Table 2. Hypermethylated CpG loci with source sequences selected using network-based enrichment analysis.

| CpG loci ID | Gene Symbol | Chr | Source Sequence | Coordinate in Build 36 | Genomic Location | Strand | Functional Location | △-Beta | Adjusted p-value |
|-------------|-------------|-----|-----------------|------------------------|------------------|--------|---------------------|--------|------------------|
| cg24157392  | BTLA        | 3   | CGCTAAGCAAATGTAACAGCTGTTTCATCTAGATTACCACACTTTGTA | 113700663 | 3:113700663 | F      | Body               | 0.25195 | 1.60E-08        |
| cg09032544  | CD247       | 1   | CGGAAAATGTCAGCCAGCCATGTTTCGTGCAGCTCTAGTTCCCTTT | 165753919 | 1:165753919 | R      | Body               | 0.31832 | 7.70E-04        |
| cg07786657  |             | 1   | TCCCCCATACATACACAAAGAGTTTCTAGAATGTTCTGCTGCACAG | 165754257 | 1:165754257 | R      | Body               | 0.36159 | 5.60E-05        |
| cg14165142  | CDC25B      | 20  | AGAGGTTGGGGCCCTCTACGGAGATGAGATCTTTACTCTAATGAAAACCACG | 3726655 | 20:3726655 | R      | Body               | 0.25253 | 1.10E-08        |
| cg02737268  |             | 20  | CAGTGTTACAGAGGACACCTGCGACGGGAGCTTTGTGCACTGACGCG | 3728182  | 20:3728182 | F      | Body               | 0.42308 | 1.90E-09        |
| cg15421087  | CTNNB1      | 3   | CGGCAGGAGTACACTTCTACAGCCCCCTGGGCACACCTGGCCCCTTGGCTCT | 41215859 | 3:41215859 | F      | TSS200             | 0.25553 | 3.20E-05        |
| cg03295554  | ETS1        | 11  | CGGCTGATCCAGAACGATGTTGAGATTTATTGACTCTGAGATTTACTGTGTAT | 127900660 | 11:127900660 | F      | Body               | 0.26371 | 1.00E-05        |
| cg26404422  |             | 11  | CAAAGTACACAGAGAATACGCACAAAGCTGCAAGAGGAGAGAGAGCTGAC | 127872220 | 11:127872220 | F      | Body               | 0.26570 | 3.40E-04        |
| cg26348243  | LTA         | 6   | CCGGGCGGAGAGAAGAGACCTCCGGCTGGAGAGACACCCCGCCAGCCC | 31648440 | 6:31648440 | R      | 5'UTR              | 0.28315 | 7.60E-04        |
| cg14441276  |             | 6   | CTACAGCAAAGGTGTCAGAGATGTTATTATATGATTGTGCTCTGAGGACCG | 31647714 | 6:31647714 | R      | TSS150;TSS200      | 0.25889 | 2.40E-06        |
| cg02402436  |             | 6   | GATGGGGGAGAGAGGAGCTTCTCCTGTTGGCAGGAGGCCCTGGCAGCAGGAG | 31648030 | 6:31648030 | F      | TSS200;1stExon;5'UTR | 0.26393 | 1.70E-09        |
| cg21999229  |             | 6   | CGCTGCACTGCCGTCTCTCTACTAAAGGACCTGAGTGGCAGGGCCAG | 31647993 | 6:31647993 | F      | TSS200;1stExon;5'UTR | 0.26700 | 1.50E-03        |
| cg16219283  |             | 6   | GTCAGGCGAGCCTTCTTATAGAGGAGGAGCCTGAGCAGGACAGGACG | 31647981 | 6:31647981 | F      | TSS200;1stExon;5'UTR | 0.27092 | 9.00E-09        |
| cg14597739  |             | 6   | CGCCCGCTGCCGTGACCTGCCACCTGCGGCGCTTCTCTACTAAAGGACCT | 31647977 | 6:31647977 | F      | TSS200;1stExon;5'UTR | 0.28225 | 2.50E-05        |
| Gene  | Chromosome | Start | End   | Methylation | Annotation | E value |
|-------|------------|-------|-------|-------------|------------|---------|
| cg17169196 | n:5'UTR | 6 | TGTCGGAGGCCTGGGCCCCAGCTAGTTAGAGGAAAGCG | 31648005 | 6:31648005 | F | TSS200;1stExo | 0.28398 | 6.90E-12 |
| cg09621572 | n:5'UTR | 6 | CGGGCAGGCCCCCCGCTAGAGACCCGCCCTGCCAGCCGTGCCAC | 31647952 | 6:31647952 | F | TSS200;1stExo | 0.33790 | 3.70E-08 |
| cg14437551 | n:5'UTR | 6 | AGAGGAAAGGGGACATGAGGACCCGCCCGTCCTTCAATAGGTCG | 31647965 | 6:31647965 | F | TSS200;1stExo | 0.36865 | 5.10E-06 |
| cg22324981 | NFATC1 | 18 | CGGCTACGGCCTTTATACGCAGCTAGTGAGGACCGG | 75384481 | 75326961 | F | Body | 0.30353 | 4.00E-10 |
| cg16308790 | NFATC1 | 18 | CGTCTACGGCCTTTATACGCAGCTAGTGAGGACCGG | 75326961 | 75384481 | F | Body | 0.38664 | 4.50E-06 |
| cg03889044 | PDCD1 | 2 | ATGGCTTTCTCCACCTGTGGTTATGTTCTTGTTCTTTCCCTTCAGGCCG | 242450772 | 2:242450772 | F | TSS1500 | 0.26858 | 3.10E-10 |
| cg17322655 | PDCD1 | 2 | TGGCCGCGGCTGAGACATCTTTGATGCTCTTTCCCTTCACTTTTCG | 242450800 | 2:242450800 | F | TSS1500 | 0.27499 | 1.90E-08 |
| cg20805133 | PDCD1 | 2 | CGAGAGCTCTCCGCTGGGCGGCTGCCAGACATCTTTGCTTGCT | 242450865 | 2:242450865 | R | TSS1500 | 0.36842 | 6.60E-05 |
| cg09993145 | RUNX3 | 1 | CCCCACGCTGCCCTTCTCTTCTTCTTTGCTGGGCCTGCTGAGGGC | 25164492 | 1:25164492 | R | TSS1500 | 0.38990 | 4.20E-04 |
| cg13461622 | SYK | 9 | ACAACCCCTTCTTCTTTTCTTCTCTTTCCCTGAGGAATGAGACTGTGTTAGGCTGTCACG | 92659288 | 9:92659288 | R | Body | 0.26680 | 1.60E-08 |
| cg20059012 | RARG | 12 | TGTCGGGCCCTGGCTTGCTGGGGGCGGCTTTTGAAAGGCTGCTGTTCG | 51899421 | 12:51899421 | F | Body | 0.27935 | 7.70E-07 |