGCTTTGGGTACAGGGTCCGCCCACCATGCTGACGCCCAGTGCCAGCTGTGGCACAGACTCTTACCTGGGGGT
CCTGAAGAATCACTTAGCACCTTCCGG C/G extended_map 0.092
0.264 0.023 0.157 31.8% 198 75.3% 154 15.5% 58
28.7% 80 NA 0 30.3% 66 30.0% 40 33.7% 92
45.2% 42 NA 0 77.6% 76 73.1% 78
15.5% 58 28.7% 80
rs759974 TSCAF 17 0.577 385709 forward MIT
AATTTTCTTTTCTTTTTCTAGCCCTCACTGTCCTGGCCTCTGGTTCTGCTAAGGTGTGTGACGGTGGACCACCAT
GGTCCTCCGATTGGGTGCCCCTGCT[A/
G]CAAGTACCATCAGCCCCTGCAGCCTCTTGAGAGAGGTGACAGTGGTGGCACATGGGTACGGTCCCCTTGCCCT
TTGCCCCTTGCCCCTTGCCAGGCACCG A/G 675 0.2 0.244
0.000 0.148 97.0% 304 47.5% 240 98.1% 52 89.7% 68
96.6% 116 95.3% 64 97.4% 38 98.8% 86
84.2% 38 42.0% 112 50.0% 60 54.4% 68 98.1% 52
89.7% 68
rs910925 TSCAF 17 0.7067 634297 reverse MIT
GTGGCCTCCGTGGCCCGCCTGGTCATAGTGCACCCGGAAGTCACGGTGAAGAAAATGTGCAGCCTGGCTGTGGTC
AATCTCGGCACCCACAAGTTCCTGG[C/
G]CCAGATTCTCACTGCCTTCCCTGCCCTTAGGTTTGTGGAAGAGCAGGGTCCCAATTCATCTGCCACTTTCATG
GTGTCATGCCTCAAAGAAACCGTCTGG C/G extended_map 0.075
0.065 0.005 0.031 89.2% 334 56.2% 308 84.5% 58
76.2% 80 87.0% 138 92.2% 64 92.5% 40 89.1% 92
81.0% 42 56.4% 156 52.6% 76 59.2% 76
84.5% 58 76.2% 80
CV11685062 AB_ASSAYS_ON_DEMAND 17 1.0988 721710 forward LGD

AGGCACATACAGCAAAAAGTCAGTGTATAAATTCACAGAGTTCATAAATCCCCCTGAAGCCTGTTAGCGGAAACT
GATCACGGGAGGTCTACAGACCCCA[A/
G]ATGAAGACCTCCCTGTCTTAAGAGTTCATGTCAGTGCACGTCTTGACCTTGATTCAACTGAGAGAGAGATAAT
CCTGCCCCATCTGTATCCTGCTGTAAA A/G 306 0.254 0.000
0.410 0.000 67.2% 198 0.6% 156 0.0% 58 0.0% 80
NA 0 75.8% 66 72.5% 40 58.7% 92
73.8% 42 NA 0 0.0% 78 1.3% 78 0.0% 58

```
        0.0%    80
CV22273386      APPLERA_RESEQUENCING    17      4.7161  1759427 forward LGD

GGCGCTCGTTCTCCTCCCGCAGCCGCCGCAGCTCCTGCTCCGCCGGCTGCGCCGACACCTGCAGCTGGGGAGACC
CGGGTCTCAGGCTTCGGCCCTGCCG[A/
G]CCCCGTGGGTGGCGAAGGGAGGGCCATGACTCACCGAGTCCGGGGCGGGCCCCACGGCAGCCTGTTCCAAGAG
CTCCAGCGCCCGCACCACTAGCGGCAC     A/G             1,005   0.174   0.002
0.274   0.055   48.5%   198     100.0%  154     100.0%  58      87.5%   80
        NA      0       59.1%   66      32.5%   40      47.8%   92
50.0%   42      NA      0       100.0%  78      100.0%  76      100.0%  58
        87.5%   80
rs724172        TSCAF   17      7.3885  2860837 forward MIT
GGTAGCATTGTGTGAGTGGCAGGTGGCTCAGAGATTGCTCTGGGTAAGTCATTCCTGTCCCTGCCTGGAGGACTG
GGCTGAGTGGATTCAGGCTAATGGG[C/
T]TGGTGCCTGGCTTTCCCCACTCCATGGCTAGCCAAATAATCCCTGGCCTTTCCTCCTGGACCAAATTTTCAGA
GAAGCCCTGTACCTTCAGAGCTGGGAG     C/T             1,762   0.066   0.000
0.103   0.038   39.0%   326     75.6%   308     76.8%   56      53.7%   80
        38.3%   128     33.3%   66      40.0%   40      43.5%   92
40.5%   42      74.0%   154     84.2%   76      70.5%   78      76.8%   56
        53.7%   80
rs2436091       APPLERA_RESEQUENCING    17      10.1705 3830165 forward MIT

TGGCAGAGCCAAGATCAGAAGTGTTAAGGCTGAAAACAGGAAGAGGGCAACAGAATGTCTGTGGAGGTGCTCAAA
GGTTAGGCACAATTTTCCTTGGGCA[C/
G]TACTCAGAAGCCAGCCAGGAATTACCTTAGTTCTGTGGTTCTCTGCATTCAGTCCCTCATATAGAGATTTGTT
GAAAGATATTTCACCAAGGATCTGCAG     C/G             extended_map    0.216
0.002   0.340   0.001   59.7%   176     0.0%    146     0.0%    56
0.0%    76      NA      0       58.1%   62      53.6%   28      62.8%   86
        46.9%   32      NA      0       0.0%    72      0.0%    74
0.0%    56      0.0%    76
rs2891  PARRA   17      10.3359 3912116 reverse MIT
ACAAAATAACATGGATTTTTATCTAGTAATGAAGTCAACACCATTGTCCACCCTGGGTTAACACATTCACATCTC
AAAGCGAATGGGGCTGCAGACACTC[A/
G]TGTTAGAGAGCCTTGGAATGTCCTGCCTTTTTACGTTTAATTAAAATTAAATAAAATATACAAAATTCAGTTC
ATCAGTTGTTCTAGTGGCATTTTAAGG     A/G             443     0.205   0.011
0.167   0.010   2.0%    342     50.3%   308     37.5%   56      62.5%   72
        2.1%    144     1.5%    66      0.0%    40      3.3%    92
0.0%    42      47.4%   156     55.3%   76      51.3%   76      37.5%   56
        62.5%   72
rs737361        APPLERA_RESEQUENCING    17      10.5097 3993394 reverse MIT

ACCTGGGCCACACCCTCAGGGCCAGTAGCAGATGTCCAGTGTGCCTCTCCGGACCTCAGTCCACATGTACCAGCC
TGTTCTAGCCCCTGGTGGCTGCACA[C/
G]TAGTGACATTTCTGTCCCTCCTTCCTTAGGCAATGAAAGTCCTTTCCAAAAAGAAGTTACTGAAGCAGTATGG
CTTTCCACGTATGTATCTTCTGATCCT     C/G             extended_map    0.053
0.026   0.018   0.004   56.7%   194     87.3%   142     72.4%   58
```

82.5%	80	NA	0	50.0%	64	39.5%	38	68.5%	92
	38.1%	42	NA	0	85.7%	70	88.9%	72
72.4%	58	82.5%	80
rs4790202	APPLERA_RESEQUENCING	17	11.6551	4643804	forward	LGD

TTTCTAACTGGGCCATCACTGCAGACATCCTCATGGTGAGCCAGGCAGGCCGAGGTCACCTTGTGCTGCTGACCC
AGGCCTCTTGACCTCACAGGGGTGC[C/
T]TGGGGAGGGCGGGTGAAGGGGCGGGAGAGCTGGTAGGAAGGCAGGCCTGCCAGGAACGTGAACCCAGAGGCAG
GGAGGGGATCAGAGAGTTTGGGGTCTG	C/T	1,238	0.117	0.001
0.183	0.040	13.8%	196	59.0%	156	62.1%	58	35.0%	80
	NA	0	6.2%	64	12.5%	40	19.6%	92
2.4%	42	NA	0	59.0%	78	59.0%	78	62.1%	58
	35.0%	80
rs740910	TSCAF	17	14.1693	5907188	forward	MIT
ACGCAGCTGTTAAAAAGAATGAGTTAGATTTCTATGAAAGGATTGTAGCATATTGTTAAGTATAACAGTTTGCTA
AGTAAGGTGAGTGGTATAATCATAT[A/
G]TTTGTAAAAAGCAAAACAAAATAAAGCCAAAACTCGAACCTATCTTTGTGTGTTTGCCTATGAACAGAGAAAG
GGAAGTGAGGATGCACATCAGACTTAG	A/G	1,488	0.126	0.197
0.585	0.070	0.3%	332	29.0%	286	81.2%	48	5.1%	78
	0.0%	144	0.0%	62	2.6%	38	0.0%	88
0.0%	40	28.9%	152	26.4%	72	32.3%	62	81.2%	48
	5.1%	78
rs756696	TSCAF	17	16.2056	6139579	reverse	MIT
TGAGATAGAGCTGCCTTTTTCAGAGCCCTGAGGTGCATACACTTTCTTACAGTGTGTTAGACACCTTTTGTGAGC
AGGTAATGTGGTGCCCCGTACATCT[A/
G]TAGGAGGCACAAAACAGCGACCCTGGTGTCCTGTCTGGGGCCTGATTTTTCCCAGCTCTGCTGGAGGCTGCTG
TCAGCAGTGGATTTTCAGAGCATGTGG	A/G	549	0.185	0.036
0.093	0.080	1.8%	332	46.1%	306	24.1%	58	15.0%	80
	0.0%	134	0.0%	66	0.0%	40	6.5%	92
0.0%	42	44.7%	150	50.0%	78	44.9%	78	24.1%	58
	15.0%	80
rs907946	AB_ASSAYS_ON_DEMAND	17	17.3321	6521084	forward	MIT

GCCCCGAGACTGCTGAGAAAAGACAAATGCTCCACTACATCTTCAAATGATGGGTGGCAAGAGGAAAGGCGAGAT
TCTTTGTTCATCAGATTCTCGCACT[A/
G]ATGAGGATACCTGAAGTAATGGAGCAATTGTAATTAGGCCAGGAACTCTGTAGACTTGAAACCACCATAAATA
AGAATGCTAGTTTACCTAACCTTTCCA	A/G	1,858	0.08	0.048
0.016	0.022	20.1%	194	59.1%	154	32.8%	58	41.2%	80
	NA	0	21.2%	66	27.8%	36	16.3%	92
11.9%	42	NA	0	61.8%	76	56.4%	78	32.8%	58
	41.2%	80
rs378149	APPLERA_RESEQUENCING	17	19.772	7182544	reverse	MIT

AGGGGTTTAAAAATGGTAAGAGGAAAGGGGAAACTCTCCTAAAATGCCCTCTTTATATGTTTAGAAGGATTTCTC
CTATCATTTCTGTACCTCCACCACG[C/
T]GCACTGGTGGGTCCTAACTCTGAGGAGGTCAGGCCCCAGCCTCTGACGGGCCTAGTGTGAAGAGGATGCAAGG

TCTCTAGAAAGACTGGGACAGGGAGGA C/T 782 0.21 0.001
0.361 0.008 65.9% 182 3.8% 156 1.7% 58 8.7% 80
NA 0 68.8% 64 71.4% 28 62.2% 90
68.4% 38 NA 0 1.3% 78 6.4% 78 1.7% 58
8.7% 80
rs858521 TSCAF 17 20.7818 7730713 reverse MIT
GCTGAGGCTGGGGTGGGAGCAAAGCACCCCACAGACCCCACTGTTATCCCCTGTCCCCAGAGCCCAGCCGGTGTC
ATTTTCTGATCCCCTTCAGCTCAAA[C/
G]AATAGCTATTTTTTGCCTCTTTCTCTCCACAACAGGTCAAGGGATTGGTTCCAAAATAATCAAAAAGGTGGCT
GAGGTGAGGAGATGGGTGGGGCGACAA C/G 1,489 0.12 0.016
0.076 0.012 4.4% 340 41.5% 306 26.8% 56 28.9% 76
2.7% 146 3.1% 64 2.6% 38 8.7% 92
9.5% 42 49.3% 152 30.8% 78 36.8% 76 26.8% 56
28.9% 76
rs186283 TSCAF 17 20.914 7854231 forward MIT
TCCCTTTGAGTAGTATTTTTCCTCACAATCTGACATACTGGGTATTGGTTTCAATGTTTTTCTTAGATCTGTTTT
TTTCCTGTCCTCCTGCTTCTGTCCA[A/
G]CTGGTGTTGTTTTCAAGGCCTGTTACAAAGCAGTTACCCCGGGACTTCCCTCAGCCTCTTTCCTTGTTTGATT
TCATGTTTCCTTTGTCTTCCTCTTTTT A/G 1,566 0.13 0.125
0.003 0.165 1.6% 318 35.2% 256 2.1% 48 0.0% 66
3.4% 146 0.0% 52 0.0% 38 0.0% 82
0.0% 38 31.4% 156 42.6% 54 39.1% 46 2.1% 48
0.0% 66
rs2816 PARRA 17 21.2359 8124130 forward MIT
TGTCCCATCTGCAGTGGACCCCAGGCACCCCCCTTTGAGGAGGTGGGGTGAACTGCTCCTTGGCAGGGATTTGTG
ACACTGCATTGCTGGGCTGTGTTCC[C/
T]CGGGCTCTTCTGGACCTTGCACCGTGGATACCAGGCCATGTGCCATGGTATTTGGGTCCTGGGAGGGTGGGTG
AAATAAAGGCATACTGTCTTCCATGTT C/T 302 0.266 0.218
0.017 0.244 0.3% 340 52.8% 252 3.8% 52 2.6% 78
0.0% 142 0.0% 66 0.0% 40 1.1% 92
0.0% 42 58.5% 106 50.0% 72 47.3% 74 3.8% 52
2.6% 78
CV1455767 APPLERA_RESEQUENCING 17 26.9585 9831673 forward LGD

AGGTGTCTGTGCTGCCCGGCATGTAGATACCTTCTTTGGCACTGGCTTACCCTGTGGCTTCAAACGTGTAAGTGG
ATATTGAGGAAGAGTGGGTGAAACC[A/
G]TTGCTGTTCCCCAAAGGCAGGAACCCTATGTGGCTTCTTCACTGCTGTGTCTCCAGTGCCCAGCACAGTGCCT
CCCACATCAGAGGTGCTCAGTGAACGT A/G 662 0.187 0.008
0.222 0.224 34.0% 194 93.4% 152 87.9% 58 43.2% 74
NA 0 28.1% 64 39.5% 38 35.9% 92
21.4% 42 NA 0 92.1% 76 94.7% 76 87.9% 58
43.2% 74
rs1158485 TSCAF 17 27.7166 9972864 forward MIT
CCTATGTTCAATAAATCACTAAGCCAAGNACACAACGTTTTCTCTTTATGATGAGAGGCAGATATCCCATTAAAA
GAAATACATTACTTGATTACATTTA[C/
G]CTTGTATTTAAACTTTCTGTTCCTAAATATTCTTTGGCTAGGAACCTCCATCATTCCTGCTGGCTTCAGGCCC

TCACATCCAGTCAATAACAAAGATCAT C/G 1,007 0.151 NA NA
NA 64.8% 128 10.5% 152 NA 0 NA 0
64.8% 128 NA 0 NA 0 NA 0 NA
0 10.5% 152 NA 0 NA 0 NA 0
NA 0
rs2270115 APPLERA_RESEQUENCING 17 27.8907 10005290
forward MIT
ACACCAAAAGCAAAGGCAACATAAACCAGAATAAACAAGCAGGATAGCATCACACTAAAGAGCTTCTCCATGTCA
GAGGAAACAATGAACAAAATCAAAA[G/
T]GTAACTTATGGAATGGGAGAAAACATTCGCAAACCATTTGCGTTCTGCCTCCCCGGAGACACCTGTGAGCAGG
TCAGGCAGGGGCAATAATGGCTGTGAA G/T extended_map 0.075
0.021 0.040 0.079 39.1% 192 78.4% 148 63.0% 54
46.2% 78 NA 0 28.1% 64 47.4% 38 43.3% 90
40.0% 40 NA 0 81.9% 72 75.0% 76
63.0% 54 46.2% 78
rs4792008 APPLERA_RESEQUENCING 17 30.7147 10736327
forward LGD
CCTGGGCTCAAGTGAGCCTCTTGCCTCAGTCTCCCAGAGCGCTGGGACTACAGGCGTGCACCACTGTGCCCAGCC
TACATTTCTGAGTATGTGAGGAGGA[A/
G]AGAGGTTTTTCCCCGATGGGTTCTCTCAAACCTTCAGCTGTCCCTGGACACTCCTGAGGTGTTTGAGGGTCTC
CGCCGCCTGGCGGTTGGCGTGGCTCAG A/G 465 0.185 0.181
0.010 0.080 82.1% 196 22.4% 156 72.4% 58 55.0% 80
NA 0 80.3% 66 82.5% 40 83.3% 90
92.9% 42 NA 0 23.1% 78 21.8% 78 72.4% 58
55.0% 80
rs1513747 TSCAF 17 32.15 11543471 forward MIT
AGACTTCTGGGGGAAAAATGGGTAGCGTGGAGTCCAGCATTTCCAAGTTGAATCATGAATTTACAACTTACTAAT
TGTGTGACCTTAAGCAACTGACACC[A/
G]TTACTCAAGTTAAGTAACTAAGTCCAACTAATTCTAAATGCCATCTACAAGACGGAGACATCAAATAAATAAA
GCAGGTAAAAAAAATTACCCTGCATTT A/G 1,370 0.1 NA NA
NA 19.6% 92 63.8% 94 NA 0 NA 0
19.6% 92 NA 0 NA 0 NA 0 NA
0 63.8% 94 NA 0 NA 0 NA 0
NA 0
rs1010798 TSCAF 17 32.5073 11728995 reverse MIT
AATGAGAGTTCTCGCCAAGGTGCTTACTGCATTGTTTGGAGGGAAGAGGCTGCAGGCAGAAACTCAAACAGGGGA
TCTGCAGAATCTACAACTCTATGAC[A/
G]CAAAAATGAACTCGGTGTGTGTGTGTGTGTGTGTGCACTGATGCATCAAGCAGGAAGGCAGGATGAAAGAAGG
AATCAAGAGGCAACCCAACAACTCTTT A/G 1,860 0.082 0.030
0.022 0.066 99.7% 334 79.7% 310 94.8% 58 98.8% 80
100.0% 138 100.0% 66 100.0% 38 98.9% 92
100.0% 42 78.8% 156 84.2% 76 76.9% 78 94.8% 58
98.8% 80
rs757594 AB_ASSAYS_ON_DEMAND 17 33.7896 12201198
reverse MIT
CCAAGGCTAGGTGTGTAAATGGTACATGAATGATTAAATAAATGAACAAATGAAATAAATTGGTATATTCCAGCA

CTATGGAGGTGATTTAGGGTTCAGG[C/
T]AGAGCTGGGGAAAGTCTATAATGAAAACGAATACAGCACTGAAAAAGTTGACCACAGAATCTAGTTAGGAGAG
AAAATCTAGTTCAGTCCCTAATTAACT C/T 1,615 0.084 0.007
0.078 0.004 37.4% 318 78.7% 310 70.7% 58 85.0% 80
36.5% 126 32.8% 64 36.1% 36 42.4% 92
45.2% 42 77.6% 156 73.1% 78 86.8% 76 70.7% 58
85.0% 80
CV25981636 APPLERA_RESEQUENCING 17 36.2422 13097859
forward LGD
AGACTGCAAAGCAGACAGTGGCACAGACCCTGGCCATCAACTGCCAGGGCACCCGGGGAAGCTGGTGGGTTTTCT
TAACGGGCACCTCCGTAGCCAGCAC[A/
C]ATCTCCCCTGAGGGCCAGAGCCTTCGCACACACCCCTGGATGAAGCCCACCCTCTGTGCTGGCTGCCAAATCT
GTCCATGAGGGCACCCAAGAGAAACCA A/C 518 0.175 0.039
0.097 0.038 14.6% 198 71.4% 154 48.3% 58 48.7% 78
NA 0 16.7% 66 7.5% 40 16.3% 92
14.3% 42 NA 0 67.1% 76 75.6% 78 48.3% 58
48.7% 78
rs2024157 TSCAF 17 44.2401 15397103 reverse MIT
AAGGAGGGTCCCTGTGTTGACCTCTGAGAAGATGGAAGAAGGAAGGGAGGGGAGCCCTTTTGTTCACCTTCTGAA
GTCCAGGGGTGTTACCATTACTGTT[A/
G]TACAGTGTAGCCACGTTCTGCGTCTATGTTCAACAAGCAAGATCCTTGATCACTGGAGGGTCTTCATCGTTTG
ACACATACAGGCTACATGTAGGAAATC A/G 1,735 0.103 0.052
0.027 0.007 76.6% 334 31.7% 306 58.6% 58 41.2% 80
77.5% 138 78.8% 66 86.8% 38 69.6% 92
85.7% 42 27.6% 156 37.8% 74 34.2% 76 58.6% 58
41.2% 80
rs728854 TSCAF 17 44.6025 15559232 reverse MIT
AGATTATTGGAAGCCATCTTGCAGCCTGCCTAGGATAGGCCTTATGGGCCCAATTGCCATTCATCCTATTGGCTC
TGTCACCTTTGCAGTTCTGTTAAGA[C/
T]GTGAGTTGTGAGGGGCAGAGGAAAATGATTTCCATGTTTACCCTTACTCCTCTTGGGAGGTAGATAGCTTTGT
TGGCATAGCATCTAGAGACTTCTCAGG C/T 776 0.22 NA NA
NA 31.4% 140 95.5% 156 NA 0 NA 0
31.4% 140 NA 0 NA 0 NA 0 NA
0 95.5% 156 NA 0 NA 0 NA 0
NA 0
rs2076840 TSCAF 17 45.5579 15986653 reverse MIT
CACCAGCTGCTGGCATATTTGACCTACTGAGTCAAACCTGAGACAAACGGCCCATGGGAGGAAAGACGACAAAGA
AACTTAAATCACCCTCAGTCTCCAG[A/
G]AGGAGGACACGTTCTGACAATATTTTATTTTGAAAATCCTGTTTTTCCTTCCTAAAGCTGGCATGACATCTAG
TATTTCTATTTATATGGAAAAAAGTGT A/G extended_map 0.067 NA
NA NA 74.1% 112 37.2% 156 NA 0 NA
0 74.1% 112 NA 0 NA 0 NA 0
NA 0 37.2% 156 NA 0 NA 0 NA
0 NA 0
rs758857 AB_ASSAYS_ON_DEMAND 17 45.7103 16054823
forward MIT

CTCACTTCACCCACCTGGAGAGGCTTCTCAGCCACTGCATTGGTTTACCGCCATCTCTAGTTATCCCATTAAACC
ATGTCCTTACTCAGAGTCTCTCTGC[A/
G]CCCAGTGTGCTAGCCTTGTGGGCAGGGGCCTTACACCCCAGGATGCAGCGCGATGCCGGCACAGGCTAGGAAA
GCACATTGTGGATGAATGCATGAGTGA A/G 1,169 0.174 0.063
0.075 0.034 74.8% 322 16.3% 300 42.9% 56 35.0% 80
74.3% 136 82.8% 64 81.6% 38 66.7% 84
76.2% 42 17.1% 152 16.7% 72 14.5% 76 42.9% 56
35.0% 80
rs758858 AB_ASSAYS_ON_DEMAND 17 45.7119 16055513
forward MIT
GTTTATAATCCTGCTGGGGCCTCCAGCTGACATAAGGGGCTGGTTCCTGGCATGTTGATTCCAGAGGACACACAC
ATGGCTAGGCAGGGGCCAAGGTCTG[A/
G]TTTGGTCAGTGAGGTCCTCAAATGTGTCTTGGAACCAGGTCAGAACTGGGGTAATTCAATCCAGAGGATACCT
GAAGGCCCTCTCCCTTCGGGGAGGGTA A/G extended_map 0.097 NA
NA NA 65.9% 138 100.0% 108 NA 0 NA
0 65.9% 138 NA 0 NA 0 NA 0
NA 0 100.0% 108 NA 0 NA 0 NA
0 NA 0
rs936108 TSCAF 17 47.4702 17640359 reverse MIT
CCTTGCGGGGCTGCTGAGTTCTTGATAGAGGTAACAAGCAACCCTGGGGCTCCCGTGTGCAGGAGGAAGGTTGGG
GACTGCCTGGTTGTGCTTCGGACCC[A/
G]GAGGCAGACAGAGGAGGCCTTTGAACTTGGCCTGAGCTTGTTGGGTGAAGCCAAGGACAGAGGCTGGGGTCTG
AGTGAGGGGAGATGGTCCCGTGAAGTC A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.038 NA NA NA 72.7% 128 44.9% 156
NA 0 NA 0 72.7% 128 NA 0 NA
0 NA 0 NA 0 44.9% 156 NA 0
NA 0 NA 0 NA 0
rs744925 AB_ASSAYS_ON_DEMAND 17 47.4939 17668067
reverse MIT
ATTCCTCACTCCCTGCCAGGAGTGGAATGTGGGCAGGTAAGAGTCCCAGAGGGGTAAGAGCCATTGGTGGGAAGC
AACTGTGGGACCAGTGCCGCCACCA[C/
T]GGCCCAAGGACCTGGTGTTCGATGCCGCATCCTTCCGGTGGCGTCTGTGGCTCTTCTCCTTCCCCCTGACCCA
CCCATGCCTCCGCCCTGGGGCTGGTGG C/T HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.053 0.053 0.003 0.040 24.8% 326 57.0% 298
29.6% 54 33.3% 78 21.7% 138 30.0% 60
28.9% 38 24.4% 90 23.8% 42 58.0% 150 55.4% 74
56.8% 74 29.6% 54 33.3% 78
rs959071 AB_ASSAYS_ON_DEMAND 17 48.7436 19304375
forward LGD
CAGAAAATATCCTGTGAAAGAAGGGATTGGAACAGGGTGTTAAAATGATGGGAAAAGGTGAATTTTAAGAATCCA
AGCTTCCTCTCATTATGTAATATAA[C/
T]GAAGATTTGGCAGAAAACGTGCCTCTTGTAGCTCTAGATACAGAATTTTAGGTGCTGACAAAATCTTATGCTG

AATCTGGCACAGCAGTGATTGAGTTAG C/T HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression; SNP has an inconsistent order between UCSC HG16 and Celera R27 maps 46
0.382 0.330 0.033 0.424 94.4% 198 14.7% 156 81.0% 58
88.7% 80 NA 0 97.0% 66 100.0% 40
90.2% 92 95.2% 42 NA 0 15.4% 78 14.1% 78
81.0% 58 88.7% 80
rs868698 AB_ASSAYS_ON_DEMAND 17 48.776 19347242
forward MIT
CCCTAGCTGTCCTAATCTACCTGGGGCAATCCCTGGAGACTTCTAGGGCCTCAGTTTTCCCATTTTATAGGTAAG
GAACCTTCATCCCCTGCCAGACTGT[G/
T]GCCTTCTTGAGGGCAGGGACTCTGTTTTTAATCTGTAACATTCATTTATTTAACAGTGTTCATTTCTGTGTCG
GGCACAGTGCTAAGTGCTGGGTGCTCA G/T HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression; SNP has an inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.065 NA NA NA 44.2% 138 10.4% 106
NA 0 NA 0 44.2% 138 NA 0 NA
0 NA 0 NA 0 10.4% 106 NA 0
NA 0 NA 0 NA 0
rs7502682 AB_ASSAYS_ON_DEMAND 17 48.8595 19457480
forward LGD
TTTCCTGAGAGGACCCTGACTGACTCAAGGTCTTACTTTGGTTTCCTCTAAAAGCACAGCAGCCTGTGGAGTGGA
GCATTTTCTGTTGTTTTGGACAACA[G/
T]CTAAGGACAAGACCCCTATTCTCTCTGCAGGTGCAGACACCTCCCTGTGTGTCTTGCTGGCAGGCAGCTAGAC
TGCTCCTTTATCCACCCTCCTGTATCC G/T HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression; SNP has an inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.31 0.271 0.022 0.453 5.4% 186 76.0% 150
15.5% 58 2.6% 78 NA 0 3.1% 64
0.0% 38 9.5% 84 4.8% 42 NA 0 75.0% 76
77.0% 74 15.5% 58 2.6% 78
rs763751 TSCAF 17 48.8832 19488886 forward MIT
TTTTATTTCACTTTGATAATCATATCAGAACATGTGAAAGGGTCCCTCGCAGGGTGGTGACAGCCATCTTTCCTC
TAGAACACCCTTATGTACATGAAAT[C/
T]ACCTGATCGTTTATGGGGTCCAGATTTCCTTTGGCAGATCCTTCTGAATCCTTCTGGTTTTACGTCTCCAGGG
AAGAGAGAAGCCCTTTTAAGTACAGAA C/T HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression; SNP has an inconsistent order between UCSC HG16 and Celera R27 maps
extended_map 0.125 0.037 0.086 0.173 56.0% 316 98.4% 312
87.9% 58 62.5% 80 58.2% 122 51.6% 64
63.2% 38 53.3% 92 57.1% 42 98.7% 156 96.2% 78
100.0% 78 87.9% 58 62.5% 80
rs1044420 AB_ASSAYS_ON_DEMAND 17 49.9122 21065805
reverse MIT
CTTCCTGTCTCCACTTGCATTCAGGGGTGGCTGCTGTTCTGAGAACATTAGAACTGGGAAGAGAGATGGAGTCAC
ATGGATTTTTGGTGGGCATTATTCT[A/

G]AACTTTCGTATCCAAGTTAGTCCCCCTTATTCCACTGTGGCATTGCCGTTCTAAGCAGTTACCTGATGCCTGC
TGCTGAAGAGCTGCTCACAGGAGGCGG A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression; SNP has an
inconsistent order between UCSC HG16 and Celera R27 maps 1,618
0.156 0.038 0.087 0.071 21.4% 196 76.9% 156 55.2% 58
46.3% 80 NA 0 25.8% 66 15.8% 38
20.7% 92 27.5% 40 NA 0 74.4% 78 79.5% 78
55.2% 58 46.3% 80
rs732928 AB_ASSAYS_ON_DEMAND 17 49.9668 21306103
forward MIT
GGAGACCTGCAGGCCCCTGAGCATCCCCTGCCCCAGTCAGGTTCTCGCCCAGGTGCATAAACCGGCCCCATGTGG
CTGCATCCTTACCAAGGACCCCCAG[A/
G]TGACCGGACAGGAGGGGTGAGGCTAGGCTGCCAGGCAGACAGGGTAGCACCAGATGGGATGGGCTGGGGGCTC
CAGGGCAGGGTGTCTGTGGCAACCCAA A/G SNP has an inconsistent order
between UCSC HG16 and Celera R27 maps 2,088 0.052 0.053 0.002
0.003 73.4% 320 41.5% 306 69.0% 58 35.0% 80
73.8% 122 77.3% 66 85.0% 40 65.2% 92 88.1% 42
42.0% 150 42.3% 78 39.7% 78 69.0% 58
35.0% 80
rs631905 AB_ASSAYS_ON_DEMAND 17 51.9096 27028877
reverse MIT
TAGCTATACCATGAGGTTTATAGCTTCTAAAGAGCACAGAATATGTTTTCCTTTTCTCTCCAGAGTGCCTAGGGC
AGAGCTGTGCAAGGGCCTGGTATGA[C/
T]GTTGTGGCAATCTCATTCCCCCTTTCAGGTATATAATGTTGACTCCAAAACCTATAATGCCTCAGTGCTGCCA
GTGAGAGTCGAGGTGGACATGGTGCGA C/T extended_map 0.209
0.012 0.186 0.004 8.9% 180 67.9% 156 55.2% 58
75.0% 80 NA 0 3.2% 62 21.4% 28 8.9% 90
13.2% 38 NA 0 67.9% 78 67.9% 78
55.2% 58 75.0% 80
CV25758409 APPLERA_RESEQUENCING 17 52.0143 27199132
forward LGD
AGACACCCCTCGCTGGCGCCTCCCGACTGCCGACGGAGTCCCCGCTGCCCTCGCTCGCCTGGCCTCATTAACCCG
CGTCCCCACTTTTCCCCGGGCCACC[A/
G]GCTACCCCGCCCTGGGCGGGTACCGCGAGAGCTCTCTCCGCCCTCTACTTTCTGCGCAGAGCTGGACGGGACC
CGACACGCCCACGCCCCCTAAGTCCTG A/G 174 0.304 0.003
0.331 0.010 97.5% 198 32.1% 156 37.9% 58 21.2% 80
NA 0 100.0% 66 97.5% 40 95.7% 92
95.2% 42 NA 0 33.3% 78 30.8% 78 37.9% 58
21.2% 80
rs2952998 APPLERA_RESEQUENCING 17 53.05 29563975
forward MIT
TTCCATGGGCTACATTCAGACAGCAGACGTATTTTGTTTGGCTACACAGCATTTAAAAAATGTAAATTGGCTGCC
ACTATGTAAAAATTGGAAGAGTTTA[C/
T]ATGTAAGTTCAGATCTCTAGCTTCTCTTGAGTAACTAGAAGATCTAGCAACACTGGGTCAACATTCCTGCATG
GCAGTAACTGGAGTTGAGTGACAGATA C/T extended_map 0.317
0.074 0.165 0.054 94.9% 156 23.3% 120 55.0% 40

```
50.0%   58      NA      0       95.0%   60      100.0%  32      92.2%   64
        90.0%   40      NA      0       22.2%   54      24.2%   66
55.0%   40      50.0%   58
rs2952992       AB_ASSAYS_ON_DEMAND     17      53.05   29569552
forward LGD
TAATGTTACTGCATATAAAAGATTACATTATTGATAGAGCGTTAGATTTAAAACTTGGTAGAAAAGACTCTGTAA
TTTTAAGAAAGGATTTAAAAGGCAC[A/
G]TAGAAGACTTCCAAAGCTGAACCTTGTGGACAGCAGAATCTGGATGTAGGAAATTGAAGGATCCACGCCGCAA
TTCTCCTTAAATTTTAAAAATTAAAAA     A/G             extended_map    0.231
0.061   0.112   0.031   10.2%   196     73.7%   156     44.8%   58
53.7%   80      NA      0       6.2%    64      5.0%    40      15.2%   92
        23.8%   42      NA      0       70.5%   78      76.9%   78
44.8%   58      53.7%   80
rs2952991       RANDOM  17      53.05   29672305        forward MIT
AACTGTAAAGAGGGGTTGACATCACAAGAATAGGTAATTTTTTTTGAGAAACAAATTTAGAGCAACAGAACAGCC
TTGAATATATTCTTATTTAGAAGGC[C/
T]GAAGGTTGAATATAACCTGGAGTGTTAGAAAAGGGTGGAACAGTTTATCATAGACCAGAGCCAAGAAAGTATA
ATATTTAGACTTTAAATATCAAAAAGA     C/T             extended_map    0.177   NA
        NA      NA      88.7%   142     33.1%   154     NA      0       NA
        0       88.7%   142     NA      0       NA      0       NA      0
        NA      0       33.1%   154     NA      0       NA      0       NA
        0       NA      0
G1556a25        RANDOM  17      53.05   29734923        forward MIT
TCTACTACACTATAACATTTTTCAGAACCCTCATAAAGGTTAATGGTTTTAAATTATTTCAGATTAAGGTTCAGA
AAATATAGTATACTTCAGTATTGCT[A/
G]TAAAATTTCTGTGGACATTTGTTTGAATCCCATTTAGTGGGATTTAGTTTGTGAATGAAAAGATCCTCATTGT
TAGACACTTACTCTGTGATGATACAGT     A/G             extended_map    0.195   NA
        NA      NA      11.3%   80      70.8%   96      NA      0       NA
        0       11.3%   80      NA      0       NA      0       NA      0
        NA      0       70.8%   96      NA      0       NA      0       NA
        0       NA      0
rs1800845       AB_ASSAYS_ON_DEMAND     17      53.1517 29849001
forward MIT
GGTTTACTGTTAAAAATACTGATATTTCCATAAACGAGTTTACCAAGGGTGTAGTATTTCATACCGCCTGAAATG
ATCAGCATTGGCACAAATCAAAATT[C/
G]AGCCGCCTTTGAAATGCAAAAATACCTTTGACTAGTAAGTACATCCTAGGAGTTTGAAAACTTAACTAAGGTT
TAAAATTTACCTTGTTTAAAGAACTTC     C/G             extended_map    0.315
0.093   0.132   0.041   96.4%   196     27.6%   152     63.8%   58
51.2%   80      NA      0       97.0%   66      100.0%  38      94.6%   92
        90.5%   42      NA      0       31.1%   74      24.4%   78
63.8%   58      51.2%   80
rs736598        TSCAF   17      53.1835 29866033        forward MIT
CTCCTGGCATGGGGATAGTCGCGCTCCTTCCTCTCAGAACACAGACTGCAGGTCGGATAAAGAAGCTACCAGCTC
TGGCTGAAACCTGGAGTCCCCGAAC[C/
T]CAGAGCCTCAGTAGTGGGAAGGGCCTCCCAACAACCTCTGGCAGGGGCCACCGGCCTCAGCCACGTGCCCAGC
AAGCCTCACCCACTTCTCCCCCAGCTG     C/T             extended_map    0.066   NA
```

NA NA 74.2% 128 37.7% 146 NA 0 NA
0 74.2% 128 NA 0 NA 0 NA 0
NA 0 37.7% 146 NA 0 NA 0 NA
0 NA 0
rs757379 TSCAF 17 53.1911 29870120 forward MIT
TGATAGTTAAAGGTGCTCTTTTGAGACCAGGCAACCTCTATGTGCCCCACCCTAATGAGGCTACCATGCAGAGTG
ACAAGGCTGGCACATCAGAAGGAAG[A/
G]CCCAGGTGCCCTGAGCCTGGCAGAAAAGGTGGGAGTGCCTGGGACCTGAGGTGGAAGCAGGACAAGAGTGAGC
CCAGAGAGATGTTCTCTTTCCTATGCT A/G 635 0.234 0.063
0.103 0.059 95.6% 318 37.9% 282 67.9% 56 66.7% 78
97.0% 132 98.3% 60 100.0% 36 90.0% 90
100.0% 30 40.6% 138 38.6% 70 32.4% 74 67.9% 56
66.7% 78
rs894723 TSCAF 17 54.797 30729567 forward MIT
GCCCCATTTTGCACAGTGCCACGTTCCTCCTCTGACCTGGCCTGATGGTGGGCGAGGCTGAAGAGTTATGGGTCA
CCTTCAGACCCTTTGAGCCAGCCCC[C/
T]CAGTTTCAGTCTGCTTCGCTGATTTTCATTCAGAGAACAGATACCGGCATGTGGAAGGGGAGACTTACTCAAG
TCACTCATCTCCTTGGTGATGCACTTC C/T extended_map 0.149
0.000 0.190 0.005 2.7% 330 42.6% 312 43.1% 58
51.2% 80 3.7% 136 1.6% 64 2.6% 38 2.2% 92
2.4% 42 45.5% 156 35.9% 78 43.6% 78
43.1% 58 51.2% 80
rs735555 TSCAF 17 55.2331 30963000 reverse MIT
GAACTAGAGAGTTCTTCCCTTAGTCCCCACCACTTCCGAAATGTCCACCTCCTCCGAAGAATAAAAAAATAAATA
CGGAGAAAGAGAAGGAAACAGACAC[A/
G]CAACTGGAATCCTGTGGATGCAACGTAACTGCACAGTTCGCAGCCAGGTTCCGCCAGCTGAGGGTGATACACA
CATGCGCCCTCCTCCTGAGACTTGGCA A/G 1,559 0.206 0.025
0.125 0.224 99.7% 326 56.7% 298 75.0% 56 100.0% 80
100.0% 138 100.0% 64 100.0% 40 98.8% 84
100.0% 42 54.6% 152 58.6% 70 59.2% 76 75.0% 56
100.0% 80
rs886359 TSCAF 17 59.3403 32545524 reverse MIT
TCATTTTCTCCTATCACCTCCTGGTTCTTTGATCTGTGAATACGTTACCTGGCATAATGGTTTTCCATGTATATT
TTTTCTCATTGACTCTATGTGTCTA[C/
T]GCTGACCTCTCTTTGAAATTACAAAATTTAGTACCAGGGCACGCACAGTTAAAAAAACATTTCTTAAATTATC
CACTAAGCCCCCAAAGTGGGAAGAAAC C/T 877 0.26 0.192
0.029 0.027 5.7% 332 69.1% 298 17.9% 56 50.0% 76
4.4% 136 4.5% 66 7.9% 38 7.6% 92
4.8% 42 68.2% 154 58.3% 72 81.9% 72 17.9% 56
50.0% 76
rs1860190 RANDOM 17 60.0936 32722123 forward MIT
TGTCATGGGCAGACAGAATGGGGATGAAAAAAAGCTTAGGAAATGGAAACCTCCCTATGCATTATATAATAAAAA
TGGCCAACACATTTTCATAGCAAGA[A/
T]ATCACAGCAGAAGCTTGTACTGGGCATCAGGACTGTAGGCATCCAATGCCCAGAAACTGGCATGTGCCCTGGG
ACATCCCCTGAGAAGGCATGCCACGAG A/T 2,032 0.067 0.158
0.008 0.022 28.2% 294 65.0% 266 18.5% 54 47.4% 76

20.0% 100 34.4% 64 32.5% 40 31.1% 90
42.9% 42 67.0% 112 62.8% 78 64.5% 76 18.5% 54
47.4% 76
rs212498 TSCAF 17 60.7525 32876599 forward MIT
GCACAGTGCTTGGCACACGGTAAGCATTCCACATTTACTGAAGGAAAGGATGGGTGAATGGATGGATGAGTGCTG
GGAGGCTGTATTGTAAATAACAAAA[A/
G]TGGGATCTGAAGGAAGGTATGGGACTCTGAAGTCTGCATTCCTTTTACCTTTTGCTATATTTTTCTGTCTCAC
TATTATATTTTGTTTTCTCTGGGCCTT A/G 398 0.333 0.010
0.557 0.010 95.0% 258 22.2% 230 11.9% 42 12.5% 64
97.1% 140 90.5% 42 100.0% 22 90.7% 54
94.1% 34 25.4% 130 18.5% 54 17.4% 46 11.9% 42
12.5% 64
rs150511 TSCAF 17 60.7917 32885775 forward MIT
CAACAACACAAAGGCCAAACAAGAAGGGGCTGACCAGGCAAAGGGAAATGTGTTAACACAATAGAATAACACTGT
GCTACTATACATGACTAATACGGGG[A/
G]GCGTGGTAGGTTCTGGAAACAGTTTTATGAAATATGCATAGTCATCATTAGTGTGCATATCCAAGGCCTTCCT
GGATATTGATAAAGAAGAGACTTTGGA A/G extended_map 0.195
0.025 0.137 0.004 90.3% 310 33.3% 300 51.7% 58
40.0% 80 95.5% 112 86.4% 66 92.5% 40 85.9% 92
92.9% 42 35.1% 148 32.1% 78 31.1% 74
51.7% 58 40.0% 80
rs225265 TSCAF 17 62.8157 34107522 reverse MIT
ACCTACCATTACAGCAGTATGGCAGAGAAGTAGAGTGACATCCAATCACTGTATATACAAAAAGTCCAGAAACAG
AGAAACACACACACCCATCTTGGAT[A/
G]GCCAGGAGATAGAAGTAAGAAGAATAAGCCATCGTAGGAGGAAAGAATAAGAATTAAAGAATAAGCCAAAGTA
GGAGGTCTTTAACTGAAGTTCATGGAT A/G extended_map 0.093
0.011 0.054 0.045 0.0% 334 20.9% 302 10.7% 56
3.7% 80 0.0% 144 0.0% 60 0.0% 38 0.0% 92
0.0% 42 23.3% 150 18.9% 74 17.9% 78
10.7% 56 3.7% 80
rs1003645 AB_ASSAYS_ON_DEMAND 17 63.403 34485834
reverse MIT
CCTCAGTTTGTAACTTTTCTCCCCCTTGTTCCCTAGCTTCCTCACCAAGAAGGGGCGACGTTTCTGTGCCAACCC
CAGTGATAAGCAAGTTCAGGTTTGC[A/
G]TGAGAATGCTGAAGCTGGACACACGGATCAAGACCAGGAAGAATTGAACTTGTCAAGGTGAAGGGACACAAGT
TGCCAGCCACCAACTTTCTTGCCTCAA A/G 79 0.357 0.000
0.502 0.030 95.5% 198 19.9% 156 17.2% 58 38.5% 78
NA 0 95.5% 66 95.0% 40 95.7% 92
90.5% 42 NA 0 20.5% 78 19.2% 78 17.2% 58
38.5% 78
rs854466 TSCAF 17 63.464 34532465 forward MIT
TGCTTGCTCAGTCCATTCAAGTTGTTCTGAAGAAATAATTTCCTCAGTGAGTGGGTGATCAGGACTTGGTATGGC
CACAGGCTCCCTCACAAAAATGGAT[A/
G]TATCTGTGAACCATGGGCTGCCTATTTCTCTCCTGTAGAGTGGAAGGTGCTGATGCTCTTTCACAACTGCTCT
AACTATACGGATGTGATATAACTGATG A/G extended_map 0.133
0.001 0.250 0.003 48.3% 344 2.6% 302 0.0% 58

0.0% 80 51.4% 146 48.5% 66 47.5% 40 43.5% 92
54.8% 42 2.0% 150 3.9% 76 2.6% 76
0.0% 58 0.0% 80
CV1960437 AB_ASSAYS_ON_DEMAND 17 65.2116 35544099
forward LGD
AGCCATTTTTGATGATGGAGGATTTGTTAAGTTATTTGGTTTCTTGTCTCATTACTATTAGAATGGGCCGTGGAG
CTGGAGGGCTGGGATCCCAGAGTTC[A/
G]TGAATTGCGCTACTGATCCTATTATCTGTTAAATCTTGTTCTTAATGTCTTTTTGTGCCTGTCGAAGTCAGTT
AAGTATGTATTGAGAATGTCTGCAACT A/G 1,306 0.189 0.014
0.400 0.000 21.7% 198 82.7% 156 93.1% 58 85.0% 80
NA 0 18.2% 66 12.5% 40 28.3% 92
14.3% 42 NA 0 80.8% 78 84.6% 78 93.1% 58
85.0% 80
CV2544039 AB_ASSAYS_ON_DEMAND 17 65.391 35655960
forward LGD
TAAAAAGCTAAGCTCTCGATCAATGCTGTAAGCTCCCTGTACAATTAAATATCTTGAAATGGTTTTCTTTCTTTT
CTAGCCAGATTGCAGGGCCTCAGGG[A/
T]TTTTAGGAAAGCAAGTTGGTGTGTACACGTGTGTGAGTGTGTTTAAGAATATGCTACAGAGAGAAAAGTCATT
CTTTTCTAGAATTCTACATTAGGAAAT A/T extended_map 0.277
0.186 0.054 0.045 16.7% 198 89.0% 154 41.4% 58
68.8% 80 NA 0 12.1% 66 25.0% 40 16.3% 92
26.2% 42 NA 0 87.2% 78 90.8% 76
41.4% 58 68.8% 80
rs895245 TSCAF 17 65.4309 35688037 forward MIT
GATTCAAGACCATTTGCTATAAGACCAAAAATCTCTCTATAAGCAGCAAATCATGAAGTGATCAGGTATGCTGAA
GGATAAACTGGGGCAAAGGGGTGGT[A/
G]CTGTCAGTGGAAGGAAAAGAAACAGCCAAAAAGAGGCTGAATATAGGCCAGAAATAACACTGGAAGACATCTC
TTTACTGAGGTACAGGGCTCAGTGGAG A/G 921 0.231 0.174
0.035 0.026 79.1% 326 12.6% 302 58.9% 56 27.5% 80
78.9% 128 84.8% 66 72.5% 40 78.3% 92
73.8% 42 14.2% 148 12.8% 78 9.2% 76 58.9% 56
27.5% 80
rs739753 AB_ASSAYS_ON_DEMAND 17 66.1183 36239827
reverse MIT
GTTGACATTTCCAGATAACTTCATCACCAACTTGACGTTTGGTTAAAAAAAAAAACAAAAAAACAAAAAAAACCTG
CCAATAATTGGTAACGTTTTTGTTC[T/
A]TCTGTATGGTATATGGCAAATCTCAGTGGTAAACCAAGGCTGAGTCAGGAAGGAGAGGCCTGAGGAGAAGAGA
AAGGCTTCACTGGAGAGAGTCTTTGTC T/A 483 0.293 0.014
0.545 0.042 89.4% 340 17.3% 306 6.9% 58 38.8% 80
93.8% 146 86.4% 66 87.5% 40 85.2% 88
71.4% 42 15.3% 150 19.2% 78 19.2% 78 6.9% 58
38.8% 80
CV11616360 AB_ASSAYS_ON_DEMAND 17 66.9279 36954092
forward LGD
ATTCTTCTCACAGGATTCCTGGGAGACCTGACACCAGGGATGAGTGGGAACTGGCATCATCTTGAGTGGACCATT
GCCCCACCCTCCATCATTAAATATG[C/

G]TCAGTGAGGTTCACTCTATGGGATGTCTGGGGCTGTGGCCAGCGCCTGTGCCCCACCCTCTCCCTCCTTTCTC
TGACGTTTGCTAGTAGAGGGCTTTGAG C/G extended_map 0.092
0.186 0.559 0.002 16.2% 198 56.6% 152 98.3% 58
62.5% 80 NA 0 12.1% 66 20.0% 40 17.4% 92
14.3% 42 NA 0 60.3% 78 52.7% 74
98.3% 58 62.5% 80
rs907094 AB_ASSAYS_ON_DEMAND 17 68.2733 38165334
reverse MIT
GCGAGAAGACAGGGAGGCCCCTGTGGTGTCACTACAGTTTGCGTGTATGAGACACTGAACTAGAAGGGGACGTCC
TCGTATACTCAAGGAGGACCCACAG[C/
T]TAATCCACATGTCACAGGCCCCTCAGCTTACCAGACTGCCTGATGACCTTCAGGACTTCAGCCTGGCTGTCCT
CTTCTTCTTCCTCTTCTTCATCATCCT C/T extended_map 0.148
0.031 0.091 0.071 23.6% 330 77.7% 300 58.6% 58
47.5% 80 20.1% 134 25.8% 66 20.0% 40 28.9% 90
23.8% 42 79.5% 146 77.6% 76 74.4% 78
58.6% 58 47.5% 80
rs916926 AB_ASSAYS_ON_DEMAND 17 69.4435 39403448
reverse MIT
CTCATTTTTTTCTTAATTTTCTTCCAAGTCACGCTAGCTAGTAAGTTGCATTTAAAGATGTTAAGAATATTTAAA
AGTGAATTCTTTTTCACCTACTGAG[A/
T]CACATTCCAGAATAGTCTGAAACTTTGACATGCAAATACCAGACTGTGAATCTGATTAATAAGAAACCTATGC
AGATGGGTTTGTAACTGATTAGGCCTG A/T 2,143 0.065 0.118
0.002 0.163 87.8% 336 56.7% 298 92.6% 54 96.3% 80
86.1% 144 89.4% 66 89.5% 38 88.6% 88
80.0% 40 54.7% 150 56.9% 72 60.5% 76 92.6% 54
96.3% 80
rs743686 TSCAF 17 69.9997 40010409 forward MIT
GCAGGGAGGCAGCTGGTGGCCCTGTAGCTGCTTCTGCCCAGACCCACTGAGCAGGCAGAGAAACTTCTGGCCACA
GGGGAGAGACTTGGAAGCTTGCAAG[A/
G]GCTGCTGGAGTACATTGCGGACACACGAGTGGAGCCCCCACTGGCCCCTCCTGGGCTCTTGAGAGACCCAGAA
GAGAAGCCGGCCTTGAGGCATTTGGAA A/G extended_map 0.039 NA
NA NA 71.8% 142 43.6% 156 NA 0 NA
0 71.8% 142 NA 0 NA 0 NA 0
NA 0 43.6% 156 NA 0 NA 0 NA
0 NA 0
rs730086 TSCAF 17 70.7101 40644922 reverse MIT
GAGAGAGAGAGGAGAAGGAGAACCTTGTCCCTGGCCAGGGAGCATCTTCCTTTGTCTAAGAAGGCCCTGCGGGCT
GCTCACACCTCATTCCTGGTTTTAT[C/
T]CCCCACCCACCCCTTCTCAGGGTGTGCTGAACTTTGTGCAGTACAAGTTTAGTCACCTGGCTCCCCGGGAGCG
GCAGACGATGTTCGAGCTCTCAAAGAT C/T 1,543 0.227 0.153
0.755 0.027 93.3% 342 33.9% 310 0.0% 58 16.3% 80
93.2% 146 93.9% 66 94.7% 38 92.4% 92
95.2% 42 34.4% 154 30.8% 78 35.9% 78 0.0% 58
16.3% 80
rs650558 AB_ASSAYS_ON_DEMAND 17 71.247 41094207
forward MIT

AGAGGAGGGACGCCATCAAGGTGAACAGGGAGGCCTGTGCCTCAGCCAGTGCGGGAGGGCCCTGCATAGTTTAGC
TTCCCTGTGCCCTGACCCACTCAGA[C/
T]AGTCCCAGGCACCCTAGGGGGTGGGCAGGTAGTATAGTCCCAGGCACAAACACCTCCCTTGCAGCCTTCCCAC
CCCATTGAGTTTGTGAGCATAGAACTT C/T 2,018 0.128 NA NA
NA 0.0% 134 29.9% 144 NA 0 NA 0
0.0% 134 NA 0 NA 0 NA 0 NA
0 29.9% 144 NA 0 NA 0 NA 0
NA 0
rs324075 AB_ASSAYS_ON_DEMAND 17 71.4241 41399688
forward LGD
GGGCCAGGGTGTGAGGGATGGGGAGCAGCTGGGCACTGGGCCGGCAGCCTGGTTCCCTCTTCCCTGTGCCAGGAC
TCTCTTCCCTCCACTGCCCTCCTTC[A/
G]CATCCCCCTCTGAGCCAGGAGCCTCCTGACCCTGTGATGCCTGACACAGGGGACAGTCAGCTTTGTTGATGCC
AGCTGTGCTGAGTTCCCATCCAGAGAG A/G 34 0.411 0.013
0.398 0.000 98.5% 196 21.2% 156 32.8% 58 21.2% 80
NA 0 100.0% 66 100.0% 40 96.7% 90
100.0% 42 NA 0 20.5% 78 21.8% 78 32.8% 58
21.2% 80
rs915945 TSCAF 17 71.513 41553029 reverse MIT
CCCTCAGGACTCTCCCACATGAGGAAGGAGGTGAGAATGCTAGGCTTGGTTTGAGAGCAGGATGGGGTGAGAGAG
AAGCAGCGGGGAGGAGAGGGCTGGC[A/
G]TGGGCCTGTGGACTCTTCTCCCTCAGTGGCTATGAAGGGTCTGCCAGCCTGGAAACTTCCCATTCCCACTCGC
CTTTCCCATACTCTCTCCTGGGAACAA A/G extended_map 0.047 NA
NA NA 93.1% 130 70.4% 108 NA 0 NA
0 93.1% 130 NA 0 NA 0 NA 0
NA 0 70.4% 108 NA 0 NA 0 NA
0 NA 0
rs799912 AB_ASSAYS_ON_DEMAND 17 71.5578 41630299
forward LGD
TAAAATAAGAAAAGACATGTAAACAAATAAAAATAAGATGCAGCAACAGTAGAAAACCTCTATAATCAATACATC
ATTGACATCTGTATAAACCGTGTGA[C/
T]GGCAGTGATTTAGTAACTTTTTGTCATTCATTTAAGCCTACCAAATGCCTAAAATTATCTGATATAATACTGC
CCTAAATCCACAGCAGATATAATGCAT C/T 1,143 0.225 0.006
0.240 0.022 9.6% 198 71.8% 156 63.8% 58 55.0% 80
NA 0 9.1% 66 5.0% 40 12.0% 92
14.3% 42 NA 0 74.4% 78 69.2% 78 63.8% 58
55.0% 80
rs2061873 AB_ASSAYS_ON_DEMAND 17 71.7317 41930100
forward MIT
TGCAGTAATGCCCTGTCCCAGAGAATGCAGGCTCCACGTGGGCTCCTTCCTACTGTAATTGCCCCCATTACACCC
ACATCCATCCCCTCACAGACTGGTT[C/
T]ATGTGCCAGACTCAGCCAGCGGGTGGAGCTTCTCCCGGGAAGCCACACCTCCACCTCCCCAACACGCAGCACC
CCAGCCTCGCTCTGACAGGCTCTTCCT C/T extended_map 0.116
0.023 0.075 0.015 32.8% 198 81.3% 150 65.5% 58
68.8% 80 NA 0 33.3% 66 25.0% 40 35.9% 92
31.0% 42 NA 0 79.2% 72 83.3% 78

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65.5%   58      68.8%   80
rs13726 AB_ASSAYS_ON_DEMAND     17      72.5451 42714726        reverse MIT

CATCTCCTCAGCTGTCCAGGGACTAGGGTATGAAGGGACAAGAAAACCAGGCCCAATATCCTCTAAAATTAAGCT
GAGGCAGGAGAGGGACACCCAAGGC[A/
G]AGGGTGACAGGCCTTTCTTGTTGGCTGGAGAGCCAGTCTCCGGCCGGATTCTGGTGCCAACGGCAAAGGAAGG
CCCAAAGTGAGGGCAGCGCAGAGATGA     A/G             2,036   0.113   NA      NA
        NA      19.4%   134     66.0%   156     NA      0       NA      0
        19.4%   134     NA      0       NA      0       NA      0       NA
        0       66.0%   156     NA      0       NA      0       NA      0
        NA      0
rs894685        AB_ASSAYS_ON_DEMAND     17      72.7673 43530204
reverse MIT
CCAAGTCTCCCCAAACAACAGGGAATCCCCCCTGGGACCAGGAGCTCTGTGGCCCAGCAGCCCTCCATCCCCGCC
CTGGCCAGGGTCAGGGATAGGGGTA[C/
T]ACAGATGGACAGACAGGCAAGGTGCAGGCCTGTGCATGGGAGCAAGGCTGCCAGGACAGAGCAGCCAAGTTCT
CCTGCCCTGACACATGCTTGGTCAGCC     C/T             338     0.413   0.069
0.241   0.004   0.5%    198     75.3%   154     44.8%   58      68.8%   80
        NA      0       0.0%    66      0.0%    40      1.1%    92
0.0%    40      NA      0       80.3%   76      70.5%   78      44.8%   58
        68.8%   80
rs701984        TSCAF   17      74.1129 46376118        reverse MIT
GGACTCGTAGCCAGCCTGTTTAGCCAGCCCTGCGCATAAATACACTCTGCGTTATTGGCTGTGCTCTCCTCAATG
GGACATGTGGAAGAACTTGGGGTCG[A/
G]GGAGTGTGTTTGTCACTTGGTTTTCACTAGTAATGATATTGTCAGGTATAGGGCCACTTGGAGATGCAGAGGA
TTCCATTTCAGATGTCAGTCACCGGCT     A/G             1,990   0.153   0.005
0.133   0.020   99.1%   332     63.1%   298     71.4%   56      46.3%   80
        99.3%   138     96.8%   62      100.0%  40      100.0%  92
95.2%   42      67.8%   146     65.8%   76      51.3%   76      71.4%   56
        46.3%   80
rs736387        TSCAF   17      74.32   46534006        forward MIT
ACTGTGGAGCCCCAAGTTGAGGACTTTTCCCCTTTGCTTCTGGTGATAAAGAGGACCCCACATCTACAAATGGTT
CAGTAAGGGGCTCTGGGATGGCTAC[A/
G]TGTGGGCCCCTTTCCATAACCAGGCCCAGGCCGCCCGACTCAGGCCAGAAGCCCTGGGGGAGCGGTCAAGCAG
CAGCCTTGTTGGAGCCAGCAAAGCTGC     A/G             extended_map    0.085   NA
        NA      NA      98.6%   140     73.2%   142     NA      0       NA
        0       98.6%   140     NA      0       NA      0       NA      0
        NA      0       73.2%   142     NA      0       NA      0       NA
        0       NA      0
rs890435        TSCAF   17      74.339  47194037        reverse MIT
ACCGAGTGAGCATCTTCTTCCCAATTTGCTGCTCAGAGAGGGAGTGGGTCCTAGTCTCTGGATCTCAGCGCTCAC
GACTACCTCGCTGCTCCTAACGAAC[A/
G]GTTCATCTGCTCTCTCCTGGCCGCCTGCGCCAGCGCCGCTCACCCACTTTTCCAGCCCTGGATCTCCTCTCCC
CGGATGCGTCCTTCCTTCCCACAATTA     A/G             1,900   0.146   NA      NA
        NA      85.2%   142     33.3%   108     NA      0       NA      0
        85.2%   142     NA      0       NA      0       NA      0       NA
```

0 33.3% 108 NA 0 NA 0 NA 0
NA 0
rs271653 TSCAF 17 75.7699 48480518 forward MIT
TGAGACACCCCCCAGCAAAGGGGAAGAATGCCCCCCTGCTTACAGACTGGGAAACTGAGGTCCAAAGAGGGAAAT
GGTTTGTCCAATTGGGATCACACAG[C/
T]GCAGAGGGAAAAGCAGAGAATCTGGAGAACACAGTCAGTGAAATTAGGACTCCCGAGGGAAAGGGGCAGGCTA
GGGAGTGGGGAGTGGATGAGAAGTGCA C/T 2,131 0.122 NA NA
NA 70.1% 134 20.3% 148 NA 0 NA 0
70.1% 134 NA 0 NA 0 NA 0 NA
0 20.3% 148 NA 0 NA 0 NA 0
NA 0
rs1969513 TSCAF 17 76.8119 48831938 reverse MIT
ACCCCATTTCCAGGCTGTTTGGCACACAGAGACATCAAAAAACAGACAGCCAATACATCTAGAACAAGCCTCTCT
CCGAGGGCGGCCCATGGATGGACTG[G/
T]CCTCCCAGACCTCCCAGGTGGCTCATCAGTGGTGGGATTGCGGCGCAGCGACCCCATCACCGCACCCCTCAGC
AGTGCCTGGGCTCACCTCTCCACCCAC G/T 1,298 0.189 0.155
0.024 0.061 25.7% 334 86.5% 304 42.9% 56 61.3% 80
23.6% 140 25.8% 66 16.7% 36 32.6% 92
35.7% 42 85.3% 156 89.7% 78 85.7% 70 42.9% 56
61.3% 80
rs739924 TSCAF 17 77.6252 49106245 forward MIT
TTCTCTGTCCCGTCCCCCAAGTGGCCCTGGATACAGTCCTGGGCAGGGTCCTGGGACTCAGTGACCTGCCCTTAC
CCCCACCCCCTGCCTCCCTATGTGC[C/
T]GTAGACCAGGATGGAGCAGAGCCCAGCGCCAATTCCGTGTCAGCCCACAACCTGCTCCGGCTGCATGGCTTCA
CGGGCCACAAGGACTGGATGGACAAGT C/T 1,632 0.173 0.051
0.084 0.020 20.6% 326 78.5% 302 53.4% 58 91.2% 80
17.9% 134 15.6% 64 27.8% 36 25.0% 92
21.4% 42 77.0% 148 79.5% 78 80.3% 76 53.4% 58
91.2% 80
rs1263949 TSCAF 17 78.76 50306174 forward MIT
TCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGTCACCACTCCCAGCCACAGCTG
GTTATTTAACAATGTAATATTACAG[A/
C]ATTTTCTTCAAGAGGTGGGTTGAGAGTGTAGGAGCCTCACAGTAGTTTGGAGCTCAGGATGTTTAGGATTACT
TACTGTTTACTCAGGGTTCTCTAGAGA A/C extended_map 0.085 NA
NA NA 87.7% 138 50.7% 150 NA 0 NA
0 87.7% 138 NA 0 NA 0 NA 0
NA 0 50.7% 150 NA 0 NA 0 NA
0 NA 0
rs767325 TSCAF 17 78.9023 50380282 reverse MIT
TTGCATACAGTTATGTGCACAGGAGCAGGAAGAATGGGCAAGAGAATATCCAGACTAGCTAGGACATGTGGGAGA
CTTCAGAGAGAAGACTGGGTGCAGA[G/
T]AGATGTTCTGAGTTTGAAGAGGCCAAGGCTGTATATAACCTCCACGAAAACCACTGTCTGCAGTGCCCAGCCA
TAGGCCACCCCCTTAGACCTCCTAACT G/T extended_map 0.107
0.095 0.005 0.052 6.4% 330 43.2% 308 10.3% 58
17.9% 78 6.1% 132 3.0% 66 2.5% 40 10.9% 92
0.0% 42 47.4% 156 46.2% 78 31.1% 74

10.3%	58	17.9%	78
rs1910211	AB_ASSAYS_ON_DEMAND	17	79.7691	51997718
forward	LGD
TTGTTTTTACTCCAGCCAAATAGACACTACACAAAGGATAAAAACTCACCATAGAGAATTAAAATGAAAGCATTA
GAAATATCCTTTCCTTTCCCACCTT[G/
T]TCTAGCGATAGTGACAAAGAGTAGGAATAATCTAATGGAGATTAAGGGTGTCAGGTTTTATCATTCCAGAAAG
AGTACAGGACACACTTATGGCAAAGAA	G/T	696	0.265	0.053
0.629	0.059	85.9%	198	15.6%	154	0.0%	58	0.0%	80
	NA	0	87.9%	66	87.5%	40	83.7%	92
69.0%	42	NA	0	11.8%	76	19.2%	78	0.0%	58
	0.0%	80
rs1508019	TSCAF	17	80.1977	52769654	reverse	MIT
CCTCAACTTCCTTTCAGGAAAAAATCCTAGATTGGCCTTTTGCACGTAGAGGTTGAGGCATCCATTCTTTTGTAC
ATAGAGGCCTTTGTAAAGAATGGGC[A/
C]ACTATTCTATGGCATAGGTAAAATGCTTATGCTGAAGCTGCATCAGATATTGCTATACTGTAGGTCCTATATT
GGGAACAAGGTGGCACCTCTGTAGTTG	A/C	1,135	0.208	0.000
0.325	0.000	65.1%	332	3.9%	310	3.4%	58	2.5%	80
	60.7%	140	75.8%	66	47.4%	38	71.6%	88
65.8%	38	2.6%	154	7.7%	78	2.6%	78	3.4%	58
	2.5%	80
rs1506591	AB_ASSAYS_ON_DEMAND	17	82.3766	54186231
reverse	MIT
AATTTTGGTAAACAGAAACTCTAACTCTACATTGGACAGAGATTCAACCTATTACCTCACCTTTGAAAATAAAAT
AAAAACATCTCTTTCCTCAGGCATA[C/
G]AAATTTGCAAGGTACAAATGTCTTTATAACTGCCATCAAGTATAACACTCAGCCTAATCCCCACGATACAAAA
TAAGTAAACTGGGGTTCATTCAGGCTA	C/G	1,401	0.216	0.024
0.212	0.005	66.9%	308	4.2%	312	13.8%	58	7.7%	78
	75.7%	140	54.0%	50	58.8%	34	63.1%	84
63.9%	36	4.5%	156	3.8%	78	3.8%	78	13.8%	58
	7.7%	78
rs3760281	AB_ASSAYS_ON_DEMAND	17	82.6329	54276849
forward	LGD
TGCAAACATTGAACGTCTAGAGAGAGGACAATGGCAGCTTTTTTCATAGTAAGCCCTTGACTGAGTCTATAATGA
GGCGCAGTGAGTGTGTCTGTGTCCT[A/
G]GGAGCACAAATCTGTCATCACTTCCAATACCAAAGCTTTCTTCAACCTTGTCAGGCTCAGGTGCCTCATTCAC
ACCAATGCTCCTCCACAGGGTGTGTGC	A/G	extended_map	0.354
0.236	0.066	0.088	90.2%	194	10.9%	156	65.5%	58
41.2%	80	NA	0	89.4%	66	94.7%	38	88.9%	90
	92.9%	42	NA	0	14.1%	78	7.7%	78
65.5%	58	41.2%	80
rs2033108	TSCAF	17	82.6941	54298510	forward	MIT
ACTTTTAGAATAGTTTCTTTCATATTGAATTGTTTTAGTAGTTATTCTGAGGAATTTTCCACTTACTGGATTTGT
CTGATTGGGGTCTTATGACTAGTTA[C/
T]AAGTTAGATATTTTGGCAAAAATGTTTAGGTGATATTATAAACTTATTGCATCATGTCATGGAGGCTGTGATG
TCAGTTGTCCCACTATTTGTGATGCAA	C/T	extended_map	0.158
0.001	0.208	0.000	25.9%	344	81.9%	304	79.3%	58

83.8%	80	24.7%	146	27.3%	66	30.0%	40	25.0%	92
	14.3%	42	78.9%	152	82.9%	76	86.8%	76
79.3%	58	83.8%	80
rs8082034	AB_ASSAYS_ON_DEMAND	17	82.8149	54341213
forward LGD
ATGTATGTAATCACTTGGCATATTTAAAATGCACCCTTCCCCACTTCCATGACTTTATCCATCTATCTACCTCAC
ACATCACCATTATTTCCTTTCTTAC[A/
G]AATCAGAATTAAGTGGTGAGTACCCATTTATGCTTTTCTCTTTCCTCTTTGAAAAATAAAATTCTCAGAAACT
CAGATCCTTAATGTGTTATTGGATAGT	A/G	23	0.437	0.006
0.490	0.001	97.0%	198	14.1%	156	20.7%	58	15.8%	76
	NA	0	98.5%	66	100.0%	40	94.6%	92
92.9%	42	NA	0	15.4%	78	12.8%	78	20.7%	58
	15.8%	76
rs766259	TSCAF	17	83.0041	54408081	reverse MIT
TAACCAAATGAGAGTTTATTCCAAGAATGCAAGTCAATCAGGTGTCTATTGAGGCAATAATATTGTGTGACAAAC
TACCCTTAATCTCAGTTGTTCAAAG[A/
C]CATAACCATTTGTTTCAACTTCAAGTCTGTAAGTGGGTTTTTTAGTTCTCTGGACTTGGCTGGCTTCTTCAAA
TATCTAAAGACAGCTGAGGGGAGTGTA	A/C	extended_map	0.09	NA
	NA	NA	55.2%	134	13.5%	156	NA	0	NA
	0	55.2%	134	NA	0	NA	0	NA	0
	NA	0	13.5%	156	NA	0	NA	0	NA
	0	NA	0
rs879768	TSCAF	17	83.1188	54448650	forward MIT
TGTATATGTGGTGACAACGTCTGAGCTCAATGTCCTCATCTGAAAAAAAATGGGGATAGTAATATTTGTTTTACA
AAGTTGTCGTAAATGAATTGGAAAG[A/
T]AGAATGTGCTAAGCCCCTATTTGCCTGGTCCTTTAAGTATTATTCCAAAAAATTATTTATAATACCCTATACA
TTCTGAAATAGTATCTCAATTTTCTAG	A/T	2,115	0.05	NA	NA
	NA	68.1%	144	94.1%	152	NA	0	NA	0
	68.1%	144	NA	0	NA	0	NA	0	NA
	0	94.1%	152	NA	0	NA	0	NA	0
	NA	0
CV7958240	AB_ASSAYS_ON_DEMAND	17	84.8787	55070864
forward LGD
CTCCAGATGGCCAGCAGTTTTCAGAGTGTCATGATATCTTGCCCAGTGATTGGGTACCACTGAATTGACATGCAG
ATCACTCAGCTCAGCCACACCCACT[A/
G]AATACCCAGAAAACCTGCAAAAGTCTCGTCCTCGTGCCCAGTATGGCTGCTTTTGCACACACCATTTTCCTCA
TCCAGCTTTAATAACTGCAATTTTCTA	A/G	1,591	0.291	0.000
0.382	0.000	98.5%	194	37.0%	154	34.5%	58	38.5%	78
	NA	0	100.0%	66	100.0%	38	96.7%	90
100.0%	42	NA	0	32.9%	76	41.0%	78	34.5%	58
	38.5%	78
rs1019117	TSCAF	17	85.3083	55222767	reverse MIT
CTAAGCCACCTGTGCCTAGCCACTTTTCTACAGCCTAAGAAGAGCCCTCTAGCTAAGCTAGTACTGTGTTAGAAA
TTGGTTTATCTATTAATCTATTACA[C/
T]CAACTCTTCTCTTGCAAAAGGCAGGGCTATGATAGATTGGGATGGAGACTGGTACATTTTGAATGAGGAAGCT
AGAGAAGATCTACAGCATGAGGCTGTG	C/T	1,022	0.247	0.004

0.451 0.006 71.2% 330 3.9% 306 0.0% 58 7.5% 80
76.9% 134 71.2% 66 76.3% 38 60.9% 92
81.0% 42 5.8% 156 4.1% 74 0.0% 76 0.0% 58
7.5% 80
rs1024819 TSCAF 17 87.4794 56081909 forward MIT
CAGTGAAGAGTCCAGAGTCAAGCAGGTAGAGGTGACCATCCATTGAAGATCTTTATTCACGGAGAGTCCCAGTAG
CACAAAGAGTTCCAGTACTGGATAG[C/
T]TGAAAAACCATTTCCTTCTGGCCTAGGAACTCCTGTTTAGTTATGCAGCCATCCCTGACACACATATTCAGAT
GTACCTCTCTAATCCTGCCTTTCTGGG C/T 1,992 0.106 NA NA
NA 11.3% 142 52.7% 148 NA 0 NA 0
11.3% 142 NA 0 NA 0 NA 0 NA
0 52.7% 148 NA 0 NA 0 NA 0
NA 0
rs1017528 AB_ASSAYS_ON_DEMAND 17 87.8238 56487189
forward LGD
AAAGGCTATTCAAGTGCCCGCAATCAGCTTTCTTACTAAAACTCACTGACTAATACACAAGAATGCAAACTGCCA
ATGTGTTTACCTTACATTTAATGAA[C/
T]GGTTTAGTGTTTTCTCTGAGATTTTACTTATTTGATATTCCATGACAACAGGATGAGCAATCCTTAAAGACCT
GCTTCAGGCAGCCCTGGCTGGCTTGCT C/T 1,814 0.164 0.057
0.480 0.069 80.3% 198 23.7% 156 3.4% 58 2.5% 80
NA 0 81.8% 66 85.0% 40 77.2% 92
88.1% 42 NA 0 28.2% 78 19.2% 78 3.4% 58
2.5% 80
rs345162 TSCAF 17 89.51 58723880 forward MIT
GGGGCTGCGGCAGCCTCTGATGATGGCCGTAGGTATCTCCTACTCCATTCTGGAGGCTCCCTGCTGATCCCTAAT
GTGGAAGTCCCCCTCTTCCTCCCCA[A/
G]TTTGTAATCCCAGTGGGCACTGAGGTTTGGCCATCAGCAGCAGAGGATCCTGCTACAGATAACTGAAGGGTGG
TACTGAAAAAACCATCAGATCAGCAGA A/G 111 0.329 0.005
0.391 0.006 10.2% 322 86.6% 298 81.0% 58 80.0% 80
10.5% 124 9.1% 66 10.0% 40 10.9% 92
12.5% 40 86.6% 142 83.3% 78 89.7% 78 81.0% 58
80.0% 80
rs729647 TSCAF 17 91.9447 61222297 reverse MIT
CACATTGGCCCACCTGTCTGCAGAGACCCATGAGGCTGCTGCTCAGGGACTGAGCCGCCCAGTCTGGGAACCAAC
CCACTGGGTTGACGTCAACACAGGC[A/
G]AGGCCTCCCAGTCACCTCCTCTCCAAACTCTCCCAGATCAATCCCGGTCCCCACCACAGGTCTTGGAAATGCT
AAAAAAACACAAAACTTTACAGGGCTG A/G HG16 and CeleraR27 positions are
more than 1Mb discrepant based on linear regression 2,038 0.069 NA
NA NA 81.7% 142 46.1% 154 NA 0 NA
0 81.7% 142 NA 0 NA 0 NA 0
NA 0 46.1% 154 NA 0 NA 0 NA
0 NA 0
rs887400 TSCAF 17 92.5145 61419211 forward MIT
CACTGGTCTCTATACCTTCTTACACCTCCTGTTCATTTCTCATTCCGTTTCCTATTTTCTCTGTTTTCTTGCAAT
TTATGTCTTTCATCCCAGCTCCCCA[A/
G]TTCCCACCCCCAGCCATTTTCCTGTTCCCACGCTACCAGGAGGTTCTCTTTCTTCTCTGCTACTATTTCCTTC

TCACATTTATCTTTCCTCCCCTCTCTT A/G HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression 1,265 0.175 0.064 0.498 0.007 7.3% 328 58.6% 304 86.2% 58 68.8% 80 7.6% 132 9.1% 66 7.5% 40 5.6% 90 2.4% 42 56.7% 150 61.8% 76 59.0% 78 86.2% 58 68.8% 80

rs1427463 AB_ASSAYS_ON_DEMAND 17 93.4456 63042683 reverse MIT_and_LGD

AGGCCCTTTGCTACCCGGGGACAGTGCCTTCAGGTTAGTTTCTGCAGAAACTCTACGCGAAATCTTGCAAGACAA AGAGCTGAGTAAGGAACAGCTAGTA[A/ G]CATTTCTTGAGAACGTATTAAAAACTTCTGGGAAACTACGGGAGAACCTTCTTCACGGTATGCTTCACGATTT CATGCTTCAAAACAGGTGTCGGGTGGA A/G HG16 and CeleraR27 positions are more than 1Mb discrepant based on linear regression extended_map 0.291 0.054 0.202 0.035 15.8% 342 89.2% 306 67.2% 58 100.0% 80 14.6% 144 7.6% 66 17.5% 40 22.8% 92 14.3% 42 90.7% 150 84.6% 78 91.0% 78 67.2% 58 100.0% 80

rs736892 AB_ASSAYS_ON_DEMAND 17 93.5706 63610034 forward MIT

GTTGTATTTTTTCTCAGCCTCCAAAAAAGACCTATGGGCTGCTGTTGACCAGCTGAGACCTCAGCTCCTCCAAAG TCAGAAGCTGGTACTGTCTTAAAGG[C/ G]ACACTGGCACTCCTAAAATCCTTCCACCTTGCTTACTGCGTCAGATAGGTTTAAGGGCAATCTGTATGTAACA CTCATCACAAGGCTTTGCCTGTAAATC C/G 1,032 0.2 0.004 0.306 0.002 55.7% 264 0.0% 292 0.0% 56 0.0% 74 55.9% 136 56.5% 46 58.3% 24 53.4% 58 58.8% 34 0.0% 150 0.0% 72 0.0% 70 0.0% 56 0.0% 74

rs718597 TSCAF 17 93.8354 63829899 reverse MIT

TTCGGGCTTCAAAGCCAAAGAAAAGGCAATTAAGTTTATGATGGAATTAGTCAGGAAACTGTAAACCTAGGATGT CGCCCCTGTACAGTAGATTCTTTTA[A/ G]CACCACCTCAGAACACACTGAACAGTCTGGTCTCTGGTTCCAAAATTGTCTTAAAAATAAATGTAGAGTCTAG ACAAAGTCACTTTGACCTTTCTGCCAC A/G 1,880 0.081 0.105 0.001 0.002 72.7% 326 32.2% 304 70.7% 58 37.5% 80 78.7% 136 64.1% 64 81.6% 38 65.9% 88 73.8% 42 33.8% 154 36.5% 74 25.0% 76 70.7% 58 37.5% 80

CV11876714 AB_ASSAYS_ON_DEMAND 17 95.2929 64890481 forward LGD

ATGGAAATTTCCTATTCGGCATTTTAGAAGGGAGTTTGAAGTGCTCCTAGGAGCCATTTTCCCAGCATGGTCTTT TCTGACCACCTAAGACCAAAATGAT[C/ T]ATTCAGTCTCTTAATTCCTTTAGCGGTAATTGTGCATGTACTATTTCTTGGCTTTATTTTTATGTTTTTTTGA CTATGCTGTTTAGCTTTTCCAATAGAA C/T 638 0.236 0.063 0.106 0.048 5.1% 198 64.5% 152 34.5% 58 38.5% 78 NA 0 3.0% 66 5.0% 40 6.5% 92 7.1% 42 NA 0 62.8% 78 66.2% 74 34.5% 58 38.5% 78

CV2183125 AB_ASSAYS_ON_DEMAND 17 98.9754 66911950
forward LGD
ATTTGCTTGAACTGTCTGCCAGGCTGACTCAGAGGTGCAGGTGACAGCACACTGTAATCATGTTTACTTATGTAC
GTTGATTTGCAATATGTTAACTTTG[C/
T]GCCTTGATCTCATTTCTTCTCTGCTTTCCCCCTTCTCTACCCCTGGTTTAATTTTGAGTCAAGTCAATGCTGC
TGCTGCTAGGAGTTACGGGCAGTGGCT C/T 147 0.313 0.000
0.429 0.042 3.2% 186 71.3% 150 74.1% 58 47.4% 78
NA 0 1.7% 60 0.0% 36 5.6% 90
2.4% 42 NA 0 73.7% 76 68.9% 74 74.1% 58
47.4% 78
rs2058128 AB_ASSAYS_ON_DEMAND 17 100.11 67706616
forward MIT
GGGTACTGAAAAGGATCACATGATCTGCTCTACGCTCTCTCAGGAGGCTCCACACTTGATCTCTGGAAAAGGGAT
CCAATCCAGTAGTTGGTTCATCTAA[A/
G]AGCAAAATCTACAGAGAATGAAGATATATAAAATATGTCTCTCTTTCACATTAACTGTATCCAGAAGATAGCA
TGAAAAACAATAAATACCATAAAATAA A/G 1,267 0.177 0.002
0.278 0.001 52.0% 198 0.0% 154 0.0% 58 0.0% 80
NA 0 48.5% 66 42.5% 40 58.7% 92
45.2% 42 NA 0 0.0% 76 0.0% 78 0.0% 58
0.0% 80
rs739549 TSCAF 17 101.722 68486597 reverse MIT
GAGTTGATAAAACACACCTTGAGGATTTTTACCAGTTGGGAGAGCCCAAAAATTACTCATAATTTTATTACTTAC
AACCTCATCCCTGAAAACAAAAAGG[A/
G]AAGATGTGCTCTCCACACTATTAACAGACGGGCTAAGTGTCATTGTGTAGCCCAAGCAAAAGTTGTTTACCTC
TTAGTGCCTCAGATTTAAGTTTTTATT A/G extended_map 0.092
0.001 0.164 0.023 43.5% 324 85.7% 300 88.9% 54
71.4% 70 39.4% 132 48.4% 62 35.0% 40 50.0% 90
37.5% 40 80.8% 156 91.9% 74 90.0% 70
88.9% 54 71.4% 70
rs993242 TSCAF 17 102.3177 68763697 reverse MIT

TTTATCCTAGTGATCATCCTATGATATCCTTACCCAGACACAGACATTAAACTGCCCATTCCCTATCCCTATTTT
TTTTCCAATTGTCATGATGAATCCA[C/
T]GCTATGATGCAATCTTTTTGCAGAATCAAGTCGTTTTGACTATTTTGCTTTCCTAAAACCACACTGTCTTCAA
GCCAGGTATTAATACCATTATTACTGA C/T 2,022 0.077 0.004
0.110 0.002 26.6% 334 0.0% 306 0.0% 58 0.0% 76
29.9% 144 19.4% 62 28.9% 38 25.6% 90
11.9% 42 0.0% 152 0.0% 78 0.0% 76 0.0% 58
0.0% 76
rs350616 TSCAF 17 103.13 69153227 reverse MIT
AAAGGCAGTATTATAGCTAAATCATTACATTAAAAAAACTTTTAAAGAGGCTTTTCAGTTCAGGGAAGAGCATAG
AATATTAGCCTAACATATGAATCAG[C/
T]TGTTCCAATTCTTTTATTTTAGAGATGAGGGAACTCAAGCCTGCAATAATATATTCGGCATCACCCTGGAAGT
TGCTGGTGTTGCTTTTCGCACTCAGCT C/T 2,063 0.06 NA NA
NA 80.4% 138 47.3% 146 NA 0 NA 0
80.4% 138 NA 0 NA 0 NA 0 NA

0 47.3% 146 NA 0 NA 0 NA 0
NA 0
rs1859860 AB_ASSAYS_ON_DEMAND 17 103.6231 69472084
forward MIT
GCCTTTGTCAGGCCCAGTATTCTACCAGTATTTACCCAGATCTTGGACAATGGTCTCACGTGGGTGAGCAGCTTT
TGATCTTTGCTTATCCTGGAAGAGA[G/
T]CTTCCAGTAATATTTAGTTCCTTCACATTTCTGTGCATGTACAGATAGAAGACGCCTGTAATTTATATTATTA
TTGTTGTTGTTGTTATTATTTTGGCAG G/T 2,147 0.059 NA NA
NA 6.7% 104 33.1% 154 NA 0 NA 0
6.7% 104 NA 0 NA 0 NA 0 NA
0 33.1% 154 NA 0 NA 0 NA 0
NA 0
rs724856 TSCAF 17 104.1449 69861967 forward MIT

GATTGAACCAGTTCCAGCTTCATCCTGAGTGATTCGGAGGATGTGACTCCATAGCAGCCTGTGGCCTAATTTCCT
GCCACACAGACACTGATGTGGGGAG[C/
T]GGGAGGCCAGGTGAGTTTCTATTTCCAGTCCTTGGGTTGCCCTGCATTTTACAGATCTTCCTTTGCACTGGAA
TAACTTCTTGAACACTCCACTCAAATG C/T 1,771 0.089 0.005
0.085 0.014 26.5% 332 68.8% 292 60.7% 56 55.1% 78
25.0% 144 32.8% 64 21.1% 38 26.7% 86
16.7% 42 68.4% 152 66.2% 68 72.2% 72 60.7% 56
55.1% 78
CV11874126 AB_ASSAYS_ON_DEMAND 17 104.6698 70224632
forward LGD
AGTATATGCTCAAAATGGGTGCAGTTTATGTAACTTATACATATTTAACTTATGCCCCAGTTGATAATTTCTTAT
CTTCTCCCAATACCAAAATACATAC[A/
C]CATCCACAAACTCTGCCTACACCACCCCTATCCATATGCTGTGTCTGTGGACTCTTTTCTTGGGTGAGTTCCT
TCCCAAGTGGTGCCTAAACAATTTAAG A/C 801 0.173 0.003
0.312 0.047 21.7% 198 80.1% 156 86.2% 58 56.2% 80
NA 0 21.2% 66 12.5% 40 26.1% 92
26.2% 42 NA 0 82.1% 78 78.2% 78 86.2% 58
56.2% 80
rs718073 TSCAF 17 106.23 71181388 reverse MIT
AATTGTGGTTTGCATAAGAATGAATTGCTTGCGGAACGCGTTATAAATGAATATTTTCAGCACCCACCCCCGTCC
AGCCCCTCACCTTCAGTGCTTGGGG[A/
G]TCTGCATTTTCAACAAGCCACCCAGGCCATTCTGACACAGGCACTTTAAGAAAACAGGAAGTTGACTGACTTC
TTGGCCAGATAAAGCCTTAATTGAACA A/G 1,497 0.108 0.001
0.148 0.127 62.7% 322 16.3% 300 17.9% 56 56.2% 80
62.5% 128 66.7% 66 60.5% 38 61.1% 90
64.3% 42 12.7% 150 14.9% 74 25.0% 76 17.9% 56
56.2% 80
CV2067650 AB_ASSAYS_ON_DEMAND 17 106.5033 71449745
forward LGD
CTTTAAATAACAGTAATATGATTAGCTAATTATTTACAGACACTGGTAATTTTCCTGTGATCCGCTTAGGTTTGT
CAATGAGACCTAGCTGGGAGTAGCA[A/
G]GTATTATTATACATCAGACAGACGTATCCACTTGGCCAAGTTGGAGTTTTAGCCTCAAATTTTAAAATTCCTT

TTTGAGATTCCTCAAGACATTATAGGG A/G 285 0.249 0.006
0.249 0.071 95.9% 196 35.9% 156 44.8% 58 67.5% 80
NA 0 100.0% 64 100.0% 40 91.3% 92
100.0% 42 NA 0 35.9% 78 35.9% 78 44.8% 58
67.5% 80
rs903104 AB_ASSAYS_ON_DEMAND 17 107.3963 71621825
reverse MIT
CACCACAAATGCCCAGAACCTCACTACTTGGCAGAAAGGTCAGCCTGACAGTAAACATCTGTTCTAGGAGATTTA
AAAAGAAATGAATTCTTGCTGTCGA[C/
T]GTGAGAGGGGGAATTTGTCTTAGAAGGTCTCATACATGGATGAGAATTACTTATGATTGCTACAGTCAGTGAA
TACAAATGTTGTTGAAAGAGTTGTGCT C/T 1,189 0.136 0.021
0.105 0.011 64.4% 180 12.7% 150 25.9% 58 21.8% 78
NA 0 68.8% 64 61.5% 26 62.2% 90
78.9% 38 NA 0 12.2% 74 13.2% 76 25.9% 58
21.8% 78
CV1875841 APPLERA_RESEQUENCING 17 113.0879 72943978
forward LGD
GCCTGGGACAGAGGAGCACGACCTGTGGCTGTACAGTGTGCCCTGCCCCCATGGCCTGAATGCCCTGTCTCTCTG
GGTGGGGCTGCGGCAGCTGGAAGCA[C/
T]GAGAAGTCCCGCCGGGCCCTCAAATGGCGGGAGGAGCAGCGAAAGGAGTGCTACGCTAAGGACGACAGCGAGA
AGGACTCAGACACAGGTGATGACCAAC C/T extended_map 0.249
0.002 0.312 0.000 85.1% 194 16.7% 150 20.7% 58
15.0% 80 NA 0 87.9% 66 89.5% 38 81.1% 90
81.0% 42 NA 0 24.3% 74 9.2% 76
20.7% 58 15.0% 80
rs749780 TSCAF 17 113.59 73296507 reverse MIT
CTGGACCCTGCCCAGCCCCACCTGCCTATGAGGCTCTGGAGTCTCCTAGAGACCAGGGAGACATGAGTGGTCCAG
GCTGCAGCCCCTTCCCATAGTAGCA[G/
T]TCCAGACCCCCGCCCAGGCTCAGAGCTGTGTGCAGGGCTGCGGGTGGGCTCATGGGCAGGGGCATCTGTGATC
TGGTTTATACACCAAGCATCAACTACA G/T 520 0.309 0.197
0.052 0.027 5.8% 328 76.2% 294 24.1% 54 58.1% 74
3.5% 144 11.7% 60 5.9% 34 5.6% 90
2.4% 42 75.0% 148 77.6% 76 77.1% 70 24.1% 54
58.1% 74
rs6501734 AB_ASSAYS_ON_DEMAND 17 113.59 73332752
forward LGD
CCGCACTACCCACAGCAACCCCGGGATGCCGATCTGCAGCCACATGTCCCATGTGGGAGGTTTCTGCTGAAAGAA
CTTCCAACTACACATCTCCCCACTT[C/
T]AGTATAAATTTCAACCTTCCCTAATTCATGCAACCTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTGTCGCT
CTGTCACCGAGGCTGGAGTTCAGTGAT C/T extended_map 0.116
0.016 0.100 0.082 53.5% 198 7.8% 154 17.2% 58
35.0% 80 NA 0 57.6% 66 65.0% 40 45.7% 92
69.0% 42 NA 0 10.5% 76 5.1% 78
17.2% 58 35.0% 80
rs745318 TSCAF 17 113.59 73360921 forward MIT
CCTAGGAGCTCCTGCCAGGGTACTTGGCAAGGGGGAGGGCCCTTGGACCCAGCCCTCAACCTTCTTTCACCTCAT

CTTTGGATCTAGAACTTTCCATCCA[C/
T]CTTCTTCTTTCAAGGCCCTCCTTTGCTGCTTCAGGGTTAGGGTTTCAGGATTCCTGGGGTCAAATCCTGGCAA
ACAGTCAGGTGGACCACATGAGATTCA C/T extended_map 0.169 NA
NA NA 2.1% 142 45.5% 154 NA 0 NA
0 2.1% 142 NA 0 NA 0 NA 0
NA 0 45.5% 154 NA 0 NA 0 NA
0 NA 0
rs1478785 TSCAF 17 113.6131 73819988 forward MIT

GGCTTTTCTCTGGGTGAGCTTAGGGACTTCCTGGAGGCTTGAGGGCTACCATATACATAACTGTTTCCATTTCAG
GGATGTTCATTTAAAATAACATCGC[A/
G]GGAAACTACTTTGACATTTAAAATCTAGAAAAAGCCAGCAAGCCTGTTTCTTGGCACCTAATGGACACCTTAT
GGGATGGCGTGTTCCAAGAGTCTCACT A/G 45 0.401 0.007
0.602 0.001 98.8% 326 24.3% 288 15.5% 58 20.0% 80
99.2% 132 100.0% 66 97.4% 38 97.8% 90
100.0% 42 17.9% 134 30.3% 76 29.5% 78 15.5% 58
20.0% 80
rs1868821 AB_ASSAYS_ON_DEMAND 17 115.1237 74746812
reverse MIT
TCTTCCTTTACCATAATTCAGGCCTCAGTTACATCTTCAGTTGGAAGAATGTTGTTTCCAGTAAGGCTAGAAGAG
AAGGAATGGCCCACAGAGCAAGGAC[A/
G]TAGGAGGAAGAAGGAGGGCAGGAAAGTCTCCCCCAAGCAGGGAACACTATGTGTTCCAGGAGCCAGACTCTTC
CCCCTGCTGCTCTGAGGCCCCTCCCTC A/G extended_map 0.087 NA
NA NA 32.8% 128 75.4% 142 NA 0 NA
0 32.8% 128 NA 0 NA 0 NA 0
NA 0 75.4% 142 NA 0 NA 0 NA
0 NA 0
CV3241728 AB_ASSAYS_ON_DEMAND 17 115.3472 75032097
forward LGD
GGAATGAAGATGTTTGTTCACACTTCCGGGTCATTTTGTGTGAGAAGTCAGCACCTCTAGCACTCCACGCCATGC
ATGCATAGGTGACGCCATGCACACC[A/
G]AGGGCACAGAGGACACAACTCATCTGCCCCATAAAATCCTCCTAACTGGCCTCCAGGCTTCCTAGCTCCCCAC
ATTCCACCTTGTAAACTGCCGCCAAAT A/G 1,207 0.225 0.001
0.281 0.021 90.4% 198 28.3% 152 31.0% 58 13.8% 80
NA 0 93.9% 66 97.5% 40 84.8% 92
95.2% 42 NA 0 31.6% 76 25.0% 76 31.0% 58
13.8% 80
rs717571 TSCAF 17 116.0888 75217946 reverse MIT

ACTCTACGTGTTGTAGAAAACTGATAATAATACAAATGATTGTTGTCCATGGAAAGGCAAATAAATTTTCTACAG
TGAAGATGCAACTAGTTGTTACTCC[A/
C]TGGATAGGGACCAGTTTTGCACATGGTCCCTTTCATTCTTCTATTCTCCCCATTAACCTGCTTTCTTTTTCAA
ACCCCCATGACGAGAATTGAGCTAAGC A/C 1,001 0.262 0.019
0.190 0.086 0.3% 340 52.3% 308 35.7% 56 18.8% 80
0.0% 146 0.0% 64 0.0% 40 1.1% 90
2.4% 42 51.9% 154 55.3% 76 50.0% 78 35.7% 56

18.8% 80
rs312895 AB_ASSAYS_ON_DEMAND 17 118.4691 76021167
forward LGD
TGCCCGACTTGCTATTTGGAGCTGTTCCCGCTTGCTCATCATGTGCAAGGTCCTGATCCACTCGGGTCTGTTTAA
CCAGCGCCCCTCCCCAGGCCCAGTT[A/
T]GCCTGGTTTTCGTTCGATTCATTTATTGTCATCAGTGCCATCCTTGCACCACGTAACTAGCCTTTGCAGCATG
CCAGCCACCAAGCTCAGGGCCCTCTGT A/T 1,681 0.182 0.004
0.258 0.154 57.6% 198 1.9% 154 3.6% 56 36.2% 80
NA 0 51.5% 66 70.0% 40 56.5% 92
55.0% 40 NA 0 1.3% 78 2.6% 76 3.6% 56
36.2% 80
rs2304925 AB_ASSAYS_ON_DEMAND 17 119.0826 76148790
forward LGD
TCAAATGACACCCACCAAGTGCCCATTAACTCATCAAAGTGGTGATTCCAAATTGATTATTTCGAGTGTAAGACA
TAATAACATGTTCATCATGGAAAAT[A/
C]ATTAGCGGTGGAGTGGGGCCGGGATGGCCTGCTGCCTGCCTGCCTGGCTCCCCCCTGCAGCCGAGAGGGAGGG
GTGGGTGGGCGCCAGGGCTTGATGTGG A/C 1,624 0.12 0.016
0.103 0.245 58.2% 194 10.4% 154 20.7% 58 65.8% 76
NA 0 59.7% 62 67.5% 40 53.3% 92
59.5% 42 NA 0 7.7% 78 13.2% 76 20.7% 58
65.8% 76
rs691225 APPLERA_RESEQUENCING 17 121.4679 77059893
forward MIT
CCAGCCCTTGGGCCTGTCCTTGTCCTCTGGGCTCTACACTCAGGCAGAGGTGGCCTCAGTGACTCACCGGAATCC
CCTCAGTCTCCTCCAGGAAGCGGGC[A/
G]CTGACGGACACCAGCGCATCTTCCGGCCACTCGTGGAACCAGTCGATGGCCGTGCAGTTGACCACAGCTGGGA
ACTTTCTGGCTCGTACCCGCAGCACGG A/G 1,271 0.106 0.000
0.176 0.003 67.0% 176 20.5% 156 17.9% 56 15.0% 80
NA 0 71.9% 64 63.6% 22 64.4% 90
77.5% 40 NA 0 15.4% 78 25.6% 78 17.9% 56
15.0% 80
rs4789908 AB_ASSAYS_ON_DEMAND 17 123.4956 77559178
forward LGD
CTCTGGAGATGCTGCAATTGAAATGCTTCGTGATGGCCATAAGGTGGAGGTGCACAGGACCAAAACAGGCAGGGA
GCTTGCAAAACCCTCACATGATCTG[C/
T]AGTGTTAGAAAAGCTCAAGATCCGGGATGGGCGCGGTGGCTCATGCCTGTAATCCCAAACACTCTGGGAGGCT
GAGGCAGGTGGATCACCTGAGGTCAGG C/T 284 0.251 0.038
0.153 0.020 3.6% 196 63.0% 154 39.7% 58 78.7% 80
NA 0 0.0% 66 0.0% 40 7.8% 90
4.8% 42 NA 0 73.1% 78 52.6% 76 39.7% 58
78.7% 80
rs1317421 TSCAF 17 124.0004 77675228 reverse MIT

TGAGGAAATGAGGTCCCAGGGGAGGCACTGGGCCGCTGGCCCTTGGACGAAAGCCACCACCCACCTTGTCTGTGT
CGAATCGGCCTCCGACCACGTTCCC[C/
T]CGAGCAAACACATCCACGCCCACGTACACATCAGCCCGGCGCTCCCCAGCCTGCCCCAGCATCCGCTCCAAGT

GCTCCTCCCGCCAGTTATAGTTAGTGA C/T 1,802 0.076 NA NA
NA 41.5% 142 80.8% 156 NA 0 NA 0
41.5% 142 NA 0 NA 0 NA 0 NA
0 80.8% 156 NA 0 NA 0 NA 0
NA 0
rs898523 TSCAF 17 124.8737 77861495 reverse MIT

ACTCAGACCCATGGGGAAGCCATCAAGAGGCAATGTCGGTCATGCCCAGGGGAGAACTTTTGAGTAGGGGCAGTT
TCTGGAATGAAATGGGAGGTGAGGC[A/
G]AGGTGGGCTGGGAAACACTGGGACGGTTACAGAGGCAACCTGAGGGTGGCCAGGGTCTGGCTAGATGGTCTGC
AACCCGCCAGTCCTGAGCAGATGCTCC A/G 1,475 0.12 0.002
0.188 0.001 60.6% 330 99.7% 310 100.0% 58 100.0% 80
60.3% 136 67.2% 64 63.2% 38 55.4% 92
59.5% 42 100.0% 156 98.7% 78 100.0% 76 100.0% 58
100.0% 80
rs906460 AB_ASSAYS_ON_DEMAND 17 128.1552 78330136
forward MIT
GGGGGCCACACGTGGGAGGCTGGAGGAGTGGAAGTAACCGAGATCAGCGATGGAGGCCCACACTCCAGAGGCCCA
CACTCCAGGCTAGGAGCCACTGAGG[A/
C]CACCACACAGAGCTCGCTCTCCAGGAAGGAGCGGCCAGGGGCCCCTGCCTCTGTCCCTACTCTTGATAAGGGT
GGAAAGGGGTTGTGGGGACAGAGTCTT A/C maps to two positions on chromosome
17 in HG16 within 204,321bp of each other (HG16 positions 78,125,815 and
78,330,136); the second is arbitrarily reported here 1,729 0.109 NA
NA NA 50.0% 146 93.5% 154 NA 0 NA
0 50.0% 146 NA 0 NA 0 NA 0
NA 0 93.5% 154 NA 0 NA 0 NA
0 NA 0
rs768491 TSCAF 17 129.7797 78566586 reverse MIT

CCCTGCACCTACGCACACTGTCTTATGCACCGCCCTGCACCTGCAAACACTCTCTCATGCACCGCCCTGCACCTG
CAAACACTCATGCACCGCCCTGCAC[C/
T]TGCCACACCTCTTGGTTTGCTGCCAGTAGGAGCCTTAGGCGGTGGCTCAGAAACCTCTGTCTGTCCTCCACTC
AGGTATCCCTCTGTTGTGTGATCTACA C/T 1,302 0.138 0.025
0.350 0.027 39.2% 306 90.3% 290 100.0% 56 76.5% 68
41.7% 120 30.3% 66 36.1% 36 44.0% 84
34.2% 38 91.0% 156 87.9% 66 91.2% 68 100.0% 56
76.5% 68
rs3829572 APPLERA_RESEQUENCING 17 132.1461 79520331
reverse MIT
CCTGGAATGCGGTCAGCTGCTCGGCGAAGAACGGGCTGTGCTGCGGGGCAAGCAGAACAGGTGCTTGTTAGGGCC
ATGTTCCCAGATGGCCTGGTCTTGC[C/
T]CACCCCTGCCACCTGCCGGGCATCCAAGCCTTCACGAAGGGCCCGCCCTGCAGGGCCGCGAGGATGCCAGGCG
GCTGAGAAGCGGGCGCTCTGGGCATGC C/T 448 0.193 0.009
0.352 0.018 7.4% 148 62.7% 118 73.9% 46 46.7% 60
NA 0 4.0% 50 0.0% 10 10.2% 88
6.2% 32 NA 0 62.1% 58 63.3% 60 73.9% 46

46.7% 60
rs8074932 AB_ASSAYS_ON_DEMAND 17 133.3506 80005745
forward LGD
TCTCCGCTCCTCCCAGCTGCAGGCCCTGGGCAGCCGCAACCTCTCAGAGCCTGCCTGCCCCTCTCCTGAGGTCTG
GATTTTGCCAGCACAGAGCAGGGAC[C/
G]TCAGCAATATGCCCAGCCTGGCGCAGGCCCAGGGCAGGCCCTCTATCCGCAGGGCATCCTCTGGTCTACAAGT
TCTGTGACGACGTGGCTGGCACCAGGG C/G 950 0.135 0.087
0.484 0.004 88.9% 198 41.6% 154 10.3% 58 33.8% 80
NA 0 90.9% 66 90.0% 40 87.0% 92
88.1% 42 NA 0 44.9% 78 38.2% 76 10.3% 58
33.8% 80
rs7406705 APPLERA_RESEQUENCING 17 134.1002 80307853
forward LGD
CTCAGCCGAGCGGGACGGCCCTGAGGGCCCCCTGCCCCTGGCTGTCCGCATCTCTGAGCTCCAGTGCTGCCCTCC
GCCATCCGGCATCCTCCCATCCCTC[A/
G]AAGGCTCTGCCACCATGCTCTTCCCTGACCCCTCACCAGTTGTCACAGAGTCTGGGTGAATGCGGTCTCACCC
TGTTCCTCTTCCCTCTGCAGGAAACTG A/G 1,347 0.1 0.240
0.014 0.386 19.7% 198 63.5% 156 8.6% 58 0.0% 80
NA 0 15.2% 66 30.0% 40 18.5% 92
23.8% 42 NA 0 65.4% 78 61.5% 78 8.6% 58
0.0% 80
rs1141463 AB_ASSAYS_ON_DEMAND 17 135.8794 81056503
forward LGD
TGCCCCTGTTGATAACTCTTGATTTTCTCCACTAGGAAGAAGTCCCCAAGGAGACTTCGCCATAGGAGTTCACAG
GAAATATTGAAATGTCAGGTTCCAC[G/
T]CCATTTCAGATGAGATTAGTTCATTTAGACCTTAAAGGAGCTCCACCAAAGGTCTCGTACCTCTCAGAGGTAA
GGACTCCCTTTTACCTCTAGAGCATTA G/T 1,758 0.065 0.005
0.061 0.162 34.3% 198 71.1% 152 63.8% 58 23.7% 80
NA 0 40.9% 66 32.5% 40 30.4% 92
23.8% 42 NA 0 67.6% 74 74.4% 78 63.8% 58
23.7% 80
rs729123 TSCAF 17 136.734 81566007 forward MIT
CCCTCCCATCCCCCACGTGCCCCACCGAGGAGAACTGGAAAAGCTGTTTCCCAGGTACTGTCGGGGTGTAGGCCC
CCCGTGCTGGCCCCGCAGCCATGGC[A/
G]AGATCATTGGCAGCCCGGCCTTGTCTCACTCACTCTCTTGCAGGTCCGATGTGGCCTCCGTGAACTGGAGTGC
ACCTTCCCAGGCCTTCCCACGCATCAC A/G 2,082 0.037 NA NA
NA 99.2% 132 86.4% 154 NA 0 NA 0
99.2% 132 NA 0 NA 0 NA 0 NA
0 86.4% 154 NA 0 NA 0 NA 0
NA 0
rs518471 TSCAF 18 1.0485 608124 forward MIT_and_LGD
TATTGTGTGTCTGCTGTGGTTGAAAGACAGTCACTGCGCACCCACTTGGAAGGACAAAACTGCTATCAGTGAAAA
CCTGAAGAGTACGTTTGGTTTCTTA[C/
T]CTGTGCTGTGTCCTGTTTGCATGTTGGTTGTCCTGCTGGCGTTTATAGTGAGTCGCAGTTGAGAGATAACCAT
ATTCGCTGTTTTCACGGTGAAACGTTC C/T 759 0.13 0.010
0.117 0.033 79.3% 198 28.8% 156 39.7% 58 50.0% 80

```
        NA      0       80.3%   66      72.5%   40      81.5%   92
78.6%   42      NA      0       28.2%   78      29.5%   78      39.7%   58
        50.0%   80
rs632600        AB_ASSAYS_ON_DEMAND     18      7.0384  2661380 forward LGD

AATTATAGAGTCAACAGAAGTATTTTAAACTCTTAATGTAGTTTATGTTTCATATTGATCAGTTTTCATCATGCC
ATCATTATGAAATGATATGAAAACC[A/
C]TATCAGTTGAAACCATATCAGTTGAAAACCGTATCAGTTTTCATTCATACCATCATTATATGGATAAGCAGAA
AACCCCAGTGTTTAAAATCTTGCCTTG     A/C             622     0.206   0.007
0.401   0.009   33.7%   196     95.5%   154     100.0%  58      100.0%  80
        NA      0       42.2%   64      15.0%   40      35.9%   92
31.0%   42      NA      0       96.2%   78      94.7%   76      100.0%  58
        100.0%  80
rs637651        APPLERA_RESEQUENCING    18      7.0878  2678798 reverse MIT

CTGAAGATTTTTGGCTTGAGAAAGCCCATTTTTGTTATTATGACTAAAGGAAAGGGTAACTCATTTTGAAAATTT
CATACTTTCAAGTTAAGTTCTGTCC[C/
T]ACCGTCTATCCAAAGGAGTAAATTTATAATTATGAGTTAAAATGTATTGTACCTTTCTGTTTCTAATATATCC
ACTATATATTGCCTCTTTATTTTTCTC     C/T             extended_map    0.215
0.002   0.390   0.004   33.8%   148     96.7%   120     100.0%  46
100.0%  64      NA      0       42.0%   50      16.7%   30      35.3%   68
        30.6%   36      NA      0       98.3%   58      95.2%   62
100.0%  46      100.0%  64
rs2298539       AB_ASSAYS_ON_DEMAND     18      8.8978  3065712 forward LGD

TGTACTTTCTGAAATAAAAGGCTCTTTCTAACACTCAGAGGGGCGAGCAGCATGCAAGCTTCCCGGGAAATTAGT
GCATGCAAGTGGCATTTGCTAGGAC[A/
C]AGGGACTTACTTCAACCTCTGGAATTCAGCATAGGCCTCATCGTATGCTTTAAAAGAAAAAAGAAAAGTTAGA
ATTTTCTCACCCAGAATTGATGACACA     A/C             806     0.215   0.038
0.480   0.001   3.5%    198     57.1%   154     79.3%   58      60.0%   80
        NA      0       1.5%    66      5.0%    40      4.3%    92
11.9%   42      NA      0       48.7%   76      65.4%   78      79.3%   58
        60.0%   80
rs1639348       AB_ASSAYS_ON_DEMAND     18      10.2388 3630252 forward LGD

ATAGATGCTTAATAAATATTTATTTAAAAAATAGATATAAATAAATACAGGGGTAACTTGACATAAAAGTCCTAC
TTAAGGACTGCTGTGGGCTAAGTAC[C/
T]ATGTTGTCCTGTTCTCTTCTCACTCCAGACTACGTGCTGAAGTCCTTGATCTATAGCCCAAGCAACAGAGAAT
GGCACACTCTTAGGAGCAAAGCCAGAA     C/T             extended_map    0.175
0.042   0.463   0.006   21.2%   198     79.9%   154     96.6%   58
72.5%   80      NA      0       18.2%   66      22.5%   40      22.8%   92
        14.3%   42      NA      0       80.8%   78      78.9%   76
96.6%   58      72.5%   80
rs439890        TSCAF   18      10.6165 3710081 forward MIT
AGGATGGCAGTCTTATCCAGAAATTCAGGATGAACTTCCGTCTTGATTAGATCTGATACTTCTTGTCAGACATAC
ATCTCTACAGCATGAAACTGGTTAA[C/
```

T]CAATGTCAAGTGTAATAATATTATGTACCCTTTTGAAACCACAGAATATTCTAGGGATAAAAGCTAATTAAAC
TTTGACAGTTTGTCATATATTAGAGAT C/T 275 0.257 0.006
0.325 0.009 74.8% 298 5.6% 252 9.6% 52 11.4% 70
75.0% 104 85.5% 62 65.0% 40 71.7% 92
83.3% 42 4.6% 108 5.6% 72 6.9% 72 9.6% 52
11.4% 70
rs2874686 AB_ASSAYS_ON_DEMAND 18 16.8485 5397839 forward MIT

CCAGCATCAAGAAAGAGTGGGAAATAAAGTCTTACATGCAATTTACTCTAAGATTGAAGAACTATGGTCTACATA
GACTTGCTAAATGTGGGCACGTGTA[C/
T]GCTCTTGCATATGGATGCCACTTCTTTCTTATACACAAACCACAACATTCTCACACACAATTAGGAAGCTTAA
TAAGAATATAGGAATATAGGAGTGGAA C/T 95 0.339 0.023
0.332 0.002 11.8% 186 90.3% 154 77.6% 58 87.5% 80
NA 0 18.8% 64 12.5% 32 6.7% 90
5.6% 36 NA 0 89.7% 78 90.8% 76 77.6% 58
87.5% 80
rs721593 AB_ASSAYS_ON_DEMAND 18 17.1304 5629957 forward MIT

TATCACTGACACTTTAAAGGGAAGAATTTGCTCCAGAGAATTGTTCAGTCATCAGATTCTAAGTAAACTTGTTAG
TGTTCTCATATTTCCCACATCATTG[G/
A]TCAACAAAAGGGACAATGCTTATTTTTAAAAGCTAATCTAGAATTTAAAACCTATAAGAAAATGACATTTCTC
CCAGTGTTTCAACTTTAAAACCTGTAT G/A extended_map 0.194
0.000 0.240 0.015 94.0% 216 40.4% 230 42.1% 38
55.0% 40 94.4% 108 100.0% 30 95.0% 20 89.7% 58
96.2% 26 38.5% 156 45.0% 40 44.1% 34
42.1% 38 55.0% 40
rs1917913 AB_ASSAYS_ON_DEMAND 18 17.4007 5732915 forward LGD

AGAGTAATGAAATTAGATATTCCTTGAAAATGATTTGTTGAGCCTCATTTTGTGACAGGTAGAAAAACTGAAACC
TGAGAGGTGTTTTCACATTCCCTAA[A/
G]AGATAAATCTTAACCTGGTTTCCTATGCACCTCTCAATACCAAGCTTTTCTGACATTGTTTGATGGGAATCTG
GTCAATAAATAAGAGGAAAGACTATAT A/G 844 0.183 0.139
0.030 0.118 29.9% 194 89.7% 156 50.0% 58 53.7% 80
NA 0 28.1% 64 40.0% 40 26.7% 90
23.8% 42 NA 0 92.3% 78 87.2% 78 50.0% 58
53.7% 80
CV3086255 APPLERA_RESEQUENCING 18 23.3728 7039282 forward LGD

TGCAGAAGTGAATTCCAACAACTTGGGTGAAAGATCGTCAGCGCTTGGTCTGCCATTGATGAGTGATGTATGAAT
CTGAAGATGAAGGCATCAAAATAGA[C/
T]GAATGTCAATTGTTTATTTATTTATTTATTTTTTGAGATGGCGTCTCGCTCTTTGGTCCAGGCTGGAGTGCAG
TGGCACAATCTTGGCTCACTGTAACCT C/T 429 0.338 0.001
0.553 0.118 19.7% 198 98.1% 154 100.0% 58 70.0% 80
NA 0 15.2% 66 17.5% 40 23.9% 92
9.5% 42 NA 0 100.0% 78 96.1% 76 100.0% 58
70.0% 80

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rs749787        TSCAF   18      25.1509 7417786 forward MIT
TGTGTGTCTCTGTGGCCCACCCCAACGTGGAGCCGGCTGGGGACATGGCCACACCATGCCCTGACCATTTTCAGC
TTAGAATGCAGTTCACTCACAGAGT[A/
G]TTCACAGGTTCACAAAACACAGTGCCAGAGGCCCTCCAAGCATCCAGAATGTTGACCTAGCAGAAAAATGAGA
CTTTGCATAAAACAAGAACATAGATGG     A/G             1,628   0.169   0.045
0.105   0.213   63.5%   178     7.1%    156     25.0%   56      56.2%   80
        NA      0       65.6%   64      62.5%   24      62.2%   90
47.5%   40      NA      0       3.8%    78      10.3%   78      25.0%   56
        56.2%   80
rs1893223       AB_ASSAYS_ON_DEMAND     18      25.7481 7599137 forward LGD

ATTCCTGTTTTCTTCCCCAGGGTATGTTTGTGCTATTATTAAATGATTACACATGCTTGTTCATTCCTTCCTAGT
GTATACTTTCTAGCTAATGTCATTT[C/
G]AAGCTAAAAATAAGTCTGGTCCTTAGTTAGAGTTCCTGAGATTTTTCTGCCCAGCCGTCTGTCTTTCTCCTGA
GATTTGGGTCTTCTCACATCATAGTGA     C/G             extended_map    0.317
0.063   0.198   0.231   90.1%   192     14.9%   154     41.4%   58
70.0%   80      NA      0       97.0%   66      89.5%   38      85.2%   88
        95.2%   42      NA      0       11.5%   78      18.4%   76
41.4%   58      70.0%   80
rs1941141       AB_ASSAYS_ON_DEMAND     18      25.8101 7620982 forward MIT

CAGGCATATAGTGTAGTGTCACGTGAGCCAGTGGTAATTTACATGGGGACCCTTAGGTTGGGTTGGCTTATGTGC
CATGTGAAAGTGAGAGCCTGTGCCC[A/
G]GGATCTGATTTCCTCTTTAATTGAGTATCAAATTAAATTCAGAGATCCCGGGGACTACCGGCCAGAAACATTT
TCCCTCATCCTGATTTGCTTTTCTGTT     A/G             32      0.408   0.088
0.222   0.191   97.4%   196     18.5%   146     52.0%   50      69.2%   78
        NA      0       100.0%  66      100.0%  38      94.6%   92
97.6%   42      NA      0       13.9%   72      23.0%   74      52.0%   50
        69.2%   78
rs1440997       AB_ASSAYS_ON_DEMAND     18      26.569  7888534 forward LGD

GGGGAGGATCAGGGAGGCTGTGGTGTTAAACTGCTTCTGCATTTCTCCTGTTTGGCAGACATCTGAAGGATAGCC
TGATGTCAAACCTCTCAGAGGCCAG[C/
T]ATCCAGGATGGATTTTCATGAGCAAATGAGAGCAATAGTCAGTTTAAACAACTGGTTTAACCAGTTGTTTCCT
CTCTGAAAGCAAATGGCTTTTCCCACA     C/T             1,019   0.237   0.009
0.247   0.077   13.8%   196     80.1%   156     70.7%   58      48.7%   80
        NA      0       6.1%    66      5.3%    38      22.8%   92
7.1%    42      NA      0       83.3%   78      76.9%   78      70.7%   58
        48.7%   80
rs1893124       TSCAF   18      28.5271 8578847 forward MIT
TATCTCCTGCAGATCCAGGAGGCCAGGTCTCCATGTTTCTACCTTGGGACGCTCCTCTACCAACTGCTACAGGTT
TTGTTATATCAGGAAGTCCATTTGA[A/
C]CCAACTGAGTTGGTGTGATGCTCTCTTCTGGGAAACTCCTACAGTAAGTTTGAGGCACTGGAGCTGACAGAGG
TCACTTAGACTCAAGGCTGGAAAGACC     A/C             2,085   0.066   NA      NA
        NA      87.0%   108     54.5%   110     NA      0       NA      0
        87.0%   108     NA      0       NA      0       NA      0       NA
```

0 54.5% 110 NA 0 NA 0 NA 0
NA 0
rs629699 AB_ASSAYS_ON_DEMAND 18 29.2278 8825869 reverse MIT

AAGAAATAGAATTACGATGTACACAGATATAAAAAATAGATGCATAATACTGAAAACGCTGACATGTTACCTCCT
GATAAGAAGAGAGGGTGAAATGTGG[C/
T]CACTATTGCCCAATTTGGCTGCAGTTGGACAAGAAATGTCTCTGGGCTGGTGGTGCTGGCTGTTACCCAGGAG
GCAGGGCACGCCTGACGTGTGGTCTGT C/T 1,384 0.168 0.009
0.156 0.023 13.1% 198 67.9% 156 56.9% 58 83.8% 80
NA 0 10.6% 66 7.5% 40 17.4% 92
19.0% 42 NA 0 65.4% 78 70.5% 78 56.9% 58
83.8% 80
rs1869735 AB_ASSAYS_ON_DEMAND 18 31.6802 9690456 forward MIT

AAGTGTTGCTGTGGTTACTTGCATCAAGCTTGCTTCCAGACGTTCACAGTCAAAAGAGAAGAGTACTCCTAGATA
ATCCTTAAACCTTCCGTTTAAGTTT[C/
G]CTTTTCTTCCCTTCCTTATCCTCTATATGCAAATTTACATTTGGCAACCAGCAGGGAGCTTTCAGATTCCTTA
TCTCTCACACCCACCAGAACCTAATTT C/G 494 0.184 0.037
0.123 0.011 25.8% 186 86.2% 152 67.2% 58 76.9% 78
NA 0 23.4% 64 14.7% 34 31.8% 88
20.0% 40 NA 0 87.8% 74 84.6% 78 67.2% 58
76.9% 78
rs91958 APPLERA_RESEQUENCING 18 34.3394 10475363 forward MIT

GTCAGGCAAACGTGTGCACTCACACATCACTCTCACCTCTGTCTGTGCCCGGAGCATGATTCCAGTTGGTTCTTG
GTGTCGAGGTTGTCAGTGACGGTGA[C/
T]CTGGTACCTGGTGAGACCCCATTTGCCGGAAGCATGTGTGCACTGCTCCCTTGGGAAGATAGAGGCCTCTGAA
TGTGTTTGTTTCTTGGCTTCAGAACCA C/T 2,013 0.037 0.001
0.043 0.029 29.1% 182 56.4% 156 53.4% 58 36.2% 80
NA 0 23.4% 64 36.7% 30 30.7% 88
52.8% 36 NA 0 56.4% 78 56.4% 78 53.4% 58
36.2% 80
rs2077863 TSCAF 18 36.2288 11046815 forward MIT
TTCAGGAGAAGGTCCAGAAATGGCTCTATGTACAACCAGGCCTCGCCTGGGCCTCTTCCCAGGCNACTGTGTCCA
TTAGCCTTTCCAGGTGTCCATGGTG[C/
G]TCCTATCCACAAACCTAGGATAGATGCTTCCTCCAGTCATGCAACAGATCATAAATTCTTAGTTTTTGATTCT
GAAATTGTCCAGAGCCCTTTTCAGTTG C/G 1,203 0.142 0.013
0.158 0.010 49.4% 330 2.3% 304 7.1% 56 6.6% 76
42.0% 138 60.9% 64 47.5% 40 53.4% 88
37.5% 40 3.8% 156 0.0% 74 1.4% 74 7.1% 56
6.6% 76
rs644004 AB_ASSAYS_ON_DEMAND 18 39.4667 12004621
forward MIT
AAATGGAGCCAGTTCTGTATGTTAGTGTTTTTGTTCACGTGGCCAGGAGCTTTAAATAACCTCATTCTGCTTTGC
GCTCACATCCCTCATCTTTCAGGCT[A/
G]AAAGTACTCCAGTCGCAGTCACGATTTGGTTGTAGTGGGATTGGGTGAGCAGCCCGAGGCCAGGTGCTTGTTC

CCCTCAGAGCACCCGGCACACCTCGGT A/G 299 0.245 0.214
0.014 0.212 3.2% 186 61.3% 142 9.3% 54 10.0% 80
NA 0 1.6% 62 0.0% 34 5.6% 90
0.0% 40 NA 0 60.3% 68 62.2% 74 9.3% 54
10.0% 80
rs670671 AB_ASSAYS_ON_DEMAND 18 39.6958 12852942
forward LGD
GAGAAACATAAACTCCTGGTTGTTAAATCAGCTATTGATTAATTTTCTTTCCCATGTAGCTAAATCAGGTCTGTA
ATATACGCAGCAAAACCAAATCTCA[A/
C]CAGCAACTAGATCTGACACTGATGAGGCATTTTCAGGAATACCCAAGACACAAAAATAAACAATTTTATAAGC
ACATTGCATAAGCAATAAAATATACAG A/C 1,444 0.148 0.022
0.134 0.011 47.0% 198 96.8% 156 87.9% 58 91.2% 80
NA 0 47.0% 66 60.0% 40 41.3% 92
42.5% 40 NA 0 98.7% 78 94.9% 78 87.9% 58
91.2% 80
rs663744 AB_ASSAYS_ON_DEMAND 18 42.4012 16960477
reverse MIT
CACCGTGTGAAAACTGATTTCTGAATGGTCAGAGTGTCCCATCCTGTCATTAACAGCCCCTTTTAGCCAATTCAG
GTTCAATAATTCCCAGTGCATAATA[C/
G]GCTAGGATAAAGAGAATGGAGATCTTGAGATACGAAGTCCTCTCAAAGGTAAAGAATTTCAGGTGGGGTAAAT
GTAGAGGAACCATAAAGGTGGTGCAAT C/G extended_map 0.188
0.084 0.084 0.000 61.2% 196 3.3% 150 26.8% 56
3.7% 80 NA 0 68.2% 66 60.0% 40 56.7% 90
71.4% 42 NA 0 4.2% 72 2.6% 78
26.8% 56 3.7% 80
rs2586204 AB_ASSAYS_ON_DEMAND 18 42.5893 17226725
forward LGD
GTGAAAATAAAGAGTATCTCTATTCTGACACTGTACCCATCTAGAGAAGTGAATTTGGATTGGAAGTAAAATAAT
CGTATTACATGCACATAAAAACTAC[A/
G]TGGTTTTCAAAGTTTGTTGTGTATTCACCATTGCCCCACTTGTTGACCAGACTCACGCCTGTAATCCCAGCAC
TTTGTGAGGCCAAGGTGGGTGGATCAC A/G 862 0.262 0.273
0.010 0.051 11.2% 196 79.9% 154 19.0% 58 55.0% 80
NA 0 4.5% 66 15.0% 40 14.4% 90
2.4% 42 NA 0 75.6% 78 84.2% 76 19.0% 58
55.0% 80
CV3204052 AB_ASSAYS_ON_DEMAND 18 44.8392 19497467
forward LGD
TTACCCCCAGCTCAAGTTCCTCTTCCTACACCCTGGTTCTCAGTCATCTTCCTCCCAACTTTGCTGAGCTCTTGC
CATGGTTCTGCTCTACACCACATCC[C/
T]TCAACCCTGATTCCACAGGGTCTGGTATTGCTCTCAGTTCTACTTCTGTTGCTTTTGATTTCTTCAGCAGAGT
TGAAATTCTTCAAGGCCAGGCCCTGTG C/T 1,295 0.177 0.101
0.034 0.144 8.6% 198 61.8% 152 24.1% 58 17.9% 78
NA 0 9.1% 66 7.5% 40 8.7% 92
0.0% 42 NA 0 56.6% 76 67.1% 76 24.1% 58
17.9% 78
rs891282 AB_ASSAYS_ON_DEMAND 18 45.1374 19791047

forward LGD
ATCACTTGCTCAAAAGGCTTTTGCATATTAACCACTAACTTTAATCGTTTCACACTCAGGGAGCATGCATTTCTA
AACAGTTAGCATGGAGCTGTGTGGC[A/
G]GAGCTGCAGCTTGGCATGGTGTCCATTCGAAAGGCACATCTCGGAAGGTATTTACTATTCCTGTAGGAAATAT
GCTTCCTTACACATAAAGGTTATATTC A/G extended_map 0.19
0.181 0.008 0.162 92.3% 194 37.5% 152 86.5% 52
83.8% 74 NA 0 90.6% 64 95.0% 40 92.2% 90
97.6% 42 NA 0 42.1% 76 32.9% 76
86.5% 52 83.8% 74
rs953786 AB_ASSAYS_ON_DEMAND 18 45.2052 19857774
forward LGD
TGAGAGGCGCTGAGCTTGGGGTGGGAGGGTTTAGGACCAGATTTGGTCTCTGTGGCTGAATCCCCTAGCCTGCTT
AGAACAGCACAATAGCAGGGTCTTT[C/
G]TGCAGACAAAGTGGGGCTGTAGGAAGGGAAGAGGCTGCCCAGGCTGGCACAGCTGTGGCTGAAGGAGAGAGGC
AGAGAAGGGAGTGTCTCTGTTGCGTTG C/G 197 0.285 0.279
0.013 0.274 7.6% 198 76.9% 156 15.5% 58 16.3% 80
NA 0 10.6% 66 5.0% 40 6.5% 92
0.0% 40 NA 0 71.8% 78 82.1% 78 15.5% 58
16.3% 80
rs537069 APPLERA_RESEQUENCING 18 45.6964 20341231
forward LGD
CCTGGACCTGCTCCACTTAGGCAACTCCGTGGGATCTGAAAGATGCAAGTCTTCGGGGGGAAAGACAGTGCTGGA
GAATAGCCATCCCCTGCCCAGGGCA[A/
G]CCCTGCAAGGCCACAATTACAAAGTTCTCGTGCATCACATGGCAGTGCAGGAGTCTCTGAGCCTCATCAAGGA
GTCTCCACTCCTCCTCCTCCTTCACCC A/G 519 0.255 0.003
0.296 0.173 9.6% 198 76.3% 156 70.7% 58 27.5% 80
NA 0 7.6% 66 2.5% 40 14.1% 92
19.0% 42 NA 0 79.5% 78 73.1% 78 70.7% 58
27.5% 80
rs8089004 AB_ASSAYS_ON_DEMAND 18 51.7762 24330259
forward LGD
TATTAAAGGAATTTGGAAAAAAGGATAGACGCATTATCATTAAAAAGGTAAAAAATCTGTATTAACAATCACTAA
TAATAGAAAGGGGAAAACTCACAAT[A/
T]TCGATGAAAGCTGTAAGATATTTATCAATAAATTTGAAAATAATAGTGCAATATAAAGAAAGGATAAGACATT
TTATTGAAATACATGACATAAAATAAT A/T extended_map 0.16
0.006 0.290 0.020 10.1% 198 61.5% 156 70.7% 58
77.5% 80 NA 0 1.5% 66 10.0% 40 16.3% 92
10.0% 40 NA 0 67.9% 78 55.1% 78
70.7% 58 77.5% 80
rs1628743 AB_ASSAYS_ON_DEMAND 18 52.0663 24637585
forward LGD
ATCTTATCTTTGCAAAGGCTGCAAAAAGTTTTCTCTTGCTTGAAACTTGTTCAGACTGGAAAAGCTAGGAATAAG
GCTTCCTTTACATTTAGCTGTTTGA[A/
C]ATGATGTGTCATTACACTCACGTGTGAGTTCTCTTCAGAGTAATCTGTACACTTCCCACACAGTCATCATGAA
GAAACAGACAGCTGGTAAACCAGGAAT A/C 1,948 0.088 0.001
0.165 0.007 40.2% 194 3.9% 152 1.7% 58 0.0% 80

NA 0 46.9% 64 55.0% 40 28.9% 90
45.2% 42 NA 0 5.3% 76 2.6% 76 1.7% 58
0.0% 80
rs966304 AB_ASSAYS_ON_DEMAND 18 52.5082 25105774
forward MIT
ATTGTATCTCACTGTATTTTATAAATGCTTATTCAACTTTCCAGTCTCAAAACGAATGCTACCTACTCTGCTATC
TTCTTAGCAAACTTAGCCATCCTCC[C/
T]TCCCAAGCTCTCACACTGCAGGTTGTACATACCTTTAAAAAGAAGCTATGGAATTATGTTACAATTGTTTTTC
CTTGAGCAAACATGTCTTCTTAACTTT C/T extended_map 0.241
0.087 0.087 0.000 7.1% 184 69.6% 148 34.5% 58
71.8% 78 NA 0 4.8% 62 3.1% 32 10.0% 90
25.0% 40 NA 0 71.4% 70 67.9% 78
34.5% 58 71.8% 78
rs966305 AB_ASSAYS_ON_DEMAND 18 52.5082 25105819
forward MIT
CTCAAAACGAATGCTACCTACTCTGCTATCTTCTTAGCAAACTTAGCCATCCTCCCTCCCAAGCTCTCACACTGC
AGGTTGTACATACCTTTAAAAAGAA[C/
G]CTATGGAATTATGTTACAATTGTTTTTCCTTGAGCAAACATGTCTTCTTAACTTTGCACTCAAAGCCTACCTA
ATGCCTATACAAAGCAGTCGTTTGATA C/G 527 0.244 0.081
0.095 0.000 92.9% 198 30.0% 150 63.8% 58 28.7% 80
NA 0 95.5% 66 95.0% 40 90.2% 92
92.9% 42 NA 0 27.8% 72 32.1% 78 63.8% 58
28.7% 80
rs4799310 AB_ASSAYS_ON_DEMAND 18 54.414 27340696
forward LGD
TGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTTACAGGCGTGAGCCACTGAGCCCGGCCTGAATTGCCTGAT
TTAGAACACATCTTTTCACACATCT[C/
G]TCTGTAACTAGGGGCTCATTATCCAGTTTATGAATTATCCAGGCTCTCCTCTTCTTCCCTTTCCTATGCTACC
ATGTGATTTTACACAGTGGTTTCCAAA C/G 1,132 0.195 0.051
0.490 0.004 5.1% 198 57.7% 156 82.8% 58 65.0% 80
NA 0 6.1% 66 10.0% 40 2.2% 92
9.5% 42 NA 0 57.7% 78 57.7% 78 82.8% 58
65.0% 80
rs718780 AB_ASSAYS_ON_DEMAND 18 54.5402 27507248
forward MIT
CTGGAGAATCTTTGTGTTTGAATACTGATCAAGGTTAAACATTTTTAAATGAAAACTGACTTTTCCAATGATCTT
ACTAAAAATGTTCAGGGTGGAAACA[C/
T]GTTTATCCACATGTTTATTGAGTGTCTGCCGTTTACCAAGCAATGCCAAAAGTTAAGGGGCCATCTGGCTTCC
TCTGTAAAGAACCAAGATCCTGCAAAG C/T 953 0.203 0.008
0.188 0.001 95.7% 324 43.2% 296 53.6% 56 47.4% 78
96.0% 126 95.5% 66 87.5% 40 98.9% 92
88.1% 42 43.8% 144 43.4% 76 42.1% 76 53.6% 56
47.4% 78
rs4436849 AB_ASSAYS_ON_DEMAND 18 55.1343 28807433
forward LGD
GAATTCACCTATGACATGTGCTAGATCATTTGGAAATTTAATATAAAAACCAAAAGAAAACAGTGGACGTTTTAT

CAAAACAATGTACATTTGCCCTTCA[A/
C]CAGTTACCGTAGGCACGCCATACAGAATTATTATAATAAGGCATTTTCAAAGGGATAAACATAAAATTAACAG
TAAAAACAGTTTCTTAAAAATCCCAAA A/C 181 0.308 0.000
0.487 0.013 74.7% 198 0.6% 156 0.0% 58 5.0% 80
NA 0 77.3% 66 75.0% 40 72.8% 92
83.3% 42 NA 0 0.0% 78 1.3% 78 0.0% 58
5.0% 80
rs550139 AB_ASSAYS_ON_DEMAND 18 56.8629 30976311
forward LGD
GAAAGCAAAGATGTTACCCCTCTTCTCCATCTACATTCATTTCCTCCCAAGGTACACCACTTGTGACAGAAGTTT
GTGAGCCATTACCTGGGTTTGAAAT[C/
T]TCATGCTCAAAGTACATGTGTGTTTCCCATTTAATCCACGAACTCTGGGGTTTTAAACACTTGATCTTAGACA
TTTGTGCACAGACAAAAATACATGTGA C/T 1,587 0.174 0.050
0.083 0.046 17.9% 196 75.6% 156 50.0% 58 51.2% 80
NA 0 13.6% 66 17.5% 40 21.1% 90
16.7% 42 NA 0 73.1% 78 78.2% 78 50.0% 58
51.2% 80
rs322636 AB_ASSAYS_ON_DEMAND 18 57.77 32854148
forward MIT
GAGGAATTTACTTTGCACTTGACCTGGCAGGAACCTTAGCATGTGCCTCATTGAAATTAAAGTGGGAGAGGATTT
TAAGAAAGGCAGACCGGCTGTTAAC[A/
G]CTCAGGAACATAAGAATTGTCCATTTCTCTTTTAGTCTGATAGAGTGTCTGGTTAAATTTCTTCATGGATGAA
AAATGAGTAGTATTCAGATAAGGAAGG A/G 2,059 0.094 0.007
0.211 0.009 62.1% 198 18.4% 152 10.3% 58 10.0% 80
NA 0 71.2% 66 52.5% 40 59.8% 92
69.0% 42 NA 0 13.5% 74 23.1% 78 10.3% 58
10.0% 80
rs1941941 AB_ASSAYS_ON_DEMAND 18 58.5677 33349322
forward LGD
AGGCAGATTCCTGTTGGAGAGCATTTATTTTACTTTTCAAGTGTGGGCTTTCTGGAAGGTAATGGGAAACTGCAA
GGTGTCTTGCAAGCAGGTGTTTGGC[A/
T]TATGGTGATGTGGTTCCCAGGGTGGCTTTTGGGCAGGGGCAGGGCGGGGTCCTCCAGGAGCTGTCTGTCGGTG
CTGAGCTCAGTCTGCTTCCCTACCACT A/T 2,015 0.106 0.195
0.002 0.015 26.3% 198 72.7% 154 20.7% 58 85.0% 80
NA 0 24.2% 66 27.5% 40 27.2% 92
31.0% 42 NA 0 74.4% 78 71.1% 76 20.7% 58
85.0% 80
rs307114 TSCAF 18 60.5619 35892634 forward MIT
TACCTAGCCTAAGTCTTACCCTATGTTTCAGAGAGTGAGACCAAAAAGGTTGGGGGAAGAGTTTGAGATTCTCTC
AAAGACTCTACTGGGCAATTTAGAA[A/
G]AACACTTACTGCCAGAGAGGGAAAAAATTGTGTTAGCAGTCTTCAGGGAAGGTGGCACTTCTGCAACAGATGG
GCTGACTGAATTTTTTTTTAAATGACG A/G 403 0.281 0.059
0.174 0.023 87.0% 284 15.3% 262 40.5% 42 30.0% 60
87.0% 138 92.5% 40 90.6% 32 82.4% 74
86.1% 36 15.4% 156 20.4% 54 9.6% 52 40.5% 42
30.0% 60

rs965044 AB_ASSAYS_ON_DEMAND 18 60.5729 35917600
forward LGD
GCTAATGCCTTATTTTTAAACTCCTAGTTCTTTACTTGGAGCTTTACAAATAGATTTAGGTAATAGCTATTTAGT
TATAAAGTTTATTTTAGGAGTGTTC[C/
T]GTCAGTTGAGTGAGTTACAAGTCCGTAGGTTAAAATCAAAACAAAGTACATTTCCAGACTCTCGGGCACTGGC
CATAGGACTCTGAGTGGTTGTGCTGGT C/T extended_map 0.202
0.063 0.099 0.030 21.4% 196 84.4% 154 57.7% 52
67.1% 76 NA 0 17.2% 64 20.0% 40 25.0% 92
35.7% 42 NA 0 80.3% 76 88.5% 78
57.7% 52 67.1% 76
CV2060277 AB_ASSAYS_ON_DEMAND 18 62.3472 38302350
forward LGD
TTTTAAATGGATGTTTTCTTCTATTCTCAAGTCTGTCTGTCTTTTTTTGCCTCTACGCCTGGGGTCTCCTTCTTG
AGTCTGATCACTCGTTTACTGACAA[A/
G]TAAAACATACCTGTCCCATGTCTCCTACTCATTATTGGTGCTGTTTTCCTCCCACCTTCTATTTCATTTGTTG
TAAGAAACTAGCACCAGGGAGACCACT A/G 702 0.286 0.002
0.404 0.193 98.5% 194 37.8% 156 32.1% 56 87.5% 80
NA 0 100.0% 66 100.0% 38 96.7% 90
97.6% 42 NA 0 38.5% 78 37.2% 78 32.1% 56
87.5% 80
rs879214 AB_ASSAYS_ON_DEMAND 18 62.4456 38809551
forward MIT
TTGCTGTAGAAAGTAGTAATGATCAACCATAGGAGGCATTTTTCCAATGTATAATGGTGAGTAACTCTCACAAAT
CAGATTATTGCTAGCTGCTGGAGCT[A/
T]TGAAGACACACAAAAACACACATGGGCACATACAATCATAGTCTTTACTCTCAAGGGGTTTGTAAAATAATGG
TGGGAGACATACATATAAACACATATA A/T 204 0.281 0.026
0.243 0.023 12.6% 182 84.6% 136 68.8% 48 69.6% 56
NA 0 13.8% 58 13.2% 38 11.6% 86
15.8% 38 NA 0 80.3% 66 88.6% 70 68.8% 48
69.6% 56
rs717140 AB_ASSAYS_ON_DEMAND 18 63.1332 40071351
reverse MIT
TTTCTCAGAGTGAATTTGGTGATTTTATAGATAAAAGGTGGGCATGAGAGCCAATTGATTAACACTAACAGCCCA
GTCATATCCCTGGTTTTTCTTTTAA[A/
T]GTTTCACCATCCACATTTTTCAATGGATTTTTCTCCATTCTTAATTTTCAGTTGAGCACTACACCAGGACAGT
GTCCACTCCTACGGCCCTCAATTAGAC A/T 1,912 0.073 0.031
0.027 0.005 37.9% 190 76.9% 134 57.4% 54 84.2% 76
NA 0 26.6% 64 47.4% 38 42.0% 88
35.0% 40 NA 0 81.2% 64 72.9% 70 57.4% 54
84.2% 76
rs8089153 AB_ASSAYS_ON_DEMAND 18 65.6342 42021292
forward LGD
TCAAAGTTTATTCTAATTGGAAGGAAACACGTATAGGGAAAGTATAGGTCAAGGCAAGGAGCTGTTTTGTTCCCC
TTCTTACGTATGAAATGTAGATGTG[C/
T]TTTTATTTACACAAAAGGTGTATTCTTGTGTATTTGTGGGCAACCAAATTCTAAATAGCAACCTTCAAATACA
TTAGGAAAACTTACTTTAAAGGAGTCT C/T extended_map 0.138

0.064 0.036 0.230 10.4% 192 57.8% 154 27.6% 58
6.2% 80 NA 0 9.7% 62 10.0% 40 11.1% 90
11.9% 42 NA 0 56.6% 76 59.0% 78
27.6% 58 6.2% 80
CV474845 AB_ASSAYS_ON_DEMAND 18 68.1134 43769752
forward LGD
TTCCCCAGAGAAAAAAGGGAGCTTGGAGCAGATGTTTAACACCAGAATTAGCACTCACGGGGCACTGGCAACACC
AGCTCCCAGCTGAAGACCTCTGATC[C/
G]CAGACATGGAAGCCATTCACTTCCTAGGGGTGGCCAGACCAGGATAGTTCCACCTTTCAAGGAGAAAGGTCAC
GAGCCCTTGGATGGCTTTAGAGTGGTC C/G extended_map 0.051
0.030 0.192 0.039 19.6% 194 50.0% 152 70.7% 58
26.9% 78 NA 0 15.2% 66 15.0% 40 25.0% 88
11.9% 42 NA 0 53.9% 76 46.1% 76
70.7% 58 26.9% 78
CV474838 AB_ASSAYS_ON_DEMAND 18 68.1206 43773153
forward LGD
ATGATGCTACTGAACACTGAGGAAAAATGTGCCTAATTCACTCTTTCAGCACATCAGGGAGGAGAGGGTTACTGA
TGGGGAACAGGCCTATAGCTTGGCA[C/
T]GTCTGCTGGAATGACTAAAAGGGCTGTTCACCACTATGGGAAAGTCCTGAGGCCTCTCACTGGAAGAATGAAG
AGCACAAAGTATGGGAGTGGAGTAGCC C/T 1,950 0.06 0.016
0.173 0.031 18.0% 194 50.7% 150 66.1% 56 30.0% 80
NA 0 14.5% 62 12.5% 40 22.8% 92
11.9% 42 NA 0 55.3% 76 45.9% 74 66.1% 56
30.0% 80
rs2306514 APPLERA_RESEQUENCING 18 69.2099 44398208
reverse MIT
GGGTTAGAGGGACGGGGTGCACAGCCAGGGCACTTCCTGCCTGGATCCCAAAGCCCACCTGCCAGATTCTGGGTG
CTCTGCTGGGTGGGACCATTCATGC[C/
T]TTGGCGGTCTAGTGTCAGGCAACTGGATGCTGCCCAGAATTAGGGGCTCCTGCATCACCCCCTCTGAATTTCC
CAAGCTGCCCCAACCCCGGGCCCGCGC C/T 907 0.173 0.176
0.704 0.049 9.3% 194 62.5% 152 100.0% 58 85.9% 78
NA 0 6.2% 64 2.5% 40 14.4% 90
19.0% 42 NA 0 64.9% 74 60.3% 78 100.0% 58
85.9% 78
rs7230113 AB_ASSAYS_ON_DEMAND 18 69.8087 44615389
forward LGD
ACTAGTCCTGCATCCCTGCCCACATTTGGGCTGTTTGTCCCTTCCCATCGCATAAGGAGCGGGGAAGGGCAGGAA
ACTGAGGCAGCCAGGGTTTGACAGC[A/
G]AAGCCTGCACTGCCTGGCCTGGGGGCAAAGGAGTGAGGTCCAGAGGTTACGAGCTGCCAAGGACTGGGGACCT
CATCTTTCTCCTCCTGGCTCCCATCCA A/G extended_map 0.13
0.003 0.145 0.015 83.7% 196 34.7% 150 40.4% 52
21.2% 80 NA 0 89.1% 64 67.5% 40 87.0% 92
95.2% 42 NA 0 27.6% 76 41.9% 74
40.4% 52 21.2% 80
rs357897 AB_ASSAYS_ON_DEMAND 18 70.0916 44836171
forward MIT

ATTTCAATAAATACCATGAAAACGAAGTGTAAACTTTTAAGACTACCATGTACCTCTCCCATTTAGGCTATGAAT
GGTATCATGGAGGGAAAATTCAAGA[C/
T]GTCTGGATTTTAGAGGTGGCTCTGACACTAATAAACTTGGACAAACCATGTCCCTCTTTGACACTTAGTTACT
TCATCTATAAACCATTACGGCTGATGA C/T 1,071 0.168 0.026
0.127 0.037 26.8% 198 84.7% 150 69.0% 58 65.0% 80
NA 0 27.3% 66 25.0% 40 27.2% 92
28.6% 42 NA 0 83.3% 72 85.9% 78 69.0% 58
65.0% 80
rs3892158 AB_ASSAYS_ON_DEMAND 18 72.1415 46452500
forward LGD
GGCCTCGGTGCATAAGTGTTGAATAATGAGCTCCTCCTTCCTTTTATACCCAAGATTTGCTGGTGAGAGAACTCA
CTCCCTCTCAGAGGGTGTTTTCAGT[C/
T]CTGGTGTAAAGGACCCGACCTTCAGTCATTGCTCCAGTCTCTCCACTTGGGTACACCCAAGTTGTAAACATCT
CAGGAACAGGACACTGTCTTATTCTAT C/T 756 0.171 0.046
0.094 0.056 24.5% 196 82.9% 152 60.3% 58 57.5% 80
NA 0 25.8% 66 17.5% 40 26.7% 90
26.2% 42 NA 0 89.5% 76 76.3% 76 60.3% 58
57.5% 80
rs1530390 TSCAF 18 72.3336 46567888 reverse MIT
ATCTCTAAAATGTGTGTGTGTGTGTGTGTGTGCAGTGATTGCGCAGGATCCTTCCAAAGGATATTTGCATTGT
TTCCTGGGCCTCTAGTGTATGCTGT[A/
C]CAATATGGTAGTCTCCAGCCACAGGTGACTGCTGAGTAATTTAAAGATGGCTAGTCTAAATTAATAAGCACTG
TAAGCATATGAAAAACACACTGGAAGC A/C 348 0.22 0.006
0.247 0.021 18.2% 308 83.0% 264 75.9% 58 68.8% 80
20.5% 112 9.1% 66 18.4% 38 21.7% 92
28.6% 42 84.8% 112 81.6% 76 81.6% 76 75.9% 58
68.8% 80
rs7242085 APPLERA_RESEQUENCING 18 75.7025 50132828
forward LGD
GGTGCACACCACTGCACCTGGAACAGAAAATATTTTTTTAAAAAAGTCTTTACAATGAATTGTTTCTTACTTAAA
AACAAAGTCTTGAAACATAATTTAA[C/
T]TTATTTTCTTACTGAAGTTTTAACCACTTTCCAGCCTGATGTATCTCGATTATAACCTAAAACTTCTTGGGCA
GTTTGTTGGGCAATTGCCTTGAAGTCC C/T 1,797 0.093 0.000
0.123 0.025 10.1% 198 47.4% 156 46.6% 58 66.2% 80
NA 0 9.1% 66 0.0% 40 15.2% 92
9.5% 42 NA 0 48.7% 78 46.2% 78 46.6% 58
66.2% 80
CV439955 AB_ASSAYS_ON_DEMAND 18 76.0068 50661763
forward LGD
AATACGTCCCTTCGGATACCTCTAGCTAAGCAATAATGAATATAATAAAAGGATCATTGCAACAGAAAAAAAAAA
GAAAATTGTGAAATAAGTTAATACC[A/
G]TCTCGTTTTTAGCCTCACCTTGTTTTTCCTAGTCTGTTCCCAGGGCCCTGAGTCGCTGGTTGGACCCCCTGAC
TGCCCCCTGGAATATGTTTGTCTTGTC A/G extended_map 0.121
0.107 0.010 0.058 73.5% 196 24.0% 146 62.5% 56
3.8% 78 NA 0 78.8% 66 73.7% 38 69.6% 92
81.0% 42 NA 0 31.4% 70 17.1% 76

62.5%	56	3.8%	78
rs1440476	AB_ASSAYS_ON_DEMAND	18	76.3102	51189053
forward	MIT
TGATGCAATTTAAAACGTCAAAAAGGAAACATATCAACCTCAACATGAGAGGTAAAGGGGAGGAACAAAGGGAGA
AACTCAGTAATTAAAAATGTGCTAA[C/
G]ACTCTCCGTCATCTTTTTTAGGAAAGATACAGACACCAAACAGATTTAGACTTTAATAGAGATATATAATTTG
AAATATGTGAGTTAGAAAGGCAAGAAT	C/G	1,375	0.143	0.005
0.261	0.007	87.5%	192	37.7%	146	29.3%	58	47.5%	80
	NA	0	83.3%	66	91.7%	36	88.9%	90
88.1%	42	NA	0	37.5%	72	37.8%	74	29.3%	58
	47.5%	80
rs2286984	AB_ASSAYS_ON_DEMAND	18	77.4654	52420235
forward	MIT_and_LGD
CGTATTTTACATTGATTCTATTCTAAATGGCAGTATCTATACCAGCAAAACTCATAAAGGTCATCAGTACATGTC
TGGTCTAAAATATAACATAGCTGGG[A/
T]CAACATCATTCATGAGAGACCTGAAAGCTTTCCACTGAAATCCCAATCACACAATCCTAGAAATGTTTTTCCC
ACCCTAAGAAAACTCACTTCTAGTACC	A/T	extended_map	0.255
0.001	0.334	0.001	88.4%	198	20.5%	156	22.4%	58
22.5%	80	NA	0	89.4%	66	97.5%	40	83.7%	92
	85.7%	42	NA	0	21.8%	78	19.2%	78
22.4%	58	22.5%	80
CV2673992	AB_ASSAYS_ON_DEMAND	18	77.4655	52420358
forward	LGD
GAAAGCTTTCCACTGAAATCCCAATCACACAATCCTAGAAATGTTTTTCCCACCCTAAGAAAACTCACTTCTAGT
ACCTTAAAAGAACTCCCCTTTGGTC[A/
C]AAAGACACCATGTTAGAAAGCTCACAAGGTAGCAAGATGATAAAAAGGCAGTTTCATATAAAAGAATGTGGAT
AAGAGTAAGAAATTCAGGTTTTAAGAG	A/C	183	0.29	0.001
0.375	0.001	91.4%	198	20.5%	156	22.4%	58	22.5%	80
	NA	0	92.4%	66	97.5%	40	88.0%	92
90.5%	42	NA	0	21.8%	78	19.2%	78	22.4%	58
	22.5%	80
rs1029987	AB_ASSAYS_ON_DEMAND	18	77.4749	52454252
forward	LGD
GTTCGGTAAATTAAGCTTTTGGAGCTCTGGAGATGCAAATGACAGCTGGCTCTGCAGAAAGAAGGGGTCAGGCTC
AGGCAAGGGTGGCTGCGGAGACTCC[C/
G]ACAGGCTGGAAGGAATAGGGGCGGGCCACCCCCAAAACCAGTTTGTCAAAGAATTGAAAAGGAGCAGGTGAGA
AATCTCCTGAGCTGGAGAAGCCGGCCA	C/G	extended_map	0.286
0.000	0.375	0.000	8.6%	198	78.9%	152	77.6%	58
77.5%	80	NA	0	6.1%	66	2.5%	40	13.0%	92
	9.5%	42	NA	0	77.6%	76	80.3%	76
77.6%	58	77.5%	80
rs1214040	AB_ASSAYS_ON_DEMAND	18	77.5328	52660918
forward	LGD
TTATGGTAAGAGAATAAAGAGCTACCGCTCTGCAGCCATAGAGAAACCTTACATTCAACAAGGTTCAAACAAGGC
CTTACAAGGCTAAAGGCTACTGTTC[A/
G]CTAGAAATGAATGATTTATCAGAGGGGAAATATGCACACATAGGTTGGTAGAGATAATGAGAACTGAGGAACT

AGCAAGGCTTAAAATTGTCCTGCTAGT A/G extended_map 0.121
0.002 0.224 0.002 66.3% 196 16.9% 154 12.1% 58
12.5% 80 NA 0 78.8% 66 60.0% 40 60.0% 90
64.3% 42 NA 0 20.5% 78 13.2% 76
12.1% 58 12.5% 80
rs6567036 AB_ASSAYS_ON_DEMAND 18 80.6098 54768991
forward LGD
GCCACTGCATACACCCCACCCCGCTGTTTTTATTCCATGCTTTTACAATACAAAACAAAAACCAAAGTGAGCTGG
TCTTTAGAATCAAATTGCACTAATT[C/
T]TGCCCTTTTCAAATTTGAAATCCAGTGAGTTTAAGTTGAAGATGGCTGTTGTGGCCATTATGTTAATGATGAT
AGTTAGCTAAGCAATTTAAAAAGACAT C/T extended_map 0.098
0.119 0.002 0.090 28.8% 198 73.7% 152 32.8% 58
38.5% 78 NA 0 27.3% 66 17.5% 40 34.8% 92
22.5% 40 NA 0 74.4% 78 73.0% 74
32.8% 58 38.5% 78
rs7236745 AB_ASSAYS_ON_DEMAND 18 86.2005 57507312
forward LGD
TAATGTTGCATGCAAGTGAGTTGCTTTGTTAGCCTTGGCCTTGTGACCATGGGAGACAGTCAGAGAGGAAAGGAC
TGTGTACTTGCTGAATGAGGTATTG[A/
G]TCGAGAACTGCCATGTCCTAGCTGGCAGCTGCTGGTTTTTCTAAAATAATAAAAACAGCCGGGCATGGTGGCT
CACGCCTGTAATCCCAGCACTTTGGGA A/G 908 0.143 0.004
0.159 0.000 20.7% 198 73.7% 156 67.2% 58 73.8% 80
NA 0 12.1% 66 25.0% 40 25.0% 92
28.6% 42 NA 0 65.4% 78 82.1% 78 67.2% 58
73.8% 80
rs1030582 AB_ASSAYS_ON_DEMAND 18 86.6234 57884429
forward MIT
TTTAGAGGTGTCTTCTGGTTTTCTACTTGGAATAAAATGCCTGTAGCACTTTCTCCATGGGGATGAAGGAAGGAG
ACGGGCTATGGAGAGCCTGTTGATA[C/
T]CATCATTTGGTAGGCAGATATCCAATTAATCTCCTGCTTCCCTTCCTCACTCCTCCTTCCACATTACTGTCTC
ACTGAGTCTGAGGTCCCTGGACCTCCT C/T 1,333 0.105 0.012
0.241 0.013 81.3% 182 36.7% 150 24.1% 58 23.7% 80
NA 0 84.4% 64 71.4% 28 82.2% 90
76.3% 38 NA 0 37.2% 78 36.1% 72 24.1% 58
23.7% 80
rs1545812 AB_ASSAYS_ON_DEMAND 18 87.7863 58981010
forward LGD
ATGGCTGAAAAATCATTCCATGCATTTGAAACCACTGGAGGAGAAATGAACTTAAGCCATGGCAAGAAAGCACAG
TTAGATTTAAGGCGTGAACGTCAGC[A/
G]TTCAAGGTAATGGAAACCTTGGTAGCCCTGTAGATAGATTTTCAAGAGAGACTGTGAAATCCTCAAGTCAATT
AATAGAAGAATATTTTTCACAATAGCA A/G extended_map 0.107
0.019 0.078 0.233 39.2% 194 85.3% 156 72.4% 58
30.0% 80 NA 0 34.8% 66 32.5% 40 45.5% 88
42.9% 42 NA 0 92.3% 78 78.2% 78
72.4% 58 30.0% 80
rs8084931 RANDOM 18 88.8671 59733050 forward MIT

TTGCAAATGGGCCTCATGAATTAACTGTGCACCCCTTTATGTATGGCAGGTGGCCCTTGTTCTGTTANCATGGGT
CAATGCAACCNTTGAAGCAGTATAC[C/
T]GTATTTCTTATTGTCAGCCGGGTCCAGGACTTGGCAGATAAAAGTATTGCCTTCTGTTCTATTGTTGTACAAT
TCCAAGGAAAGAAGAGTATCTACATCT C/T extended_map 0.158 NA
NA NA 78.6% 112 22.3% 112 NA 0 NA
0 78.6% 112 NA 0 NA 0 NA 0
NA 0 22.3% 112 NA 0 NA 0 NA
0 NA 0
PAI2a45 RANDOM 18 88.8688 59733951 forward MIT
GAAACTTTTTTTGGAATACAAAATATCTACACCTTTTGAAAGATCTCTTGTCCCCACGCCCTTTTAATCTCTCTA
AAAATTTCTCTAGTTTCAAACTTTT[C/
T]CTTGCCTGCTTTTGCAAACTAAATGTGAAGAAAATTATGGCCTCAATAACATTTCATTCTTNTGNACTAACNC
TAAAGAAAACATTTTTATCCACTTNAG C/T 358 0.214 0.067
0.098 0.015 84.4% 180 20.8% 154 50.0% 58 33.8% 80
NA 0 82.8% 64 84.6% 26 85.6% 90
72.5% 40 NA 0 21.1% 76 20.5% 78 50.0% 58
33.8% 80
rs8086245 AB_ASSAYS_ON_DEMAND 18 91.635 61648333
forward LGD
GGTTCTGAATGTCTACATATTACTTCACATTTGGACAATAAAGCTTTAATGTCCATCTGGATAGAGTCATTTCTA
TTGTAATGAGATTATTTTCTACCTG[C/
T]GGACTGTGCTTGATAATCATCTGAATTTATTTTCTCTCTATACTATAATAAAACTTTGGTCCATATCCTTTTC
ATAAATAATGTACTATTATATTATATG C/T 612 0.208 0.000
0.349 0.001 35.4% 198 96.7% 152 98.3% 58 98.7% 76
NA 0 31.8% 66 37.5% 40 37.0% 92
23.8% 42 NA 0 97.3% 74 96.2% 78 98.3% 58
98.7% 76
rs1843188 APPLERA_RESEQUENCING 18 91.7892 61738899
forward MIT
TAACTCTACAGGGACTAAAAACCTGATTGTAACAAGTTTTACTCTATTGGTAATAGCACTGTGGAAGATATTCAC
TGTGCTCTATATTGTGAAAGACTTG[C/
T]TAAATAAGATTAAAAAAAAACAAATGCACAAATCTTAAGGTTAAAAATCAATAAATTTGATTATATCAAAAAT
TAAAGTCTTCTGTTTAAAAGGATAGTA C/T extended_map 0.092
0.008 0.073 0.016 14.3% 182 53.9% 152 42.9% 56
68.8% 80 NA 0 21.9% 64 14.3% 28 8.9% 90
15.0% 40 NA 0 51.3% 76 56.6% 76
42.9% 56 68.8% 80
rs511838 AB_ASSAYS_ON_DEMAND 18 92.79 62344579
forward LGD
ACGTTTGAAGAAAAATGTCTAAGCTGAATTTCTGCAGGAGCCATGGGTCCAAGTTCACGTTCATTCTGTTTTTGT
GATCTCTTCTACCCTATACTGTACG[C/
T]CCATACATTTCTAAAATAGTTCAATTTTGGTTCTAGGGAAAGTGCAACACAATAGAGAGCCTCTGAAATTTTT
ATATCCACCTTTTACTTTCCCAAATCC C/T 1,064 0.149 0.021
0.120 0.014 68.7% 198 14.1% 156 27.6% 58 5.0% 80
NA 0 63.6% 66 70.0% 40 71.7% 92
67.5% 40 NA 0 15.4% 78 12.8% 78 27.6% 58

5.0% 80
rs309210 APPLERA_RESEQUENCING 18 95.3317 64497432
forward MIT
CAAATCAAAATATACATTAAACACAGCAATAGCAAGTATTCTGATATTCATTTATATCTCAGTAGCCATAATTAT
AGAAGCTATTTAACACATTTGTGCA[C/
T]ATTTTATGGTAGAAAATGATCAAATAGACCTAGTATTTACGTGTATTTTATGCATTCATGACATACCTTTTTA
ATTTGTTTGATATTTCTAGGATACGCA C/T 1,770 0.158 0.002
0.248 0.001 51.8% 166 100.0% 150 100.0% 56 100.0% 74
NA 0 39.3% 56 55.6% 36 59.5% 74
42.9% 42 NA 0 100.0% 72 100.0% 78 100.0% 56
100.0% 74
rs1539964 AB_ASSAYS_ON_DEMAND 18 97.8493 65774254
reverse MIT
TGAGGACATATTTGGGGTTCTCAGGAAACTCACAGGACAGATGTGGGCCCCAGGGAGAGTATAAGATACATTGGA
GCTGAGACCTGCTGGATGGGAGAGG[A/
G]ATAAGAGGTGAGGAAACTCCACGTGCAAAGGCCCTGCCCCATTAGAGCATTGTCCTCAAATTACACAATGTAA
GTTGGATGAGCAATAAAGGCTAGGAGT A/G 964 0.255 0.011
0.434 0.001 97.3% 328 39.3% 308 26.8% 56 43.4% 76
98.5% 130 98.5% 66 95.0% 40 95.7% 92
92.9% 42 37.5% 152 41.0% 78 41.0% 78 26.8% 56
43.4% 76
CV1616421 AB_ASSAYS_ON_DEMAND 18 97.9445 65899322
forward LGD
AGTTTGACTCAAGAACAAGACCAATGTTTGTAAATATCCCTCTGAAAAGTTAGTGTCCTGAATATAAAAGAGCTG
TGACACACCAAAGACTGACACAGCA[A/
G]GAACTGGGTTCTCATATCCAGCAGGGGCCTGGTATCAAGGCCCCTGGTAGGAGTGCTAGATGTCAAGGGAAGA
CAGGCCGAGATACTTCATCTGCTCCTC A/G 311 0.344 0.002
0.560 0.019 86.4% 198 7.1% 156 3.4% 58 0.0% 80
NA 0 80.3% 66 80.0% 40 93.5% 92
81.0% 42 NA 0 3.8% 78 10.3% 78 3.4% 58
0.0% 80
rs3911730 AB_ASSAYS_ON_DEMAND 18 98.0366 66020312
forward LGD
AAAAAAATCTAATCTCCCTTTCCTTAAAATTTACCATTAGAATTAATATATTTGTATTTAACAGATTCCAAAGAG
TTACCAGTTTGATTGGTTTGGTATG[A/
C]GGCAGAAGATAGTGCAGGAACTTCCGAAGGAAGAAGAAAAAGTCCATCCAGAATGCCATCAATTTCAGCCTGC
AGATTTGGCTCCACATTAGACCGAAGC A/C 91 0.343 0.003
0.567 0.022 13.1% 198 92.3% 156 96.6% 58 100.0% 80
NA 0 21.2% 66 15.0% 40 6.5% 92
16.7% 42 NA 0 96.2% 78 88.5% 78 96.6% 58
100.0% 80
rs634392 AB_ASSAYS_ON_DEMAND 18 100.8609 68365014
reverse MIT
GCTCATTACAGTTTGGATCCCCTTCCTCAATTTCACTACCTTTTTCTCGTATGTGAATCTGGTGTTAATACATAT
CTTCGCAGCCTGGGTGCATTTATGG[C/
T]GCAGGAAGCTAGGACAGAGTATGCAGAGGATGCCCATGGAAAACAGATGCTGCGTGCACAAGGTCAGAAATAA

AATTCAGCCATTGCTGACTTGTGGCTT C/T 1,307 0.23 0.000
0.374 0.417 74.2% 198 7.7% 142 5.6% 54 80.3% 76
NA 0 69.7% 66 82.5% 40 73.9% 92
80.0% 40 NA 0 13.2% 68 2.7% 74 5.6% 54
80.3% 76
rs4892047 AB_ASSAYS_ON_DEMAND 18 101.9458 68633796
forward LGD
TAAATGTTAGAGATTTTTTTTTAAACCAACAAAGTAAAGATTCGGTACAAATACCAAAAGATTGCTGATATTCAA
AAACCTACATATGGAGACAGAAACC[A/
G]CCCTATAGGAAGGAGCCTGTAAGGTAGCACCAAGTATTAATACCGAATGCCTAATCACCTCTTAGCGTGAGCT
AGGCCTAGTGACTCATTTCTAACAAAT A/G 1,530 0.234 0.022
0.211 0.061 80.4% 194 13.2% 152 26.8% 56 38.5% 78
NA 0 80.6% 62 90.0% 40 76.1% 92
71.4% 42 NA 0 11.8% 76 14.5% 76 26.8% 56
38.5% 78
rs1943798 AB_ASSAYS_ON_DEMAND 18 103.5339 69181169
forward MIT_and_LGD
TAAACTGAGGCTCAGAAAGACTAAGTAACTTGTCAGCAAAATGCAGATATTTAATGTAAGCATAGGTCAGATGAC
TGTAAAGTTACTCTTCTTTTCAACT[A/
G]CACTTCCAGGGACCTTTACATTTTATAAGTAAGTGTATTCTTTCATCTTAACAAAACAACTTGGAAGAATAGC
TCTGGTATCTTCTTGCAACTGGTGTTA A/G 395 0.205 0.140
0.027 0.039 7.6% 198 64.7% 156 20.7% 58 41.2% 80
NA 0 4.5% 66 7.5% 40 9.8% 92
4.8% 42 NA 0 60.3% 78 69.2% 78 20.7% 58
41.2% 80
rs1113144 AB_ASSAYS_ON_DEMAND 18 106.1724 69923755
forward LGD
ACAAGTAAAAATCAAGTCTTGTTAGATCTATAAGAAAAGTGAAGTCACAGGGCAAACCACTGTCCCAAAATTGGA
GAGACAGACAGGAGAATACAGAGAC[G/
T]CGTAGCTCTATTGAGCCAAAACCTCCATAGCAACCAGTATAAAAAAAAAGGGAAACCTGAGCTGTAAATGATAA
GCTGCTAGAGACTCAGTGTGGGCAAGT G/T 1,268 0.118 0.067
0.033 0.021 59.7% 196 11.8% 152 37.9% 58 25.0% 80
NA 0 53.0% 66 55.0% 40 66.7% 90
66.7% 42 NA 0 9.2% 76 14.5% 76 37.9% 58
25.0% 80
rs8096427 AB_ASSAYS_ON_DEMAND 18 108.2172 70348322
forward LGD
ACTGGCATCGAGATGGAGATCTGTGAAGATGGAAGACTGAGAAGGCAAAATAATTGGAATTCTTGTAGGAGCACT
TTCCCCTGGACCTGTGTTTGGCTTC[C/
T]GTTCTTGCTAATATCTGTTGGAGTCTTTCCTTCCTTCCTTCCAAACTATATTAGTAATAGAATCAAATGTCTT
CTTTTGTAATCAACTAACAAAACATTT C/T 1,637 0.128 0.112
0.517 0.014 22.7% 198 73.1% 156 100.0% 58 85.0% 80
NA 0 25.8% 66 17.5% 40 22.8% 92
16.7% 42 NA 0 74.4% 78 71.8% 78 100.0% 58
85.0% 80
rs1865722 AB_ASSAYS_ON_DEMAND 18 110.5863 71256584

reverse MIT
GAAAGCACTGCGGCCAACATTTCTCCTGGTCTGCTCTGGGTTTCAGTGAAGGGCAGGCCTGGAAGCACCTTGGGA
AATGAGGTAGAGCCAAGCTAACCCT[A/
G]GAGAGCCGTTGAGCTTACGGAGGGTTGAGTGATTACGCAGGCATAGTCTTGAGTTTTATTTTCAGTTTGAATA
CTGCTAACTAGTCTGTACAGTCACAGG A/G 1,364 0.134 0.134
0.007 0.276 78.6% 196 27.3% 154 70.7% 58 87.5% 80
NA 0 78.8% 66 75.0% 40 80.0% 90
85.7% 42 NA 0 30.3% 76 24.4% 78 70.7% 58
87.5% 80
rs868859 TSCAF 18 110.9824 71623167 reverse MIT

TTTTCTTTCTATTTTTGTTTTGAAAAGGAAAAATAATCAAAATAAAAGAAGAGAGGGGGAAAGAGGAAGAACAGG
AGCCCCCAGCATTCGCATGGAGAGG[A/
G]GAGCGGGAGCGAAGTGCAGGGACCTGCACACAGCCCTGCCCGGGTTTGCTTCCTAATAACTCCCTCGGCTCCC
CAATCTGTTTGTTATTATCCTTTGGAT A/G 999 0.203 0.000
0.345 0.001 60.1% 198 1.3% 156 0.0% 58 0.0% 80
NA 0 53.0% 66 62.5% 40 64.1% 92
45.2% 42 NA 0 1.3% 78 1.3% 78 0.0% 58
0.0% 80
rs4891017 AB_ASSAYS_ON_DEMAND 18 112.1776 72224936
forward LGD
GCATCCTCCGGCCAGTTTCCTGAGCTGCTATTCCTACAAAGCGGCCCTTCCAAAAACCAACTTCCTCCTGAAACG
CATCCCCATGCTCTCTCTGCAAGAC[A/
G]CTTTTCTTGCCTAACTTCGTAAGTGTTTAGAATAAAGATTTTTCTCATTTCTGCCCCTCTATATTGGGCTTCG
TAAAAGCCATTATTTCTTTCCACCCAT A/G 140 0.33 0.002
0.459 0.001 1.0% 194 66.7% 144 72.2% 54 62.8% 78
NA 0 0.0% 62 0.0% 40 2.2% 92
2.5% 40 NA 0 63.6% 66 69.2% 78 72.2% 54
62.8% 78
rs874299 TSCAF 18 115.3495 73183261 forward MIT

TTTTTCTGCATCTGTGCATACTCCCCACTTCTTTCCATCCCGTCTCTAGCCATCCCCAGGAGGTTTTCCTCCACT
TCCTCCACTTCAGGCCCCTTGTCTG[C/
T]ACTGAGAATAAATAAACATAGAGGGAGTGCTGGCCTCCCGCAGAGCTACCGGCCTTTATGAAGGATGAGGCTC
TGAGGAGTGATGGAAACTTGCCCCTCG C/T 606 0.244 0.170
0.032 0.072 93.3% 180 30.7% 150 79.3% 58 62.5% 80
NA 0 92.2% 64 100.0% 30 91.9% 86
92.5% 40 NA 0 28.9% 76 32.4% 74 79.3% 58
62.5% 80
rs2472640 AB_ASSAYS_ON_DEMAND 18 120.2418 74850035
forward LGD
AAACATAGTTGTTACTCGGCACAAGAGGGTAAGGGGAGACGGAGGAAGTGGCTGCCTACAACAGTAATTAAACAT
GTGTAACCAATTAGAGGGTTTTCCA[C/
T]TATGGCACAAGCATATAATTTGCTAAGTCTTCTATGAGAATAGATGAAAATAGGTACAAAAAGTGTGTCTGAC
TACAACATTCTCATGTTAAACATGTCA C/T 1,279 0.112 0.011
0.253 0.060 26.0% 196 73.6% 148 84.5% 58 95.0% 80

NA 0 15.2% 66 27.5% 40 33.3% 90
26.2% 42 NA 0 68.9% 74 78.4% 74 84.5% 58
95.0% 80
rs2278801 APPLERA_RESEQUENCING 18 121.0579 75307992
forward MIT
ACGAGGCCATCCTCTCCAACACCAAAGTCCTGGAGATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTGTAAG
CCGCGGGGGACCTCCGGCCTCTGGC[A/
G]GGGGGCGGTAGGAGGGGGCGTGCCTCCCTCCCAGTCCCGGGGGGTCTGGCCAGCCCCCCGCACTTCCAGGCTG
CGTGGCCAGGACACTTTTGGTTTAACA A/G 1,671 0.084 0.013
0.207 0.001 79.1% 196 39.0% 154 25.9% 58 42.5% 80
NA 0 73.4% 64 87.5% 40 79.3% 92
76.2% 42 NA 0 39.5% 76 38.5% 78 25.9% 58
42.5% 80
rs891486 AB_ASSAYS_ON_DEMAND 18 121.4893 75785384
forward MIT
GACCCAAGAGTCCTTTCCTGGGGTCTGGGTGGGGAGCCCTTTCCAGTAATAAACATGAGAGGGACAGAGAATGCC
AGAGAGCTTCCTGTTGGGACTGGGA[C/
T]GGCTGGAGGGCATCACAGCACTGGTTTCGAACACTGAACGGAGAACTGCCATGCAACAAGAACCTGGGCACAT
CAGACCCCTGCAGGCACCCTCGGGACC C/T 949 0.108 0.021
0.288 0.016 60.8% 194 14.5% 152 3.4% 58 26.3% 80
NA 0 69.7% 66 47.5% 40 60.2% 88
65.0% 40 NA 0 12.2% 74 16.7% 78 3.4% 58
26.3% 80
rs1942629 TSCAF 18 121.6424 75954754 reverse MIT

GTTTCAGAAGACACATTACCATTTTGCAAAAACATAGTTTATTATTTAGGACATGCCCTATCTAAGGAGGAAAAA
GCATTCTCTTCTGATAGACTACCCA[A/
G]GTTTATTCCAGATCTCTCACAGAATGACAATTGAGAGGATTTCTAGGTTTAATTGGATACTGCAATAAGGGCC
AAATTTTTCTAAAATTGCTACACTTTT A/G 1,498 0.075 0.243
0.025 0.052 44.4% 198 83.1% 154 25.9% 58 58.8% 80
NA 0 43.9% 66 47.5% 40 43.5% 92
37.5% 40 NA 0 86.8% 76 79.5% 78 25.9% 58
58.8% 80
rs753719 TSCAF 19 0 362849 forward MIT
TAGGACACAAATCCAGAGCTGGTCAATCAGGGCTTGAATCCTGGTGCCAACCCTTCCCACTGTGTGACGCTGGAC
AAGCATCCAGACCTCTGTCTCTTCA[A/
G]CAGCCCAGGGCACCACGGCTCTCGAGGGAGGGCTCAACAGATCACTATGTGCAAAGTGCCTACAGCACCCCAC
CATGTGTGCGAGGCAGGCGTCAGTCGC A/G 536 0.278 0.000
0.339 0.020 99.0% 312 42.0% 264 41.4% 58 58.8% 80
100.0% 114 98.5% 66 100.0% 40 97.8% 92
97.6% 42 40.2% 112 43.4% 76 43.4% 76 41.4% 58
58.8% 80
CV1438447 APPLERA_RESEQUENCING 19 0.0967 983369 forward LGD

AGAGAGAGGCCGTGAGTTTGCCCAGGAAGGCGTGAGCTTGGCTGAGATCAGCATCGGGTCTTCACGGTTCCTCGC
TGCTCACAGAGGTTTCTGTTTCCCC[C/

T]GCCCCATGTTGTGCCCTCCAGACTCATGAACAAGCTACAGCCGGGCTCCGTCCCCAAGATCAACCGCTCCATG
CAGAACTGGCACCAGGTGAGGGGCTGG C/T 2,045 0.044 0.003
0.045 0.001 57.1% 198 85.3% 156 81.0% 58 88.7% 80
NA 0 62.1% 66 32.5% 40 64.1% 92
66.7% 42 NA 0 85.9% 78 84.6% 78 81.0% 58
88.7% 80
rs740450 AB_ASSAYS_ON_DEMAND 19 0.8975 1262716 reverse MIT

GAGGCGGGCTTGGAGGTCCACGGTCCCGCCATGGATGCTGCAGGGGCCACTTAGGTTCAAGCCCTCCGAGGGCTC
CCTGCCACCCTCAGGAGCAGCCCAG[C/
G]CACGGGGCTTCTCAGCTCACGCCTCCCTTCGGCCACCAGGCCTTCCCTCGCGCCTGCAGTGGCCTCACCGCAC
TTCTGTGGGGTGACCTCCTCCTCCCCA C/G 143 0.316 0.053
0.253 0.042 18.9% 164 95.5% 156 77.6% 58 80.0% 80
NA 0 27.6% 58 18.8% 16 13.3% 90
13.2% 38 NA 0 96.2% 78 94.9% 78 77.6% 58
80.0% 80
rs1009881 TSCAF 19 2.5998 1609998 forward MIT
GAGGGCCAGGGGGCGGGGGCGGGTGGCACTGATGGATGTGCCACCCACCCCCATCCGGGCCATCCTGTCTGGATC
CGGGACCCTGCCCTCGCCCCTCCCT[C/
G]CCTCCGTCAGACCGGCCCTGCACTCCACAGACATTGTATGTCTTGCTGCTGCCCAGAGCCCGAAAGTCCCTGC
CCACCTCCCCGTCTCCGCCACTCCTGG C/G 1,137 0.191 0.058
0.067 0.128 99.4% 336 57.8% 308 84.5% 58 93.8% 80
100.0% 138 100.0% 66 100.0% 40 97.8% 92
100.0% 42 52.6% 156 72.4% 76 53.9% 76 84.5% 58
93.8% 80
rs6510653 AB_ASSAYS_ON_DEMAND 19 6.0445 2209223 forward LGD

AAGGCAGAGACAAACAGGAAACAAAGAGAAGCTGAAAGCAAAAACTGTAAAGCACCTGTCATCTTCCCGCCCCCA
AACAGACACTGTTTAATAGTTTGAC[A/
G]TGTTCTTTCCGCTGTTTGTAACTTGTGATTTTATTATTAGTTCCATATTTATTTTTATAAAGCTGGCATAATT
AGCGAAGGGCTGAACATCTTGTTTGTA A/G 1,324 0.166 0.057
0.079 0.159 70.7% 198 13.3% 150 37.5% 56 57.7% 78
NA 0 69.7% 66 70.0% 40 71.7% 92
78.6% 42 NA 0 14.5% 76 12.2% 74 37.5% 56
57.7% 78
rs759072 AB_ASSAYS_ON_DEMAND 19 8.4278 2679971 forward MIT

ACATGGCCCGGTGTCCCCTGGGGGCAGAAGATCCCCGGCTGGGAGTCACAGAGTCAGTAAAAGAGACCCCCAAGG
AGGAGGACCCTTGGCTTCTGCAGGT[A/
C]ACGTGACATTTCTGTGACTCAAAGTTGTGTAGAGATGGAGGCGGCCATGTGCAGCTGGAGCTGGCCTGCTCTG
CAGTGTCGTGACGTCGTTTTGAGGCAG A/C 1,097 0.122 0.068
0.040 0.107 49.0% 290 94.5% 256 72.9% 48 64.5% 76
56.7% 104 45.5% 66 44.7% 38 43.9% 82
60.5% 38 97.3% 112 91.7% 72 93.1% 72 72.9% 48
64.5% 76
rs8110664 AB_ASSAYS_ON_DEMAND 19 9.0065 2834136 forward LGD

AACTAGAGTTCCTCACAGGGTGAGGAAGAGTTATGGTCATCTGCACAGTTGTAGCCCGTTGCGAGTGTTTTCCCA
TGTGCACAGTGATATCTAGGCAAGT[C/
G]TGCCATGATTTCCTGGTGAGGATAAAATCTATGGACGGTGAGAGAACTAGTCAAGGAATAACTGAAGTGAGCT
GCAGACAGGATTATCATTTTGAGTAAC C/G 298 0.252 0.000
0.404 0.003 29.6% 196 97.4% 154 98.3% 58 100.0% 80
NA 0 27.3% 66 25.0% 40 33.3% 90
31.0% 42 NA 0 94.9% 78 100.0% 76 98.3% 58
100.0% 80
rs350842 TSCAF 19 13.8552 4012781 forward MIT
AGGCAGGAAGGCCGTGGGGACCCAGTGGGAAGTGTGACAGCGGGGATGGGGGCAGCGATGAGGAGGCCAGGGGGA
TCCCATCTGACGCCCAACTCATGGG[C/
T]GGGACTGAGGCCCACCCTGTTCCCACACTCTGAGATGTCATGGGCCAGGAAGCCCAGACTACAGCCCGAGCCC
AGGTTCCAAGAGGAAGCTTCATGACGA C/T 1,239 0.108 0.000
0.196 0.032 59.4% 330 98.1% 308 100.0% 58 88.2% 76
62.1% 132 56.1% 66 62.5% 40 56.5% 92
71.4% 42 99.4% 156 97.4% 78 95.9% 74 100.0% 58
88.2% 76
rs2277733 AB_ASSAYS_ON_DEMAND 19 15.9722 4665044 forward LGD

TGTGGCTGAGCCTCGAAGGACAGCATGCCCAGGGCCCAGCCATCCGAGCAGATCTTCCAACTCCTGTGGACCTCT
GGGAACAGAGAGGACCAGGGAACTG[C/
T]GGTCCCAGATGCTGTCCCCGCCCAAGCAGCCTGCAGGGCCCGGCTTACCCAGGTAGTAGAGGCGGTGGGAGTG
GGGCCCAGACTCATCCGTCTTCTGCAC C/T 1,822 0.087 0.072
0.009 0.000 28.8% 198 71.1% 152 39.3% 56 70.0% 80
NA 0 33.3% 66 27.5% 40 26.1% 92
14.3% 42 NA 0 68.9% 74 73.1% 78 39.3% 56
70.0% 80
rs759993 TSCAF 19 17.046 5031200 reverse MIT
TAAGCCATCAGAACTGGTGAGGCTTTCAGAAGCCAGCCACGGCGTCAGACATCAATCAAAACTGACACAGCTTGG
AAAAATGCCAGTCCTTAAGAACACT[A/
G]TGATATTTTTCTTTTCAAATAATTAATTGCACCAATCAAGGGAAGTCAGTGTGCATTAAGTTATATTTTTAAA
TTCCCATTCAAGTGACAGCCACGTGCA A/G 1,891 0.079 0.026
0.239 0.072 79.4% 326 40.9% 298 22.4% 58 12.5% 80
80.3% 132 79.7% 64 76.3% 38 79.3% 92
59.5% 42 42.6% 148 38.2% 76 40.5% 74 22.4% 58
12.5% 80
rs886933 TSCAF 19 17.6783 5284960 forward MIT
TAATGAACTGGTGAATATTCGAATGAATGCATGCATGCTCGCTCGCACACCATGCTTGTCAACCGATCACTTTCC
TGAGTGCCCATCAAATGACTGCTGT[C/
T]AAACCCCCAAATCCCCCCCAAACTCCCCCCTTTGGTGATCACTCGGGCCCACCAGGGGCTCTGGAAGTTGGGA
GCCACATGTGGAGTCCCTGGAGTGCCT C/T extended_map 0.105 NA
NA NA 2.9% 136 35.5% 152 NA 0 NA
0 2.9% 136 NA 0 NA 0 NA 0
NA 0 35.5% 152 NA 0 NA 0 NA
0 NA 0

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rs886934        TSCAF   19      17.6785 5285060 forward MIT
TAAACCCCCAAATCCCCCCCAAACTCCCCCCTTTGGTGATCACTCGGGCCCACCAGGGGCTCTGGAAGTTGGGAG
CCACATGTGGAGTCCCTGGAGTGCC[C/
T]GGAGCTCCCAAGGCAGCCACGTGTCCTCCCTGTCCACCATCCAGGCCCCCTGTGGTTCAGCTCCCGCCAGTCG
CCCAGTCCTGCCGCAGAAGTGGGGCGG     C/T             1,661   0.132   0.000
0.167   0.085   1.2%    328     34.2%   310     35.2%   54      68.8%   80
        3.0%    134     0.0%    64      0.0%    38      0.0%    92
4.8%    42      35.9%   156     26.3%   76      38.5%   78      35.2%   54
        68.8%   80
rs535765        TSCAF   19      17.9308 5386309 reverse MIT
CTATTTGGAGCCAACAGATTTCATTCTAGAAGTATTGGGTTGTGGGGGAGGTGGATCGGTCGTTCCTGCACAGGA
CTGGACCCACAGTGGCAGGAGGGGT[A/
G]AACAGTAGTGGGATAGTTGGGTGGTCTTTTCCTTCCCCCACTGCCTACTCCAGTCCTCTACATTCAAGGCCAA
ATGAATGAGTGAGTCACCTCCAGCTGA     A/G             1,984   0.075   0.001
0.112   0.000   94.5%   330     66.2%   308     63.8%   58      67.5%   80
        94.8%   134     95.5%   66      97.4%   38      92.4%   92
97.6%   42      70.8%   154     66.7%   78      56.6%   76      63.8%   58
        67.5%   80
rs2436486       APPLERA_RESEQUENCING    19      18.8141 5740805 reverse MIT

TTGTAGGGCTTGTCATTGTTCTCATTGTATAAATGGAGATGCAGAGGCACGGTGAGGTGCCTGACTTGCTCAGGG
ACACAAGAGCCAGGAGGGGTGATCT[A/
G]GAGTTTGAACCCTGGCTGCTGGGCTGCCCCGGGGTCTCCCTGTCCTCCCTCACTGCTTCCCTGTTTCCTCGCA
GGAGTCGGCTGCTAAGTGTTTCTTCGG     A/G             796     0.213   0.000
0.360   0.000   61.9%   176     1.3%    156     0.0%    58      1.3%    80
        NA      0       64.1%   64      58.3%   24      61.4%   88
60.5%   38      NA      0       1.3%    78      1.3%    78      0.0%    58
        1.3%    80
rs1865028       AB_ASSAYS_ON_DEMAND     19      19.3754 5966066 forward LGD

CCTCAGCAGGCAGCAGCCTACTGCACTCTCTGGGCCACCAGCTTTGGGTTGGAGGTGCTGCTGTTTCTTTCTGTT
AGAGGAGAGTTGGCATAATTGCCTG[C/
T]GATAAGTCTGTGGCCTGTGATGTCCCGGGGCTGCCATAGGCCAAGAGAAGGCGGGGTGGATTGGTCCAGGTAC
AGCAAAAGACACCAAGAGGCCGGGCAC     C/T             276     0.267   0.000
0.429   0.018   30.8%   198     99.4%   156     100.0%  58      93.8%   80
        NA      0       28.8%   66      20.0%   40      37.0%   92
9.5%    42      NA      0       98.7%   78      100.0%  78      100.0%  58
        93.8%   80
rs1049343       AB_ASSAYS_ON_DEMAND     19      20.3377 6319874 forward LGD

CCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTCTTGAGGAACTTTTAATTTGCAGGGGT
GCCCGCTATGGACGGGGCATTCCAG[C/
G]TGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTTTGCTCTGCGTCTGGGACACCCTCCCTTCTGCACCA
TGACAGCGTGTACACATCTGTGTTTCA     C/G             491     0.238   0.002
0.421   0.003   68.4%   196     2.6%    154     0.0%    58      0.0%    80
        NA      0       78.1%   64      60.0%   40      65.2%   92
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66.7%   42      NA      0       0.0%    78      5.3%    76      0.0%    58
        0.0%    80
rs8103745       APPLERA_RESEQUENCING    19      20.6834 6405651 forward LGD

TCTCTCCAGAGCCCCTCACCTGCATGAAGACCTTGAGGCGGTCCAGAGGGGCCGTGCCTGTCCGTGACACGGCAC
CTGCCACTGCGCCGGCCACCAGCTG[C/
T]TTCCACCACATGCCCGTCAGCTTCTCTTGCTTTGAGAACTCGTCCGGCACTGTCAGGCACTCGCCAATGTCCA
GGACCTAAAGATACAGGTGTTGGGGGT     C/T             extended_map    0.218
0.000   0.368   0.001   37.2%   196     98.7%   154     100.0%  58
100.0%  78      NA      0       29.7%   64      37.5%   40      42.4%   92
        33.3%   42      NA      0       100.0%  78      97.4%   76
100.0%  58      100.0%  78
rs897739        TSCAF   19      22.485  6852715 reverse MIT
ATGCACTCTGAGTGTTGATTTTCAGCAGACAGGGCTGATGCTCCCCAATATCCATGTTCCCCCCTTCTTCCCAGG
CACACAGTGGGACATATTTCCCAGT[C/
T]CCTTCTTTCAGTAGGCATGGCCATGAGAGCAAATTCTAGCCAATAGCATGTAAGCAGAAGGGTGGCAAATAGT
TTCAAAACATAATTATCAGAAATTGGA     C/T             extended_map    0.087   NA
        NA      NA      30.6%   134     73.0%   152     NA      0       NA
        0       30.6%   134     NA      0       NA      0       NA      0
        NA      0       73.0%   152     NA      0       NA      0       NA
        0       NA      0
rs443658        AB_ASSAYS_ON_DEMAND     19      22.4939 6854920 forward MIT

GATATTGATGAATGCACTGAAATGTGCCCCATCAATTCAACATGCACCAACACTCCTGGGAGCTACTTTTGCACC
TGCCACCCTGGCTTTGCACCAAGCA[A/
G]TGGACAGTTGAATTTCACAGACCAAGGAGTGGAATGTAGAGGTGAGCAGAGAGTTTGATGGACAATCCAGAAA
AGACATTTCTCTTTGCTCTTCTGGGTT     A/G             1,831   0.092   0.120
0.001   0.060   66.8%   322     23.4%   304     63.8%   58      51.2%   80
        66.9%   124     65.2%   66      67.5%   40      67.4%   92
69.0%   42      27.7%   148     17.9%   78      20.5%   78      63.8%   58
        51.2%   80
rs370094        AB_ASSAYS_ON_DEMAND     19      22.4947 6855137 forward LGD

TTCTTTGCAGATATTGATGAGTGCCGCCAAGATCCATCAACCTGTGGTCCTAATTCTATCTGCACCAATGCCCTG
GGCTCCTACAGCTGTGGCTGCATTG[C/
T]AGGCTTTCATCCCAATCCAGAAGGCTCCCAGAAAGATGGCAACTTCAGCTGCCAAAGTAATAATCTCTTTGTA
TGTCTTGGCAATGGAATCTGTTTCTGG     C/T             extended_map    0.118
0.146   0.002   0.079   68.6%   194     19.5%   154     63.8%   58
51.2%   80      NA      0       66.7%   66      73.7%   38      67.8%   90
        66.7%   42      NA      0       17.9%   78      21.1%   76
63.8%   58      51.2%   80
rs1025281       AB_ASSAYS_ON_DEMAND     19      24.07   7346670 reverse MIT

CAGGTTATACCCACCTTGCCTGGGCTCTCTGCAGGGGTCCCGCCCCCAGAGAGACACCCTTGAGTCCAGGTCTTC
AGCCCTCCTCCTGGCAGGTTCAAAG[C/
T]AAGGCTGGCCAGTGTTCGGGGGAGACAGGGTTCCTCATCCACAGCTGAGGCATCGAGGCTGAGCCTAGTGGAG
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AAGACAGGGTACTGGGGCTTCAGCAGG     C/T             1,567   0.165   0.002
0.260   0.225   49.7%   322     0.3%    298     0.0%    56      41.2%   80
        54.8%   126     46.9%   64      55.0%   40      42.4%   92
47.5%   40      0.7%    144     0.0%    78      0.0%    76      0.0%    56
        41.2%   80
CV25600128      APPLERA_RESEQUENCING    19      24.07   7366003 forward LGD

AGGTCCCCGGGAGCGCCCCGCCCTCGAGGGCACGCCTCCTTCCGGGTCACGCCCTCTGCCCCGCCTCCGAGGCGG
GATCGCGCATGCGCTGCTCTCCTCG[A/
C]GCGGCTTCCCGCTTCCGGCTCCCAGCTGCTAGCTACTGTGGATCTGGGGGGGCCGGACGGAGGCATCGGAGGC
GGCTGCGAGAGTGGCAGAGGAGCTGGC     A/C             extended_map    0.09
0.002   0.137   0.001   68.7%   198     100.0%  156     100.0%  58
100.0%  80      NA      0       66.7%   66      52.5%   40      77.2%   92
        66.7%   42      NA      0       100.0%  78      100.0%  78
100.0%  58      100.0%  80
rs3865463       APPLERA_RESEQUENCING    19      25.7185 8074326 forward MIT

CATTCACTTTTTTCAGCCTTTTTTGAGCAGTGCACAACCTGAGCAACTGTTCATGGCAGCTCTGGGCTCCTGAGT
CCTGCAGCTTTGTTTACTGCCACAT[A/
G]TCAGCACTTCATATATGCTTACCCTCCCTCTCCATAGGCTTGAAGGCTCCCAGCAGTTCCTCCCATGCCCAGG
TGCTGCTTCTGTGACTGCCAGTTCCCT     A/G             1,131   0.147   0.004
0.172   0.013   68.9%   180     14.6%   144     20.0%   50      25.0%   76
        NA      0       59.4%   64      78.6%   28      72.7%   88
66.7%   36      NA      0       16.7%   72      12.5%   72      20.0%   50
        25.0%   76
rs1865056       TSCAF   19      28.4932 9089829 reverse MIT
TCCTCTATATGTATAATTATATGTATATTACACAAATATATTCTAATTGTATAATTTTAGGATTAGCTGTAGTCT
CAGTGCTCCCGTGCAAAACTGTTTA[A/
C]TGTGTCTTCACTAGGAAGATTACTCTGTAGAGAAATACTTTCATTTGAGAAGGAGATGTCGAGTGTAAGACAA
GACAGGAGAAAATGGAAGTTGGCAAGA     A/C             517     0.237   0.044
0.560   0.002   10.6%   274     75.0%   232     94.2%   52      70.5%   44
        9.8%    132     15.2%   46      10.0%   30      9.1%    66
21.4%   28      69.7%   152     88.1%   42      81.6%   38      94.2%   52
        70.5%   44
CV25747160      APPLERA_RESEQUENCING    19      28.7933 9268634 forward LGD

ATTTGGAACTTGGCTGAAAGTCTGTCCATCTTGATTTTCTTCATAACATTCATAGATGTTCTCTACCATATGATT
TCTTTTAAAAATAAAAGACACATTA[A/
T]TAGTAATAAATTTCTACCAATTTCAGTGAATGTATATGTTTTCTGCCCTTCTGTCAAGTTTAAGCTGAAAGTT
TTCACAGAGGGCTCTACGACAGCCAAT     A/T             1,778   0.096   0.002
0.126   0.020   48.5%   198     90.4%   156     87.9%   58      98.8%   80
        NA      0       37.9%   66      47.5%   40      56.5%   92
47.6%   42      NA      0       88.5%   78      92.3%   78      87.9%   58
        98.8%   80
rs1833791       TSCAF   19      29.4529 9661576 forward MIT
TTTGACATGAATGTGCCACACTGGCAGCTACTAACAGGGGCTGGGACCAATCTAGATGACTTATCTCATACAGAA
```

ATTCTTAATGCTATGATCTTAGAAA[C/
T]CTAATCACCAAGGTAAGGTAGCCTGCAGTACTGACCTCACCATCCATTACCCTTCTTCACAGATGCCCAGACT
CAGGCAACCATGATGTTGTATTCAGAA C/T extended_map 0.173
0.182 0.008 0.024 77.6% 322 19.5% 298 69.0% 58
6.4% 78 81.5% 130 74.2% 66 75.0% 36 75.6% 90
73.8% 42 16.7% 144 23.1% 78 21.1% 76
69.0% 58 6.4% 78
rs322135 TSCAF 19 31.7626 11240717 reverse MIT
GTAACTTAAACTCCCAAAGGCAGGCCTGGACACCCTGTGTTGGCTTCTGGCTTCCTTCCCCGGCTCCGGAAACAG
CAGAAAAAACAATCCAACACGTCAG[C/
T]GTCTCCCTTGGTTTTGTGCTCTCCTGACGCCACCTCACTGGCCCCGTGCCAGTGGAGCACTGAGGTTGCTGCG
CCCACTTTGTAGATGAGGAAACTGAGG C/T 271 0.253 0.139
0.069 0.033 18.0% 328 87.2% 304 46.6% 58 70.0% 80
22.4% 134 9.1% 66 7.9% 38 22.2% 90
23.8% 42 90.1% 152 77.6% 76 90.8% 76 46.6% 58
70.0% 80
rs694857 AB_ASSAYS_ON_DEMAND 19 31.9326 11443747
forward LGD
GGGCCTCTGTTTCACTTTGCTGAAAATTCAGAACAATTGGCAAGGGCTATATGAAGGGCTATGTAGAGGAGAATT
TTAAAGCCACTTCAGAAATCAGCAG[C/
G]AAACAGTGCTGGGATTTGACTGACCTTATCTGTCAGGGACATAAGAAGGTCAAGTAGCCAGCATTTCCTTACA
TCTTCTTCAGTGGCACAGTTGGCACAT C/G 822 0.21 0.032
0.491 0.002 81.8% 198 18.2% 154 3.7% 54 22.5% 80
NA 0 72.7% 66 85.0% 40 87.0% 92
78.6% 42 NA 0 12.8% 78 23.7% 76 3.7% 54
22.5% 80
rs2900918 AB_ASSAYS_ON_DEMAND 19 33.7234 13366333
forward LGD
TTCATCAAGAAACAGTTGGAAGATCTCGAGGACCAGGTGAAGGTTTGAAGCAGGGTTGGGGTGAATTTAATAAAG
TGTTGATTAAACGTTGTCAGGGGAT[C/
T]CTGAAGACTCAGCTTAAGAGGATACCTGCAGGAAAGAAAGGAACTCTTCCTGCTTCTTCTCTTGAACAATTTT
GGCTTTAACGACCATTTCCCCACAAGG C/T extended_map 0.314
0.035 0.303 0.076 20.7% 198 96.8% 156 84.5% 58
75.0% 80 NA 0 12.1% 66 15.0% 40 29.3% 92
28.6% 42 NA 0 97.4% 78 96.2% 78
84.5% 58 75.0% 80
rs693151 AB_ASSAYS_ON_DEMAND 19 34.4766 13729117
forward LGD
CTAGCAGGCAGGAAGTTCCTGCTCAGTTACAATGGTTGTGATTCTTTTTCTTCCATATATCCATTTCCTGTGTAA
TGTGAGTGCAGCAACTCCCGTTAAC[A/
G]GGGCAGTCTAATACCCCACCCCTCAAATCACAACCGCGGCCAGAGTCGCAGGTGTGGAGACCCAGGGAGTGTC
CAAGTGGACAAGTGCAAGTAAGATGCT A/G extended_map 0.056
0.009 0.141 0.002 82.0% 194 50.6% 154 38.9% 54
56.2% 80 NA 0 81.2% 64 78.9% 38 83.7% 92
97.6% 42 NA 0 50.0% 76 51.3% 78
38.9% 54 56.2% 80

rs1531212 TSCAF 19 34.6815 13812830 reverse MIT
TTTGATACCTCTTAAAGCATTTTTTGGAGTTTGCCCTTCACCTTGGAAAGCTGGGTGGGGGATTCTGTCCTCCAT
GAATAACGGCGCCAGGAACCTTGGG[C/
T]GATCTTGAGAAAACTCCTTCCTGTAACCTCTGTTTTCCACGTTGGATGTGTTTTAGGCCACAGTCAGGCCTGG
CTTTTTTTTTTTTTTTTTTTTAAGACT C/T extended_map 0.2 NA
NA NA 79.8% 124 17.1% 146 NA 0 NA
0 79.8% 124 NA 0 NA 0 NA 0
NA 0 17.1% 146 NA 0 NA 0 NA
0 NA 0
rs877701 TSCAF 19 34.798 13860426 reverse MIT
GGGGGTCCTGATATGATTCTTTTCCAAACATACATAAGTCATTTTGTTTTTCTGCCAGAACGTGTAAGGGCTTTG
CCTCCTTCAGGGATCTGCCCGCCCC[A/
G]CCGGCTGCCCGGATGTGGCCTCCTCTGGCTCCAGAGCCGGTGCCAGCCGTTGGCGTTCATTCTCCTGTCTGGG
CAGATGGCAGCCTTGCTTCAGCCCTGC A/G extended_map 0.144 NA
NA NA 81.4% 86 28.2% 110 NA 0 NA
0 81.4% 86 NA 0 NA 0 NA 0
NA 0 28.2% 110 NA 0 NA 0 NA
0 NA 0
rs1811200 TSCAF 19 36.8316 14899095 forward MIT
ACGATTTCTCTTTGGAGTGTTCTTATCCATGTACCTCATCATTGTATTTGGAAACTTGCTTATCATCCTGGTTAT
CATTTTATGCTCCCACCTCCACACC[C/
T]CCATGTACTTCTTTCTCTCCAACCTGTCCTTTGTAGACATCTGTTTTGCCTCCACCAGGGTCCCAAAGATGCT
GGTGAATATCCAGGCACAGAGCAAAGT C/T 2,029 0.075 0.000
0.116 0.022 39.4% 330 5.8% 312 5.4% 56 16.3% 80
37.3% 134 51.6% 64 42.5% 40 32.6% 92
15.0% 40 5.8% 156 3.8% 78 7.7% 78 5.4% 56
16.3% 80
rs2242143 APPLERA_RESEQUENCING 19 39.1096 16162544
forward MIT
GGCTATCAGCTGGCAGAGGGAGCTGTTGGCATGTTGACGAGAAGGGAAGTTTACCTAATAGAAGTGACACTTCCC
CAGGGTTATTCAAAGGGGAGCCCAG[C/
G]GTTCAGGAGTCTGTAAGACCTGGCAGGGTGAGTTTGAGAGGAGGGGGCTCAGGAGAGATAGGATGTGGGAGAG
GTGGGGCTGGGCAGTGCCACTTCTCCC C/G 471 0.267 0.092
0.104 0.165 91.9% 186 24.7% 154 60.3% 58 72.5% 80
NA 0 90.6% 64 100.0% 32 90.0% 90
100.0% 40 NA 0 25.0% 76 24.4% 78 60.3% 58
72.5% 80
rs2168635 TSCAF 19 39.2217 16195818 forward MIT
ATCCCTGCGGTGTGGGTGGACTGTATGGGCTCAGCCAATCCAGTCATGCAGGTCACTCAGGTCCCGTTTCTGACG
GCCACTGGCAGTGCAGCATTGAGCA[C/
T]GCTTGCTCAGCCCCAGACGTGTGCACTTGGGTGTCTCCGTGACCTGGGCCAGGATTTCTGGAGGACTGAGGCT
GCAGACATGGAATTGCCAAGGAGAGTG C/T extended_map 0.122
0.078 0.025 0.026 30.1% 332 79.7% 306 48.2% 56
62.5% 80 33.3% 138 27.4% 62 15.0% 40 33.7% 92
31.0% 42 79.9% 154 77.6% 76 81.6% 76
48.2% 56 62.5% 80

rs873636 APPLERA_RESEQUENCING 19 39.4746 16375771
forward MIT
CGGTTCAGATCGTCTTCCTGGGACTTTAAGTCAGATTCCTGAGATTGGATTTGCGTTTTCAGTGATGAGATCTGA
AATGAGATGTTAAAAGATGTTAAAG[A/
G]GATTCACAGTGCAGGATGAAATGGGACTCCGAGAAAGAACTCTTAGCCCCCATCCCCGAAACAAGCTAAGCCA
GGGACGCAGACACCTAACCCAGGCCCG A/G 1,663 0.124 NA NA
NA NA 78.5% 130 28.9% 142 NA 0 NA 0
78.5% 130 NA 0 NA 0 NA 0 NA
0 28.9% 142 NA 0 NA 0 NA 0
NA 0
rs728117 TSCAF 19 39.5787 16473011 forward MIT
GGATCATGAATCGGAAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCCGGTCTTC
CAAAGAGAGCTGACAGAATCCTCTC[C/
T]GGGGGTGCACTCGAACTCGCGTCCCAGAACACAGACAAAACTTCCCAGAATCAAGCCCGTGAACTTCCTGTCA
CCGAAAATAATGCACAGAACGCGAAGG C/T extended_map 0.042 NA
NA NA 37.7% 138 67.5% 154 NA 0 NA
0 37.7% 138 NA 0 NA 0 NA 0
NA 0 67.5% 154 NA 0 NA 0 NA
0 NA 0
rs901792 AB_ASSAYS_ON_DEMAND 19 39.7707 16652443
forward MIT
CCACTACCACCACGGGTGGTTCGTCATGATTGCAACTGGGTGGGTCAAAGGTAAATAGGATGATGACAATGAAAA
ATCATCCCAGTGGAGAACTTTTGGT[C/
T]CAGTGGTACTACCAGGCACCCCAGCTAGGAAAGCCATTGCTCCAGGCACAGGGGCATAAAGACTGCAGTAGGT
GTTCAAACCTCCCTACAGGTATCAGCC C/T 200 0.284 NA NA
NA 7.5% 134 77.0% 152 NA 0 NA 0
7.5% 134 NA 0 NA 0 NA 0 NA
0 77.0% 152 NA 0 NA 0 NA 0
NA 0
rs773904 SEATTLE_SNPS 19 40.0955 16861131 forward MIT

GTGCTGGGGTTCAGCCTGTCTGGCGGCACCCAGACCCCCAGCGTCTACGACGAGAGCGGGAGCACCGGAGGTGGT
GATGGTGAGTGGTCCTGGCTTTGGG[A/
G]TGCAGAGATGGGGTTACATCAGAGATGGAGCTGGGGGCCCGGAGCTGGGGAGGGGGAGGCCGGGAAGTTGCGG
GCTTCAGCCCAGCCCACTCTGTATCCC A/G 1,120 0.202 0.047
0.126 0.017 25.3% 170 88.3% 154 67.2% 58 76.9% 78
NA 0 26.7% 60 27.3% 22 23.9% 88
32.5% 40 NA 0 87.2% 78 89.5% 76 67.2% 58
76.9% 78
CV22273565 APPLERA_RESEQUENCING 19 41.34 17200225
forward LGD
CTTGCATCCCACAGCTTGGTCTTGCACCCCTGAGACTTCTGTGAGGCTGGGGTGCCTGTGCCCAGTTTCTTTTTT
TTTTCTTTCTTTTGAGACAGAATCT[C/
T]GCTCTGTCACCCAGGCGGGAGTGCAGTGGTATGATCTCAGCTCACTGCAACCTCAGCGTCCCGGGTTCAAGCG
GTTCTCCTGCCTCAGCTGGGATCACAG C/T 2,049 0.071 0.022
0.031 0.000 79.1% 196 42.3% 156 60.3% 58 42.5% 80

NA 0 87.9% 66 80.0% 40 72.2% 90
64.3% 42 NA 0 43.6% 78 41.0% 78 60.3% 58
42.5% 80
rs2278235 AB_ASSAYS_ON_DEMAND 19 41.34 17363698
forward LGD
GTGCCTTGGCTTCGTCCATCTCAATCTTCAGTGTCGTTAGTTGGGTCTGAAGCCGGCTCTGAGGAGTGGAGGGGA
AGTGGGAGGGGGTGTAGGCAGAGGA[A/
G]AGGAGGAGTGATTCGGCCTGGCCCTTTTGGGGACAGTGAGAAGCCACCTGCGACCCTGTGTCCTGAGCTTTGT
GTGGAATGTCCTTTGGGGCCTTGTAGT A/G 1,428 0.172 0.089
0.052 0.209 71.6% 194 13.2% 152 44.8% 58 65.0% 80
NA 0 69.7% 66 71.1% 38 73.3% 90
83.3% 42 NA 0 18.4% 76 7.9% 76 44.8% 58
65.0% 80
CV11523632 AB_ASSAYS_ON_DEMAND 19 45.0302 18556984
forward LGD
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCCTACCTTGAGGGAATTATAAACATG
TCCTCCAGGTTTTTATTTGAAGCAC[A/
T]TCCCAATCAGAGTAACTCATCCTGTTGGGTTTGCATGAACCCTAATTTCCCCCTTATATACAGCAGTTCCGGC
CCCCCTCAACATATGGGTGGAAAGCTC A/T 295 0.255 0.001
0.434 0.002 30.3% 198 98.1% 156 100.0% 58 100.0% 80
NA 0 24.2% 66 25.0% 40 37.0% 92
28.6% 42 NA 0 96.2% 78 100.0% 78 100.0% 58
100.0% 80
rs386976 AB_ASSAYS_ON_DEMAND 19 46.6912 19972134
forward LGD
CAGAACTTAGGAAACCAGGACCCCACCTCCTAGAGACAACTCTGTATCCAGCTTCTTTGGTGAGAGATGCTCAAG
AGAGTAACATGCTCTTCCATGGTAT[C/
T]CTTACATTTCTGAGTTTTAGCCTTACAAAGGCTCAAAGTAAAAGCCTTCTCCGATAATGCAGATGTCCACTTA
GCCCTCATTTCTAATGAGGTGCACCCA C/T 1,466 0.213 0.059
0.090 0.088 4.1% 194 58.4% 154 29.3% 58 23.7% 80
NA 0 3.0% 66 0.0% 38 6.7% 90
2.4% 42 NA 0 59.0% 78 57.9% 76 29.3% 58
23.7% 80
rs2009363 TSCAF 19 46.7609 20038845 reverse MIT
GACCATTGGGACAGCTGCTTTTTTCATCAATAGGCTGATATCTTTGAGCCTGATCAGTCAAGACATAGGCCTGGC
TTTGGGCCAGGGTCAGTCTGGAAGT[C/
T]GGATTAGCATTTTTTTTTCCAGCTTACCTTTTCTCTTGTAGCAACCAGCCCCTATCTTGATACATTAACTTAT
AAGCAGTAAGCAAACACCATCCACTCC C/T extended_map 0.145 NA
NA NA 7.5% 134 54.1% 146 NA 0 NA
0 7.5% 134 NA 0 NA 0 NA 0
NA 0 54.1% 146 NA 0 NA 0 NA
0 NA 0
rs836899 TSCAF 19 46.8872 20159844 forward MIT
TCCACCTTTAGTTGGCTTGTTACAGGGGCTTGGGTAGTTGTACTTCTCATTTTATTTTTGGACAGACTGCATATC
CTTCAGGGCTTTGCTCCGTAGTTAA[A/
G]ACACTAGGGTATGTTTTTGTAGTCAGGTCTGCATATGGTGGGCCTTATATCTGGATATTGATGAGTATGGCTT

TTATTGAGTATCAGAGAGCATTCCCTC A/G 958 0.231 0.092
0.087 0.077 83.9% 304 18.0% 284 51.9% 54 48.6% 72
87.9% 132 87.0% 54 86.7% 30 75.0% 88
92.9% 42 20.7% 150 13.2% 76 17.2% 58 51.9% 54
48.6% 72
rs741676 TSCAF 19 47.46 21089681 reverse MIT
TGAAGTTCATTTTTTACCAGATTAAAATACACTGTTTTATCTTTTAGAGGTATTATGTAATTCCCAATATACCAC
CAAGAATATATCTGAATAGATACAC[A/
G]AAACAAAATAAGAAAGAAGTAAAAGCATATCAAGATAAGTATAAAAAAGACACAGAGACAGAAAAAGAGAAAA
TGAGGAACAAAGATACAAGAATCAAAT A/G 2,030 0.088 NA NA
NA 51.1% 88 90.7% 150 NA 0 NA 0
51.1% 88 NA 0 NA 0 NA 0 NA
0 90.7% 150 NA 0 NA 0 NA 0
NA 0
rs1850930 TSCAF 19 47.5696 21631302 reverse MIT
CAAATTTATTACATTTGCAGGGTTTTTTTTTCAATATAAATTCCCTGATATTAAACAAAGTTTGAGCAATTGCTT
CTGAGGTTTCCTCTAATACAAAATG[C/
T]GTACAATAAGATCTGTGACACAAGTAAACATATTACAACCCTACTACAATGTTCTTCTTCAAAATAATCTTCT
TTACTTTAGAGGCTTCCATTTTCTTAA C/T 778 0.237 0.001
0.357 0.001 89.9% 288 25.9% 278 22.2% 54 22.7% 66
92.3% 130 80.4% 56 93.3% 30 91.7% 72
100.0% 30 26.0% 146 25.8% 66 25.8% 66 22.2% 54
22.7% 66
rs404822 TSCAF 19 47.656 22007807 forward MIT
ATGGTAGACTAATCTGTCCATGAGACCCTTAATTCCTCGTGTGGACTGTATCTCCTTAATGAAGTCACAGCCTCA
GAGTTGTGTTGAATCTGAGAGTCAC[A/
C]AACCCACCTGTGAATGAGATCCAGGTATGATAGTCAATTTTCTAACTTTTGACTGCCTCCAAGTCTGAGATTC
AGAAGCTCAATCATTGGCTGTTTTCAT A/C extended_map 0.095
0.001 0.127 0.022 99.1% 328 74.3% 300 72.4% 58
88.7% 80 99.2% 130 100.0% 66 97.5% 40 98.9% 92
95.2% 42 73.0% 148 73.7% 76 77.6% 76
72.4% 58 88.7% 80
rs2035765 TSCAF 19 47.7503 22571713 forward MIT
ACCACACAGTACCCAGTTCCTGCCTACTTAGTGTCTGTTTTTCTACCTCTGCCTCTGGTATTGGGCCCTGGCAGC
TGCTGATTTGTGGCAAAACCCCAGA[G/
T]CTTGGAGTCAGAAGACAGAGTTCAAGTTCAATTATTGCCTTTTTTAAGCCGTGGTATCAATCCCTCTCAGTCA
TTAAGTCATTAAGACAACACCTTGTAC G/T 1,894 0.119 0.152
0.002 0.049 41.1% 292 88.7% 310 46.6% 58 67.5% 80
40.0% 120 32.1% 56 50.0% 40 44.7% 76
52.9% 34 92.2% 154 84.6% 78 85.9% 78 46.6% 58
67.5% 80
rs7256630 AB_ASSAYS_ON_DEMAND 19 47.7513 22581103
forward LGD
CTTGGCCCTGCCTCTGCTATGCACCTGCTCCCTGAGCCCAGGGCTGGGGCAGCAATGGCAGGCCCTTCTCCTTTA
CTTCCTAACCTGGTCACTGGCCATG[C/
G]TGGCAGCACACCCTTCCTGGAGGAAGGAGAGCCAGCCACCAGGTTGTCTGACAGAGGTCTGTGTGTCTACAGA

GATTTTTTTAAAACTTGCCCTTTTACG C/G extended_map 0.171
0.067 0.069 0.024 26.3% 198 84.6% 156 56.9% 58
69.2% 78 NA 0 13.6% 66 40.0% 40 29.3% 92
38.1% 42 NA 0 84.6% 78 84.6% 78
56.9% 58 69.2% 78
rs764366 TSCAF 19 48.8957 33042360 reverse MIT
CCTTTTAGAATGCCTGAGGTTGACAAGGAGTCTCTTCCATTAGAATGCTTGAGTTCTGCCAGGGGTCTCTTCCCA
TAGAATGCCTGAGGTTAGCCAGGAG[G/
T]CTCTCCCCTTAGAATGCCTGCGGTTGCCCAGGTTTCTCTGTTAGAATGCCTGAGGTTGGGCAGGAGTTAATCC
CATTAGAATGAATGAGGTCAGCCTGGT G/T 2,151 0.047 0.002
0.076 0.051 0.6% 334 14.2% 310 17.2% 58 0.0% 80
0.0% 136 0.0% 66 0.0% 40 2.2% 92
0.0% 42 10.9% 156 17.9% 78 17.1% 76 17.2% 58
0.0% 80
rs724637 TSCAF 19 49.084 33393607 reverse MIT
TCTCTCTGAGATTTCAAGTTTTCTCTTTGGATGTGTATCTTAACGTTTGCTGTGTGTGTGTGTGTGTATGTGTGT
GTGTGTTTAAAAATTCACCTGCTGG[A/
C]TAATTGTAACATAGAGTGTATTTGAACCTCACACTACTTTAAAGGTGATTGGATTTGGGGCATCTCTGCATGT
AACCTGGGGATTACAGTGGACTCACAA A/C 2,138 0.076 NA NA
NA 56.6% 136 92.2% 154 NA 0 NA 0
56.6% 136 NA 0 NA 0 NA 0 NA
0 92.2% 154 NA 0 NA 0 NA 0
NA 0
rs867815 TSCAF 19 49.4187 34225922 reverse MIT
TTTCCCGAAAGTTCTGTCCCATGACTTCAGCTGACTTCTCATTGGCCGTCCCTGCCTGGAAGGAAGCTGGGATTT
GAACCTCTGACACCCTCGAGAAAAC[C/
T]GTGACTCTGCACATTGGTATCCTAGCCACCTGCTCGCTGGTGCCTGTTTGCAATTGGACTGCCTGACCTTCCT
TGCCCTCTCAGCCCCGTTTGTTCTTAG C/T 190 0.286 0.046
0.200 0.048 12.2% 336 84.1% 308 62.1% 58 61.3% 80
14.5% 138 6.1% 66 7.5% 40 15.2% 92
23.8% 42 83.8% 154 84.2% 76 84.6% 78 62.1% 58
61.3% 80
rs727740 TSCAF 19 50.1697 34581438 reverse MIT
TTATCTCACCAACAGCTTGGCTGAGTGTGCCCAGATCTGTGCACTGTGGTAAGGCTAACCTTTACACCTCTAGAT
AGTTCCTGGATGCAAACCTTGAGAA[A/
G]TCAACTTGGAGAACGAGCTAAGTTTCCGTTGTCCAGAGCTCAGGTGCTGGGACAGGTGGCACCCAGGTGAGTG
TGGGTGGGAGGTGCACAGGGCTTGGGG A/G extended_map 0.108 NA
NA NA 57.4% 136 11.7% 154 NA 0 NA
0 57.4% 136 NA 0 NA 0 NA 0
NA 0 11.7% 154 NA 0 NA 0 NA
0 NA 0
CV8153039 AB_ASSAYS_ON_DEMAND 19 50.32 34701197
forward LGD
TGACCCTCTGGCCGACCCTTGGTCATGACGAGCTGGCTCCATGATTTCTAATCACCAGCCTTGCCATTAAGGTGA
AGGAAGCGCACGGGGAAATAGCAGA[G/
T]TTTATCTCCAACAGATCGATCTGCTGAGATCCATCTGGCCCCAGCCTCTTAATTCTCCATAATGTCAAAGCAA

TTTTTTGTTAAGTATACAGTCTGTCCT G/T 1,155 0.227 0.006
0.396 0.100 11.1% 198 74.7% 154 82.8% 58 37.5% 80
NA 0 6.1% 66 5.0% 40 17.4% 92
7.1% 42 NA 0 70.5% 78 78.9% 76 82.8% 58
37.5% 80
rs277079 TSCAF 19 51.047 35257896 forward MIT
AGAGCACTGAATGGCGAGCCACTGGCCCCTCGCCCGACCTTCGTGAGCCAAGGCTGAGTTTATTGTCAGAAAGAT
GACTAAGAAATCCCCGACACAGTGT[A/
G]TCATCAGCATTATGATTGGAGAAACAACACCTACAAAATCTATGATTCATTAAGTGTAACCAATATATAATTT
AAAACAGTGGGTTTTGTCAAATAATGT A/G 2,139 0.073 0.048
0.021 0.114 31.1% 318 2.0% 300 15.5% 58 28.7% 80
31.7% 120 37.9% 66 35.0% 40 23.9% 92
19.0% 42 0.7% 148 2.6% 76 3.9% 76 15.5% 58
28.7% 80
rs3745784 AB_ASSAYS_ON_DEMAND 19 53.5247 36460256
forward LGD
CTTTTGTCAAGTCTATGGGCTGGTCGTTGTTGACGTGGTAGAAATAGCGGTCGAGGTGGTCTGCCTTCTTGGACT
GCAGGGGCGGCGGGGTGGCCACAGC[A/
G]GCCTTCTCCGCCAGGCTGTTGCTCATCTTGAAAAGCATGCTCATGGGGTCCAGGGCAGGCAGGGAGGGCTTGG
CGGCCTTGCCCAGGTGAATGTTCATGA A/G 1,764 0.132 0.123
0.013 0.021 61.7% 196 11.0% 154 48.3% 58 23.7% 80
NA 0 62.1% 66 67.5% 40 58.9% 90
50.0% 42 NA 0 12.8% 78 9.2% 76 48.3% 58
23.7% 80
rs741441 AB_ASSAYS_ON_DEMAND 19 55.4625 37590914
reverse MIT
CCGGATGGACATCATGATGTCAGACTTACATGCATTGTTCTCCAAATCACTCCTAGATAGCAATAAACAGGCCAT
CAACGTCAGTGCCTTCTCCCCAACA[C/
T]ACCCCGTGCTCATCCATGCTGAAATGCCTTTACTTATGCCATTTTCCCTCTATTAGCATGCCCTCCCTTTTTT
TTTCTTCCCCCCAAGACAGGGTCTCAC C/T 1,586 0.149 0.169
0.002 0.172 8.5% 330 56.0% 298 10.3% 58 10.3% 78
9.4% 138 9.7% 62 7.9% 38 6.5% 92
21.1% 38 58.8% 148 51.4% 74 55.3% 76 10.3% 58
10.3% 78
rs7251953 AB_ASSAYS_ON_DEMAND 19 55.7033 37764549
forward LGD
ATTGAGGGTCCGCTGTGTTCCCGGTGCTGAGAGCGCGGCAGGGTCGGAGGAACGCTTGCCCCGCCGGGATGACAG
GGAGGGGCCGCCTGGGAAGCTTGGA[A/
T]GGATCACACGCCCGGAGAGGCGTTTCTGATAAGGGACCGGGACCTTAGGGACGGAGGGCGCAGTCTTTGAGTT
ATCGTTGTCCCTAATACCGAGGCCCGT A/T 559 0.233 0.034
0.220 0.155 33.7% 196 98.1% 156 87.5% 56 63.7% 80
NA 0 28.1% 64 50.0% 40 30.4% 92
40.5% 42 NA 0 98.7% 78 97.4% 78 87.5% 56
63.7% 80
rs2216595 TSCAF 19 55.9698 38225132 forward MIT
CCCCCTTGGCCACAGAGCAGGCCTGTCCAAGGGTCAACCAGAACCCTAGGCCACAAAACATACCACGGCCTTCCC

AGCACATGACAGGGAGTCCCAAAAT[C/
T]GGGGGCCTCTCTCACGTCACACAGATGACATGAGTTGCTCTCTGCTATGGGAGTGGACAATTCCCATGTCCAA
ACTTGTCTTGGGATAGGGACACTGCTT C/T 1,069 0.179 0.289
0.001 0.033 77.5% 334 18.4% 304 80.8% 52 37.5% 80
83.1% 136 81.8% 66 80.0% 40 65.2% 92
78.6% 42 17.9% 156 14.9% 74 23.0% 74 80.8% 52
37.5% 80
rs736289 AB_ASSAYS_ON_DEMAND 19 56.0993 38448902
forward MIT
CTTGGCGGGGTGGGGGAGATTCTTTCCCACCTCTCTGAGTGTCCCCATCTGGGTCCTTGCTCAGTGAGAGCCAGA
CTTTCTGCTATAACCAGGCCCTGAA[C/
T]GAGAGAGAACCAGAGTCATGTGCTGTGCACCAAATGCAGTGGGAAGACACGAGGGATGCCTCGGTGACCTTCT
TTTCAAACAGGAGTCTTTCGCTGGTAA C/T extended_map 0.063 NA
NA NA 31.1% 132 67.3% 156 NA 0 NA
0 31.1% 132 NA 0 NA 0 NA 0
NA 0 67.3% 156 NA 0 NA 0 NA
0 NA 0
rs1007989 TSCAF 19 57.0184 38854127 reverse MIT
TTGACTCTGAATGAGACAGGAGCAGAGGGAGGACACTCTCTGACCTGGACTTTGGCAGGACCCCTCTTGGCCTTG
GAGGAAGAGGCCAGGCAGAAACAGG[G/
T]TGGCCTGGGAAGAGACAACAGCAACAGGATCGGTGAGAAATCTCGGGCCAGGATGTGGAAATCTGTCCACCAT
TCTCATGTGAAAATCGGTGCTTTTCAA G/T 2,031 0.066 0.201
0.018 0.025 41.8% 292 78.4% 278 25.9% 54 92.9% 56
36.0% 136 31.8% 44 52.9% 34 52.6% 78
50.0% 26 76.0% 150 81.2% 64 81.2% 64 25.9% 54
92.9% 56
rs7248411 AB_ASSAYS_ON_DEMAND 19 58.5549 39566627
forward LGD
AGGGCCAGAGACCTGGGTCTACAGGGCAGACATCAAGGCTGAGCCAGTCAGACAGTGTTTGTCAACACTGGGCTC
TCACCAGGCTCCCTCAGGCCGAGGT[C/
G]AGCAGCCAGGGATCTGTCATGTGTGAGGAAAGTGTCTGTTCAGGTTAGGTGTGTATAATGCAGCCTTTCAGAG
CCGCGTCTGTCTGAGGTCCTAGGAGCT C/G 888 0.186 0.068
0.081 0.014 74.7% 198 14.1% 156 41.4% 58 25.0% 80
NA 0 81.8% 66 77.5% 40 68.5% 92
78.6% 42 NA 0 15.4% 78 12.8% 78 41.4% 58
25.0% 80
CV25972373 APPLERA_RESEQUENCING 19 58.6356 39604052
forward LGD
GCATGCCCTTTCCTCTGTAAGGCCAGTGATGTGGAGGGCTGATTCCATTTAATCTGCAGTGGAGCTGAGTCTGGA
CTTTGTTGCAGCTTTACCTAGATTC[A/
G]GTTGAACATTGACTTTAGTGCCTTTGAGACTTTGAATCGAACACTGACAAGATTTCCAGATATCTTGCTATGC
TTTACAGCCATGGTGCTAGGTTTTTGG A/G extended_map 0.185
0.066 0.083 0.012 25.3% 194 85.8% 148 58.9% 56
75.6% 78 NA 0 17.7% 62 22.5% 40 31.5% 92
21.4% 42 NA 0 84.2% 76 87.5% 72
58.9% 56 75.6% 78

rs7252173 AB_ASSAYS_ON_DEMAND 19 58.7087 39637904
forward LGD
TATTAGAATTGTGTCTGGTAATTCTTTAGGGACCCATTGTAGATGTATTTCTTCAAAGAGCATTTGTGGTTATTA
TATTTGGGTGCTTGGGGCACTGCCA[A/
G]TACAGGACCACTTTTAAATTAGGATTTTCAATACCTATGTATTCAGACCACAAACCTGCACGTGCCCTATGTT
ATTGTCATGAATTATATGGGAAGATAC A/G extended_map 0.182
0.064 0.081 0.012 25.3% 198 85.3% 156 58.6% 58
75.0% 80 NA 0 18.2% 66 22.5% 40 31.5% 92
21.4% 42 NA 0 83.3% 78 87.2% 78
58.6% 58 75.0% 80
rs1345656 TSCAF 19 59.6452 40072184 reverse MIT
TTGGAATCCAAAGTGAGAAATAGCAGGAAGAGCAAAAGGAGAGTCAGGAACTGTGCATCTCATTTCATGATCAGT
ATCTGATGTGTGTGTAGGTACAGGG[G/
T]CAGAGAGTATGAGTGGCCTAACAGGCCAGCCAAGTCAGTGACTGCTAATTTGGTAGTTTCTGGAATCTGCAAG
GAAAAGGTGACCAATGGCAAAGGATCT G/T 324 0.234 NA NA
NA 3.6% 138 61.0% 154 NA 0 NA 0
3.6% 138 NA 0 NA 0 NA 0 NA
0 61.0% 154 NA 0 NA 0 NA 0
NA 0
rs1350290 TSCAF 19 60.3622 40245812 reverse MIT
GGAAAACAGGATCTTAAGAGAACCCTCCTTACCAGGGTGTGCTGGGGTTGCTGTGAGAACTAAGTGAGTCCATAC
ACAGGACATATTTGGAATGGTGCCT[A/
G]GCACACTGCTATGTTTACCAGATTATTTTACTGTGTTGTGTACACTCATCATGTACTCCCTTATTCCCTTTTA
CTACTTCATGATCATGAACTCGCTATA A/G extended_map 0.075
0.009 0.184 0.059 39.0% 292 5.6% 266 0.0% 56
25.7% 74 41.1% 112 39.7% 58 44.7% 38 33.3% 84
47.6% 42 5.4% 112 5.1% 78 6.6% 76
0.0% 56 25.7% 74
rs926026 TSCAF 19 61.6111 40659264 forward MIT
TGAGGGAAATGAGGCATCTTTCCATGGGAGAGCCATGGGGATTTTTGTTTGTTTGGGTTGTCATTGATTTAGGGG
AGGAGAACCCAGGAATGTTGTGGTC[A/
G]GTTGGTCTGTTGGGTGTCAGAAAATGTAGTGGGAGGTCTTAATGGGATGATAGTCATCAAGGGCGGGGTGCTG
TGTTCATTTCTCAGGAGCATCTGAGGC A/G 1,218 0.166 0.012
0.152 0.020 81.1% 328 24.7% 308 36.2% 58 40.0% 80
82.8% 134 79.7% 64 81.6% 38 79.3% 92
76.2% 42 25.7% 152 26.9% 78 20.5% 78 36.2% 58
40.0% 80
rs8106480 APPLERA_RESEQUENCING 19 62.436 41086674
forward LGD
ATGCGGTGGCATCGCTGCTCATCGTGGGGGCGGTGTTCCTGTGCGCACGCCCACGCCGCAGCCCCGCCCAAGGTG
AGGGCGGAGATGGGCGGGGCCTGGA[A/
G]GGTGTATAGTGTCCCTAGGGAGGGGGTCCCAGGGAGGGGGCCCTTGGGGAAGCCCTGGAGGAGGTGCTGGGGA
AACCCTGGGGGAGGTGCCTGGGGGAAC A/G 2,103 0.048 0.000
0.087 0.009 22.4% 196 1.3% 154 0.0% 58 5.1% 78
NA 0 21.9% 64 30.0% 40 19.6% 92
52.4% 42 NA 0 1.3% 76 1.3% 78 0.0% 58

5.1% 78
rs733128 TSCAF 19 63.5982 43216452 forward MIT
GTGTGCGCCTTGAGCCATTTGCATCATGGTATGTGCATTCGGCCAGGAATGTCTTCAAGTTTCAGGAACAGAAAC
CCCCGCTCACTGCAGCTTGATTGAA[G/
T]GAGGGCTTATTTCTCGCTCACAACAGCACACCTGGAGGTGCTTGGCTGCCAGTGTTAGTTTGGTGGCTGGGCA
GTGTCAGGGCAGAGCCGCTTTGATTCT G/T extended_map 0.091
0.058 0.336 0.017 85.6% 320 46.5% 282 19.0% 58
31.2% 80 88.5% 130 87.5% 64 82.4% 34 81.5% 92
90.5% 42 44.4% 126 50.0% 78 46.2% 78
19.0% 58 31.2% 80
rs730078 APPLERA_RESEQUENCING 19 64.338 44113228
forward MIT
GGACTATCGTTGGAGATGCAGCCTCCCCGGGGCCGGAACCCCCGACGAGTCAGCAAAGGCCACAAGCGCCGCGCC
ATGGACGCAGCCATCTTGGACCGGG[A/
G]ACAAGGCGGCACTTCGTCCCGCCCACTCCGCGTTTAGACCAATTGCAAGGCAGCGAACCTGACCGTGACGAGC
CAATCAGATCCTGAGGAAAGTTGACCG A/G 2,070 0.079 NA NA
NA 94.9% 138 65.3% 150 NA 0 NA 0
94.9% 138 NA 0 NA 0 NA 0 NA
0 65.3% 150 NA 0 NA 0 NA 0
NA 0
rs562638 AB_ASSAYS_ON_DEMAND 19 65.1534 44541629
forward LGD
AAGAACCCAGCTCAGCTGCAGCAGGCTCGGAGCTCAGCCATTTCTCACCCCTGCCACACTCCCCACCACTCTAAC
ACTAAAGGCAGGAGTTCTGTTTGTG[A/
G]TATGACTCTGCCTTTATAGTGGGGGCTCCTGTGGGGCAGGCCAGTGTCTTACACAGCTTCGTCACACATCCCC
ACTGTCCCATCCTGAGCAGGCAGTTGG A/G 459 0.284 0.026
0.586 0.000 82.8% 198 9.6% 156 0.0% 58 10.0% 80
NA 0 78.8% 66 87.5% 40 83.7% 92
88.1% 42 NA 0 14.1% 78 5.1% 78 0.0% 58
10.0% 80
rs40353 APPLERA_RESEQUENCING 19 65.206 44571503 reverse MIT

TGAGAAGACTTTTGAGGATGCCCAGAAATCAGTAATTGAGGGACTGGGATGGGGAGAGGCAAGGGTGCGGCTGCA
GAGCTCCTCCTCACCTTGTTTTTGT[C/
T]CCACCAGATCTCACAGCATTACAGCAAACCCCGAGTCACACCGGTGGAGGTCATGCCTGTCTTCCCAGACTTT
AAGGTCAGGCCCAAGGTGGGAGGTAGA C/T extended_map 0.299
0.001 0.494 0.007 21.0% 162 95.7% 140 98.2% 56
91.0% 78 NA 0 27.6% 58 16.7% 24 17.5% 80
10.5% 38 NA 0 93.1% 72 98.5% 68
98.2% 56 91.0% 78
rs718798 TSCAF 19 65.7906 44903959 forward MIT
CCCTATTGTTACAAATTTTGTTTGCAAAACTGATACCAATTCTGGGGAGTCTAGGAAGAGAAAACAGAAATTGCA
AAGGTGCAGAGGCAGGAAATCATAT[A/
G]AGACTTTCAAGAATCTGAAAATAGAAACTTGGAATAAAAACCTGAGGAGGACAGGGAAATAGTAGAAGATGAG
GCTTCAGTTGATCATAAACCACCTCTT A/G extended_map 0.083
0.121 0.000 0.027 94.2% 328 63.6% 308 96.6% 58

81.6% 76 94.0% 134 92.2% 64 97.5% 40 94.4% 90
97.6% 42 62.2% 156 64.1% 78 66.2% 74
96.6% 58 81.6% 76
rs2011817 TSCAF 19 66.089 45097687 reverse MIT
CGGAGGCATCCTGAGCTGCGTCACCAAAGGTGCTGAGCTGGGGTTGGGCCTGGGGCTGATGCGACTAGGGATGGA
GGACAAGGACTCTGGGGCTGAGGGT[A/
G]GTGTAACTGGGGTGTCCATGGCGGGAGGTGCACAGGACTAAAGATTGAGGTCACAGACCTAGGGACCCCTGGG
CTGGGTTTCATAGGGCCAGGGTTACCT A/G 1,736 0.139 0.031
0.357 0.142 87.3% 332 38.6% 308 19.0% 58 82.1% 78
88.8% 134 92.4% 66 95.0% 40 78.3% 92
97.6% 42 35.3% 156 38.2% 76 46.1% 76 19.0% 58
82.1% 78
rs2014141 TSCAF 19 66.8703 46191829 forward MIT
GAACTCCTTGGAGGTTCAATTAGCTGCAAAATTCAAGATGTCCCTTAATGTATAACTTAGCCTCAGATTCCATAC
AACTGTCACCCAAATACCACCAAGA[A/
G]TGAGCACCCAGGAACCCAACTGGAACCTTTTCTGAACAGAAACCAACTTATCTTCGTCGATTTTGAGGTTGAT
AGTAATTTCAGTTATTGACTGTTTTGG A/G 1,528 0.162 0.156
0.005 0.018 97.0% 334 54.2% 308 94.8% 58 70.0% 80
97.1% 136 100.0% 66 95.0% 40 95.7% 92
97.6% 42 62.3% 154 46.2% 78 46.1% 76 94.8% 58
70.0% 80
rs873910 TSCAF 19 68.1939 46776635 forward MIT
GTTTATTTGGAGCTATTCTGTGCCAAGCTTTAGGTCAGGTAATTGTAAATATTTTAATGTTAATTTACAGAGAGG
ATGGCAAGCCAGGGACCATTGACAT[G/
T]TACCCCATTTTATTAAAGAGAAATTGCATCAGCATCACACAGGCTGTCAGTGCTCAACGTCACACCACCGTGT
GTCTGCAGCCCAGAATCTGGTCGTGGC G/T 849 0.244 0.013
0.460 0.001 90.3% 330 25.6% 312 13.8% 58 28.7% 80
92.6% 136 89.1% 64 84.2% 38 90.2% 92
100.0% 42 25.0% 156 28.2% 78 24.4% 78 13.8% 58
28.7% 80
rs731055 AB_ASSAYS_ON_DEMAND 19 68.2205 46788256
forward LGD
CTCACCCCTCCTCATATCTATGATGGGGACAGACACACATAACACACCTCTGCTCACTGCCCAGTCCCCAAGGTC
AATCGCAGTCTGCTTCTCCCCTAGA[C/
T]CCACTGCTCCCCATGTCTTCCCTCCCCAGCTGCAGCCTGGGTGGACTCCCTGCTTTTCTCAGTCCATGAAGGC
AGGTTCCAACCTTTGTGTTGTTGCCTG C/T extended_map 0.254
0.004 0.429 0.009 13.3% 196 81.8% 154 87.9% 58
72.5% 80 NA 0 10.6% 66 22.5% 40 11.1% 90
0.0% 42 NA 0 83.3% 78 80.3% 76
87.9% 58 72.5% 80
CV2829408 AB_ASSAYS_ON_DEMAND 19 68.5233 47115315
forward LGD
TCCTTAACACACAGACCCACAGAAAACACACAGAAGCACACAGGGTGACACCAGAAACAGCTTCACACACAGACT
TCGGCACAAGTTCACAGAAGTTGCA[C/
G]ACACATGCGCCATCCAACAGCCACACATAAACATGCAACCACACAAACATACACAATCAAACATACACAAACA
GTCATCAGTGCTCTTTAGGGCTGGACA C/G extended_map 0.36

0.001 0.563 0.038 13.4% 194 94.2% 156 96.6% 58
78.7% 80 NA 0 16.7% 66 13.2% 38 11.1% 90
9.5% 42 NA 0 96.2% 78 92.3% 78
96.6% 58 78.7% 80
rs1205817 TSCAF 19 68.6388 47295616 reverse MIT
GCCAGCCAGGTAAGGCCCCCACCCCAGATGGCCTCCCTGACGCCTCCACAGAACTTCCTCACCTTCCCCTCCCCC
TCACCCTGTGTATTTCCCCTTGTCT[C/
T]TCCAGGCCTGCTACCGACACCAAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCCCAG
CCCCGGGCCGGGCTTCCCACACAGGTG C/T 107 0.33 0.006
0.369 0.000 7.3% 316 81.8% 296 75.0% 52 81.2% 80
7.5% 120 9.1% 66 7.9% 38 5.4% 92
4.8% 42 86.8% 144 77.6% 76 76.3% 76 75.0% 52
81.2% 80
rs11351 TSCAF 19 70.4966 48962906 forward MIT
GGAGGTCGTCCATAGCAGCATAGTGAGAGTGTTTTTGATGAGGGTATGCAGAGTGGGGGTGACCATGTTCCCACC
TGGGGCCTCAGGTGGGCCAAGGCCT[A/
C]CCCACTTTAGCCAGCGTCCCCTCCAGCAGCCATCAGCAAGCCAACCCACTCCAAGCCAGGGCCCCCTTTGGTC
CTTGCACTTGAGGTGCTTTGTTCAGGG A/C extended_map 0.061 NA
NA NA 53.4% 116 18.5% 146 NA 0 NA
0 53.4% 116 NA 0 NA 0 NA 0
NA 0 18.5% 146 NA 0 NA 0 NA
0 NA 0
rs123187 TSCAF 19 72.3546 50522787 forward MIT
ACACAGCTGGAAGGGGGCAGAACTGGGAATCAAACAGGTACAAGGCTGCCAAGAATGGATTCAGGCTTTGGTGGA
AATAACTTCCAGGCTTCTCCCCGAC[A/
G]TCAGACTGTATTGTCAGCCTCTTTCTAGGTCATCAGGCTCTAGTGTACCCACTTCCCCAACCCATCTCCCATC
ACCCCAGCCATCTGACTTCAGGGTCCA A/G 1,899 0.179 0.021
0.131 0.003 10.3% 310 65.1% 292 48.2% 56 71.6% 74
7.0% 128 6.5% 62 15.8% 38 15.9% 82
17.5% 40 67.6% 148 66.7% 72 58.3% 72 48.2% 56
71.6% 74
rs877589 TSCAF 19 74.5884 51673783 forward MIT
TCCATGACAAAGCATCCCTGCAGCCCCAACCCTCCCCTCCATCTCTGCACTTCCAGTTTAGGGTTCTCCTTCCAT
CCTCTTCCGCTGTGTTTCACCTTTG[A/
G]GTTTTTATTTTGCCCTGCTGTGTATGTTCAGTGAGAACCCACAGAGTTTCCATAAACACTGAACCCAAAGAAA
GTCCAGGGGGCTCTGGGATCCCGCCTA A/G 2,054 0.087 0.025
0.256 0.003 27.8% 302 69.8% 258 86.2% 58 76.2% 80
22.1% 104 30.3% 66 27.5% 40 32.6% 92
33.3% 42 70.9% 110 79.7% 74 58.1% 74 86.2% 58
76.2% 80
rs7250850 AB_ASSAYS_ON_DEMAND 19 75.2171 52277357
forward LGD
CCAGATGCTGGCACTAAAGGATATCGTGCATATAAGGGCAGTTCTCAGCTCTGGCGCAAAATCCAGTGATGTAAA
ACTTGCACAGTTCTCGCTTCTTTGG[C/
G]AGTTCGATGTCATGGCTAAAATTACAGTGGTCTCCCTAGAAGAGAAGCAACAAAAACATAAGGTGGTGGCGTG
GGAAGCTCTTGCTTACTTCTGTCTGCA C/G extended_map 0.173

0.026 0.116 0.126 86.9% 198 31.2% 154 50.0% 58
73.1% 78 NA 0 89.4% 66 95.0% 40 81.5% 92
90.5% 42 NA 0 34.2% 76 28.2% 78
50.0% 58 73.1% 78
CV11524606 AB_ASSAYS_ON_DEMAND 19 75.2423 52302968
forward LGD
AAATCTATTTAAAATAAACTGCCTATCGCACCTCATTACATCACCAGTGAAACTGTACACAATGTCTTCAAAACT
GCATCTGCATTAACTCCTAAAAGCA[A/
G]AAGCGTTCTGCAGCAAAGACAAGGCCAAGAAACTGGGAGTCAAACCCATGAAGTTTGGCTCCCCCCAATCAAT
CTCATTTTTACTTTAACTTATCCCCAT A/G 1,544 0.181 0.044
0.094 0.119 12.6% 198 69.5% 154 44.8% 58 28.7% 80
NA 0 9.1% 66 5.0% 40 18.5% 92
9.5% 42 NA 0 67.9% 78 71.1% 76 44.8% 58
28.7% 80
rs307895 AB_ASSAYS_ON_DEMAND 19 75.3175 52379171
reverse MIT
TAAAATAATACAAACCACCATTTCAGACTAGCCCCAGCCCAATATTCTATTCCTTTCCTTAAAAATGTCAGGCGA
TTCCAGAGCTTGACTCTCACCTTTA[A/
C]GGTGAAACATTCTAACTAGTATGAAAAAACTAATTTACAAAAAGGAAAAAAAAATCTAAAAGTCACAGGGAAA
TAATGTGGACAACAAGAATAAACTTCC A/C extended_map 0.063 NA
NA NA 23.7% 118 0.0% 128 NA 0 NA
0 23.7% 118 NA 0 NA 0 NA 0
NA 0 0.0% 128 NA 0 NA 0 NA
0 NA 0
rs755327 AB_ASSAYS_ON_DEMAND 19 75.5056 52569727
forward LGD
TTGAGAATAGAATAAAAGGGTTCCTGGTGTAATCCATTCTGTTTGGTTGGAGATGGGCAAGCTGAGGCCCAGAGG
GGGCAGTCACCCAGCCGACACCTCC[G/
T]GTACCATTTCTGGGGTCCCGGTGTTGGGGACCACAGATGCCCCGATTGCTCTGAGCATGGGTCCCGAGTTCTC
TCTGGCTGCTAGAGCAGTGTTCAGGCT G/T 810 0.234 0.035
0.169 0.149 84.3% 198 17.8% 152 37.5% 56 62.2% 74
NA 0 87.9% 66 77.5% 40 84.8% 92
85.7% 42 NA 0 21.1% 76 14.5% 76 37.5% 56
62.2% 74
rs2974190 AB_ASSAYS_ON_DEMAND 19 75.7343 52752878
forward LGD
TCTATCTGTAGTCCCAGCTATTCAGAAGGCTGAGGCAGGAGGATCACTTCAGCCTGGGAGCTTATAGACTTTTAC
ACACAAGGCCTAAGAATCTACCTTA[C/
T]AGACCCTGGTCCAAAAAATGACTAAAAGTTTTGAATCAATTGGGAAAAAAAAAAAAGAGATGATGGTAACTTC
ATACTTTTAAGCTTGCACACTAAAAGA C/T 636 0.242 0.004
0.435 0.000 73.4% 192 5.8% 156 1.7% 58 6.2% 80
NA 0 77.4% 62 71.1% 38 71.7% 92
78.6% 42 NA 0 7.7% 78 3.8% 78 1.7% 58
6.2% 80
rs889144 TSCAF 19 76.0452 52955520 forward MIT
CAAGGAGGCCAGCCTCTGACCCAGTGACTCTGCCAGGGGTGACTGAAGGAAACTGCTGGAAATGGGGAGGAAGCT

CTTAATGCCCGGACACGGCGATTGG[A/
G]GCGTCGGGCACATTCCTGGATACCCAGGGGTGAGGGTGGTCACAGCCACTCAAGGACAAACTCTGTGGCCTGG
ACACTTAGTGTCCTCAGGAAGTCCTTG A/G 1,134 0.209 0.027
0.141 0.019 6.0% 282 61.9% 236 42.3% 52 45.5% 66
8.5% 94 4.5% 66 5.3% 38 4.8% 84
4.8% 42 57.6% 92 64.5% 76 64.7% 68 42.3% 52
45.5% 66
rs436943 TSCAF 19 77.1173 53298474 forward MIT
GTTAGATGAGCCTTGGAGGAATAGAGGGGTCCGGTGTGACTCTGCAGGACCTTTCCCACTCCCAAGCTCTGCAGC
TCTGCTCTTCATGCTGTCGCCTCCA[G/
T]GAACCTCATCCTCCACATCCAGCTCAGAACCCAGCTCCAGATCAAACTTTGAGCACAGAAAGGAAAACAAATC
AGGCCAGCCAGGCTCAACATTCATGCC G/T 1,374 0.186 0.011
0.384 0.040 74.3% 300 14.0% 258 5.2% 58 33.8% 80
78.7% 108 79.7% 64 75.0% 40 64.8% 88
69.0% 42 15.2% 112 15.3% 72 10.8% 74 5.2% 58
33.8% 80
rs274862 TSCAF 19 77.3068 53352257 forward MIT
GGAGATGTGGCAGGACGGGGCGGGGAGACCTGTGAGCAGTCCAGGGCAGGCTTCTGGAAGAGGAAAGAACAGTTC
TAGAGTGAGCGGGGGAAGGAGGGAC[C/
T]CCATTTTCCAAAAGTTGAGAGTAGAGGGGACTGAAACCTCTCTGTCTACCCTCCTTTCTGACCCTATGGTCTC
AGCCCTAACTCAGGGGTGGCCTCTTCT C/T extended_map 0.073 NA
NA NA 91.9% 136 60.8% 148 NA 0 NA
0 91.9% 136 NA 0 NA 0 NA 0
NA 0 60.8% 148 NA 0 NA 0 NA
0 NA 0
rs640794 APPLERA_RESEQUENCING 19 79.3143 53922191
forward MIT
CCTTCTCCATTTCCAGCACCTTCTCCTGCACAAAGCTAAGCAGCTCCGTGGTGTTGGCCATCCACAGCATGAGTG
GCCGCAGCTCCACAGACACAGCTTC[A/
G]GGAGTCAGGGGCACCTCGGGGACCCCCTCAGGGTGGCTTGAAAAAGAGGAAGGAATTTGTGATCCCTGCCCAA
CCCTCATCATAGTTTACAAACCCCAAG A/G 1,962 0.119 0.001
0.225 0.003 45.1% 288 2.7% 258 0.0% 54 0.0% 80
41.8% 98 43.8% 64 52.6% 38 46.6% 88
47.6% 42 0.9% 112 4.2% 72 4.1% 74 0.0% 54
0.0% 80
rs1058491 AB_ASSAYS_ON_DEMAND 19 80.0027 54117650
forward MIT
TGGATGAAGTGGCACAGTCAGCTTCCCTGGGGGCTGGTGTCATGTTGGGCTCCTGGGGCGGGGGCACGGCCTGGC
ATTTCACGCATTGCTGCCACCCCAG[A/
G]TCCACCTGTCTCCACTTTCACAGCCTCCAAGTCTGTGGCTCTTCCCTTCTGTCCTCCGAGGGGCTTGCCTTCT
CTCGTGTCCAGTGAGGTGCTCAGTGAT A/G 110 0.339 0.046
0.220 0.046 98.0% 196 28.7% 150 53.7% 54 53.7% 80
NA 0 98.5% 66 100.0% 40 96.7% 90
100.0% 42 NA 0 25.7% 74 31.6% 76 53.7% 54
53.7% 80
rs756628 AB_ASSAYS_ON_DEMAND 19 81.2977 54694498

forward MIT
AGCTTGGTGCTTGGCACAAAACTTGTACGAAAGGAGGGGACAGGTTGAATTGGCGAGTAGAGCTTGGTTGGGGTT
TGGTGGAGCCGAAGCAGAGAGCCTT[C/
T]AGCCTGGTGAAGGGGAGGGAGGGCCTCCTGGGGTCTGCTGGGGTGGCCCCTCCTGAGGACATGGCCCTACCTG
CCTCCACAGGGACGTCCAGATCGGTGA C/T 660 0.152 0.023
0.371 0.001 32.8% 332 87.3% 300 98.2% 56 90.0% 80
31.6% 136 30.3% 66 30.0% 40 37.8% 90
31.0% 42 85.3% 150 87.8% 74 90.8% 76 98.2% 56
90.0% 80
rs975484 AB_ASSAYS_ON_DEMAND 19 81.5404 54872078
forward MIT
CGCCCCTTTAGCGCGGGGCTCCCCGGGAAGCTTTGAGGCGGTGCTGGGTGTAAAGGGGAGGGCATTCCTGGTGGA
TTTTGCCCAATCACCAGTCGCGCTT[C/
G]TTGCAATAGACGGGCAGTTTTCCCCATCCCGGGTCGACTTGAGGGGGCGGGATTCTGGACGCCAGAGTTGGCA
AACCCCTGACCTATGATGGACGTATTC C/G extended_map 0.069
0.025 0.029 0.011 61.8% 296 24.2% 260 41.4% 58
13.8% 80 60.0% 100 68.2% 66 73.7% 38 54.3% 92
64.3% 42 25.0% 108 30.3% 76 17.1% 76
41.4% 58 13.8% 80
rs2695121 APPLERA_RESEQUENCING 19 82.9179 55572553
forward MIT
CTGAAGGCTGGCGTGGAACAGAAGGGGGCAGGTCTTGTTAGAAGGATGGGGAGGGTTTGTAGGCTGGCAGGAACC
AGGGTTGTGGCTGAGAGTAGGGTCT[C/
T]TGGAGAGATGGAAAAAAAAGGGAAAGCCCTGTCAGGACCTGTAACTGACCTAACCTAACCCTTCTTAGCCCCA
CAAGGCTCTCAATCCCCTGTATTCTAC C/T 1,346 0.146 0.004
0.224 0.065 1.2% 170 37.7% 154 44.8% 58 11.3% 80
NA 0 0.0% 60 0.0% 20 2.2% 90
2.6% 38 NA 0 37.2% 78 38.2% 76 44.8% 58
11.3% 80
rs268896 TSCAF 19 85.8624 56185007 reverse MIT
TTGATACTCAGGCTATGGTGACATTCACTGCTCAGGTCAAGGTTGAGTTTGGCTTATGGCTAATGGTTCAGGGTT
AAGGTCAAGGGTCAGGAGGGTTAAG[G/
T]TTGATTGAGGTCTGGATCCTAGCCTGAGTTGATATTTGGAGTCAAGAACTCAGTCAAGATTTAGGTTATTGGT
TGAGATACAAATTGGGGTTCATCAAGG G/T 1,187 0.153 0.024
0.093 0.002 7.3% 330 54.4% 298 35.7% 56 60.0% 80
4.5% 134 10.6% 66 12.5% 40 6.7% 90
11.9% 42 52.7% 148 53.8% 78 58.3% 72 35.7% 56
60.0% 80
rs273666 TSCAF 19 86.7695 56351571 forward MIT
TTCCAAGAGCTGTCTGAGAATTTGTGAGGATCTTGCTGGGTTGTGAACTTGCCCCGGTAGGCAGCTGAAGGGCTA
TAAAGAAAAAAGAATGTATGGAATG[C/
T]ATAACTGACTCTTTAAATCAAACTCTCTGTTTAAGGGAGCACAGTCTGTTCAATTTCAGTAAAAGAGAGTGAC
AGTGACTATAGTAAGTTTACAAGAAAA C/T 2,073 0.047 NA NA
NA 33.0% 100 6.9% 102 NA 0 NA 0
33.0% 100 NA 0 NA 0 NA 0 NA
0 6.9% 102 NA 0 NA 0 NA 0

NA 0
rs6509524 AB_ASSAYS_ON_DEMAND 19 87.3581 56459656
forward LGD
AACAGCGCCCCGCAAGTGACTCAGGTGAAGAGACCGAGATCAGGAGCTACTGGTTAGGGGAAAATTACCCCTTTC
TTCCAGTAACCTCAAAAAACTTCAA[C/
T]GAAAAAGTGTGTGTCAACACTGAAGACAGATTCCTCATTATTAGAGACCTTGATGAATGTGACTGTTCCCTCC
TAATCCATGATATTCATCAAATGGCCA C/T extended_map 0.134
0.236 0.003 0.000 84.2% 196 34.6% 156 89.7% 58
35.0% 80 NA 0 86.4% 66 86.8% 38 81.5% 92
82.5% 40 NA 0 26.9% 78 42.3% 78
89.7% 58 35.0% 80
rs1875424 APPLERA_RESEQUENCING 19 87.4441 56475453
forward MIT
CTCAAAACTCAGCAGAACTGTTTTACTCATGATTGCAGTTGATTATAGCAAAAGAGTACAGATGAAAATCAGTAC
AGGGAAGAGGTGCATAGGGCAGGGT[C/
T]CAGGAGAGAGCAGGCATGAGCTTTCAGCTGACCTCTCCCAGTGGTGTTGCACCAATAGAGCTTACTTCTTTCT
GCAACAATGTGTGGTGACATGCACAGA C/T 266 0.259 0.021
0.257 0.040 78.1% 196 7.8% 154 19.0% 58 25.0% 80
NA 0 74.2% 66 82.5% 40 78.9% 90
78.6% 42 NA 0 5.3% 76 10.3% 78 19.0% 58
25.0% 80
rs1626153 AB_ASSAYS_ON_DEMAND 19 87.4571 56477836
reverse MIT
CTGAGCTAAAACTCTCTACCCTTTCCTCCGGCCCTGTGCCCATCTGCATCTGGTCTTTAGGTGTTCTTTCCAGCT
CAGTCACTAGGTCCCTGGATACTCA[C/
G]TTGGTATCAGGAAGATGCTGGAAGTGTGAATTCCATATTGGTTCTTCCCCTCACAGTGAAGTCTCATGACTCT
TTCTGGCTCCCCAATGAGGCTGATGGT C/G extended_map 0.238
0.023 0.227 0.043 25.3% 198 92.8% 152 81.0% 58
75.0% 80 NA 0 27.3% 66 25.0% 40 23.9% 92
23.8% 42 NA 0 95.9% 74 89.7% 78
81.0% 58 75.0% 80
CV3057052 AB_ASSAYS_ON_DEMAND 19 88.6305 56693297
forward LGD
AGCACCCCAAGGTTCGAGGACTGTGAGGGGCTCAGGGTCAGGCTCCCCCAGGTCCAGCTCAGCCTGGCAGGGGGA
TTGCTGTCGACAGCACAGACAAGGT[A/
G]CAGGGACTGGCCCTCCAGGACTGAAAGGGCCGAGCCATTCCTCAAGGTTGTGGATGCTGTAGAGAAAGAGACA
GAAGGGCAGAGAGAGACAAAGTGATCG A/G 1,471 0.158 0.031
0.378 0.035 93.9% 196 46.7% 152 25.9% 58 68.8% 80
NA 0 95.5% 66 97.5% 40 91.1% 90
97.6% 42 NA 0 48.7% 78 44.6% 74 25.9% 58
68.8% 80
rs8112502 AB_ASSAYS_ON_DEMAND 19 91.1706 57315134
forward LGD
ATGGATGAATTTATTTTGTACACACACAAAAAGACAACATAAAACCTTATTGATAGTACAACAATGTTAAGGAGA
CTTGGGATGCAGAAGAAGACACGCT[A/
G]GCAAAATGGGCAAATATTAATCTGAAAAAACTAAGAAAGCAGGAAATTGTTGTCAAGGTTTAAATACACGTTC

ATGGAGACACAGTATATATGGAAGTAA A/G 657 0.248 0.050
0.175 0.007 23.2% 198 92.2% 154 72.4% 58 86.3% 80
NA 0 13.6% 66 17.5% 40 32.6% 92
23.8% 42 NA 0 92.3% 78 92.1% 76 72.4% 58
86.3% 80
rs899219 TSCAF 19 92.7177 57881084 reverse MIT
TTTTACCTTAACATCAAAATGCAGTTTAACCAGTTAGTCTATTTTTCAGTTTTCTTTCCTTATGTCATTTGTTAA
AATCTTGAGCTGGGAGCTATTAAGT[G/
T]CATGTTTCCCTCAAGGCCCTCTGGTGCGTTTGGACAAATGTTGAAAGATGGGTTGGATTGGCATGGAATGCTG
TTCCAGAAGCACTCCTGTATTTTTTTT G/T 1,636 0.105 0.033
0.285 0.001 4.6% 306 38.8% 258 60.7% 56 41.9% 74
5.3% 114 3.2% 62 2.5% 40 5.6% 90
11.9% 42 41.1% 112 43.2% 74 30.6% 72 60.7% 56
41.9% 74
rs1650930 AB_ASSAYS_ON_DEMAND 19 93.6063 58206139
forward MIT
TCCTCTGTCAGGTAATCAGGGTAAATGGCATCTCTTCCTAAGATTTACACCTTCTTTATTGTTAAAAGACCAATT
AATCTTTTCCCATGAGTTCCTGATA[C/
A]TGTCTGAATGTCCCATACGTCTTTAGGGCAGGGATATACTCTCCAAACTAGGGGCACGCTTCACATTTACCTG
AACTTCCCTGAAAGGCTTTCTTTTTTT C/A 342 0.222 0.004
0.260 0.051 84.6% 332 20.3% 310 25.9% 58 45.0% 80
90.3% 134 78.8% 66 92.5% 40 77.2% 92
71.4% 42 18.6% 156 15.4% 78 28.9% 76 25.9% 58
45.0% 80
rs3826756 AB_ASSAYS_ON_DEMAND 19 98.9508 59106535
forward LGD
GCTCCTGATTTTGATGTTCTGGAATCTGTAATCGAGATTCTGGTTCTATGTCTCTGGGTTCCAATGTTCTGGGAC
TCAGCAGACTGTGAAGATGTTCCAG[C/
G]ATTCCAGGTCCAGGAGCCTGCCTAGATCTGGGAGGGTGGAATTAGGGTTCTGGAGCTAGGTTCTGGAGTGAGG
AGGAATTGGAGCAAGATTGGGTTTTAA C/G 733 0.194 0.046
0.148 0.023 40.2% 194 98.1% 156 84.5% 58 89.7% 78
NA 0 39.4% 66 33.3% 36 43.5% 92
52.4% 42 NA 0 100.0% 78 96.2% 78 84.5% 58
89.7% 78
rs922515 AB_ASSAYS_ON_DEMAND 19 99.3588 59197760
forward MIT
AGATGATGTTTGTTCTCATGGAATTTGTAGCTTGCTAGGAATTTAGTGCTGGTGTTATTATTGAACTCACACCTG
CATTACTCCTGGGGGTGCACAGGAA[A/
G]CTGTTGATATAAAAGTGTTTTATGAAAGTCTTGAGCACAAAAATGTTCCACAGATTGTACAACCAATTGAGAG
TGAAGAAGGATTTGATGTTGTAATTAC A/G extended_map 0.105
0.106 0.009 0.049 51.1% 184 7.8% 154 39.7% 58
27.5% 80 NA 0 43.8% 64 56.7% 30 54.4% 90
67.5% 40 NA 0 3.9% 76 11.5% 78
39.7% 58 27.5% 80
rs3760698 AB_ASSAYS_ON_DEMAND 19 99.7982 59296006
forward LGD

TACCCGCTAGAGCTGGAGCCAGGGCTTGGTCGCACCCTCTCCCCTCCCAGGAAATGAGGCAACATCAGAAAACCA
GACCCAGATCCTCATTTACGGAAGA[C/
G]AGTATCGAGGTGGGGGCCTGTGGGTGACTGTGTCATAGCCCTATGGCACTGTGGAAAAATTAGCAGGGGGTTC
AGTCATAACCTGTGGTGTTCATTTATT C/G 1,110 0.17 0.138
0.013 0.018 93.8% 192 44.1% 152 86.2% 58 60.0% 80
NA 0 89.1% 64 97.4% 38 95.6% 90
95.2% 42 NA 0 44.9% 78 43.2% 74 86.2% 58
60.0% 80
rs369987 TSCAF 19 100.4431 59440189 reverse MIT

TTCACCTTCACGACGTCTGTCTAATGCATTTCAACAACTGTCTGTGTTTTCCTCACGTATCTTGGTTGTCATTCC
TGTGGGACAGCTCCTCCCACGCACC[C/
T]GGCCTTTCATAAAGGGTTTCTCCCACGGCTGTCCAGGCATCAGCCTGATGAAGGGGATTGTTGCCGCTGCTCC
TGCCCCACTCCCCCAAACTCAGTGTCA C/T 321 0.24 0.026
0.161 0.042 97.7% 304 43.0% 256 62.5% 56 67.5% 80
99.1% 108 98.5% 66 100.0% 40 94.4% 90
100.0% 42 42.5% 106 46.1% 76 40.5% 74 62.5% 56
67.5% 80
CV2829708 APPLERA_RESEQUENCING 19 104.136 60360617
forward LGD
TTAGTGGTGGGCTGTGTCCTGTCTCCTAAGGGACCCCTGGAGTCCCCTCTGAACAAGAGGTCGGGGGACCGCGCT
TCCCCTTCCTTGGGTTCCAGGAGTC[C/
T]GACTCGCAAACCCACTTCCTCTCTTCACCCAAGAGTCCCTACGCCTACCTCGCAGGCCAAGGGTCCAGCCTCT
CAGCTGCGACCCCTCTTGGGAACCCGG C/T 705 0.188 0.116
0.040 0.029 19.9% 196 80.5% 154 41.4% 58 62.5% 80
NA 0 7.6% 66 36.8% 38 21.7% 92
23.8% 42 NA 0 78.2% 78 82.9% 76 41.4% 58
62.5% 80
rs664684 AB_ASSAYS_ON_DEMAND 19 106.0582 60877062
forward LGD
AAACCTGCTTACTAAGGGTCCCTTTCTGACACCTGTGGCGAAGCCCCCTCCTCCCTGTCCCTTCCTGCCTTCAGT
GCTGGGGTTGGGTGGACGCTGACTG[A/
G]CTGTTGGGCGTGAGCCTTGTTCACAAACCTGCCTCTCCTTTCCCCACAGATCTTTGTGGAGTTCACCTCTGTG
TTTGACTGCCAGAAAGCCATGCAGGGC A/G 1,308 0.12 0.009
0.112 0.152 72.4% 196 23.1% 156 32.8% 58 68.8% 80
NA 0 69.7% 66 77.5% 40 72.2% 90
69.0% 42 NA 0 25.6% 78 20.5% 78 32.8% 58
68.8% 80
rs1436081 TSCAF 19 106.994 61184796 reverse MIT
AGCTCCTTAAACATGAGGTGATTTCCTTTTTCCAGTACTTGCTACATTTATTATCTTCCTTAGAAGTTCCTTGTG
CACACTTTCCCCAGACACGTTAAGA[A/
G]CAGGTTTCTTCCTTAACAGTTGATGGACCAGTCTATTGGTAAATAAATCACACTCTAAAAAATTTCAAATTGC
ATTCATGCATATTTTTAATTAAATTTT A/G 2,057 0.047 0.002
0.067 0.001 18.6% 334 0.3% 306 0.0% 58 0.0% 78
23.5% 136 12.1% 66 10.0% 40 19.6% 92
16.7% 42 0.0% 154 0.0% 78 1.4% 74 0.0% 58

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        0.0%    78
rs274176        TSCAF   19      107.5077        61353716        reverse MIT

AGACCATGTTGTATCATTGCTGGAAATGGAAAGCCAGTATCATGTGCCAGAGAGAGAGGTCATGGGAAATTCCAT
CACTCACGGCAGTGTTATTCCCGTC[C/
T]GTGTGGACACTGATAGGAGAAGGCTCTGAACCTGAGATCTGCCCTTATTAAAAAGAGAGAGTAACAGATACAA
GAGAGATGCTAAAGACATCCCAGAGCC     C/T             1,033   0.14    0.348
0.021   0.131   27.4%   328     80.3%   300     12.5%   56      38.8%   80
        26.2%   130     25.8%   66      27.5%   40      30.4%   92
28.6%   42      78.1%   146     79.5%   78      85.5%   76      12.5%   56
        38.8%   80
rs274153        TSCAF   19      107.5401        61364367        reverse MIT

CCCCAGTCAAACAGAGTGGCCTTAGCAAGGGAGGTGGGTGCCATTATCATCACTTGCGGATGTGGAACTCATGCC
CAGAGGGTATGACCAACCTGTAGGT[C/
T]CCCAGCCAGGAAGCTGAAGGGCTCAGATGCGAACCTGACTCAGTGTGGCACTCGGCAGGTCCCTTCCAGGAGC
CTCATCCCTGCCTCCGTAGGATGGAGG     C/T             extended_map    0.12    NA
        NA      NA      28.4%   134     77.9%   140     NA      0       NA
        0       28.4%   134     NA      0       NA      0       NA      0
        NA      0       77.9%   140     NA      0       NA      0       NA
        0       NA      0
rs2009609       TSCAF   19      110.5897        62955811        reverse MIT

ATTAGTCCTGGGCTGGCATCAGAGGAGAAGTGACAGGGTATAGAACGGTGAAGTCTGAAACTCTCAAGAATGGGG
AAGACAGAAACAGCATATGGCTCGT[C/
T]ATGTTGCCAGGTAAATACTTGTGAAATCAGAGAGCTTCTAGCATGACTTTCCTAAATCCCTAATGTTATGTCT
TCCTCCAGGGTGTTACTCCTCAGAGGT     C/T             643     0.173   NA      NA
        NA      53.1%   130     0.7%    152     NA      0       NA      0
        53.1%   130     NA      0       NA      0       NA      0       NA
        0       0.7%    152     NA      0       NA      0       NA      0
        NA      0
rs734380        AB_ASSAYS_ON_DEMAND     19      111.7221        63590775
        reverse MIT
CAACCCAAAGGTTTCGATTCTTGACCGACAGTATGAAGGCTCTAGGGGCTGCTATTACGGGGGGAAAGTTACACA
GAGCAAAAGAGGGCATCGTGTCCCT[A/
C]AGAAATGGAAACTTCCTATCTCAGAGTACAACCGCATAGTTCAAACCAAGTTCCCCAAGCCCCGCTATGGGGA
AAAGCTAGAAGCGGCGGAGCACCAGAA     A/C             1,310   0.099   0.080
0.008   0.003   10.6%   322     49.3%   290     17.2%   58      42.5%   80
        7.7%    130     6.1%    66      13.9%   36      16.7%   90
4.8%    42      45.7%   138     46.1%   76      59.2%   76      17.2%   58
        42.5%   80
rs2305119       APPLERA_RESEQUENCING    19      112.0229        63759435
        reverse MIT
CGATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGGTGAGTAGGAATAGGTGGTTGGGTCTGGGGAGAT
TGGCCTTCTGTCCCTCTGGCCTGTT[A/
G]ACCCCCCCTACCTGTACTGGCCACAGGAGCCCAACCCCGAGGACCCACTGAACAAGGAGGCCGCAGAGGTCCT
```

GCAGAACAACCGGCGGCTGTTTGAGCA A/G 1,638 0.074 0.015
0.046 0.001 37.7% 162 76.8% 142 63.5% 52 80.3% 76
NA 0 37.9% 58 5.6% 18 44.2% 86
21.4% 28 NA 0 78.6% 70 75.0% 72 63.5% 52
80.3% 76
rs742921 AB_ASSAYS_ON_DEMAND 20 4.4411 882521 forward LGD

TCCTCATTGTTTTCCTCTCTGCAAGACATACTATTGCTTTTCTTCTGGGTCAGGCTCTGGGCAAGCACAGCCAGT
GGGCTGAGAGCCAGGGGTAGAGAGA[C/
G]TTGGGGACCAACGGGCTCTCACGGAGGGATGAGCTTCTCAACCCTAGCTCAACCCTCAATTCTTTGACACAGG
CCCAGCGTCTCCAAACATCCAGTGTGG C/G 1,224 0.128 0.207
0.665 0.012 88.3% 196 42.1% 152 0.0% 58 55.0% 80
NA 0 90.9% 66 85.0% 40 87.8% 90
78.6% 42 NA 0 43.4% 76 40.8% 76 0.0% 58
55.0% 80
rs1418032 AB_ASSAYS_ON_DEMAND 20 7.5173 2072744 forward LGD

GAAAACTTTAGTAAATGTTGGCTATTAGTCCTAACAGTAAAGTATAGGTTACTTCCATAAGTTAAGCAAGACAAA
AACAAAAACTAAAAATTTGGTCAAG[C/
G]CATCAAATGATTTATCAAGCAGTCCAGCCCTCTTAACAGCATATAAAAGGATTCACACTCCTTGTGGTCCTCC
CAGAACTTCATATTCAATCTCTCTCAA C/G 268 0.256 0.263
0.007 0.381 5.6% 196 68.8% 154 10.3% 58 2.5% 80
NA 0 9.1% 66 5.0% 40 3.3% 90
14.3% 42 NA 0 73.1% 78 64.5% 76 10.3% 58
2.5% 80
rs214811 AB_ASSAYS_ON_DEMAND 20 8.1738 2290711 forward MIT

AGAGCTGAGTCTTAGACTGAGCCTGGCAAGAAAGGAGTAAGGTGGGCCCAGGGAACTTAGTAGCCGAGGGAGAGT
ATGGAGAGGAAGTGAGCCTGGAACA[A/
G]AATCTTGAAACCAAATGGCCTGGAAGAGGTGGGATTAAAGCCCTGGTGACTTAGAAGGCTGAGTCTCTTTGGC
CTAGGAGAGAGTGGGTGAGGCCAGCGG A/G 1,017 0.159 0.070
0.498 0.099 78.9% 308 23.3% 262 1.7% 58 0.0% 80
82.7% 110 72.7% 66 85.0% 40 76.1% 92
81.0% 42 28.7% 108 19.2% 78 19.7% 76 1.7% 58
0.0% 80
rs873711 AB_ASSAYS_ON_DEMAND 20 9.7073 2822468 forward LGD

AGGCTGGAGATCATCTATTTTCACTCAAGGGTCTTCTCACACCCCAGTAGACCATGCTTCTCCAGCAGTTCAGCT
GCCCTGCCACAGAAATTTCTTCACT[A/
G]TTTCCAGCAGGGGACTGCAATTGAGGCTACCGGTACCTCACTACATCCTTAGGTTTAACGATTTCCTGGTATT
CGATTCGATTCCAAGGTCCATTTACTG A/G 820 0.169 0.233
0.000 0.045 12.8% 196 67.5% 154 12.1% 58 42.3% 78
NA 0 9.1% 66 15.0% 40 14.4% 90
27.5% 40 NA 0 64.1% 78 71.1% 76 12.1% 58
42.3% 78
rs6076688 AB_ASSAYS_ON_DEMAND 20 13.2534 4530943 forward LGD

TTTAAGAATCCAGACTGGGTTATCCCACTTTATGGGCCCCTCACAGTTCCAAGGATCCACACCACTGGTCAGGCA
AGTTTCCTTTTAGACCTTAAAGTCC[A/
G]TTTTCACTCCCTTTTCTTGGTTATTCTAACTAATCACCTGCAACTCTAAGGGAGGCTACTCTTATGACACTAG
AGAACTCTAAACTGGTCTTTGGAGGAA	A/G	extended_map	0.088
0.022	0.249	0.007	30.6%	196	73.1%	156	87.9%	58
82.1%	78	NA	0	27.3%	66	22.5%	40	36.7%	90
	21.4%	42	NA	0	66.7%	78	79.5%	78
87.9%	58	82.1%	78
rs911165	AB_ASSAYS_ON_DEMAND	20	13.2859	4539779	forward
MIT_and_LGD
CATCCAAGCCCCAAAAATGAGACCTTTAATGTGACCACTTGGAGATCTGATGTGTATTCCTGCAATTATAGGGAA
CAGTAATGTATTTCACAGGTCTGAG[A/
G]ACTCTAAAGGTAGCCTAAGCTAGAAGAGGGAGGGAAAAGAGAGAATTGTGCTATTTTTGAAACTAATTGCTCT
CCCTTTCAAAAATATGTCAAATGTACA	A/G	1,397	0.119	0.022
0.306	0.008	75.8%	198	26.9%	156	12.1%	58	17.5%	80
	NA	0	78.8%	66	82.5%	40	70.7%	92
90.5%	42	NA	0	33.3%	78	20.5%	78	12.1%	58
	17.5%	80
rs6038010	AB_ASSAYS_ON_DEMAND	20	14.4599	4858786	forward	LGD

ACAAAATGTTAACTTTACTTAAAGGGCAAGGGACATCTTTAATGGATGTGACATTCTGTACAAAAGGACAGGCAC
TGACTAGCAGGACCCTGGCAGAAAC[C/
T]ATGTCCCTCCCCCAACCACCCACCCGTCAGGAGTGCAGAGCTCAGTGTGGCCTGGGGAGAAGAGTCACATCAT
CAATGGCAACAGACCTTTCCCACGACT	C/T	700	0.142	0.100
0.513	0.045	7.6%	198	53.2%	154	87.9%	58	77.5%	80
	NA	0	0.0%	66	5.0%	40	14.1%	92
0.0%	42	NA	0	46.1%	76	60.3%	78	87.9%	58
	77.5%	80
rs17352	AB_ASSAYS_ON_DEMAND	20	15.3265	5092976	forward	LGD
GACTTGATCCATAAACCACTGTTCTGTGGTATGTACACGTGCTGAATTTGTATTCCCTTCTTGCAAATATAATTC
TAAATTGGATGACACTTATAAATCA[G/
T]TCGCAGATTTCAACAGTATCTCAATTTTCAGAAATTACTTGGGATCCAATTCTGTCTACTTTTAATTTTAGCA
ATTAACCTAATAAGCAGTATTATAATT	G/T	957	0.163	0.029
0.406	0.034	33.0%	194	89.5%	152	100.0%	56	100.0%	80
	NA	0	34.8%	66	23.7%	38	35.6%	90
31.0%	42	NA	0	86.5%	74	92.3%	78	100.0%	56
	100.0%	80
rs1028553	AB_ASSAYS_ON_DEMAND	20	16.389	5332971	forward	LGD

GGAAAATGCAGTTTAATAAAGGCAGCTGGGTTAGTTCGAAGAGCACGGGGCAGAGTCAAAGGACTTAGGCTCAAC
CAAGAATTAGCTCATGATTTCTCCG[C/
G]ATCTGTGTTTCTTTGTCATCAAAAAGAAACACTGAGTTTGGTATTCCTTGTGGTTCTCCAATTTTATTATTTT
AATTGTGTATAGGAAGTGGATTGCTGG	C/G	1,290	0.149	0.006
0.246	0.185	98.0%	196	59.1%	154	50.0%	58	98.8%	80
	NA	0	97.0%	66	100.0%	40	97.8%	90

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100.0%  42      NA      0       60.3%   78      57.9%   76      50.0%   58
        98.8%   80
rs236121        AB_ASSAYS_ON_DEMAND     20      20.0757 5967594 forward LGD

TTAAATCTTCCATTTCAGAGTTTTCATCTCTTCAGCTTCGTTCAGTCTTTGCCCTTAATGTGGTTTTAAACCTTT
TAAGATTACATTTTAACTGGGAAGC[C/
T]GACAGTTGAATAAGAAAATTCTTAAACTGTGACATAGCTTGTCTGAGTTACCAGAGCACTTAGCTGTATTTTA
AAAAACTAAATGCTTATATTTAGTAGA      C/T             538     0.247   0.011
0.244   0.034   10.7%   196     77.0%   148     66.1%   56      56.4%   78
        NA      0       12.1%   66      12.5%   40      8.9%    90
9.5%    42      NA      0       78.4%   74      75.7%   74      66.1%   56
        56.4%   78
rs1997838       AB_ASSAYS_ON_DEMAND     20      21.2446 6636169 reverse LGD

CTTGCTGGCCTTCCTGCTCTTTAATGCCACATACCTGCCCCATTACCTGCAAAGGTGAGCTCAGATAGAAGTTGT
GATCACACCTCCCTGGCCACCTGCC[C/
T]ATGCTGAGGGGGGTGGGATTGGGCTGCCATGGTTACCACCTTATTTACACAATTAACATTTAGACAATAAACC
TAAACCTTCCTAATATTACACACCCTG      C/T             1,441   0.162   0.077
0.051   0.101   24.2%   198     81.1%   148     50.0%   58      44.9%   78
        NA      0       16.7%   66      27.5%   40      28.3%   92
19.0%   42      NA      0       83.8%   74      78.4%   74      50.0%   58
        44.9%   78
rs6140136       AB_ASSAYS_ON_DEMAND     20      22.0597 6953505 forward LGD

AATATGTTGACTCTATGAAAAACTGGAAGTTTAGAAAGTTCAAGATTATTATTTATTTATTAGTAACAGAAGAAA
ATAATCACCATATAAAAGCTCTAAG[A/
G]AAAGAAAAAAGAAGTGAGCACATGCAAAGCGTGGATGAATAGAATAGTTGCTGGAAAATGTAACAATCCTGAA
ATTTGATGATGTTGGGCAATCTGGTTC      A/G             extended_map    0.283
0.002   0.404   0.011   2.0%    196     63.5%   156     69.0%   58
75.6%   78      NA      0       0.0%    66      0.0%    40      4.4%    90
        2.4%    42      NA      0       56.4%   78      70.5%   78
69.0%   58      75.6%   78
rs6107904       AB_ASSAYS_ON_DEMAND     20      22.1042 6965514 forward LGD

ACACAGGGTAAATGACTTCCATAAGGTTGCACACTAGATTGGATCCATGAAACCTGCTTGCCGGTCTGTTCTTAA
ACATTCCATTAGCTGCCTCTTAAAC[A/
G]CTATACTGAGGTCTCCCTCTAAAATCCACATATATGAGGCTATAATGGTTAAAGACTTTCAACAGGCTTTCAA
ATATTTTCATTCTGAACATTATTTTTT      A/G             207     0.286   0.055
0.648   0.009   4.6%    196     70.8%   154     93.1%   58      60.0%   80
        NA      0       3.0%    66      0.0%    40      7.8%    90
7.1%    42      NA      0       71.1%   76      70.5%   78      93.1%   58
        60.0%   80
rs995636        AB_ASSAYS_ON_DEMAND     20      22.2463 7003824 forward LGD

GCAAGCATTTTTTTCCTCCCTCATTAACCTATCAATATAGATGTCAAGTTCTATTTCATGAGCAGAACCCTTGCA
TGCACAGCCACTGAAGAGTCAGCTC[A/
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G]CTTTAAGTTCTCAAAGAATTTTTCATTGAATTTAATATATTTGATAGGCTCCACTTTACACAATGAGAACAGT
AGCCTTTTCTGTTTTCCATTTTTTTTT A/G extended_map 0.273
0.031 0.573 0.015 91.3% 196 22.7% 154 6.9% 58
11.3% 80 NA 0 93.9% 66 100.0% 40 85.6% 90
95.2% 42 NA 0 24.4% 78 21.1% 76
6.9% 58 11.3% 80
rs3761884 APPLERA_RESEQUENCING 20 22.3995 7045150 forward MIT

GTATGTTTTCTTGTTGTTTCTCTGGCATATAAGTCAAGGTTCATATAGGCTACAAGAAAATGTTTAATATATTGA
ATTAGGTTGGAGTAATTGAAGAAAC[G/
T]GATTGTAGAAATTATCCCTAGATTAACAAACTCATACTACCCTGGAACCAGCATCAGTGCTACGGTGGAACCA
AGAATTCACTTCTGCCTCCATTGTCAC G/T extended_map 0.138
0.092 0.028 0.023 35.2% 182 87.3% 150 55.2% 58
73.1% 78 NA 0 22.6% 62 36.7% 30 43.3% 90
41.7% 36 NA 0 89.2% 74 85.5% 76
55.2% 58 73.1% 78
rs2294306 AB_ASSAYS_ON_DEMAND 20 25.321 7864025 forward LGD

AAGAGAATCCTCTTTCTCATTTGTGTTCAAGTCACACTCTTCCAGAATGCTCCCTGCACAACTTGCTCCCCCAAC
CCCTCCCCCAAACACAACTTCTGCT[A/
G]GCAAGGAGCTCTCACCTTTCCATCTTCCTATTGCATCGGTTGTTATACTCTTGATTTTTGACATTTTAGGTAT
GGAAACCTTTGTTCAAATCAAAATAGT A/G 774 0.277 0.036
0.253 0.156 75.8% 198 3.9% 152 17.2% 58 41.2% 80
NA 0 78.8% 66 90.0% 40 67.4% 92
95.2% 42 NA 0 3.9% 76 3.9% 76 17.2% 58
41.2% 80
rs760847 AB_ASSAYS_ON_DEMAND 20 28.17 9293258 forward MIT

ATCTCCCCCATGAAATAGTGTCTCAGTCAGTTTCATGGAAAATGGTAATCCTTGAGATCCATGCTTCAAGGATGC
AAGAAGGACGTCTTATTCATGGAAA[A/
G]ATGTGAGATGCATCCATTAGGAAACTAGACAGGGAAATCTGGGGTCCCACTAGATTTACAAGGAGCTTGTGGA
AACAACACAAGACAGGAAGAAAGTATG A/G 634 0.205 0.038
0.137 0.036 80.6% 186 17.5% 154 37.9% 58 37.5% 80
NA 0 76.6% 64 81.2% 32 83.3% 90
85.0% 40 NA 0 20.5% 78 14.5% 76 37.9% 58
37.5% 80
rs1883488 AB_ASSAYS_ON_DEMAND 20 28.4858 9400752 forward LGD

CAAAATTCATAGTCCAGGCTCCTTCCTCCTTCTCCTTTGTCTTTCATAAAAAAAAAAAAAGGAAGCACATTAGAAG
CTACAACATACAGTAATAGAGGTAA[C/
T]AACCCATAAAAAGCCTGGAAAGGGATGCTGTGAGGCTGGGTAAGAGGATCAGAAAGGGGCACTGGAGACAAGT
GGTAGGTTTAGGAGCAGCAGTCCGTGG C/T 242 0.272 0.010
0.324 0.017 77.6% 196 5.8% 154 12.1% 58 15.0% 80
NA 0 77.3% 66 85.0% 40 74.4% 90
71.4% 42 NA 0 5.1% 78 6.6% 76 12.1% 58
15.0% 80

rs2232267 AB_ASSAYS_ON_DEMAND 20 28.754 9492057 forward LGD

CAGTTTGTCTACGACTCCTCGGAGAAAACCCACTTCAAAGACGCAGTCAGTGGTGAGTGGAGGCTGGCATGGCTG
GGGAGGGAGCCTGGGAACTCGCAGA[A/
G]CAGGCTTGGAGAGAGAATTCCTCAAGGTTTTGGAAACCGTCCCACGCTTTGAGGTCCCAGGCCAAGTCTTCCC
TCGGCTTGCTCTTTAGGGCGGAAGAGG A/G extended_map 0.16
0.013 0.331 0.104 88.1% 194 35.5% 152 22.4% 58
5.0% 80 NA 0 90.9% 66 89.5% 38 85.6% 90
92.9% 42 NA 0 30.3% 76 40.8% 76
22.4% 58 5.0% 80
rs362988 AB_ASSAYS_ON_DEMAND 20 31.0406 10276370
forward LGD
ACTTGAAAAAGGAGTAAGTAGGCATAAAGGGAACACTTTGTCCTGTTGTGTTGTACATACTCCATGTTAAAAATA
TCTGATTGCATATTTTGCCTGATCA[A/
G]TATGAAAACTACGCAAACTTTAGTGTTGGTTGGCAAAATACTTGTGCTTTGCTTACTTTTGCAAGTAATGGCA
TGCTTATCGTTGTTAAGAAGGCTTTCA A/G extended_map 0.158
0.037 0.076 0.017 6.1% 198 53.3% 152 30.4% 56
68.8% 80 NA 0 3.0% 66 7.5% 40 7.6% 92
2.4% 42 NA 0 56.6% 76 50.0% 76
30.4% 56 68.8% 80
rs4632418 AB_ASSAYS_ON_DEMAND 20 32.4371 10927239
forward LGD
ATCGAGTGTATAGTCAATAGCAAATGCTTTCAAAGTGAAAATGCTCAGTGGCAAGTGACTTCAAAAGCTGCAAGG
TGGTGTCCAGACCAAAAAAAGCATC[A/
C]CCTTTAGGGCCCTGGCTGCTGAAAATTTTTAGGATCAGTAATGAAGTGTTGTCTTATGTTAGGTTCCCCAGAT
GCAGAGTTTGAGACAAGAATTTAGTGC A/C extended_map 0.247
0.027 0.203 0.036 15.5% 194 83.8% 154 67.2% 58
64.1% 78 NA 0 17.2% 64 17.5% 40 13.3% 90
11.9% 42 NA 0 87.2% 78 80.3% 76
67.2% 58 64.1% 78
rs6078084 AB_ASSAYS_ON_DEMAND 20 33.7406 11146237
forward LGD
CTCCTTTTAGGAATAGAATTTCTCCTTGCTCATTTTCTTTCCCCCGTCCTTCTTCCCATGCCCATCCCATACCAA
AAAAACCACCCACATAGATAAAAAC[A/
G]TAAGTCTACACAGTTCTTATGCTTAATTTAGCTGATTCCATGTGTTTTGATGCACACGGGACCAAGTGCCACT
TATGACTTCTTTCCAAACTAAATGACT A/G 265 0.267 0.097
0.088 0.068 2.0% 198 60.9% 156 24.1% 58 30.0% 80
NA 0 0.0% 66 0.0% 40 4.3% 92
2.4% 42 NA 0 64.1% 78 57.7% 78 24.1% 58
30.0% 80
rs2876410 AB_ASSAYS_ON_DEMAND 20 40.2374 15549753
forward LGD
TTAGACCTTGGTCCAGCATGAGGGGATAATTAATAAGTACACTTTTTCTGCGGGTGCTTTTGGCAATACTACTCT
TACCACTAATCTCTGAGCATAATTG[A/
G]CTACAAAAAAAATCATGTGCTATTTCATAAAATTCCAAGCATGTGCAGACACCAGGTAGTATCCACCAACTTT
GGGCCAATACTGCATACTTGGCATGTC A/G 498 0.345 0.033

0.283 0.077 7.2% 194 84.0% 156 65.5% 58 53.8% 78
NA 0 1.5% 66 0.0% 38 14.4% 90
9.5% 42 NA 0 80.8% 78 87.2% 78 65.5% 58
53.8% 78
rs1151927 AB_ASSAYS_ON_DEMAND 20 40.2591 15553837
forward LGD
ACCAAGTTACACTGCCAGGAAAGTGGCCACTGTTCATATTAATCTGGAAAGTCTGAGTTGCCATGATAAGTTGGG
TGCATGATCACAGGTAAATAGACAC[A/
G]ATATTTGAGTCACAGTGTTTTCAGACCCTGATGAGTTCTGATGATTCAGGACCACTTGGCCTTATTTACATTT
GTGATATTCTGCATGGGTGGGACGTGT A/G extended_map 0.193
0.081 0.082 0.108 31.4% 194 92.3% 156 65.5% 58
60.0% 80 NA 0 33.3% 66 18.4% 38 35.6% 90
35.7% 42 NA 0 96.2% 78 88.5% 78
65.5% 58 60.0% 80
rs1002911 TSCAF 20 43.085 16463286 reverse MIT
GATAGCACAATGATGAAAGATAACTTGTAACCCTTTCAAAATGTTTTGACTAACAAGAAATATAGTAAAATGAAA
TTGGGATTCTTTTCTGGCTTAAGAT[G/
T]TTCTGAGTTTAAATTTCATGGGGAGGCATGCTTTCAACCAGCTTATATCTGTTTTATAATAGAATCAATCCAC
TGAACTTTTTGTCTCCAGAACATTATG G/T 1,509 0.16 NA NA
NA 64.6% 130 9.1% 154 NA 0 NA 0
64.6% 130 NA 0 NA 0 NA 0 NA
0 9.1% 154 NA 0 NA 0 NA 0
NA 0
rs2423998 APPLERA_RESEQUENCING 20 43.6219 16715802
forward MIT
GACAAAATTCTCCAATCACGACTCACCTCCAGAAGCTTAAAACATAATTGTTTCATATACTGTTAAACACTTAAG
AGATTTGTAATTTTCCAGACTTTCA[A/
G]TGTCTTTACTTGAATGTCTGCCTTGCTTAGTTACTGTAAGGTTTTGATTTATTTCTCCAGTGTCATTGTTTTT
CAGCTTTATTGTTTGATATAGTAAGAT A/G 1,793 0.119 0.002
0.209 0.001 18.2% 192 65.7% 140 71.4% 56 69.2% 78
NA 0 17.7% 62 18.4% 38 18.5% 92
17.5% 40 NA 0 61.1% 72 70.6% 68 71.4% 56
69.2% 78
rs6034866 AB_ASSAYS_ON_DEMAND 20 44.8561 17598728
forward LGD
TGGCTGGCCAAGTTATCCACAGGTAGGGCCCGTGACCCATGTGGACCCTTGACCTCACGACCACCACTGAGGCCT
CTAGTTGTGAGTCAAGGCAAGCTGG[A/
G]GACCCAGAGGCCACCTTCTATCTGGATGTGTGACCACAATCAAGTCAGGTGACATCTCTGGTCACAGCTTCAT
TTACCACATGGTAGCCAGACAGTCTCT A/G 15 0.453 0.008
0.527 0.008 5.1% 198 91.7% 156 85.7% 56 97.5% 80
NA 0 4.5% 66 2.5% 40 6.5% 92
2.4% 42 NA 0 91.0% 78 92.3% 78 85.7% 56
97.5% 80
rs4813333 APPLERA_RESEQUENCING 20 46.3612 18483399
forward LGD
TGCGCTTAGGCAACGGTGCGGCAGGCGCCGGGGTTTTCTGAAACAGAAACGTTTAGGGGTGGGGAAACGTGTTCC

GAGGAACTCTCGTTTTGAAGTGCGA[C/
G]ATACACCTGTCTTGCCCTGTTCCAAGATGGTGGCAGAGCTTCTCTGAGTCTCTCGCTTCCTCCAGTCCGTCGG
AGAAGCGCTCTTTGATTGGCCAGTGGA C/G 2,050 0.056 0.096
0.000 0.006 61.3% 194 91.3% 150 60.7% 56 85.9% 78
NA 0 66.7% 66 75.0% 36 52.2% 92
66.7% 42 NA 0 93.2% 74 89.5% 76 60.7% 56
85.9% 78
rs199537 AB_ASSAYS_ON_DEMAND 20 48.7635 19921868
forward LGD
CCTTTTATTAATTCCTGCACAGGGCTAGGCCTGAATATGGGCTGGGGATGAGGCCAGGCTAGTAAGGGAGAGAAG
TCTGACCAGAGTGGAATGGGGTAGG[G/
T]GCCCTGGAGGTGTGGGGACAGTAGGGAAGGAATGTGATGGGCCACAGATTACTTGCAGCTGAAAGAGATAAGG
GATGAGGATTTGAACCCAGTTTGACAG G/T 1,617 0.173 0.009
0.172 0.074 82.3% 198 24.7% 154 34.5% 58 56.4% 78
NA 0 86.4% 66 85.0% 40 78.3% 92
90.5% 42 NA 0 24.4% 78 25.0% 76 34.5% 58
56.4% 78
rs1024207 AB_ASSAYS_ON_DEMAND 20 51.38 21586481
forward MIT
TTCATGAACTTGGCTTCTTTTCTACCAGGTGTAGGGAACACAACCATTCAGCATAAACAACACTTACATTGGGCT
TAGAAAGTCTAATGAAATGAAAGTG[A/
G]CAATCCTGGCATATTTGGGATTAGTCTTTGAATCCGTATGGTTCATTCTGCAAGGCAGGCTGACCTCCCACAC
TAGCAAAGGGACAGACCCTTACAGCCA A/G 1,230 0.199 0.053
0.100 0.007 14.3% 286 74.8% 250 48.3% 58 66.2% 80
14.1% 92 20.3% 64 5.3% 38 14.1% 92
5.0% 40 71.9% 96 75.6% 78 77.6% 76 48.3% 58
66.2% 80
rs2295458 AB_ASSAYS_ON_DEMAND 20 51.38 21587238
forward LGD
ACTCACTGACTAGCACAGGTCTAGAGAGCAAACAGAAGCTATTTTCAGGAAGGCAGAGTTGGAATGGGAAAGGTG
CGAAGGAAAAAGCCGTAAAATATGT[A/
G]GGACCCAGGTGTAAGAAGTAAGAGAAGTGGGCTGTCTTCAGCAGGGGAAGCGCCAAGACAGAGAATGTTAGGG
TTCCATACAGACTGACTTTGTTCACTC A/G extended_map 0.149
0.061 0.054 0.010 77.8% 198 23.4% 154 51.7% 58
33.8% 80 NA 0 68.2% 66 90.0% 40 79.3% 92
81.0% 42 NA 0 23.7% 76 23.1% 78
51.7% 58 33.8% 80
rs1203915 AB_ASSAYS_ON_DEMAND 20 52.1502 22567504
forward LGD
AAATTTCCTCCACAAAATTTGGACTGACATTGAGTTGGCATTGCCTACCCATGCATGAGAAAATAACATTATTAG
GAAAAATTAAAACTGAACCCATAGA[C/
T]TTCACAATTACCCCCTTTGTTAAGAAATACAACTGTTCTCCTTAGTGCACCACTCAATTTTTTCCCAACATAT
ATAACAGAAAATGCTCAGAAATTAAAA C/T 848 0.242 0.003
0.436 0.052 30.1% 196 96.8% 154 100.0% 58 80.0% 80
NA 0 25.8% 66 28.9% 38 33.7% 92
21.4% 42 NA 0 97.4% 78 96.1% 76 100.0% 58

80.0% 80
rs6048661 AB_ASSAYS_ON_DEMAND 20 53.2088 23246415
forward LGD
GCAGGAACACATAAAGTTCATTCATGGGTTGCTTTGAAGCACCATGCGCTTTTCTGGTATCGAGACTGAATAACA
CTTATGTCAGAAGTAAAACATTGCT[A/
G]CAGTGACAGCATGGTTGAGTGACATCATGCCTTCATTCCAAAGACCTGAGGTGTTGCTCCTGAGCCCCCGCTG
GGGATTGCGGCCCAGGTTCATGCTCTC A/G 603 0.251 0.113
0.087 0.235 82.7% 196 13.5% 156 50.0% 58 68.8% 80
NA 0 82.8% 64 87.5% 40 80.4% 92
64.3% 42 NA 0 12.8% 78 14.1% 78 50.0% 58
68.8% 80
rs717064 TSCAF 20 55.2711 30811356 reverse MIT
CCAGGTGATTTTAGATCCTTCTCTTTGCTTAGGTGTTTTTCCTCAGAGTTCTACAATGAGCATGTATTACCCATG
TAGCAAAAGAAAAGAAAACACAAAC[A/
C]AGATAAAATCATAATAGGGACATATTCCTGCCTACTGCTGTCTTCCTGCCCTGATTTCCTTTTTCTCTGGCTA
CCAAGTCATAATTACTAAGAGTTATCA A/C 1,723 0.149 NA NA
NA 40.6% 128 93.2% 148 NA 0 NA 0
40.6% 128 NA 0 NA 0 NA 0 NA
0 93.2% 148 NA 0 NA 0 NA 0
NA 0
CV27845099 APPLERA_RESEQUENCING 20 55.283 30937093
forward LGD
TGACCCTTGCTCAGCGACCGCGCCCGCAAGAAACGCATTCCCAGGCCTCCCGCCCGGGGTCTGCAGGTGACGGGC
TGGGGGGAGCACGGGAACTAGCTAG[A/
C]CCAGTTTGTCGTCTCCATGGCGACCGCCCGCGCGGCGCCAGCCTGACAGTCCGTCCGGGTTTTATGAATGGGT
GACGTCACAGGCCTGGCGTCTAACGGT A/C extended_map 0.232
0.029 0.517 0.064 83.2% 196 16.7% 156 3.4% 58
0.0% 78 NA 0 82.8% 64 85.0% 40 82.6% 92
95.2% 42 NA 0 15.4% 78 17.9% 78
3.4% 58 0.0% 78
rs880113 AB_ASSAYS_ON_DEMAND 20 55.5926 31873302
forward LGD
ACCATCTGCAGTCCTTGGACAGTCTCACACACAATTACACGCAGGCCCACAGCCATGCTCAGAATCCCACAGCAC
TCCACACAGCTTCACACATGTACAC[A/
G]GGAATCTTCCTCCCCGGCCCCCACACCTGCCCAGCACCGACCTTCCAGATGCATTCACTGATTCAACAAATCC
TTTTTGAGGGTCTTCTCTGTGGAGGCC A/G 72 0.36 0.026
0.691 0.026 10.1% 198 90.3% 154 100.0% 58 76.2% 80
NA 0 10.6% 66 5.0% 40 12.0% 92
35.7% 42 NA 0 91.0% 78 89.5% 76 100.0% 58
76.2% 80
rs7261312 AB_ASSAYS_ON_DEMAND 20 57.1298 34400585
forward LGD
TGCCCTCATGGGGCTTATACTTCTGGGTAAGATCTACCCTTTATTGAGCACTTACCATTGGCCAAGCACTTTCTT
TGCACTATCTTATTATTCTCGCAGC[A/
T]TTTTTGGGGAAGTTTTTCAAATCTACAGAAAGTTAAAAGATACACCATTAACACTCATATACCCTTTGCTTAG
ACTTGTCAGCTACTAAAACTATATTTT A/T 1,925 0.122 0.002

0.233 0.013 57.6% 198 9.6% 156 5.4% 56 18.8% 80
NA 0 43.9% 66 65.0% 40 64.1% 92
61.9% 42 NA 0 9.0% 78 10.3% 78 5.4% 56
18.8% 80
rs761312 AB_ASSAYS_ON_DEMAND 20 57.18 35403238
forward LGD
TCTTCAGTCTGAACAGTGCTTTTTCCCTAGTTGCAACTTTAGGCCCAGAAGCAGGAGCTCAGGGCAGATAGAGGC
CTGGAGTGGGCTCTGCATATGTTCC[A/
G]GAGGTGAGGATGCAACAGGAGAGTGTCCTGCTGTCAGGATTAGAACCCCAAGAAAGGGGTCCCTGGGCTCTGA
GTGAGCAGGCTGAATGGGCCGGTTGTT A/G 1,481 0.168 0.013
0.356 0.003 79.6% 196 22.1% 140 11.1% 54 27.5% 80
NA 0 87.9% 66 68.4% 38 78.3% 92
81.0% 42 NA 0 20.8% 72 23.5% 68 11.1% 54
27.5% 80
rs694379 AB_ASSAYS_ON_DEMAND 20 57.5993 35864925
forward LGD
CGACACCAGGGTCATAAGGTCCTCTCAGCAGAGCCACTGCAGCACCAAAGGCATTTCTGGAAGGAGGCAAGGACG
CGTCATCTAGATGTCAAGCCCCAGC[A/
G]TGCGATTCTGTCACAGTTCACCCCACCTTCACCCCGAGACGGAAGACGGAAGAGCTTCGCACACAGGCGGGAA
GAGGTCAGGACCAGTCCAGCCTCACTG A/G extended_map 0.147
0.139 0.009 0.013 78.8% 198 25.0% 144 69.2% 52
37.5% 80 NA 0 74.2% 66 87.5% 40 78.3% 92
69.0% 42 NA 0 22.9% 70 27.0% 74
69.2% 52 37.5% 80
rs1739650 AB_ASSAYS_ON_DEMAND 20 60.077 37728926
forward LGD
TGTAGAGCCTGTGCTGCCCTGGAGCCAGCTTTAATTGATCATAAGAATGTTTGGGGCAAAATGGCATAGGAAAAG
AACAGCAGTGGGAGAAAAGGTGAAA[A/
G]CCATAGGTAACCACAGAGAGGCCTGGAGCAATGGAGCTATTCAGAGAAAAATACAACAAACAGCCACCAGGAT
GGATTTGTTAGAACACATCAGCATTGG A/G extended_map 0.242
0.013 0.465 0.000 87.6% 194 21.2% 156 10.3% 58
20.0% 80 NA 0 86.4% 66 94.7% 38 85.6% 90
83.3% 42 NA 0 24.4% 78 17.9% 78
10.3% 58 20.0% 80
rs292858 AB_ASSAYS_ON_DEMAND 20 61.3531 39019008
forward MIT
ACAGGTAGGGAGTTGAGAAGGGAGGCTTGTTGAATATTTTAAAGAGTTGACGGGACCCCAAAAGCCTGCTTTGCT
AAATCTGAACATTAAACTCAGAAGC[A/
G]ATGTCGCTTGGATTCCTGGGAAGCATGTGTCCTGGAGGGTGGGGATTGGGACGGTGTTGTCAATTCTTCCATT
TGCATTTTCTCCTGACTCTTCACCTCC A/G 1,330 0.156 0.014
0.147 0.079 69.4% 330 13.9% 302 24.1% 58 43.4% 76
69.4% 134 72.7% 66 71.1% 38 66.3% 92
92.9% 42 15.3% 150 12.8% 78 12.2% 74 24.1% 58
43.4% 76
rs3092776 AB_ASSAYS_ON_DEMAND 20 61.6404 39388438
forward LGD

AAAGTAGCACAGGTAATCAACTTCATATTGCAAATTCAGATCACCTAACTTCTCTACAGTGTTCTTTTCCCTAAG
CCATAGGCGCCTCTCATGAAAAGTG[C/
T]TACCTTCCTCTTTCTCTTAAAAGACCTCTCTCTCTCTACAAAGACCTGGGACACACACTTATCCCTTCCTGCC
TCTAGCACAGAAGGTGAAAGGCTTTCT C/T 574 0.241 0.010
0.458 0.008 16.7% 198 84.4% 154 93.1% 58 76.2% 80
NA 0 12.1% 66 20.0% 40 18.5% 92
9.5% 42 NA 0 82.1% 78 86.8% 76 93.1% 58
76.2% 80
rs1406967 AB_ASSAYS_ON_DEMAND 20 61.7437 39521203
forward LGD
GTATTTAATTATTGTTATAATTGCTAGAATTATATATATATATATAAATTAAAACAATGTTCTGGTGGAGTCTGG
GAAGTTGGCGGTAATGGTGCCATAA[C/
T]TCTTGAATCTACCCAAATCCCACAGAAGCTACATATCAAAAACTTAAGCTCGTGGGTATACAGTCATGTACCT
GATAAGGACATTTTGGTTAGTGACGAA C/T extended_map 0.176
0.037 0.095 0.154 90.8% 196 37.2% 148 60.3% 58
82.5% 80 NA 0 95.5% 66 97.5% 40 84.4% 90
83.3% 42 NA 0 35.5% 76 38.9% 72
60.3% 58 82.5% 80
CV2471127 AB_ASSAYS_ON_DEMAND 20 61.8802 39617782
forward LGD
TCTTTGGATATGAACACATATCTATGTTTGGAAACATCACATAGATATGTGTTCATGTGTACAGTGTGTGTATAC
ATATATGCCATACTAAGACACTAAC[A/
G]TAAGCTTCCTGTGTGCCAGGGCAGTTTTTGGTTTGGGGAACATGGTGATTCACTTATGATGATCCCAGCCAAT
GGTTAATGTGGACACAAACACAGATAA A/G 934 0.225 0.011
0.449 0.005 25.0% 196 91.0% 144 98.2% 56 85.9% 78
NA 0 21.9% 64 25.0% 40 27.2% 92
2.4% 42 NA 0 90.5% 74 91.4% 70 98.2% 56
85.9% 78
rs2076250 AB_ASSAYS_ON_DEMAND 20 64.0315 41429828
forward LGD
CTGAAGTTCAGAGGTTTGGTGACTTGTCCAAGGCCATGTGGCCAGTTTGGGGACTGACTGAGTCCCCTTTCTGCT
CTGTCAGGGTGGAGCAGCTGAGTAT[C/
T]ATCAGCTGAGCAAAGATGAGAATAAAAGGTGGGAAATAGGAGGTGGAAGCAGAAGTGGTTGGGAGGGGGACAT
CATTAAGAGGTGGCAGTTGGGGGTCTG C/T 184 0.302 0.015
0.259 0.086 98.0% 198 34.0% 156 48.3% 58 68.8% 80
NA 0 100.0% 66 100.0% 40 95.7% 92
92.9% 42 NA 0 26.9% 78 41.0% 78 48.3% 58
68.8% 80
rs1157668 AB_ASSAYS_ON_DEMAND 20 65.4445 41961651
forward LGD
TTCTCAGACATTCACTTTACCCGGAAGTCCAGCTGTGACAGCTAATAGATGAAACCATCCAATTTGCAAGTTCCC
CTGAGTCTCTGCTGTAAAATCAGCC[A/
T]GATCCTCAGGAAGTTCCACACCTAGGTCTCCACTCTCAGCCCTATGACCTCACCTCCACAGACTCTGCACTTG
AGCATTCCACCCTCAGCGCTTGTGAAA A/T 1,765 0.143 0.056
0.436 0.021 30.1% 196 83.8% 154 100.0% 58 95.0% 80
NA 0 24.2% 66 30.0% 40 34.4% 90

23.8% 42 NA 0 85.9% 78 81.6% 76 100.0% 58
95.0% 80
rs927054 TSCAF 20 66.3114 42353225 forward MIT
GATTTGAGGGGAGCACCTGACAAAATTACTCTAAAGTTTTTCTGGGAGAATAAAAATGCAAAAATGCCTGGGAAA
CTTTTGAGATTTTAGAGTACTGGGG[A/
G]AATAATCCTCTCCAATATGAAAACATATCATAGCTACAGTAGTAAACAAGATAGCATCACTGTATGGATAGAC
ATAAATGAAAGCTAATTAGACCCCAAA A/G 1,514 0.139 0.086
0.031 0.004 68.7% 278 16.1% 254 48.0% 50 21.6% 74
72.3% 112 67.9% 56 75.0% 28 62.2% 82
65.0% 40 15.2% 112 10.0% 70 23.6% 72 48.0% 50
21.6% 74
rs730467 TSCAF 20 66.4831 42586114 reverse MIT
TGCAAACACACAGAGCAGCTCATTCATCTTGTCTTTTGCTTCTGCCCCGCATAGCTGAGAGGGACACCCACTGCT
TGCTCCTCTGACTGCTTTTCTCTCC[C/
T]GGGGCCCACGGGGCTGATACAGCCCCATGCTCAGCATGCTGCCCTCAGCAAGAGCACCCCTACGATCGATCCA
GGGCTGCACTGACTGTCCCAGGCCTCT C/T 809 0.193 0.001
0.345 0.019 39.3% 168 97.6% 126 100.0% 52 89.7% 78
NA 0 33.9% 62 36.4% 22 44.0% 84
37.5% 40 NA 0 96.4% 56 98.6% 70 100.0% 52
89.7% 78
rs6017119 APPLERA_RESEQUENCING 20 66.55 42882167
forward LGD
AGGTACCAGAGCTCGGGCACAGGCATTTCTTCTTCTGCTTCTCAAGCCGCAGCCTAGGGTGGCTTTCAAAGATGG
GTCCCACCTCTGACAGGTCCATGGG[C/
G]CTGGGTGCAGAAGTGGTCACAACAAAGGGTAGAGGGGAGGTGGTACGCAGGATGCTGGCCCTTCTCAAAGAAA
GCAGGCCAAGCCACCTCACCACAGGGC C/G 1,865 0.097 0.019
0.063 0.018 67.7% 198 23.1% 156 37.9% 58 37.5% 80
NA 0 69.7% 66 70.0% 40 65.2% 92
83.3% 42 NA 0 25.6% 78 20.5% 78 37.9% 58
37.5% 80
rs6031088 AB_ASSAYS_ON_DEMAND 20 66.55 43085266
forward LGD
CAGTGTAACAATTGAGGAGATTAAGGCTCAGAGAGGTGAAATGAATGGCCTGAGGTCACACAGCTGGCTGTCCAT
TCATTTGTTTACTCGTATGACAAGG[C/
T]TTACAGAGGTGCTTAAATCCAGCCAGATGCCAAGGTGAAAACTGATTTTCAAACCTGTCCTTCAGAAATAAAC
CTTCTTAAAAAAATAAAAAGAAAGAAA C/T 1,277 0.156 0.161
0.009 0.106 27.8% 198 83.8% 154 37.9% 58 47.5% 80
NA 0 24.2% 66 27.5% 40 30.4% 92
19.0% 42 NA 0 77.6% 76 89.7% 78 37.9% 58
47.5% 80
rs878522 TSCAF 20 71.8154 46302598 forward MIT
TTGCAACCTTTTTACAATGGGATCTGAGTTTATAAGCACCACACCAGCGATCGCTACGTTGTGTTTCATTAACCA
AGTAATAACTGATCTTGCCAAGGAT[A/
G]ACCTTATGATAACGACGTGCTCACAATAAATTTAGCCTTTCTCTGAAGACAACTGCAGGTTAAATGTTACTGG
TTGTAGTTCAGACCTTGGAAAATTGCT A/G 148 0.31 0.323
0.008 0.108 95.7% 184 26.3% 152 91.1% 56 65.0% 80

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        NA      0       96.9%   64      96.9%   32      94.3%   88
100.0%  40      NA      0       31.6%   76      21.1%   76      91.1%   56
        65.0%   80
rs3091653       APPLERA_RESEQUENCING    20      72.1882 46483305
forward LGD
ATAGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGGTGGGAATTTGG
GGAGTCAAAAATGCCCATTGATTGA[C/
T]TGATTGATTATCAAGTTATCCTTCTACTAGGAAGTGGGGTGGGAGAGGAGGGCTGCTTATAAGGACAAGGTGT
GCCTGCCTCCAGCCAGAACTGGGACTT     C/T             extended_map    0.049
0.075   0.277   0.001   18.2%   198     47.4%   156     79.3%   58
43.8%   80      NA      0       12.1%   66      7.5%    40      27.2%   92
        12.5%   40      NA      0       48.7%   78      46.2%   78
79.3%   58      43.8%   80
rs6018359       AB_ASSAYS_ON_DEMAND     20      72.3451 46559345
forward LGD
AATACACATATCCACCATACTCCATTTTCTAGTGCCCTAAGAAGCACTCAGTATTCTGGCACCAATCACCCAAAT
ACTGTCCTACTACTGTAAGAAAATA[C/
T]ACTTGGAGATGCCTAGGTGGCATGAGGGGAGGAAAGCAAAGCTGAAATCATCAAAACCTTTGAAATGAACACT
GCTTTTTTTTTAGAGAGGGAGTCTTGC     C/T             extended_map    0.178
0.002   0.242   0.045   66.2%   198     7.8%    154     10.3%   58
26.3%   80      NA      0       53.0%   66      70.0%   40      73.9%   92
        69.0%   42      NA      0       5.1%    78      10.5%   76
10.3%   58      26.3%   80
rs6018424       AB_ASSAYS_ON_DEMAND     20      72.6934 46672406
forward LGD
AGCGATTTCACACACAGCCCTCCATTTGGCAGCCCCCCCACCCCCCCATCTCTGGCACCGCTCCCCAGTAAAATA
TTAACTGGTTGTTCAGAGCTGCTTA[C/
T]AATTCTACCCACTTCAATTGCGTTAGGAGGTCTTTGCTGGTCTCCTCCCTAAAGCTGCCTTCGCAGTTGGTCT
GTACCCAGAGATAGAAAAGGACCGTAA     C/T             533     0.261   0.000
0.368   0.008   90.9%   198     23.7%   156     22.4%   58      15.0%   80
        NA      0       83.3%   66      92.5%   40      95.7%   92
95.2%   42      NA      0       21.8%   78      25.6%   78      22.4%   58
        15.0%   80
rs238191        APPLERA_RESEQUENCING    20      75.75   48577692
reverse MIT
GAGAGAAGACCTCATCTGGATGCCAGGCCCAGGAATTCCCATACCAACCACAGAGGTAAGCAAGGTTTCCTACCT
AATGAGAAGGAAATTCTAGTAATAA[A/
G]AGAAGGAAATAGGGCTCTCTATAAATGAGCAGGCCTACCTAAGATTGTCTGCATCTCTCAAGTAAAGAATGAC
TATGGCTGGATGCAGTGGCTCAAGCCT     A/G             1,932   0.09    0.150
0.000   0.046   41.4%   198     83.8%   154     39.7%   58      61.3%   80
        NA      0       43.9%   66      50.0%   40      35.9%   92
72.5%   40      NA      0       81.6%   76      85.9%   78      39.7%   58
        61.3%   80
rs6013031       AB_ASSAYS_ON_DEMAND     20      78.3836 50160013
forward LGD
GCTGCCTGGAGCTTCCTTCCATCCACCTCCATGCCCATCCCGTCCCCACACAGTCCCCTCTTAGCCTGCTTGTCT
```

GCTCCGGGAGCTGCCAAGAACTAGC[A/
G]ACTCCAGCCCCTGGGCCAGGCTTAACTCTGCTGCCAAACCTCCACCCCATCTTCATTCATTCATTCATTCAAG
TTAGTACAGTAATCCCTGGTATCCATG A/G 126 0.331 0.002
0.371 0.065 98.0% 198 29.9% 154 34.5% 58 60.0% 80
NA 0 100.0% 66 100.0% 40 95.7% 92
95.2% 42 NA 0 25.0% 76 34.6% 78 34.5% 58
60.0% 80
rs2281282 APPLERA_RESEQUENCING 20 78.5272 50260756
forward MIT
TTTAATCTGAAGGTTTCTTCAGGAAGTAAATATCTATTCATCACCTTTTCCCAAGCTCCATAAAGTTTTTTAGTT
TATCCCAGTCGCTAGGAGACAGAAG[A/
C]CGGAAGCGGAAATGCCTTTCACGACAACTTCCGGAAGAGGTCGCCATGGCTTCCCGGGAGGAGGTACTCGCCT
TACAAGCTGAAGTTGCCCAACGTGAGG A/C extended_map 0.233
0.005 0.373 0.003 96.2% 184 39.1% 156 30.4% 56
32.5% 80 NA 0 100.0% 64 100.0% 30 92.2% 90
100.0% 40 NA 0 39.7% 78 38.5% 78
30.4% 56 32.5% 80
rs768538 AB_ASSAYS_ON_DEMAND 20 80.4305 50719114
forward LGD
CGTGGACTCAGAATCACTTCTCACACACGTGCCTCTAACCACCCATTGCCTGTGCCTCTGGCTTTGTAACCTCAG
ACAAATCCCTCCCTTTTCTCAGCCT[G/
T]CTTTCACATCTAAGATGCAGAGATGACCATCCCTGCCTTCCACGGCGCCCAGTAAGGGGGAGGGATCATTAGC
ATTGTTACAATATTTCCTGTACTTGTC G/T 757 0.208 0.010
0.204 0.041 12.9% 194 74.4% 156 63.8% 58 51.2% 80
NA 0 13.6% 66 13.2% 38 12.2% 90
7.1% 42 NA 0 75.6% 78 73.1% 78 63.8% 58
51.2% 80
rs4811368 AB_ASSAYS_ON_DEMAND 20 82.1144 51869028
forward LGD
ATATATACATCCTTTTTTTTTTCCTCGAGAACCAGTTGTTAAACTTACACTAGCATGCTACCACCTACCTCCACA
CCTTTCTTCAAAAGATCTTTATCCC[C/
T]TGACTCACTCTCTTTTCTCCATATTCCTGATAAGGCTGTTCTTCCAGAAGCCAGAGGAAAGCCCTTTGTTATA
GTCTTTACAGGTTAGCCTTCCACACCT C/T 1,448 0.156 0.005
0.286 0.012 14.3% 196 67.5% 154 75.9% 58 55.0% 80
NA 0 13.6% 66 12.5% 40 15.6% 90
21.4% 42 NA 0 69.2% 78 65.8% 76 75.9% 58
55.0% 80
CV11178181 AB_ASSAYS_ON_DEMAND 20 85.4603 53194266
forward LGD
CTTTAACGACTTCCGTCCTGACAGCAAATGACTAAATAGCAAACCTCTACCCTGTCTCCAAGTCAAGCTTCCTCT
GAGCAGAGATTTTAGATGAGGAATA[A/
G]AGATGATGTCTGTCCAATGCTTAGTGCAAAAGAGAACCCAAGACATGGAAGTTTAGTTAGGTAGCTTAAAAAC
AATATTATTGGCCTGGCGCAGTGGCTC A/G 1,709 0.18 0.014
0.224 0.001 47.4% 192 100.0% 156 96.6% 58 100.0% 80
NA 0 39.1% 64 42.1% 38 55.6% 90
76.2% 42 NA 0 100.0% 78 100.0% 78 96.6% 58

100.0% 80
rs2426512 AB_ASSAYS_ON_DEMAND 20 86.8164 53745681
forward LGD
GATATTGCTAGTAACCCTCCCTCATTTCCTGCCCTATTCCCAGTGTCTTGCCCTTTACATGAACTAGGCACTTAA
TAAATCTGTGTTTAAGGACTAAATA[A/
C]ATTATTGATAAAAGAAGGATATATTCATGCGAGGTTTTTGTTGCACTCAAGAATGGCTAGGACATACAGAAAA
TACTTTTCAGAAGGTTTTTAAAAACTA A/C 688 0.31 0.033
0.622 0.000 4.5% 198 74.0% 154 91.4% 58 72.5% 80
NA 0 1.5% 66 2.5% 40 7.6% 92
4.8% 42 NA 0 76.9% 78 71.1% 76 91.4% 58
72.5% 80
CV3101607 AB_ASSAYS_ON_DEMAND 20 86.8393 53758139
forward LGD
GAGGAAAGAGCAGGAAAGTCGGTGTGCTACATCTAGAAAGCCATGGAGAAGAAGGGAGAATATGATCACAGATAT
AGTTAAGGGTCCCGATCATTAATTT[C/
T]GATGTCTTATAATTCAGTCCTGGATTTAAGAGGTCATAAAGATTGATAATAATAAAAAAATAAGAAATTTGAG
CATATAGTGGTCAAACTAATTTTTAGA C/T extended_map 0.302
0.026 0.591 0.002 6.1% 198 76.3% 156 91.4% 58
72.5% 80 NA 0 1.5% 66 7.5% 40 8.7% 92
0.0% 42 NA 0 78.2% 78 74.4% 78
91.4% 58 72.5% 80
rs967377 AB_ASSAYS_ON_DEMAND 20 87.1141 53907639
forward LGD
TTCCTGCCTTCTTTCTCAAACCACTCCCCTCCCCAGGGTAACTCAATGAATTCTCAGTGTCAGTAAAAGTTGCTC
AAGGAAGCCTGGGTCAGGTTCCCGG[C/
T]GATGCTTTTCCTAGCACTGCCTTCTGCTTCACAATTCATTCTACAGTTATTTATTGAACATGAAATGTAAACC
AAGCCATGCTCTAGGCATTAGTGGAAA C/T 1,188 0.237 0.019
0.190 0.151 6.6% 198 67.9% 156 51.7% 58 100.0% 80
NA 0 3.0% 66 2.5% 40 10.9% 92
2.4% 42 NA 0 69.2% 78 66.7% 78 51.7% 58
100.0% 80
rs1028546 TSCAF 20 87.8379 54423422 forward MIT
AGTAATTTAAACTTCAAGAGACCATAGGACTTGTGTAAGAAAATTATAAGTCGTCATGGAATGAAAAAGTTTTCC
AGTTCTGTGTTTCTCAAAGGTTGGT[C/
T]CAGATGCTCATATTGGTCTGTGAACTGTTTATCATCAGCCTGAGATGAGAAAGGTATAGAAATTAGGAATAAA
CATTTGGGCACTTATATAATTATTTGA C/T 83 0.35 NA NA
NA 10.3% 136 89.6% 154 NA 0 NA 0
10.3% 136 NA 0 NA 0 NA 0 NA
0 89.6% 154 NA 0 NA 0 NA 0
NA 0
rs6069230 AB_ASSAYS_ON_DEMAND 20 87.999 54593032
forward LGD
AATTAGAAGAACATGTTAACAAACAGTAATCTCCATCACATAAGTTTTATATCCTGAGTGTTTCATTTCTTGATA
TGATACACCCTCTGATGCAGTGCAC[A/
G]AACTCCAATATCTGTCAATATTTGTAGGAGAATGATAATGACGATTATGAAAGCTAACATGTATTGAGCACAT
ATGGTTTAGTTATTGCTGTATAACAGA A/G extended_map 0.366

0.000 0.461 0.034 96.5% 198 21.1% 152 22.4% 58
41.2% 80 NA 0 95.5% 66 97.5% 40 96.7% 92
97.6% 42 NA 0 17.1% 76 25.0% 76
22.4% 58 41.2% 80
rs211914 TSCAF 20 88.0046 54595388 reverse MIT
GTTTGCTTTGAAAAACAAAAACAAAACACAATATAGTCAGACATCTAGATGGAAATGTCCCGAAGGTTTACTTTA
GGAATAGGTATAATGTGCCTTCTCA[C/
T]TGGACTCACGTACACATTCCAGGCATGGCACTCTCAGCAGAAGGGTCACTACCTCCCCCTGGGGAAGGCTACT
TGACTATCCAAACTGATGAATTCCACC C/T 435 0.297 0.008
0.532 0.033 84.6% 306 10.5% 266 3.6% 56 0.0% 80
87.5% 112 82.8% 64 81.6% 38 83.7% 92
71.4% 42 11.6% 112 7.7% 78 11.8% 76 3.6% 56
0.0% 80
rs2426641 AB_ASSAYS_ON_DEMAND 20 92.006 55977682
forward LGD
AGCTTGTCAGCACTGGTGCTGCGTGTAGTCAGATGGATGCACAGATGTTTGAAACTCGGAAAGGTGCTAAAGAGG
CTTCTGGGCAATTAAGGGAGTTGGG[A/
G]GAAGAAGAATCTTCTAGCAGTAAAACAACCAGTCACCCAGCACCATAAGGGGCCTTGACGGGACTGAAAAGTG
GGCCTATCCATGTGAAGGGCTGCGTTT A/G 1,577 0.253 0.000
0.346 0.066 7.1% 198 71.4% 154 72.4% 58 41.2% 80
NA 0 7.6% 66 5.0% 40 7.6% 92
28.6% 42 NA 0 69.2% 78 73.7% 76 72.4% 58
41.2% 80
CV2433442 AB_ASSAYS_ON_DEMAND 20 92.3811 56098152
forward LGD
GATGCTGGTCCTGTGTCCAGCGCCTCTTATAACCATATTTAAAGGATGCGTATAGGTCTTTAGTAGATAGAAGAG
AGGAGAAGGTGTTTCAGGTGGAAGG[A/
G]AAAGATTGAGAAAAGTCCAAGGAAGTAGAAATTGGCACAGTGTTTAGTCACTATCCAGGAATAGTCTGCTTTG
ATCAAATGGTAGAACTAAGGATATGCC A/G extended_map 0.069
0.011 0.169 0.034 16.7% 198 51.3% 152 63.8% 58
29.5% 78 NA 0 15.2% 66 22.5% 40 15.2% 92
19.0% 42 NA 0 46.2% 78 56.8% 74
63.8% 58 29.5% 78
rs1318379 TSCAF 20 93.1819 56446707 forward MIT
AAAGCCAGAAGACTGGATGAGCTCGCCTGGGGAAAGTGTGTACAGCCTGACAAGCAATGTGAAGGTGGCCTCTGT
GTTCCACTGAGAGGTCAGGGGAATG[A/
C]AACGGAGACTGTGCAGGAGTACCCGGTAAGGAAGGATCTGGAAGACGCTTGGGCAGGAAGAATGGGGACACCA
ACAGGGTATGGGGTCCCGGAAAACAGG A/C 202 0.289 0.000
0.435 0.006 79.0% 310 5.7% 264 5.2% 58 10.0% 80
71.4% 112 89.4% 66 85.0% 40 78.3% 92
78.6% 42 5.5% 110 5.1% 78 6.6% 76 5.2% 58
10.0% 80
rs2426710 AB_ASSAYS_ON_DEMAND 20 93.4618 56638124
forward MIT
ACTCACCACCGTTCATGCCTCTGCTGTGCTCCGTGTCTGTTGCTCCTTCCATGTGGGGCGGGGTGTCCTCCTTCA
TCCCCATGATACCCCGCAGGTCAGA[A/

T]GTCCTCCTTTCTGTGAAGCATTCTCAGGTCAGAACTAATTCTGACCAAGGGACCCAAGGCAGTTATCCTGGCG
TTAAAGTCCTGGGGTGTTAAAAGGGGG A/T 500 0.271 0.021
0.492 0.006 98.4% 186 39.7% 146 23.2% 56 30.3% 76
NA 0 100.0% 64 100.0% 32 96.7% 90
100.0% 38 NA 0 40.3% 72 39.2% 74 23.2% 56
30.3% 76
rs735050 TSCAF 20 93.5158 56675040 forward MIT
CCACCTCAGGTGACTGACTGAGCCACGGTTACATCACCTAGAAATGGGTTAATAACCAAGGTCCTGCCTCCCAGG
GCTGTGGCCGGGATTACAGGGGATG[A/
G]GTTAGGTAAGGTGCCCCGTGCAGCCCTGGTGTGGAGTAGGCGCCCCTCAGGGAGCCCTCAGCCCCCACTGCTA
GCAGGGTAAGCGAAGCGATGGAGGGTG A/G extended_map 0.121
0.001 0.164 0.006 71.9% 302 22.5% 280 24.0% 50
14.3% 70 70.8% 130 66.7% 54 81.2% 32 73.3% 86
72.2% 36 25.6% 156 17.9% 56 19.1% 68
24.0% 50 14.3% 70
rs6099797 AB_ASSAYS_ON_DEMAND 20 94.49 57103748
forward LGD
CTCACGGCCACCTCTCTCAGAATGGAGGTGACTTGACTTCAGGCAGTCATCTGGAGAAGTCTCCTGCACCTGGGC
ACCACACTTCAGGGCAGATATGTCC[C/
T]TGCTGCTTTTTCTTAGGGCACATGGTTCAAGGACAGCCCTGGCAGCTGAAACCCAGGGTTTCAACCCCTCTCC
AAGCTCACCTGGTGCTGAAAACCTCCA C/T 1,198 0.195 0.085
0.056 0.361 8.1% 198 64.1% 156 29.3% 58 1.3% 80
NA 0 10.6% 66 7.5% 40 6.5% 92
14.3% 42 NA 0 62.8% 78 65.4% 78 29.3% 58
1.3% 80
rs514706 AB_ASSAYS_ON_DEMAND 20 95.5856 57501299
forward LGD
GGCAAAAGCTTTCCTTGAAGTCAATGGTATCTTTCCAGATGTTAAAAATTACATTTGCACAGTTACATATGATAC
TGTATAAACCAGTTCTTTTAAGTGC[A/
T]AAGGAAAATTGATTTCATACATTTTAATTTCAAGACTGCTGGAGGTCCTTACAGAAATACAAAGGCTAAAGTG
AAAGCACTGAGGAGCAACCCTGTGAGT A/T 2,109 0.053 0.062
0.001 0.069 62.6% 198 29.2% 154 58.6% 58 60.3% 78
NA 0 66.7% 66 67.5% 40 57.6% 92
80.0% 40 NA 0 27.6% 76 30.8% 78 58.6% 58
60.3% 78
rs4812110 AB_ASSAYS_ON_DEMAND 20 99.2158 58841210
forward LGD
TCATTAAAAGTTGTGGCTTTAGGGGCTGCAAAAGACAGTTTGAAATTTAATGCCTTGTTTCCTGGCTCAGCTCAG
AGTCGGGGCTGGGCAAGGCTCCCTG[A/
G]AGGCTATAACTCTGAAGACCCAGATTGGGTCTGGAGTTGCCCAATTCTTTTGAAATCTTAATGACAACCAGCT
GGACTTAGCAGGCTTTTCTGGTAGCAA A/G 567 0.267 0.097
0.088 0.068 2.0% 198 60.9% 156 24.1% 58 30.0% 80
NA 0 0.0% 66 0.0% 40 4.3% 92
2.4% 42 NA 0 64.1% 78 57.7% 78 24.1% 58
30.0% 80
rs1182522 AB_ASSAYS_ON_DEMAND 20 99.5698 59051486

forward MIT
TCTTTGAGCTTTGCTGGGAGGCAGTCAGCTCTCTGGTCTCAGCTATGACCTGGGACAACTCATATCTCCATGAAC
TTTGGTGTTCTTTTCATTAATTCAC[C/
T]AGGGAGGTGAGGGTAGAAGGAGAGCCTGGTGAGCACCTTTCAGCTCCACCATGGTATGAATGTTTGTCTCCTC
CAAAACTCATGTTGAAATTTAATTGCC C/T 120 0.324 0.004
0.405 0.295 12.9% 170 90.1% 152 85.7% 56 28.9% 76
NA 0 12.9% 62 3.6% 28 16.3% 80
8.3% 36 NA 0 93.4% 76 86.8% 76 85.7% 56
28.9% 76
rs194999 AB_ASSAYS_ON_DEMAND 20 99.9173 59257916
forward LGD
TGTTTCTGCTTTTGCATCTCATTAGCTTCATCATTTAACCCTACATCCTCATCTGTGAACTGGGATGATAAAGTC
AAATTCTTAGATAGGTTGTGGATCA[A/
G]AGAGGATGCCTATGAAGGCACCTAACACAAGGCAGAGCCATATAAAGTAATTGGCCAATGGCCACTGGTTTTT
CAAACTGGCTGCTTCTGAAATGGGCCC A/G 1,496 0.189 0.000
0.321 0.003 65.2% 198 5.8% 156 3.6% 56 9.0% 78
NA 0 65.2% 66 67.5% 40 64.1% 92
73.8% 42 NA 0 5.1% 78 6.4% 78 3.6% 56
9.0% 78
rs2011592 AB_ASSAYS_ON_DEMAND 20 100.3563 59518655
forward MIT
GGTGGATGAAGAGCTAATTCACTGAAACAAGGTGAGACCCCACGGACCAACCAAAATGTGGAATCAAGGCTGCTA
CTGTAAGGACTTTCAGCTGCTTAAT[C/
G]ATGTATATTCCTTCTCCTGTTATAGATGAGATGCCCGAGAATGTTCCCTCCCCAACTCAGAATCCTTTGCAAA
ACCACCAGGATCTTGGACAAAGAGGTA C/G extended_map 0.189
0.004 0.215 0.020 84.2% 330 25.0% 308 31.0% 58
11.3% 80 83.6% 134 80.3% 66 89.5% 38 85.9% 92
76.2% 42 20.5% 156 34.6% 78 24.3% 74
31.0% 58 11.3% 80
rs761260 AB_ASSAYS_ON_DEMAND 20 100.372 59527944
forward LGD
CTCTTGACCTCATCATCTCTCTTCGTGAAGGCCCCCCATGATTGAGGCTGGGACCAGGGCAGGCTGTCATGGATG
TGGCATGGTGACACCTACGAGGTTG[A/
G]TGGATTCTTCTCAGATTCTGCAGTGCCAAGGTCTCTGTCGAAGGTTACACTAGTATTCTGAGGGACGGGAGTC
ATTCTTAACTAGACAGGTGTGCCCATC A/G extended_map 0.161
0.004 0.185 0.013 20.4% 196 76.6% 154 70.7% 58
87.5% 80 NA 0 21.2% 66 10.0% 40 24.4% 90
21.4% 42 NA 0 74.4% 78 78.9% 76
70.7% 58 87.5% 80
rs817271 AB_ASSAYS_ON_DEMAND 20 100.8098 59787989
forward LGD
ATGCACAGCAGCAGCTGAGAGAAGCCAGCTGTGAAAAAGTGAGTGATCCCCACACCCATGCACATCATTTATTAT
AAAGACACTGCCATCATTTTTATCA[C/
T]GAAACTTCTACTCAGACAAAAGATTTAACATCAAAGAAGAGCATTGGTGAGGCTTCAAGTTGCTATGATTATT
GAGAAATCCTATAGTGGCTTGAATCGA C/T extended_map 0.086
0.053 0.324 0.001 31.8% 192 74.0% 154 94.8% 58

77.5% 80 NA 0 26.6% 64 34.2% 38 34.4% 90
31.0% 42 NA 0 78.2% 78 69.7% 76
94.8% 58 77.5% 80
rs6062548 AB_ASSAYS_ON_DEMAND 20 104.7226 62112041
forward LGD
CAAGGCCAGGGCTTGACTCTCCCACAAGACGGGCCTTGGGGTGGGGCAGCCACGTGCTTGTGGGCCTCAGCCATG
CACACAACATGTCCAGACCTGGGAA[C/
T]CTAGAGCCTAGGGCCTTTGCCACAGCTGGGACACCCCAGTGGTTGTGTTCCTTGCTGTGTACAGGCGGGACCC
TCGGGAGGGGCTCATGAAAGTGGGGGA C/T 20 0.44 0.002
0.548 0.010 4.0% 198 88.5% 156 85.7% 56 80.3% 76
NA 0 0.0% 66 2.5% 40 7.6% 92
2.4% 42 NA 0 89.7% 78 87.2% 78 85.7% 56
80.3% 76
rs6062890 AB_ASSAYS_ON_DEMAND 20 105.6722 62676052
forward LGD
TCGGGAGGCTCCTGAGGTGGCATCACAGGTGCCCAGGCCCCAGACCAGTCTGCTCTCGGGATGGCAGGAAGGTGG
CTGGGCATCCTAAGAGTGAATGGAA[A/
G]ACAGATAGGAGGCTACGGCCATTGGGACCCCAATTCTATCAGGGGCCCGAGACCCTGCTCCCTGGACCCCGAT
TCTATCAGAGGCCCGAGACCCTGCTTC A/G 1,269 0.224 0.044
0.123 0.000 93.9% 198 35.3% 156 60.3% 58 37.5% 80
NA 0 98.5% 66 85.0% 40 94.6% 92
92.5% 40 NA 0 33.3% 78 37.2% 78 60.3% 58
37.5% 80
rs387098 TSCAF 20 106.0172 62880942 reverse MIT

CACCAACTCCTGCTACCCTCACAGCTGTGTGTACATGGAGGAGGGTCTCTGTGGGCTTCATCTGGACACTGCAAA
AGGCTGCAGGGGGCTCAACTGCCAT[C/
T]AGGAGCAGCCTCCCACTCCTGGGTCCATCGGAGGCTCCCCCACCCAGCCTCAGCACTGACCACCGGCTTGGAT
GGCTGGGTGAGGCTGCCTCCACCCTGT C/T 315 0.439 0.002
0.624 0.022 2.2% 324 83.1% 296 87.9% 58 94.9% 78
0.0% 136 0.0% 62 0.0% 36 7.8% 90
0.0% 42 79.9% 154 90.8% 76 81.8% 66 87.9% 58
94.9% 78
rs310612 AB_ASSAYS_ON_DEMAND 20 106.0625 62907856
forward LGD
CGGCCCCGCATGCCCAGCTGCCCTGTCCCGCTGCCCTCCAAGTTGTGCCCGCCCGTCCACCCCTTCCTCACCTCA
CCCACCAGGCGCAACACAGCCCAGC[A/
G]TAGGGCCCCTGCCAGGTGTCGGTGTCAGCAGCCCCTTCCCTGCCTGCTGTGCCCCCCCCACATGACCTCACCT
CCTCCCTCAGCCCTAACCGGGTGGGTG A/G extended_map 0.405
0.057 0.801 0.003 99.0% 198 23.7% 156 3.4% 58
17.9% 78 NA 0 100.0% 66 100.0% 40 97.8% 92
97.6% 42 NA 0 25.6% 78 21.8% 78
3.4% 58 17.9% 78
rs2205283 AB_ASSAYS_ON_DEMAND 21 4.9677 14629700
forward LGD
AGGAAACATAAACATTGGAGGGAAGACAGAGAAAGGAACCTAAAGAGAAACTAACGGAGGGCCAGAAAGGTGGAA

AGAATATGAAAGTACAGTGGTGAAA[A/
G]GAAGTGAAGAAGGAGCCCTTTAAACAAGTGAGTGGTCAACAATATTAAATGTGATGAAGAGTTTAAGTGAAAT
AACTTTCAAAGTGTCTAATAGACACAG A/G 1,704 0.062 0.001
0.101 0.044 87.2% 196 56.5% 154 53.4% 58 80.0% 80
NA 0 93.9% 66 82.5% 40 84.4% 90
97.5% 40 NA 0 60.3% 78 52.6% 76 53.4% 58
80.0% 80
rs722098 TSCAF 21 7.3278 15607469 forward MIT
CCACCCCTCCCCTATAAACCTTAGGAATCCCCGTTCACTTAGATGCCAGCTTGGCAAGGAAGGGAAGTACACATC
TGTTGACAGTAATGAAATATCCTTG[A/
G]TAAGGATTTAAATTTTGGATGTGCTGAATATTTCTTTACCCAACAAAAACACTTTTAATTTCTTTATTGAAAA
CAATAACAGAAAAAAGTTACTCATTAT A/G 749 0.255 0.126
0.071 0.083 87.9% 298 20.1% 254 61.1% 54 52.6% 76
94.4% 108 87.9% 66 81.6% 38 82.6% 86
76.3% 38 18.8% 112 25.0% 72 17.1% 70 61.1% 54
52.6% 76
rs2823232 AB_ASSAYS_ON_DEMAND 21 7.3355 15612169
forward LGD
TATACATAGATGAATAAGCTGTTTCTAGAACTGACTGCGAAAACAAAAGATTCAATAGCAATGAAGTCTAGAGGT
AATAAGGCATGTATAGTAATTAGTT[A/
G]TAGTTAGACCTCACTGATTCTGAATAAGTAGAAGAAAAAAGAAATGGAAAATGGAAAAAGGGTAACCCAGAGA
ATGAATTAAAGCATGGTTTTCAAACCA A/G extended_map 0.232
0.056 0.124 0.066 12.1% 190 76.9% 156 50.0% 58
47.5% 80 NA 0 8.1% 62 10.0% 40 15.9% 88
17.5% 40 NA 0 74.4% 78 79.5% 78
50.0% 58 47.5% 80
rs2823622 AB_ASSAYS_ON_DEMAND 21 9.1756 16453981
forward LGD
ATTCATAGTCAAGTCTCATCTTGTTCCAGAGCAATTATGGTGGTTGGGAAGCCCAAGATGAGAAGGGTAACACAG
GAACAAGGAAGCTGAATCCTAACAG[A/
T]CAATCCTGCTTGTTCCTACTATCTCATACCTTACCAGCATTCCATCCTGAGGACTTAACTACCAACTTCAAGC
TAGCCCATGTCTCATCTTGTGGTTCAT A/T extended_map 0.232
0.038 0.499 0.161 97.4% 196 42.9% 156 20.7% 58
3.7% 80 NA 0 98.5% 66 100.0% 40 95.6% 90
97.6% 42 NA 0 43.6% 78 42.3% 78
20.7% 58 3.7% 80
rs1689045 AB_ASSAYS_ON_DEMAND 21 9.636 16525943
forward LGD
AGGATACATGAAGTCATTCTTCTTCTTTATAATTATGTGGCAGGAACTATCTCCCTGAAAACTTTATGCTTAAGT
TTTTGACAATCACACTGTCAGTCAG[A/
G]TGGTGCAAAGTCTTTTAATACTGTTTAATATAAGGGAGTTGTCTAAAATACGGATAGTTCTCCATCTGAGCTC
ATGACCCAAGCAATGTGCTTCAAAATT A/G 171 0.312 0.000
0.494 0.000 24.7% 198 99.4% 156 100.0% 58 100.0% 80
NA 0 24.2% 66 22.5% 40 26.1% 92
19.0% 42 NA 0 98.7% 78 100.0% 78 100.0% 58
100.0% 80

rs183564 AB_ASSAYS_ON_DEMAND 21 9.8647 16561693
forward LGD
ACATGGGTATGAAAAATAATAACATGGGAAGATGGTATCTATCATTTGACGGGCTTTCATCAACCCTGTATGATA
CACTCCAATCCTATCATGAGCTCTT[C/
T]GAAAAGGATTTAGTCTCTTTTTGTCAGATGAGGATAACCCCAGACATTTAAGGAGCTGATGTTTTCTCAATTC
CAGAAAAAGAATTGGAACTCAAATCTG C/T extended_map 0.313
0.000 0.506 0.084 76.5% 196 1.4% 148 0.0% 56
22.4% 76 NA 0 80.3% 66 82.5% 40 71.1% 90
60.0% 40 NA 0 1.4% 74 1.4% 74
0.0% 56 22.4% 76
rs764657 AB_ASSAYS_ON_DEMAND 21 12.2884 17848524
reverse MIT
CAGGGTGAACTGTGTCAATGCTTCCCACTTACCCATTCTTAGGACATGCTGGGGTTCAAAGTTTAATATAAAAAG
GCCATTCCTACTGCCGGGCAGTCAC[A/
G]GCTCCTGCCATGAGTGAACTGAGCCACATCATGTGCCATCCCCTACCACCCAACTCAGGTTCCTTTTTGGGAC
ATGTTCTGCTGTAATGTTCTCTTCAGT A/G 389 0.304 0.004
0.450 0.031 97.6% 330 33.1% 308 25.9% 58 53.7% 80
97.8% 134 95.3% 64 97.5% 40 98.9% 92
100.0% 42 29.9% 154 34.6% 78 38.2% 76 25.9% 58
53.7% 80
CV2966177 APPLERA_RESEQUENCING 21 12.5732 18032923
forward MIT
TGAAAGACTCCTGAGGCTGCCACATGGCTGGTTAATGTTTACAGGCAAAAAAAAAAGGTAATTGAAGAACAGAAGA
TGGAAGGAGGGATACAGACGGCTCA[A/
G]CCAGTTAAAGCTTGGTATTTGCCTGTTGAACCTGGTTTGAATAGCTGGCCACCTGTGATTGACTGAAGCTCTG
CTGCCGTGATTGGCCGAGACTCAGCTA A/G 1,068 0.192 0.000
0.312 0.000 43.3% 178 99.3% 150 100.0% 52 100.0% 80
NA 0 35.9% 64 50.0% 28 46.5% 86
60.0% 40 NA 0 98.6% 72 100.0% 78 100.0% 52
100.0% 80
rs2825942 AB_ASSAYS_ON_DEMAND 21 17.7152 20308122
forward MIT
ATCATGAAAGAGAATAGAAAATCAATACATAGCAATTCCCCAGAAATTAAATGACTCTAGGGTGGAGGGGTCCCA
TGGGACATAGAGAGAGGTAGCTGGT[C/
T]CTAAGGATTTGTCAGGTCTAAACCATTAGCATTTCCATTACCAACTCTTCTTTTCTGAAGGGGTATTAGAATG
AATTAGAACCTGGTCTGAGTGCTTAGA C/T extended_map 0.181
0.002 0.301 0.002 87.8% 196 31.0% 142 25.0% 48
36.2% 80 NA 0 82.8% 64 90.0% 40 90.2% 92
88.1% 42 NA 0 32.9% 70 29.2% 72
25.0% 48 36.2% 80
rs2825978 AB_ASSAYS_ON_DEMAND 21 17.8236 20351585
forward LGD
GTGTTTCCAAACCCAGAATCCAGAAGGCCAGCCTTCAAGCCCAGACTGAATTCTGTGCCAGGGGAAGCATCAGAG
CCCTGGCATCAGGAACTGGCCAATT[C/
T]GCAGGTTGGTAAAAAGAATTTACCAACTACAGTATAGGTTTGAAAAAGGAAAGTTTATTAGAAAGCACGCTGC
AAAAGGGTGCAGTGGGGCACCTCTGCA C/T extended_map 0.265

0.090 0.128 0.079 19.2% 198 90.3% 154 60.3% 58
62.5% 80 NA 0 12.1% 66 32.5% 40 18.5% 92
28.6% 42 NA 0 92.3% 78 88.2% 76
60.3% 58 62.5% 80
CV2203287 AB_ASSAYS_ON_DEMAND 21 18.1669 20489220
forward LGD
ATTAGAAGCGGTTCAAATTAACCAGGCATTTCCCACTATTTCCAGAATGAATTTAAAAAGTCCAAATACATCCAT
AAAGACTGATACACTGAAACCATCA[C/
G]ACACATGGTTTTATCAGAGCATATTCTCTTTCCTAACTAAAAATAACCTCCTTCTGAGAATAAAAATCTGAAA
AGAAATTCCATTCTTGATTATCTGCAA C/G extended_map 0.222
0.044 0.137 0.041 14.3% 196 78.6% 154 55.4% 56
56.2% 80 NA 0 4.5% 66 15.0% 40 21.1% 90
19.0% 42 NA 0 83.3% 78 73.7% 76
55.4% 56 56.2% 80
rs1487940 AB_ASSAYS_ON_DEMAND 21 18.2565 20525155
forward LGD
TAGTCTCAGATATAAATTTAGTTTTTATATTACTTAAAGCAAAAAATACAGATTTATAACATTCTTCAGTTTAAG
AATATGATTCATATAATTTCCTGCT[C/
T]TCAAGAAACTTTTCTCTTCTTAGTAATATACATTACTAAAATATATACTCTAAAAGGGCTAGACTTTTCATCT
GTTACATTTTGTATCTATCTCTAAAAC C/T 193 0.286 0.063
0.162 0.113 90.8% 196 20.1% 154 48.2% 56 58.8% 80
NA 0 93.9% 66 95.0% 40 86.7% 90
85.7% 42 NA 0 17.9% 78 22.4% 76 48.2% 56
58.8% 80
CV3027025 AB_ASSAYS_ON_DEMAND 21 18.6436 20680354
forward LGD
TCCTAGACTACAAACTATATTAGTGACTCTCAGTGTTATTCCCCCTCTCCCTTAGGTGGGACTGGATGGCTAGAG
AAGACTACGATTGGGTATTTCCCTT[C/
T]ATAGAAAGAAAGAGCTAAAACTAACTGGAGTTTGGTATTCCCCTTTTCCAGGTAGGGTAAACTCTGATAAAAT
CCCATCAGGTTAGGCTATAGTAAAATA C/T 751 0.227 0.006
0.265 0.040 19.4% 196 85.7% 154 79.3% 58 65.4% 78
NA 0 19.7% 66 12.5% 40 22.2% 90
23.8% 42 NA 0 87.2% 78 84.2% 76 79.3% 58
65.4% 78
rs2826241 AB_ASSAYS_ON_DEMAND 21 18.7221 20711806
forward LGD
TTGTCAACAGCTGCGGAGGACAGAAACACAATGAACAAAAAAATGCAGCTTTCTCTTCAGGTGGTGATAACAAGT
TCTAGTACACATAGAAATCCTCCAC[G/
T]GCTTTATTTTCTCTGTACATTTGATTTCCAGTCACAACTTGCCTTTATATCAATTCAATCAACACAGAGACTA
TTGACTTTATACAAAGCAATTATTAAT G/T extended_map 0.106
0.006 0.219 0.029 77.3% 198 31.4% 156 22.4% 58
51.2% 80 NA 0 83.3% 66 72.5% 40 75.0% 92
88.1% 42 NA 0 26.9% 78 35.9% 78
22.4% 58 51.2% 80
rs1041416 AB_ASSAYS_ON_DEMAND 21 21.4427 22464314
forward LGD

GATATCTCTTCGAGGTTCTGCTTTTCTTCATTTTGGATATACGCAGAGGAGTGAGGTTGTTATTGTCAGTGTCTG
TTTCCCTGCATTATGCAGCCACTAA[A/
G]GTCTCTGGTCAGGTTTTTTAAAGATTATTTTCACTTTTATTATAAATTGCCAGGTGTTGCCACTTATTTAGTA
AAGCTTAGGGTTCAGCCAGTGATCAGA A/G 1,859 0.093 0.007
0.085 0.108 23.2% 198 66.2% 154 56.9% 58 96.3% 80
NA 0 21.2% 66 30.0% 40 21.7% 92
11.9% 42 NA 0 67.9% 78 64.5% 76 56.9% 58
96.3% 80
CV2807839 AB_ASSAYS_ON_DEMAND 21 23.6372 24239640
forward LGD
TGTGAAGCTTTGTATAATAAGAAAAGGCCCTAGAGATGAAATTCACATAATACTTCAAGTTATTTCAGAAGACTT
ATGTTTTACCAAAGGGAGAAAAACA[A/
T]GGCCAAAAAATAATCCTTAATAGTAGTTGAAGTAAATTACTACAGTGCAAAAGAGAACACTTTTGGTGCTTGA
TTCTGACTCTAATGCCCACAGGGATTT A/T 414 0.201 0.000
0.315 0.025 74.5% 196 11.7% 154 10.3% 58 26.3% 80
NA 0 74.2% 66 77.5% 40 73.3% 90
76.2% 42 NA 0 11.5% 78 11.8% 76 10.3% 58
26.3% 80
rs762303 TSCAF 21 23.8378 24323013 forward MIT
CTCAAAGCTAAAAGTCTAGACTATTTGTGATCCGAAAGTTTACTGGGTTCAGGAAACTATCGAAGTGGCAGATGG
GAGTTTCATATTGTTTTCTGGAAAG[A/
C]TACAGGAAAGAATGAGGTTTGTAGCCAACATACATTAATACAACCAGCTCTGATTCTACTTGCTGTGGCATTG
TATACATTCCCTAAAATCCTTTAAGGA A/C extended_map 0.097
0.000 0.116 0.005 97.2% 246 67.4% 230 70.0% 20
76.3% 38 96.2% 132 100.0% 34 100.0% 24 96.4% 56
90.0% 30 64.6% 144 61.9% 42 81.8% 44
70.0% 20 76.3% 38
rs2572307 AB_ASSAYS_ON_DEMAND 21 24.4279 24594331
forward LGD
AAAAAATGAACAATGTATGTAACTTTGGGGCATAAATAAATAATACCAAATAAAGTAGAGTTTGTGTAGCTATGC
CATCATTCAATCAATAGTCATAAAC[A/
G]CTCAGTTTAGCACCCTTCTAAGGATTATAGGCGTGAGCCACCATAATGGGCCCAGTTTGTTATTTTGAAATAT
CACTTTTATACATGATACGTGGATACA A/G 875 0.189 0.002
0.298 0.001 45.5% 198 100.0% 154 100.0% 58 100.0% 80
NA 0 50.0% 66 50.0% 40 40.2% 92
42.9% 42 NA 0 100.0% 78 100.0% 76 100.0% 58
100.0% 80
rs1008552 TSCAF 21 24.4337 24599353 reverse MIT
TTCTTTTCCATCTCTGTATTTCCTTGGTAGAAGGGACAGTATGAACAAAGCTGGAATTCAATCTGTTCACACTTT
TGTACTGAAAATATGTAAGTATCCT[C/
T]CAATACTATGTGTTATATAAAAAATTACTAACCATAAAATAATTGTCAGGAAAACCCAACCTTCCTATTGACA
GTTTTACCAAAGCATCAAAAATAAATT C/T extended_map 0.187
0.002 0.295 0.001 54.1% 170 0.0% 154 0.0% 58
0.0% 76 NA 0 50.0% 60 46.4% 28 59.8% 82
52.8% 36 NA 0 0.0% 76 0.0% 78
0.0% 58 0.0% 76

rs380417 AB_ASSAYS_ON_DEMAND 21 25.7819 26194030
forward LGD
AACTAATGCTTGTTGTTTTAAGCTGCTAAATTCTCGCGTTATTTGCTACGTAGCAATAGGTAACTAATGGGCTAG
GGCTTTCTTTTCTCATGTTGATCTA[C/
T]CTCGGGCTTTAATTTCCTTTCATCAGAAGTTCATTCTCTTTAATATAGACATAAAAGGCACAATGGAAGTGGG
ACAGTTTCCCTTTCTCATTCTTTAACT C/T 651 0.185 0.114
0.038 0.140 81.3% 198 21.4% 154 60.7% 56 65.0% 80
NA 0 86.4% 66 80.0% 40 78.3% 92
90.5% 42 NA 0 25.0% 76 17.9% 78 60.7% 56
65.0% 80
rs2032258 AB_ASSAYS_ON_DEMAND 21 26.7611 26696989
forward MIT
ACTTCATGCCATAAAGGGAGCTGAAAAAGCTAAAGCATAAATGGCAACATCTGCATGAGGTATGGAGCCAGGGAG
GAGACAGAAGCATGCAAATCAGTCG[C/
T]GCACTCTCAACAGAATTCCAAGGTCCAAAAAACAATCTGGGAAGATGTTTACAGAACACAAACTCATCCACAT
CAAAGGAGTAGAAAAGATGAATAATTG C/T 1,480 0.192 0.108
0.038 0.134 6.8% 190 61.2% 152 22.4% 58 18.8% 80
NA 0 3.3% 60 0.0% 38 12.0% 92
0.0% 42 NA 0 62.2% 74 60.3% 78 22.4% 58
18.8% 80
rs2830825 AB_ASSAYS_ON_DEMAND 21 29.1102 27568927
forward LGD
TCAGCTGAATTAATTTGTCTAACTGATGCAGATCTTGACATTCTTATGTAAAAATGAGGATGATGCATCAGAGGA
CTGCGATGCTCCCTTTGAGTTTGAA[A/
G]GCCTAGGAATCTGAAACTGATGATGGTAAACAAAACTTCTGGAAAGTTGGTTGGATATGATTGGATAACATTT
TGTCATCTTTCTGCTGTGTGACAGTGT A/G 1,612 0.165 0.000
0.203 0.030 94.4% 196 46.5% 144 48.2% 56 67.1% 76
NA 0 98.5% 66 100.0% 40 88.9% 90
100.0% 42 NA 0 45.8% 72 47.2% 72 48.2% 56
67.1% 76
CV2870463 AB_ASSAYS_ON_DEMAND 21 31.03 29293760
forward LGD
TCTTGGGTCACAATCTCTCTTGCCAGATTCCTCATTTAACTGTTTCCACCTAGACATTCTTCAAGGAAATCTTAA
CCTTGCATTGGCCCTTATATTTTCT[A/
G]GCTAACTTTAAGGACTCTTTTCTCTTTACTCTCTTCATTGTTCACTTTAGAGTTCATGATCTTTTGTGTCAAT
CACTCTCTTGCCAATACCACGAAGTCT A/G extended_map 0.153
0.049 0.062 0.132 88.4% 190 37.3% 142 63.8% 58
79.7% 74 NA 0 85.9% 64 92.5% 40 88.4% 86
65.0% 40 NA 0 41.4% 70 33.3% 72
63.8% 58 79.7% 74
rs2070398 AB_ASSAYS_ON_DEMAND 21 31.0649 29798811
reverse LGD
AACAATGTCAAGAACACTCTCAGTGTTGGATACTTTATTATTTCTACCACGGGATGAACAGCTTTTAAGGAGATT
GGTCACAATATACTGACCTATGCAC[A/
C]AATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCAAGAAACCTGGTCACATTAGGCTGTTCACTCCTC
CTGCTCTAGAGCCCCAGCTAAGGGGCT A/C 82 0.353 0.083

0.187 0.041 5.1% 198 80.8% 156 48.3% 58 58.8% 80
NA 0 4.5% 66 5.0% 40 5.4% 92
14.3% 42 NA 0 78.2% 78 83.3% 78 48.3% 58
58.8% 80
rs363429 AB_ASSAYS_ON_DEMAND 21 31.1701 29894825
forward LGD
GTCTTCTGTCACTCGTTTCTCTCTTTTAACCCATAATTTCTCAACTCATAATTCCATCTAAAAATAGCGAAATAT
CTTTGATTGGGAGTCAAGAAACCAA[A/
G]TTTAGTCTTTAAGCCACTATCAAGTTTTGCGGCCTTGGTTGAGTCATTTTGTCCCTTTTTTAGGCCACAGAGA
AATGCACAGTAAGTGAAGATTTTGCAT A/G extended_map 0.238
0.028 0.155 0.025 98.0% 198 43.6% 156 63.8% 58
62.5% 80 NA 0 98.5% 66 100.0% 40 96.7% 92
90.5% 42 NA 0 46.2% 78 41.0% 78
63.8% 58 62.5% 80
rs363422 AB_ASSAYS_ON_DEMAND 21 31.1827 29906392
reverse MIT
TCTTCTCCTAAAAACTACATTGGCCATACTAGCCACAGCTCACTTTCCCAATTTTATAAGACTTTTATTAGTGTT
ACTATTTACCTATTAATTTCCTGTA[C/
T]ATGGGTGGTGGATGGATAGATAGATAGATAAATACCTTAATCATCAGAGTAAACTTCTTCAGAACTGTAATCA
GACCCCAAGCTTAATAACTGGCTTGAA C/T 846 0.261 0.025
0.184 0.035 1.8% 332 58.5% 306 39.7% 58 36.2% 80
1.4% 138 1.5% 66 0.0% 36 3.3% 92
9.5% 42 61.0% 154 52.6% 76 59.2% 76 39.7% 58
36.2% 80
rs2254136 AB_ASSAYS_ON_DEMAND 21 31.2498 29967655
forward LGD
AAATTACTCAGTCTCAGGTAGTTCCTTATAGCTGTGTGAAAATGGACTAACACATGAATCTTTTCTCTTTTTACA
CAAAGATTGAATTGCTAGAATAGTA[C/
G]GCTTCCTGGATTCTTGCTCCTTTTCAAATCAGTCAACTGAAGTCCCTCAGGTACTTATAATCACCTGCTTGTC
TTCTCACTTCCACAGCCACGTCATGAA C/G extended_map 0.272
0.042 0.201 0.064 15.7% 198 87.2% 156 67.2% 58
61.3% 80 NA 0 13.6% 66 10.0% 40 19.6% 92
26.2% 42 NA 0 91.0% 78 83.3% 78
67.2% 58 61.3% 80
rs4383420 AB_ASSAYS_ON_DEMAND 21 32.9923 31462369
forward LGD
GTTAAAACTATCAATATGGAATTGCATTTTCAGCTAAAATATCATCCACGAAGGAGACTTTAAGACTTTTGAGAA
ACAAAGAATGAGAAAGTTTATCATG[A/
C]ACAGAATCTCACTGAAAAAGTTCGCTAAAGGATGTACTTTCAGGTGGGGAAAGAAAGAAAAAGATCTGGTATA
CAAGCGAAAATGATAAACAGCTGATAC A/C 2,065 0.064 0.000
0.104 0.000 25.8% 190 0.7% 150 0.0% 54 0.0% 76
NA 0 19.0% 58 27.5% 40 29.3% 92
22.5% 40 NA 0 1.4% 72 0.0% 78 0.0% 54
0.0% 76
rs2282099 AB_ASSAYS_ON_DEMAND 21 35.3254 32622857
forward LGD

TTAGTGCCAGGAATTTGCCTCTTCCAATGAATGAGTGTGCTTCCTTTCAGCAGTCAATGAAATCTGTTTAAAAAC
CAGGCCTCCATCTTTCGTTTGGGAT[A/
G]ACAAGATGCTCAGAGCAACATCTAAGAAATGTACTTTTTGGGGAGTGTTTTTTTTTTTTTTTTTTTTTTGGG
TATATCCATTTCCCTCTCCACCTGTAT A/G extended_map 0.225
0.040 0.134 0.031 92.3% 196 31.8% 148 55.4% 56
52.5% 80 NA 0 95.5% 66 100.0% 40 86.7% 90
95.2% 42 NA 0 35.5% 76 27.8% 72
55.4% 56 52.5% 80
rs2010203 AB_ASSAYS_ON_DEMAND 21 35.4197 32653106
forward MIT
TTGGGTTCTCATCCTCTAGCCGGCTCTCTGGGCTTCTCCTTTGCTACCAAATACTAAATGGCCACATTCTAGTAA
ATTTCATATTTCCACAGCAAAGAGA[A/
G]CTTTTCACCTTCAAATGATTAAAAAGTGAATTGCAGCTTTTGAAAAGGAGTATTTCAATAGCTCATATAAATT
CCAAGAATGATATTTTTGCAAGTCTTC A/G 598 0.266 0.047
0.158 0.034 5.8% 312 70.1% 264 44.8% 58 48.7% 80
2.6% 114 4.5% 66 0.0% 40 13.0% 92
4.8% 42 73.2% 112 64.1% 78 71.6% 74 44.8% 58
48.7% 80
rs7282496 AB_ASSAYS_ON_DEMAND 21 38.0715 33739978
forward LGD
AGAAAAAACATGTTTAGACCTAGTTCAGCCCAGGGTTTCCCAAGCTTCTTTGACACACACACCTTTTCTCAGGTA
CACCTTCAGGGCCACCAGTGTTCTA[A/
C]AAGCAACTTGGGAAAGGTGCAACTAAATCTAAAAAGGAGAGCTGAGTGTGGTGGTGCACACCTATAGTAGACT
GAGGGGAGGACTGCTTGAGCCAAGGAG A/C 1,973 0.09 0.148
0.001 0.166 82.3% 198 41.7% 156 85.7% 56 87.5% 80
NA 0 80.3% 66 80.0% 40 84.8% 92
85.7% 42 NA 0 38.5% 78 44.9% 78 85.7% 56
87.5% 80
rs2834377 AB_ASSAYS_ON_DEMAND 21 39.1149 34383059
forward LGD
TTAAAGTAAGCAGGGGTTGAGGACAGTCCTATGTGAGTACACATACACTCTGCATCAAGCGTTAGTAGTCTATTC
CACCACAGGAATTTGCTTTCCTAGA[A/
C]CTTGAGTCAAGGTGACAAAAGTGAAAGCATGTATGTAAAGTCTTAAGAATTTTATATACATTTTTTCTTTTTG
TATTTTACTTGAAGTGATTTAAGTAGG A/C 1,809 0.159 0.011
0.341 0.000 59.7% 196 5.8% 156 0.0% 58 6.2% 80
NA 0 65.2% 66 57.9% 38 56.5% 92
76.2% 42 NA 0 5.1% 78 6.4% 78 0.0% 58
6.2% 80
rs2243988 AB_ASSAYS_ON_DEMAND 21 40.8623 35122836
forward LGD
AACTTTAATTTTGGGGGAAAATAATTAGCAAGACAGAAGTTACTTGGAATACTAAAAATCAAGAGATGATTTGAG
AGGTCAGGGACCCCTCTTGGCCATA[C/
T]GGAACACTCAAAGTGAGGCACGCATACTCATAAAAGTGGATTAGATGTTGACTGGGTTTGGATGATAAGCACT
TGGTCCCAATGAACTTCAAAAGTAGGA C/T 1,443 0.194 0.067
0.068 0.004 95.4% 194 43.5% 154 74.1% 58 51.2% 80
NA 0 95.5% 66 100.0% 38 93.3% 90

95.2%	42	NA	0	39.7%	78	47.4%	76	74.1%	58
	51.2%	80
rs2252585	AB_ASSAYS_ON_DEMAND	21	40.9556	35162325
forward LGD
GATTTGGCCAGAATGCAAGATAATAGTGTAGTAAGAACCCTTCCAAGTGACAGCCAGATGAACCAGTGCTGAGTT
TATACGTGGCCAAAAGAGAAAAATA[C/
T]GCATGGATGTTCACTTGCAGTTTATGAAAATGCTGAGACACAACCTTAAGAATGGCTTCCAGCGGAACATCCG
GAAGTCCTCAAGTAGTCCAAGGCGAGC	C/T	extended_map	0.108
0.119	0.004	0.002	29.6%	196	76.6%	154	36.2%	58
72.5%	80	NA	0	31.8%	66	22.5%	40	31.1%	90
	26.2%	42	NA	0	76.9%	78	76.3%	76
36.2%	58	72.5%	80
rs2064056	AB_ASSAYS_ON_DEMAND	21	41.7899	35515504
forward LGD
CCTAAGTTTCTTTATTTCGGAACTAAGCAGAATTACTTGTTTCAGTGAATACATTTGTGGACCACAGCAATGGGG
AGAAAGGAGCCTGAGAAAAGTGTTC[C/
T]TCCGGCCCTTGAGGTCAAAGACCTGTAGGAAGTGGTATGGCAATGACCTTCAGTGACAGCAAGCCCGTGATGT
GACTTCAGCAAAGTGGGATGGGCCATT	C/T	31	0.421	0.037
0.320	0.035	99.0%	198	21.8%	156	43.1%	58	42.5%	80
	NA	0	98.5%	66	100.0%	40	98.9%	92
100.0%	42	NA	0	26.9%	78	16.7%	78	43.1%	58
	42.5%	80
rs958339	TSCAF	21	42.415	36215228	forward MIT
TTATGAGAGAAGACACCACTGCAGCCCCACATCCCGTGATCCAAGGGCAGATACCTAGCACATATCAGGTGAATA
TCTTGTTTCTCCATGTTAAATTGTG[C/
T]TTAATTGTTTTTCTATTTGCAAACATAGGTCTCCTTCATACTGGGCATTGACCACAATGGGTGGCCAAAAAGA
GAGAAGATTTTCTTGAATATGAATACA	C/T	1,140	0.239	0.014
0.255	0.116	76.0%	304	8.5%	260	17.2%	58	42.5%	80
	75.5%	106	78.8%	66	67.5%	40	78.3%	92
72.5%	40	11.3%	106	7.7%	78	5.3%	76	17.2%	58
	42.5%	80
rs219754	AB_ASSAYS_ON_DEMAND	21	43.0045	36767737
forward LGD
GAAATAAGAAGCAACATGATGTCTTGAGACAGGAGATGGGGGAGGAGGTGCGGGAGGCTTGAGCACAGAGGAGGA
GACCATGGTCATCCAGGAGAATGAC[A/
C]GCAGGCCTGGACCAAGTCAAGGGGTCAAGTGCTAGTCAGTGCCGGGTGCAGGTGGGGCAAGTGGTCCTGCGGG
TACCATAGACTATCACGCCGGACAGCC	A/C	extended_map	0.131
0.001	0.163	0.013	18.7%	198	68.8%	154	65.5%	58
81.2%	80	NA	0	16.7%	66	22.5%	40	18.5%	92
	22.5%	40	NA	0	66.7%	78	71.1%	76
65.5%	58	81.2%	80
rs915750	AB_ASSAYS_ON_DEMAND	21	43.0788	36801936
forward LGD
GCGGTGTGTATTGTGCTAGGTTCTGACTCTCTTTGGTTGAGCAGGAGGCGGCCCTAGCGCCACAGGTGGAGATGG
CTGCCCACCTGCTGTGAAGGCACTT[A/
C]CGGTGTCCGCCATCTTGGGAGCAGCTCAGACCGGAAACCACAGGCTGGAGAACGCAACTGGGAATGGAAAGCA

GGAGTGGCTCTTTGTGTTGCTTTGGGC A/C 430 0.342 0.289
0.040 0.128 86.7% 196 7.7% 156 67.2% 58 43.8% 80
NA 0 87.9% 66 90.0% 40 84.4% 90
83.3% 42 NA 0 9.0% 78 6.4% 78 67.2% 58
43.8% 80
rs1787337 AB_ASSAYS_ON_DEMAND 21 46.0723 38076350
forward LGD
TTTCTTCCTAGTCTCGGGTATGTTTTTGTCAGCAACATGAAAATGGACTAATACACCTTGCCAGCCTGCAACCTG
AATACCTGGAATTCTGTAATCTCTT[A/
G]TTAGAGGGTATCAATTCCCTGCTTGAAGTCTTTGCTTTTGTCATGAATTGAATGTTCAAATTCATATGTTGAA
GCTCTAACCTCCAGTGTGGCTGTGTTT A/G 1,810 0.147 0.006
0.142 0.052 11.2% 196 60.9% 156 51.7% 58 33.8% 80
NA 0 12.1% 66 0.0% 40 15.6% 90
16.7% 42 NA 0 56.4% 78 65.4% 78 51.7% 58
33.8% 80
rs2000425 AB_ASSAYS_ON_DEMAND 21 47.16 38426880
forward MIT
CTGTTTTCAGGTTGTAACCCACGTATTCTGGTTCTGACCTGCTCTATTTTCTCTTTATCCTCCTGGAGCAGGAGT
GAAGTAGCAAGTATGTTGAGTCATA[A/
G]GACAGATTTCACTATTCCTTGAATGCTGACAGAACTCAGAGTCTTATGTCTCATGATTTTCCACTTGATTTCC
ATTTCTATGCTTTGGGTAATGAGGTTT A/G 952 0.209 0.000
0.262 0.061 98.6% 290 51.2% 248 50.0% 58 79.5% 78
100.0% 92 100.0% 66 100.0% 40 95.7% 92
97.6% 42 55.2% 96 47.4% 76 50.0% 76 50.0% 58
79.5% 78
CV11378195 APPLERA_RESEQUENCING 21 48.9817 39300467
forward LGD
GGATTTAAAATAACAAACTAAAAAAAAAAAACCAACAACAAAAAACACTCTATTAACTTCATTTCACAGATGAGA
AAACTGAGGCCCAGAGAAGTTAAGC[A/
T]TCTTGCCCAAGGTCACACAGCTGATTGGGACAGAGTTAGAGCTGGAGCTCACGTTGCCTGGTCCCCATACTCA
CAAGATGTTGACCCTGCAGGAAAGAAA A/T 611 0.175 0.055
0.438 0.005 1.1% 190 42.3% 142 70.4% 54 33.8% 80
NA 0 0.0% 60 2.6% 38 1.1% 92
5.0% 40 NA 0 51.4% 70 33.3% 72 70.4% 54
33.8% 80
rs388332 AB_ASSAYS_ON_DEMAND 21 51.2833 40040031
forward LGD
AAACCCACAGAACCAGGCAAGAGACCACCTAAAATTTTGTTCACCTAAAATTCTAGAGTTCTTTGAGCAAACCAA
ATGAGTGGTTGTATCATTTTAAATT[A/
C]ACAGGAATAGATAGGAAGTCTAGGTCATTAACATAATTTGTGCTCTCAGTTCATTTTTCAAGTGGGCTTCCTA
TTGCATTTTTCTTCTGATTCAGTTGAG A/C 1,911 0.098 0.021
0.270 0.019 38.1% 194 82.7% 156 94.8% 58 68.8% 80
NA 0 42.4% 66 25.0% 40 40.9% 88
30.0% 40 NA 0 82.1% 78 83.3% 78 94.8% 58
68.8% 80
rs726104 AB_ASSAYS_ON_DEMAND 21 52.5585 40483636

forward LGD
TACCAGTTCCGTAGCCTGAACACCCACAGAAGAACCTACATTTGGGAGTTTCTCTAGAGTCAGCAGCCATGTGGC
AGAGATGTGCCCCACAGCACTGACC[A/
G]TGTAATAAGATGGAAAGTAGGCAAATTGGTGACTCAAGAAAGAGGTGCCAAGAGTCCTGCATATCAAGGACAG
TTGCTCACAACTGTTGTGAAATTCCTT A/G 1,345 0.151 0.010
0.294 0.000 8.6% 198 57.1% 156 69.0% 58 58.8% 80
NA 0 4.5% 66 15.0% 40 8.7% 92
14.3% 42 NA 0 59.0% 78 55.1% 78 69.0% 58
58.8% 80
rs1467753 AB_ASSAYS_ON_DEMAND 21 54.8061 41269442
forward MIT
GTTATTTGAGTTTACTGTACAAATTAGAATTGTTCCTTCTCCCCATCTCCCACCCTCAATTGCCCTCTGTCCCTC
AGCAGTGCCACAAATGAAGATGTGC[A/
G]TCTGGCTTGCTGCCCACCATAACCCCTGCATTGTTTTCTTCTGATTCTCACAGTAGTCACTTGCAATTGTCTT
TCATCCTGTTGCATATCAGTTGTATGG A/G 1,539 0.128 0.045
0.043 0.032 95.1% 182 55.1% 156 79.3% 58 33.8% 80
NA 0 96.9% 64 92.9% 28 94.4% 90
100.0% 40 NA 0 55.1% 78 55.1% 78 79.3% 58
33.8% 80
rs766850 TSCAF 21 55.5099 41467213 reverse MIT
CTCTCTTCCTCAGGTTCCACCAGAAACATGTTTATACCCAGGGAAATTACAGAAGGGGTGCCAGGCTGCCCACCT
GCCTCACAGGTATGCCCTATTGTCC[A/
G]GGTAGTATCTGTTACCTTAACATACAATGAACCCCAGTGTCTCACCAAGGCTGGGCAAACAGGGTGACCCAGA
GGAGGGATCCATGACACACAGCAAGGG A/G 432 0.271 0.011
0.498 0.012 11.6% 310 81.3% 262 91.1% 56 91.2% 80
17.0% 112 10.6% 66 10.0% 40 6.5% 92
4.8% 42 78.6% 112 85.1% 74 81.6% 76 91.1% 56
91.2% 80
rs6517656 AB_ASSAYS_ON_DEMAND 21 55.6412 41504134
forward LGD
TATTTAAATTATCTGCTAATTTTCCTATCTATTAACCTGCTGAAATAGAGAGAGTAATATCTGAGAAATCTCAGG
CTGCTAATCACTAACTAGATGAATC[A/
G]CCCAGTTTTTCCCTTTAATGCAACATTTTACCTTATTGCAGCAATTAGCAAATGGCTTTCTGTAGGGTTATTG
CCCAGTGCATCAACCAGAGATTAAGAA A/G extended_map 0.271
0.000 0.402 0.024 12.1% 198 82.5% 154 84.5% 58
94.9% 78 NA 0 15.2% 66 7.5% 40 12.0% 92
7.1% 42 NA 0 79.5% 78 85.5% 76
84.5% 58 94.9% 78
rs369908 AB_ASSAYS_ON_DEMAND 21 56.2445 41687529
forward LGD
AAAGTTTTCAATCCAGTGCAAGCAGGAAGGAGTGGGGACAGAGGAGGGGGAGAGGAAAGTGGGAAGGAGGAGATC
AGAGGAGGTGCCCACAAGAGGGAGC[A/
G]GAGTGAGTCTGTTCAGGAGACACTAGAGAGGGACTCCCCTCAGTAGGGAACAAGGCATTTCTTGGAAACATGG
TGCATGGAGCCAGTCCATTCTAACCAT A/G 224 0.273 0.005
0.314 0.074 89.4% 198 19.5% 154 25.9% 58 50.0% 80
NA 0 93.9% 66 87.5% 40 87.0% 92

92.9%	42	NA	0	20.5%	78	18.4%	76	25.9%	58
	50.0%	80
rs225412	AB_ASSAYS_ON_DEMAND	21	60.0221	42537236
forward LGD
CAGTTTTATCCTCCTGGCCTGTCCCCTTTCCTTCACCCCCACTACCAACAGCAGATCCAGGCCACCATCACCCCA
CCTGGCTCACAGCAGGAGACTCTTC[G/
T]GCAGTTCTGGTCCTGTTATTCCCTCGGGGCTCCCCAAAGATCTCTAGATAAAATGCAAAACCCGTAACCAAGT
TGGCAAGCCCTTCCCCATGGGGACCTT	G/T	1,205	0.245	0.000
0.396	0.000	34.2%	196	99.4%	156	100.0%	58	100.0%	80
	NA	0	46.9%	64	30.0%	40	27.2%	92
47.5%	40	NA	0	100.0%	78	98.7%	78	100.0%	58
	100.0%	80
rs2839495	AB_ASSAYS_ON_DEMAND	21	60.7139	42691049
forward LGD
GGATGTGTGTGAGAAGGAAGCCCGGCCCAAAACACAGAAGGCGCATGCTGAGACCAGGGGGGTGAGGGAACGAGG
GACGAGGGGGATGCTCTCTGGTGTG[A/
T]CGCAACAGCGGAAAAGGACAGGGCCCTGCGGGTGGGACGAGCAGACTCCCACTGTCTCGAAGCACCTCAAGCC
CGAGCTTGCCCTCCTACGAGTGGCCGC	A/T	1,051	0.211	0.000
0.284	0.016	3.5%	198	56.4%	156	58.6%	58	41.2%	80
	NA	0	3.0%	66	7.5%	40	2.2%	92
0.0%	40	NA	0	57.7%	78	55.1%	78	58.6%	58
	41.2%	80
rs2839501	APPLERA_RESEQUENCING	21	60.7532	42699773
forward MIT
GTAATGCAGTCACCTTGTCATCTGGCAAGAGGTGATCGATGGACACAAACTCCTCCCGGAACTGCCCCTCCAGCG
AGCTCACTCTGAGGTTATCTGAACT[C/
T]ACATAGCTGCAAGCACATTGGAAAGACAGACCCGACGTGGTAACTTTACACTTTGAAGCATTCAACCGATGTG
CGAGTCACAATATTACAGGGATTGTAC	C/T	extended_map	0.195
0.025	0.421	0.021	93.3%	180	38.7%	150	20.7%	58
22.5%	80	NA	0	95.2%	62	96.4%	28	91.1%	90
	94.7%	38	NA	0	36.5%	74	40.8%	76
20.7%	58	22.5%	80
rs440431	AB_ASSAYS_ON_DEMAND	21	61.7746	42926848
forward LGD
CAGTAGTTTTTTGCTATCTCACTAGCCCATCAGTATTCAAGTATTTTTTTTTTTTTAAGTATTTTGTTCAAAAGTT
TCTGGCTATCTGCCAAAAGAAGGTT[C/
G]GTCCATATTGCTTAGTTCACCATTACTAGAAAGAGAAGCTTTATACTGTCATGCTCAGTAGAAATTTAAAAAT
AGCTCATCTTCTTCTGACACCAATACA	C/G	1,445	0.174	0.032
0.423	0.327	87.9%	198	32.5%	154	13.8%	58	95.0%	80
	NA	0	92.4%	66	87.5%	40	84.8%	92
95.2%	42	NA	0	28.2%	78	36.8%	76	13.8%	58
	95.0%	80
CV3004288	AB_ASSAYS_ON_DEMAND	21	63.6794	43662890
forward LGD
TTCCTGATCCGGGCATCTCGGCCCGGGGCCTGGCTGCTGGGCGGGCCCCAGGAGTGCCCCCATGGAGGGCCTTCT
GGGATGACATTGGCCTGTGGCCACT[G/

T]CTGCAGCCCCAGCCCAGCCTTCAGGTCTCTCCTGCTTCAGAAGCCCTTGGCCATCCCCAGGCACCTCCCGGAC
ATTGCCCAGAGCGGCGGCCCTAAGACG G/T 1,630 0.177 0.099
0.040 0.032 14.6% 198 71.8% 156 34.5% 58 51.2% 80
NA 0 15.2% 66 12.5% 40 15.2% 92
7.1% 42 NA 0 65.4% 78 78.2% 78 34.5% 58
51.2% 80
rs2838467 AB_ASSAYS_ON_DEMAND 21 64.8493 44292557
forward LGD
TGGCTTTTCTTTGTTGACTGTCCTCATACCTACAATAGCACATACCTGTTATTAGCTTGGAATTGAATTTCTCTG
AACAATAATAGTACCCTCCCTCTAG[A/
G]TGATCTGTTCTCATTAGTCACATCTGTTGCCTGTTTCATTTTTCTGAGTTTCTGTATTTGGGGTTCCAGGTCT
GATATTAGAAACTTTTAAAGGGGAAAA A/G extended_map 0.29
0.050 0.206 0.031 15.2% 198 88.8% 152 67.2% 58
72.5% 80 NA 0 9.1% 66 7.5% 40 22.8% 92
38.1% 42 NA 0 86.8% 76 90.8% 76
67.2% 58 72.5% 80
CV2977979 AB_ASSAYS_ON_DEMAND 21 64.9668 44314980
forward LGD
TGCACCTGGTTTTCCTCAGATTTCACCTCATGCACCCTTTCTCTGCTGACTTTGCTCCGCCTCCTTTCCCACGGG
CTCCACACAGCCAGTGAGGACACAC[A/
G]TGAGGAGATTTCCACCGGGGAAGCCTCTGCCGGAGACTCTGTACCCAAGGTTTTCACCAGGCTGCGCCGTAGG
CCCCCTCTGCCTGGCGTGCCTGAGAAG A/G 93 0.342 0.052
0.253 0.032 10.7% 196 89.1% 156 67.2% 58 72.5% 80
NA 0 7.6% 66 5.0% 40 15.6% 90
19.0% 42 NA 0 87.2% 78 91.0% 78 67.2% 58
72.5% 80
rs51336 TSCAF 21 66.5355 44893428 forward MIT
TGCTGGGAGGTGGGACATGGGGGGACACTTGGGCTCCAGCTGTCCCAGCGCTCAGGGAGTTCTACTCAGGGACAG
CTTGGGCATCCTGGCCTCCTGTGCA[C/
T]GCTCACAGATGCTCAGGGGCGCCCTCTGCTCCAGCCCCAGGCTTGCCGCTGGGATGCAGAACAGAGAACAGAC
ACACGGCCTCTGGAATTCCCTGTGCTG C/T 754 0.205 NA NA
NA 21.1% 128 84.6% 156 NA 0 NA 0
21.1% 128 NA 0 NA 0 NA 0 NA
0 84.6% 156 NA 0 NA 0 NA 0
NA 0
CV25622808 APPLERA_RESEQUENCING 21 66.9405 45090281
forward LGD
ACCTTCAGGTTGATGTGGTCATTCTCTGTCTTCACACCCTCCTGCAGAAGACACCAGAGACTGGCCTCAAAACTG
TGTCTCAAAATAACCGCGACTTGAA[A/
T]GGGCAAGTCTTTAGGTAATTGTTGGCTTTTTAAAGTCATCAAAACCAACCTAATTCTTAAAATTCTCCAGCAA
TTCAGAGTCACTCGTGATGGTTTTATT A/T 1,978 0.07 0.178
0.009 0.175 46.0% 198 83.1% 154 34.5% 58 35.0% 80
NA 0 34.8% 66 45.0% 40 54.3% 92
35.7% 42 NA 0 80.8% 78 85.5% 76 34.5% 58
35.0% 80
CV1466311 AB_ASSAYS_ON_DEMAND 21 67.3952 45311247

forward LGD
TCTTACCTCAGGGCCAGGCCTCCTCCGCCTTGATGTCTCCCCTGGAAACCCCAGGACCACATCCAAAGAGCAGAG
CTTTGGGAAAGGGGAAAGAGAGCAT[A/
G]GAGGGGTCAACTCAACCACAGGGTCCTCAGGGGCCCTCCCGGTCACGATCCTCATCGTGGGAGCAGCCCTGCC
CCACCCTCCACAGGCAGGTGACCTGGA A/G 1,102 0.171 0.027
0.127 0.023 26.8% 198 85.1% 154 69.0% 58 96.3% 80
NA 0 13.6% 66 30.0% 40 34.8% 92
35.7% 42 NA 0 80.8% 78 89.5% 76 69.0% 58
96.3% 80
CV16182874 APPLERA_RESEQUENCING 21 68.3032 45752514
forward LGD
CCACCGGGCATCTGCCGGCCGAATAACAGGCCACCTCCCCTCTCGTCCTCCAGGGCGCGGCCCTAAAACCCAGGC
TCCCCGCGCCACCCCCCGTCACCAC[G/
T]CCACCCTTGGCTGGAGGCAGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTT
CGTTAGGAGGTAAGCTCTTTTCTGGAT G/T 2,016 0.07 0.008
0.066 0.059 39.4% 198 6.4% 156 12.1% 58 27.5% 80
NA 0 40.9% 66 47.5% 40 34.8% 92
35.7% 42 NA 0 11.5% 78 1.3% 78 12.1% 58
27.5% 80
rs743351 AB_ASSAYS_ON_DEMAND 21 69.1056 46142497
forward LGD
GTGAGCCATCAGGTCAGATATGAACCAGACAGACCTGTGGCCCAGTGACAGGAATTCCAGGTGCACAGGCCAGGG
TTCTTATCGCAAGGAAATGACACAG[A/
G]GCCTGCCCCATCTGCCCTGATGCCGAGCAAAAGAGAGGCTCATGGAACGTGAGAGGAGAAGGGGCTGTGGAGA
AAATGTGGTCCTGCTCGCTCATGGTTA A/G 1,513 0.13 0.028
0.089 0.004 38.8% 196 89.0% 154 74.1% 58 93.8% 80
NA 0 28.8% 66 47.5% 40 42.2% 90
38.1% 42 NA 0 87.2% 78 90.8% 76 74.1% 58
93.8% 80
CV2666421 AB_ASSAYS_ON_DEMAND 22 2.3498 15943021
forward LGD
CTAGCTCAGTGCTGGAGCACAGGATGCGGGGGCTATTTGATACATATGTGTTGACTGAACAAAAGAATGCATGAA
TGAAGGAAAGAACGGTCAGCTCTGC[C/
T]TGGAAGGTAGTGGCAAGCTGAGACCAACCATAGCAATGGTTCCAGATGCTTGGGGTTAGCACCTCAAAACCCA
GATGACTGATTTCCCCACAGAAATCAT C/T 319 0.228 0.194
0.017 0.093 92.4% 198 31.4% 156 82.8% 58 67.5% 80
NA 0 97.0% 66 92.5% 40 89.1% 92
100.0% 42 NA 0 28.2% 78 34.6% 78 82.8% 58
67.5% 80
CV2198219 AB_ASSAYS_ON_DEMAND 22 2.9483 16228268
forward LGD
ATGACACTGAATTCAGTAGTTGATATAAACAGATGAATGACACTGAATTCAGTAGTTGATATCATTAAGCCCCTA
CTTTGTGCTTAACATGGAACTTGGA[A/
G]ATTTACCAAAGAAGCTCTTACCTGGCCTCCTTTGCCTCAGAAGATTATCTGTTAATATTTCAGAACCAGCAAT
TTTATACCACTTCAGTTAAATCAAGTA A/G 1,087 0.171 0.001
0.245 0.036 68.9% 196 10.9% 156 12.1% 58 28.7% 80

NA 0 79.7% 64 72.5% 40 59.8% 92
83.3% 42 NA 0 6.4% 78 15.4% 78 12.1% 58
28.7% 80
rs7289980 APPLERA_RESEQUENCING 22 3.7882 16447322
forward LGD
TGACCCAACTGCATAAGTAACCAACCTGCATGCACCTAGCGGGCGAGGCACAGCTCCCACACCGTTGGCCTCTTG
CTCTTGTTGTGGAAGGCACTATTCT[A/
C]AAATGAGAGGTGCACAAATGGAGAGGCTGCCACTGAGGGCTGCTTGCAGAATGCCCCTGCCCATCAGCTCACT
GGCTCTTCTTTCTCCCCAGGAAACTCT A/C extended_map 0.144
0.002 0.226 0.001 44.9% 198 0.0% 156 0.0% 58
0.0% 80 NA 0 50.0% 66 42.5% 40 42.4% 92
50.0% 42 NA 0 0.0% 78 0.0% 78
0.0% 58 0.0% 80
rs1044497 AB_ASSAYS_ON_DEMAND 22 3.7914 16448146
forward LGD
CACCTAGTTTGAGACCAAGCACCCTTTCGAATCCCTGGATGGCTGAGGGGGCTGAGGCCGGCTCTGACTGGGCAG
CCCAGCCCCTCCCCCAGAGCCCAGG[C/
G]TCTTGCACACCCCTCCCTGTAACCAAGGAACACTCTGAAATAAAGGTGAATGGCTAAAATCTCATCTGTTCAT
CAGTGGGTACAGCAGATAGGCTGCAGT C/G 739 0.215 0.000
0.304 0.000 14.1% 198 77.3% 154 77.6% 58 76.2% 80
NA 0 9.1% 66 15.0% 40 17.4% 92
26.2% 42 NA 0 83.3% 78 71.1% 76 77.6% 58
76.2% 80
rs1076113 AB_ASSAYS_ON_DEMAND 22 4.9342 16742701
reverse MIT
CCTTCTTTCTGGTGTTTTTTTCAGTGTATTCTTGTTTTTGTAGATGAGGTCATTCTTAACATATACTTTTCGATT
CTCCTTTTTTCATTTAACCGTAGGC[A/
G]TTCCCATGTTGTTCCTGACTCTTTACAAGCACCTTTTGGAATGTGTGGGCATCAGGCTTCTCTTAGCTGTTGC
TCTAGTGTTGGATGTTCGAGTTGTTTC A/G 1,806 0.114 0.117
0.009 0.050 47.4% 304 92.4% 262 58.9% 56 73.1% 78
50.0% 110 48.5% 66 50.0% 38 42.2% 90
40.5% 42 92.0% 112 90.5% 74 94.7% 76 58.9% 56
73.1% 78
rs2016118 TSCAF 22 6.5968 17290370 reverse MIT
GGTCAGGGTCTTCCTGCTGTCTCTGAAGACCCCCTGGGGACACGTGCTTGTCCTCCTCTGCCCTATGTCCCCTTG
TCGCTCTTCCCTCCTCTGTTGTCCC[A/
G]GGTCGTGCCCATGTGTGCGATCATGTGCCCTTCAACAGACTATGCCCTGGGCATGATGAGGGGTGGGACTGGG
GGAGCACGAGGCAGGTCCTGGCTTTAA A/G 1,749 0.121 0.000
0.168 0.135 95.8% 330 58.8% 306 56.9% 58 95.0% 80
99.3% 136 93.8% 64 97.4% 38 91.3% 92
90.5% 42 56.6% 152 59.2% 76 62.8% 78 56.9% 58
95.0% 80
rs1009787 TSCAF 22 7.7188 17747338 reverse MIT
TGATGCAGTAATGGGGCCTGGATCCTCTTTATCAAAGGCCTCCTTATCCCCAGGAGCCCAGAGGAGGTCATCTCT
TGTAAGAACTTACGAATTTTATCCT[G/
T]CTGGTCTTTCTAAAAATCCTAGATGCTAACAACAGTGGATTTCAGGCTCTGCCCTTAGGAGACTTCTATGGGC

TCCCCCTTCTTCATCTGGAAGCCATGT G/T 940 0.176 0.116
0.048 0.097 41.1% 326 96.4% 308 67.2% 58 70.5% 78
47.7% 128 36.4% 66 30.0% 40 40.2% 92
31.0% 42 96.7% 152 98.7% 78 93.6% 78 67.2% 58
70.5% 78
rs5746770 AB_ASSAYS_ON_DEMAND 22 8.1395 17918666
forward LGD
TCACGGGACTTGAGAGTGGCAGAGTCAGGATCTAGGCGGGCAGTCAGCTCCAGTGGGGGTTCACAGCCCCTCGCT
ACTCTGCCGTTACCTTCATCCATGA[C/
G]AATGTGACCAGTCATCTCTGCAGCTGCAGGGGCCAGTAAAGTGCGAGACTCCTAATTCCAGTGCATATTTGCT
GAATGAGAGAATGAAAATGTGTACCCA C/G 427 0.21 0.013
0.164 0.013 98.5% 198 50.0% 154 63.8% 58 63.7% 80
NA 0 100.0% 66 100.0% 40 96.7% 92
100.0% 42 NA 0 48.7% 78 51.3% 76 63.8% 58
63.7% 80
rs1005873 AB_ASSAYS_ON_DEMAND 22 9.0136 18274629
forward MIT
CTGCCCGTGAGGTGCAGAGCAGGGCCGGGCCAGGCCAGGGCCCCTGTGCAGTGCTCCCTGGTGCGGATGCACGTG
CAGCTCTGCCTGGGGCCTCAGAGAA[A/
G]CCCAATGACCGCTGGGCTGCTGGAAGCTGGCTGTGGCCTTCTTTAAGCAGAACCACCATGAGCCCAGCTGCCA
GGAGAGGGGATCACTGGGACCCTGTCT A/G 1,552 0.083 0.004
0.089 0.006 55.5% 182 15.1% 152 20.7% 58 21.8% 78
NA 0 59.4% 64 46.4% 28 55.6% 90
57.5% 40 NA 0 14.5% 76 15.8% 76 20.7% 58
21.8% 78
rs165630 AB_ASSAYS_ON_DEMAND 22 11.1457 19142975
forward MIT
GGAGATTTCTCACATGCACCAAGGTAAGGTGGAGGGGTCCCTGGAAATCTAATGGTAGCTGAGTCTTGTGGGCCT
GAACCACTGTCCCTTGCTCTGCCCA[C/
G]AAATGGATTTGTGAGATCACAGCCTAAGTGACTGATGGAGCCAGGCGCATCCTACGGACCACAGCAGTCCACA
AAACTCTCTCTTGGGAAAACTGCCTCT C/G 1,921 0.051 0.028
0.190 0.030 71.0% 286 38.8% 250 19.6% 46 59.5% 74
73.7% 114 64.3% 56 65.8% 38 74.4% 78
84.2% 38 33.6% 110 50.0% 68 36.1% 72 19.6% 46
59.5% 74
rs2073446 APPLERA_RESEQUENCING 22 14.9565 20874632
forward MIT
GGTGTTTCTGTGCCCTCCAGATGGTGTTGCTCCTCCCCCTTCTATGACCACTTTTCAGCCATAACCTTGTCTGAG
GTCAAAGGAGGGGGTTGTGCAACCT[C/
T]CAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTCTGAGGATACGCGTGACAGATAAGAAGGGCTGGTGGGA
TCAGTCCTGGTGGTAGCTCAGGAAGCA C/T 1,890 0.046 0.061
0.244 0.027 59.0% 178 28.1% 146 5.4% 56 11.8% 76
NA 0 63.3% 60 46.4% 28 60.0% 90
57.9% 38 NA 0 19.4% 72 36.5% 74 5.4% 56
11.8% 76
rs738779 TSCAF 22 17.1212 22040766 forward MIT

TGAGAATTTGATGAAAGCTATGCACCCGAGAAGAACGCACATACAATACTGTAGGTGCAATTTCAAGTATTCATA
GGCTCCTCAGAATCCATGAATCCCA[A/
G]TGCGTGAATCCTGTGTTGCCCAGGCTGGTCTGGAATCCATGAATCCTTTCCTGAGAGTTGGTCTGTACTAGAA
AGCAAGGGTTTTCTGAGCACAGAATTT A/G 686 0.147 0.000
0.244 0.003 36.0% 314 89.2% 306 91.4% 58 93.6% 78
33.1% 130 37.1% 62 31.2% 32 41.1% 90
30.0% 30 92.3% 156 82.9% 76 89.2% 74 91.4% 58
93.6% 78
CV2447948 AB_ASSAYS_ON_DEMAND 22 17.7268 22319335
forward LGD
CCCATAGTCCTGATGAGCTCCCAGAGGAGGCCCGAGAGCGTGAAGCAGGTCTGCCACATCCACAACCTGAGGTCC
GTGACCACCTGTGCGAAAAGGAGGT[A/
G]GTGCTCAGGGAAACTGACATATTACTTCCCTGGGGAGCCAGGACCACTGCTGAGCTCTGACTGCCCCCTGGGC
TCCCCAAGGTTGGGACAGCATGGAGTT A/G 1,257 0.14 0.001
0.240 0.029 73.2% 198 20.1% 154 16.1% 56 38.2% 76
NA 0 77.3% 66 65.0% 40 73.9% 92
78.6% 42 NA 0 19.7% 76 20.5% 78 16.1% 56
38.2% 76
rs140335 TSCAF 22 18.9805 23237977 forward MIT
ACTGGTCATCCAGCTACCAGGCCTGGGCAGAACTTTGGGGCCACCCCCTAAAGCAGCCCCCTCTGCTGGCTCTGG
GTAAGACACTTGGCAAGCTCCATCT[C/
T]CCCACTGGGGTCCCTAGAGGAACCCGAAGCACTAGGGCATCTGGCTTCTGGGCCAGGGCAGACAAAGTTGTGG
CTGTGGACTCAGATGGCTCCTCGCCTT C/T 1,522 0.139 0.001
0.167 0.003 8.8% 328 54.9% 306 51.7% 58 61.3% 80
9.2% 130 7.6% 66 12.5% 40 7.6% 92
9.5% 42 56.7% 150 59.0% 78 47.4% 78 51.7% 58
61.3% 80
rs6519520 AB_ASSAYS_ON_DEMAND 22 19.0567 23316449
forward LGD
GCACTGCCTCTGGGCCCTTCTCTACCCACCCAGTAGTATTGTTCAAGCCCAGGAGGGAAAAAGGCCAGCTCAGGG
TTAATGTTACCTCAGCAAGTAGCTG[A/
G]GTGGCACTGAGCCTCCTGGTAGCCACTGTAAAGAAGGACACAGAATGGTTTGGGGGCATTCGCTAGGAGGAAG
GAAGCAGATGGATACTCTATGGAGACA A/G extended_map 0.171
0.104 0.034 0.001 82.8% 198 25.7% 152 63.8% 58
22.5% 80 NA 0 80.3% 66 77.5% 40 87.0% 92
64.3% 42 NA 0 27.6% 76 23.7% 76
63.8% 58 22.5% 80
rs2006092 AB_ASSAYS_ON_DEMAND 22 19.0604 23320222
forward MIT
GAGCAGCTGGACAGGCCCAGTGAGGATGCAGGGGTAGCTGCCCAGGGCTAGACTCTGGCTGCTCTGGTGGCAGTT
GCTTAGCTCAGGCTTGGGCACGTCC[A/
G]CCTGGCGCATCTGAAACATTAGCCAGCAGGGCGCAGACTCGTCAGTGAGAGCATTCCTGAGCCCAGCATCCAA
GAAGCGAGGGAGGTCGGGAAGGTGCTG A/G extended_map 0.159
0.054 0.063 0.002 87.4% 198 34.4% 154 62.1% 58
38.8% 80 NA 0 86.4% 66 82.5% 40 90.2% 92
88.1% 42 NA 0 32.9% 76 35.9% 78

62.1%	58	38.8%	80
rs997873	AB_ASSAYS_ON_DEMAND	22	22.4506	24202836
reverse	MIT
CACCATGCTTCAAAAGATATGTAGCAGGGATACCTAGTTTAAAAGTTTTTAATGTGTATTTCATTTTGCTTTCCT
GAGTACAGATTTTTATCTCTACCAC[C/
G]CTAGGCATCCATTAGTCTGGGTGAGATTAGAATTTATTACAGAAAATGCAAAGAGAAAGACAAGTGATGTTAA
GCTTTAGACATCAAAATTAGATTATGT	C/G	752	0.177	0.018
0.170	0.000	34.0%	294	92.0%	250	82.1%	56	93.6%	78
	28.2%	110	31.7%	60	32.4%	34	43.3%	90
42.5%	40	93.1%	102	91.7%	72	90.8%	76	82.1%	56
	93.6%	78
rs715534	AB_ASSAYS_ON_DEMAND	22	22.5749	24420731
forward	LGD
AGGCACTTGGAGAAGGAGTCTGGATGGGAGAAAGATGTCAAGGCTTCAGAAGGTGTTTTGCATCCCTGGACTCAC
AGTGATTGACTGAGCCGCTCATATG[C/
T]GCTATCTTTGAGTGCTGGTCACTACTTCTATTTCAGATGACTTTGTCAGATACTTAAGAGCGTCTGTGTAGGA
AGATGCATCCATGTTGCAAATCTGTGG	C/T	257	0.273	0.001
0.460	0.003	27.8%	198	98.1%	156	100.0%	58	96.3%	80
	NA	0	27.3%	66	30.0%	40	27.2%	92
12.5%	40	NA	0	98.7%	78	97.4%	78	100.0%	58
	96.3%	80
rs973523	TSCAF	22	23.4274	24617213	forward	MIT
TAATGCAATCTTATCTATATATAATATATTTTTATCTAGCCTTTCTAGATGAATGTACAGATAGTTTGGTCTCTC
TGCTTGTCTTCTGTGGCCTCCAACT[A/
G]TCCCTCGTCTACATTCTAACCAGTTCACACTCTAACAAATGGTGTGCTAGTAAATGGCTCCCTGGAAAAAAAC
AAAAAGCCCTGATTTGTAGCACTTGCC	A/G	1,151	0.173	0.032
0.098	0.004	7.7%	326	58.9%	302	37.5%	56	51.3%	76
	7.4%	136	3.1%	64	5.0%	40	12.8%	86
2.5%	40	62.2%	156	54.2%	72	56.8%	74	37.5%	56
	51.3%	76
rs969539	AB_ASSAYS_ON_DEMAND	22	24.38	24942341
forward	LGD
CATGCGCGTGCACACGCGTGCACACACACACACACACACACACACACACACACACTCCCTAGCACAGGACTGGATGA
CCAGAATGCTTATTGGTTGATTTCT[A/
G]CTTGGACCCAAGTCAAGAAAGTTTCATTTCTAAAGATTTATTGTAGGTGAGAATCAATTCGCCAATGGTTTTA
TCTAAGCCAGTCTTTTAGAAAGGGCCT	A/G	1,525	0.192	0.139
0.018	0.016	99.5%	196	57.1%	156	94.8%	58	71.8%	78
	NA	0	100.0%	66	100.0%	40	98.9%	90
100.0%	42	NA	0	62.8%	78	51.3%	78	94.8%	58
	71.8%	78
rs738651	AB_ASSAYS_ON_DEMAND	22	24.38	24942459
forward	MIT
AAAGTTTCATTTCTAAAGATTTATTGTAGGTGAGAATCAATTCGCCAATGGTTTTATCTAAGCCAGTCTTTTAGA
AAGGGCCTTATTGCAGGAAACCAGA[A/
G]ACAAATGAAAAGGCAATCTGTGTGCATGTTGTCAACAAGCTTGTGGGAGCTCCTAATACTATTTCCCTGTCAA
GGTATCAATAGAAGAGAAGACAGTTTC	A/G	extended_map	0.071	NA

NA NA 48.5% 130 12.3% 154 NA 0 NA
0 48.5% 130 NA 0 NA 0 NA 0
NA 0 12.3% 154 NA 0 NA 0 NA
0 NA 0
rs4822824 AB_ASSAYS_ON_DEMAND 22 27.7644 25662440
forward LGD
TCCCCACAAAGATAAGTATGTCATCTGCCTCCTTCAACAGCCATATCCCTGAGGCCTAGAAGAGTTGACACTTGA
TTAACCATATGGTGAATTAATGAAT[A/
G]GATGAGGTTTCTGGCTCTCTTGGCCTCAGGCTTCCCCTCTACAAACTCAGAGAGGGAGACAGCATCCTAAAAC
GTGTGTGTCCCCACGCTTTCCCCCCTG A/G 312 0.255 0.003
0.361 0.023 99.5% 196 46.8% 154 39.7% 58 65.0% 80
NA 0 100.0% 66 100.0% 40 98.9% 90
97.6% 42 NA 0 47.4% 78 46.1% 76 39.7% 58
65.0% 80
rs742002 TSCAF 22 28.228 25759640 forward MIT
TGAAGCACTTGCTTCTGAAAAGCACTTGCTTTTTAGTTCACTCATCTGTAAAATGGGTTACCAGCCTCTTAAAGT
TGTTGAGAAGATTAAATGAGATATG[C/
T]GTTGGTCTCCTAGAATAACGCTGGCATAGGGTTAGCATTCTATAAATGTTGCCATGATTATTATTACAGATGA
TAGATTTGGGGACAAAATAGAAGACAG C/T extended_map 0.075 NA
NA NA 2.9% 138 28.6% 140 NA 0 NA
0 2.9% 138 NA 0 NA 0 NA 0
NA 0 28.6% 140 NA 0 NA 0 NA
0 NA 0
rs730826 TSCAF 22 28.5823 25833931 reverse MIT
AGCCACTGGGAGGCTGGAGCGAGAGATGGAAACTCCTTCTCTGATGGTTTGGCACAAAATCCTGCTACATCAGCT
GGTGACAAGTGGCATAATCAATGCC[G/
T]CCCTCTCTCAGGAAGTCTGCGTGTGAGATGCACACTGAGACGTGGTCACCACAGCTATTGCAACATCCCAGTG
GGATGAGTCACTGATTCAGTCCCCTGA G/T 1,240 0.165 0.155
0.004 0.025 99.0% 314 60.7% 290 98.1% 54 78.4% 74
100.0% 128 100.0% 60 100.0% 36 96.7% 90
100.0% 36 58.4% 154 68.6% 70 57.6% 66 98.1% 54
78.4% 74
rs760606 TSCAF 22 29.0836 25939052 forward MIT
ACATTGCTATTTTGGTCAACTGCACTATCTCATTAGGTCATGATGGGAGTGCAGTCTGCTGGTGTTTTGGGGGAC
CTGCTCCCATTTTCTTACTTCCCCC[A/
C]TCAAGATCCCAGGGAGTCTGCAGCACCTGCTGCTGTCTATGTACCCAACACCATCTCACTGGCCCCCAGGCAG
GCCACCTGTTCTATGCACAATCTGGGT A/C 1,383 0.135 0.000
0.207 0.051 84.8% 310 35.5% 256 32.8% 58 62.5% 72
86.5% 126 83.9% 62 90.0% 40 80.5% 82
95.0% 40 35.7% 126 37.9% 66 32.8% 64 32.8% 58
62.5% 72
rs558177 AB_ASSAYS_ON_DEMAND 22 29.3853 26002301
reverse MIT
TGAAACATGAGTTTGTTGTATATCAGTCAGGAGAGAGCAGGTTACACTGCAGTAACAAGCAAGCCTCAGATCTCA
GTGCTTATGCTGGATATTCATCACA[A/
G]GTTGGCAAGAAGATCTCTCATCACAGTTATTTGGTTACCCAAGCTAATGGACTAGCACCCTCTTGAAAGTCAC

TGCTCAAAGGGCCTGATGGAAAACTGA A/G extended_map 0.137
0.001 0.250 0.016 56.1% 196 6.3% 142 3.4% 58
0.0% 80 NA 0 51.5% 66 57.5% 40 58.9% 90
61.9% 42 NA 0 10.0% 70 2.8% 72
3.4% 58 0.0% 80
rs2014274 TSCAF 22 32.2447 26481342 forward MIT
AGCCCGAGGCAGGCCCAGGGGACTAGCCACTCCTTGGCCCAGCCCTATGCCTGTGTCCCCTGCCCCTTCTCTGCC
CTCCCATCAATGACAACTTCCATCA[A/
G]TAGTGTCACCGTGGCAATCGAGAAAAGGAAAAGGGAAAGCAGACCACTGTCTCTATGCGAGTCGGCTCCAGGG
CGTGACCGTGAACATGACCTGCAGGCT A/G 1,734 0.126 0.114
0.014 0.071 60.3% 302 11.1% 252 46.4% 56 37.5% 80
61.4% 114 59.7% 62 57.9% 38 60.2% 88
57.1% 42 10.2% 108 9.5% 74 14.3% 70 46.4% 56
37.5% 80
rs1970981 TSCAF 22 32.3633 26532225 forward MIT
TGCCCTTCTCACCTTCTCCCATCACAGGCCCTGGCAGGGGTTGTGCCCATGGCTGGAGGGCTTTTTGCTCAGTGA
AGGCACAGCCACACCTCAGCTCAGC[C/
T]GCCACATCCTCAGGGAAATGCCCCCCGCCGCCCCCGGCAACTCCTACCAGATAATCCCGGCACTGGAATGCTC
TCTTACCCCCAAGGTCTGGGTAGCGCA C/T extended_map 0.063 NA
NA NA 23.8% 126 0.0% 128 NA 0 NA
0 23.8% 126 NA 0 NA 0 NA 0
NA 0 0.0% 128 NA 0 NA 0 NA
0 NA 0
rs469991 AB_ASSAYS_ON_DEMAND 22 33.3024 27632413
reverse MIT
ATTTGGCTCACTGGCTGGATTTAGAAAAATATATTCCTCATTCATTTGGGGGAAGCCGCAGTAAGGCCTGTCAAT
AACCAGAAATGTCTAAACCAGCCTA[C/
G]CACTCTATTGCCTAATCNTAAAGGACCATGTTCAAGAGAGCACACTCACTATCTCCCTTCTGAAACCCAGGGC
AGTCAACAGATGGAGCCCAAACTGAGG C/G 2,101 0.045 0.013
0.136 0.104 40.1% 304 70.6% 262 82.8% 58 32.5% 80
44.5% 110 33.9% 62 27.5% 40 44.6% 92
28.6% 42 71.7% 106 66.7% 78 73.1% 78 82.8% 58
32.5% 80
rs132277 AB_ASSAYS_ON_DEMAND 22 33.4945 27857505
forward MIT
CTGTAAAGCCCTTCTCTTTTGACAGCTTTACCTCATCGGGTGGCTTCCCTGCAGAGTGGCCTGAGTGGTTCGTGT
GCTTTGTCTCATGTGCCATCACACA[G/
T]TCCCGTGATACAGGAGCAGATGGTGCTCTCTCCAGCCTTGAAACTGAGAGAAGCAAGAGGCCCGCGAGTGAAG
TGCGGCCCCTGCCATCACTTGGCCCTG G/T 506 0.285 0.000
0.357 0.000 97.1% 310 34.2% 260 34.2% 38 35.0% 60
99.3% 136 96.6% 58 100.0% 36 92.5% 80
97.6% 42 31.2% 144 34.4% 64 42.3% 52 34.2% 38
35.0% 60
rs132282 AB_ASSAYS_ON_DEMAND 22 33.5041 27868718
forward LGD
CTGAGCGGAGAGAGGGGCCACTCTTCGACATAAGGAATGTAAAAGGAGCCAGGTGTGAGAGGAAACCTGATGAGT

TCTTTTGGGCTAAGTCCACTGCAGT[C/
T]GCTGTGGGACACTGAGGCAGAGCTGTCCGGCAGGCATTGGACAGACAGCCTGAGCCCCCCACAAGGAGCACAG
GGCTCTGCACAACCCAAGGAAACATGG C/T extended_map 0.263
0.001 0.385 0.002 5.1% 198 68.6% 156 73.2% 56
63.7% 80 NA 0 4.5% 66 0.0% 40 7.6% 92
2.4% 42 NA 0 69.2% 78 67.9% 78
73.2% 56 63.7% 80
rs909796 AB_ASSAYS_ON_DEMAND 22 33.595 27975295
forward MIT
GCCAGACTCCTGGAGTGCAAGGAACCATGGGGAATCCAATCACAGCTCAGGACAACAGGAGGATTATAGGTAATG
GATCCAGACTCTAGTCAGCCTTCAG[C/
T]TCTAGAGAAATCATGGGTAACAGAGTCAGGCCCGCAGGACAATAGGTCATGGAGCAAGACTCCAGAAGGGCAG
GGGACTGTGGGTGACAGAGCTAGGCTC C/T 1,662 0.138 0.121
0.007 0.144 4.8% 314 46.0% 278 8.9% 56 6.8% 74
3.0% 134 3.2% 62 12.5% 32 5.8% 86
4.8% 42 47.9% 140 40.8% 76 48.4% 62 8.9% 56
6.8% 74
rs2015166 AB_ASSAYS_ON_DEMAND 22 34.5204 29168673
reverse MIT
CAGCAGAGTGACTCACAGGCTATGAGGAAAGAAGTCTCCTCTTGCTTGTATCTTCAGGATGCCAAGACCTGCAGC
CCAGGCCTGGGGTGGTGGTTATCCC[A/
G]GAGCGGCCTTACCAGGTGCACAGCTGGCCAAGGGAGGCTTGGTCATGGGCAGAGAGGGCAGGAGGAAGGCCCT
TGCTCCACCACCCCCTCTCCCAAGGGA A/G 2,027 0.101 0.000
0.134 0.038 7.9% 330 44.8% 306 44.6% 56 22.5% 80
8.8% 136 9.7% 62 5.0% 40 6.5% 92
2.4% 42 45.5% 154 44.7% 76 43.4% 76 44.6% 56
22.5% 80
rs714909 TSCAF 22 34.7083 30065621 forward MIT
GCTGCATGCTGCCGGCGATGCCATTGCTGTTGGCTGCCAAGGCTGCCCCGTTGGTCATGTCCAAAGGGAAGCCCA
AGTCCGAGGTCCCAGGGGGGCGAAA[A/
G]AGCATTATATCGGCGCGGGCAGGGGGTACCAGGATCTGTACGTTGGACTGTTTGATGACTTCCTGGCAGATCT
CGATAACCGACCTCATCAGCAGGAACT A/G 2,135 0.101 NA NA
NA 100.0% 132 75.4% 134 NA 0 NA 0
100.0% 132 NA 0 NA 0 NA 0 NA
0 75.4% 134 NA 0 NA 0 NA 0
NA 0
CV2532612 AB_ASSAYS_ON_DEMAND 22 34.7678 30349534
forward LGD
GGGGTTTCCACCACAGGAAAGATGAAATAAGAGGGGCTTAGGTGGCAGTTCTAAAACAGGAACCCAAACTTGCGC
GGAGTGACCGGCCCTGTGAATAGGA[A/
G]ACAATGGCTGATAGGACCGTATAGGGGGTAGGGGAACACCTTTGTCAGGACATGCTGTTTTGGGGATCCATAC
CAGAGCAGTAAGGCAGTGTCCCCACCC A/G 1,344 0.219 0.133
0.040 0.169 9.6% 198 70.8% 154 27.6% 58 22.5% 80
NA 0 10.6% 66 10.0% 40 8.7% 92
2.4% 42 NA 0 70.5% 78 71.1% 76 27.6% 58
22.5% 80

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rs1013603	TSCAF	22	37.4302	31977008	reverse	MIT
CATGGCAATATTATACATTATTATGTTCCCAAGCACTTTACCAGCCAATGTTGCAAGCTATCCAGAAAAGAGATT
AATTATCCCCATTTTACAGATGAGA[A/
G]AAGTAAAGCCTAGAAGGTTAAAATGGCTTGCCCAGGATTACAGTGAATTAGTGGCAGAGCGGGAGGTTTAAGT
TTCACACTCCTGGTGCCCATTTCTCTC	A/G	124	0.321	0.018
0.300	0.043	7.0%	186	80.6%	216	67.6%	34	58.3%	60
	0.0%	30	3.7%	54	11.5%	26	10.5%	76
3.6%	28	78.7%	94	80.6%	62	83.3%	60	67.6%	34
	58.3%	60
rs874814	AB_ASSAYS_ON_DEMAND	22	39.0446	33310954
forward MIT
AGTGATCTTTGAATTCATCAGCTAGATTGGCAATGTCTGCCTGGCAGGTCTTGCTCATGTACTTCTTCATCCTGA
GGTTGTAATGGAACACGGAAGTGGT[G/
T]GTCCCAATTTCTAAGCCCATGTTGCAGACTGTCACCATGCCAGTGCAGGAGATGGAGTCTACAACAGGCCCGT
GGTATTCCACGATTGCACCTGTGCCAC	G/T	2,086	0.073	0.018
0.207	0.009	24.3%	300	62.3%	252	77.6%	58	51.2%	80
	19.4%	108	16.7%	66	36.8%	38	30.7%	88
23.8%	42	65.1%	106	58.1%	74	62.5%	72	77.6%	58
	51.2%	80
rs714029	AB_ASSAYS_ON_DEMAND	22	39.06	33409186
forward MIT
CATGGAAGAGAAAACTAAACATTTGGGAAAACTGTTGGCCTCATGCAGCATATGTCTGCATTTTCTCTACCCTCA
TCATTAAAAGAGATTACTCCTACTT[A/
C]GAGGAAAGTGAGAGGATTTCTGAGAGAACTCCACTGAGATGTTGGATGTGAGTCCAGGAAGGGAACTGACATC
TTTCTCTCCAGTTGGGACACTTAGCTG	A/C	extended_map	0.136	NA
	NA	NA	19.7%	132	71.3%	136	NA	0	NA
	0	19.7%	132	NA	0	NA	0	NA	0
	NA	0	71.3%	136	NA	0	NA	0	NA
	0	NA	0
rs763926	AB_ASSAYS_ON_DEMAND	22	39.06	33664590
forward MIT
ATGACATCTAGAAGGTAGGAACTGAGGAAAAGGAACTAGGCAGCTTGAAGAATGGGGAGTGTAGTTATTCTATCT
CTGCTCCTTGTCCAGCAGAGGGTGT[A/
C]ACAGATGATGGCAAAGAGTCATTTATTCAACTGACCTGTGAGCACCCATTAACTCATGCACTTTTCCTACACC
ATCTTGTAGAATCTAACTCCAAGACCC	A/C	450	0.315	0.002
0.429	0.024	1.0%	292	63.8%	254	69.0%	42	45.5%	44
	0.0%	136	2.0%	50	0.0%	36	2.9%	70
0.0%	32	63.0%	154	64.8%	54	65.2%	46	69.0%	42
	45.5%	44
rs2010002	TSCAF	22	39.1364	33744342	forward MIT
GTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCTGCCTCTGCGTCCCAAAATGT
TGGGATTATAGGCGTAAGCTACTGC[A/
G]CCCGGCCCTTGACACAGTATATGTGTCTCTCTGTGTCCCCTCCTCTTATAAGGACACCAGTCATTGAATTTAG
GATCTACCCTTCCCCCACCAAGGGAGG	A/G	extended_map	0.163	NA
	NA	NA	100.0%	134	63.6%	154	NA	0	NA
	0	100.0%	134	NA	0	NA	0	NA	0
```

NA 0 63.6% 154 NA 0 NA 0 NA
0 NA 0
rs362169 TSCAF 22 39.2592 33792405 reverse MIT
CTCAAACCAGGGCTGCCTCTCCCAGTTCCCATAGCAGAGCAGCTGTCTTTGATTTCAGGTAGTTCAGGGGAGGAG
GAGGGCTACGGAAAGGAGGGAGAAG[A/
T]GAGGGAGGAGGAGAGGAGAAAGAAGTGAGGAACAGGGAAGGAAAAGGACCCTCTCTCCAGAGGCGCCTGACCC
AGGGTACCTCTCCCTTTCTTGTGGGGT A/T 1,958 0.144 0.001
0.150 0.013 0.3% 326 32.4% 278 29.3% 58 20.0% 80
0.8% 132 0.0% 66 0.0% 40 0.0% 88
4.8% 42 30.6% 124 38.2% 76 29.5% 78 29.3% 58
20.0% 80
rs134443 AB_ASSAYS_ON_DEMAND 22 39.5855 33920082
forward LGD
GAACAGTGTCTGGCACATATTAAGTGCTCCGAGAATGAAAGAATAAATGAAATGCTTAGTATGTTGCCTGGGCCA
TCATTGACACTCAGTAAAACAAGTC[C/
T]CTTTCTCTCCCTGTTGCCACAGCCAGAAGCTTTGCCTGGCTGTGGTCAGGCTGGACAGGGCTTTGATCTCCCC
AACATAAACTGGCCTAATTTGAGATGG C/T extended_map 0.228
0.002 0.264 0.025 7.6% 198 68.6% 156 63.8% 58
50.0% 80 NA 0 6.1% 66 15.0% 40 5.4% 92
9.5% 42 NA 0 69.2% 78 67.9% 78
63.8% 58 50.0% 80
rs713969 TSCAF 22 39.5944 33923547 forward MIT
GCAGAAAGCAATGAGAGTCTCGGCCTTGGAGGCATGCCAGCCAAGGCCCGAGCAGCACCTAACAGGGATCTGAGA
GAGAGCTGAGTGTCAGAGGAGGTTC[A/
C]AAAAGGATGACTTTAACTACAGTGATCCTACATTGCAGTTCACCCAACAGTCCCTGTTATGCTTGTTGTCCCC
ATGTAGTTGTCATTACTGCTATTTCCT A/C 876 0.235 0.004
0.255 0.028 7.7% 324 69.5% 282 62.5% 56 50.0% 78
5.3% 132 7.8% 64 19.4% 36 6.5% 92
14.3% 42 69.4% 134 68.9% 74 70.3% 74 62.5% 56
50.0% 78
rs739200 TSCAF 22 40.8732 34704150 forward MIT_and_LGD

ATGGGCCAGAGGAAGTGGAAGCAGCTCCTGCCATGTGCCTGGCTGATCTGGGAGAAGATACAGAGTCTAATGAGA
AACTGAATTCAGCAAAAAAGGAACG[A/
T]GTGATGTTTAAGCCTCATTAGGGCTATAGAACCAGCGTTCTGACAAAAAAATACTCGCTATTGACTTTGACCT
CACTTCCCTACCTCCCTCTGTTCGTGG A/T 1,154 0.285 0.033
0.608 0.002 84.3% 332 11.6% 284 0.0% 58 7.5% 80
82.8% 134 87.9% 66 80.0% 40 85.9% 92
83.3% 42 7.8% 128 16.7% 78 12.8% 78 0.0% 58
7.5% 80
rs735853 AB_ASSAYS_ON_DEMAND 22 42.0341 34951028
forward MIT
AAGGCACAAAAGTAAGTGTAAAATGCCATCCTCTGTTGCAACTCCTATAAAACCGGTGAAACCAAGACAGGTAAA
CAGGTGTGCCTGTTCACACAGAGTA[C/
G]AAAGACAGGCACCCTCTTTCTACCACATGGCAGAAAATTCATATACAATACTGACTACTTATGCTTACAAAAA
GAGCCCCATGAAGGCCTGGCACGGTGG C/G 1,861 0.183 NA NA

NA 1.7% 120 46.9% 130 NA 0 NA 0
1.7% 120 NA 0 NA 0 NA 0 NA
0 46.9% 130 NA 0 NA 0 NA 0
NA 0
rs875726 TSCAF 22 42.0413 34963782 forward MIT
TGGTCACAATCATGGCACTTAGGATGGCTCTCAGCAGAAACAACATCTGAGACAACCAGATTGAAGGGCAACACC
CCTCTGAGAAGCAGAAAACCTCATA[A/
G]AGGAATCGTTTCAATTTCCAAAGTAAGATTCACTGCTTCAAATATTTTTAAAAGTCAAATGATGTGTTAAATG
GGAAGAAAAGGAAATAAAACGCTACAC A/G extended_map 0.185 NA
NA NA 89.4% 104 32.4% 108 NA 0 NA
0 89.4% 104 NA 0 NA 0 NA 0
NA 0 32.4% 108 NA 0 NA 0 NA
0 NA 0
rs932470 TSCAF 22 42.3687 35379533 forward MIT
AGAAGCTCTATTATTTAACAGAAAGGGTCTTCAACATATGCTGTTAAGATCCTTAGAAGGCCTTTGTCTGCTTGA
AAAGGTCTATGAGGTACCACCTTAA[A/
G]TCTTTCTAAGGTCTTAATAAAAGGCTTTATAGTTATGTCCTTGGATTCATCTTTAAACTATTTTCCTATTAAT
GACCCTGGCTTTAATCTTTGCCTGGAA A/G extended_map 0.174
0.143 0.021 0.005 73.6% 284 15.1% 252 57.4% 54
21.1% 76 69.2% 104 78.3% 60 67.6% 34 77.9% 86
66.7% 24 16.1% 112 11.8% 68 16.7% 72
57.4% 54 21.1% 76
CV343265 AB_ASSAYS_ON_DEMAND 22 42.8638 35434457
forward LGD
CTGCATTTCCTCATCTGTATGACAGGGGCTGTGAGGAGCCTGCAGGCTCCAGTGACAAACTAGAGGATCGTGTCC
TAAGCCCCCAAATTTGACCCTCACA[A/
G]GATCCCAAATAAAGGACACAGAGAGGACACATTCCTGCGAATGACTTCCCTGAGGAGGGAACAGAGAGGGGAA
ACTGAAGGAGGGTAGGGCAACCGAGAG A/G extended_map 0.153
0.087 0.034 0.003 18.2% 198 72.4% 156 37.5% 56
78.7% 80 NA 0 21.2% 66 25.0% 40 13.0% 92
11.9% 42 NA 0 70.5% 78 74.4% 78
37.5% 56 78.7% 80
rs25095 TSCAF 22 44.2858 35677067 forward MIT
GGAGGGGGCAAGCCCCAGAGGCTGCAGCTGTCCTGGCCTTGCCATTGCACAGGAGGTGCGAATACGTTAGGCTGG
CTGGCAGATTCAGCGTTGGGGAAAC[A/
G]ATTGCAATAGAAAGTGAGGCTGAGTATCATTACACTAAGTCACCCGCTTGCCGTTCGAGGACTGCAGAGTCCA
AATGGGAGTTGCAGGAACTGGGCTCTG A/G 1,616 0.168 0.151
0.653 0.004 92.1% 328 41.5% 294 3.4% 58 48.7% 80
95.4% 130 89.4% 66 92.5% 40 89.1% 92
88.1% 42 40.6% 138 41.0% 78 43.6% 78 3.4% 58
48.7% 80
rs64547 AB_ASSAYS_ON_DEMAND 22 45.2533 35835543 forward MIT

GGGGCCCGAGACTCCTGTATAAAGACTGTCTCAAATGTCCCTTATCCTCCACCAAGGGATTTGGTGGGTTTTGGC
TGGCTTGTTTACAGCATCCTCCTAT[G/
T]CTACATTTGTTGAAGACTTACTGCCTGGGCCAGGTCTCATCTCTCTAGGGGCTTTTGGTCCCCAAAGGGTGTT

TATATCCATTACTTCAACTAGTCCTAG G/T 2,126 0.144 0.036
0.066 0.074 6.5% 306 51.2% 260 28.6% 56 20.0% 80
3.7% 108 6.1% 66 5.0% 40 10.9% 92
4.8% 42 49.1% 108 50.0% 78 55.4% 74 28.6% 56
20.0% 80
rs133710 AB_ASSAYS_ON_DEMAND 22 45.5467 36070235
reverse MIT
CGTCTAGATTGGTGGCTTATTAATAAGAATAATGTGTGAAAATGGCCTCGCACAGTGCCTGGCCCTGAGCGAGCC
CCTGACACATGGTTGCTACTTGATA[A/
G]AGGTGACCAAGTGAAGAATAAGCTGGGGGAGGTGGACACATAGAGAATGAATAATGACATGATGTGATGTGTG
CTGTCACTGAAGCCTTGCAGAGTGTTC A/G extended_map 0.163 NA
NA NA 97.8% 136 55.3% 152 NA 0 NA
0 97.8% 136 NA 0 NA 0 NA 0
NA 0 55.3% 152 NA 0 NA 0 NA
0 NA 0
rs4821667 AB_ASSAYS_ON_DEMAND 22 45.5503 36073120
forward LGD
TGCGGGAGCCACAGCAGGGGGAGCGGAGTTAGCCTCAGCTGGCTCAGCGGCTACGAGGTCAGCCCGGCAGCCTGC
ATTATTAAACCATCTATCTGGCTCC[A/
C]TCCAGGGAGATGCTGGGGGTGGGGGCAGGCTGCTGCCTGGGTCCGGAACTGGGGCAGCCGGCAGCTCCTGGGA
GCTGGAGGTCACCGGCCTCATGGCTGG A/C 63 0.373 0.034
0.287 0.001 2.6% 196 77.3% 154 56.9% 58 75.0% 80
NA 0 0.0% 66 5.0% 40 3.3% 90
7.1% 42 NA 0 76.9% 78 77.6% 76 56.9% 58
75.0% 80
rs738298 TSCAF 22 45.649 36152015 forward MIT
CAGTTTATGTTGCTTAGAAATAACAGCTCATTAAATTTGCACCTTATAAAACAGGGTATTAAATCCCAGCCGCCA
CACACCTGCCTATGGGAGGTGGGGA[C/
T]GCAAGCCGCCAAGCCAGGCACGATCAGGTGCTCTGTTCAGATCCATCTGCAACACCTTTGTTAATTTTGGAGC
AGAAAAGCTCCAAACATAAATTATAAA C/T extended_map 0.162
0.066 0.493 0.003 24.3% 284 80.9% 236 100.0% 50
75.8% 66 17.9% 112 25.0% 56 26.5% 34 31.7% 82
14.3% 42 83.0% 112 86.2% 58 72.7% 66
100.0% 50 75.8% 66
rs739269 TSCAF 22 46.028 36455107 forward MIT
TCTCTGTCCCTGCCTCTCCCCTCTAGCTTCTGTGTCTCCTTCTTATCCCTCCTGTCTTTCCACCTCCCTTGTTGT
TCTCCCTGCCCCCTGCCTGGCTCCC[C/
T]TCTGCCTCTTAGAGCTTGTAACTGTCTTTGTTGATCCTTCTTGCAGACTTGGGCATAGACCTCGGGCCTGGTC
CCTGCAAGGAGCGGGTGTGAATGCTCC C/T 2,134 0.119 NA NA
NA 97.0% 132 61.3% 150 NA 0 NA 0
97.0% 132 NA 0 NA 0 NA 0 NA
0 61.3% 150 NA 0 NA 0 NA 0
NA 0
rs763072 TSCAF 22 49.1646 38911113 forward MIT
CATTTGTTAGAAGTTTAGCTTTATCTCTCTAAAAGAAAGGTTCACTTGCATGTCTTCATTTTTCTAAAGGGGTCA
GTGTGTTATTTATATTGGGTTTTTA[A/

G]CTCGTGTTGCTTGTCAGTGGATGCTATAAAGCCTATGCTTGTATAATATAAATCATAAATATGGTATTATATA
AATATATAATCCTATATACAGAGGCAG A/G 1,848 0.153 0.100
0.543 0.078 80.1% 272 25.8% 248 0.0% 48 2.6% 78
84.7% 98 91.1% 56 84.4% 32 66.3% 86
75.0% 40 25.0% 112 27.1% 70 25.8% 66 0.0% 48
2.6% 78
rs727563 AB_ASSAYS_ON_DEMAND 22 49.2676 40110416
forward LGD
TAAAATCCTGGTCTCCTTGTTTGTTCCTTCAGCTAAGATGAATGAACAATATTATGCAGTTTGCACACTGCCTCC
CAATAACCAGGCTGTCTCAAATAAC[C/
T]AACTAACACGGTTTCTCTGAGAAGCTTGTATATTTACCCCTTTTGTGCTTAGATACATTTGAGAAGTGATGGT
TACTACCTTAATAGTCATGTATGCAAA C/T extended_map 0.164
0.386 0.024 0.147 18.4% 196 74.7% 154 5.2% 58
29.5% 78 NA 0 18.8% 64 15.0% 40 19.6% 92
21.4% 42 NA 0 72.4% 76 76.9% 78
5.2% 58 29.5% 78
rs203316 APPLERA_RESEQUENCING 22 49.2724 40166690
reverse MIT
ACTAGGGGTGCCCCTAGCAAGTGTGCGCTGGTGCTGAGGTCTGCGAGGCCTTCCTGCTGCACATTCATGATCAGA
AAGAACCCCCTGGCACATGTCCTAG[A/
G]TCTCAGCGGCTCAGATCTACAAGCCTGGAAGCAGGGCCTGCGGGAAGCCGGGAAGCTGAGCGTCGGATGTGCA
CTGTGTGAGCCTAAGAAGGGGCAAGAG A/G 1,228 0.234 0.005
0.319 0.437 67.6% 306 2.9% 308 5.2% 58 73.7% 76
66.2% 136 67.3% 52 73.7% 38 67.5% 80
71.1% 38 0.6% 156 5.4% 74 5.1% 78 5.2% 58
73.7% 76
rs738422 TSCAF 22 49.3386 40366438 forward MIT
CCCCCAAAATCAGCTTCTATGATACTTAAAATCTGTGGTTGCAGTTAACGCTTTTCTTGATTTCTGAAAGTGTTA
GAGGCATCCCTAATAGCTATGGTGA[C/
T]GAGTAGGAGTTTGGATATTATTCAGAGTGCAATGGAAATTCACTGAGATGTTTGGAGTAGCAAATATGCCTGA
TCTAAAAATTCTGATGGGGGAGGCATC C/T extended_map 0.085 NA
NA NA 32.7% 110 75.0% 112 NA 0 NA
0 32.7% 110 NA 0 NA 0 NA 0
NA 0 75.0% 112 NA 0 NA 0 NA
0 NA 0
rs6002476 AB_ASSAYS_ON_DEMAND 22 49.3626 40411920
forward LGD
GGTTATCTCATTCACACCCATGGCTTTGTTTGCCTCCTGGCTGTATGGTGATGACTCAAATCCCTGCACCACCCC
TGACCTCTCTCCTGAGCTCATACCC[A/
C]TGAAGTCAACCATCTATTTGACATTTCTGCCTAAAATGGAGCTCATTATCTCCTCTCCCAAATTCCCTTTCTC
AGCCTGGGTCTTCCTAGAATGGAGAGG A/C extended_map 0.277
0.000 0.424 0.000 75.8% 198 3.9% 152 3.6% 56
3.9% 76 NA 0 77.3% 66 80.0% 40 72.8% 92
85.7% 42 NA 0 5.4% 74 2.6% 78
3.6% 56 3.9% 76
rs714002 AB_ASSAYS_ON_DEMAND 22 49.6056 40799899

forward MIT
GGGCTCTTGGCACTGGGACTGGCTCCTGTGAGGCAGACGGCTGTCCCCCGGGGAGGAGTCAGACTACTGGCATTT
CCTAATGACCCATCCAGGGCTCTGA[C/
T]GGCACCAGCAAGATCAAAGTCTGCAGCAGAGATAGCAGCTTTAAAATGCTACTGCAACGAGAGCTGCAGAAAG
TAGAATTCCCAGCTGTTTTTTCATGAG C/T extended_map 0.152
0.074 0.492 0.107 25.0% 328 79.9% 288 100.0% 58
42.5% 80 24.6% 130 25.8% 66 30.0% 40 22.8% 92
42.9% 42 79.1% 134 78.2% 78 82.9% 76
100.0% 58 42.5% 80

rs713811 AB_ASSAYS_ON_DEMAND 22 49.6062 40800745
forward MIT
CATGGTCATCTTGTGAAACTGCCTCTGGGTCCCAGGTCTCCACATGAAGGAGCAAAGTGCACAGCAGCAGAGGCA
GCAAAGCCAGAGGCCGACAGCCCTA[C/
T]CCTCACTCCTCCCAACCCAGACCCCTCTGTCTTGCTGGACACGCGGCCACCAACTTCTGTTAAATAGAGATGC
TACCAGCTTAACTAGGCAGGCTACCAA C/T extended_map 0.13 NA
NA NA 70.9% 110 19.2% 104 NA 0 NA
0 70.9% 110 NA 0 NA 0 NA 0
NA 0 19.2% 104 NA 0 NA 0 NA
0 NA 0

rs1005286 TSCAF 22 49.7543 41029038 reverse MIT
CACTCAGTCTGTCCCGGATCCAGCCCCTTCCCCGGGGCTTCCTAGGCGTCCCAGGCTGGGCTCCATCACCCTCTC
CTGGAATATAGGTCTCTGCTGCCAC[A/
G]CCCTGGCTTCTGTCACAACCTGGCGTCTGTCTTTATGCTGTCTGTCCTGCCATAGCATAGCCCCTGTAGGCGG
GGGACTTAGTGTCCCCAGCACCTGGGG A/G 1,947 0.134 0.210
0.000 0.040 60.7% 308 10.3% 262 60.7% 56 28.7% 80
63.2% 114 75.8% 66 40.0% 40 55.7% 88
90.5% 42 10.0% 110 14.5% 76 6.6% 76 60.7% 56
28.7% 80

rs137116 TSCAF 22 49.8928 41242615 forward MIT
GCGCTTTGAGCCGGTCTAAGGTTGCCCACAGTATTGACGTTGGGACCCACGAAACTGGCAATTTCCATGTGTGCG
GCCTTACCCAGTTCTCCCAAACTTC[C/
T]GCGTATAACCGCTTCTCTGTGCTTCAGAAAGATAAGTCCGGCCCCGGCCTCACACAGCAGCTCAGTTCGTGAC
AGCGTTTAATATGTAAAATGGAGCAAA C/T 798 0.307 0.000
0.364 0.136 1.5% 332 64.3% 300 63.0% 54 21.2% 80
1.4% 138 0.0% 64 5.3% 38 1.1% 92
4.8% 42 65.5% 148 58.1% 74 67.9% 78 63.0% 54
21.2% 80

rs2013730 TSCAF 22 49.92 41421758 forward MIT
CCTGTGCCCCACACATCCTCAGAGCTCAGCAAGTGCCAGCTGCTGCTGGCCTGCAAACCCAACCATGGCGTCAAG
GCTGTCCTACCGTCCACACCCTTCC[C/
T]AGCAGGCTCAGGAAAAGCCTGGACGAGAAAATGCATCAAGGGGCAGGCCCCGCTCCCTGCCCCTGGCACCAGT
CTCGCCACTGCTCCTGTCCTTTGCTCC C/T extended_map 0.074 NA

NA NA 10.4% 134 43.4% 152 NA 0 NA
0 10.4% 134 NA 0 NA 0 NA 0
NA 0 43.4% 152 NA 0 NA 0 NA
0 NA 0

rs1076118 AB_ASSAYS_ON_DEMAND 22 49.92 41530651
forward MIT
AATGTAGGCCCTGGGAGTTCCACACTTCGGTGCTGCCTTGAACCACAAGCTCAGACTAACACCTAACCTCACTGG
GGCTCGCCATCTGCAAATGAGGTGA[C/
T]GCTATTTACCTTGCAGGGCCCAAGAGGGTTAGAGATTCAGAATCGCCTTGAGTCTGATCTACAATCCAGACTC
GATTCTGACCCAGCACTAGTCCTGTCC C/T extended_map 0.107 NA
NA NA 6.6% 106 44.6% 112 NA 0 NA
0 6.6% 106 NA 0 NA 0 NA 0
NA 0 44.6% 112 NA 0 NA 0 NA
0 NA 0

rs737802 TSCAF 22 49.92 41759734 forward MIT
CTCACAGAGCAGGACAGGCTGCAGCAGCCAGTCCTCCCCTTCCCGCTGAGATGGCACACCTGCCTATGGTGCAGG
GCTGGCAGAGGCGGGGCCAGGATTC[C/
T]AGCTTCCCCACACACCAGCCCTGTGGCATCATTCTTCCCAACGTCCAAACGTTTTTCCAAGGGGGAGAAATGG
ACTGGGTCATGTAAAGAAATACTCATT C/T 385 0.352 0.052
0.224 0.003 97.3% 328 25.6% 270 51.9% 54 30.6% 72
97.8% 138 96.8% 62 94.7% 38 97.8% 90
95.0% 40 24.4% 156 27.6% 58 26.8% 56 51.9% 54
30.6% 72

rs739306 TSCAF 22 50.2942 41914029 forward MIT
TGGGAGAGGGAGAGAGCCTGAAGGTGCTGCCTTCTAGATACACCAGGCACAAGGGTGTGTGATGGGGGCAGCGGG
TGGGCCCCTGGGGCTGTGGCCAGAG[A/
G]AGGGATTGTCAGTACTTATTGGGCTAGGGCTGAGTGGGAGGTAGGGGGTGCTATCATGGGGCCAGAAGCAGTG
CTCGGAAGTGCTGAGTGGAGGGAAACT A/G extended_map 0.159 NA
NA NA 83.0% 112 27.7% 112 NA 0 NA
0 83.0% 112 NA 0 NA 0 NA 0
NA 0 27.7% 112 NA 0 NA 0 NA
0 NA 0

rs713788 TSCAF 22 50.3801 41943477 forward MIT
CATTTGAAAATGGAGCAAACAACTAAGAAAGCCAAGCACTTATGTTTTGGGAGGATTAAATGAGATAACTCTTGG
AAGATACTTCACCTGGCATCTGGCA[C/
T]GATCAACGTTGTGTGGTCCCAGTTCTTCACAATCTAGTCAATGCCCTGCTCACCTCCACAGCCCCACACCTGC
TGCTCCCTGCACGCACCAGGAGCTGAG C/T 1,763 0.16 0.040
0.092 0.011 72.0% 328 15.8% 292 36.2% 58 25.6% 78
75.4% 130 80.3% 66 72.5% 40 60.9% 92
78.6% 42 15.0% 140 15.4% 78 17.6% 74 36.2% 58
25.6% 78

rs1807715 TSCAF 22 54.3529 42924976 reverse MIT
GGTTCTGTTGCCAGCCTGGCTGCTCTGGGCTCGTTGTATCCCAGGATCTGCTTCCCGGTGAGCTGGCTTGAGCTG
TCTGAGACTTGGGAGGTGGAAGCAG[C/
T]CGTCAGTGGTGCTGGTGGTCTCACTGGGCAGAGCCAGGGAAGCACAGCTGCAGGGGTGCACCAGGGCCCCCAG
CGTCCTTGGGTTTTCCGTCTGTGTCCG C/T 1,557 0.142 0.259
0.006 0.170 12.0% 308 60.9% 256 5.4% 56 14.1% 78
14.9% 114 4.5% 66 13.2% 38 13.3% 90
19.0% 42 62.7% 110 55.6% 72 63.5% 74 5.4% 56
14.1% 78

rs132404 TSCAF 22 56.099 43406939 forward MIT
CTCCCAGCCCTCTTTGCTGGGTGCTGAGGTCCCAGAGCTTTTGTCCCAGCTCAGCGCACAGCTGGGTGAGCAGCC
TCATCTCCCGGGCCTTGGCTCAAAT[A/
G]CACCTGGAGGTAGCGGTGAGCCCTTCAGAGCTCCGGATGAGGGGAGATGATGGCGTGAGCCAGTGATGGGAAG
AAGAGAGTGGGGCTTGTGAGGTGGTCC A/G extended_map 0.179
0.015 0.150 0.063 12.8% 312 69.2% 308 55.2% 58
39.7% 78 8.2% 134 12.5% 56 16.7% 36 18.6% 86
18.4% 38 72.4% 156 66.2% 74 65.4% 78
55.2% 58 39.7% 78

rs738546 TSCAF 22 57.1151 43709893 forward MIT
GGATGTCCTGAGGGACCTCAACAGCAGCACATCCAAAAACAGTCTCTTTCCATTGTGACAACATTCCATTGGTGG
ATGATAGTGTTCCATTGGTGTCAGC[A/
G]TTTCATGAGAGGGTGACAGCATTCCACTGGCGGGTGACTGTTCCATGAGAGGGTGACAGTATTCCATTGGTGG
GTGACTGTTCCATGAGAGGGTGACAGT A/G extended_map 0.136
0.162 0.001 0.002 85.6% 320 36.5% 296 83.3% 54
42.1% 76 84.8% 132 93.5% 62 76.3% 38 85.2% 88
88.1% 42 31.8% 154 40.0% 70 43.1% 72
83.3% 54 42.1% 76

rs998706 AB_ASSAYS_ON_DEMAND 22 58.608 44012172
reverse MIT
GGCAGTAGGCCCTACCCGCGATGTGCACACCAGTCAGAGGTAGGCCACGGGGGGACAAAATCTATGTACACACAA
CAGCAGCAACAGCAGAAGAAAGCCA[A/
G]TCTATTGAGAATAATCGCCCGGGCCTTCGTTCTTGTCAGCAGGCACTGGAGGAGCCCAGATATGCAGAAAACA
AAACAATGAACGTGAAAGAAAGTAGTG A/G 372 0.224 0.000
0.281 0.053 2.4% 336 54.5% 308 55.2% 58 27.5% 80
0.7% 138 7.6% 66 0.0% 40 2.2% 92
0.0% 42 56.4% 156 55.3% 76 50.0% 76 55.2% 58
27.5% 80

rs138179 TSCAF 22 60.5549 44421742 forward MIT
ACATCATATTTGGCTTAACACCTGCCGTAACACTGGGTACATAGTGTAGTGAAATTAATGGACGCTGGATGACTT
TGCTTGCTTTACTGGTGAGTCAAGC[G/
T]TAGAGTAGTTACTTGCTTGGAGCGATAGCAGGCCAAATTCTGACTCCAGAGCCCATACTTTTCCTGTTACCAT
CCACTGCTTCCACCGTCACCACAAAAG G/T 1,512 0.093 0.016

```
0.243   0.023   52.3%   304     10.9%   266     1.9%    54      1.3%    78
        50.0%   112     46.8%   62      63.2%   38      54.3%   92
60.5%   38      14.3%   112     7.9%    76      9.0%    78      1.9%    54
        1.3%    78

CV2519151       AB_ASSAYS_ON_DEMAND     22      61.6278 44856409
forward LGD
CACCATCGACTGGGTGTTGGGGGGCTTCTGTCCCACATAGCTGTACGGAGCTGTCAAGGTACAGAGTTCACACTC
AAACACTCCCAGAGGACGGCACTCT[A/
G]CATGGGACGCCATCTGCAAGATCAAGAGATGGGGTGTCCCTGGGTCACAGGCTTTCTCAGGAATCCTGCCCCT
TTCCCAGCTATGAAGACCCTAACCATA     A/G             extended_map    0.165
0.029   0.412   0.065   74.2%   198     16.9%   154     3.4%    58
0.0%    80      NA      0       80.3%   66      80.0%   40      67.4%   92
        88.1%   42      NA      0       10.3%   78      23.7%   76
3.4%    58      0.0%    80

rs6008793       APPLERA_RESEQUENCING    22      61.9815 44999675
forward LGD
AGAGCTGGAGAGGGGTGACCAGGCTCTGACCCACACCCCCTCACGCAGAACCAGGTTTCTAGAAGGTCAAGAGAA
CTCAGAACACGAGGGAGCCCAGGGT[C/
T]CCCCAAACACCCAGCGTGCATGCACACACGTGCACGCCAGTGCAGCAGCCTGTCCCCGCGCTGTAACCTGCAG
GGTGTCGAGGGGCAACGCGGACCTTCA     C/T             1,062   0.174   0.054
0.491   0.041   78.4%   194     19.7%   152     1.7%    58      3.7%    80
        NA      0       90.6%   64      71.1%   38      72.8%   92
85.7%   42      NA      0       12.8%   78      27.0%   74      1.7%    58
        3.7%    80

rs738238        TSCAF   22      62.4277 45180434        reverse MIT
TGTGGACGTGTGTCAAGGAGGAACACTCAAGAAGGTCCCCTGGCCTTCTTATCCAACAGAGAGGCAGAGCCAGGC
AGGCAATGAAGTCACAGTGTGGTCA[A/
G]TGATGAGACAGAGAGCCACAGAAGGCTGAGGAGGCTTCCTGGAGGCCATGATACTCTAAGAGAGGCCAAGGAG
TGACCAGAGGTTAACTAGGATAAGATA     A/G             1,588   0.123   NA      NA
        NA      65.5%   110     15.5%   110     NA      0       NA      0
        65.5%   110     NA      0       NA      0       NA      0       NA
        0       15.5%   110     NA      0       NA      0       NA      0
        NA      0
rs710123        AB_ASSAYS_ON_DEMAND     22      62.8648 45357519
forward MIT
AGTTCCATGCTTTAATCTTCCTCTTCCAGTAAAGAAACAGCCTGAAGTGGCCTGTCTGCGAGTCACAGTGTTAAC
TCAGATCCACAGGAAGATGTTCACC[A/
G]GATGCTCCTTGGCCAGGCTGCCATCATCCACTCGGGGGTAAACAGTCTCCGAATCAGGGCTGGCTGGCGGCTG
ACAGCCAGGGCAGGAAGTCTGCAGGGC     A/G             1,926   0.078   NA      NA
        NA      20.9%   110     59.8%   112     NA      0       NA      0
        20.9%   110     NA      0       NA      0       NA      0       NA
        0       59.8%   112     NA      0       NA      0       NA      0
        NA      0
```

rs135593 TSCAF 22 64.9499 46202234 forward MIT
CCCCAGGGCTGCTCTCTCTGAAGTGCGGCTCAGAGCACCCTGGGGACGGGGTTTGTCCCTGCATTCTCCACGCGA
CTGGCACAGGGCTCCACACGCTCCC[A/
G]GACCAGCAGAATTCCAAGTGATTGGAAGGTAGGTGCTTGCCAGGTTCTGGTCAGCTCCCTGGCCCTCCGTGGT
TGACTTCACAAAGTGCTGCATTGGGTA A/G extended_map 0.056 NA
NA NA 49.1% 110 16.1% 112 NA 0 NA
0 49.1% 110 NA 0 NA 0 NA 0
NA 0 16.1% 112 NA 0 NA 0 NA
0 NA 0
rs738745 AB_ASSAYS_ON_DEMAND 22 65.5828 46458639
forward LGD
AGATTGTCCAAGCTGGCCTTTGGTTTCTTGTGCAGTCCAGACTGAGAAGAAAGTCTTGGCATTTCTGAGACTGTA
GGGGGTTGTTTCAGCCCATCTGAGC[A/
G]TGGTGCACAAAGGCGGAAGCAGGCTGGTCCTCAAAGGACTACTCTGAGAAGGAGAAAGCAAAGGCTATGGGCT
AAATGTCAGGGTCAGAGGAATGGCTCC A/G 1,826 0.095 0.104
0.004 0.178 32.8% 198 77.0% 152 39.3% 56 27.5% 80
NA 0 39.4% 66 25.0% 40 31.5% 92
33.3% 42 NA 0 78.9% 76 75.0% 76 39.3% 56
27.5% 80
rs1028528 TSCAF 22 65.8689 46574531 forward MIT
CCATTGAATCATTTTCTTTAACAGAGTGTCCACAGCTGATGCCTCCCTGACCTGTGGTCTTGGCAAGCACAATGC
AAAAGAAAGGTCCTTACTCGACATC[A/
G]CTGTGTGCAGATCCGCGGAGGTCTGGCTCTAACCTTCATCCTCCCTTGGGCATCCACCCATCAACCTGTGGCT
GCTGGATCCCCATGCCCTTGCTGGGGC A/G 604 0.204 0.040
0.506 0.029 83.5% 260 21.3% 230 4.0% 50 39.7% 68
84.0% 106 79.5% 44 84.4% 32 84.6% 78
71.1% 38 16.0% 106 20.0% 60 31.2% 64 4.0% 50
39.7% 68
rs742022 AB_ASSAYS_ON_DEMAND 22 66.855 46974003
forward MIT
GCGCACTGGAAGTGCTGTGGTGCGTCGGCCATTATTATTTGGGGGACGGGCAAGACATATGCCCCTCCCAAGATC
ATCATTGCATCTGTCAAGCCCACAG[C/
G]TATGATCCCCAGACTCCTAAGCAACCTTCCAATGATGATCAACTCCCACGTAGGTTGGGAATGAGAGAAGGTT
CATGCAGACTCAGTCTCCAAGGCCTGG C/G 889 0.182 0.024
0.143 0.143 23.0% 330 82.7% 284 67.2% 58 39.7% 78
21.6% 134 19.7% 66 23.7% 38 27.2% 92
11.9% 42 82.1% 134 84.2% 76 82.4% 74 67.2% 58
39.7% 78
rs130805 AB_ASSAYS_ON_DEMAND 22 66.9538 47014059
forward LGD
ATCGCAAATGCCAAGTGCCTGGCCCAGAAAAAGCACTGGGCAAGAGTTGTTTCTCATCTCTGTCATTCAATGAGC
TAATCAATCACCAACTCAGCCAAAT[A/
G]TCGTTTTGCAATTGCCTCTGTTTTTAATTTTCCTCTTGTCATGTAGTAATTTCACATTCTTAATCTTATTTAT
CAATTTTAAGAGGCATGAAAGGATCCC A/G extended_map 0.102
0.014 0.081 0.063 39.3% 196 84.4% 154 73.2% 56
57.5% 80 NA 0 40.9% 66 44.7% 38 35.9% 92

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        30.0%   40      NA      0       81.6%   76      87.2%   78
73.2%   56      57.5%   80
rs763003        TSCAF   22      67.1847 47107579        reverse MIT
CACAGGCCGGCTGACCCCGGCGCCACCCCCCTGCGGAGGGCCCTACTGAGCCTGAGCTCAGCCAGGGACCAGGAA
CCAGGGACCAGAGTCAGGGGAGCCG[G/
T]CTAGAACAGAAGGGCACGTCGGTGCTAGGCTGGGGGAGGCGCAGAGATGGACATAAAGCAAACTCTAGGCAAC
CAAGGGTCCCACCAGCAGAGCAGAACT     G/T             extended_map    0.095
0.001   0.151   0.054   33.8%   328     0.7%    300     0.0%    56
13.3%   60      31.2%   138     37.1%   62      21.1%   38      41.1%   90
        23.8%   42      0.0%    156     0.0%    70      2.7%    74
0.0%    56      13.3%   60
rs743802        TSCAF   22      69.2119 47808163        forward MIT
ATTCTGACTTGAAGAAAGTACAAAGTCTTTTTCTTCTCAAACCTGGGCTCTAATATGCTGAGATTGGTTCTTTTA
TTTTTTCTTTTCAACCCTGGCAGTA[A/
G]AACAAGCTTCTCATCTGCATGTAGCAGATTAAAGGAGAGCTCTGAGCCGTGGCCTCGCCCAGGCTGTGGACAG
GTTCTCCAGGAGGGGCTCGATGTCAGC     A/G             1,541   0.121   0.027
0.078   0.004   62.5%   328     13.9%   288     29.3%   58      18.8%   80
        67.7%   130     60.6%   66      70.0%   40      53.3%   92
73.8%   42      12.7%   134     19.2%   78      10.5%   76      29.3%   58
        18.8%   80
rs739079        TSCAF   22      69.2174 47810779        forward MIT
AAGAAGCCGACCTTGAGCGGCAAAGACACAGGGTGGGCGGGGGCCTCATGAGCATGCAGGGGATAGATCAGGGTG
GGCGGGGACCTCACGTGCAGGCAGG[G/
T]GATAGATCCAACCGTCCGTGTTCCACCATGGGGACAGAGGATCAAGAGCCGGGGGCCTCAGTCTCAGCAGAGC
CCGGGTGGCAGAGAGGGACTAAGGCCT     G/T             extended_map    0.089   NA
        NA      NA      35.9%   128     78.8%   156     NA      0       NA
        0       35.9%   128     NA      0       NA      0       NA      0
        NA      0       78.8%   156     NA      0       NA      0       NA
        0       NA      0
rs737844        TSCAF   22      69.5436 47966251        forward MIT
GTCGACAGCTGGAGGGATAAAAGCAGTAAGGCAATGCGGTCCTCACACACAGAGGGCAGCTTCGGCCCCGAAAAG
GAAGGAAAGTCGGACACATGGTCCA[C/
T]CACGGATGAACCTTAAGGGCATTGTGCCAAGTGAAACAAACCATTCACAAAAATGACAAACACTGTATGATTT
CACTTCTAGGAGAGCCCTAGAGCATCA     C/T             extended_map    0.041   NA
        NA      NA      62.5%   112     33.0%   112     NA      0       NA
        0       62.5%   112     NA      0       NA      0       NA      0
        NA      0       33.0%   112     NA      0       NA      0       NA
        0       NA      0
rs1001320       TSCAF   22      69.5512 47969864        reverse MIT
TCCAGAGTGTCCTGTTCTGGGGACCACCTGCCGGCACCCAGCCATGAGCGCCTTGAGGAAGCCTCCTGTGACCAG
CAGTCAGTGAAACTCTGTCTCCACC[C/
G]TCAAGAGGAGGAAGGAAACTCAATTCTGTTAGGGTTAGCTCTCTAGGACGTGAGAGAGATCCGCCACGTCAGG
GGACCTTTCAGCGGGCACCATCCTGTT     C/G             1,949   0.081   0.000
0.105   0.043   3.0%    334     29.5%   292     29.3%   58      53.7%   80
        1.5%    136     3.0%    66      5.0%    40      4.3%    92
0.0%    42      27.1%   140     32.9%   76      30.3%   76      29.3%   58
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        53.7%   80
rs737356        TSCAF   22      69.6083 47997070        forward MIT
TCAGGGCTCAGGGCTCGGGTGCTGTGCGTGCCTCCTAGGAAGCCCCGCCTTCCCGCCCTCCTTCTCCTGTTAACT
CTTACTCCCTCCGGCTCCAGTTTAC[G/
T]CAGGATTCCTCTGACCACTCCATTCCAGGAAGCAGTGGGGCTCTGGACTGGCACTCTCCTTGTACCTCACATG
TAATTAAATACATCCCTGAAAGCCCCT     G/T             extended_map    0.056   NA
        NA      NA      45.5%   112     79.5%   112     NA      0       NA
        0       45.5%   112     NA      0       NA      0       NA      0
        NA      0       79.5%   112     NA      0       NA      0       NA
        0       NA      0
rs739239        TSCAF   22      70.1806 48269804        forward MIT
CCAGGGGCCCCAGCCGCACCAGCTCTCATTCCTGCCCCGCCACAGGCAGGCAGCCCAGCTGGCGTCCAAACCTCC
TTCACGGGCTCCAGGGAAAGTGGCT[A/
G]CCTCGGAGCCCAGGCCCAGGGGACCTTGAAAGATAAACCGCCATTGTACAGCTCCAGGGAAAATCAGAATCGT
CCCTAAGGAGTCTCAAGAAAGCACCCC     A/G             extended_map    0.084   NA
        NA      NA      85.3%   136     47.1%   140     NA      0       NA
        0       85.3%   136     NA      0       NA      0       NA      0
        NA      0       47.1%   140     NA      0       NA      0       NA
        0       NA      0
rs138823        AB_ASSAYS_ON_DEMAND     22      70.4296 48388493
forward MIT
GGCGAGGGGGCTGGGCAGTGCCCTTCTCCACCAGGCAAACAGCGGAGCACTCACCTCCGACTTTAGCTGTGCCAG
GGCCCAGCAGACAAAGACGCTGCTC[A/
G]CCACAGGGACACTCAGGTCACCGAGCCCACGGCCCCCAACCACCCCAGCCGGTCCCCGGAGTCTAAGGCCTCT
CAACTCACCAACTTCTCTTATTATCAA     A/G             345     0.221   0.056
0.570   0.013   84.5%   330     20.4%   304     1.7%    58      10.0%   80
        82.8%   134     90.9%   66      81.6%   38      83.7%   92
90.5%   42      23.7%   152     15.8%   76      18.4%   76      1.7%    58
        10.0%   80
rs764813        TSCAF   22      70.6751 48505506        reverse MIT
TGGCAGGCACTGAAGTCCCAAGTTTTGTCTCCCTTGCCCAAAGATGTCTCAGCTTTCCAGCCTTTTGCTGCTATA
TTTGGGTTTCCAAGCCTCTTGCCTC[A/
G]AGCACAAGCAGCAACCAGGCATAGGCACCTGCTGCAGGGGAAGCTGCACACTGGGAATTCGGCCACTTCTCTG
AGGCTCCTGGCATCCTGGCCAACATGA     A/G             extended_map    0.221
0.035   0.520   0.006   83.3%   330     18.7%   294     3.4%    58
11.3%   80      80.1%   136     86.4%   66      83.3%   36      85.9%   92
        90.5%   42      21.8%   142     15.8%   76      15.8%   76
3.4%    58      11.3%   80
CV174380        AB_ASSAYS_ON_DEMAND                                     LGD

CTGGTCCAGTGTCATGTCCAGGCGGTGGCTGCCAGGATCCAGCCCCTAAACACAGCCTGGGGGCCACTTCCAGCC
GCCTGGAAAGGAAGAGACAGGCTTG[C/
G]ACTGGTGCCGTCCTTGCTCTTTCTCCGTGAGCAGAACTTTGGGCCACATAGGTCCTTTCTCGGAACCACCGAC
TGCCCCCACCAAACCCAGGTGTGGGGG     C/G     does not map reliably to HG16
public assembly (physical position was chr22: 34,269,222 in Celera R27
assembly, which interpolates to chr22: 48,568,635 in HG16 and 70.8076 cM in
```

the deCODE genetic map) extended_map 0.234 0.044 0.136 0.039
7.6% 198 69.5% 154 44.8% 58 46.3% 80 NA 0
0.0% 66 10.0% 40 12.0% 92 7.1% 42 NA
0 69.7% 76 69.2% 78 44.8% 58 46.3% 80
rs909692 TSCAF 22 71.4875 48892661 forward MIT
GCCTGCCCAGGCATTAGAGGTCCCGCCCATGTGCCTACTGGGGACAGTGTGGGGTCGTGGCACTGCAAGGGAGTG
ATCACTGAGGAGTTTCGGGTGGCGT[C/
G]AGGGCCTGGAGGCCATCTTCCAGGAGAGGCACCTTCAGAGCTCGGCGGGGGCAAGGGAAGCCCCCCTGGAGGG
AGCCGCCGGTGGAGGACAGTCCCAGGC C/G 1,835 0.067 NA NA
NA 68.8% 112 31.1% 106 NA 0 NA 0
68.8% 112 NA 0 NA 0 NA 0 NA
0 31.1% 106 NA 0 NA 0 NA 0
NA 0
rs140514 APPLERA_RESEQUENCING 22 72.0295 49150985
reverse MIT
AGCCAGAAAATGCTGACAGCCTCATGCTGGTGGACTTCGAGTACAGCAGTTATAACTATAGGTGAGGCTGGAAAG
ATGGCTTCCCATAGATCTGTTCCCA[C/
T]AGGGCTCTTGAAAACAGGCCAGCTGCCCAGGGCATTTGGGGACTGAATGTCCACCTTATTCTCCCAGGGGCTT
TGACATTGGGAACCATTTTTGTGAGTG C/T 1,052 0.131 0.013
0.267 0.000 94.4% 324 53.6% 302 39.7% 58 51.2% 80
92.4% 132 95.3% 64 97.4% 38 95.6% 90
95.2% 42 52.1% 146 51.3% 78 59.0% 78 39.7% 58
51.2% 80
CV25472616 APPLERA_RESEQUENCING X 6.3096 537441 reverse LGD

TCATAAATCCCTGCGTGGGGAGCGGAGGGCACAGGGCTGAGGCCGGGGAGGTTTTGCGCAACGTGGCGAACCCCT
TCGTGCATCCCGCGGTGGAAAGGGG[A/
G]CCCTCGAAAACCAATGCGCTTTGACGCAAAAACTGCGTGGGGTCCATAAGGCAAAAGCCGAGGAGGATACTCG
CTGCTTTCCCAAAAACCTGGGCTTTGC A/G pseudoautosomal region of the X and
Y chromosomes; HG16 and CeleraR27 positions are more than 1Mb discrepant
based on linear regression 1,083 0.11 0.001 0.178 0.000
61.5% 178 100.0% 79 100.0% 51 100.0% 67 NA 0
54.6% 54 56.2% 32 67.4% 92 73.4% 32 NA
0 100.0% 40 100.0% 39 100.0% 51 100.0% 67
CV506952 APPLERA_RESEQUENCING LGD

CATCATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGTGAGGCGGAGGTTGTAGTGAGCCAA
GATCGCACCATTGCACACCAACCTG[C/
G]GTGACAGAGCAAGATTGCATCTCAAAACAAACAATAATAATAAATAATAAAAACCTGATATTTGGCTGGGCGC
CGTGGCTCATGCCTGTAATCCTAACAC C/G does not map reliably to HG16
public assembly (physical position was chrX: 5,726,808 in Celera R27
assembly, which interpolates to chrX: 1,887,732 in HG16 and 7.9282 cM in
the deCODE genetic map) 114 0.33 0.260 0.032 0.178 96.0% 174
24.0% 77 84.0% 47 73.9% 67 NA 0
100.0% 52 96.7% 30 93.5% 92 98.4% 32 NA 0
29.5% 39 18.4% 38 84.0% 47 73.9% 67

rs310138 TSCAF X 8.2811 2182175 reverse MIT
AAAAGAAGTAGATGACAGATAGACAGATGGATATAGGTAGATACCTACGGAGAAATAGATAGACAGCTAGATCAA
TATATGAGACAGAGAGAAAGAGAGC[C/
G]AGCGAGCAAAACAGAGAGAGAGTGTATGTGTGCGTTTGAAGCTAAGACAGGGTTTCTCAGCCTCAGCACTGTG
GACATTCGGGTCTGGATCACTTTCTGA C/G pseudoautosomal region of the X and
Y chromosomes 1,016 0.19 0.047 0.104 0.025 81.6% 239
21.1% 161 45.1% 51 38.1% 67 79.8% 62 88.7% 53
76.6% 32 80.4% 92 85.9% 32 17.1% 82
25.0% 40 25.6% 39 45.1% 51 38.1% 67
rs211644 TSCAF X 8.6116 2457851 forward MIT
TAAATACGTCGTTCACCCAAATCTCTGATGGCAATTATTCTGAGGATCCTGGGATTCGCAGCCCACCACCACCTA
AACCCTGCGGTTCCTAAGTTCTTTT[C/
T]TGGGAGGCAGGGATGTGCTGTGCCCATATACAGGTGCTCACCCAGCCCTGACTCACTCAAGCAATATTCCCCT
TCCATCCTGTTCTAAACCCAGGAAATA C/T 616 0.243 0.001
0.299 0.010 92.0% 226 28.5% 186 31.4% 51 17.9% 67
95.8% 48 94.4% 54 96.9% 32 87.0% 92
100.0% 32 24.1% 108 43.6% 39 25.6% 39 31.4% 51
17.9% 67
rs2128516 TSCAF X 12.71 5224159 reverse MIT
ACAATGTTTGTTTGCTTATGAGATGAAATAACATTAATAATAAGCATTTAAAAATGTACATTGTCACTATTTTGA
ACAGCTTCATGCTAGAAGATAGCTA[C/
T]GGAATTATGAGTCTGGAAACATAGGATAGTATATTATAATTTATATATAATTATGGTAAGATCCATTTTTTTT
TTAGTGTTTTCATAATCAACTTTGTCT C/T 621 0.232 0.094
0.064 0.023 0.9% 226 51.0% 155 15.9% 44 68.9% 61
0.0% 58 0.0% 53 0.0% 29 2.3% 86
3.4% 29 47.6% 84 50.0% 36 60.0% 35 15.9% 44
68.9% 61
rs1343877 TSCAF X 13.242 5798453 reverse MIT
ACCAGCCAAGCCTGGATGCCCTGGAGCTGGAATCCTGCATGGCTCATAGACAAAAGTGGGTTTTTGGATGCTCTT
AAATGAGAAATCATTTCTTACCAGT[A/
T]AAAGAGAAAAAAGTACCAAGTAGAGAATAATGGGGATACTACCTAAGACACAATTCCCTTGGAGCACAGCTTT
GCTTCAGGTTGACCTTTTGTATAGAGT A/T 286 0.243 0.000
0.350 0.021 12.9% 225 79.6% 147 80.9% 47 92.7% 55
14.9% 67 12.5% 48 3.1% 32 15.4% 78
26.7% 30 81.7% 82 75.8% 33 78.1% 32 80.9% 47
92.7% 55
rs877633 TSCAF X 17.9087 9009290 reverse MIT
TTCCACACTCACTTCCCATGTAATCCTAGTACGGTCTGTTTCTAGAGAAACCCTCTTAAAACTCTGGCCCCAACA
GCCTGTCTGGTCCAATATCCTACAC[A/
G]CAACTGCCATGTTCTATCAAAGTTCTCCAGCACAAATGCTGCTACCGTTTTTTTAAATCAAGGAAAACGATGG
TGTTTTGCTTCTTTCATGAACAAGTAC A/G 2,012 0.065 0.003
0.064 0.254 84.8% 243 51.9% 160 58.3% 48 100.0% 67
86.6% 67 87.0% 54 78.1% 32 84.4% 90
84.4% 32 47.6% 82 64.1% 39 48.7% 39 58.3% 48
100.0% 67
rs723259 TSCAF X 18.3625 9250703 forward MIT

GCTCCAAAACAAAAGACCAGCTCCAGGATGCCAAGATCTTCCTTGGAATCCCTGGACCCCCAGATGTCTGTAACT
TGCCTCCTTATACACACCTCATTTT[C/
T]ACTGTCTTTCCCACCCTGCCTGGATACTCTTATTTGGTTCAGGGGGCAATAGAAATAAGCAAAGTCAGCCACA
TCAACACTTAGGCTTTCTAGCATCGAA C/T 830 0.248 0.000
0.378 0.005 72.0% 232 4.1% 148 3.9% 51 7.6% 66
69.6% 56 77.8% 54 59.4% 32 74.4% 90
68.8% 32 4.2% 72 5.3% 38 2.6% 38 3.9% 51
7.6% 66
rs756827 AB_ASSAYS_ON_DEMAND X 18.8135 9490701 forward MIT

GGAGAATCTGAATGTGAAAGAGCTCTTGCACGGCTGCGTTTGTTTTCAGCTAAACATTTCCTTCTGTTCCACCCC
TGGTATTCTTGTATGTGTGTTCTGC[A/
G]TAGGAGGGCCTGGGAGTTCCTGTTGCTTCTCTGTGAAGGGGGGAGGACTTGGCCCCACAAATGTCGCCTGCAT
CTCAGGGCCCCACACCCACGCTCCTTT A/G 292 0.241 0.178
0.035 0.326 15.0% 240 82.3% 158 33.3% 48 16.4% 67
14.1% 64 13.0% 54 9.4% 32 18.9% 90
3.1% 32 81.2% 80 79.5% 39 87.2% 39 33.3% 48
16.4% 67
rs1474458 TSCAF X 20.5386 10408566 reverse MIT
TAGAAATTTTATATTGAAATCTTTTACTACTGATTTCCTTCTATTTTCTCTATCCTCTATTCATAGAATTTCAAC
TATTCTAAAACATTCTCCCCCTTCT[A/
G]TGGAGGGGGTCAAAGGCATCTTCTTTGAGAACCTATCTTCCAAGAGAAATAAGCACAAGACACTCAAATCAAA
AGTTTTCCAAATATTATCCTAGAGAGA A/G 589 0.216 0.378
0.002 0.153 73.6% 225 8.9% 158 78.7% 47 50.0% 56
77.9% 61 77.4% 53 77.4% 31 66.2% 80
78.6% 28 13.1% 84 5.3% 38 2.8% 36 78.7% 47
50.0% 56
rs1013549 TSCAF X 22.0401 11522490 forward MIT
TGGTACAGACTGACAGCTGCAGTGAAACTTACTTGTACTTTAAATGCATGACCTGGAAAGTCTCACTTTCTGCTT
ATGGTCCTTCCAGCTGTTCATTCTC[C/
T]CCCTTTACATACACATACACTGTTCAACTTTAGTACTTTGTTATTTCATTTGAGGTTAACCGTGGAAGTTTAG
CTGTAAGAGAATGTACATTATTGGTGA C/T 1,381 0.15 0.426
0.039 0.210 70.4% 240 15.6% 160 90.2% 51 68.3% 63
78.1% 64 77.8% 54 60.0% 30 64.1% 92
78.1% 32 11.0% 82 25.6% 39 15.4% 39 90.2% 51
68.3% 63
rs850632 AB_ASSAYS_ON_DEMAND X 24.4993 12270992
forward LGD
GTTGCACATCCTACTACTTATTTATGGCCCAATTTTAACATGGGGGTGGAGTTGAGGTTGGAATTGTTCCTCCGC
CTCTGCTGCACATGCTCAGTAAGCA[A/
G]GAACACTGTTGATGGGAAAGGCTTAGTCACAGACAGTGGGAGCACATCCCTCCTTGGAGCTTTGGGTCGCTGT
GCTCCAGAAACAGTTAGTTATAGCACA A/G 1,249 0.096 0.109
0.002 0.248 80.1% 176 37.2% 78 76.5% 51 92.5% 67
NA 0 72.2% 54 87.5% 32 82.2% 90
75.0% 32 NA 0 37.5% 40 36.8% 38 76.5% 51
92.5% 67

rs764232 TSCAF X 28.2 13709702 reverse MIT
CCTTCCCAGCTCCTTGCCTCAGAAGCCTTCTCTTCTCATCCTCCTTATTCCTGTCAAAGGGGTCTTTATTTAAGC
CTCAGAACACATCTAGTAGAAGACA[A/
G]GTAATATGAGGAAAGAGGTTGAGGTAGGACAAGACTGAAAACTTTGTAAAATGGTGGAAATAGCCCAGACTTT
GGAGCTCAACATACTTGAATTCAACCC A/G 2,146 0.061 0.056
0.269 0.036 82.0% 233 49.1% 163 21.6% 51 26.9% 67
78.7% 61 82.4% 51 96.6% 29 79.3% 92
80.6% 31 51.2% 84 42.5% 40 51.3% 39 21.6% 51
26.9% 67
rs2188925 TSCAF X 28.2 13926254 forward MIT
TTTTTTTCTGCCTACAGTTGAAACTGGGTTTGCAAATGGCTCCTGGGTAAAAAGTATTCTATAGCACCTCCATCT
CCCAGAATGAGTTCATTTAAGAGGT[G/
T]CCAATGTATAGTTAACAGCACTGTAGTTTGGCTGAAGGAATCTTTGTGATGCTCAGTAAGAGTGGATTGACAT
GTGAAGCTTTCATGATTGAGTTATTCC G/T 2,114 0.14 0.033
0.058 0.095 0.0% 241 30.4% 161 11.8% 51 3.0% 67
0.0% 65 0.0% 54 0.0% 32 0.0% 90
0.0% 32 29.8% 84 35.9% 39 26.3% 38 11.8% 51
3.0% 67
rs1514284 AB_ASSAYS_ON_DEMAND X 29.6501 14912091
forward MIT
GTGACTAATTTGAAGCTGGGCTTCCAATAGCCAAGTCATGTTTCTTTATCTACACCTCTGTGTTTACACTGAACC
CCCAGTGTTTTGGAATGAGAATCTG[C/
G]TCAAATATTGATTCGGATCTTCTTTTAAATTTCTATGTGTGCAACTCTTTTTTAGCAGCTAGATTGAATGATC
GTCTGCCTTGGTGCCTTCCCCATGTGC C/G 2,108 0.136 0.002
0.210 0.001 56.8% 234 100.0% 159 100.0% 51 100.0% 67
55.4% 65 55.8% 52 51.9% 27 60.0% 90
93.8% 32 100.0% 82 100.0% 39 100.0% 38 100.0% 51
100.0% 67
rs705859 TSCAF X 29.8438 15351760 forward MIT
CAGGCAAAAAGCCAAGCCAAGTTCTCAGGAAATAAAATGAGACAAAAGGGAAAATAATAGCTGTCCATGGGAGGG
AAGAGATCAATAACAAACGTATGCC[C/
T]CAAGACCAAAAGTCACAATTCAAGCTAATTCTCATAAAAGTTTTTCTCCTGCCAATCTGAATTTGAAAAGAAA
GGGCCAGGAGAAATTTTTGCCTCCTTC C/T 2,111 0.135 0.190
0.001 0.202 3.0% 237 40.8% 157 0.0% 46 0.0% 67
1.6% 62 5.9% 51 0.0% 32 3.3% 92
0.0% 32 42.2% 83 40.5% 37 37.8% 37 0.0% 46
0.0% 67
rs1007420 TSCAF X 30.31 17007119 reverse MIT
GACCATTCAGGAAAAGAGAGACAGCATTAGATGATCACTGAGGTCCCTAATAGTTCTAGCACTCAGATTGAACTT
TGGTTCATCTCTTGATGACTCTGGT[A/
G]CCTTTAGTGTGAATGCTAAAGAAAGGCTTGGCTTCCCCAATCCAAATGTATTCAAGATGGTGCACAGTTGCTG
TATTAGTTATGTAACTCCTGATTCTGA A/G 397 0.452 0.139
0.267 0.051 10.5% 238 98.8% 161 68.6% 51 85.1% 67
11.3% 62 5.6% 54 10.0% 30 13.0% 92
9.4% 32 98.8% 84 97.4% 39 100.0% 38 68.6% 51
85.1% 67

rs3747295 AB_ASSAYS_ON_DEMAND X 30.3168 17107670
forward LGD
ACCCTCTGCAGGTCTGGAGGAAGTTGCACAACCTGAATCTGTGGATGTAATCACATCTCAGTCAGACTCACCAAC
TAGAGCAACAGATGTAAGCAATCAA[C/
T]TTAAGCATCAATTTGTTATGAGCCGCCACCATGACAAAGTGCCTGGTACTATCAGCTATGAATCGGAGATAAC
ATCTGTAAATTCATTCCCTGAAAAATG C/T 886 0.445 0.079
0.316 0.119 6.7% 178 94.3% 79 68.6% 51 60.6% 66
NA 0 0.0% 54 0.0% 32 13.0% 92
0.0% 32 NA 0 92.5% 40 96.2% 39 68.6% 51
60.6% 66
rs2213602 TSCAF X 30.8496 17469501 forward MIT
GATAAATAAATAGATAGAGGCACATAGATATATAATTTAACAAACACTTATATGGCACTTGTTGCCTGACACTCT
TCTAAGTGCTTTACAAACGTTGTTA[A/
G]CTCATTTCACCCTTGCAACCATACGAGATACGTATGCTGTTATTACCCCTCACTTTAACAGATAACAAAGGAG
TGATTTGTCCATCTAATAACTGAGAGC A/G 1,327 0.394 0.001
0.620 0.077 88.7% 238 5.0% 161 2.0% 51 28.8% 59
90.8% 65 96.3% 54 83.9% 31 84.1% 88
61.3% 31 3.6% 84 5.1% 39 7.9% 38 2.0% 51
28.8% 59
rs6633170 AB_ASSAYS_ON_DEMAND X 32.0924 18298636
forward LGD
CCACTCACCCCTGAAGAGTAAGAAGAGATTTACAGAGATAATGTATGTGTGTAGAAATTTGCTGTTTGGAAAAAC
TTTATCCCAGGAAAAAAAAACTACC[A/
G]GTCAAGATAGTGTTTACATCTCGTCCTCCCAAGATGAACTGAATAATATGTAAGACAGCCTGAAGGATAGCAG
CCGAAGTCTGGGCTTTTTGTTTTAATT A/G extended_map 0.325
0.015 0.306 0.013 94.9% 175 22.1% 77 35.3% 51
34.3% 67 NA 0 100.0% 54 96.8% 31 91.1% 90
96.8% 31 NA 0 17.5% 40 27.0% 37
35.3% 51 34.3% 67
rs960190 TSCAF X 32.5514 18570733 reverse MIT
TATGGAGGAAGGAAATAGCCGGCTCCCACAGGAGCTCCTCCATCTGCCTCATTTGTGAGAGCTTGTTTGGCCTCA
TTTGTAGAGGTGCTCTACCACTCAC[A/
G]CAGAGGAAGAAAAGCCATTCTCTCTTGTAGCCACCTCCAAGTGTTTGTGATGAGGGACAAATGACTCAGGGGC
CATCCAGAACTCTAGAATTCACCAGAA A/G 1,832 0.339 0.000
0.536 0.004 79.3% 242 1.3% 159 0.0% 51 3.0% 67
75.4% 65 83.0% 53 96.9% 32 73.9% 92
87.5% 32 0.0% 80 2.5% 40 2.6% 39 0.0% 51
3.0% 67
rs5955757 RANDOM X 32.829 18735265 forward MIT
ATGTGAAAGTAAAATGGTTTGGGGCAGTTGGATTCATGCTTCGCCCCTCCCCTGTTTATTACCAGGTGGATGGAA
TGGATATCCTGTGCGTCCGAGAGGC[A/
G]ACAAGGTTTGCTGCTGCCTATTGTAGATCTGGGAAGGTAAGGCTCTAAAGCCCTCTGGGCTAGTGACATTTAT
CTCTGGAAGTTCAAAGACTGCCTCCCA A/G 3 0.567 0.001
0.765 0.000 96.5% 260 2.0% 204 2.0% 51 1.5% 65
96.7% 91 100.0% 53 96.9% 32 94.0% 84
96.8% 31 2.4% 126 2.5% 40 0.0% 38 2.0% 51

1.5% 65
rs2285073 AB_ASSAYS_ON_DEMAND X 36.9117 21595576
forward LGD
ATTCAGGAGATTCAGCAAGTGTTCAGTTAGAGGCTACACTAGACCAATAGATGGGAGCCATAGAAAAGACATTTC
AGATCAGCATTATGGAGAGCTATTA[C/
T]GTTTAGACCCGCCCAAAGAGGAAATGGGTTACCTTAGAAGGGGATGAGCTCTTGGTCATTGGAAATACCCAAG
CAGGGTATTATAACCATTTGAATGGGT C/T 1,166 0.247 0.059
0.616 0.014 88.6% 176 21.5% 79 2.0% 51 34.3% 67
NA 0 88.9% 54 96.9% 32 85.6% 90
96.9% 32 NA 0 15.0% 40 28.2% 39 2.0% 51
34.3% 67
rs1022100 AB_ASSAYS_ON_DEMAND X 41.1348 22971004
reverse MIT
CAGAGCCCACCAGGCTTCCTCAGACCAGCCATGAGGTAACAACCAAGTGTGGTAGGATGCTGTGATTTGGGGTTT
GGTGGTGAAAGGAGGACTCTACACT[G/
T]ACCAAGGAAGTAATGGAAGCAGAGATGTTTCACAAGACTATGGTATTCTACAACAGCCCTATTTTACCAGTGA
AATAATCCAATGGTTTTTTTTTTTTT G/T 2,127 0.141 NA NA
NA 83.3% 66 31.0% 84 NA 0 NA 0
83.3% 66 NA 0 NA 0 NA 0 NA
0 31.0% 84 NA 0 NA 0 NA 0
NA 0
rs1978240 AB_ASSAYS_ON_DEMAND X 41.4186 23177041
reverse MIT
AAAATACTAACACAATAACCTGGGCTGCAAAACTTGTTTAGCAAGTTTCAACTGGAGGTTAATTAAAATCGGCTT
GGAAACCTCTTAAAATACAGACTGG[A/
C]ATGTAAACCACACACACGCAGCACCACCTAGATTCTTCCCTCAGGAGCTTTCTCCTCTCCACTTCCCTGGATT
TCTGTGGGAACGTTTCCCCAGAATTCC A/C 251 0.275 0.025
0.198 0.059 1.8% 164 61.8% 123 41.7% 12 32.1% 28
1.5% 67 0.0% 26 0.0% 23 4.2% 48
4.3% 23 66.7% 84 47.1% 17 54.5% 22 41.7% 12
32.1% 28
rs2520229 AB_ASSAYS_ON_DEMAND X 41.5895 23301105
forward LGD
ACTAAACATCATAACGGGTTTTAAATGATCAGAACATACCCAACTTGAACAGTTTAAGGTTCCTTTTTCCCTTTA
GTTCAGCTTCAAACTCTGGTAACAC[C/
T]TGGATTCATGGTTGATAGAAAACTTGTAAATATGGAATATTTCTCACTCTAAGCTTACTCAACTCTGTTGCTC
TTTGTCTCTTTGTGTTTTTTGTTTGTT C/T 1,893 0.15 0.042
0.071 0.062 83.7% 172 30.5% 77 54.9% 51 60.3% 63
NA 0 79.6% 54 83.3% 30 86.4% 88
90.6% 32 NA 0 28.7% 40 32.4% 37 54.9% 51
60.3% 63
CV11851758 AB_ASSAYS_ON_DEMAND X 42.2408 23956193
forward LGD
TCGCCTCGGCCTTCCAAAGTGCTGGGATTACATGCATGAGCCACTGTGCCTGGCCTGTGTTTCGGAAGTTTTTGA
AACACCTGGAATATTGCAAAACTGG[G/
T]TAAAGAGTCCTTGATTTCGACCTTCCAAACCTTCCTGCAGCCTCAGGCTGGGGCATGAGCTATGTGTGTTGCT

ACTGAGAGCTATATATATACATATATG G/T 479 0.28 0.019
0.211 0.011 0.6% 178 57.7% 78 40.8% 49 44.8% 67
NA 0 0.0% 54 0.0% 32 1.1% 92
3.1% 32 NA 0 57.5% 40 57.9% 38 40.8% 49
44.8% 67
rs999793 AB_ASSAYS_ON_DEMAND X 42.2576 24667769
reverse MIT
TTCTCTCAATCTGTCTGGAGTCACACAAAAATCACTTGAAGCAGTGAATCTTTACCAATGGCACACCTTCACTGT
CTCTGCAGAAATGTCTGTTACTAAT[G/
T]AATTAATCCCTACCACTTCACCTGTACTGGCTTCCCCCGGGACCTCTAACCTCCATGTTTTCAGCATTCTTCC
TGGCAGCCAACTGCAGGAGTGGTGTGT G/T 761 0.248 0.036
0.157 0.046 95.9% 242 36.2% 163 58.8% 51 61.9% 63
97.0% 66 96.3% 54 96.7% 30 94.6% 92
96.9% 32 38.1% 84 37.5% 40 30.8% 39 58.8% 51
61.9% 63
rs1872873 AB_ASSAYS_ON_DEMAND X 42.5415 25300994
reverse LGD
GGCTTCATAAATGTTTCTTTCATTGATTTTATTTCTTAATATAACATAGTCTGATAATAAGGTGGATTAATCTGT
ACAAGTTCTCAAATGATCTAAGGTT[A/
G]GAGGCACTGAATATAGAAAATGAACCCACAGGTTAGAACTCAATAACATTCATTTACCCTTTAAACAACTGGA
GAAATCCATGATCACTCTGTTTAAGAT A/G 1,118 0.208 0.229
0.002 0.211 3.4% 178 55.7% 79 4.3% 47 6.2% 65
NA 0 1.9% 54 6.2% 32 3.3% 92
3.3% 30 NA 0 60.0% 40 51.3% 39 4.3% 47
6.2% 65
rs221391 TSCAF X 42.9608 26937138 forward MIT
TTATTGTCCCAGGTTAGATTCTATAAGAGTAGTTGCTGAGAAAGAGTTTGGAAACAAGATGCTTATTAGTGAAGA
TGAGAGGAAGAAATTGAATTGTGAT[A/
G]CTGGAAGCTTTGGAGTAATGCTTTTCAGAGTATCTCATGTTGGGCTGTAGAGGTTGTGCCTTCACATTCCCGC
TTTGCTCAGTGAGAGATATGGGCTCTT A/G 1,537 0.186 0.011
0.350 0.010 93.4% 241 40.6% 160 28.0% 50 52.3% 65
96.8% 63 98.1% 54 96.9% 32 87.0% 92
96.9% 32 39.0% 82 41.0% 39 43.6% 39 28.0% 50
52.3% 65
rs1015928 AB_ASSAYS_ON_DEMAND X 43.9209 28723378
forward MIT
TTTTTTACATTAGAAATCTCATATATGTGTCTTTGTGGGCAATATTTATTTAAATAAAGGCTAAAGATTCCCAAA
AACATTAGTGAGAAACTCTTCTTAA[G/
T]TAGCTTTCACTTCTTGGCCCACATTAGTCTTTCTCTCTCTCACTTTCTCACACACATACACACACACCACACA
CAAATGTAGGTAGGAGAGCAAGGGAGG G/T 1,845 0.149 0.002
0.231 0.138 94.1% 236 49.0% 157 43.8% 48 89.6% 67
98.4% 64 88.9% 54 96.7% 30 93.2% 88
96.8% 31 53.1% 81 42.1% 38 47.4% 38 43.8% 48
89.6% 67
rs2006793 TSCAF X 44.2711 28846279 forward MIT
CTGAACTTCATAGCCTTAGCAGCCACTGTTAAACTTCGAGGTTCTGTCGCATTTATAGTGACAGCCAATTCCCTC

AGAGTTACACAGCAGTTGCTGGCAA[A/
G]TATAATCTCACATTTGGCAAATGCTTGCATTTCTGAAGCTCACTTTTTCATTGGTTCTTCTCAACAATGCTGT
GAAGTAGGCAGGGAAGTTATGATATCC A/G 2,128 0.138 0.017
0.300 0.105 8.0% 237 53.2% 156 68.8% 48 16.4% 67
3.3% 61 13.0% 54 0.0% 32 11.1% 90
3.1% 32 47.4% 78 64.1% 39 53.8% 39 68.8% 48
16.4% 67
rs5973335 AB_ASSAYS_ON_DEMAND X 45.5807 29305928
forward LGD
ATGATTAACTTTTTTCTCAATTAATAAATGACAAGAGGGTGATCCTGGACAAAACCAATGTCGAGGGCCAAGAAT
AATAAACTCTTTAGTCTTTAATCAT[G/
T]CCTGTTGATCATTCATGTGGGCCAAAGCTCTTAAATATTTAATTATACATGGTTATAGTCACTGGAAGTCCTT
TTTTGCTTTATTGAGTTTTACACTTGT G/T 1,304 0.264 0.018
0.211 0.032 97.2% 176 36.7% 79 52.9% 51 58.2% 67
NA 0 96.3% 54 93.8% 32 98.9% 90
96.9% 32 NA 0 35.0% 40 38.5% 39 52.9% 51
58.2% 67
rs725979 AB_ASSAYS_ON_DEMAND X 46.21 30464377
reverse MIT
GACACAAAGGAAACGAGAAGATTAATAGTTCAAGGCAATTACAGTCAAGGCGTCACTGGGCAGTCCATGACTGAT
TGCCGTGCTAGTTGTGTGGGCACTA[A/
C]TCCCTTTAGATCTTTAGAGGAGGCTGAGTTCACTTTAGACAGAGAGGTTTCAGGTAGAAGACAGGGTTGGATC
TGAGTCTAAATGGCAAGCTGGGATCTA A/C 2,132 0.122 0.032
0.345 0.001 30.5% 236 80.4% 158 95.7% 47 77.8% 63
27.0% 63 31.5% 54 22.6% 31 35.2% 88
15.6% 32 75.0% 84 92.1% 38 80.6% 36 95.7% 47
77.8% 63
rs1540705 TSCAF X 47.5701 31087273 reverse MIT
GTCCTTAATTCATAGTTCCATTGTGGCTATTAAAAGGTGAACTGAAAGCTTGCAAACACGTGGTACCTTGTAGAT
AATTTTCTCCAGTCAGACAGTTAGA[C/
T]AAAGGCCTCTGAGGTTTCTGGGGTCATTGTTGAAGCTATGTTTTAAAATCCTATATCCTTCTCTCATTGTTGG
TTCCTTTTCACAACACAGAAGTTTTCT C/T 2,067 0.049 0.075
0.000 0.005 30.4% 240 62.1% 161 29.4% 51 53.7% 67
24.2% 66 33.3% 54 30.0% 30 33.3% 90
15.6% 32 64.3% 84 64.1% 39 55.3% 38 29.4% 51
53.7% 67
rs1458376 TSCAF X 48.0893 31279197 forward MIT
TTTAATATGACTGATTTTCAAATCTGGATTTGTTGTCTCTAGGAGTTGGAAGGTGGGAAGGCCTGCAAAATTTTT
TTTATTAATTTAAAATAGGACGATA[A/
T]ACATTCCATACAGCGATTATTTATTTTCTTAACCATAACAGTCTTAACTAGAGCACACAGCAGAATCAATTGG
GTAGGAGTTTTTGTTTTATTTTGTTTT A/T 1,922 0.072 0.005
0.062 0.053 12.6% 231 46.0% 150 37.5% 48 73.1% 67
10.2% 59 20.4% 54 13.3% 30 9.1% 88
9.7% 31 43.6% 78 42.9% 35 54.1% 37 37.5% 48
73.1% 67
rs874829 TSCAF X 48.8207 31590393 forward MIT

CTCATCATTTTTGTACAAGTCAATGACCTTTCAACGGCAGTACCTGTTAGATAAGGGCTTTCTGGGCTGCGAGTG
CTGAAAGCAAGGCGAGAAGAATGAG[A/
G]AAACCTGGGTATTTCCATTAAGAGGAGGACGGTCTTTTCATGGACTCGCTTGTCTCAAACTTTTGAGCAGGAG
TCACTCCAACTCCATTGTGCTCTCTGA A/G 847 0.159 0.000
0.209 0.032 13.0% 239 66.0% 153 64.7% 51 44.8% 67
8.8% 68 13.0% 54 3.2% 31 19.8% 86
3.1% 32 53.9% 76 74.4% 39 81.6% 38 64.7% 51
44.8% 67
rs724271 TSCAF X 49.0427 31695958 reverse MIT
TGATGACTGGACACTACGTATCAAGATAGTAAATCTTTCAATAGATCCGTCTTCATTAAATATATTTAAAGTATA
ACATTAACCTTTTAGACTTTATAAC[A/
G]TATAGCTGAACTGTTGCCCATAGGTAATTGTAATGAGAAGCATCTTAGAAATTACAGGTATTCTAATTTATCT
TTATAATGGAAAGAAAAATTTTTGAAA A/G extended_map 0.152 NA
NA NA 95.2% 42 47.2% 72 NA 0 NA
0 95.2% 42 NA 0 NA 0 NA 0
NA 0 47.2% 72 NA 0 NA 0 NA
0 NA 0
rs3788905 AB_ASSAYS_ON_DEMAND X 49.2641 31801238
forward LGD
GGTCATCTGCCACAAAATGTTCTTACAATACATTAAGCTTGCTGAAATAGAAATAAACTGGTTCCAAACTTCCTC
TCTTCTCTATGTCCTCACCCCACAA[C/
T]GGCATCTTCTCATCGTCTATAGATGAAACCCATCGTGCTGGAATTATTTGGCATGGGAGAAGAATAAACAGGT
TTCCGGTGTGACGCTTTAACTTGTAGG C/T extended_map 0.139
0.013 0.314 0.007 28.7% 178 82.1% 78 92.2% 51
89.6% 67 NA 0 31.5% 54 12.5% 32 32.6% 92
30.0% 30 NA 0 85.0% 40 78.9% 38
92.2% 51 89.6% 67
rs699457 TSCAF X 49.6617 31990308 reverse MIT
ATTGAAAGTAAGGAAATTTCTCCTTCTGACAACAAAATGCATCAGTAACCTTAGAGTCCCCACAAAAGCAACTCC
CATCTGCTGCATCACCAAACTTCTA[A/
G]CCTAATATAATATTTATTTTTAGCTTTGTGTAGATAGACATTAAATCCTTGTGCCATCACCATTTTTTCTTAA
AGATGATTGCAGATGACAAAATTAAAG A/G 303 0.234 0.009
0.244 0.032 86.5% 244 20.8% 159 30.0% 50 40.3% 67
86.8% 68 87.0% 54 87.5% 32 85.6% 90
84.4% 32 19.8% 81 25.0% 40 18.4% 38 30.0% 50
40.3% 67
rs5972632 AB_ASSAYS_ON_DEMAND X 49.7158 32016047
forward LGD
ATGTTCCAGTTTTTCACAAAATTAAACATGCACTAACATTTATTTTCCTACTTAATGGAATGTGAGAAATAGTAT
TGTTTTTATACTGAATTCTATGAGA[A/
G]AATCGAAAATGTGTCATTGTTTTCAAATCCTGATCCATTTTTGTCCTCCATCCATATAGCTGAACAGTTTAAT
TATTAATATTTTTCAACTATCCGAGGC A/G extended_map 0.181
0.000 0.293 0.000 54.5% 178 0.0% 78 0.0% 51
0.0% 67 NA 0 53.7% 54 53.1% 32 55.4% 92
40.6% 32 NA 0 0.0% 40 0.0% 38
0.0% 51 0.0% 67

rs6527220 AB_ASSAYS_ON_DEMAND X 49.8377 32073991
forward LGD
ATAGGCACCTCAAGATTAATATGTTTAAAACTGAAATCCTAACGTTCACTCCCAAACCTGTTCCTTCTACAGTCT
CACCCATCTTGGTTTGTGGCAACTC[A/
T]ATTTGGCCAGTTGCTTAAGTAAGAAACCTCACGGTAATCCTTGATTTCTCTAATTATTTCATAAGTCACATCT
ACTGCATCAGGAGGGAAATGACTTTGA A/T extended_map 0.184
0.010 0.227 0.000 42.1% 178 98.7% 78 94.1% 51
98.5% 67 NA 0 46.3% 54 40.6% 32 40.2% 92
68.8% 32 NA 0 97.5% 40 100.0% 38
94.1% 51 98.5% 67
rs2814862 AB_ASSAYS_ON_DEMAND X 50.5726 32423495
forward LGD
AGGCCCCGGTGTGTGAGGGAATTAGAATTTTGTAATTCATTTGGGTAGAGGAGCAAAAGGTATATATTAGGCTCA
ACTTTTCAGTCGGTGATGAGAGACA[A/
C]ATGGCCTGCCATCCCTGCCCTCTCTCACCTACCCCAGTTAATCTAAATCTGCAAAACGAAAGGAGCTTCCACT
AGGCCAGAGGGGCTGCAGGATGGGAAA A/C 1,429 0.128 0.057
0.038 0.006 15.5% 174 64.1% 78 35.3% 51 55.2% 67
NA 0 18.5% 54 21.4% 28 12.0% 92
12.5% 32 NA 0 65.0% 40 63.2% 38 35.3% 51
55.2% 67
rs1011759 TSCAF X 55.2803 34693647 reverse MIT
ATTTTCTATGCCTGAGATAGAATAGAATATGAAGTGCCACTAATTTTTTAAGATGTAGTAATTGCAGAGCAGTGC
ATAGATAGTAATGAGGAGCTTCATT[C/
G]AATGTCATGATGACAGCTTGGCTCTCTTTGATTTTACATGAATCTAGAGAGCACTTATGTAATATAGTGAAAA
GAGACCTGGCTTGAGAGGTTTCTTTGT C/G 718 0.253 0.021
0.208 0.021 8.1% 236 73.1% 160 56.9% 51 56.7% 67
0.0% 59 9.4% 53 6.2% 32 13.0% 92
9.4% 32 80.2% 81 72.5% 40 59.0% 39 56.9% 51
56.7% 67
CV2665804 AB_ASSAYS_ON_DEMAND LGD

AAAGGTTCCCTGAATGGGACTTTATGTTGTAAATACAAGTGAACAGGAAGGTTTAAAGTTGGCTATGGCTAGAGT
ATGGCATAAAGAGGGAGTAAAAATC[C/
T]ACTAACCACCTCAGGAAATGCAAAAGGAGAGATTTATTTAGGAGGAAGTACAATGATCTAACCACATAGAGAT
GATTGTTTCTTTGGGACTGCTGGCAGA C/T does not map reliably to HG16
public assembly (physical position was chrX: 40,969,440 in Celera R27
assembly, which interpolates to chrX: 35,988,259 in HG16 and 57.4522 cM in
the deCODE genetic map) extended_map 0.185 0.003 0.311 0.036
10.2% 176 66.7% 72 73.5% 49 86.2% 65 NA 0
14.8% 54 6.7% 30 8.7% 92 21.9% 32 NA
0 63.2% 38 70.6% 34 73.5% 49 86.2% 65
CV12114709 AB_ASSAYS_ON_DEMAND reverse LGD

AACGAGTGTTCCTCAGGGCTGAAGTACAGCATGGAGCTAGACGAAATGGATGAGGTCAAATTCTTCTCACAGGAA
AAAGACTTGGACGGGAAAATCCAGA[A/
C]TGCACCAAATTCTCATAGTGCACAGCATGTGAAGATGGGGTATGGAGCATGGTACCTCAAGCCTAAGTTGGGG

AAAAAGCTAAGAAGTGATGAACCTTTG A/C SNP maps inconsistently to positions in chromosome X via BLAT (Jul2003; position 33,509,780) and BLAST (Build34v.2) search utilities, so no position is included in the table (physical position was chrX: 41,153,722 in Celera R27 assembly, which interpolates to chrX: 36,146,281 in HG16 and 57.7173 cM in the deCODE genetic map) extended_map 0.304 0.024 0.280 0.001 87.9% 173
12.8% 78 27.5% 51 14.9% 67 NA 0
90.2% 51 87.5% 32 86.7% 90 87.5% 32 NA 0
17.9% 39 7.7% 39 27.5% 51 14.9% 67
rs718288 TSCAF X 58.7202 36744099 reverse MIT
CCATGACATTGTTGACATTAATTGGAACTGTAATCACAGAGTCCCTGGAAATATAGTAGATGTAGAGCACAAAAT
GTGCTGCTTGACATATAGAGGAGGT[C/
G]CATCATCTATTATAGCATTTAAGTTGGTCACACAACCACCTGCAATCAAAAACATTAGCTATGATCAGTGGAG
GTAAAAGGGAGAGGGGATGAAGTAACA C/G 176 0.305 0.001
0.457 0.002 23.6% 246 98.1% 155 98.0% 49 97.0% 66
17.6% 68 29.6% 54 21.9% 32 25.0% 92
21.9% 32 100.0% 81 94.6% 37 97.3% 37 98.0% 49
97.0% 66
rs5963039 AB_ASSAYS_ON_DEMAND X 59.7883 37380820
forward LGD
GCTAAGAAAGCATTGCATCTTTTTTCTGACCCTCTACTCCGTTTGACAGCATTCCCCATATTGGAACCACATATT
GATTTTTTTAAATAGCTTCACACAA[C/
G]TACTTAAAAGTCAAAATATCCCTGGCAACCGAAAAACTGACAGGCCGTGAAATAGCTGCTTAAGGACCTGTCA
TCCAAACTGAACTCACCTGAAAACTGA C/G 1,101 0.247 0.055
0.159 0.014 79.8% 178 10.3% 78 33.3% 51 20.9% 67
NA 0 81.5% 54 93.8% 32 73.9% 92
62.5% 32 NA 0 15.0% 40 5.3% 38 33.3% 51
20.9% 67
CV289328 AB_ASSAYS_ON_DEMAND X 61.9001 38976533
forward LGD
CAGAGCCTCTGCAATTTCCAGAAAGCTTTCAGTTAATAACACATTCTTTCCAACAAGCTTACTTAGGGCTGAAAG
TTATTTTCACAAATCTTAAAAACTC[A/
T]GCCATAAACAGCTGAGGACCCAGTTCAACGGATCCTGGCCAAACCCCACCAACACGGTGACACTCACGGCCCC
GTGGGCCTTCTCCCGCCACCTCTGCCT A/T 380 0.284 0.005
0.375 0.303 78.1% 178 4.5% 78 8.2% 49 64.2% 67
NA 0 83.3% 54 90.6% 32 70.7% 92
96.9% 32 NA 0 7.7% 39 1.3% 39 8.2% 49
64.2% 67
CV1138477 AB_ASSAYS_ON_DEMAND X 63.3021 39715631
forward LGD
TTTTTGGAGAGCTTGACTGTAGGGCAGTCAATCCAGCCTATTCTATTTGTCCACACCACCAGCTTGAGGGCATGT
GTCACCTCATGGAATGACCGAGAGA[A/
G]AGCTATAAGAATGGGATTGGGGAAGACATCTGAAGATGCTGACAGGTGGTTTGTGTGAAAGTTAGCTCTTTGT
GTTAAAGTCAGCTCTTCCACTGTTTCT A/G 721 0.198 0.000
0.331 0.000 40.9% 176 99.4% 79 100.0% 51 100.0% 67
NA 0 38.9% 54 34.4% 32 44.4% 90

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37.5%   32      NA      0       100.0%  40      98.7%   39      100.0%  51
        100.0%  67
rs1012202       TSCAF   X       66.6773 42082283        forward MIT
CACAGCTGTGCGATTTGAAGGAAAAACACACAGTAACTGGAAAAACGATGCTCTGAAATGCTAAAAGAGACTCAG
CAGTATACTTAGTGACATCCCTATG[C/
T]CAGGTACCTTCCAATTGATTTCATTAGGATAGAAAGTACAGCTTTTTGGTTTACCGTCTCCCCAAGCTTAGAC
AGCCTGCTTTAGTCTTCTGCACCATAG     C/T             1,386   0.123   NA      NA
        NA      30.2%   63      81.0%   79      NA      0       NA      0
        30.2%   63      NA      0       NA      0       NA      0       NA
        0       81.0%   79      NA      0       NA      0       NA      0
        NA      0
rs726187        TSCAF   X       67.577  42956196        reverse MIT
TAAAAATGCCAGTTGCTTGATTCCCACCCCGCAACACATACATTTTTTTCCCATTTAGAAGGCAGTGTAGAGTTG
TTGAAAAAGCATAAACCTATGCTCA[A/
G]TTCCAAGCCTCACTACTTTCTGATCATGAGTCATTAAGCATTTCACTGAATCCCTCTATGCCTGTTTTTTTAT
TTGTAGAATTGAGGTAATAATATGTAT     A/G             1,725   0.09    0.034
0.037   0.000   64.5%   152     21.4%   145     41.5%   41      22.4%   49
        68.3%   63      60.0%   30      100.0%  15      50.0%   44
52.4%   21      27.7%   83      6.1%    33      20.7%   29      41.5%   41
        22.4%   49
rs5906992       AB_ASSAYS_ON_DEMAND     X       68.7531 43458379
forward LGD
TACCCAAAAGAAAAAGACAAAATTCAGGCTCGCTTTATCCCTTCCCCTTCCTTTTCTCTCACAGGTAGACATCCT
TTCTCTACTTGAATACCTGGCAACA[A/
C]TTGTCCCTTACAGGATAAAGTCTTTACAAAATAAAGTCTAAATTTCTGGCACACTGCAGTGTGTGGCAAATTT
TGTTGTAAAGTACCAGATAGTAAATAT     A/C             378     0.215   0.144
0.713   0.001   3.9%    178     58.4%   77      96.1%   51      55.2%   67
        NA      0       0.0%    54      3.1%    32      6.5%    92
0.0%    32      NA      0       56.4%   39      60.5%   38      96.1%   51
        55.2%   67
rs7887756       AB_ASSAYS_ON_DEMAND     X       69.31   43829704
forward LGD
TATTTTTGAACTCTGTTCTGGGATGCAGTTAAATCACTTGGAAATAGTTTGATGCTTTTGAGGCTTGCTTTTAAT
TATACAAGCCTCTGGGAATAGAGCA[A/
G]CCTTTAGTCTTGGGCTAATGTTGCCCAGTGTGGAGGCAATATCCTTGTTAGGATTCTTTGGGATGCCACTTGT
ATTACAAGTTTTTCCACTTTGACTTGT     A/G             788     0.201   0.008
0.395   0.000   70.5%   176     7.7%    78      2.0%    51      7.5%    67
        NA      0       66.7%   54      87.5%   32      66.7%   90
81.2%   32      NA      0       7.5%    40      7.9%    38      2.0%    51
        7.5%    67
CV1907171       AB_ASSAYS_ON_DEMAND     X       69.31   43977679
forward LGD
TTCTTCTAAAGCATATAGTGAGGTTCTTGAGTTCCTAAAATTTGTTTCTTTAGAAATTTTTATATTATAGGTTTT
TATATTAGTTTTTTTTTTGAAGTTA[C/
G]GCTATCATTCAGTTCAACTCTGGGCCTACAGAAAATAGGGAGTGTTCAGATTAAATGCTACACTTGGCTCTCC
TTAGACAGTGCCTTGATTCACTGCCAG     C/G             extended_map    0.189
```

0.008 0.376 0.000 31.5% 178 92.3% 78 98.0% 51
92.5% 67 NA 0 37.0% 54 12.5% 32 34.8% 92
21.9% 32 NA 0 92.5% 40 92.1% 38
98.0% 51 92.5% 67
rs5952682 APPLERA_RESEQUENCING X 69.31 44012777
forward LGD
AGGGAAGCTCTCATTGCTGCAGGAAAAGAGATTATATGGCATGGGCGGACAAAAGAAGAACCAGCTCATTACTGT
AGCATTTGTGAAGTAAGTAATTGTT[C/
T]TTATCCACAGTTGTTTTATAAAGCCTCTTCCCTCTCCACTGTTGGTTTCTCTTTATTTTTAAAAAACTTTTTT
ATACTTTTATGTAATCCAGTTTATAGT C/T extended_map 0.19
0.008 0.379 0.000 31.2% 176 92.3% 78 98.0% 51
92.5% 67 NA 0 36.5% 52 12.5% 32 34.8% 92
20.0% 30 NA 0 92.5% 40 92.1% 38
98.0% 51 92.5% 67
rs764120 TSCAF X 70.2431 44633080 forward MIT
CTACAGCTGCACTGGATTCTGCAACTGTCATTTATAACATTATGTGGGTATCATGAATGAGGTTTAACACTTAAA
TATATGGCTACATTGAGGTGAAAGA[C/
G]GGACGGCAGGAACAATGGGAGGAAACAAGTGCATTAGAAAACACATGAATATTATCATGAATTTAAGTTAAAA
GGAGAGCACTGTTCTGAATAACAATGA C/G 1,897 0.082 0.109
0.002 0.382 57.4% 242 93.7% 158 62.5% 48 25.0% 64
68.2% 66 56.6% 53 67.7% 31 46.7% 92
62.1% 29 96.4% 84 97.2% 36 84.2% 38 62.5% 48
25.0% 64
rs2356419 AB_ASSAYS_ON_DEMAND X 72.9499 45880896
forward LGD
ATGTTAGTAAATTGGTTTATGGTTTTTGCTTTCTATATATTTTATTTCATACATGTATAGTAATTTCACTGTAAA
ACCAATTTTTATACATTTTAAAACA[A/
T]CTTAGCATAAATGTTTCCCTGTATACCATGTTTAAATGACTGGATGAAATACCATAATATTAATGTACCTTAA
TTATTCCTCTTTTGTGTGATAGGTCGG A/T 617 0.201 0.119
0.046 0.027 80.3% 178 17.3% 78 56.9% 51 34.8% 66
NA 0 77.8% 54 100.0% 32 75.0% 92
75.0% 32 NA 0 23.7% 40 10.5% 38 56.9% 51
34.8% 66
rs5905597 AB_ASSAYS_ON_DEMAND X 73.3859 46177797
forward LGD
TGGATGAGAGCAGAGGGTGACCACCAAAAGGTCACTGAACTCCCCCAAGAAAACTGTTGAGTCGCACACATGTCC
AGTTTTCCAGGTCCAAGACATACAA[A/
C]AGTACTGCTTTATAATAGCCACCAGGGGTGAAGCCAGGAAGAACCAGAGGGAAACAGGGTTTTCTCACATGAA
GGAAGAGCAGCCTGCATCACTTAATGG A/C 1,030 0.152 0.101
0.023 0.024 87.9% 174 36.4% 77 74.5% 51 55.2% 67
NA 0 94.2% 52 78.1% 32 87.8% 90
87.5% 32 NA 0 30.8% 39 42.1% 38 74.5% 51
55.2% 67
rs6609827 APPLERA_RESEQUENCING X 75.3324 47957486
reverse LGD
TCGCCGGGTGAGGGAGGGAGGCGCCGGTTGGCCAGGGACGTCTGCAGAGCGTGGGGGTAGACCCACAGGTCTTTG

AGGACCAGGACGGGGAACCTGAGGG[A/
G]GGTGCAAGGCCGGGAAGGGCGAAGTCAGTAGAGATGGACGGCCTGAGGGGCTTGGAAGGGGGGCCTTGAAGGA
GGTGGAGCCTAGTTATAAGGAGGGCCT A/G 2,095 0.246 0.005
0.351 0.000 65.9% 176 0.0% 78 2.0% 51 0.0% 67
NA 0 66.7% 54 66.7% 30 65.2% 92
68.8% 32 NA 0 0.0% 40 0.0% 38 2.0% 51
0.0% 67
rs955368 TSCAF X 75.79 49439345 reverse MIT
AATATCTGTACATACTTCCTGTACAGGGGCAGTCTATGTAGCTGGGGATGTAGACAGGTTTCCATTAACCATTTA
TTGGCCTGAAATCCTGATGGAGAAA[A/
G]TCCCAGAGACCCAGATGATTATCCTTGGCTTGCTCTTTACAAACTGTGCACTTCATGTTTAAGTCACTGAATG
CAATATCCACAGTACTATTTTAATTAT A/G 2,117 0.102 0.010
0.124 0.001 65.5% 235 100.0% 163 98.0% 51 100.0% 67
63.2% 57 64.8% 54 62.5% 32 68.5% 92
75.0% 32 100.0% 84 100.0% 40 100.0% 39 98.0% 51
100.0% 67
rs952422 TSCAF X 75.839 49560880 reverse MIT
AGAAGGACCTGAAGAGCAGTGTCATCTCTACCATGGGTCCCTTATGGGGAGTTGGGCAGCATTTGTAAGGCACAG
CAGTTGTAAGAAAGAAGTTCTGATA[C/
T]AAGTCACTGATACTGATTATCTACTGTATACTGGATCCTTTGTGCATTTGTTTGTTCATTAATTACAACTGTC
AAGTAGGTACTGTAATTGTATTCCTGT C/T extended_map 0.085
0.027 0.258 0.016 54.7% 245 14.2% 155 2.0% 51
4.5% 67 55.2% 67 61.1% 54 43.8% 32 54.3% 92
56.7% 30 13.0% 77 5.0% 40 26.3% 38
2.0% 51 4.5% 67
rs1977364 AB_ASSAYS_ON_DEMAND X 77.14 52194939
reverse MIT
CCTGGCCTGCTACGACTGCCCAGACGGCCTTGTCTGCCTTTCCCACATCAATGATCTCTGCAAGTGCTCCAGTAG
CCGGCAGTACCTGCGGTGAGCATGG[G/
T]CCTTTCTGGAGGAAGTGGGGCAAGAAGGAGGATGGAGAGCTGGGCCAGACATGCTCTTGCCTGCCCTCTTCCT
CCAGGTATCGGTATACCTTGGATGAGC G/T 2,119 0.243 0.066
0.185 0.114 35.6% 216 100.0% 131 85.7% 42 76.2% 63
36.1% 61 43.5% 46 33.3% 27 31.7% 82
20.0% 30 100.0% 80 100.0% 24 100.0% 27 85.7% 42
76.2% 63
rs7061449 AB_ASSAYS_ON_DEMAND X 78.3007 52986086
forward LGD
TGGGCTCTCATTTCCATCAAGGTCCAAGTCTGGTGAGTCGTCATCTGAGTCATTCAAGCAGGCACCAGTGATGTT
GAACTGTAGAAGTAGGAGACTCAGC[A/
G]GTTACCTGTCTGGGACTCCCATGGGAATCACGATGGCAAGTTCCCTCTGGTTTCACTGGTTCAGTTCACTGTC
AAAACCACCTGAGCCAAGGCCTTCTGC A/G 1,727 0.419 0.003
0.594 0.000 12.9% 178 99.4% 79 98.0% 51 100.0% 67
NA 0 7.4% 54 3.1% 32 19.6% 92
6.5% 31 NA 0 100.0% 40 98.7% 39 98.0% 51
100.0% 67
rs3830137 AB_ASSAYS_ON_DEMAND X 78.8725 53448624

reverse LGD
CCTCGAACCTTCCTGGTGTCAGGAAAGCAGCGCTCCCTCGAGCTCCAGGCCAGGTACTTATCCTTGCCTATGCCT
TTCCTCCAGCGCCTACCTCCCTTTT[C/
G]TTCAGATATGCTGAGGCATTCCAGGCCCAGAGATTGTTCCAGAGAAAGGATGGGCACCTTTCCCCAAAGATGC
AGGCTTGCTCTTCAGCGGTGGGGGTGA C/G 1,373 0.409 0.156
0.175 0.209 8.5% 176 93.6% 78 52.9% 51 44.6% 65
NA 0 1.9% 54 18.8% 32 8.9% 90
6.2% 32 NA 0 95.0% 40 92.1% 38 52.9% 51
44.6% 65
rs7886355 AB_ASSAYS_ON_DEMAND X 79.8286 61826039
forward LGD
GAAGGATTGCTTCTCACAACAGCCTAACATCTCCAATTCTTCACTGCTTCCAACATGCAGGAGACAGCAGGACAT
GAGCTGCTGTAGGAGGGATGAAGGG[A/
T]CAATCAGCGTGTCTCTCTTGGGCAAGCAGGGAGAGTGCTGGGTAAAGCTGTGCCCCAGAGAACCCCCTGTACT
GCTTGTCAGAGAAAAATCTAACTCTTT A/T 817 0.485 0.000
0.678 0.008 94.4% 178 3.8% 78 3.9% 51 0.0% 67
NA 0 100.0% 54 96.9% 32 90.2% 92
100.0% 32 NA 0 0.0% 40 7.9% 38 3.9% 51
0.0% 67
rs1414370 AB_ASSAYS_ON_DEMAND X 79.8811 62316546
forward LGD
ATGATATGAAATATCTGTGGTTTCTTCTGGTAACCAAATTACATGAACTGGTTATGCTACTGCCATTTGATACCT
GCATTCATCCTTGAAGGAAATAGTA[A/
C]ATTTTAGTTAGAGGTTAGGGGGAAAAAAGGTAATTGTCTATTCATCCAAGTTTCTGGACCCCTTGAATTCTAT
CTAAGGCCCTCTTGGTGTCTGTCAATC A/C 7 0.523 0.005
0.701 0.002 6.4% 172 100.0% 77 98.0% 51 98.5% 67
NA 0 0.0% 54 3.3% 30 11.4% 88
0.0% 32 NA 0 100.0% 39 100.0% 38 98.0% 51
98.5% 67
rs1813081 TSCAF X 79.9513 62973195 reverse MIT
TTGATGAGAACTCCATCACAGCTTCTAGCATTACTTGACCCTTACTCTAAATGCAAAAGAGAAGGCCACACCTTG
CTCAGAAAGACCTGATGTGTGGGGC[C/
T]AGTGCAAGGGGTCAAAAACTGAGGAGAGGCCAGAAGGCCAAAGCAGCTTGAGACTGGAGTGACTTGAGCCCAT
GGTCTTTCTGGGTCACACCCAGAAAAA C/T extended_map 0.132
0.000 0.176 0.000 93.1% 260 50.3% 199 50.0% 47
50.0% 67 98.8% 86 100.0% 54 78.1% 32 88.6% 88
93.8% 32 50.4% 125 50.0% 38 50.0% 36
50.0% 47 50.0% 67
rs926806 TSCAF X 80.01 63618954 forward MIT
TACAGAAGTAGAGACATGGGATGGGAATTCCTGATTTACAAAGTGACTCATAGTGGCTGAGCTGTCTCCTCTCTC
AGACTGTCAGCTCCATGAGGGCAGG[C/
T]GCTGTGACTGTCACCTCTTTCCTGTCCCCACCCAGTGCTACATTTGGGCTCCTCCCAGCAAGCTGGGCAGGCC
AAGCCCTCTGAGATACCAGTCATATGA C/T 252 0.511 0.003
0.718 0.001 7.7% 207 100.0% 135 100.0% 43 100.0% 65
1.9% 54 5.4% 37 4.2% 24 13.0% 92
18.8% 32 100.0% 71 100.0% 32 100.0% 32 100.0% 43

100.0% 65
rs913315 TSCAF X 80.2204 63943694 reverse MIT
TTCAGTGTGCCCCTAGCTGCAAGGATCACTGGTTTAAACATGGGAGAGGAGATCAGGAAGGGGAGGCCACAGGAG
TTACAGAGGACTCTGGAAATACAGA[A/
G]AGATCTGTGATTTACTCAGTGGGTATTTGATAGACTAAGAAGGCAAATTCAAGACAAAGAGAACTGGATTTAT
ATCTTAGCAGCAGGGATTGGAAAGACA A/G extended_map 0.222
0.000 0.369 0.005 32.3% 232 96.2% 159 98.0% 51
100.0% 65 20.7% 58 25.0% 52 56.2% 32 35.6% 90
21.9% 32 95.1% 81 94.9% 39 100.0% 39
98.0% 51 100.0% 65
CV3180015 AB_ASSAYS_ON_DEMAND X 80.3613 64034083
forward LGD
TTCCAGGTCTCTTTACTTTGCTCCAGACAGGTGATTAGGTGTGGCTTAGAGACAGCGAAACCGTTTTCCAGCTTC
TGAAGGGCCCCAGCATCCCCCTATG[C/
T]GTCTCTGAGTACCTGCTGATCACAGAGCAATAGAACCTGTGACAGAATCACCTGGGCCTCCTTTAACAGAAGA
CATGAAGCAGTGAAGACAACTCAACTA C/T extended_map 0.36
0.011 0.410 0.022 11.2% 178 92.3% 78 84.3% 51
100.0% 65 NA 0 1.9% 54 15.6% 32 15.2% 92
0.0% 32 NA 0 87.5% 40 97.4% 38
84.3% 51 100.0% 65
rs1325561 TSCAF X 80.559 64195904 forward MIT
GAATTCTTCTTCTTGGGCTTAAAATACCACTCATAACTGTTTTTGCTGAAAATTAAAAGGGAACTTTTTATCTCA
TATTTGAAACATAAGTCACAAGAAT[A/
G]ACTAACATTTATGCTTTAAATTATTAATCCTAGTTTTCAGAATTTTATTATTATAAAGATCACTGTACTTTAA
GTGATAAGATATTAAACTTACTCTGTG A/G extended_map 0.297 NA
NA NA 88.9% 45 13.2% 68 NA 0 NA
0 88.9% 45 NA 0 NA 0 NA 0
NA 0 13.2% 68 NA 0 NA 0 NA
0 NA 0
rs699863 AB_ASSAYS_ON_DEMAND X 80.6502 64319586
reverse MIT
GCTTAGATCATAATCATGCTTCTGTAGGTTAATGATTTTTTGGTTAGCTCTTAAGGTACTATAATTGATATACTT
GTATACAGGGTCCTTATAAAATACA[A/
G]CTCATACCTAAATCCAGATATTTAATAATTGGGCCCATTAAGTCCAATCACACATCACTATGACAGAGCAAAA
GCTTTTCAAAGGGTATAATTTTTCTAT A/G 1,913 0.428 0.030
0.763 0.046 1.6% 182 81.4% 113 100.0% 15 100.0% 25
3.3% 61 0.0% 44 0.0% 23 1.9% 54
0.0% 16 82.3% 79 64.7% 17 94.1% 17 100.0% 15
100.0% 25
rs1385699 TSCAF X 80.9247 64691777 forward MIT
TCACCTGGGCAAACAGTCCCCACAGACAGCATTAGAGGTAGCTGTGCAGTTGACCTTCTGAACACGATTGATGAC
AGCACAGGTGATGCAACTCTGACAT[C/
T]TGTGGTGGCCCCAGCTGCTTTTGTACCTGCGAGGAGGGCAGGCTGTGCAGTAGGCATCTCCACCCTCTCCATA
ACCACAATCCTGTAGACAGATGGGGGT C/T 2,071 0.397 0.016
0.678 0.066 3.4% 235 82.1% 151 93.6% 47 100.0% 63
0.0% 58 0.0% 54 6.5% 31 6.5% 92

0.0%	32	82.9%	76	81.6%	38	81.1%	37	93.6%	47
	100.0%	63
rs492933	AB_ASSAYS_ON_DEMAND	X	81.9856	66130635
forward MIT
CTGAAACTGAAACTGCCCATGCTACAACCTTGGCGAAGTATGGAGACACCTGTGAGGACCTTTTTACTTTTTGAA
AAATGGCAAGCCAAGGACTTAACAA[C/
T]TGCCAACTAAAACACAAATCCTTCACTTCACAAAATAAAATTAGATGATCATCTTAAAAACATTACCAAATGT
GCAAGCTGAATATGAAGAGAAAGCCTA	C/T	2,113	0.306	0.027
0.220	0.000	99.0%	245	37.3%	161	56.9%	51	35.8%	67
	99.3%	68	100.0%	53	100.0%	32	97.8%	92
100.0%	32	37.8%	82	35.0%	40	38.5%	39	56.9%	51
	35.8%	67
rs878213	TSCAF	X	82.1265	66321661	forward MIT
CAAATTTTCTTACAAAGGAAGAAGACATAACACAAATGGAAGTAAATATTTGTCATGAAAAGGTTAATCTACAAT
GCACTTAGACAGCTAATAATAAGTA[A/
G]AACATTTCCAAAGAAATAGGAACCTGGGATTGTCTCTTTTTAATAAATTACTTGGTATTATTTAAGCACTTCA
CTCCAAAAAGCTGATATTAAAAACAGA	A/G	2,118	0.335	0.001
0.464	0.016	3.4%	238	74.3%	152	78.0%	41	87.1%	62
	0.0%	67	0.0%	53	3.3%	30	8.0%	88
0.0%	32	76.8%	82	71.4%	35	71.4%	35	78.0%	41
	87.1%	62
rs3091304	AB_ASSAYS_ON_DEMAND	X	85.187	69709590
forward LGD
GGAAGGAGGGCCCCTACTGCTGTCTGCCAGGCCGGCCAGCCCGGGAAAAGGGCCATTTCCTCCTCCTCTCTGTCA
GAGTCGGCTGCTTCACAACCTCTCT[A/
G]GCAGCTCCTCCAAATGCCTCTTGGAGCACTACTCCAAAAGCTACTGGACTTGGCCGCCAGCCCCAGGCTGTTA
GGGGAGCAGGCTCAGCCAGGCCTGAGG	A/G	extended_map	0.251
0.379	0.000	0.113	87.5%	176	19.2%	78	90.2%	51
58.2%	67	NA	0	94.4%	54	96.9%	32	80.0%	90
	93.8%	32	NA	0	20.0%	40	18.4%	38
90.2%	51	58.2%	67
CV1215984	AB_ASSAYS_ON_DEMAND	X	85.77	70713865
forward LGD
CAAATCAACATTCTGGTGGTTACAATACAAATGAGACACTCCTCATTGACCATCCTGATTTTAACAATTCATCTG
AGAGCCAACAACACTTAAGAATGGG[C/
T]AAATGGTAAGGGATGATGACTGATAGATTTCCTCAAAGGCATTATCTTATTTGTCAGCATTATCTTATTTGTC
AGAAGTACTTAGCACAGTGTCTGATGG	C/T	1,063	0.255	0.096
0.124	0.159	25.6%	176	95.5%	78	67.3%	49	55.9%	59
	NA	0	18.5%	54	12.5%	32	34.4%	90
20.0%	30	NA	0	92.3%	39	98.7%	39	67.3%	49
	55.9%	59
rs5937831	AB_ASSAYS_ON_DEMAND	X	86.0363	72588953
forward LGD
ACTCTTGCGTATGTGATTCAGTCTTATCTCTGCTACCATTCAGTAGGTCCCCAGACCAGGCTCCTTCCTACCCTC
CCTAAAAAATTCAGATACCAGCCTC[A/
G]TCAGTGGCAGCTTCAGTCCTGCCTCCATACCCTTGCGGATATAATAACCACAGTCATAGTTTTTAACATTCCA

CTAGGACTTGTGTGGGCTCTCCAGTTC A/G extended_map 0.132
0.038 0.060 0.371 14.0% 178 62.7% 79 39.2% 51
0.0% 67 NA 0 7.4% 54 15.6% 32 17.4% 92
28.1% 32 NA 0 55.0% 40 70.5% 39
39.2% 51 0.0% 67
rs2209549 AB_ASSAYS_ON_DEMAND X 86.2801 72825420
forward LGD
AGCTGTTGTGGCCTTCAGACTTTTCCAAAATTTTAACCCTTACACAATGGAACAAGAAAATCTTTATTTTGCCTT
GTTTAGCTGTTCATGTTTCCACACA[A/
G]GACAGTAGAGTCTAAAACTTTAAAAGAACGTGTGTGTGTGTATATATATATATACATATATATACACACACAC
ACACACACACAAACATATACATATATA A/G extended_map 0.274
0.143 0.076 0.627 86.0% 172 14.1% 78 56.9% 51
100.0% 67 NA 0 88.5% 52 86.7% 30 84.4% 90
87.5% 32 NA 0 12.5% 40 15.8% 38
56.9% 51 100.0% 67
rs5981317 APPLERA_RESEQUENCING X 86.5705 73156135
forward LGD
TAGCTGTCTGTGGTGTGATCTGAAGGGGAGATGCCATCACTTTGTCCTAGCAGGGAAGAGAAAAAAAAAGCCACT
TTACGCACTGCCTAGAGTACAGCTA[C/
T]GAAGACAATTTTCTAATTCACAGAAAGAAAAAGGATATAATGGAAAAGAAGGAGGTTTATAAGTGGACTTAGA
CCACTTCCAAGCATGCATTTAAAGATT C/T 102 0.332 0.178
0.088 0.496 89.8% 177 12.2% 74 60.0% 50 92.1% 63
NA 0 92.5% 53 96.9% 32 85.9% 92
93.8% 32 NA 0 10.8% 37 13.5% 37 60.0% 50
92.1% 63
rs4892539 AB_ASSAYS_ON_DEMAND X 86.5707 73165465
forward LGD
AGTTAGAATTTTTTCTAGTATACCATAGCCACATTAGCAGCTTATAAGGCAGGGACAATATATTTCACTTATTTT
GCACCCTAAAATGGATGCTCTCAAA[A/
C]GCACTGTTTAAACCAGCTATAGCTGTAAAGTATATCAAAAGTAATTTAAATAAATTTGAGCAGATTCCAGGTT
TTCCATTTAAGGATACAGTCCCTCACC A/C extended_map 0.275
0.248 0.032 0.566 76.7% 176 4.2% 72 56.9% 51
88.3% 60 NA 0 80.8% 52 62.5% 32 79.3% 92
65.6% 32 NA 0 2.7% 37 5.7% 35
56.9% 51 88.3% 60
rs2301862 AB_ASSAYS_ON_DEMAND X 86.5935 74261655
forward LGD
ACTGTGGTTAAGTAAGCCAACTGCCAAATTGGTGGAAGGGATTGTAATAATATATTATGGCCTTAAACTGTGTCA
TGATTTCATCCAGGATGTAGACTGT[C/
T]GACACTTCCTGAAGAGATCTTCTGCCCTGAGAACCATAAAGGTTTTCTGGTGGGGATGGGGAAGATAGAAGTA
TAGTAAATTACAGACTAGCATCTGTAT C/T 1,263 0.259 0.055
0.146 0.234 9.0% 178 76.3% 76 49.0% 51 19.4% 67
NA 0 3.7% 54 3.1% 32 14.1% 92
10.0% 30 NA 0 71.1% 38 81.6% 38 49.0% 51
19.4% 67
rs234256 TSCAF X 86.6052 74820272 reverse MIT

TTCCAACCAAAAACAGTTTAAAACCTCCCTGGGACACAGCTCCCAAGGGGAGGGGTGGGCCACCATCTTTGCTGT
TTTGCCTGCCTTGGCTGTTTTTGCC[G/
T]TTGTGCTTTGGAGAGTCCAAAGCAACTGGGGGCTGGAGTGGAACCCCAGCACACATAGATGCTCTACAAAAAT
GCGATTAGGCTGAATATTTATTTTATT	G/T	656	0.304	0.297
0.033	0.528	75.1%	245	1.2%	162	54.9%	51	79.1%	67
	73.1%	67	81.5%	54	90.6%	32	67.4%	92
84.4%	32	1.2%	84	2.5%	40	0.0%	38	54.9%	51
	79.1%	67
rs2022113	TSCAF	X	86.6053	74826954	reverse	MIT
ATTATCTTTTTGAATAAACATTCTAGCCCTCTCTTTTTCTCTATATATTCTCTTTAATGCCAACAACCCTTAGAT
TTGCTTTCTTGAGGCTATTTTCCAG[A/
T]TCCCGTAGGTGTGCTTTATTTTTAAAACTTTTTTCTTTTGTCTCCTCTGACTAAAAACTTTCAAATAGCCTGA
CTTCATGCTCAGTATTTCTACTGTTAA	A/T	previously called rs2022113 in
dbSNP; our genotyping validated it but dbSNP entry no longer exists
extended_map	0.303	0.305	0.029	0.525	75.1%	237	1.3%	156
	56.2%	48	79.1%	67	73.1%	67	81.5%	54
90.0%	30	67.4%	86	83.9%	31	1.2%	84	2.9%	35
	0.0%	37	56.2%	48	79.1%	67
rs2268538	AB_ASSAYS_ON_DEMAND	X	86.6322	76117543
forward LGD
TCTCTAGGGAAACTGGCTTGAGGAAGCTAGCTGGGGGCGGGATTGGAGGAGCTGCTTAACTTTTCTCCCTCTGGA
CCTAATAAAGTTTCATTTAGCACAC[A/
G]CTAACCCAAAGCCTTGAAATGATTGGCTAGTCCTGTTTTGCTGATGGAAAATGACCTGTTCAGGGTTACTGAA
CTACCAAGTTGGTGGCAGAGCTAGGAG	A/G	1,590	0.228	0.021
0.181	0.018	8.0%	174	69.7%	76	52.9%	51	53.8%	65
	NA	0	3.7%	54	0.0%	28	13.0%	92
0.0%	32	NA	0	75.0%	40	63.9%	36	52.9%	51
	53.8%	65
rs1015736	AB_ASSAYS_ON_DEMAND	X	88.0769	84460541
forward MIT
AAAGAAAAGGAAATGGAGCTTTGTTTTTTAAATTATTGGTGGCTTTTACAGATAGTTTGACAGGAGGAACCATCC
AGGCTGTAATTGTGGTAAGGAATAC[A/
C]TGGTTGAATTTCACTTTTTATGTCTTTATTTTGGAATTCTGTAGCTAGGTAGTTACACTGTTATGTAAAATTA
GGCTAGGAAATTAAGCTTCTACTTAAT	A/C	400	0.305	0.005
0.540	0.042	20.4%	240	95.7%	162	100.0%	51	80.6%	67
	25.8%	66	15.7%	51	22.6%	31	18.5%	92
15.6%	32	96.4%	84	100.0%	39	89.7%	39	100.0%	51
	80.6%	67
rs1198718	TSCAF	X	94.5743	91244260	forward	MIT
AAAGGAAAAGAACATAAATTTGCTGAGCACACAACAGTTTCCCTGTCACAGATAGGTTATTATTCTATAAGAACA
AGATTCAGATTTAGGATAAAGCTCT[C/
G]TGCATATAGAAGCTACTGAATGGTAAATTGATAAAGTTAATCTTTAATATTTTATTTCTAGAACAACAGGCTC
TAGAAGAGCTACAATTACTGGCCAGAA	C/G	119	0.326	0.110
0.158	0.064	85.5%	235	8.0%	150	40.8%	49	31.3%	67
	86.4%	59	88.9%	54	81.2%	32	84.4%	90
81.2%	32	5.6%	71	12.5%	40	7.7%	39	40.8%	49

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        31.3%   67
rs764581        AB_ASSAYS_ON_DEMAND     X       96.9428 94212406
reverse MIT
AATCAATGCCAGTCTTTTATCTCAAAGCTAAAATTAACAAAGTCTTACCAATCCTTTAACATGTCACAAAAATGA
AAGCCCTAATATGTGCCTTCATTAA[C/
T]GCTCAGTGTATGTTATTAGCACAACAGATCATGGTCTACCAATTACCTTTGGAAATAAAGAAAACTTCTCTTT
TCATTAGCCTCTTTATAAAATGTCTTT     C/T             1,335   0.316   0.055
0.678   0.094   97.5%   242     30.8%   159     7.8%    51      67.2%   67
        100.0%  66      100.0%  54      100.0%  30      93.5%   92
100.0%  32      30.9%   81      30.8%   39      30.8%   39      7.8%    51
        67.2%   67
rs1884437       TSCAF   X       100.2097        97380613        forward MIT

CACAATGTGGCTGCAAACCACAATAAGTCCTTCTGGTGGCTAATGCACTAATGGGTTTAGGGCAGAGCCTCTTTG
CCCTGTCCAGATTTGACAATTCTGT[C/
T]GTTTGTCTGCCTTCTGTTGACAAGATACTGGAATTCTGTGTAGGGAGGGAGAGTTGGGCCCTGCCCTTTATGC
AAGCCCAGTAGGCACAGACACACTTTC     C/T             2,039   0.143   0.038
0.110   0.058   46.3%   244     0.6%    161     10.2%   49      14.9%   67
        43.9%   66      38.9%   54      68.8%   32      44.6%   92
65.6%   32      0.0%    84      2.6%    39      0.0%    38      10.2%   49
        14.9%   67
rs1221435       TSCAF   X       100.5341        97695048        reverse MIT

AGCAGTACTTGGATTCACAATAGCTCCATTTAGTGGTGGTCCATTTAAATTCCCATTATATTAAGACACTTGGGA
AGCTTTGTACATCAGGTTTCTGGGA[A/
G]CATTTATTTTTTCCAGGGATATCATAGGGGACAGAGATATAGGAACAGAGCTTAAGCCAAGGCACAGGTAGGT
TCATTTGGACTCCATTGCATCCACCTG     A/G             426     0.419   0.022
0.751   0.009   6.5%    246     90.7%   161     100.0%  51      83.6%   67
        0.0%    68      1.9%    54      0.0%    32      16.3%   92
3.1%    32      91.7%   84      89.7%   39      89.5%   38      100.0%  51
        83.6%   67
rs1020903       TSCAF   X       100.7716        97925251        reverse MIT

TATTGCGCCTTTGAGAAGACAATGCATTTCTGAACTTGACAAAAGGCAAACGTCTCAGTTTCATTTGAGGCTTAA
ATTAGATGGGATTTCAAATGCTTTC[A/
G]ATGGTAATACCATTTAAAAAACAAGATGGATGGTTTTTTCTTTCATGAAAAGGGTAAAACTCTGTTTCTTTAT
TTTCACTTAATTCTAATGCCATCTGAC     A/G             9       0.517   NA      NA
        NA      0.0%    52      90.3%   72      NA      0       NA      0
        0.0%    52      NA      0       NA      0       NA      0       NA
        0       90.3%   72      NA      0       NA      0       NA      0
        NA      0
rs736637        TSCAF   X       104.07  103262027       forward MIT
GTGGTACTGGAGGCATGTTCATAAAGATGCCTGAGTAAGCCAATCCAGCCTGTCTGAGGAATACAAAGGATATGT
GTAAGAGGACTGTATATTCTCTATC[C/
T]GAACTGCATCAGTTATCAAATTGAGATAAGGAGAGGGGCTACACTTTTAGAAGGTTCTTCTGACACTATATAA
ATAGGATTTAGACATTAGAGCAGAATA     C/T             extended_map    0.157
```

0.001 0.287 0.000 46.3% 242 97.5% 160 100.0% 51
98.5% 67 44.6% 65 51.9% 54 45.2% 31 44.6% 92
58.1% 31 96.4% 84 97.4% 39 100.0% 37
100.0% 51 98.5% 67
rs1321385 AB_ASSAYS_ON_DEMAND X 104.07 103330862
forward LGD
TAAACCACTGTCTCCTTTAGTGGCTTCTTCCAAGACCAGGACCTACAATTTGTTCCCATTTGCTTGAAAAAAAAA
AATCACTAATATTGGTGGTATTTGG[G/
T]AGTGAACTTACCCTCTAGTCGATCTTGCTGTTTTCAAGGATGATGCTCAGCATGACATACTCTGGGCTTTTAA
AAGAGCCTTTCTTTGTATGTATCAACA G/T 1,337 0.44 0.007
0.722 0.005 7.9% 178 95.5% 78 100.0% 51 91.0% 67
NA 0 7.4% 54 3.1% 32 9.8% 92
3.1% 32 NA 0 94.9% 39 96.2% 39 100.0% 51
91.0% 67
rs768312 TSCAF X 105.6491 108435355 reverse MIT

GCCTAGAGAAAGGGTCCAGACAGAGAATTCTGAGATTCCCAAGAAGTGATATCTGAGCTGCATCCTGAAGGCCAC
AGACAAGGCACAGAAAGTCACTCCA[A/
G]AAAGAGGGAACAGGATGTACAGAATCATGGAACATCTACTGTGTGCCAGGTGGGGATCCTAGCTCTCAGACTG
GTAGAGAAAGTAGACAACTAACCAGAG A/G 1,867 0.269 0.001
0.424 0.000 69.4% 242 0.6% 159 0.0% 48 0.0% 67
74.2% 66 70.4% 54 62.5% 32 67.8% 90
37.5% 32 1.2% 82 0.0% 38 0.0% 39 0.0% 48
0.0% 67
rs197036 AB_ASSAYS_ON_DEMAND X 105.966 108751675
reverse MIT
TCTCTACTCATGGAACACATGGCAGGTAGAAAGCTGTTGTTTTACAAATGACGTGGACCTGTCTTGAGGCCCAGA
TCAGCTGATCTGTCCTCATGTATAG[C/
G]AACATAAAATAGAAGAACCACAGCACTAGGGCCAGAGCCAGGGAGATGCATTAGAAAGGAATTAACTTGGGAG
GATCTGAATTAGGGAACAAAAGTACTA C/G 464 0.369 0.043
0.727 0.097 97.5% 237 23.6% 161 4.7% 43 0.0% 67
98.4% 63 100.0% 54 100.0% 28 94.6% 92
100.0% 31 19.0% 84 30.8% 39 26.3% 38 4.7% 43
0.0% 67
rs992864 AB_ASSAYS_ON_DEMAND X 106.4798 109264554
forward MIT
GTCATTCATCCCAGTGTTTTATGCCTCTGCTTAAAACCTACCTAAACACTCTTCACTCTTTTGGGAAATTTACTT
ACCTCTTAGCTTTTGGTTCCAGGAT[A/
G]AATATCACTAATAGGCGTTAGTCTGCTCAATTAAATTCAATAAATATGAATCAATCTCTTACTATATGTAAGC
ATCGTGATATGAAATACGGGAAATAAA A/G 14 0.455 0.009
0.747 0.012 6.7% 240 94.3% 159 100.0% 51 100.0% 67
6.2% 65 3.7% 54 6.9% 29 8.7% 92
3.1% 32 94.0% 84 94.7% 38 94.6% 37 100.0% 51
100.0% 67
rs647000 AB_ASSAYS_ON_DEMAND X 109.3162 110819634
forward LGD

CTGCTAAGATAGATTGGAGTCAGATCATAAAATGCTTTTAATGCCAGGCATTTGGACTTTATCCCATAGTCAATG
GGAAACCAGTATAGGTTTTTGAACA[C/
G]AAAATCATAATCAGAGTTGTGTTTTATGACACCCCTGCAAATCTCATAAAATGGGGAAAATAAACTCAGAGAG
AAAGGGTCTTCCCCTGAATCAGCCACA C/G 987 0.268 0.035
0.216 0.006 83.3% 174 11.5% 78 29.4% 51 17.9% 67
NA 0 87.0% 54 93.3% 30 77.8% 90
100.0% 32 NA 0 15.0% 40 7.9% 38 29.4% 51
17.9% 67
rs5988008 AB_ASSAYS_ON_DEMAND X 114.85 113722560
reverse LGD
CTGACCCTGTGATTCGCCCGCCTTGGCCTCCCAAAGTCCAGGGATTAAATGTGTGAGCCACCTCGCCCAGGCAAG
TCCCTGAAAATTTTGAGGGCTTGTC[C/
T]TTCCACGTTGTTAAGTGCATATATGGAAATGAAGTATATTGCCGTTTTTCTTTCTTTTTTTAAAAGAAGGGCT
CTGGCTCTGATGCCCAAGATGGAGTGC C/T 1,111 0.232 0.021
0.490 0.010 15.2% 178 81.8% 74 94.1% 51 71.6% 67
NA 0 7.4% 54 18.8% 32 18.5% 92
34.4% 32 NA 0 81.1% 37 82.4% 37 94.1% 51
71.6% 67
rs736818 AB_ASSAYS_ON_DEMAND X 115.8729 115428165
forward MIT
ACTACTAAAAACTGTCTGCAGCATTGTTTGGTAGGAGCAGACAAGCAGCTCCTACTCAAGGGATTCTTTTGCTAG
TTTTTAAAGACTGAACACAAAACAA[C/
T]TAGGTTACAAGTTCAAGACTTCAGAGCCCATATCTCACACTCATTCTTCTTCATCTTGGTTTCCACAGCTGTA
ACTGAAGGACTCCCTTGTTTGGCTCTT C/T 1,756 0.205 0.182
0.009 0.253 1.3% 224 48.3% 145 4.1% 49 0.0% 63
0.0% 55 0.0% 53 0.0% 30 3.5% 86
0.0% 28 50.0% 72 55.9% 34 38.5% 39 4.1% 49
0.0% 63
rs2430207 AB_ASSAYS_ON_DEMAND X 116.2569 115848433
forward LGD
ACCTGCCATAATAGGAGCCAGACAATGTCTAGAAAGTTTGGTAACCAGATCTGAGATCAGAACTTTCCTGGATGC
ACCTCCAAGTTTAGAAATGCCACTT[C/
T]TGAGGCCATAACTTGCTGAAGAATCAAACATAATGGTCAATGACTGAGTAGCATAGACAGTCCTCACCTGTTA
TTTAACTGTTCTTATTTCACTCAGTAG C/T 630 0.265 0.007
0.488 0.022 79.2% 178 7.6% 79 2.0% 49 0.0% 67
NA 0 81.5% 54 78.1% 32 78.3% 92
84.4% 32 NA 0 10.0% 40 5.1% 39 2.0% 49
0.0% 67
rs714749 TSCAF X 116.4317 116034634 forward MIT

CAATCTGTGGGCTGCAATGTTGATGGCCGCCACCACTGTCATGACATCATAGAGGACATCAACAGTGGTACAGTG
GAATGCCCAGCTAGTTAAGAAGTAC[A/
G]AAGGAAAATATTTCAATAAAGAATCATTTGACAACCAAAAAAAAGGAGGGGGGAGGGCAGATAGTACTCTTGC
TCAGACCTTAACAAGATCTAGAAAAAT A/G 936 0.233 0.003
0.419 0.014 27.2% 235 93.8% 161 98.0% 51 100.0% 67
20.0% 60 24.1% 54 20.7% 29 35.9% 92

15.6%	32	94.0%	84	89.7%	39	97.4%	38	98.0%	51
	100.0%	67
rs2380316	AB_ASSAYS_ON_DEMAND	X	116.8209	116288500
	forward LGD
GAATGTATTAAAGAACCAAAATGATGGTAACGATCTTATCCATCAAGGAATGAAATTTAGGGAACATTAAGTGCC
ATTTAAGAAGGCATAAAAGTAGATA[C/
T]TTTAGAACTATTACCATCTGAAATAATTAAAATGTCTGTTTTCTTGGCTTTTAAAGTGGTAGTAAACTTATAA
TTATCCAGAAAATACAGCTTCAGAGTT	C/T	43	0.398	0.429
0.008	0.050	97.7%	172	19.7%	76	94.1%	51	44.8%	67
	NA	0	98.0%	50	96.9%	32	97.8%	90
93.8%	32	NA	0	17.5%	40	22.2%	36	94.1%	51
	44.8%	67
rs708463	TSCAF	X	119.0764	117759807	forward MIT

TGGCTGCCTGGGTTGCACTTGGCCCCTGCACGTCACTCCACGTTGCGCGCTCCGCCGGGAGTCGAAGCAAAAGAC
ACTGACGGAAGAGGACTGCGAGAGC[C/
G]CGAGCGCCCGTCTCTCTTGTGCCCTAGCAGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCT
CGCGGGCGGCCGCGGGGCTTGCTGGGA	C/G	extended_map	0.224
0.187	0.012	0.177	100.0%	232	54.7%	148	97.9%	47
96.7%	61	100.0%	67	100.0%	49	100.0%	32	100.0%	84
	100.0%	31	50.0%	82	68.8%	32	52.9%	34
97.9%	47	96.7%	61
rs194302	AB_ASSAYS_ON_DEMAND	X	119.1686	117819995
	forward MIT
ACCTGGAGTAGAAATAAGGGAATAGAGTCAGATAAGCTTGGCAAGGTAAGTTAGAACCAGACTTTTTGGTAGGTA
CTTTAGATATTATAAACACACTGCT[A/
G]CTTACTTCAAAGGTTTATCATCTTGAGAGGTAAGTGTTTTTGGAGCCTCTGGGCCAATTAAATCTGATGGTTC
TTCAGCCTCTGCATGAAAGATATTAAG	A/G	1,654	0.231	0.010
0.194	0.010	1.3%	240	52.1%	163	40.0%	50	64.2%	67
	0.0%	62	0.0%	54	0.0%	32	3.3%	92
0.0%	32	50.0%	84	52.5%	40	56.4%	39	40.0%	50
	64.2%	67
rs7881045	AB_ASSAYS_ON_DEMAND	X	119.2704	117886391
	forward LGD
ATGAAATACACTGATGAATGTTTCATACCGGTTTGAAAATGTCTATCCTCTCAACCGCTCCAGCATATTTTTCTG
TGATACCTAGCCCCAGGCTTGCATT[A/
T]GGGATGGCTGTCCTTGGTGTGCAGAATTTAAAAGAGCACTAAAACACTCAGGATTCAAGATATCTCTTTCTAT
TTAACTGTCCATCTATCTATTTAATTT	A/T	extended_map	0.205
0.121	0.056	0.061	71.0%	176	7.6%	79	43.1%	51
30.8%	65	NA	0	88.9%	54	65.6%	32	62.2%	90
	62.5%	32	NA	0	10.0%	40	5.1%	39
43.1%	51	30.8%	65
rs2192257	AB_ASSAYS_ON_DEMAND	X	119.86	118271005
forward LGD
TAATTTAAATAGTTCCCCATACCGTGCTGCATCAGGATTTGATTTGTATGCCATCTGTTGCAATGCACTTGGTTT
TACTTGCTTGTCAATGAGAAATACT[A/

G]CTTCCAAATGTCTTCATGGTTTTGTCCATACTGGACTTTGGGTTATGATTTTTCACCTTCTACTCCCCTGAAA
TCATTATCCTAAAGTAACTTTTTTTAG A/G 1,376 0.203 0.095
0.059 0.050 12.9% 178 74.1% 79 37.3% 51 47.8% 67
NA 0 18.5% 54 15.6% 32 8.7% 92
15.6% 32 NA 0 80.0% 40 67.9% 39 37.3% 51
47.8% 67
rs766843 TSCAF X 123.4111 120758325 forward MIT

CTGGGGATAAGCAATTGGTAGAGAAAATAAAATATATTTTCTTATAAAATCCAGAAGTTGAGGGAAGAAAGAAAA
AGAAAGACCTGACACTGTGTGGCAA[G/
T]GTAGAAAGTTTATTCTCAGTGTGTTCCCCATTCCCACATTAAATCCCTTTTCAAGGATTAAACTCTATTCAGA
AGTTCATTATCTACCTCTTCTTAGCTT G/T 1,853 0.078 0.208
0.019 0.207 84.6% 259 48.1% 206 96.0% 50 95.5% 67
87.8% 82 73.6% 53 100.0% 32 82.6% 92
90.6% 32 46.9% 128 43.6% 39 56.4% 39 96.0% 50
95.5% 67
rs916280 AB_ASSAYS_ON_DEMAND X 123.7297 121047871
forward LGD
AATAAATGAACCTCAAGTCCCCAGCCTCCCCTACCTCAGCAACTTGTCAAGAGAGTTGGAGATTTTTTCCATCGT
TATTTTTCAAAACCAATTTCCTAAC[A/
T]GTTGCATGACAATCAGCAGTCAAACTAATTGGAATGTTACTTTAACATTTCTTCCTCCTTTTAGCATTTTTTG
TGCTGTGTTGTGGGGAGGAAGGGATGT A/T 529 0.179 0.042
0.114 0.007 70.0% 170 10.3% 78 29.8% 47 4.6% 65
NA 0 73.6% 53 70.4% 27 67.8% 90
71.9% 32 NA 0 10.0% 40 10.5% 38 29.8% 47
4.6% 65
rs3913241 AB_ASSAYS_ON_DEMAND X 124.9816 121931182
forward LGD
AGTGTGGTAGTTACTGTGAATGGACAGGTAAGAAATTGGGTGCACGAGTCCTCTTTGTTTTCATTACTTGGGATT
CCAAACACTACTTGATAATTCATTA[G/
T]AAAGAGGCTGCAATCAGATACTTGTTTCTGGATCTGCAAATACACAGTTTCTTCAGCTCAAAACAATACATGA
GTTCTATGACTTTTGTTCATAGAACTT G/T 1,160 0.101 0.001
0.171 0.036 83.0% 176 39.7% 78 35.3% 51 62.7% 67
NA 0 79.6% 54 93.8% 32 81.1% 90
78.1% 32 NA 0 35.0% 40 44.7% 38 35.3% 51
62.7% 67
rs2051576 TSCAF X 126.3683 122336685 reverse MIT

AAACGGAAATACAGAGCCTCTTGTTTAAAAAGTATTACAAACTTCAAGACAGTGACTGCAGAGCATTAAATCAAG
TGTGGGGCCCTCCTAAGCATGGGTC[A/
G]TATCCATGAAGATGGCCCTGATCCCTGTTATAAGCTTTGGTAGAGTGGAGGACAAAGAGAAGCCAGCCTGCAA
TTTAAAATTGGCCACAAATGATCCACA A/G 1,696 0.148 NA NA
NA 22.9% 83 77.7% 121 NA 0 NA 0
22.9% 83 NA 0 NA 0 NA 0 NA
0 77.7% 121 NA 0 NA 0 NA 0
NA 0

rs201638 AB_ASSAYS_ON_DEMAND X 130.57 125078761
reverse MIT
ACAGAGCCATAGGTAAATGATATCAACTTGTTTCAAAGAACAGCTGAACCAGTAGCTGACAGGTTTGGCCTTAAA
CTCACCTTTAAGCTCTATTTGTTAG[A/
T]GTCTCATTACAGCAAAAGGGATTAATAGTGGTTTGATTTTTGCTATAACTCAAAGAAATCAACCCCAGTGTCT
GAAAGAAATAATATGCCAAGATTTTTA A/T 1,085 0.212 0.153
0.024 0.047 4.8% 166 60.3% 73 14.9% 47 34.3% 67
NA 0 3.8% 52 8.3% 24 4.4% 90
10.0% 30 NA 0 54.1% 37 66.7% 36 14.9% 47
34.3% 67
rs766751 TSCAF X 130.5936 125374309 reverse MIT

TTAGAAAACATGTGTTTAAAAACCTTAACAGGTTCCTTAACTAATTATGTCTTAGAGCCATGCTAAACTACATCA
CAGATTTCTAAATGAAGCTGTAGTT[C/
T]GCATTTTTTTAAATTTATTCTATCACAGAATTGTGTGTGTGTGTGTGCACACCTGTGTGTGTCATGTTGTG
GAACAGTATTCCCTGAAACATGTTTTA C/T 609 0.297 NA NA
NA 100.0% 62 37.8% 82 NA 0 NA 0
100.0% 62 NA 0 NA 0 NA 0 NA
0 37.8% 82 NA 0 NA 0 NA 0
NA 0
rs2340242 AB_ASSAYS_ON_DEMAND X 130.9306 126271518
forward LGD
AGACATAGCCCTTACTTTAAGAGAGATCAAAGTTCAGTAAGAGACAAAGACTCAACAGACATTTACTATACAGTT
TTGTGGGTGTTTTGATGGGGAAAAA[A/
T]TGCAGAGTGCCCTGAGATCACACAGAAAGGACATTCAATTCCTGATCTATATGAGGAGTGGGCAAAGACCAAG
AACCCCTTCACAGAAAAAATAACACTT A/T 42 0.393 0.059
0.269 0.006 95.5% 178 15.2% 79 41.2% 51 22.4% 67
NA 0 96.3% 54 100.0% 32 93.5% 92
100.0% 32 NA 0 15.0% 40 15.4% 39 41.2% 51
22.4% 67
rs909657 TSCAF X 131.388 127489190 forward MIT
TCTGACTCAGCCTGCCTCATGCTGTGACCAGATTTAGAGACCTGAGACCAGATTTAGAGACCAATAAATATTGCA
TGAATATTTGAGAATGAATAAATGA[A/
G]ACAATGGTCACCTTCAGCAGCATGTCTGTGCACCAGGAGGGGGGTGGGCTGTTGCAGTTGGTACCTCCCCACC
AATGCCCTACCTCCTGAAATTCCCAGA A/G 1,419 0.32 0.068
0.211 0.307 85.7% 244 8.8% 159 33.3% 51 70.8% 65
92.4% 66 87.0% 54 81.2% 32 81.5% 92
87.5% 32 8.5% 82 12.8% 39 5.3% 38 33.3% 51
70.8% 65
rs5933151 AB_ASSAYS_ON_DEMAND X 134.6196 130222046
forward LGD
GCAACACACGGGAGGGTAGAGGATTTATGCAACCATAACATTTACGATGGAATGAGGTGTGGTAGGTATCACAGC
AACAAGCCATGTGACATCATAACGA[C/
T]GAATACATCAGGGTGTTCATGCAATCACAGTCAGTGCAAAGCAACACAGCATGGAAGGGGGGAAAATTAAAAA
GAGAAAAGGGGAAAGCCAATTATAGTT C/T 2,081 0.144 0.061
0.451 0.014 15.9% 176 67.9% 78 92.2% 51 80.6% 67

NA 0 22.2% 54 9.4% 32 14.4% 90
18.8% 32 NA 0 62.5% 40 73.7% 38 92.2% 51
80.6% 67
rs242521 TSCAF X 135.3239 130936703 forward MIT

AAGCACACTACAAATATCTAACTCTCAATAACTATTACAAATGAAAAGCAAATTGATCTTACAATAGTTTGTGGA
AGAAGTCGACACCCCTGACACACCA[A/
G]CGCTCCACCACGTGCCCACTTAACGATCGAAAACAAAATGGGCCCCGCCACAGGGGCAGGCTTCTTTTATTGC
CAGTGTATGGCTCCACCCTCAAAGATC A/G 2,122 0.188 0.002
0.290 0.001 54.1% 242 0.0% 161 0.0% 51 0.0% 67
46.2% 65 60.4% 53 62.5% 32 53.3% 92
34.4% 32 0.0% 83 0.0% 40 0.0% 38 0.0% 51
0.0% 67
rs242143 TSCAF X 135.3779 130991484 forward MIT

CTATTGAGTTGGAAACTGTGGTTGGGGCCCAGCAATCTATTTTAGTAAGCCCTCCAGGCGATTCAGATGCAGGCT
TAAGTCTGAGAACCACTGTTGTAGG[C/
T]GGTTGTGGTTGGCCCCGTTCTTAGAGTAGAATTCTGGGTCTTTAAAATGTATTTGTTTATTTCATTTTAGAGA
TGGGGGTCTTGCCATGTTGCCCAGGCT C/T extended_map 0.094 NA
NA NA 10.4% 67 49.4% 81 NA 0 NA
0 10.4% 67 NA 0 NA 0 NA 0
NA 0 49.4% 81 NA 0 NA 0 NA
0 NA 0
rs926228 TSCAF X 135.8082 131427991 forward MIT

TTTTGGTAAAACTGCCATAATTTATTCCTGGACTTGTTACCAACAGGGTAGTATAAATAGATATATTACTGTATC
TAATGTATTCCGAGTTCTGCATAGG[A/
T]CCTAACAACTTTCCCATTTAAAAAAACAAAAAACAAACAAACAAACAAAAAAACCCAGGACATTTCATTTCCC
TACAAGCTTTCTACTCACTTTTCAGCA A/T 504 0.335 NA NA
NA 8.2% 61 86.4% 81 NA 0 NA 0
8.2% 61 NA 0 NA 0 NA 0 NA
0 86.4% 81 NA 0 NA 0 NA 0
NA 0
rs1908816 AB_ASSAYS_ON_DEMAND X 136.0631 131686662
reverse MIT
GTTGTCTTTATCTTGTCTCATATGCATATACTCAGTTATATGTATGTATACATATAATTTGATTGGATAAATCCA
CCTAAATTAACTACTCTTGGCTTTT[C/
T]CTTTGCCATGTGGCTGGAGGGGTCACATATTTGAGATTTCAAAATAAAGAACATTTAAGGTATCAGTGGAAAA
AACTTAGGAAAAAAATCTGTTATCTGT C/T 22 0.442 0.008
0.685 0.232 97.8% 229 16.0% 187 7.8% 51 71.6% 67
100.0% 51 98.1% 54 100.0% 32 95.7% 92
100.0% 32 17.6% 108 15.0% 40 12.8% 39 7.8% 51
71.6% 67
rs883005 TSCAF X 138.6741 133470814 forward MIT

TGACTGGCTAGCCAGATTCTCTATTGTTCCTGTGGAGTACAGCAATAAAAAGGACAACTTGTATACCTTTCCAAG

TTAAGTCAAAGGCCAAAGTTAGAGC[C/
G]TTGCATGCGTTGGTAAATGCACTGAGTTCTTCTGAGAAGTATCTGCGGTTTTGCTTTTACTGGATTAGATCAC
TCATTAAGAATGGAACATGTATTCTAA C/G 1,995 0.091 0.053
0.028 0.058 54.9% 233 93.8% 160 74.5% 51 73.1% 67
61.4% 57 59.3% 54 53.3% 30 48.9% 92
12.9% 31 92.7% 82 100.0% 40 89.5% 38 74.5% 51
73.1% 67
rs5929715 AB_ASSAYS_ON_DEMAND X 139.0358 133863358
forward LGD
TTCCAGAGAATTTTATGTTCAATCAACGTGTAACACCTAACACGCTCCTACTTGACACAGGCACACTCTTTCCTA
AATGCATTCCATTCCCTCAACTTTC[C/
T]AAAGTTCCCATAAGGAGTCCTACTATGTGCTAGGAATCCAGCACATGCATGATAAAACTCCATCATTCTTTTT
TCATCATTTTCAACTGGCTACTATTAA C/T 895 0.352 0.007
0.358 0.012 2.2% 178 74.1% 79 64.7% 51 85.1% 67
NA 0 0.0% 54 0.0% 32 4.3% 92
3.2% 31 NA 0 67.5% 40 80.8% 39 64.7% 51
85.1% 67
rs1334494 TSCAF X 140.0444 134968099 reverse MIT

ATATACACTTCATTCAAAAATACATTTAAAAGGAGACAAGAAGGGGGATGCTTGAGGCTGACACACTGACAAGTA
AAGTTAGCAGGAAGAGAGAAGCCAG[A/
T]ATCACCAAATCATCATAAAAAGGTTAACTTTTGTTCAGTGTAGTAAAGACATAAATATGGAATATAGTGGTTA
AAGGAGCAAGTTTAAATTATCGGGAAA A/T 2,042 0.124 0.002
0.241 0.004 47.9% 234 3.2% 156 0.0% 48 0.0% 67
54.8% 62 46.3% 54 56.7% 30 40.9% 88
45.2% 31 4.9% 81 0.0% 37 2.6% 38 0.0% 48
0.0% 67
rs742218 TSCAF X 140.2119 135266909 reverse MIT

TCCATTGCTCACCTTTCCCTATATAAATATTTTCTTTGAAAACTCAAAGCATTTAGCTGCCCCTTCTGTGAAAGG
GTTTATCATATAGTAAATCTCTGAA[C/
T]TGTTTATTCATTTAATCATCCTGTTCAAGGCTGTCAGTAGTTGCAATGTTTTCTCAATGCCCTTTTAAGTTCA
GTATGGAGAAAACATCTTATCTTTCTG C/T 2,110 0.066 0.010
0.168 0.053 28.0% 157 64.8% 142 76.7% 43 37.2% 43
24.2% 66 34.6% 26 38.5% 13 26.9% 52
45.5% 22 59.5% 84 81.8% 33 60.0% 25 76.7% 43
37.2% 43
rs445691 AB_ASSAYS_ON_DEMAND X 142.6582 137352353
forward MIT
GCTAGACAGTAGTTGCTCAATAATTGTTAGCTGAATCAGAATCCATGTTTATCCCAGAGTAGCAATTAGTCTTGC
ATCGAGTATCGTGAAAGAAGGCCAC[A/
G]CTTAAATAAGAATAATGCCTGGGGTTTAGGTTTTATGAAAAAATGAAAGGAAATTAGTTCTGCTTTTGTTGAC
TAAAGGAAGGGAAGAGAGAAGAGACTA A/G extended_map 0.043
0.076 0.258 0.080 50.0% 212 79.2% 159 100.0% 51
100.0% 61 51.6% 64 52.2% 46 60.7% 28 43.2% 74
41.4% 29 79.8% 84 81.6% 38 75.7% 37

100.0% 51 100.0% 61
rs1051619 AB_ASSAYS_ON_DEMAND X 142.7325 137385319
forward LGD
TGCTTACAATATAGCCATTTATTGCAATCTGATGCATAGAATCATTAACTGACTTCAGTAAATCCAGCATTGCAT
CGAGTGCCTTCTTCAACAGAGCAGA[A/
T]CCTTCACAGTCTTTGCTATATTTTAATAGCTCCTGTAATTAGAAATCAGGAATTAATATTAGGCAGATATTAA
TATCTGGTTGAAATGAATAAGTTTTTG A/T 1,348 0.187 0.103
0.035 0.180 97.2% 176 49.4% 79 85.7% 49 94.0% 67
NA 0 100.0% 54 96.9% 32 95.6% 90
100.0% 32 NA 0 45.0% 40 53.8% 39 85.7% 49
94.0% 67
CV299672 AB_ASSAYS_ON_DEMAND X 143.0983 137547614
forward LGD
AACCAAGATGATAATGGGCCTAGAGATACTAACGAAGACAGAGGATATCATCTACATAAATAACCACTGGTCAAC
ATTTGCCATTTTAACGCTTGTTTTG[C/
T]TCTCCTTAACAGAGCATTCCTTCCATCTGGTGGCAGTTGCTTAAATTGCAGGCCAAAACTCAAAAGAGGCAAA
ATAAGCCTCTGAAATAGGTTCAGATTA C/T 325 0.234 0.219
0.023 0.053 73.9% 176 6.4% 78 56.9% 51 26.9% 67
NA 0 70.4% 54 93.8% 32 68.9% 90
87.1% 31 NA 0 10.0% 40 2.6% 38 56.9% 51
26.9% 67
rs5954594 AB_ASSAYS_ON_DEMAND X 143.1912 137588829
forward LGD
AAAAAAGAAATGGCTCCTTGCCCTATAAAAGTAAATAGGCAATTACGACGCAAGTGCTTACCACTAGAGTGATAG
AAGTACAAGGTATTCCGAAGTCACA[C/
G]AGCAAGGAATTCAATCGTCTAAGGAAATAAGGAATAACCTTCCCTGTCCTATCATTCTCCTTCATACTTAAAG
CAACTGAAAAATGTGGGGATTTCCCTA C/G extended_map 0.178
0.191 0.013 0.071 59.0% 178 2.6% 78 45.1% 51
23.9% 67 NA 0 57.4% 54 78.1% 32 53.3% 92
71.0% 31 NA 0 5.0% 40 0.0% 38
45.1% 51 23.9% 67
rs77742 TSCAF X 144.7945 138220209 forward MIT
CCAGATAACAGTTTCTAACATCTGGCCTCAGTGTGAGATACCAAGGCCCTTTCACAACAGGCACATAATTTTTTC
TGTAAAGACATCATGGGTCTAAAGA[A/
G]CTTGGGATACTTGGATCTACCACTGGACATTCCCCTGGCATGGATTCTGGCAGGAAAGACTCAGGCTGGGCGA
TAGTCCAGGGCAGACAGTGCTGGCTGG A/G 692 0.199 0.003
0.306 0.001 56.4% 225 0.0% 148 0.0% 48 0.0% 67
62.7% 51 64.2% 53 58.6% 29 47.8% 92
67.9% 28 0.0% 70 0.0% 39 0.0% 39 0.0% 48
0.0% 67
rs1323336 TSCAF X 145.8841 138368667 forward MIT

AGGCAGCTTGGAAGGGGTTCCCTTCAGCTACCCCTGAGCCAGGTACCTAGCATGTCCAAACACAGACGTTACAAT
GCCTTGGGGATTGGCCATTTGTTGT[G/
T]CACTGGGGCTGCGGCCCATGGAAAGGGAAGATAGACTTCATCATCTCCAACTTGGGTCCTGCATCTTCATTTC
ACATTAAGTTCTGCAAATTGTACAGCT G/T 1,162 0.13 0.000

0.185 0.001 22.0% 241 72.7% 161 72.5% 51 76.1% 67
18.2% 66 18.5% 54 25.8% 31 25.6% 90
18.8% 32 76.2% 84 66.7% 39 71.1% 38 72.5% 51
76.1% 67
rs909761 TSCAF X 151.5169 139894111 forward MIT

AAGAGATTAGTTAGTTAGGGGGCATGGATGCAGAAAGAGTTATATTGATTTAGTTTGGAAATGGCTGTCTTGAAG
TTATTCTCTCCGGGAAACCTTCCCT[A/
G]ATTCTCCAACAATAAATTGGCTGCTGCTTCTATGTGGCCCCATAGCACTTTATACTCACCCCTATGTAACACT
AACCAGATTACAGGGTGAGCACATGCT A/G extended_map 0.116 NA
NA NA 94.0% 67 53.6% 84 NA 0 NA
0 94.0% 67 NA 0 NA 0 NA 0
NA 0 53.6% 84 NA 0 NA 0 NA
0 NA 0
rs975029 AB_ASSAYS_ON_DEMAND X 151.5363 139900853
forward MIT
TTGGGGATGAAGTACCTTTATTAGTAAGTATCATGAACATAATCTCATAATGACTACTTACTAATTTACAGTATA
AATAGAATAGCGCTATCCTTGAATT[C/
G]TAGCTTCTGATGTGTGTTAGGTAACTTCATGACATTTGTATAGTTAAATGCGCATAATATTGAAACAAATAAC
AGATCAGCTTAGTGCAGCTGTCCTGCA C/G 546 0.196 0.150
0.015 0.215 0.4% 241 42.7% 157 3.9% 51 0.0% 67
1.6% 64 0.0% 54 0.0% 31 0.0% 92
0.0% 32 47.5% 80 30.8% 39 44.7% 38 3.9% 51
0.0% 67
rs926357 AB_ASSAYS_ON_DEMAND X 154.54 140943035
forward MIT
TAACATCTCATCTGCCCAACCAGATTACATGGCTAATTCTGGAGTGTGCACAGAAGAACACTAAAAAGTTACAGG
GTAAGATGTGTGGAGGAATAAAGAA[C/
T]TAAGGTCATGAATTGAGTTACTCTATCACATTTTCTTTTTGCATTGTTTTATCCTCATGTTAATGGTGTCCCT
GGAAGGAAGGCACATGTGAATGCTCAG C/T 1,282 0.116 0.005
0.243 0.053 47.9% 243 4.4% 160 0.0% 51 22.4% 67
47.0% 67 46.2% 52 59.4% 32 45.7% 92
31.2% 32 3.7% 82 7.7% 39 2.6% 39 0.0% 51
22.4% 67
rs1040651 AB_ASSAYS_ON_DEMAND X 155.825 141385352
reverse MIT
GCTAGATGGTGTTACCCACCCTTGCTGTTTCACTCCTCTGAAGTGTTCTCTCTATATTTTGCTATTTTGCAAGGG
AGGGGAAGAAATAATATGTATGCTT[A/
T]TCTGTGTGGATTTTAAACAAGTTGCTGAATTATCAATAAAGTTTTAAAGTGCTCTATCATTTGTCATGTTATG
GTCAGCAATGGTTGTTCTTTTCTTCTT A/T extended_map 0.122 NA
NA NA 95.5% 67 55.6% 81 NA 0 NA
0 95.5% 67 NA 0 NA 0 NA 0
NA 0 55.6% 81 NA 0 NA 0 NA
0 NA 0
rs1338183 AB_ASSAYS_ON_DEMAND X 156.0233 141453629
reverse MIT

GAGTGGTGGATGAAGAATGTAATTGATCCTCATCACGGACTCTTGGCCAACTTTTTTCTAAGAAAAAAACTTCAG
TTTAACAGTTTTTGAAGTACAAGCT[C/
T]GTGGTTTATGCTTACTCTCTAAGTGGAAATCAGGATTGTTCTGCAGACTTAATTAAGGCTCAATGTTTTTGAA
CACAGTACTCCTCTAGGATGTAACAGT C/T 814 0.199 0.003
0.306 0.001 56.3% 238 0.0% 157 0.0% 49 0.0% 65
66.1% 62 60.4% 53 35.5% 31 54.3% 92
62.5% 32 0.0% 82 0.0% 38 0.0% 37 0.0% 49
0.0% 65
rs517532 TSCAF X 161.1439 142917790 reverse MIT

TAAGCAATTTTTTGCACGTCTGCAGTATTTCAGGCACTGTACTAGAAATAAAAAGGATATTTTCATTTCCAGTGT
TACTGATGAGTCCACTGAGATTTCA[C/
T]GAATTTAGGTAATTAGCATATCTATGTTCCACCCTGGGTTTGCTTTAATCCAAGTTTAAGTGAGAGGCCCTGG
AGTGTATATTTTTCAAACAGTAACCCG C/T extended_map 0.036 NA
NA NA 38.5% 52 66.4% 70 NA 0 NA
0 38.5% 52 NA 0 NA 0 NA 0
NA 0 66.4% 70 NA 0 NA 0 NA
0 NA 0
rs4466551 TSCAF X 161.1478 142919477 forward MIT

ACTGTATGTATAGACCAAATGTTCTTTATCAGTTCATCCATCGATGGGTACTTACGTTGCTTCCACAACTTGGCC
ATTTGTGAATACTGCTGGAACGAGC[A/
G]TGGGAGAGCAGATACCTCTTTGACATATTGATTTCCATTTCTTTGGATATATACCCAGAAGTGGGATTGCTAG
ACCATGTGGCATTTTTAATTTTTAGAG A/G 511 0.178 0.064
0.511 0.056 11.1% 225 66.4% 152 91.8% 49 38.1% 63
8.8% 68 12.2% 49 11.5% 26 12.2% 82
15.6% 32 64.1% 78 74.4% 39 62.9% 35 91.8% 49
38.1% 63
rs981656 TSCAF X 165.939 145383505 reverse MIT
GATGTAGCTAACTCTCTGGGTAGGAAGCTATGCTGATGAGAACTAAAGTGAGGCCAAGTTAACAGGGAGGACCAT
TGGCCCCGTTTGAGCTGAGATGACA[A/
G]GCCATTAATTCCTAGCTGTAGACTGGATAGATGACAAGGACAAGGGACAATTACCACTCCCACCAAATAAGCC
AGTGAAAATTCAGGGATATGTAGTCAT A/G 1,788 0.201 0.001
0.323 0.000 41.7% 240 99.4% 157 100.0% 49 100.0% 62
40.6% 64 46.2% 52 34.4% 32 42.4% 92
63.3% 30 100.0% 82 97.4% 39 100.0% 36 100.0% 49
100.0% 62
rs5936455 AB_ASSAYS_ON_DEMAND X 168.2355 146654664
forward LGD
AGCAACTTTCAGAAGAGCACAGTGTTGACTGAGCAGAATAAAGCCCATCCTTAGATAGTGAAATTTTTAAAAAGT
ATCCTTTGATAATTAGCAACAGTAT[A/
G]CACATAGATGAGCTAAGCAATATTTTCTTTGATGCGAACAGTCCTTCTTGAAGTACAAGAAGGCAACACAGAT
GTTCATTCGGCTTCTTATGTGTTCAGA A/G extended_map 0.292
0.001 0.478 0.000 78.2% 170 3.8% 78 2.0% 51
3.0% 67 NA 0 70.0% 50 76.7% 30 83.3% 90
71.9% 32 NA 0 0.0% 40 7.9% 38

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2.0%    51      3.0%    67
rs764536        AB_ASSAYS_ON_DEMAND     X       168.2636        146665076
        forward MIT
GAGTTATTTCCTTAATCATTTGACAATTAGGAGCTGACGTGAAGAGATGAGTAATGAAGTACCCTCTGTGATTGT
ACTTTGGAGGTAGCCACAGGGGTTT[C/
T]TTATATCTAATCTGCTGTAGTTGCTCTAAGAAGCTGAAGGGAGACTGAGAGGGGCAATTCCAAAAGGAATTCT
GCCTTTCCTCATCACTTGAGAATGGAA     C/T             10      0.494   0.003
0.611   0.001   96.6%   236     7.8%    153     10.6%   47      4.8%    63
        97.0%   66      100.0%  50      96.7%   30      94.4%   90
100.0%  32      9.5%    84      5.6%    36      6.1%    33      10.6%   47
        4.8%    63
CV2645844       AB_ASSAYS_ON_DEMAND     X       168.5148        146758066
        forward LGD
GAGACTTCTAAAAAGCAGCCCTTAGTTGCAAGTACTGTCTATAGGACACTACAATGAGCAGATAGTTTAGTAAAT
TTCATGAATAGAAACTAGTTGAGGC[A/
G]ATGATTTGGATTCAGGTCCACCAAAAAGATAGCAATAACAGCAACAACAATGCCACAAACCACATATGATACC
CTGCCTGCATTTTTCTCTTCTCAACTA     A/G             extended_map    0.319
0.000   0.416   0.012   4.0%    176     74.4%   78      74.5%   51
85.1%   67      NA      0       1.9%    54      0.0%    32      6.7%    90
        9.4%    32      NA      0       70.0%   40      78.9%   38
74.5%   51      85.1%   67
rs758439        AB_ASSAYS_ON_DEMAND     X       168.5482        146770448
        forward MIT
GTGGAATGGAAAGAGAATGAAGAGAATGGGCTTTGGAGGAAAATGGACCTGCTATTAGATCCTGGCTTTTTGGCT
CTCTGGGCTCTGTGGCCCTCAGGAC[A/
G]GAGCTGAACTTCTCTGAGGCCAGAAACAGTGGCAGCAGAACTTTCCCTGCAGAGTTATGGTGAGGCTTGGACA
GAATATTGGTGAAGCCCTGAACTATGC     A/G             699     0.312   0.001
0.433   0.008   96.6%   235     28.7%   157     25.0%   44      19.0%   63
        95.2%   62      98.1%   53      100.0%  32      95.5%   88
96.9%   32      29.8%   84      32.4%   37      22.2%   36      25.0%   44
        19.0%   63
rs1858955       TSCAF   X       168.9354        146913765       forward MIT

CTGCTCTCACCAACAGATACAAGACCTGTTCCTACAAACCTCACTGAGGACCAGGCTGTGGATGCCGAAGAGTTC
ATTCTACCTGCTTCATTAAATAACT[A/
G]ATGTGTTTCTGGGCAATCAGGCCCAATCTCAGCCCTGCCACCTATAATTAGTTTGAACTGCAGGCAAATGCTG
AACAGAGCCCAGCAGCAGTTCCTCAAG     A/G             1,210   0.214   0.100
0.075   0.000   76.4%   242     11.8%   161     44.9%   49      11.1%   63
        76.1%   67      81.1%   53      70.0%   30      76.1%   92
75.0%   32      9.8%    82      10.0%   40      17.9%   39      44.9%   49
        11.1%   63
rs760050        TSCAF   X       169.3228        147057201       forward MIT

AGTCTCACAGCCTTTTCCCTGAGCCTTTCAAAGACCTACACCTCTGTGCCTCTATATCACTAATGCTGTACACTT
CTCAGTCAGGATATAGCTCTGGAAG[A/
G]CAGGGCTTCCATGTCATGCATGCACCTTGCCCAAGACCGCTCAAATTATGCATGTTTGGAAATATGTGTATCT
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CTGTTGCTGGGCAAAAATTGGATGCTC A/G extended_map 0.183
0.170 0.708 0.033 93.8% 243 42.1% 159 2.0% 51
21.5% 65 94.0% 67 92.6% 54 93.3% 30 94.6% 92
93.8% 32 40.2% 82 35.9% 39 52.6% 38
2.0% 51 21.5% 65
rs732604 TSCAF X 169.4052 147088620 forward MIT

AAATATTGGGAAATGTCTCACAATGCTCCAGTGAGCACTGAGAAATGCCCCCAAAGAGACCCTGCTGACAGTATG
GCAGAAAGGTACAGGTGAGGGCAAA[C/
T]AGCAGAAGGCAGGAGCTCGCTTCCACTTGACAGAAAGTTCCATAACAAAATCTCCATTACCTTTAATGATTAG
TTTTCAGTTTTGCCTTCCTAATTAGTG C/T 1,394 0.232 0.011
0.458 0.065 27.5% 240 93.8% 162 100.0% 51 71.6% 67
27.3% 66 25.9% 54 36.7% 30 25.6% 90
19.4% 31 95.2% 84 90.0% 40 94.7% 38 100.0% 51
71.6% 67
rs725796 TSCAF X 169.693 147248065 reverse MIT
GGCTGACTCTCTAGAAGAGATGGCCAGTGATTCCCTTTTTAAGGACAAAGGAATAATAACATTCCTAGATGATCC
ATGCCTCCCCTTCAATATGTTTTAT[C/
T]ATCCTGTTTCTGCTAAATACACCTTTGCCTTCTCTTGTTCAGCCAGACTTCCATTTTAAATGACTAAAGTGGT
AACTTAATGCTATTGTTTCTATGTTAG C/T 1,686 0.199 0.205
0.019 0.132 39.5% 233 98.1% 162 56.0% 50 67.7% 65
36.9% 65 40.0% 50 46.7% 30 38.6% 88
41.9% 31 100.0% 84 92.5% 40 100.0% 38 56.0% 50
67.7% 65
rs572781 TSCAF X 172.2675 148166057 reverse MIT

TATTCGGACAAAAGCTCAGGTCTTGCATGTACGTTCAAAACATCTTGTGATATTGAACACTCTGCAAGTGCTTGA
TATGTCTGGCAAAAAAAAAGATGAG[C/
T]CTGTGCCAGGTAAGGAAACAGATTGGGGCACTCACAGAGGACACATCGGCATTTTGCCCCGGTGGGGCAGAGG
AGAGCCACTGGGAAACAAGTTGACTTA C/T 2,023 0.136 0.000
0.224 0.010 57.9% 242 7.6% 158 6.1% 49 1.5% 67
59.4% 64 61.1% 54 56.2% 32 55.4% 92
78.1% 32 10.8% 83 5.3% 38 2.7% 37 6.1% 49
1.5% 67
rs568249 TSCAF X 174.3273 148357112 forward MIT

CGCTTCCCTTCTAAGTGAGCCTTCTTTTTCCTTTCCCTCAGCCAGCCTTGAAGTCTCCTTCGACAGAGAGTGAGA
CCTGCTGTCCTCCCTGCCCTTAGTC[A/
G]CTGTCCACTCAGCCTAATGCCTCTGTGGAAGAGGAGGAGCCGCCATCTCTGAACTGTTAATGGAGGTGGGGAA
AGAGAGCCAAGCTAGGAAACAGGTTGA A/G 1,105 0.172 0.009
0.144 0.038 3.3% 244 48.7% 154 37.3% 51 71.6% 67
1.5% 66 0.0% 54 3.1% 32 6.5% 92
0.0% 32 44.2% 77 53.8% 39 52.6% 38 37.3% 51
71.6% 67
rs222415 TSCAF X 175.6405 148474904 forward MIT

TTACAAACCTGAGTAGGAATTTTGGCTGCCAGTGACCATCATACGGTACTCTAGGAACCACTGCATTCCATGTAG
CTGTTAATCAGGGTTACACTGGATG[C/
T]ACTGAAATTTTATATAGTGGTAACTGAAGGATGAGATTCAGGACAAATATTAGCAGGTTGACCTGTGTGGCAT
TTGTTTCAGTCATTTTTGATAGAAAAA C/T 410 0.199 0.008
0.381 0.017 17.3% 237 79.0% 162 88.2% 51 91.0% 67
15.0% 60 13.0% 54 12.9% 31 22.8% 92
12.5% 32 75.0% 84 92.5% 40 73.7% 38 88.2% 51
91.0% 67
rs4240082 AB_ASSAYS_ON_DEMAND X 177.6819 148658018
forward LGD
AGGAGATCCTGTCTCCCCACCACAACCTCCACTTCAACCACTTCCTCCCTTTGACTTGTGCAACTTTTCTCCATG
AACTTGTCCATGTGCGTCATACTGC[C/
T]GGGAAACAGCTTGCTCAAATTCCCTTCCCAAATATACCTAATGGCAGACTGTGGCCTCTATCAACAATCACAC
TCAAATTCAACACCTGTGTACACAGTT C/T 865 0.194 0.002
0.204 0.119 1.7% 178 48.1% 78 43.1% 51 86.6% 67
NA 0 0.0% 54 0.0% 32 3.3% 92
0.0% 31 NA 0 48.7% 40 47.4% 38 43.1% 51
86.6% 67
rs1483959 TSCAF X 178.7835 148759777 reverse MIT

AGAAGCCACACAAAAGGACAAATATGGTCTGATTCCATTTCTACGAAATGTACAGAATGGGAAATCCATAGAGAT
GGAAAGTAGATGAATGGGTGCCAGG[A/
G]ACTGGGATAGTGAGAATGGGAAGTGACTGCTTCATGGGTACAGGGTCTCTTTTTGGGATAATGGAAAAGTTCT
GGAACTAGATAGAGGTGATGATTGCAC A/G 708 0.177 0.006
0.341 0.007 74.1% 232 14.8% 162 7.8% 51 7.5% 67
75.8% 66 83.7% 49 64.5% 31 70.9% 86
83.3% 30 10.7% 84 15.4% 39 23.1% 39 7.8% 51
7.5% 67
rs760109 TSCAF X 180.1865 149192990 forward MIT

CACACGCATGTGCATGTTTATATATCTGGAAGGAAATACATAAAATATGAACAGAGGTCATACGTGGTTGTCAGA
CTCTCATTCGCTCACTCGCTCCTCA[A/
G]TGTGTGGTCCTGGAAAAGACACTTTATCTCTTTTGACCTTAATTCCTACATGAGTGAAGTGACAGAACTGTAC
CAACCTTCCCTGTCTACCCCAAATGAA A/G 1,106 0.179 0.067
0.053 0.074 1.6% 243 44.8% 163 15.7% 51 14.9% 67
0.0% 66 1.9% 53 0.0% 32 3.3% 92
6.2% 32 50.0% 84 40.0% 40 38.5% 39 15.7% 51
14.9% 67
rs2027812 TSCAF X 185.6022 151001346 forward MIT

GGTTTATAAGGGGTATAAATAATTGAGGTAGGTGCCTGGTACCCCATCGGTAGTCCACAGATTATAGCCATTATT
ACCCTTGACTGCTTCCTCTCCCTCA[C/
T]GTCCCCTACCCAATCCTGAACAAGTCCTGGCAATCCCACCTCCTAAATAGGACTAGAACACAATCATTTGTCT
CCAGGCCCACTACCCTGAAACACAGAC C/T 1,828 0.125 0.123
0.006 0.182 16.1% 261 63.9% 202 22.4% 49 14.9% 67
20.5% 83 7.4% 54 25.0% 32 14.1% 92

16.1%	31	67.5%	123	45.0%	40	71.8%	39	22.4%	49
	14.9%	67
rs762735	TSCAF	X	185.9949	151195627	forward	MIT

TTCAAAATTTAGAAACGAGAAGGTGGGTGCTGGAGTTTCTTTGACCTACCGCAGGGTAGATGAGGGACCTCGGGA
GAAACTCTCGGGCCACAAGGGCTTG[A/
G]GAGCCAGGCGCCGGGATGAATGAAGAATGAAGTCATCAACCAAGGACAGGACACTTTCCATCCCACTGGTCAT
CAGAAGCCAGAGATCTGCCCCTCCCTG	A/G	2,058	0.082	0.002
0.092	0.070	69.5%	239	28.4%	162	33.3%	48	59.7%	67
	71.4%	63	62.3%	53	77.4%	31	69.6%	92
84.4%	32	26.2%	84	30.8%	39	30.8%	39	33.3%	48
	59.7%	67
rs731416	TSCAF	X	186.6097	151499743	forward	MIT

TGCGGAGGGTTCCTCCTTGCAGCCGGCCCTGGCTGCCCAAGGCAGGTTTTCTCTCCCTGTCTGGTCCCTTGGGGC
ACACGGTGGCCTCACTCCTCTCACC[C/
T]GACTTAGATCTCTCTTGTCTGGGTGGTGGGCGCAGGGGCGCGCTGTGACACAGCTTCCGCCAGCCTTCCAGCT
CCCGCGGCCTCCCTCCCTCCCCTGCCC	C/T	1,748	0.133	0.072
0.034	0.089	25.9%	228	77.7%	148	46.9%	49	43.3%	67
	8.9%	56	29.6%	54	33.3%	30	31.8%	88
18.8%	32	77.1%	70	77.5%	40	78.9%	38	46.9%	49
	43.3%	67
rs5201	APPLERA_RESEQUENCING	X	186.893	151639897	forward	MIT

CTGACGGGGCCACTTGGGCTTGGCCGCATGCCCCTGTGCCCCACCAGCCATCCTGAACCCAACCTAGATCCTCCA
CCTCCACAGGGGCGCCCTTTGTGCT[A/
G]CTCATGTTGCTGGCCAGCCTCAACAGCTGCACCAACCCCTGGATCTATGCATCTTTCAGCAGCAGCGTGTCCT
CAGAGCTGCGAAGCTTGCTCTGCTGTG	A/G	674	0.293	0.092
0.121	0.175	95.0%	159	26.6%	79	62.7%	51	76.1%	67
	NA	0	94.2%	52	94.1%	17	95.6%	90
100.0%	30	NA	0	40.0%	40	12.8%	39	62.7%	51
	76.1%	67
rs3737556	APPLERA_RESEQUENCING	X	187.8256	152101273
	forward	MIT
CCAAGAAAAGGGGAGGCGGGGTCAGGGCCTCAAGCCTCTGGGTGTGCCCCTGATTAGACCCACAGAATCTTCCTC
ACCGATTGAGTTCTCGAAGCAGGAG[C/
G]GGGATGGCGCTGCCGGAAGAGTCCACCACCTCCTGCAGCACCATGATGTCACAGCGAGCCAGTATCTGTGGGA
CATCAGGAAGGCCAGCCTGACTCAGTG	C/G	1,905	0.118	0.022
0.307	0.057	64.5%	152	15.4%	78	3.9%	51	0.0%	67
	NA	0	71.4%	49	69.2%	13	60.0%	90
66.7%	30	NA	0	7.7%	39	23.1%	39	3.9%	51
	0.0%	67
rs4232906	AB_ASSAYS_ON_DEMAND	X	188.1579	152265682
	forward	LGD
TCCCGAATTCTCTTCCTCTCCTTGCTCAGACACTGCCCCTTTGTGACCTCGTCCATCTTCAAGGCCTTGATGCTG
ATGACAGATTTCTGTCTTCCAGTCC[C/

T]GATCTGTTCCTTCACGAAAATGAGCCCAGTAGCCCGTCCAAGCCAGAAATGGACTTTTAGCCCCCACCCCCTG
CCAACTCTGCCCTTTCCCTCATCCCCA C/T maps to two positions on chromosome
X within 64,665bp of each other (HG16 positions 152,265,682 and
152,330,347); the first is arbitrarily reported here 1,126 0.255
0.012 0.208 0.100 99.4% 176 46.2% 79 59.6% 47
11.9% 67 NA 0 100.0% 54 100.0% 32 98.9% 90
100.0% 30 NA 0 47.5% 40 44.9% 39
59.6% 47 11.9% 67
rs884840 AB_ASSAYS_ON_DEMAND X 188.3389 152395582
reverse MIT
ACTACAGGACTTGGTGTTCTATAAGGGCCTTATTGGTTCTAATGGTTCAGACACTTGCTCAACTTGGTATAGCTA
CTTAAGGCATCACTTTATGCTTAAA[A/
G]CATTTGCATAAACTCATAACCCTCTGTCTTCCAGTGTCAGATCTTGGAGACTTATCGCCTATACTAAAACGAT
AAGTCCAGAGGCAGAACTTGAGCTAGA A/G 156 0.314 NA NA
NA 98.5% 65 30.5% 82 NA 0 NA 0
98.5% 65 NA 0 NA 0 NA 0 NA
0 30.5% 82 NA 0 NA 0 NA 0
NA 0
rs2051161 AB_ASSAYS_ON_DEMAND X 188.7136 152708165
forward LGD
TCGCTGTATATGGTCCGCAGAAACTTGACTTGGAATGTGTTCGGGGTTTCATCGCCCCCTTGTGGCGGCGACGTG
GTAACACCGCACTCAAGGCTTCCAA[C/
G]TTGTCAACCAATAGGATGGCATCTACGTAGTGAAGGCTTCCCTTCCCTTGTCCTGCAGCGTGCTGGACAGTGT
CCCGGCTCAGGGACCCCTTCTGTCCCC C/G extended_map 0.156
0.001 0.188 0.000 90.3% 175 39.7% 78 43.1% 51
38.8% 67 NA 0 92.5% 53 96.9% 32 86.7% 90
100.0% 32 NA 0 45.0% 40 34.2% 38
43.1% 51 38.8% 67
rs895745 TSCAF X 188.7859 152768523 forward MIT

AAACATTTGAGTGCTATTCCAGGCACTAAGGTACAGTGCTGAACAAAAGAGACAGTTTTAACCTTCATGGAGTTA
ACATTCTTTTATTTCCATTTGGGGG[A/
G]AAATAGATTCCTACCTAATACCCTACACAAAAAATAAATTCCAGATATATTTAAACTTTTACTATTGTGGTAC
AACCACTTTAGAAAAGAGGTTGGCAAT A/G 1,968 0.108 0.011
0.090 0.009 26.1% 238 72.8% 158 61.4% 44 62.7% 67
19.7% 66 31.4% 51 12.9% 31 32.2% 90
50.0% 32 76.5% 81 66.7% 39 71.1% 38 61.4% 44
62.7% 67
CV7663378 AB_ASSAYS_ON_DEMAND X 189.2642 153167529
forward LGD
ATAGTAAAAAGCTTGGCTGCAAGATGCAAAATAATGGGCTCCAGAAACCCAAAGCAGTTTGGAATAGCTAGGGAA
GAATGTATGGAAAACATGAATTACA[C/
T]GCTAGAAGAGTAAGAAGGGATCAGATCATACAGAACCTTAAAAGCCATAAGGAAGGACTCTAGTCTTTCTCTG
AAAGACACTGGGGAGGTTTAGAAGGAT C/T 417 0.3 0.042
0.199 0.000 95.5% 176 26.9% 78 51.0% 51 28.4% 67
NA 0 96.3% 54 96.9% 32 94.4% 90

90.6%	32	NA	0	25.0%	40	28.9%	38	51.0%	51	28.4%	67