

S4 Table. Genotypes in the SNPs analyzed in each DNA sample from EHDN's collection.

| GENE | DFFB | DFFB | E2F2 | E2F2 | E2F2 | CASP8 | CASP8 | CASP8 | PPARGC1 | PPARGC1 | PPARGC1 | PPARGC1 | PPARGC1 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---------|-----------|-----------|-----------|-----------|-----------|
| Sample/SNP | rs6670527 | rs7367066 | rs2075993 | rs2075995 | rs2742976 | rs1861270 | rs10931936 | rs13113 | rs2970882 | rs3755863 | rs8192678 | rs6448228 | rs2970871 |
| 1 | C G | T T | A A | C C | G G | C C | C C | A A | C T | G G | G G | A G | G G |
| 2 | C G | C C | A G | A C | G G | C T | C T | A T | C T | G G | G G | A A | A A |
| 3 | C G | C T | A G | A C | G T | C T | C T | T T | T T | 0 0 | A A | A G | A G |
| 4 | G G | C C | A A | C C | G G | C T | C T | A T | C T | A G | A G | A A | A G |
| 5 | G G | C C | A G | A C | G T | C C | C C | A A | C T | A G | A G | G G | A A |
| 6 | C G | C T | A G | A C | G G | C T | C T | T T | C C | G G | G G | G G | A G |
| 7 | C G | C T | A G | A C | G G | C T | C T | T T | C T | A G | A G | A G | A A |
| 8 | C C | C T | A A | C C | G G | C T | C T | A T | T T | A A | A A | A A | 0 0 |
| 9 | C G | C T | A A | C C | G G | C T | C T | T T | C T | A G | A G | A G | A G |
| 10 | C G | T T | A A | C C | G T | C C | C C | A A | C T | A G | A G | A G | A G |
| 11 | C G | C C | G G | A A | T T | C C | C C | A A | T T | A A | A A | A G | A G |
| 12 | G G | 0 0 | 0 0 | C C | G G | C C | C C | A A | C T | G G | G G | A G | A A |
| 13 | C G | C C | A G | A A | G G | C C | C C | T T | C T | G G | G G | A G | A G |
| 14 | C G | C C | A G | A C | T T | C C | C C | A T | C T | A G | G G | A G | A G |
| 15 | C C | T T | A G | A C | G G | C C | C C | A A | T T | A G | A G | G G | A G |
| 16 | C G | C C | A G | A C | G T | C C | C C | A T | C T | A G | A G | A G | A G |
| 17 | C G | C T | A G | A C | G T | C C | C C | A A | C T | A G | A G | A G | G G |
| 18 | C G | C T | A G | A C | G G | C T | C T | T T | T T | G G | G G | A G | G G |
| 19 | G G | C C | G G | A A | T T | C C | C C | T T | T T | A A | A G | A A | A A |
| 20 | C C | C C | A G | A C | G G | T T | T T | T T | C T | A G | A G | A G | G G |
| 21 | G G | C C | A G | A C | G G | C C | C C | T T | C T | G G | G G | A G | G G |
| 22 | C G | C T | A A | C C | G T | C T | C T | A T | C T | G G | G G | A G | G G |
| 23 | C G | C C | A A | C C | G G | C C | C C | A A | C T | A G | G G | G G | G G |
| 24 | C G | C T | A G | A C | G G | C C | C C | A T | T T | G G | G G | A G | A G |
| 25 | C C | T T | A G | A C | T T | C T | C T | A T | C T | A G | A G | A G | G G |
| 26 | C G | C T | A A | C C | T T | C T | C T | T T | C T | A G | A G | A G | A A |
| 27 | G G | C C | G G | A A | G T | C C | C C | A T | T T | A A | A A | A G | G G |
| 28 | C G | C T | A G | A C | G T | C T | C T | A T | C T | G G | G G | G G | A G |
| 29 | C C | C C | A G | A C | G G | T T | T T | T T | C T | A G | A G | G G | G G |
| 30 | C G | C C | G G | A A | G G | C C | C C | A A | T T | A G | A G | A A | A G |
| 31 | G G | C C | G G | A A | G G | C C | C C | A T | T T | A G | A G | A A | A G |
| 32 | C C | C T | A G | A C | G G | C T | C T | T T | C T | A G | A G | A G | G G |
| 33 | C G | C C | G G | A A | G T | C C | C C | A T | T T | A A | A A | A A | A G |
| 34 | G G | C C | A A | C C | G G | C T | C T | A T | C T | A G | A G | A A | G G |
| 35 | C G | C C | A G | A C | G G | C C | C C | A A | C C | G G | G G | G G | A A |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 36 | G G | C C | G G | A A | G T | C C | C C | A T | T T | 0 0 | A A | A A | A A |
| 37 | 0 0 | 0 0 | A G | A C | T T | C C | C C | A T | C T | A G | A G | A A | 0 0 |
| 38 | G G | C C | A G | A C | G G | C C | C C | T T | T T | A A | A A | A G | G G |
| 39 | 0 0 | 0 0 | A A | C C | G T | C C | C C | A A | T T | A G | A G | A G | 0 0 |
| 40 | C G | C T | G G | A A | G T | C T | C T | T T | T T | A A | A G | A G | G G |
| 41 | 0 0 | 0 0 | G G | A A | G T | C C | C C | A T | T T | A A | A A | A A | 0 0 |
| 42 | C G | C T | A A | C C | G T | C C | C C | T T | C T | G G | G G | A G | A G |
| 43 | 0 0 | 0 0 | A G | A C | G T | C C | C C | A A | C T | G G | G G | A A | 0 0 |
| 44 | G G | C T | A G | A C | G G | C T | C T | A T | T T | A G | G G | A G | A G |
| 45 | C C | 0 0 | G G | A A | G T | C C | C C | A T | C T | G G | G G | A A | 0 0 |
| 46 | C G | C C | G G | A A | T T | C C | C C | A A | T T | A G | A G | A G | G G |
| 47 | 0 0 | 0 0 | G G | A A | G G | C C | C C | T T | T T | A G | A G | A G | G G |
| 48 | C G | C C | A G | A C | G G | C C | C C | A T | T T | A A | A A | A A | A G |
| 49 | G G | C C | A G | A C | G G | T T | T T | T T | T T | A A | A A | G G | G G |
| 50 | 0 0 | 0 0 | A G | A C | G T | C C | C C | A A | T T | A G | A G | A A | 0 0 |
| 51 | G G | C C | G G | A A | G G | C C | C C | A A | C T | A G | A G | A G | A G |
| 52 | 0 0 | 0 0 | A G | A C | G G | C T | C T | A T | T T | 0 0 | A G | A A | 0 0 |
| 53 | C G | C T | G G | A A | G T | C C | C C | A A | C T | G G | G G | G G | A A |
| 54 | 0 0 | 0 0 | A G | A C | G T | T T | T T | T T | C T | A G | A G | A G | 0 0 |
| 55 | C C | C T | A A | C C | G T | C C | C C | T T | C C | G G | G G | A G | A G |
| 56 | C C | 0 0 | G G | A A | G G | C T | C T | A T | C T | A G | A G | A A | 0 0 |
| 57 | G G | C C | A A | C C | G T | C T | T T | T T | T T | A A | A A | A A | G G |
| 58 | G G | C C | 0 0 | A C | G T | C C | C C | A A | C C | G G | G G | A G | A A |
| 59 | C G | C T | G G | A A | G T | C C | C C | A A | T T | G G | G G | A G | A G |
| 60 | C G | C C | 0 0 | A C | G G | C C | C C | A A | C T | G G | G G | A A | G G |
| 61 | C G | C T | A G | A C | G T | C T | C T | A T | T T | A A | A A | A A | G G |
| 62 | 0 0 | 0 0 | A A | C C | G G | C C | C C | A A | C T | A G | A G | A G | G G |
| 63 | G G | C C | A G | A C | G G | C C | C C | A T | C C | G G | G G | G G | A A |
| 64 | C C | C C | A A | C C | T T | C C | 0 0 | A T | C T | 0 0 | G G | 0 0 | A G |
| 65 | C G | C T | A A | C C | G G | C C | C C | A A | T T | A A | A A | A A | A G |
| 66 | G G | C T | A A | C C | G G | C C | 0 0 | A T | T T | 0 0 | A G | A G | G G |
| 67 | C G | C C | G G | A C | G G | T T | T T | T T | C T | A G | A G | A G | A G |
| 68 | C G | C C | G G | A A | G T | C C | C C | A T | T T | A G | A G | A G | G G |
| 69 | C G | C T | G G | A A | G T | C C | C T | T T | C T | G G | G G | A A | A A |
| 70 | C C | T T | A G | A C | G T | C C | C C | 0 0 | C T | 0 0 | 0 0 | A A | A A |
| 71 | G G | C C | A A | C C | G T | C C | C C | A T | C T | A G | A G | A G | G G |
| 72 | G G | C C | G G | A A | G G | C C | C C | T T | C T | A G | A G | A G | A G |
| 73 | C G | C T | A G | A C | G G | C C | C C | A A | T T | A G | A G | A G | A A |
| 74 | C G | C C | A G | A C | T T | C T | C T | A T | T T | A G | A G | A G | A G |
| 75 | C G | C T | A G | A C | G T | C T | C T | A T | C T | A G | A G | G G | G G |
| 76 | C G | C C | A G | A C | G T | C T | C T | T T | C T | A G | A G | A G | A A |
| 77 | G G | C C | A G | A A | G T | C C | C C | A T | T T | A G | A G | A G | A G |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 78 | C G | C C | G G | A A | G T | T T | T T | T T | T T | A G | A G | A G | A G |
| 79 | G G | C C | A A | C C | G T | C C | C C | A T | T T | A G | A G | A A | A G |
| 80 | C G | C T | G G | A A | G G | C T | C T | A T | C T | G G | G G | A G | A G |
| 81 | C G | C T | G G | A A | G T | C C | C C | A T | T T | A A | A A | A G | A G |
| 82 | C G | C C | A G | A C | G T | C T | T T | T T | C C | G G | G G | A A | A G |
| 83 | C C | C T | A G | A C | G G | C C | C C | A T | T T | A G | A G | A G | G G |
| 84 | G G | C C | A A | C C | G G | T T | T T | T T | C T | A G | A G | A G | G G |
| 85 | C G | C T | A G | A C | G T | C C | C C | A A | C T | G G | G G | A G | G G |
| 86 | G G | C C | G G | A A | G T | C C | C C | A T | C C | G G | G G | A G | A A |
| 87 | G G | C C | A A | C C | G T | C T | C T | T T | T T | G G | G G | A G | A G |
| 88 | C C | C C | A G | A C | G G | C C | C C | A A | C T | A G | A G | A G | A G |
| 89 | 0 0 | C T | A G | A C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | A A |
| 90 | G G | C C | A A | C C | G G | C T | C T | A T | C T | A G | G G | A A | A G |
| 91 | G G | C C | A A | C C | G G | C C | C C | A T | T T | A G | A G | A G | A G |
| 92 | G G | C C | G G | A A | G T | T T | T T | T T | C C | G G | G G | A G | A A |
| 93 | G G | C C | A G | A C | G G | C T | C T | A T | T T | A G | A G | A A | A A |
| 94 | C G | C T | G G | A A | G G | C C | C C | A A | C C | G G | G G | A A | A A |
| 95 | 0 0 | T T | G G | A A | G G | C T | C T | T T | C T | A G | A G | A A | A G |
| 96 | G G | C C | A A | C C | G G | C T | C T | A T | T T | A A | A G | A G | G G |
| 97 | C G | C T | A G | A C | G G | C C | C C | A T | C T | G G | G G | A G | A G |
| 98 | C G | C T | A G | A C | G T | C C | C C | A T | C T | G G | G G | A A | A G |
| 99 | C C | T T | A A | C C | G T | C C | C C | A T | C T | A G | A G | A A | A G |
| 100 | 0 0 | 0 0 | 0 0 | A C | 0 0 | C C | C C | A A | C T | G G | G G | A G | 0 0 |
| 101 | G G | C C | A A | C C | G G | C T | C T | T T | C T | G G | G G | A A | A G |
| 102 | C G | C C | A A | C C | G G | T T | T T | T T | C T | G G | G G | A G | G G |
| 103 | C G | C T | A G | C C | G G | C C | C C | A T | T T | A A | A A | A A | A G |
| 104 | C G | C C | G G | A A | G T | C C | C C | T T | C C | G G | G G | A G | A G |
| 105 | C G | C C | A G | A C | G T | C C | C C | A A | C T | A G | A G | A G | G G |
| 106 | G G | C C | A A | C C | G G | C C | C C | A A | T T | A A | A A | A A | A A |
| 107 | C G | C C | G G | A A | G G | C C | C C | 0 0 | C T | A G | A G | A A | A A |
| 108 | C G | C T | G G | A A | G T | C C | C C | A T | C T | A G | A G | A G | G G |
| 109 | C C | T T | A G | A C | G T | C T | C T | T T | C C | G G | G G | A G | G G |
| 110 | G G | C C | A G | A C | T T | C C | C C | A T | C T | A G | A G | A G | G G |
| 111 | G G | C C | G G | A A | T T | C C | C C | A T | C T | A G | A G | A G | G G |
| 112 | C G | C T | A G | 0 0 | G G | C T | C T | A T | C T | G G | G G | A A | A G |
| 113 | C G | C C | A G | A C | G G | C T | C T | A T | C T | A G | A G | A A | A G |
| 114 | G G | C C | G G | A A | G G | C T | C T | T T | C T | G G | G G | A G | A G |
| 115 | G G | C C | G G | A A | G T | C C | C C | A T | T T | G G | G G | A G | A G |
| 116 | C G | C T | A G | A C | G T | C T | T T | T T | T T | A G | A G | A A | A A |
| 117 | C G | C T | A G | A C | G G | C C | C C | A A | C C | G G | G G | A A | A G |
| 118 | G G | C C | A G | A C | G T | C C | C C | A T | C C | G G | G G | G G | A G |
| 119 | C G | C T | G G | A A | T T | C C | C C | A T | C C | G G | G G | A A | A A |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 120 | G G | C C | A G | C C | G T | C T | C T | A T | C T | A G | A G | A G | A G |
| 121 | C G | C T | G G | A A | T T | C C | C C | A T | C T | G G | G G | A G | G G |
| 122 | G G | C C | G G | A A | G T | C C | C C | A T | C T | G G | G G | A G | A G |
| 123 | G G | C C | G G | A A | T T | C C | C C | A A | T T | G G | G G | A G | A G |
| 124 | G G | C C | A G | A C | G T | C C | C T | T T | C T | A G | A G | A G | G G |
| 125 | 0 0 | C C | A G | A C | T T | C C | C C | A T | C T | G G | G G | A A | 0 0 |
| 126 | C G | C T | A G | A C | G T | C T | C T | T T | T T | G G | G G | A G | A G |
| 127 | C G | C T | A A | C C | G G | C C | C C | A T | T T | A A | A A | A A | A G |
| 128 | G G | C C | A G | A C | G G | C C | C C | A A | C C | G G | G G | A A | A A |
| 129 | 0 0 | C T | A G | A C | G T | C C | C C | T T | 0 0 | 0 0 | A A | A G | 0 0 |
| 130 | C G | C T | A G | A C | G G | C T | C T | A T | C T | A G | G G | A G | A G |
| 131 | 0 0 | C T | A A | C C | G G | C C | C C | A A | T T | A A | A A | A G | 0 0 |
| 132 | C G | C T | A G | A C | G G | C C | C C | A T | C T | A G | A G | A G | A G |
| 133 | C C | T T | 0 0 | 0 0 | 0 0 | C T | 0 0 | A T | 0 0 | 0 0 | A G | G G | A A |
| 134 | C C | T T | A G | A C | G T | C C | C C | A A | C T | G G | G G | G G | A G |
| 135 | 0 0 | C T | G G | A A | G T | C T | C T | A T | T T | A A | A G | A G | 0 0 |
| 136 | C C | C T | A G | C C | G G | C T | C T | A T | T T | A G | A G | A A | A G |
| 137 | C C | C T | A G | A A | G T | C C | C C | A A | C T | A G | A G | A A | A G |
| 138 | C G | C C | G G | A A | T T | C C | C C | T T | C T | A G | A G | A A | A G |
| 139 | G G | C C | A G | A C | G T | C C | C C | A T | C T | A G | A G | A A | A G |
| 140 | C G | C T | A G | A C | T T | C T | 0 0 | A T | C T | G G | G G | G G | A A |
| 141 | G G | C C | G G | A A | G G | C T | C T | T T | C T | A G | A G | A G | A G |
| 142 | C G | C T | G G | A A | G G | C C | C C | A T | T T | A A | A A | A G | A G |
| 143 | C G | C C | G G | A A | T T | C T | C T | A T | C T | G G | G G | G G | G G |
| 144 | C C | C T | A G | A C | G T | C T | C T | T T | C T | G G | G G | A A | A A |
| 145 | G G | C C | G G | A A | G T | C T | C T | A T | C T | G G | G G | A G | A G |
| 146 | C C | C T | G G | A A | G G | C T | C T | A T | T T | G G | G G | A G | G G |
| 147 | C C | C T | 0 0 | 0 0 | 0 0 | C C | C C | T T | T T | A G | A G | A A | A G |
| 148 | C C | T T | G G | A A | G T | C C | C C | T T | C T | G G | G G | A G | A G |
| 149 | G G | C C | A G | A C | G G | C T | C T | A T | T T | G G | G G | A G | A G |
| 150 | 0 0 | C T | A G | A C | G G | C T | C T | A T | C T | A G | A G | A G | 0 0 |
| 151 | G G | C C | G G | A A | T T | C T | C T | T T | C T | G G | G G | G G | A A |
| 152 | C G | C T | A G | A C | G G | C C | C C | A A | C T | A G | A G | A G | A G |
| 153 | C G | T T | A G | A C | T T | C T | C T | A T | C C | G G | G G | A G | A G |
| 154 | G G | C C | G G | A A | G G | C T | 0 0 | T T | 0 0 | 0 0 | G G | A G | G G |
| 155 | C G | C T | A A | C C | G G | C T | C T | T T | T T | A G | G G | A G | G G |
| 156 | C G | C T | G G | A A | G G | T T | T T | T T | C C | G G | G G | A A | A A |
| 157 | C C | C C | A G | A C | G T | C C | C C | A A | C T | A G | G G | G G | G G |
| 158 | C C | C C | G G | A A | 0 0 | C C | C C | A T | 0 0 | 0 0 | A G | A A | A G |
| 159 | C C | C T | A A | C C | G G | C T | C T | A T | C T | A A | A A | A G | G G |
| 160 | 0 0 | 0 0 | A A | C C | G G | C T | 0 0 | A T | 0 0 | 0 0 | G G | A A | 0 0 |
| 161 | G G | C C | A G | A C | G G | C C | C C | A A | T T | A G | G G | G G | G G |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 162 | C G | C T | A A | C C | G G | C C | C C | A T | C T | G G | G G | A A | A G |
| 163 | C C | C T | A G | A C | G T | T T | T T | T T | C T | G G | G G | A A | A A |
| 164 | C G | C T | A G | A C | G T | C T | C T | A T | C C | G G | G G | A G | A G |
| 165 | C G | C T | A G | A C | T T | C C | C C | A A | C T | A G | A G | A G | A G |
| 166 | C C | T T | G G | A A | T T | C C | C C | A T | C T | G G | G G | A G | G G |
| 167 | G G | C T | A G | A C | G T | C C | C C | A T | C T | A G | A G | A G | G G |
| 168 | G G | C C | A G | A C | G T | C T | C T | A T | C C | A G | A G | A A | A G |
| 169 | G G | C C | A G | A C | G G | C C | C C | T T | C T | G G | G G | A G | A G |
| 170 | C G | C T | G G | A C | G G | C C | C C | A T | T T | A G | A G | A G | A A |
| 171 | C G | C T | A G | A C | G T | T T | T T | T T | C T | A G | A G | A G | A G |
| 172 | C C | T T | A G | A C | G G | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 173 | G G | C C | A A | C C | G G | C C | C C | A T | C C | G G | G G | A G | G G |
| 174 | C G | C T | A G | A C | G T | C C | C C | A A | C T | G G | G G | A G | A G |
| 175 | C G | C C | A A | C C | G G | C T | C T | T T | C C | G G | G G | A G | A G |
| 176 | G G | C C | A G | A C | G G | C T | C T | T T | C T | A A | A A | A A | A G |
| 177 | G G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | G G | G G | A A | A A |
| 178 | C G | C T | 00 | 00 | G T | C C | C T | 00 | 00 | A A | A A | A A | G G |
| 179 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | 00 | G G | A G | A G |
| 180 | G G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | G G | G G | A G | A A |
| 181 | G G | C T | 00 | 00 | G G | C T | C T | 00 | 00 | 00 | 00 | G G | A G |
| 182 | C G | C T | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A A | G G | A G |
| 183 | G G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A A | A A | A G |
| 184 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | 00 | A G | G G |
| 185 | C G | C T | 00 | 00 | 00 | C C | C C | 00 | 00 | 00 | 00 | A A | A A |
| 186 | 00 | C C | 00 | 00 | G T | C C | C C | 00 | 00 | G G | 00 | A G | A G |
| 187 | C G | C T | 00 | 00 | G G | C C | C C | 00 | 00 | 00 | A A | A A | A G |
| 188 | G G | C T | 00 | 00 | G G | C C | C C | 00 | 00 | 00 | 00 | A G | A A |
| 189 | C G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | 00 | G G | A A | G G |
| 190 | G G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A G | A G | A A | A G |
| 191 | C G | C T | 00 | 00 | G G | C C | C C | 00 | 00 | G G | G G | G G | A G |
| 192 | G G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A G | G G | G G | A G |
| 193 | C G | C T | 00 | 00 | T T | C C | C C | 00 | 00 | A G | A G | G G | A G |
| 194 | C G | T T | 00 | 00 | G G | C T | C T | 00 | 00 | A A | A A | G G | A G |
| 195 | G G | C C | 00 | 00 | G T | T T | T T | 00 | 00 | G G | G G | A G | A G |
| 196 | G G | C C | 00 | 00 | T T | C C | C T | 00 | 00 | G G | G G | A A | A A |
| 197 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | G G | 00 | A G | A G |
| 198 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A A | A A | A G | A G |
| 199 | C C | T T | 00 | 00 | G T | C T | C T | 00 | 00 | 00 | 00 | A A | G G |
| 200 | C G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A A | A G | G G |
| 201 | G G | C C | 00 | 00 | T T | C C | C C | 00 | 00 | A A | A G | A G | G G |
| 202 | C G | C T | 00 | 00 | T T | C C | C C | 00 | 00 | G G | G G | A A | A G |
| 203 | C G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | G G | 00 | A G | G G |

| | | | | | | | | | | | | | |
|-----|-----|-----|----|----|-----|-----|-----|----|----|-----|-----|-----|-----|
| 204 | C C | C T | 00 | 00 | G G | C C | C C | 00 | 00 | G G | G G | A A | 00 |
| 205 | C G | C T | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A A | A G | G G |
| 206 | C G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A A | A A | A G | A G |
| 207 | G G | C C | 00 | 00 | T T | C T | C T | 00 | 00 | A G | A A | G G | A G |
| 208 | 00 | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A A | A G | 00 |
| 209 | G G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A A | A G | A A |
| 210 | 00 | C C | 00 | 00 | G G | C C | C C | 00 | 00 | G G | 00 | A G | A G |
| 211 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A A | A A | A A |
| 212 | C G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A A | A G | G G |
| 213 | G G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A A | A G | A G |
| 214 | C C | T T | 00 | 00 | T T | C C | C C | 00 | 00 | A G | A G | A G | A G |
| 215 | C G | C T | 00 | 00 | T T | C T | C T | 00 | 00 | A G | A G | A A | A A |
| 216 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A G | A G | G G |
| 217 | C G | C T | 00 | 00 | T T | T T | T T | 00 | 00 | A A | A G | A A | A A |
| 218 | C G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | G G | G G | A G | A G |
| 219 | G G | C C | 00 | 00 | T T | C T | C T | 00 | 00 | A G | A G | A G | A A |
| 220 | G G | C C | 00 | 00 | T T | C C | C C | 00 | 00 | G G | G G | G G | G G |
| 221 | C C | C T | 00 | 00 | G G | C C | C C | 00 | 00 | A G | 00 | A G | G G |
| 222 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A A | A G | A A |
| 223 | G G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A G | A G | A G | A A |
| 224 | G G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | 00 | G G | A A | G G |
| 225 | C G | C T | 00 | 00 | G G | C C | C T | 00 | 00 | A A | A A | A A | A A |
| 226 | C G | C C | 00 | 00 | T T | T T | T T | 00 | 00 | G G | G G | G G | G G |
| 227 | C C | C T | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A G | A A | G G |
| 228 | G G | C C | 00 | 00 | T T | C C | C C | 00 | 00 | A G | A G | A G | G G |
| 229 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A G | A G | G G | A G |
| 230 | C G | C T | 00 | 00 | T T | C C | C C | 00 | 00 | A A | A A | A A | 00 |
| 231 | C G | C T | 00 | 00 | G T | T T | T T | 00 | 00 | A G | A G | A G | A G |
| 232 | 00 | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | 00 | G G | A G |
| 233 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A A | A A | A G | A G |
| 234 | C C | C T | 00 | 00 | G G | C T | T T | 00 | 00 | G G | 00 | A G | A A |
| 235 | C G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A G | A G | A G |
| 236 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A G | A G | G G | G G |
| 237 | C G | C T | 00 | 00 | G T | T T | T T | 00 | 00 | G G | G G | 00 | G G |
| 238 | C G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A G | A A | A A |
| 239 | C C | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A G | A G | A G | A G |
| 240 | C C | T T | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A G | A G | A G |
| 241 | G G | C T | 00 | 00 | G G | C T | C T | 00 | 00 | A G | A A | A G | A A |
| 242 | G G | C T | 00 | 00 | G G | C C | C T | 00 | 00 | A G | A A | A G | A G |
| 243 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A G | A G | A G |
| 244 | G G | C C | 00 | 00 | T T | C C | C C | 00 | 00 | G G | 00 | A G | A G |
| 245 | G G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | A G | A G | A G | G G |

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|-----|-----|-----|----|----|-----|-----|-----|----|----|-----|-----|-----|-----|
| 246 | G G | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A A | A A | A G | A G |
| 247 | C G | C C | 00 | 00 | G T | C C | C T | 00 | 00 | A A | A A | A A | G G |
| 248 | G G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | A G | 00 | A A | A G |
| 249 | C G | C T | 00 | 00 | G G | C C | C C | 00 | 00 | 00 | A G | A A | G G |
| 250 | C G | C T | 00 | 00 | G G | C C | C T | 00 | 00 | A G | G G | A A | A G |
| 251 | C G | C T | 00 | 00 | T T | C C | C C | 00 | 00 | A G | A G | A A | A G |
| 252 | C G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | G G | G G | A G | A A |
| 253 | C G | C C | 00 | 00 | G G | T T | T T | 00 | 00 | G G | G G | A G | A G |
| 254 | C C | C C | 00 | 00 | G G | C C | C C | 00 | 00 | A G | A G | A G | A G |
| 255 | G G | C C | 00 | 00 | G T | C T | C T | 00 | 00 | A G | A A | A A | A G |
| 256 | C G | C C | 00 | 00 | G T | C C | C C | 00 | 00 | A G | A A | A A | G G |
| 257 | C C | C T | 00 | 00 | G T | C T | C T | 00 | 00 | A G | 00 | A G | A A |
| 258 | C C | C C | 00 | 00 | G G | C T | C T | 00 | 00 | A G | A G | A G | G G |
| 259 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | A G | A G | A G | G G |
| 260 | C G | C T | 00 | 00 | G T | C C | C C | 00 | 00 | G G | G G | G G | A G |
| 261 | G G | C C | 00 | 00 | G G | 00 | 00 | 00 | 00 | 00 | 00 | 00 | A G |
| 262 | C G | C T | 00 | 00 | G G | C T | C T | 00 | 00 | A A | A A | A A | G G |
| 263 | C G | C T | 00 | 00 | G T | C T | C T | 00 | 00 | G G | G G | A A | A A |
| 264 | G G | C C | 00 | 00 | G G | C C | C C | 00 | 00 | G G | G G | G G | A G |
| 265 | CG | CC | 00 | CC | TT | CT | CT | TT | CT | GG | GG | AA | AG |
| 266 | GG | CC | 00 | CC | GG | CC | CC | AT | TT | AA | AG | AG | GG |
| 267 | CG | CC | 00 | AA | GG | TT | TT | TT | TT | AA | AA | AA | GG |
| 268 | CG | CC | 00 | AA | GT | TT | TT | TT | CT | GG | GG | AA | AG |
| 269 | CC | CT | 00 | AA | TT | CC | CC | AT | CT | GG | GG | AG | AG |
| 270 | CC | CT | 00 | AC | GG | CT | CT | AT | CT | AG | AG | GG | AG |
| 271 | GG | CC | 00 | CC | GT | CT | CT | TT | CC | GG | GG | GG | AA |
| 272 | CG | CT | 00 | AC | GG | CT | CT | AT | TT | AG | GG | GG | AG |
| 273 | CG | CC | 00 | AC | GG | CC | CC | AT | CC | GG | GG | GG | AA |
| 274 | GG | CC | 00 | AA | GT | CT | CT | AT | TT | AG | AG | AG | AG |
| 275 | GG | CC | 00 | CC | GG | CT | CT | 00 | CT | 00 | AG | AG | AG |
| 276 | GG | CC | 00 | AA | TT | 00 | 00 | 00 | 00 | 00 | 00 | 00 | AG |
| 277 | GG | CT | 00 | AC | GT | CT | CT | TT | CT | GG | GG | AG | AG |
| 278 | CC | TT | 00 | AA | GG | CC | CC | AA | TT | GG | GG | AA | GG |
| 279 | GG | CC | 00 | AA | GG | CC | CC | AT | CT | AG | AG | AG | GG |
| 280 | CG | CC | 00 | CC | GG | CT | CT | AT | TT | GG | GG | AG | AG |
| 281 | CG | CC | 00 | AC | GG | CT | CT | TT | CT | AG | AG | AG | GG |
| 282 | GG | CC | 00 | AA | GT | CC | CC | TT | CT | AG | AG | AA | AG |
| 283 | GG | CT | 00 | CC | GT | CC | CC | AT | CT | GG | GG | AG | AG |
| 284 | GG | CC | 00 | AC | GG | CC | CC | AA | TT | AG | AG | GG | GG |

| GENE | CASP6 | CASP6 | CASP6 | CASP6 | CASP6 | TCERG1 | TCERG1 | TCERG1 | TCERG1 | TCERG1 | TCERG1 | TCERG1 | TCERG1 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|----------|-----------|-----------|
| SNP/Sample | rs5030606 | rs3181191 | rs2301717 | rs5030539 | rs3181187 | rs1991800 | rs2082407 | rs11747475 | rs11743333 | rs10068201 | rs962591 | rs2241697 | rs3822506 |
| 1 | C T | T T | 00 | C C | G G | C C | T T | A G | A G | A G | A C | A G | C C |
| 2 | T T | T T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 3 | T T | T T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 4 | C T | T T | 00 | C C | G G | C C | C T | A A | A A | A A | A A | G G | C C |
| 5 | C C | C C | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 6 | C C | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 7 | C T | C T | 00 | C T | A G | 00 | C C | A A | A G | A G | A C | A G | C C |
| 8 | T T | T T | 00 | C C | G G | 00 | C T | A A | A G | A G | A C | A G | C C |
| 9 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 10 | C T | T T | 00 | C C | A G | C C | C C | A A | A G | A A | A A | A G | C C |
| 11 | T T | T T | 00 | C C | G G | C T | C T | A G | A G | A G | A C | A G | C T |
| 12 | T T | T T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 13 | T T | T T | 00 | C C | G G | C T | C T | A A | A A | A A | A A | G G | C C |
| 14 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C T |
| 15 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 16 | C C | C C | 00 | T T | A A | C T | T T | A G | A A | A A | A A | G G | C C |
| 17 | T T | T T | 00 | C C | G G | T T | T T | A G | A G | A G | A C | A G | C C |
| 18 | C T | T T | 00 | C T | A G | C C | C C | A A | A G | A A | A A | A G | C C |
| 19 | T T | T T | 00 | C C | G G | 00 | C T | A G | A G | A G | A C | A G | C C |
| 20 | T T | T T | 00 | C C | G G | 00 | T T | G G | G G | G G | C C | A A | C C |
| 21 | T T | T T | 00 | C C | G G | C T | C T | A G | G G | G G | C C | A A | C T |
| 22 | C T | C T | 00 | C T | A G | C C | C T | A A | A A | A A | A A | G G | C C |
| 23 | T T | T T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 24 | C T | T T | 00 | C C | G G | C T | C T | A G | A A | A A | A A | G G | C C |
| 25 | C T | C T | 00 | C T | A G | C T | C T | A G | A G | A G | A C | A G | C T |
| 26 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 27 | C C | C T | 00 | C T | A G | C C | C T | A G | G G | A G | A C | A A | C T |
| 28 | T T | T T | 00 | C C | G G | C T | C T | A G | A A | A A | A A | G G | C C |
| 29 | C C | C C | 00 | T T | A A | C C | C T | A G | A G | A A | A A | A G | C C |
| 30 | T T | T T | 00 | C C | G G | C C | C T | A G | A G | A G | A C | A G | C T |

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|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 31 | C T | C T | 00 | C T | A G | 00 | C T | A G | A G | A G | A C | A G | C C |
| 32 | T T | T T | 00 | C C | G G | 00 | C C | A A | A G | A G | A C | A G | C T |
| 33 | C T | C T | 00 | C T | A G | C C | C C | A A | G G | A G | A C | A A | C T |
| 34 | C C | C C | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 35 | C C | C C | 00 | T T | A A | C C | C C | A A | A A | A A | A A | G G | C C |
| 36 | C T | C T | 00 | C T | A G | C C | C C | A A | G G | G G | C C | A A | C T |
| 37 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | 00 | 00 | A G | C T |
| 38 | C C | C C | 00 | T T | A A | C C | C T | A G | A A | A A | A A | G G | C C |
| 39 | C C | C T | 00 | C T | A G | 00 | C T | 00 | A A | 00 | 00 | G G | C C |
| 40 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 41 | C T | C T | 00 | C T | A G | 00 | C C | 00 | A A | 00 | 00 | G G | C C |
| 42 | T T | T T | 00 | C C | G G | C T | T T | A G | A G | A A | A A | A G | C C |
| 43 | C T | C T | 00 | C T | A G | 00 | C C | 00 | A A | 00 | 00 | G G | C C |
| 44 | C C | C C | 00 | T T | A A | C C | T T | G G | A A | A A | A A | G G | C C |
| 45 | C T | C T | 00 | C T | A G | C C | C T | A G | A G | A A | A A | A G | C C |
| 46 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 47 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A A | A A | G G | C C |
| 48 | C C | C C | 00 | C T | A G | C C | T T | A G | A G | A G | A C | A G | C T |
| 49 | T T | T T | 00 | C C | G G | T T | T T | A A | G G | G G | C C | A A | C C |
| 50 | T T | T T | 00 | C C | G G | 00 | C C | 00 | G G | 00 | 00 | A A | C T |
| 51 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 52 | T T | T T | 00 | C C | G G | 00 | C C | 00 | G G | 00 | 00 | A A | C T |
| 53 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A A | A A | A G | C C |
| 54 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | 00 | 00 | A G | C C |
| 55 | C C | C C | 00 | T T | A A | 00 | T T | G G | A G | A G | A C | A G | C C |
| 56 | C T | C T | 00 | C T | A G | 00 | T T | A A | A A | 00 | A A | G G | C C |
| 57 | C T | C T | 00 | C T | A G | C T | C T | A A | A G | A A | A A | A G | C C |
| 58 | T T | T T | 00 | C C | G G | C T | T T | A A | A A | A A | A A | G G | C C |
| 59 | C C | C T | 00 | C T | A G | C C | C T | A G | A A | A A | A A | G G | C C |
| 60 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | A A | G G | C C |
| 61 | C T | C T | 00 | T T | A A | C C | C T | A G | A G | A G | A C | A G | C C |
| 62 | T T | T T | 00 | C T | A G | C C | C C | A A | A G | 00 | 00 | A G | C T |
| 63 | C T | C T | 00 | C T | A G | T T | T T | G G | G G | A G | A C | A A | C C |

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|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64 | T T | T T | 00 | 00 | 00 | C C | C C | A A | A G | A G | A C | 00 | C T |
| 65 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 66 | T T | T T | 00 | C T | G G | C C | C C | A A | G G | G G | 00 | 00 | C C |
| 67 | T T | T T | 00 | C C | G G | 00 | C C | A A | A G | A G | A C | A G | C C |
| 68 | C T | C T | 00 | C T | A G | 00 | C C | A A | A G | A G | A C | A G | C T |
| 69 | C C | C C | 00 | T T | A A | C T | C T | A G | A G | A G | A C | A G | C C |
| 70 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 71 | C T | C T | 00 | C T | A G | C C | T T | G G | A G | A G | A C | A G | C C |
| 72 | C T | C T | 00 | C T | A G | C T | T T | G G | A G | A G | A C | A G | C C |
| 73 | C T | C T | 00 | T T | A A | C C | C T | A A | A A | A A | A A | G G | C C |
| 74 | C T | C T | 00 | C T | A G | C T | C T | A G | A G | A G | A C | A G | C C |
| 75 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | A A | G G | C C |
| 76 | C C | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C C |
| 77 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 78 | C C | C C | 00 | T T | A A | C T | C T | A A | A A | A A | A A | G G | C C |
| 79 | C T | C T | 00 | C T | A G | 00 | C C | A A | A A | A A | A A | G G | C C |
| 80 | T T | T T | 00 | C T | A G | 00 | C C | A A | A A | A A | A A | G G | C C |
| 81 | C C | C C | 00 | T T | A A | C T | C T | A A | A A | A A | A A | G G | C C |
| 82 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 83 | C C | C C | 00 | T T | A A | C T | C T | A G | G G | G G | C C | A A | C T |
| 84 | C T | C T | 00 | C T | A G | C C | C C | A A | G G | G G | C C | A A | C T |
| 85 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C C |
| 86 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C C |
| 87 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 88 | T T | T T | 00 | C C | G G | 00 | C C | A A | A G | A G | A C | A G | C T |
| 89 | 00 | C T | 00 | 00 | 00 | C C | 00 | A A | 00 | A A | A A | 00 | C T |
| 90 | C C | T T | 00 | C C | G G | C C | C T | G G | A G | A G | A C | A G | C T |
| 91 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C C |
| 92 | C T | C T | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C T |
| 93 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 94 | T T | T T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 95 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 96 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A A | A A | A G | C C |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 97 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C T |
| 98 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 99 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 100 | C T | 00 | 00 | C C | G G | 00 | 00 | 00 | A A | 00 | 00 | G G | C C |
| 101 | T T | T T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 102 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 103 | C T | C T | 00 | C T | A G | C C | 00 | A G | A G | A A | A A | G G | C C |
| 104 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 105 | C C | C T | 00 | C T | A G | C C | C T | A G | A A | A A | A A | G G | C C |
| 106 | T T | T T | 00 | C C | G G | C C | C T | A A | G G | A G | A C | A G | C C |
| 107 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C C |
| 108 | C C | C C | 00 | T T | A A | C T | C T | A A | A A | A A | A A | G G | C C |
| 109 | C C | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 110 | C T | C T | 00 | C T | A G | C T | C T | A G | G G | A G | A C | A A | C T |
| 111 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 112 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A A | A A | A G | C C |
| 113 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 114 | C C | C C | 00 | T T | A A | C C | C T | A G | A G | A G | A C | A G | C C |
| 115 | T T | T T | 00 | C C | G G | C C | C T | A G | G G | A G | A C | A A | C C |
| 116 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 117 | C C | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C C |
| 118 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 119 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 120 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 121 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A A | A A | A G | C C |
| 122 | C C | C C | 00 | T T | A A | C T | C T | A G | A A | A A | A A | G G | C C |
| 123 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | A A | G G | C C |
| 124 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 125 | C C | T T | 00 | C C | G G | C C | C T | A G | A A | 00 | A A | G G | C C |
| 126 | C C | C T | 00 | 00 | 00 | C T | C T | A G | A A | A A | A A | G G | C C |
| 127 | C T | C T | 00 | C T | A G | C T | C T | A A | A A | A A | A A | G G | C C |
| 128 | C C | C C | 00 | C T | A G | T T | T T | G G | G G | A G | A C | A A | C C |
| 129 | C T | C T | 00 | 00 | 00 | C C | C C | A A | 00 | 00 | A A | G G | C C |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 130 | C C | C C | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 131 | C C | C C | 00 | T T | A A | C C | C C | A A | A A | 00 | A A | G G | C C |
| 132 | T T | T T | 00 | C C | G G | C T | C T | A G | A G | A G | A C | A G | C C |
| 133 | C T | 00 | 00 | 00 | 00 | C T | 00 | A A | 00 | A A | A A | G G | 00 |
| 134 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C C |
| 135 | C T | C T | 00 | C T | A G | C C | C T | A G | A G | 00 | 00 | A G | C T |
| 136 | T T | T T | 00 | C C | G G | C C | C T | A A | A A | A A | A A | G G | C C |
| 137 | T T | T T | 00 | C C | G G | C C | C T | A G | A A | A A | A A | G G | C C |
| 138 | C T | C T | 00 | C T | A G | C C | C T | A G | A G | A A | A A | A G | C C |
| 139 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C C |
| 140 | T T | T T | 00 | T T | A A | C T | C T | A G | A G | A G | A C | 00 | C C |
| 141 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 142 | C C | C T | 00 | C T | A G | C C | C C | A A | G G | G G | C C | A A | T T |
| 143 | C T | C T | 00 | C T | A G | C T | C T | A G | A G | A G | A C | A G | C C |
| 144 | C C | C C | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 145 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 146 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 147 | C T | 00 | 00 | C T | A G | C C | 00 | A A | G G | A G | A C | A A | 00 |
| 148 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 149 | T T | T T | 00 | C C | G G | C C | C T | A A | A A | A A | A A | G G | C C |
| 150 | T T | T T | 00 | C T | A G | C C | C C | A A | A A | 00 | A A | G G | C C |
| 151 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 152 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C T |
| 153 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | A C | A G | C C |
| 154 | C T | C T | 00 | 00 | 00 | C T | C T | A G | 00 | A A | A A | G G | C C |
| 155 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | A C | A G | C C |
| 156 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | A C | A G | C T |
| 157 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 158 | C C | C C | 00 | 00 | A A | C C | C C | A A | 00 | 00 | A A | G G | C C |
| 159 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 160 | T T | T T | 00 | 00 | 00 | 00 | C C | 00 | 00 | 00 | 00 | G G | C C |
| 161 | T T | T T | 00 | C C | G G | C C | C T | A A | A A | A A | A A | G G | C C |
| 162 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | A A | G G | C C |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 163 | C C | T T | 00 | C C | G G | C C | C T | A G | A A | A A | A A | G G | C C |
| 164 | C C | C C | 00 | T T | A A | C C | C T | A A | A A | A A | A A | G G | C C |
| 165 | T T | T T | 00 | C C | G G | C T | T T | G G | A G | A G | A C | A G | C C |
| 166 | C T | T T | 00 | C C | G G | C C | C C | A A | G G | A A | A A | A A | C C |
| 167 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | A A | G G | C C |
| 168 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | A A | G G | C C |
| 169 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 170 | C C | C C | 00 | C C | G G | C C | C C | A A | A A | A A | A A | G G | C C |
| 171 | C T | C T | 00 | T T | A A | C T | C T | A G | G G | A G | A C | A A | C T |
| 172 | 00 | T T | 00 | 00 | 00 | C C | C C | A A | 00 | A G | A C | 00 | C T |
| 173 | T T | T T | 00 | C C | G G | C C | C T | A G | A G | A A | A A | A G | C C |
| 174 | C T | C T | 00 | C T | A G | C C | C T | A G | A A | A A | A A | G G | C C |
| 175 | C C | C C | 00 | T T | A A | C C | C T | A G | A A | A A | A A | G G | C C |
| 176 | T T | T T | 00 | C C | G G | C T | C T | A G | A A | A A | A A | G G | C C |
| 177 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | 00 |
| 178 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | 00 |
| 179 | C C | C C | 00 | T T | A A | C C | C T | A G | G G | 00 | 00 | A A | 00 |
| 180 | C T | C T | 00 | C T | A G | C T | C C | A G | A A | A A | 00 | G G | 00 |
| 181 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A A | 00 | A G | 00 |
| 182 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | 00 |
| 183 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | 00 | A G | 00 |
| 184 | C T | C T | 00 | C C | G G | C C | T T | G G | G G | G G | 00 | A A | 00 |
| 185 | T T | 00 | 00 | C C | G G | C T | 00 | A G | A G | A G | 00 | A G | 00 |
| 186 | T T | T T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 187 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | 00 | 00 | G G | 00 |
| 188 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 189 | T T | T T | 00 | C C | G G | C C | C C | A G | A G | A G | 00 | A G | 00 |
| 190 | T T | T T | 00 | C C | G G | C T | C C | A A | A A | A A | 00 | G G | C C |
| 191 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A A | 00 | A G | 00 |
| 192 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | 00 |
| 193 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | 00 |
| 194 | C T | T T | 00 | C C | G G | C T | C T | A A | A A | A A | 00 | G G | C C |
| 195 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 196 | C T | C T | 00 | T T | A A | C C | C C | A A | A G | A G | 00 | A G | C T |
| 197 | C C | C T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 198 | C C | C C | 00 | 00 | A A | C C | C C | A A | A G | A A | 00 | A G | C C |
| 199 | C C | C T | 00 | C T | A G | C T | C T | A G | A A | A A | 00 | G G | C C |
| 200 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 201 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 202 | C C | C C | 00 | T T | A A | C C | C T | A G | A G | A G | 00 | A G | C C |
| 203 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | 00 |
| 204 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 205 | C T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 206 | T T | T T | 00 | C C | G G | C T | C T | A G | A G | A G | 00 | A G | C C |
| 207 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 208 | T T | T T | 00 | C C | G G | C T | C T | A A | A A | A A | 00 | G G | C C |
| 209 | T T | T T | 00 | C C | G G | C T | C T | A A | A A | A A | 00 | G G | 00 |
| 210 | T T | T T | 00 | C C | G G | C T | C T | A A | A A | A A | 00 | G G | C C |
| 211 | T T | T T | 00 | C T | A G | C T | C T | A G | G G | G G | 00 | A A | C T |
| 212 | T T | T T | 00 | C T | A G | C T | T T | A G | A G | A G | 00 | A G | C C |
| 213 | C T | C T | 00 | C T | A G | C T | C T | A A | A A | A A | 00 | G G | C C |
| 214 | T T | T T | 00 | C C | G G | C T | C T | A G | A G | A G | 00 | A G | C C |
| 215 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 216 | C T | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | C C |
| 217 | T T | T T | 00 | T T | A A | C C | C T | A A | A G | A G | 00 | A G | C T |
| 218 | T T | T T | 00 | C T | A G | C T | C T | A G | A G | A G | 00 | A G | C T |
| 219 | C C | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 220 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 221 | T T | T T | 00 | C C | G G | C C | C T | A G | A A | A A | 00 | G G | C C |
| 222 | C T | C T | 00 | C T | A G | C T | C T | A A | A A | A A | 00 | G G | C C |
| 223 | C T | C T | 00 | T T | A A | C C | C T | A G | A G | A G | 00 | A G | C C |
| 224 | 00 | C T | 00 | 00 | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 225 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 226 | T T | T T | 00 | C C | G G | T T | T T | A G | A G | A G | 00 | A G | C C |
| 227 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 228 | T T | T T | 00 | C C | G G | C T | C T | A G | G G | G G | 00 | A A | C C |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 229 | C T | C T | 00 | C T | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 230 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | 00 | C T |
| 231 | C C | C T | 00 | C C | G G | C T | C T | A A | A G | A G | 00 | A G | C C |
| 232 | C C | C T | 00 | C T | A G | C C | 00 | A A | A G | A G | 00 | A G | C T |
| 233 | C C | C C | 00 | T T | A A | C C | C C | A A | A A | A A | 00 | G G | C C |
| 234 | T T | T T | 00 | C T | G G | C C | C T | A G | A A | A A | 00 | G G | C C |
| 235 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 236 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 237 | T T | T T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 238 | C T | C T | 00 | C C | G G | C T | C T | A G | A G | A G | 00 | A G | C T |
| 239 | T T | T T | 00 | C C | G G | C T | T T | G G | A A | A A | 00 | G G | C C |
| 240 | C T | C T | 00 | C T | A G | C T | C T | A G | A A | A A | 00 | G G | C C |
| 241 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 242 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C C |
| 243 | T T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 244 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 245 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 246 | C C | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 247 | T T | T T | 00 | C T | A G | C C | C T | A G | A G | A A | 00 | A G | C C |
| 248 | C T | C T | 00 | T T | A A | C C | C C | A A | A G | A G | 00 | A G | C C |
| 249 | T T | T T | 00 | C C | G G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 250 | C T | C T | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 251 | C C | C C | 00 | T T | A A | C C | C C | A A | A A | A A | 00 | G G | C C |
| 252 | C C | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | C T |
| 253 | C C | C C | 00 | C T | A G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 254 | C C | C T | 00 | C T | A G | C C | C C | A A | A G | A G | 00 | A G | C C |
| 255 | C C | C C | 00 | T T | A A | C C | C C | A A | A G | A G | 00 | A G | C T |
| 256 | C T | T T | 00 | C C | G G | C C | C C | A A | A A | A A | 00 | G G | C C |
| 257 | T T | T T | 00 | C T | A G | C T | C T | A G | A G | A A | 00 | A G | C C |
| 258 | C C | C C | 00 | T T | A A | C C | 00 | A A | A G | A G | 00 | A G | C C |
| 259 | T T | T T | 00 | C C | G G | T T | T T | G G | G G | G G | 00 | A A | C C |
| 260 | C T | C T | 00 | C T | A G | C T | C T | A G | A G | A G | 00 | A G | C C |
| 261 | 00 | C T | 00 | 00 | 00 | C T | C T | A G | 00 | A G | 00 | 00 | C C |

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|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 262 | C C | C C | 00 | T T | A A | C C | C C | A A | A A | A A | 00 | G G | C C |
| 263 | C T | C T | 00 | C T | A G | C C | C T | A G | A G | A G | 00 | A G | C T |
| 264 | C T | C T | 00 | C T | A G | C C | C T | A A | A A | A A | 00 | G G | C C |
| 265 | CT | CT | 00 | TT | AA | CC | CC | AA | AG | AG | AC | AG | CT |
| 266 | TT | TT | 00 | CT | AG | CC | CC | AA | AA | AA | AA | GG | CC |
| 267 | CT | CT | 00 | CT | AG | CC | CC | AA | AA | AA | AA | GG | CC |
| 268 | TT | TT | 00 | CC | GG | CT | CT | AG | AG | AG | AC | AG | CC |
| 269 | CC | CC | 00 | CT | AG | CT | TT | AG | AA | AA | AA | GG | CC |
| 270 | TT | TT | 00 | CT | AG | CC | CC | AA | AG | AA | AA | AG | CC |
| 271 | TT | TT | 00 | CT | AG | CT | CT | AG | AG | AG | AC | AG | CC |
| 272 | CT | CT | 00 | CT | AG | CC | CC | AA | AA | AA | AA | GG | CC |
| 273 | TT | TT | 00 | CC | GG | CC | CT | AG | AA | AA | AA | GG | CC |
| 274 | CC | CC | 00 | TT | AA | CT | CT | AG | AG | AA | AA | AG | CC |
| 275 | CC | CC | 00 | TT | AA | CC | CT | AG | AG | AG | AC | AG | CT |
| 276 | 00 | CC | 00 | 00 | 00 | CC | CC | AA | 00 | AA | AA | 00 | CC |
| 277 | CC | TT | 00 | CC | GG | CC | CC | AA | AA | AA | AA | GG | CC |
| 278 | TT | TT | 00 | CT | AG | CC | CC | AA | AG | AA | AA | AG | CC |
| 279 | CC | CC | 00 | TT | AA | CC | CC | AA | GG | AA | AA | AA | CC |
| 280 | CT | CT | 00 | CT | AG | CC | CT | AG | AG | AG | AC | AG | CC |
| 281 | TT | TT | 00 | CC | GG | CT | CT | AG | AA | AA | AA | GG | CC |
| 282 | TT | TT | 00 | CC | GG | CC | CC | AA | AA | AA | AA | GG | CC |
| 283 | CC | CT | 00 | CT | AG | CC | CC | AA | AA | AA | AA | GG | CC |
| 284 | TT | TT | 00 | CC | GG | CC | CT | AG | AG | AG | AC | AG | CC |

| GENE | GRIK2 | GRIK2 | GRIK2 | GRIK2 | GRIK2 | GRIK2 | GRIK2 | GRIK2 | SGK1 | SGK1 | SGK1 | HIP1 | HIP1 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SNP/Sample | rs2518344 | rs6930752 | rs3213607 | rs2852612 | rs2852619 | rs2782901 | rs1232241 | rs3849205 | rs9402571 | rs1057293 | rs1743966 | rs1167801 | rs6962352 |
| 1 | 0 0 | A A | C C | 0 0 | G G | T T | T T | C C | T T | C C | T T | T T | 0 0 |
| 2 | 0 0 | A C | C C | A C | A A | C T | C T | C T | T T | C T | C T | T T | 0 0 |
| 3 | 0 0 | C C | C C | A C | A A | T T | C T | C C | T T | C C | T T | T T | 0 0 |
| 4 | 0 0 | A C | A C | A A | A A | C T | C C | C T | G T | C C | C T | T T | 0 0 |
| 5 | 0 0 | C C | C C | A C | A G | C T | C T | C T | T T | C C | T T | C T | 0 0 |
| 6 | 0 0 | A C | A C | A A | A A | C T | C T | C C | T T | C C | T T | T T | 0 0 |
| 7 | 0 0 | A A | C C | 0 0 | A G | T T | T T | C T | T T | C C | T T | T T | 0 0 |
| 8 | 0 0 | C C | C C | 0 0 | A A | C T | C T | C T | G T | C C | T T | T T | 0 0 |
| 9 | 0 0 | C C | C C | A A | A A | C C | C C | C C | G T | C C | T T | T T | 0 0 |
| 10 | 0 0 | C C | C C | A C | A G | T T | C C | C T | G G | C C | T T | T T | 0 0 |
| 11 | 0 0 | A C | C C | 0 0 | G G | T T | C T | C T | G T | C C | T T | C C | 0 0 |
| 12 | 0 0 | C C | A C | 0 0 | A A | C T | T T | C C | G T | 0 0 | T T | C T | 0 0 |
| 13 | 0 0 | A C | C C | A A | A A | C T | C C | C T | G T | C C | C T | T T | 0 0 |
| 14 | 0 0 | A C | C C | A C | A G | C T | C T | C T | T T | C C | T T | T T | 0 0 |
| 15 | 0 0 | C C | C C | A A | A A | C C | C C | C C | T T | C C | C T | T T | 0 0 |
| 16 | 0 0 | A C | C C | A C | A A | T T | T T | C T | G T | C C | 0 0 | T T | 0 0 |
| 17 | 0 0 | A C | C C | A C | A G | C T | C T | C T | T T | C C | T T | C C | 0 0 |
| 18 | 0 0 | A C | C C | A C | A A | C T | C T | T T | T T | C C | C T | T T | 0 0 |
| 19 | 0 0 | A C | C C | A C | A G | C T | C T | C C | T T | C C | T T | C T | 0 0 |
| 20 | 0 0 | A C | C C | A A | A A | T T | C T | C T | T T | C T | C T | T T | 0 0 |
| 21 | 0 0 | A C | C C | A C | A G | C T | C T | C C | T T | C C | T T | T T | 0 0 |
| 22 | 0 0 | A C | C C | A C | A A | T T | T T | C C | G T | C C | T T | T T | 0 0 |
| 23 | 0 0 | C C | C C | A A | A A | C T | C T | C T | G T | C C | T T | C T | 0 0 |
| 24 | 0 0 | A C | C C | A C | A G | T T | C T | C T | G T | C C | T T | T T | 0 0 |
| 25 | 0 0 | C C | C C | C C | A G | T T | T T | C T | T T | C T | C T | T T | 0 0 |
| 26 | 0 0 | A C | C C | A C | A G | C T | C T | C C | T T | C C | T T | T T | 0 0 |
| 27 | 0 0 | C C | C C | A C | A G | C T | T T | C C | T T | C T | C T | T T | 0 0 |
| 28 | 0 0 | C C | C C | A C | A G | C T | C T | C T | G T | C C | C T | T T | 0 0 |
| 29 | 0 0 | C C | C C | A C | A G | C T | C T | C T | T T | C T | C T | T T | 0 0 |
| 30 | 0 0 | A C | C C | A C | A G | C T | C T | C C | T T | C T | C T | T T | 0 0 |

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|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 31 | 00 | A C | A C | A A | A A | C T | T T | C C | G T | C C | T T | T T | 00 |
| 32 | 00 | C C | C C | A C | A G | C T | C T | C C | T T | C C | T T | C T | 00 |
| 33 | 00 | A A | C C | A C | A G | C T | C T | C T | T T | C C | T T | T T | 00 |
| 34 | 00 | A C | C C | A C | A G | C T | C T | C C | T T | C T | C T | T T | 00 |
| 35 | 00 | A C | A C | A C | A A | T T | C T | T T | T T | C C | C T | C T | 00 |
| 36 | 00 | C C | C C | A A | A A | C T | C C | C T | T T | C T | C T | C T | 00 |
| 37 | 00 | C C | C C | 00 | 00 | T T | T T | 00 | G T | 00 | T T | T T | 00 |
| 38 | 00 | A C | C C | A A | A A | C C | C C | C C | T T | C C | T T | T T | 00 |
| 39 | 00 | A C | C C | 00 | 00 | C C | 00 | 00 | 00 | 00 | 00 | T T | 00 |
| 40 | 00 | A A | C C | A C | A G | T T | C T | C T | T T | C T | C C | T T | GG |
| 41 | 00 | C C | C C | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | T T | 00 |
| 42 | 00 | A A | C C | A C | A G | C T | C T | C T | T T | C C | C T | T T | 00 |
| 43 | 00 | A C | C C | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C T | 00 |
| 44 | 00 | A A | C C | A C | A G | C T | C T | C C | T T | C T | C T | T T | 00 |
| 45 | 00 | A A | C C | 00 | A G | T T | T T | 00 | G T | 00 | T T | T T | 00 |
| 46 | 00 | C C | C C | C C | A G | T T | T T | C T | T T | C C | T T | C T | 00 |
| 47 | 00 | A C | C C | 00 | A G | C T | C T | 00 | T T | 00 | C T | T T | 00 |
| 48 | 00 | C C | C C | C C | G G | T T | T T | C T | T T | C C | T T | T T | 00 |
| 49 | 00 | C C | C C | A A | A A | C T | C T | C C | T T | C T | C T | T T | 00 |
| 50 | 00 | C C | C C | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | T T | 00 |
| 51 | 00 | C C | C C | A C | A G | C C | C C | C T | T T | C T | C C | T T | 00 |
| 52 | 00 | A C | C C | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | T T | 00 |
| 53 | 00 | C C | C C | A C | A G | C T | C T | C C | T T | C C | T T | C T | 00 |
| 54 | 00 | C C | C C | A A | A A | C C | C C | 00 | G T | 00 | 00 | T T | 00 |
| 55 | 00 | C C | A C | A A | A A | C T | C T | C C | T T | C C | T T | T T | 00 |
| 56 | 00 | A C | C C | 00 | A G | C T | C T | 00 | T T | 00 | 00 | T T | 00 |
| 57 | 00 | C C | C C | A A | A A | C T | C C | T T | T T | C C | T T | T T | 00 |
| 58 | 00 | C C | C C | A A | A A | C C | C C | C T | T T | C T | C T | T T | 00 |
| 59 | 00 | A A | C C | A A | A A | C C | C C | C T | T T | C T | C T | T T | 00 |
| 60 | 00 | C C | C C | C C | A G | T T | T T | C T | T T | C C | C T | T T | 00 |
| 61 | 00 | A C | C C | A C | A G | C T | T T | C C | T T | C C | C T | T T | 00 |
| 62 | 00 | A C | C C | 00 | A G | C T | T T | 00 | G T | 00 | T T | T T | 00 |
| 63 | 00 | A C | A C | A A | A A | C T | C C | C T | T T | C C | C T | C T | 00 |

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|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64 | 00 | A A | A C | C C | G G | T T | T T | C C | T T | C C | T T | T T | 00 |
| 65 | 00 | C C | C C | A A | A A | C C | C C | C T | G T | C C | T T | C T | 00 |
| 66 | 00 | A A | C C | 00 | 00 | T T | C T | 00 | T T | 00 | C T | T T | 00 |
| 67 | 00 | C C | C C | A C | G G | T T | T T | C C | T T | C C | T T | T T | 00 |
| 68 | 00 | A A | C C | A A | A A | C T | C C | C T | T T | C C | T T | C T | 00 |
| 69 | 00 | C C | C C | A C | A G | C T | C T | T T | G T | C C | T T | T T | 00 |
| 70 | 00 | C C | C C | A A | A A | C C | C T | C T | T T | C C | T T | T T | 00 |
| 71 | 00 | A C | C C | C C | A G | T T | T T | C T | T T | C T | C T | T T | 00 |
| 72 | 00 | A A | C C | A A | A A | C C | C T | C T | T T | C C | T T | T T | 00 |
| 73 | 00 | A C | C C | C C | G G | T T | T T | C C | T T | C C | C T | C C | 00 |
| 74 | 00 | C C | C C | A C | A G | C T | T T | C C | T T | C C | T T | C C | 00 |
| 75 | 00 | A A | C C | A C | A G | C T | C T | C T | G T | C C | T T | T T | 00 |
| 76 | 00 | C C | A C | A A | A A | C T | C T | C C | G T | C C | T T | T T | 00 |
| 77 | 00 | C C | C C | C C | A G | T T | T T | C T | G T | C C | T T | C T | 00 |
| 78 | 00 | A C | C C | A C | A G | C T | C T | C T | T T | C C | C T | T T | 00 |
| 79 | 00 | A C | C C | C C | A G | T T | T T | C T | G T | C C | T T | T T | 00 |
| 80 | 00 | A C | C C | A C | G G | T T | T T | C C | G T | C C | T T | C T | 00 |
| 81 | 00 | A C | C C | A C | A G | C T | C T | C T | G T | C C | T T | T T | 00 |
| 82 | 00 | A C | C C | C C | G G | T T | T T | C C | G T | C C | T T | T T | 00 |
| 83 | 00 | C C | A C | A C | A G | C T | C T | C C | G G | C C | T T | T T | 00 |
| 84 | 00 | C C | C C | A C | A G | T T | C T | C T | T T | C C | C T | T T | 00 |
| 85 | 00 | A A | A C | A A | A A | C T | C T | C T | G T | C C | C T | C T | 00 |
| 86 | 00 | C C | C C | C C | A G | T T | T T | C C | T T | C C | T T | T T | 00 |
| 87 | 00 | A C | C C | A A | A A | C T | C C | C T | G T | C C | T T | T T | 00 |
| 88 | 00 | A C | C C | A C | A G | T T | C T | C T | T T | C C | T T | T T | 00 |
| 89 | 00 | 00 | 00 | A A | A A | C T | 00 | C C | G T | C C | T T | C T | A G |
| 90 | 00 | A A | C C | A A | A A | T T | C C | C T | T T | C C | T T | T T | A A |
| 91 | 00 | C C | C C | A A | A A | C C | C T | T T | G T | C C | T T | C T | A G |
| 92 | 00 | C C | C C | A C | A A | T T | C T | C T | T T | C C | T T | T T | A A |
| 93 | 00 | C C | C C | A C | A A | C T | C T | C T | G T | C C | T T | T T | G G |
| 94 | 00 | A C | C C | A C | A G | C T | C T | C T | G G | C C | T T | T T | A A |
| 95 | 00 | A C | A C | A C | A G | T T | C T | C T | T T | C T | C T | C T | G G |
| 96 | 00 | A C | C C | A C | A G | C T | C T | C C | G T | C C | T T | C T | A A |

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| 97 | 00 | C C | C C | A C | A A | C T | C T | T T | G T | C C | T T | C T | A G |
| 98 | 00 | A C | C C | A A | A A | T T | C T | C C | T T | C C | C T | T T | A A |
| 99 | 00 | C C | C C | C C | G G | T T | T T | C C | T T | C C | T T | T T | A A |
| 100 | 00 | A C | C C | 00 | 00 | T T | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 101 | 00 | A C | C C | C C | G G | T T | T T | C C | T T | C T | C T | T T | A G |
| 102 | 00 | A C | C C | C C | G G | T T | T T | C C | T T | C T | C C | T T | A G |
| 103 | 00 | A C | 00 | A C | A A | T T | C T | T T | G T | C C | T T | T T | A A |
| 104 | 00 | C C | C C | A C | G G | T T | T T | C C | T T | C C | T T | T T | A G |
| 105 | 00 | C C | C C | A C | A G | C T | C T | C T | G T | C T | C T | T T | A A |
| 106 | 00 | A C | C C | A C | A G | C T | C T | T T | T T | C T | C T | T T | A A |
| 107 | 00 | A C | C C | C C | A G | T T | T T | C C | G G | C C | C T | C T | A G |
| 108 | 00 | C C | C C | A C | A A | C T | C T | C T | T T | C C | T T | T T | A G |
| 109 | 00 | A C | C C | A A | A A | C T | C C | C C | G T | C C | T T | T T | A G |
| 110 | 00 | C C | C C | C C | G G | T T | T T | C C | G T | C T | C T | T T | A A |
| 111 | 00 | A C | C C | C C | A A | C T | C T | T T | G T | C C | C T | T T | G G |
| 112 | 00 | C C | C C | A A | A A | C C | C C | C T | T T | C C | C T | C T | A G |
| 113 | 00 | A C | C C | A A | A G | T T | T T | C C | G T | C C | T T | T T | A A |
| 114 | 00 | C C | C C | A C | A G | C T | C T | C T | G T | C C | T T | T T | A G |
| 115 | 00 | A C | C C | A C | A G | C T | C T | C T | G T | C C | T T | T T | A G |
| 116 | 00 | A A | C C | A A | A A | C C | C C | C T | G T | C C | T T | T T | G G |
| 117 | 00 | A A | C C | A A | A A | C T | C C | C C | T T | C C | T T | C T | A G |
| 118 | 00 | A C | C C | A A | A A | C C | C C | C T | T T | C C | C T | T T | A G |
| 119 | 00 | A C | C C | A C | A A | C T | C T | C T | T T | C C | T T | T T | A G |
| 120 | 00 | A C | C C | A C | A G | C T | C T | C T | T T | C T | C T | T T | A G |
| 121 | 00 | A C | C C | A C | A G | T T | C T | C T | T T | C C | T T | T T | A G |
| 122 | 00 | A A | C C | A C | A A | T T | C T | C T | T T | C T | C C | T T | A A |
| 123 | 00 | A C | C C | C C | A G | T T | T T | C C | G T | C C | T T | T T | G G |
| 124 | 00 | A C | C C | A C | A A | C T | C T | T T | G T | C C | C T | T T | A G |
| 125 | 00 | A C | C C | 00 | G G | T T | T T | 00 | T T | 00 | T T | T T | A A |
| 126 | 00 | A C | C C | A A | A A | C C | C C | T T | G T | C C | T T | T T | A G |
| 127 | 00 | A C | C C | A A | A A | C C | C C | C T | T T | C T | C T | C C | G G |
| 128 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | C C | T T | T T | A A |
| 129 | 00 | C C | A C | 00 | A G | T T | C T | 00 | G T | 00 | T T | T T | 00 |

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|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 130 | 00 | C C | C C | A C | A G | C T | C T | C T | G G | C C | T T | C T | A G |
| 131 | 00 | A C | C C | C C | A G | T T | T T | C C | T T | 00 | T T | C T | G G |
| 132 | 00 | A C | C C | C C | G G | T T | T T | C C | G T | C C | T T | T T | A G |
| 133 | 00 | 00 | 00 | A A | A G | 00 | C T | C T | G G | C C | T T | 00 | A G |
| 134 | 00 | A C | C C | A A | A A | C C | C C | T T | T T | C C | T T | T T | A A |
| 135 | 00 | A C | C C | A A | A A | C C | C T | 00 | T T | 00 | C T | C T | 00 |
| 136 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | C C | T T | C T | G G |
| 137 | 00 | A A | C C | C C | A A | T T | T T | T T | T T | C C | T T | T T | A G |
| 138 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | C T | C T | T T | G G |
| 139 | 00 | C C | C C | A A | A A | T T | C T | C C | G T | C C | C T | T T | A A |
| 140 | 00 | A C | C C | A C | G G | T T | T T | C T | T T | C C | T T | T T | A G |
| 141 | 00 | A C | C C | C C | A A | T T | T T | C T | T T | C T | C T | T T | A A |
| 142 | 00 | C C | C C | A C | G G | T T | T T | C C | G T | C C | T T | T T | A A |
| 143 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | C C | T T | T T | A A |
| 144 | 00 | C C | C C | A A | A A | C T | C C | T T | T T | C T | C T | T T | A G |
| 145 | 00 | A C | A C | A C | A G | T T | C T | C T | G T | C T | C T | T T | A A |
| 146 | 00 | C C | A C | A A | A A | C T | C C | C T | G T | C T | C T | T T | A A |
| 147 | 00 | 00 | 00 | A A | A A | 00 | C T | T T | T T | C C | C T | 00 | A G |
| 148 | 00 | A C | C C | C C | G G | T T | T T | C C | T T | C C | C T | T T | A A |
| 149 | 00 | A C | A C | A C | A G | T T | T T | C C | T T | C C | T T | T T | A A |
| 150 | 00 | A C | C C | A C | A A | C T | 00 | T T | T T | 00 | 00 | T T | A A |
| 151 | 00 | A C | C C | A C | A G | C T | C T | C C | G T | C T | C T | T T | A G |
| 152 | 00 | C C | A C | A A | A A | C T | C C | T T | T T | C T | C T | C C | G G |
| 153 | 00 | A C | C C | A C | A G | C T | C T | C C | T T | C T | C T | T T | G G |
| 154 | 00 | A C | C C | A C | A G | C T | C T | C C | T T | C C | T T | C T | A G |
| 155 | 00 | A C | C C | A C | A G | C T | C T | C T | G G | C C | T T | T T | A A |
| 156 | 00 | C C | C C | A A | A A | C T | C T | C T | T T | C T | C C | T T | A G |
| 157 | 00 | A C | C C | A C | A A | T T | T T | C T | T T | C C | T T | C T | G G |
| 158 | 00 | 00 | C C | A C | A G | C T | 00 | 00 | T T | 00 | T T | T T | A G |
| 159 | 00 | A C | A C | A A | A A | C C | C C | T T | G T | C C | C T | C T | A G |
| 160 | 00 | A C | C C | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C T | 00 |
| 161 | 00 | A C | C C | C C | A G | T T | T T | C C | T T | C C | T T | T T | A A |
| 162 | 00 | C C | C C | A C | A G | T T | C T | C T | T T | C C | T T | C T | A G |

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|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 163 | 00 | A C | C C | A C | A A | C T | C T | C T | T T | C T | C T | T T | A A |
| 164 | 00 | A C | C C | A A | A A | T T | C T | C T | T T | C C | T T | C T | A G |
| 165 | 00 | A C | C C | C C | A G | T T | C T | C T | T T | C C | T T | C T | G G |
| 166 | 00 | A C | A C | A A | A A | T T | C C | C T | G T | C C | T T | T T | A A |
| 167 | 00 | A A | C C | A A | A A | C C | C C | C T | G T | C C | T T | T T | A G |
| 168 | 00 | C C | C C | A A | A A | C C | C C | C T | T T | C C | T T | T T | A G |
| 169 | 00 | A C | C C | A A | A A | T T | C T | C C | G T | C C | T T | C T | A G |
| 170 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | C T | C C | C T | G G |
| 171 | 00 | C C | C C | A C | A A | C T | C T | C T | G G | C C | T T | C T | A G |
| 172 | 00 | C C | C C | A C | A G | T T | C C | T T | G T | C C | T T | C T | A G |
| 173 | 00 | C C | C C | A A | A A | C T | C C | T T | T T | C T | C T | T T | A G |
| 174 | 00 | C C | A C | A C | A G | C T | T T | C C | T T | C C | T T | T T | A A |
| 175 | 00 | C C | C C | C C | A A | T T | T T | T T | T T | C C | T T | T T | A A |
| 176 | 00 | A C | C C | A C | A A | C T | C T | T T | T T | C T | C C | C T | G G |
| 177 | 00 | A C | C C | A C | A A | C T | C T | C C | T T | 00 | C T | T T | 00 |
| 178 | 00 | C C | A C | A C | A A | C T | T T | C C | G T | 00 | T T | C T | 00 |
| 179 | 00 | A A | C C | A C | G G | T T | T T | C C | G T | 00 | T T | T T | 00 |
| 180 | 00 | C C | C C | A C | A A | T T | C T | C T | G T | 00 | T T | T T | 00 |
| 181 | 00 | A A | C C | A C | A G | C T | C T | C C | T T | 00 | C T | C T | 00 |
| 182 | 00 | C C | C C | A A | A A | C C | C C | C T | T T | 00 | T T | T T | 00 |
| 183 | 00 | A C | C C | A A | A A | C C | C C | C T | T T | 00 | T T | C T | 00 |
| 184 | 00 | A A | C C | A C | A G | C T | 00 | C T | T T | 00 | T T | T T | 00 |
| 185 | 00 | 00 | 00 | A C | A G | 00 | 00 | C C | G T | 00 | T T | 00 | 00 |
| 186 | 00 | C C | C C | A C | A A | C T | C T | T T | T T | 00 | T T | T T | 00 |
| 187 | 00 | A C | C C | A A | A A | C T | C C | T T | G T | 00 | T T | T T | 00 |
| 188 | 00 | A A | C C | A C | A G | T T | C T | C T | G T | 00 | T T | 00 | 00 |
| 189 | 00 | C C | C C | A A | A G | C T | C T | C C | T T | 00 | T T | T T | 00 |
| 190 | 00 | A A | C C | A A | A G | C T | C T | C T | T T | 00 | T T | T T | 00 |
| 191 | 00 | A C | A C | A A | A A | C T | C C | T T | G G | 00 | T T | T T | 00 |
| 192 | 00 | A C | A C | A C | A G | C T | C T | C C | T T | 00 | T T | T T | 00 |
| 193 | 00 | C C | C C | A C | A A | C T | C T | C C | T T | 00 | C T | T T | 00 |
| 194 | 00 | A C | C C | A A | A A | C C | C C | T T | T T | 00 | C T | T T | 00 |
| 195 | 00 | C C | C C | A A | A A | C T | C C | T T | T T | 00 | T T | T T | 00 |

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|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
| 196 | 00 | A C | A C | A A | A A | C T | C T | C C | G T | 00 | T T | T T | 00 |
| 197 | 00 | A C | C C | A C | A G | C T | C T | C T | G G | 00 | T T | C T | 00 |
| 198 | 00 | A C | C C | C C | A G | T T | C T | C T | T T | 00 | C T | T T | 00 |
| 199 | 00 | A C | C C | A A | A A | C T | C C | T T | G T | 00 | T T | T T | 00 |
| 200 | 00 | A C | C C | A C | A G | C T | C T | C C | G T | 00 | T T | T T | 00 |
| 201 | 00 | C C | C C | A C | A A | C T | C T | C T | T T | 00 | C T | C T | 00 |
| 202 | 00 | A C | C C | A C | A G | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 203 | 00 | A C | C C | C C | G G | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 204 | 00 | A A | C C | A C | A G | C T | C T | C T | T T | 00 | C T | T T | 00 |
| 205 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | 00 | T T | C C | 00 |
| 206 | 00 | C C | C C | A C | A G | T T | C T | C T | T T | 00 | C T | C T | 00 |
| 207 | 00 | A A | C C | C C | A G | T T | T T | C T | G T | 00 | C T | T T | 00 |
| 208 | 00 | A C | C C | A C | A G | C T | T T | C C | T T | 00 | T T | T T | 00 |
| 209 | 00 | A C | C C | A C | A G | C T | T T | C C | T T | 00 | T T | T T | 00 |
| 210 | 00 | C C | C C | A C | A A | C T | C T | C T | G T | 00 | T T | T T | 00 |
| 211 | 00 | A A | C C | A C | A G | C T | C T | C C | G T | 00 | T T | T T | 00 |
| 212 | 00 | C C | C C | A C | A G | T T | C T | C C | G T | 00 | T T | T T | 00 |
| 213 | 00 | A C | C C | A C | A G | C T | C T | T T | T T | 00 | C T | T T | 00 |
| 214 | 00 | C C | C C | C C | A G | T T | T T | C C | T T | 00 | C T | T T | 00 |
| 215 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | 00 | C T | T T | 00 |
| 216 | 00 | A A | C C | A C | A A | C T | C T | T T | T T | 00 | C T | T T | 00 |
| 217 | 00 | C C | C C | A A | A G | C T | C T | C T | T T | 00 | C T | T T | 00 |
| 218 | 00 | C C | C C | A A | A A | C C | C C | C T | T T | 00 | T T | T T | 00 |
| 219 | 00 | A C | A C | A C | A G | C T | C T | C C | T T | 00 | T T | T T | 00 |
| 220 | 00 | A A | C C | C C | A G | T T | T T | C T | T T | 00 | C T | C T | 00 |
| 221 | 00 | C C | C C | A A | A A | C C | C C | T T | T T | 00 | C T | C T | 00 |
| 222 | 00 | C C | C C | A C | A G | C T | C T | C T | G T | 00 | T T | T T | 00 |
| 223 | 00 | A C | C C | A C | A G | C T | C T | C C | T T | 00 | C T | T T | 00 |
| 224 | 00 | C C | C C | C C | G G | T T | C T | T T | T T | 00 | T T | T T | 00 |
| 225 | 00 | C C | C C | A C | A G | C T | C T | T T | T T | 00 | C T | T T | 00 |
| 226 | 00 | C C | C C | A A | A A | C C | C C | C C | G T | 00 | C T | T T | 00 |
| 227 | 00 | C C | C C | A C | A G | T T | C T | C T | G T | 00 | T T | T T | 00 |
| 228 | 00 | A A | A A | A A | A A | T T | T T | C C | T T | 00 | C T | C T | 00 |

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|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
| 229 | 00 | A A | C C | A A | A G | T T | T T | C C | T T | 00 | C T | C T | 00 |
| 230 | 00 | A C | C C | A A | A A | C T | C T | C T | T T | 00 | T T | C T | 00 |
| 231 | 00 | C C | C C | A C | A A | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 232 | 00 | A C | C C | A A | A A | C C | C C | C C | G T | 00 | T T | T T | 00 |
| 233 | 00 | C C | C C | A C | A G | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 234 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | 00 | T T | C T | 00 |
| 235 | 00 | C C | A C | A C | A G | C T | C T | C C | T T | 00 | T T | T T | 00 |
| 236 | 00 | A C | A C | A A | A A | C T | C C | C T | T T | 00 | T T | T T | 00 |
| 237 | 00 | C C | A C | A C | A A | T T | T T | C T | T T | 00 | C T | T T | 00 |
| 238 | 00 | A C | C C | C C | G G | T T | T T | C C | T T | 00 | T T | C T | 00 |
| 239 | 00 | C C | A C | A A | A A | C C | C C | C C | T T | 00 | T T | C C | 00 |
| 240 | 00 | A C | C C | A C | A A | C T | C T | C T | G T | 00 | T T | C T | 00 |
| 241 | 00 | A C | C C | A C | A G | T T | C T | C C | T T | 00 | T T | T T | 00 |
| 242 | 00 | A C | C C | A A | A G | C T | C T | C T | T T | 00 | C T | T T | 00 |
| 243 | 00 | A C | A C | A C | A A | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 244 | 00 | C C | C C | A C | A G | C T | C T | C C | T T | 00 | T T | T T | 00 |
| 245 | 00 | A C | C C | A A | A A | T T | C C | T T | G T | 00 | T T | T T | 00 |
| 246 | 00 | A C | C C | A C | A A | C T | C C | C C | G T | 00 | T T | T T | 00 |
| 247 | 00 | A C | C C | A C | A G | T T | C T | C T | T T | 00 | T T | T T | 00 |
| 248 | 00 | C C | A C | A C | A G | T T | C T | T T | T T | 00 | C T | T T | 00 |
| 249 | 00 | A A | C C | A C | A G | T T | T T | C C | G T | 00 | T T | C T | 00 |
| 250 | 00 | A C | C C | A C | A G | C T | C T | C T | T T | 00 | T T | T T | 00 |
| 251 | 00 | C C | C C | A C | A G | C T | C T | C T | T T | 00 | T T | T T | 00 |
| 252 | 00 | A C | A C | A A | A A | C T | C C | C T | T T | 00 | T T | T T | 00 |
| 253 | 00 | A C | C C | A A | A A | C C | C C | T T | T T | 00 | T T | T T | 00 |
| 254 | 00 | C C | C C | A A | A A | C C | C C | C T | G T | 00 | T T | T T | 00 |
| 255 | 00 | C C | C C | A A | A A | C T | C T | C T | G T | 00 | T T | T T | 00 |
| 256 | 00 | C C | C C | A C | A G | C T | C T | C C | G G | 00 | T T | T T | 00 |
| 257 | 00 | A A | A C | A A | A A | C T | C C | C T | T T | 00 | C C | T T | 00 |
| 258 | 00 | A C | A C | A C | A A | T T | T T | C T | G T | 00 | C C | T T | 00 |
| 259 | 00 | A C | C C | A A | A A | C C | C C | T T | G T | 00 | T T | T T | 00 |
| 260 | 00 | A C | C C | A C | A A | C T | C T | C T | T T | 00 | C T | T T | 00 |
| 261 | 00 | C C | C C | A C | A A | C T | C C | C T | G G | 00 | T T | T T | 00 |

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|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 262 | 00 | CC | CC | AC | AG | CT | CT | CC | TT | 00 | CC | CT | 00 |
| 263 | 00 | CC | CC | AA | AA | CC | CC | CC | TT | 00 | TT | TT | 00 |
| 264 | 00 | AC | CC | AA | AA | CC | CC | TT | GT | 00 | TT | TT | 00 |
| 265 | 00 | AC | CC | AA | AA | TT | CT | CC | TT | CC | CT | TT | AA |
| 266 | 00 | AA | CC | AA | AA | TT | CC | TT | TT | CT | CT | CT | GG |
| 267 | 00 | CC | CC | AC | AA | CT | CC | CC | TT | TT | CC | TT | GG |
| 268 | 00 | AC | CC | CC | GG | TT | TT | CT | TT | CC | TT | CT | AG |
| 269 | 00 | AC | CC | AA | AA | CC | CC | CT | TT | CC | CC | TT | AA |
| 270 | 00 | AC | CC | CC | AG | TT | TT | CT | TT | CT | CT | TT | AA |
| 271 | 00 | AC | CC | CC | AG | TT | TT | CC | TT | CC | TT | TT | AA |
| 272 | 00 | CC | CC | AC | AG | CT | CT | CC | TT | CT | CT | CT | AG |
| 273 | 00 | CC | CC | CC | GG | TT | CT | CT | TT | CT | CC | CT | AA |
| 274 | 00 | AC | CC | AA | AA | CT | CC | CT | GT | CC | TT | TT | AA |
| 275 | 00 | AC | AC | AA | AA | TT | CC | TT | TT | CC | CT | CT | AG |
| 276 | 00 | CC | CC | AA | AA | CT | CC | CT | TT | CC | TT | CT | AG |
| 277 | 00 | AC | CC | CC | GG | TT | TT | CC | GT | CC | TT | CT | GG |
| 278 | 00 | AA | AC | AA | AA | CT | CT | CC | TT | CC | TT | TT | AA |
| 279 | 00 | AA | CC | AA | AA | CC | CC | CT | TT | CC | TT | TT | AG |
| 280 | 00 | AC | CC | AA | AA | CC | CC | TT | TT | CC | CT | TT | AA |
| 281 | 00 | CC | CC | AC | AA | CT | CT | CT | TT | CC | TT | TT | AA |
| 282 | 00 | AC | AC | AC | AG | CT | CT | CC | TT | CC | CT | TT | GG |
| 283 | 00 | CC | AC | AA | AA | TT | TT | CC | GT | CC | CT | TT | AA |
| 284 | 00 | CC | CC | AC | AG | CT | CT | CC | TT | CC | TT | CT | GG |

| GENE | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 | HIP1 |
|------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| SNP/Sample | rs794356 | rs237238 | rs237236 | rs807874 | rs2705788 | rs2240133 | rs2240134 | rs6957776 | rs12533075 | rs4385416 | rs7457874 | rs6945301 | rs4620231 |
| 1 | C T | A A | A G | C T | A T | C T | C C | C G | A G | G G | A A | A A | A A |
| 2 | T T | A A | G G | C T | T T | C C | C C | C C | A G | A G | A G | G G | A A |
| 3 | C C | A A | G G | C T | A T | C T | C C | C G | A A | A A | G G | A G | A C |
| 4 | T T | A A | A G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 5 | C T | A G | A G | C T | A T | C C | T T | G G | A G | A G | A G | A A | A A |
| 6 | C C | A A | G G | C C | T T | T T | C C | C C | A A | A A | G G | A A | A A |
| 7 | C T | A A | A G | T T | A T | 00 | C T | C G | A A | A A | G G | G G | A A |
| 8 | 00 | A A | 00 | C T | A T | 00 | C C | C C | A A | A A | G G | A A | A C |
| 9 | C C | A A | A G | T T | A T | C T | C T | C G | A G | A G | A G | A G | A C |
| 10 | C C | A A | G G | 00 | T T | C T | C T | C C | A A | A A | G G | A A | A C |
| 11 | C C | A G | A G | T T | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 12 | C C | A G | A G | T T | A T | C C | C T | C G | A G | A G | A G | G G | A A |
| 13 | C T | A A | G G | C T | A T | C T | C C | C G | A A | A G | G G | A G | C C |
| 14 | T T | A A | A G | T T | A A | C C | T T | G G | G G | G G | A A | A A | A A |
| 15 | C T | A A | A G | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 16 | T T | A A | G G | C T | A T | T T | C C | C C | A A | A G | A G | A A | A A |
| 17 | C C | A A | G G | T T | T T | C C | C C | G G | A A | A A | G G | G G | A A |
| 18 | C T | A A | G G | T T | A A | T T | C C | C C | A A | A G | A G | A G | A A |
| 19 | C T | A A | A G | T T | A T | 00 | C C | G G | A A | A A | G G | A G | A A |
| 20 | C C | A A | G G | T T | A A | C C | C C | C C | A A | A A | G G | A G | A C |
| 21 | C T | A A | A G | T T | A A | T T | C C | C G | A G | A G | A G | A G | A A |
| 22 | C C | A G | A A | T T | A T | C T | C T | C C | A A | A A | G G | A A | A C |
| 23 | C C | A A | A G | T T | A A | C T | C T | C C | A A | A A | G G | A G | A A |
| 24 | C T | A A | G G | T T | A T | C C | C T | C G | A G | A G | A G | A G | C C |
| 25 | C C | A A | A G | T T | T T | C C | C C | G G | A A | A G | G G | G G | C C |
| 26 | T T | A A | G G | C T | A A | C C | T T | G G | G G | G G | A A | A A | A A |
| 27 | C C | A A | A G | T T | A T | C C | C T | C G | A G | A G | A G | A G | A C |
| 28 | C T | A A | G G | C T | A A | C C | C C | G G | A G | A G | G G | A G | A C |
| 29 | T T | A A | A A | T T | T T | C C | C C | C C | A A | A A | G G | G G | A A |
| 30 | T T | A A | A G | T T | A T | C T | C T | C G | A G | A A | G G | A G | A A |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 31 | C T | A A | A G | T T | A A | C C | C C | C C | A A | A A | G G | A A | A A |
| 32 | C C | A G | A A | T T | A A | 00 | C C | C G | A A | A A | G G | A G | A A |
| 33 | C T | A A | G G | C T | A T | C T | C T | G G | A G | A A | G G | G G | A A |
| 34 | C T | A A | G G | T T | A A | C C | C T | G G | A G | G G | A G | A G | A A |
| 35 | C C | A A | G G | 00 | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 36 | C C | A A | G G | C C | T T | C T | C T | C G | A G | A A | G G | A G | A C |
| 37 | 00 | A A | G G | 00 | T T | C C | T T | G G | 00 | A A | G G | G G | A A |
| 38 | C T | A A | A A | T T | A A | C T | C T | C G | A G | A G | A G | A A | A A |
| 39 | 00 | A G | 00 | 00 | 00 | 00 | C C | C G | 00 | A G | G G | G G | 00 |
| 40 | C C | A A | G G | C C | T T | C T | C T | C G | A G | A A | G G | A G | A A |
| 41 | 00 | A A | 00 | 00 | 00 | 00 | C C | C G | 00 | A G | G G | A G | 00 |
| 42 | C T | A A | G G | T T | A A | C T | C C | C C | A A | A A | G G | A G | A A |
| 43 | 00 | A A | 00 | 00 | 00 | 00 | C T | C G | 00 | A G | A G | A G | 00 |
| 44 | C C | A A | G G | C C | T T | 00 | T T | G G | G G | A G | A G | G G | A A |
| 45 | 00 | A G | A G | 00 | A T | C C | T T | G G | G G | G G | 00 | A G | A A |
| 46 | C T | A A | A G | T T | A A | C T | C T | C C | A A | A A | G G | A A | A A |
| 47 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 48 | C C | A A | G G | T T | T T | C T | C C | C C | A A | A A | G G | A G | A A |
| 49 | C T | A A | G G | T T | A T | C C | C T | C G | A G | A G | A G | A G | A A |
| 50 | 00 | A A | 00 | 00 | 00 | 00 | C T | C G | 00 | A A | G G | G G | 00 |
| 51 | C T | A A | G G | C T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 52 | 00 | A A | 00 | 00 | 00 | 00 | C C | C G | 00 | A A | G G | A G | 00 |
| 53 | C T | A G | A A | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 54 | 00 | A A | A G | 00 | A T | C T | C T | C G | A A | A A | G G | A G | 00 |
| 55 | C T | A A | G G | T T | A A | C C | C C | C C | A A | A A | G G | A A | A C |
| 56 | 00 | A A | G G | 00 | A T | 00 | C T | C G | 00 | A G | A G | A G | 00 |
| 57 | C T | A G | A G | T T | A T | C T | C C | C C | A A | A A | G G | A A | A C |
| 58 | T T | A A | G G | T T | A A | C T | C T | C G | A G | A G | A G | A G | A A |
| 59 | C C | A A | A G | C T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 60 | C T | A A | G G | C T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 61 | T T | A A | A G | T T | A T | C C | C T | C G | A G | A G | A G | A A | A C |
| 62 | 00 | A A | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A G | A C |
| 63 | C C | A A | G G | T T | T T | C C | C T | G G | A G | A G | A G | G G | A C |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64 | C T | A A | A G | T T | A A | C T | 00 | 00 | A A | A A | G G | A A | A C |
| 65 | C T | A A | G G | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 66 | 00 | A A | G G | 00 | T T | C T | 00 | C G | A A | A G | G G | G G | A C |
| 67 | C T | A A | A G | T T | A A | C C | C C | C G | A G | A G | A G | A A | A A |
| 68 | C C | A A | A G | C T | A T | 00 | T T | G G | G G | G G | A A | G G | A A |
| 69 | C C | A A | A G | T T | A T | C T | C T | C G | 00 | A G | A G | A G | A A |
| 70 | C T | A A | G G | C T | T T | C C | 00 | G G | A G | G G | A G | G G | A A |
| 71 | T T | A A | G G | T T | A T | C C | C C | C C | A A | A A | G G | G G | A A |
| 72 | C C | A A | G G | T T | A T | C T | C C | C C | A A | A G | A G | G G | A A |
| 73 | C C | A A | G G | C C | A T | C C | C T | G G | A G | A G | A G | G G | A A |
| 74 | C C | A A | G G | C C | T T | C T | C T | C G | A G | A G | A G | A G | A C |
| 75 | C T | A A | A A | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 76 | C T | A A | G G | T T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 77 | C C | A A | G G | T T | T T | C C | C C | C G | A A | A A | G G | G G | A A |
| 78 | T T | A A | G G | T T | A A | C T | C C | C G | A A | A G | G G | A G | A A |
| 79 | C T | A A | G G | T T | A T | C C | C C | C C | A A | A A | G G | A G | A A |
| 80 | C T | A G | A A | T T | A T | 00 | C C | C G | A G | A A | G G | A G | A C |
| 81 | C T | G G | A A | T T | T T | C C | C T | C G | A G | A G | A G | G G | A A |
| 82 | T T | A A | A G | T T | A A | C C | T T | G G | G G | G G | A G | A A | A A |
| 83 | C C | A A | G G | C T | T T | C T | C C | C C | A A | A A | G G | A G | A A |
| 84 | C T | A A | G G | C T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 85 | C C | A A | G G | C T | T T | C C | C C | C G | A A | A A | G G | G G | A C |
| 86 | C T | A A | A G | T T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 87 | C T | A A | A A | T T | A T | 00 | T T | G G | G G | G G | A A | A A | A A |
| 88 | C T | A A | G G | C T | A A | C T | C C | C G | A G | A A | G G | A A | A C |
| 89 | C C | 00 | A A | 00 | T T | C C | 00 | 00 | A G | 00 | G G | 00 | A C |
| 90 | T T | A A | A G | C T | A T | C C | C T | G G | A G | A G | A G | G G | A A |
| 91 | C T | A A | G G | T T | A T | C T | C C | C C | A A | A A | G G | A A | A A |
| 92 | T T | A A | A G | T T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 93 | C C | A A | A G | T T | T T | C C | C C | C G | A A | A A | G G | G G | A A |
| 94 | C T | A A | G G | C C | T T | C C | C T | G G | A G | A G | G G | G G | A A |
| 95 | C C | A A | A G | T T | A A | C T | C T | G G | A G | A G | A G | A G | A A |
| 96 | C T | A A | A A | T T | A T | C C | T T | G G | G G | G G | A A | 00 | A A |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 97 | C T | A G | A A | T T | A A | C C | C T | C G | A G | A G | A G | A A | A A |
| 98 | T T | A A | G G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 99 | C T | A A | G G | C T | A T | C T | C T | C G | A G | A G | A G | A A | A C |
| 100 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | C T | G G | 0 0 | A G | A G | A G | 0 0 |
| 101 | C T | A A | A G | C T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 102 | C T | A A | G G | C T | A A | C C | C C | C G | A A | A G | G G | G G | A A |
| 103 | C T | A A | A G | T T | A A | C T | C T | G G | G G | G G | A A | A G | A A |
| 104 | C T | A A | G G | T T | T T | C C | C T | C G | A G | A G | A G | A G | A C |
| 105 | C T | A G | A A | T T | A A | C C | C T | G G | A G | A G | A G | A G | A A |
| 106 | C T | A A | A G | T T | A T | C C | C T | C C | A A | A A | G G | G G | A A |
| 107 | C T | A A | A G | T T | A A | T T | C C | C G | A A | A A | G G | A A | A A |
| 108 | C T | A G | A A | T T | T T | C C | C C | C C | A A | A A | G G | A G | A A |
| 109 | C T | A A | G G | C T | A A | C C | T T | C G | A G | A G | A G | A A | A A |
| 110 | T T | A A | G G | T T | A T | C C | C T | C G | A G | A A | G G | A G | A C |
| 111 | C C | A A | G G | C T | A T | C C | C T | G G | G G | A G | A G | A G | C C |
| 112 | C T | A A | A G | C T | T T | C T | C C | C C | A A | A A | G G | A G | A C |
| 113 | C T | A A | A G | T T | A T | C T | C T | C G | A G | G G | A G | G G | A C |
| 114 | C C | A A | A A | T T | A T | C C | C T | C G | A A | A A | G G | A G | A A |
| 115 | C T | A A | G G | C T | A A | C T | C C | C C | A A | A A | G G | A G | A A |
| 116 | C C | A A | A G | T T | A A | C C | T T | C G | A G | A G | A G | G G | A A |
| 117 | C C | A A | G G | C T | A T | C T | C C | C G | A A | A A | G G | G G | A C |
| 118 | C T | A A | A G | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 119 | C T | A A | G G | C T | T T | C T | C T | C G | A G | A G | A G | A G | A C |
| 120 | C C | A A | G G | C T | A A | C T | C T | C G | A G | A A | G G | A A | A A |
| 121 | C C | A A | A A | T T | T T | C C | C C | G G | A A | A G | G G | G G | A C |
| 122 | C T | A A | A G | T T | T T | C T | C T | C G | A G | A G | A G | A A | A C |
| 123 | C C | A A | A A | T T | A T | C C | T T | G G | G G | G G | A A | A A | A A |
| 124 | C C | A A | G G | T T | A A | C T | C T | C G | G G | G G | A A | A G | A A |
| 125 | 0 0 | A A | A A | 0 0 | A A | C T | C C | C G | 0 0 | A A | G G | A A | A C |
| 126 | C C | A A | G G | C T | A T | C C | C C | G G | A G | A A | G G | A G | A C |
| 127 | C C | A A | G G | C T | A T | C C | C T | G G | A G | G G | A G | A G | A C |
| 128 | T T | A A | G G | T T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 129 | 0 0 | A A | A G | 0 0 | A T | C T | C T | 0 0 | 0 0 | A A | G G | 0 0 | A C |

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| 130 | C T | A G | A G | T T | A A | C T | C T | C G | A G | A G | A G | A A | A A |
| 131 | 0 0 | A G | A G | 0 0 | A A | C T | C T | C G | 0 0 | A G | A G | A A | A C |
| 132 | C C | A A | G G | C C | T T | C C | C T | G G | A G | A G | A G | G G | A A |
| 133 | C C | 0 0 | A G | T T | A T | C C | T T | G G | G G | G G | 0 0 | 0 0 | A A |
| 134 | T T | A A | A G | T T | T T | C C | C C | C G | A A | A A | G G | G G | A A |
| 135 | 0 0 | A A | G G | 0 0 | T T | C T | C T | C G | 0 0 | A G | A G | A G | A C |
| 136 | C C | A G | A A | T T | A A | C C | T T | G G | G G | G G | A A | A A | A C |
| 137 | C T | A A | G G | C T | A A | C T | C C | C G | A A | A G | G G | A G | A C |
| 138 | C C | A A | G G | C T | A T | C T | C C | C C | A A | A A | G G | A A | A C |
| 139 | C T | A A | G G | T T | T T | C T | C C | C G | A A | A G | G G | A G | A C |
| 140 | C T | A A | G G | C T | A T | C C | T T | C G | A G | A G | A G | G G | A A |
| 141 | T T | A A | A G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 142 | C T | A A | A G | C T | A T | C T | C T | C G | G G | G G | A A | G G | A A |
| 143 | T T | A A | G G | C C | A T | C C | C T | C G | A G | A G | A G | G G | A A |
| 144 | C C | A A | A G | C T | A A | C T | C T | C C | A A | A A | G G | A G | A C |
| 145 | C T | A A | A G | C T | A T | C C | C C | C G | A G | A A | G G | A G | A C |
| 146 | T T | A G | A G | T T | A T | C C | C T | C G | A G | A G | A G | A G | A A |
| 147 | C T | 0 0 | A G | T T | A A | T T | C C | C C | A A | A A | 0 0 | A A | A A |
| 148 | T T | A A | A G | T T | A A | C T | C T | C G | A G | A G | A G | A A | A C |
| 149 | T T | A A | A G | C T | A T | C C | C T | G G | A G | A G | A G | A G | A C |
| 150 | 0 0 | A A | G G | 0 0 | A T | C T | C C | G G | 0 0 | A G | G G | G G | 0 0 |
| 151 | C T | A A | G G | C T | T T | C C | C T | G G | A G | G G | A G | G G | A C |
| 152 | C C | A A | G G | T T | T T | C C | C T | C G | A G | A G | A G | G G | A A |
| 153 | C C | A A | A A | T T | A T | C T | C C | C G | A A | A G | G G | A G | A A |
| 154 | C T | A A | G G | C T | A T | C C | C T | 0 0 | A G | 0 0 | G G | 0 0 | A A |
| 155 | C T | A A | A G | C T | A T | C C | T T | G G | G G | G G | A G | A G | A A |
| 156 | C T | A A | G G | T T | T T | C C | C T | C G | A G | A G | A G | G G | A A |
| 157 | C C | A G | A A | T T | A T | C T | C C | C G | A G | A G | A G | A G | A C |
| 158 | 0 0 | A A | G G | 0 0 | A T | C C | T T | G G | 0 0 | A G | A G | 0 0 | A A |
| 159 | C T | A A | G G | T T | T T | C C | C T | G G | A G | A A | G G | G G | A A |
| 160 | 0 0 | A A | 0 0 | 0 0 | 0 0 | 0 0 | C C | 0 0 | 0 0 | A A | G G | 0 0 | 0 0 |
| 161 | T T | A A | A G | T T | T T | C C | C C | C G | A A | A A | G G | G G | A A |
| 162 | C C | A A | A G | T T | T T | C C | C T | C G | A G | A G | A G | G G | A A |

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| 163 | T T | A A | G G | C T | T T | C C | C C | C G | A A | A G | G G | G G | C C |
| 164 | C C | A A | G G | C C | A T | C C | C T | G G | G G | A G | A G | A G | A C |
| 165 | C C | A A | A G | C T | A T | C C | C C | G G | A G | A A | G G | A A | A C |
| 166 | C T | A A | G G | C C | A T | C T | C C | C G | A A | A G | G G | A G | A A |
| 167 | C T | A A | A G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 168 | C C | A A | A G | T T | T T | C C | T T | G G | G G | G G | A A | G G | A A |
| 169 | C C | A G | A G | T T | T T | C C | C C | C G | A A | A G | G G | G G | A C |
| 170 | C C | A A | G G | C C | T T | C C | C T | G G | A G | G G | A G | G G | A C |
| 171 | C T | A A | G G | T T | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 172 | C T | A A | G G | C T | A T | T T | 00 | 00 | A A | 00 | G G | 00 | A C |
| 173 | C T | A A | G G | T T | A T | C T | C C | C G | A A | A A | G G | A G | A C |
| 174 | C T | A A | A A | T T | T T | C C | T T | G G | G G | G G | A A | G G | A A |
| 175 | C T | A A | G G | C T | A T | C C | C T | G G | G G | A G | A G | A G | A A |
| 176 | C C | A A | A G | T T | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 177 | 00 | A A | G G | 00 | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 178 | 00 | A A | A G | 00 | A A | T T | C C | G G | A A | A G | G G | A G | A C |
| 179 | 00 | A A | A G | 00 | A T | C C | T T | G G | G G | G G | A A | 00 | A A |
| 180 | 00 | A G | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 181 | 00 | A A | G G | 00 | T T | C C | C T | C G | A G | A G | A G | 00 | A A |
| 182 | 00 | A A | G G | 00 | T T | C T | C T | C G | A G | A A | G G | A G | A C |
| 183 | 00 | A A | A G | 00 | A T | C C | C T | G G | A G | A G | A G | G G | A A |
| 184 | 00 | A A | A A | 00 | T T | C C | C T | G G | G G | A G | A G | A G | A C |
| 185 | 00 | 00 | A A | 00 | T T | C C | T T | G G | G G | G G | 00 | G G | A A |
| 186 | 00 | G G | A A | 00 | A T | C C | C T | C G | A G | A G | A G | A G | A C |
| 187 | 00 | A A | G G | 00 | T T | C C | C T | G G | A G | G G | A G | G G | A C |
| 188 | 00 | A A | G G | 00 | A A | C T | C T | C G | A G | A G | A G | A A | A C |
| 189 | 00 | A A | A G | 00 | A T | C T | C C | C G | A G | A G | A G | 00 | A C |
| 190 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 191 | 00 | A A | A G | 00 | A A | C T | C T | C G | G G | G G | A A | A A | A C |
| 192 | 00 | A G | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A A | A C |
| 193 | 00 | A A | G G | 00 | A A | C T | C T | C G | A G | A G | A G | A G | A C |
| 194 | 00 | A A | G G | 00 | A T | C C | T T | C G | A G | A G | A G | G G | A A |
| 195 | 00 | A A | A G | 00 | T T | C C | C C | C G | A A | A G | G G | G G | A A |

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| 196 | 00 | A A | A G | 00 | A T | C C | C C | C C | A A | A A | G G | G G | A A |
| 197 | 00 | A A | A G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A C |
| 198 | 00 | A A | A G | 00 | A A | T T | 00 | 00 | A A | A A | G G | A A | A A |
| 199 | 00 | A A | A G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 200 | 00 | A A | A G | 00 | A T | C C | C C | C G | A A | A A | G G | A G | A C |
| 201 | 00 | A A | A G | 00 | A T | C C | C T | C G | A G | A G | A G | A G | A A |
| 202 | 00 | A A | G G | 00 | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 203 | 00 | A A | G G | 00 | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 204 | 00 | A A | A G | 00 | A T | C C | T T | G G | G G | A G | A G | A G | A A |
| 205 | 00 | A A | G G | 00 | A T | C C | T T | G G | G G | A G | A G | A G | A C |
| 206 | 00 | A A | A A | 00 | A A | C T | C C | G G | G G | A G | A G | A A | A C |
| 207 | 00 | A A | G G | 00 | A T | C C | C T | G G | A G | A G | A G | A G | A A |
| 208 | 00 | A G | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A G | A C |
| 209 | 00 | A G | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A G | A C |
| 210 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 211 | 00 | A A | G G | 00 | A T | C T | 00 | C G | A A | A G | G G | A G | A A |
| 212 | 00 | A A | G G | 00 | A T | C T | 00 | C G | A A | A G | G G | A G | A C |
| 213 | 00 | A A | A G | 00 | T T | C C | T T | G G | G G | G G | A A | G G | A A |
| 214 | 00 | A A | A G | 00 | A T | C C | T T | C G | A G | A G | A G | G G | A A |
| 215 | 00 | A A | G G | 00 | A A | C C | C T | C G | A A | A G | A G | A A | A A |
| 216 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 217 | 00 | A A | G G | 00 | T T | C T | C T | G G | G G | G G | A A | A G | A A |
| 218 | 00 | A A | A G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 219 | 00 | A A | A G | 00 | A T | C T | C T | C G | A G | A G | A G | A A | A A |
| 220 | 00 | A G | A G | 00 | A T | C C | C T | C G | A G | A G | A G | A G | A A |
| 221 | 00 | A A | G G | 00 | T T | C C | T T | G G | A G | A G | A G | A G | A A |
| 222 | 00 | A A | G G | 00 | A T | T T | C C | C C | A A | A A | G G | A A | A C |
| 223 | 00 | A G | A G | 00 | T T | C C | C T | C G | A G | A G | A G | G G | C C |
| 224 | 00 | A A | A G | 00 | A T | T T | C T | C G | A G | A G | A G | 00 | A A |
| 225 | 00 | A A | G G | 00 | A A | C T | C T | C G | A G | A G | A G | A A | A A |
| 226 | 00 | A A | G G | 00 | T T | C C | C C | C G | A A | A G | G G | A G | A C |
| 227 | 00 | A A | A G | 00 | A A | C T | C T | C C | A A | A A | G G | A A | A A |
| 228 | 00 | A A | G G | 00 | A T | C T | C C | G G | A A | A A | G G | G G | A A |

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| 229 | 00 | A A | G G | 00 | A A | C T | C C | C C | A A | A A | G G | A A | A A |
| 230 | 00 | A A | G G | 00 | A A | T T | C C | C C | A G | A A | G G | A G | A A |
| 231 | 00 | A A | G G | 00 | T T | C C | T T | G G | G G | G G | A A | G G | A A |
| 232 | 00 | A A | A G | 00 | T T | C C | C T | C G | A G | A G | A G | G G | A A |
| 233 | 00 | A A | G G | 00 | A A | C T | C T | C G | A A | A A | G G | A G | A A |
| 234 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | C C |
| 235 | 00 | A A | G G | 00 | A T | C T | C C | C C | A A | A A | G G | A G | A C |
| 236 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 237 | 00 | A A | G G | 00 | A A | C T | 00 | C G | A G | A G | A G | A A | A A |
| 238 | 00 | A A | G G | 00 | A T | C C | T T | G G | A G | A A | G G | G G | A C |
| 239 | 00 | G G | A A | 00 | A A | C C | T T | G G | G G | G G | A A | A A | A A |
| 240 | 00 | A A | A G | 00 | A A | C C | C T | C G | A G | A G | A G | A G | A A |
| 241 | 00 | A A | G G | 00 | A A | T T | C C | C C | A A | A A | G G | A A | A A |
| 242 | 00 | A A | A G | 00 | A T | C T | C T | C G | A G | A G | A G | A G | A C |
| 243 | 00 | A A | G G | 00 | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 244 | 00 | A A | A G | 00 | A A | C C | C T | C C | A A | A G | G G | G G | A A |
| 245 | 00 | A A | G G | 00 | A T | C C | C T | C G | A G | A G | A G | G G | A A |
| 246 | 00 | A A | G G | 00 | A T | C C | C C | C C | A A | A A | G G | A G | A A |
| 247 | 00 | A G | A A | 00 | T T | C C | C T | G G | A G | A G | A G | A A | A A |
| 248 | 00 | A G | A G | 00 | A T | C T | C C | C C | A A | A A | G G | A A | A C |
| 249 | 00 | A A | A G | 00 | A A | C T | C T | C G | A G | A G | A G | A G | A C |
| 250 | 00 | A A | A G | 00 | A A | C C | T T | G G | G G | G G | A A | G G | A A |
| 251 | 00 | A A | A G | 00 | A A | C T | C T | C G | A G | A G | A G | A A | A C |
| 252 | 00 | A A | A G | 00 | A T | T T | C C | C C | A A | A G | A G | A G | A C |
| 253 | 00 | A G | A A | 00 | A T | C C | C C | G G | A A | A A | G G | G G | A A |
| 254 | 00 | A A | A G | 00 | A T | C T | C C | C G | A G | A A | G G | A A | C C |
| 255 | 00 | A A | A G | 00 | A T | C C | T T | G G | G G | G G | A A | G G | A A |
| 256 | 00 | A A | G G | 00 | A T | C C | C T | G G | G G | A G | A G | A G | A C |
| 257 | 00 | A G | A G | 00 | A T | C T | C T | C G | A G | A G | A G | A G | A A |
| 258 | 00 | A A | G G | 00 | A A | C T | C C | C C | A A | A A | G G | A A | A C |
| 259 | 00 | A A | G G | 00 | A T | C T | C C | C G | A A | A G | G G | A G | A A |
| 260 | 00 | A A | A G | 00 | A A | C T | 00 | C C | A A | A A | G G | A A | A A |
| 261 | 00 | A A | A G | 00 | A A | C T | 00 | 00 | A A | 00 | G G | 00 | A C |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 262 | 00 | A A | G G | 00 | A T | C C | C T | C G | A G | A G | A G | A G | A A |
| 263 | 00 | A G | A G | 00 | A T | C T | C C | C G | A A | A G | G G | A G | A A |
| 264 | 00 | A A | A A | 00 | A A | C T | C T | C C | A A | A A | G G | A G | A C |
| 265 | T T | A A | G G | C T | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 266 | C C | A G | A G | T T | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 267 | C C | A A | A G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 268 | C T | A A | G G | C C | T T | C T | C T | C G | A G | A G | A G | A G | A C |
| 269 | T T | A A | G G | T T | A A | C T | C C | C C | A A | A A | G G | A A | A A |
| 270 | C T | A A | G G | C T | A A | T T | C C | C C | A A | A A | G G | A A | A C |
| 271 | T T | A G | A G | T T | A T | C C | T T | G G | G G | A G | A G | A G | A A |
| 272 | C T | A G | A A | T T | A T | C C | T T | G G | G G | G G | A A | A G | A A |
| 273 | C T | A A | A G | C T | A A | C C | C C | G G | A G | A A | G G | A G | A A |
| 274 | T T | A A | G G | C T | A T | C C | C T | C G | A G | A G | A G | G G | A A |
| 275 | C T | A A | G G | C T | A T | C T | C T | C C | A A | A A | G G | A A | A A |
| 276 | C T | A A | A G | T T | T T | C C | 00 | 00 | A A | 00 | G G | 00 | A A |
| 277 | C C | A A | G G | C T | T T | C T | C C | C G | A A | A G | G G | A G | C C |
| 278 | C T | A A | G G | T T | A A | C T | C T | G G | A G | A G | A G | A G | A A |
| 279 | C T | A A | A G | C T | T T | C T | C C | C G | A A | A G | G G | A G | C C |
| 280 | C T | A A | A G | C T | T T | C C | C T | C G | A G | A G | A G | G G | A A |
| 281 | T T | A A | G G | T T | A A | C T | C T | C C | A A | A A | G G | A G | A A |
| 282 | C C | A A | A G | T T | A A | T T | C C | C G | A G | A G | A G | A G | A A |
| 283 | C T | A A | A G | T T | A T | C T | C C | C C | A A | A A | G G | A G | A A |
| 284 | C C | A G | A G | C T | A T | C C | C T | C C | A A | A A | G G | G G | A A |

| GENE | HIP1 | HIP1 | HIP1 | CCL26 | CCL26 | CDK5 | CDK5 | CDK5 | SIRT1 | SIRT1 | SIRT1 | SIRT1 | SIRT1 |
|------------|-----------|------------|------------|------------|-----------|--------|-----------|-----------|------------|------------|------------|------------|-----------|
| SNP/Sample | rs9649625 | rs12538253 | rs10275942 | rs11465353 | rs2868166 | rs9278 | rs2069459 | rs2069443 | rs17712705 | rs12778366 | rs10997866 | rs10997870 | rs7091896 |
| 1 | C C | C T | T T | T T | C C | G G | G G | C C | A G | C T | A G | G T | C G |
| 2 | A A | T T | C C | G T | A C | G G | G G | A C | G G | T T | G G | T T | G G |
| 3 | C C | C T | T T | T T | A C | G G | G T | A C | A A | C T | A A | G G | C C |
| 4 | C C | T T | T T | T T | C C | G G | T T | A A | G G | T T | G G | T T | G G |
| 5 | A C | C T | C T | G T | A C | A G | G G | A A | G G | T T | G G | T T | G G |
| 6 | C C | C T | T T | T T | C C | A G | G G | A C | A G | C T | A G | G T | C G |
| 7 | C C | C C | T T | T T | C C | G G | G T | A C | A G | T T | A G | G T | C G |
| 8 | C C | C C | T T | T T | A C | A G | G G | A C | G G | 00 | G G | 00 | G G |
| 9 | A C | T T | C T | G T | A A | G G | G T | A C | G G | T T | G G | T T | G G |
| 10 | C C | C T | T T | T T | 00 | A A | G G | A A | A G | C T | A G | G T | C G |
| 11 | A C | C T | C T | G T | A C | G G | G G | C C | A G | T T | A G | G T | C G |
| 12 | C C | 00 | T T | T T | C C | 00 | 00 | A C | G G | T T | G G | 00 | G G |
| 13 | C C | C T | T T | T T | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 14 | A A | T T | C C | G G | A A | A G | G G | A C | G G | T T | G G | T T | G G |
| 15 | A C | C T | C T | G T | A C | A G | G G | A A | A G | C T | A G | G T | C G |
| 16 | C C | T T | T T | T T | C C | G G | G G | A C | A G | C T | A G | G T | C G |
| 17 | A C | T T | C T | G T | A C | A G | G T | A A | A G | C T | A G | G T | C G |
| 18 | C C | C T | T T | T T | A C | G G | G T | A A | G G | T T | G G | T T | G G |
| 19 | A C | C T | C T | G T | A C | A G | G G | A A | A G | T T | A G | G T | C G |
| 20 | C C | C C | T T | T T | A C | G G | T T | A A | A A | C C | A A | G G | C C |
| 21 | C C | C T | T T | T T | C C | G G | T T | A A | A G | T T | A G | G T | C G |
| 22 | C C | T T | T T | T T | A C | G G | T T | A A | A G | C T | A G | G T | C G |
| 23 | C C | C T | T T | T T | C C | A G | G G | A A | A G | T T | A G | G T | C G |
| 24 | C C | T T | T T | T T | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 25 | C C | T T | T T | T T | A A | G G | G T | A A | G G | T T | G G | T T | G G |
| 26 | A A | T T | 00 | G G | A A | G G | G T | A C | G G | T T | G G | T T | G G |
| 27 | C C | C T | T T | T T | A C | A G | G G | A A | G G | T T | G G | T T | G G |
| 28 | C C | T T | T T | T T | A C | G G | G G | A A | G G | T T | G G | T T | G G |
| 29 | C C | T T | T T | T T | C C | G G | G G | A C | G G | T T | A G | G T | G G |
| 30 | C C | C C | T T | T T | C C | G G | G T | A C | G G | T T | G G | T T | G G |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 31 | A C | C T | C T | G T | A C | G G | T T | A A | G G | T T | G G | T T | G G |
| 32 | C C | C T | T T | T T | C C | A G | G G | A C | G G | T T | G G | T T | G G |
| 33 | C C | C T | T T | T T | C C | G G | G T | A C | G G | T T | G G | T T | G G |
| 34 | A C | C T | C T | G T | A C | G G | G T | A A | G G | T T | G G | T T | G G |
| 35 | A C | C T | C T | G T | A C | A G | G T | A A | G G | T T | G G | T T | G G |
| 36 | C C | C T | T T | T T | A C | G G | G G | C C | A G | C T | A G | G T | C G |
| 37 | C C | 0 0 | T T | T T | C C | 0 0 | 0 0 | C C | 0 0 | 0 0 | 0 0 | 0 0 | G G |
| 38 | A C | C T | C T | G T | A C | A G | G G | A C | A G | T T | A G | G T | C G |
| 39 | C C | 0 0 | T T | T T | C C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 40 | A C | T T | C T | G T | A C | A G | G G | A A | G G | T T | G G | T T | G G |
| 41 | C C | 0 0 | T T | T T | A C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 42 | A C | T T | C T | G T | A C | G G | G T | A A | A G | C T | A G | G T | C G |
| 43 | C C | 0 0 | T T | T T | A C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 44 | C C | C T | T T | T T | C C | G G | G T | A C | A G | T T | A G | G T | C G |
| 45 | C C | 0 0 | T T | T T | C C | 0 0 | 0 0 | A C | 0 0 | T T | 0 0 | 0 0 | C C |
| 46 | A A | T T | C C | G T | A C | G G | G T | A C | A G | C T | A G | G T | C G |
| 47 | A A | T T | C C | G G | A A | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |
| 48 | C C | C T | 0 0 | T T | C C | G G | G G | C C | G G | T T | G G | T T | G G |
| 49 | A C | C T | C T | G T | A C | G G | G G | A C | A G | T T | A G | G T | C G |
| 50 | A C | 0 0 | C T | G T | A C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 51 | A C | C T | C T | G T | A C | G G | G G | C C | G G | T T | G G | T T | G G |
| 52 | A C | 0 0 | C T | T T | C C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 53 | A C | C T | C T | G T | A C | G G | G T | A A | G G | T T | G G | T T | G G |
| 54 | C C | C C | T T | T T | C C | 0 0 | 0 0 | A A | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 55 | C C | C T | T T | T T | A C | G G | G G | A C | A G | C T | A G | G T | C G |
| 56 | C C | 0 0 | T T | T T | C C | 0 0 | 0 0 | A A | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 57 | C C | C T | T T | T T | C C | A G | G G | A C | A G | C T | A G | G T | C G |
| 58 | A A | T T | C C | G G | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 59 | C C | C C | T T | T T | C C | G G | G G | A C | A G | C T | A G | G T | C G |
| 60 | C C | C C | T T | T T | C C | 0 0 | G T | A A | G G | T T | G G | T T | G G |
| 61 | C C | C T | T T | T T | A C | G G | G T | A C | A G | T T | A G | G T | C G |
| 62 | A C | 0 0 | C T | G T | A C | 0 0 | 0 0 | A A | G G | 0 0 | 0 0 | 0 0 | G G |
| 63 | A C | T T | C T | G T | A A | A G | G T | A A | G G | T T | G G | T T | G G |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64 | A C | C T | T T | 0 0 | A A | G G | G G | C C | G G | T T | G G | T T | G G |
| 65 | C C | C C | T T | T T | C C | G G | G G | C C | A G | T T | A G | G T | C G |
| 66 | C C | 0 0 | T T | 0 0 | A C | A A | 0 0 | A A | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 67 | A C | C T | C T | G T | A C | G G | G G | C C | A G | C T | A G | G T | C G |
| 68 | A C | C C | C T | G T | A C | A G | G T | A A | A A | T T | A A | G G | C C |
| 69 | C C | T T | T T | T T | C C | G G | T T | A A | G G | T T | G G | T T | G G |
| 70 | A A | T T | C C | G G | A A | G G | G T | A A | G G | T T | G G | T T | G G |
| 71 | A C | T T | C T | G T | A C | G G | G T | A A | G G | T T | G G | T T | G G |
| 72 | C C | T T | T T | T T | C C | G G | G G | A C | A G | T T | A G | G T | C G |
| 73 | C C | C T | T T | T T | C C | G G | G G | C C | G G | T T | G G | T T | G G |
| 74 | C C | T T | T T | T T | C C | G G | T T | A A | A G | T T | A G | G T | C G |
| 75 | A C | C T | C T | G T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 76 | A C | C T | C T | G T | A C | A G | G T | A A | G G | T T | G G | T T | G G |
| 77 | C C | C T | T T | T T | C C | G G | G G | A A | A G | T T | A G | G T | C G |
| 78 | A C | C T | C T | G T | A C | A A | G G | A A | A A | C T | A A | G G | C C |
| 79 | C C | T T | T T | T T | C C | A G | G T | A A | A G | T T | A G | G T | C G |
| 80 | C C | C T | T T | T T | A C | G G | G G | A C | A G | T T | A G | G T | C G |
| 81 | A C | C T | C T | G T | A C | G G | G G | C C | G G | T T | G G | T T | G G |
| 82 | A C | C T | C T | G T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 83 | A C | C T | C T | G T | A C | G G | G T | A A | G G | T T | G G | T T | G G |
| 84 | C C | C T | T T | T T | C C | A G | G G | A A | A G | C T | A G | G T | C G |
| 85 | C C | C T | T T | T T | A C | G G | T T | A A | G G | T T | G G | T T | G G |
| 86 | C C | C C | T T | T T | C C | G G | G G | A C | G G | T T | G G | T T | G G |
| 87 | A A | C T | C C | G G | A A | G G | G T | A C | G G | T T | G G | T T | G G |
| 88 | C C | 0 0 | T T | T T | A C | A G | G G | A C | G G | T T | G G | T T | G G |
| 89 | 0 0 | T T | 0 0 | 0 0 | 0 0 | A G | G T | A C | G G | 0 0 | G G | T T | G G |
| 90 | A C | C T | 0 0 | G T | A C | G G | G T | A A | A G | T T | A A | G G | C G |
| 91 | C C | C T | T T | T T | C C | A G | G T | A A | A G | T T | 0 0 | 0 0 | C G |
| 92 | A C | C T | C T | G T | A C | A G | G G | A C | G G | T T | A G | G T | G G |
| 93 | A C | T T | 0 0 | G T | A C | A G | G T | A A | G G | T T | G G | T T | G G |
| 94 | C C | C T | T T | T T | C C | A G | G T | A A | A A | T T | A A | G G | C C |
| 95 | A C | C T | 0 0 | G T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 96 | A C | C T | C T | G T | A C | G G | G T | A C | A G | T T | A G | G T | C G |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 97 | A C | C T | 00 | G T | A C | G G | G G | A C | G G | T T | G G | T T | G G |
| 98 | A C | C T | 00 | G T | A C | G G | G T | A A | A A | C C | A A | G G | C C |
| 99 | C C | T T | T T | T T | A C | G G | G G | A C | A G | C T | A G | G T | C G |
| 100 | C C | 00 | T T | T T | A C | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 101 | A C | C T | C T | G T | A C | A G | G G | A C | A G | T T | A G | G T | C G |
| 102 | C C | T T | T T | T T | C C | G G | G G | A C | A G | C T | A G | G T | C G |
| 103 | A C | T T | C T | G T | A C | G G | G G | A C | A A | C T | A A | G G | C C |
| 104 | C C | C T | T T | T T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 105 | A C | C T | C T | T T | C C | G G | G T | A C | A A | C T | A A | G G | C C |
| 106 | C C | T T | T T | T T | C C | G G | G T | A C | G G | T T | G G | T T | G G |
| 107 | C C | C C | T T | T T | C C | G G | G T | A A | A G | T T | A G | G T | C G |
| 108 | C C | C T | T T | T T | C C | A G | G G | A A | G G | T T | G G | T T | G G |
| 109 | A C | T T | C T | G T | A C | G G | G G | A C | A G | T T | A G | G T | C G |
| 110 | C C | C T | T T | T T | A C | A G | G T | A A | G G | T T | G G | T T | G G |
| 111 | C C | T T | T T | T T | A A | G G | G T | A A | G G | T T | G G | T T | G G |
| 112 | C C | T T | T T | T T | A C | A G | G G | A C | A G | T T | A G | G T | C G |
| 113 | A C | T T | C T | G T | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 114 | C C | C T | T T | T T | C C | G G | G T | A A | G G | T T | G G | T T | G G |
| 115 | A C | T T | C T | G T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 116 | C C | C T | T T | T T | C C | G G | G T | A A | G G | T T | G G | T T | G G |
| 117 | C C | T T | T T | T T | A C | G G | G T | A A | A G | C T | A G | G T | C G |
| 118 | C C | C C | T T | T T | C C | A G | G G | A C | A G | C T | A G | G T | C G |
| 119 | C C | T T | T T | T T | A C | G G | G G | C C | G G | T T | G G | T T | G G |
| 120 | A C | C T | C T | T T | C C | A A | G G | A A | A G | C T | A G | G T | C G |
| 121 | C C | T T | T T | T T | A C | G G | G T | A C | A G | T T | A G | G T | C G |
| 122 | C C | C T | T T | T T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 123 | A C | T T | C T | G T | A C | A G | G T | A A | A G | C T | A G | G T | C G |
| 124 | A A | T T | 00 | G G | A A | G G | G T | A C | A G | C T | A G | G T | C G |
| 125 | C C | 00 | T T | T T | A C | A A | 00 | 00 | 00 | T T | A A | 00 | 00 |
| 126 | A C | T T | 00 | G T | A A | G G | G G | C C | A A | C T | A A | G G | C C |
| 127 | C C | T T | T T | T T | A C | A G | G G | A C | A G | C T | A G | G T | C G |
| 128 | A C | C T | C T | T T | C C | A G | G G | A C | G G | T T | G G | T T | G G |
| 129 | A C | T T | 00 | 00 | A A | 00 | 00 | A C | 00 | C T | G G | 00 | 00 |

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| 130 | A C | C T | C T | G T | A C | G G | T T | A A | A G | T T | A G | G T | C G |
| 131 | C C | C T | T T | T T | A C | 00 | 00 | A A | A A | C T | A A | G G | C C |
| 132 | A C | T T | C T | G T | A C | G G | T T | A A | A G | C T | A G | G T | C G |
| 133 | A C | T T | 00 | 00 | A A | G G | G T | A C | A A | T T | A A | G G | C C |
| 134 | A C | C T | C T | G T | A C | A G | G G | A A | A G | T T | A G | G T | C G |
| 135 | A C | T T | C T | T T | C C | A A | G G | A C | G G | T T | 00 | 00 | 00 |
| 136 | A C | T T | C T | G T | A A | A G | G G | A C | G G | T T | G G | T T | G G |
| 137 | C C | C T | T T | T T | A C | A G | G T | A A | A G | C T | A G | G T | C G |
| 138 | C C | T T | T T | T T | A C | G G | G T | A C | G G | T T | A G | G T | C G |
| 139 | A C | T T | C T | G T | A A | A G | G G | A C | A G | T T | A G | G T | C G |
| 140 | C C | T T | T T | T T | C C | A G | G T | A A | G G | T T | G G | T T | G G |
| 141 | A A | T T | 00 | G G | A A | G G | T T | A A | A G | T T | A G | G T | C G |
| 142 | A C | C T | C T | G T | A C | G G | G T | A A | G G | T T | A G | G T | G G |
| 143 | C C | T T | T T | T T | C C | A G | G G | A C | A G | C T | A G | G T | C G |
| 144 | C C | T T | T T | T T | A C | A G | G G | A A | A G | T T | A G | G T | C G |
| 145 | C C | T T | T T | T T | A C | A G | G T | A A | G G | T T | G G | T T | G G |
| 146 | C C | T T | T T | T T | C C | A G | G G | A A | A G | T T | A G | G T | C G |
| 147 | A C | C T | C T | G T | A C | G G | G G | A C | G G | T T | A G | G T | G G |
| 148 | C C | C T | T T | T T | A C | G G | G T | A A | A G | T T | A G | G T | C G |
| 149 | A C | T T | C T | G T | A A | G G | T T | A A | A G | T T | A G | G T | C G |
| 150 | A C | C T | C T | G T | A C | A A | 00 | A C | A G | T T | G G | 00 | 00 |
| 151 | C C | T T | T T | T T | A C | A G | G T | A A | A G | T T | A G | G T | C G |
| 152 | 00 | C T | T T | T T | C C | A G | G G | A A | G G | T T | G G | T T | G G |
| 153 | C C | C C | T T | T T | C C | G G | T T | A A | A G | C T | A G | G T | C G |
| 154 | A C | T T | 00 | 00 | 00 | G G | T T | A A | G G | T T | G G | T T | G G |
| 155 | A C | C T | C T | G T | A C | G G | G T | A C | G G | T T | G G | T T | G G |
| 156 | C C | C T | T T | T T | C C | G G | G T | A A | A G | T T | A G | G T | C G |
| 157 | A C | T T | C T | G T | A A | G G | G T | A A | A A | C T | A A | G G | C C |
| 158 | A C | C T | 00 | 00 | A C | 00 | G G | A C | G G | T T | 00 | 00 | 00 |
| 159 | C C | C C | T T | T T | C C | A G | G G | A A | G G | T T | G G | T T | G G |
| 160 | A C | 00 | 00 | 00 | A C | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 161 | A A | T T | C C | G G | A A | A G | G T | A A | A G | T T | A G | G T | C G |
| 162 | C C | T T | C T | G T | A C | A G | G T | A C | A G | C T | A G | G T | C G |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 163 | C C | T T | T T | T T | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 164 | A C | T T | C T | G T | A A | A G | G T | A A | G G | T T | G G | T T | G G |
| 165 | C C | C T | T T | T T | A C | G G | G T | A C | G G | T T | A G | G T | G G |
| 166 | C C | C T | T T | T T | C C | A G | G G | A C | A G | C T | A G | G T | C G |
| 167 | C C | C T | T T | T T | C C | G G | G T | A A | G G | T T | G G | T T | G G |
| 168 | A C | T T | C T | G T | A C | G G | T T | A A | A G | T T | A G | G T | C G |
| 169 | C C | T T | T T | T T | C C | G G | G T | A C | G G | T T | G G | T T | G G |
| 170 | A C | T T | C T | G T | A A | G G | T T | A A | G G | T T | G G | T T | G G |
| 171 | A C | C T | C T | G T | A C | G G | T T | A A | G G | T T | G G | T T | G G |
| 172 | 0 0 | T T | 0 0 | 0 0 | 0 0 | G G | 0 0 | A A | A A | T T | A A | G G | C C |
| 173 | A C | T T | C T | G T | A A | A G | G T | A A | A G | T T | A G | G T | C G |
| 174 | A A | T T | C C | G G | A A | G G | G T | A A | A G | T T | A G | G T | C G |
| 175 | C C | C C | T T | T T | C C | A G | G T | A A | G G | T T | G G | T T | G G |
| 176 | C C | C C | T T | T T | C C | A G | G T | A A | G G | T T | G G | T T | G G |
| 177 | A C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A C | G G | T T | 0 0 | 0 0 | G G |
| 178 | C C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A C | A G | T T | 0 0 | 0 0 | C G |
| 179 | A A | T T | 0 0 | 0 0 | A A | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | C G |
| 180 | C C | C T | 0 0 | 0 0 | C C | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |
| 181 | A C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | C C | A G | C T | 0 0 | 0 0 | C G |
| 182 | C C | C T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A A | A A | T T | 0 0 | 0 0 | C C |
| 183 | A C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |
| 184 | A C | T T | 0 0 | 0 0 | A A | 0 0 | 0 0 | A A | G G | C T | 0 0 | 0 0 | C G |
| 185 | A A | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |
| 186 | A C | T T | 0 0 | 0 0 | A A | 0 0 | 0 0 | A A | A G | T T | 0 0 | 0 0 | C G |
| 187 | C C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A A | A G | T T | 0 0 | 0 0 | C G |
| 188 | C C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A C | 0 0 | T T | 0 0 | 0 0 | C G |
| 189 | C C | 0 0 | 0 0 | 0 0 | A C | 0 0 | 0 0 | A C | G G | T T | 0 0 | 0 0 | G G |
| 190 | A C | T T | 0 0 | 0 0 | A C | 0 0 | G G | C C | A G | C T | 0 0 | 0 0 | C G |
| 191 | A C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |
| 192 | A C | T T | 0 0 | 0 0 | A C | 0 0 | 0 0 | A C | G G | T T | 0 0 | 0 0 | G G |
| 193 | A C | T T | 0 0 | 0 0 | A A | 0 0 | T T | A A | A A | T T | 0 0 | 0 0 | C C |
| 194 | C C | C T | 0 0 | 0 0 | C C | 0 0 | 0 0 | A A | A G | T T | 0 0 | 0 0 | C G |
| 195 | C C | T T | 0 0 | 0 0 | C C | 0 0 | 0 0 | A A | G G | T T | 0 0 | 0 0 | G G |

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|-----|-----|-----|----|----|-----|----|-----|-----|-----|-----|----|----|-----|
| 196 | A C | T T | 00 | 00 | A C | 00 | 00 | A C | G G | T T | 00 | 00 | G G |
| 197 | C C | C T | 00 | 00 | A C | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 198 | C C | C C | 00 | 00 | C C | 00 | 00 | A C | A G | T T | 00 | 00 | C G |
| 199 | C C | C C | 00 | 00 | C C | 00 | G G | A A | G G | T T | 00 | 00 | G G |
| 200 | C C | T T | 00 | 00 | A C | 00 | G T | A C | G G | T T | 00 | 00 | G G |
| 201 | A C | 00 | 00 | 00 | C C | 00 | 00 | A A | G G | T T | 00 | 00 | G G |
| 202 | A C | T T | 00 | 00 | A C | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 203 | C C | C T | 00 | 00 | C C | 00 | 00 | A C | 00 | T T | 00 | 00 | G G |
| 204 | C C | C T | 00 | 00 | C C | 00 | G G | A A | G G | T T | 00 | 00 | G G |
| 205 | C C | C T | 00 | 00 | A C | 00 | T T | A A | G G | T T | 00 | 00 | G G |
| 206 | A C | T T | 00 | 00 | A A | 00 | 00 | A C | A G | C T | 00 | 00 | C G |
| 207 | A C | T T | 00 | 00 | A C | 00 | 00 | A A | G G | T T | 00 | 00 | G G |
| 208 | C C | T T | 00 | 00 | A C | 00 | 00 | A C | A A | C C | 00 | 00 | C C |
| 209 | C C | T T | 00 | 00 | A C | 00 | 00 | A C | A A | C C | 00 | 00 | C C |
| 210 | C C | C T | 00 | 00 | C C | 00 | T T | A A | 00 | T T | 00 | 00 | G G |
| 211 | A C | T T | 00 | 00 | A C | 00 | 00 | A C | G G | T T | 00 | 00 | G G |
| 212 | A C | T T | 00 | 00 | A A | 00 | 00 | A A | A G | T T | 00 | 00 | C G |
| 213 | A C | T T | 00 | 00 | A C | 00 | G G | A A | G G | T T | 00 | 00 | G G |
| 214 | C C | T T | 00 | 00 | C C | 00 | 00 | A A | A G | T T | 00 | 00 | C G |
| 215 | A A | 00 | 00 | 00 | A C | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 216 | C C | C T | 00 | 00 | C C | 00 | 00 | A C | G G | T T | 00 | 00 | G G |
| 217 | A A | T T | 00 | 00 | A A | 00 | T T | A A | A G | T T | 00 | 00 | C G |
| 218 | C C | C C | 00 | 00 | C C | 00 | 00 | A C | A G | T T | 00 | 00 | C G |
| 219 | C C | C T | 00 | 00 | C C | 00 | G G | C C | A G | C T | 00 | 00 | C G |
| 220 | A A | T T | 00 | 00 | A A | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 221 | C C | C T | 00 | 00 | C C | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 222 | C C | C T | 00 | 00 | A C | 00 | T T | A A | G G | T T | 00 | 00 | G G |
| 223 | C C | T T | 00 | 00 | A A | 00 | G T | A A | A A | C C | 00 | 00 | C C |
| 224 | A C | C T | 00 | 00 | A C | 00 | 00 | A C | A G | T T | 00 | 00 | C G |
| 225 | A C | T T | 00 | 00 | A C | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 226 | A C | 00 | 00 | 00 | A A | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 227 | A C | C T | 00 | 00 | A C | 00 | G G | C C | 00 | T T | 00 | 00 | G G |
| 228 | A A | T T | 00 | 00 | A A | 00 | G G | A C | 00 | T T | 00 | 00 | G G |

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|-----|-----|-----|----|----|-----|----|-----|-----|-----|-----|----|----|-----|
| 229 | C C | C T | 00 | 00 | C C | 00 | T T | A A | A G | T T | 00 | 00 | C G |
| 230 | A A | T T | 00 | 00 | A C | 00 | 00 | A C | A G | T T | 00 | 00 | G G |
| 231 | C C | T T | 00 | 00 | C C | 00 | T T | A A | G G | T T | 00 | 00 | G G |
| 232 | A C | T T | 00 | 00 | A C | 00 | 00 | A A | 00 | T T | 00 | 00 | G G |
| 233 | C C | C C | 00 | 00 | C C | 00 | G T | A C | 00 | T T | 00 | 00 | G G |
| 234 | C C | T T | 00 | 00 | A A | 00 | G G | A C | A G | T T | 00 | 00 | C G |
| 235 | C C | T T | 00 | 00 | A C | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 236 | C C | C C | 00 | 00 | C C | 00 | G T | A C | 00 | T T | 00 | 00 | G G |
| 237 | A C | 00 | 00 | 00 | A C | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 238 | C C | T T | 00 | 00 | A C | 00 | G G | A A | A G | T T | 00 | 00 | C G |
| 239 | A A | T T | 00 | 00 | A A | 00 | G T | A C | G G | T T | 00 | 00 | G G |
| 240 | A C | C T | 00 | 00 | A C | 00 | G T | A C | G G | T T | 00 | 00 | G G |
| 241 | C C | T T | 00 | 00 | C C | 00 | T T | A A | G G | T T | 00 | 00 | G G |
| 242 | A C | T T | 00 | 00 | A A | 00 | G T | A A | A G | C T | 00 | 00 | C G |
| 243 | C C | T T | 00 | 00 | C C | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 244 | C C | C C | 00 | 00 | C C | 00 | 00 | A C | G G | T T | 00 | 00 | G G |
| 245 | A A | T T | 00 | 00 | A A | 00 | G T | A A | A G | T T | 00 | 00 | C G |
| 246 | A C | C T | 00 | 00 | A C | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 247 | A A | T T | 00 | 00 | A A | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 248 | C C | C T | 00 | 00 | A C | 00 | T T | A A | A G | C T | 00 | 00 | C G |
| 249 | A C | 00 | 00 | 00 | A A | 00 | G G | A C | A G | T T | 00 | 00 | G G |
| 250 | A C | T T | 00 | 00 | A C | 00 | G G | C C | A G | T T | 00 | 00 | C G |
| 251 | A C | T T | 00 | 00 | A A | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 252 | A C | T T | 00 | 00 | C C | 00 | G G | A A | 00 | T T | 00 | 00 | G G |
| 253 | A C | C T | 00 | 00 | A C | 00 | T T | A A | A G | T T | 00 | 00 | C G |
| 254 | C C | T T | 00 | 00 | A A | 00 | 00 | A A | A G | C T | 00 | 00 | C G |
| 255 | C C | C T | 00 | 00 | C C | 00 | T T | A A | A G | T T | 00 | 00 | C G |
| 256 | C C | T T | 00 | 00 | A C | 00 | G G | A A | G G | T T | 00 | 00 | G G |
| 257 | C C | C C | 00 | 00 | C C | 00 | G G | A A | G G | T T | 00 | 00 | G G |
| 258 | C C | T T | 00 | 00 | A C | 00 | T T | A A | A G | C T | 00 | 00 | C G |
| 259 | C C | C T | 00 | 00 | C C | 00 | G G | A C | A G | T T | 00 | 00 | C G |
| 260 | A C | T T | 00 | 00 | A C | 00 | G G | A C | A G | T T | 00 | 00 | C G |
| 261 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | A C | G G | T T | 00 | 00 | G G |

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|-----|-----|-----|----|----|-----|----|-----|-----|-----|-----|----|----|-----|
| 262 | C C | C C | 00 | 00 | C C | 00 | G T | A C | A A | C T | 00 | 00 | C C |
| 263 | A C | T T | 00 | 00 | C C | 00 | G G | A C | G G | T T | 00 | 00 | G G |
| 264 | A C | T T | 00 | 00 | A A | 00 | G T | A A | G G | T T | 00 | 00 | G G |
| 265 | CC | CT | TT | 00 | CC | GG | GT | AC | GG | TT | GG | TT | GG |
| 266 | AA | TT | CC | 00 | AA | AG | GG | AC | GG | TT | GG | TT | GG |
| 267 | CC | CT | TT | 00 | CC | GG | GT | AA | AG | TT | AG | GT | CG |
| 268 | AC | TT | CT | 00 | AC | GG | GG | AA | GG | TT | GG | TT | GG |
| 269 | CC | CT | TT | 00 | CC | GG | GT | AC | AG | CT | AG | GT | CG |
| 270 | CC | TT | TT | 00 | AC | AG | GG | AA | AG | TT | AG | GT | CG |
| 271 | AC | CT | CT | 00 | AC | AG | GT | AA | AG | CT | AA | GG | CC |
| 272 | CC | CC | TT | 00 | CC | GG | GG | AC | AG | CT | AA | GG | CG |
| 273 | CC | TT | TT | 00 | CC | AG | GT | AA | GG | TT | GG | TT | GG |
| 274 | AA | TT | CC | 00 | AA | GG | GG | AC | AG | CT | AA | GG | CG |
| 275 | AC | CT | 00 | 00 | CC | AG | GG | AC | AG | TT | AG | GT | CG |
| 276 | 00 | TT | 00 | 00 | 00 | GG | GT | AC | GG | TT | GG | TT | GG |
| 277 | CC | TT | TT | 00 | AA | AG | GT | AA | GG | TT | GG | TT | GG |
| 278 | AC | TT | CT | 00 | AC | GG | TT | AA | GG | TT | GG | TT | GG |
| 279 | CC | TT | TT | 00 | AA | AG | GT | AA | GG | TT | GG | TT | GG |
| 280 | CC | TT | TT | 00 | CC | GG | GG | CC | AG | TT | AG | GT | CG |
| 281 | CC | CT | TT | 00 | CC | GG | GT | AC | AG | TT | AG | GT | CG |
| 282 | AC | CT | CT | 00 | AC | GG | GT | AA | GG | TT | GG | TT | GG |
| 283 | AC | TT | CT | 00 | CC | GG | GG | CC | GG | TT | GG | TT | GG |
| 284 | AC | CT | CT | 00 | AC | GG | GT | AA | GG | TT | GG | TT | GG |

| GENE | SIRT1 | BDNF | BDNF | BDNF | LINC01559 | LINC01559 | LINC01559 | LINC01559 | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B |
|------------|------------|-----------|--------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| SNP/Sample | rs10997875 | rs7124442 | rs6265 | rs11030121 | rs1457624 | rs17821405 | rs12423809 | rs10845757 | rs10845763 | rs10744030 | rs12814951 | rs1806191 | rs1806201 |
| 1 | C T | T T | A A | C C | A C | G G | A A | C T | A C | A G | G T | A G | G G |
| 2 | C C | C T | G G | C T | A C | G G | A A | T T | A C | A G | T T | A A | G G |
| 3 | T T | C T | G G | C T | C C | G T | A C | C C | A C | G G | G T | A G | G G |
| 4 | C C | T T | G G | C C | A A | G G | A A | T T | A A | G G | G T | A A | G G |
| 5 | C C | T T | A A | C C | A C | G T | A C | C C | A A | G G | G T | A G | A G |
| 6 | C T | T T | G G | C C | A C | G T | A C | C C | A C | G G | T T | A A | G G |
| 7 | 0 0 | T T | G G | C C | A C | G G | A A | T T | A A | A A | G T | A G | A G |
| 8 | 0 0 | T T | A G | C C | A C | G T | C C | C C | C C | A A | 0 0 | A G | A G |
| 9 | C C | C C | G G | T T | A A | G G | A A | C T | A C | A G | G G | A G | G G |
| 10 | C T | T T | A G | C C | C C | G T | A C | C C | A C | G G | G T | A G | G G |
| 11 | C T | T T | G G | C C | A A | G G | A A | C C | A C | A G | G G | G G | A G |
| 12 | C C | T T | A G | C C | C C | G T | A C | C T | A C | G G | T T | A A | G G |
| 13 | C C | T T | G G | C C | C C | T T | A C | C C | A A | A G | T T | A A | G G |
| 14 | C C | C C | G G | T T | C C | T T | C C | C C | C C | A A | G T | A G | G G |
| 15 | C T | T T | G G | C T | A C | G T | A C | C T | A C | A G | G T | A G | A G |
| 16 | C T | T T | A A | C C | A C | G T | A A | C T | A C | A G | G G | G G | G G |
| 17 | C T | T T | G G | C C | A C | G T | A C | C T | C C | G G | G G | G G | G G |
| 18 | C C | C T | G G | C T | A C | G T | C C | C C | C C | G G | G T | A G | G G |
| 19 | 0 0 | C T | G G | C T | C C | T T | C C | C C | A C | A G | T T | A G | G G |
| 20 | 0 0 | C C | G G | T T | A A | G G | A A | T T | C C | G G | G T | A G | G G |
| 21 | C T | T T | G G | C C | C C | G T | A C | C T | A C | G G | T T | A A | G G |
| 22 | C T | T T | A G | C C | A C | G G | A C | C T | C C | A A | G T | A A | G G |
| 23 | C T | C T | A G | C T | A A | G G | A A | T T | A C | G G | T T | A A | G G |
| 24 | C C | C T | G G | C T | C C | G T | A C | C T | A C | A G | T T | A A | G G |
| 25 | C C | T T | A G | C C | C C | G G | A A | T T | A A | G G | G T | A G | A G |
| 26 | C C | C T | G G | C T | C C | G T | A C | C C | A A | A G | T T | A A | G G |
| 27 | C C | T T | G G | C C | A A | G G | A A | C T | A C | G G | G G | G G | A G |
| 28 | C C | T T | G G | C C | A A | G G | A C | C T | A C | G G | T T | A A | G G |
| 29 | C C | T T | A G | C C | A A | G G | A A | C T | A C | A G | T T | A A | G G |
| 30 | C C | T T | G G | C C | C C | T T | A C | C C | A A | A G | G T | A G | A G |

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 31 | 00 | TT | AG | CC | AA | GG | AA | CT | CC | AG | TT | AG | GG |
| 32 | 00 | CC | GG | TT | CC | GT | AC | CT | AC | AG | GG | GG | AA |
| 33 | CC | CT | AG | CT | CC | GT | AC | CT | AC | GG | TT | AA | GG |
| 34 | CC | TT | AG | CC | AA | GG | AA | TT | AC | GG | TT | AA | GG |
| 35 | CC | CT | GG | CT | AC | GT | AC | CC | CC | AA | GG | GG | AG |
| 36 | CT | TT | AG | CC | AA | GG | AA | TT | AA | AG | GT | GG | AG |
| 37 | 00 | CC | GG | TT | AA | GG | AA | CT | AC | AG | 00 | AA | GG |
| 38 | CT | TT | GG | CC | AA | GG | AA | CT | AA | GG | GT | AA | GG |
| 39 | 00 | TT | GG | CT | AC | GT | AC | CT | CC | AA | 00 | AA | GG |
| 40 | CC | TT | AG | CC | AC | GT | AC | CC | AC | AA | GG | GG | AA |
| 41 | 00 | TT | AG | CC | AC | GT | AC | TT | AA | AG | 00 | AG | AG |
| 42 | CT | CT | GG | CT | CC | GT | AC | CT | AA | GG | GT | AG | AG |
| 43 | 00 | CT | GG | CC | CC | GT | AC | CC | CC | GG | 00 | AG | AG |
| 44 | 00 | TT | AG | CC | CC | GT | CC | CC | CC | AG | GG | GG | GG |
| 45 | TT | CT | GG | CT | AA | GG | AA | TT | CC | GG | 00 | AG | AG |
| 46 | CT | CC | GG | TT | CC | GT | AC | CT | AC | GG | GT | GG | GG |
| 47 | CC | TT | GG | CC | AA | GG | AC | CT | AA | GG | 00 | AA | GG |
| 48 | CC | CC | GG | TT | CC | TT | AC | CT | CC | GG | TT | AG | GG |
| 49 | CT | CT | AG | CT | AA | GG | AA | CT | AA | GG | GT | AG | AG |
| 50 | 00 | CT | GG | CT | AC | GT | AC | CT | AC | AG | 00 | AA | GG |
| 51 | CC | TT | GG | CC | CC | GT | CC | CC | AC | GG | TT | AA | GG |
| 52 | 00 | TT | AG | CC | AC | GG | AA | TT | CC | AG | 00 | GG | AG |
| 53 | CC | CT | AG | CT | AC | GT | AC | CT | AA | AG | GT | AG | AG |
| 54 | CT | TT | GG | CC | AC | GG | AC | CC | AC | AG | 00 | GG | GG |
| 55 | 00 | TT | GG | CC | CC | TT | CC | CC | CC | AG | GT | AG | GG |
| 56 | 00 | TT | GG | CC | AA | GG | AA | CC | AC | GG | 00 | GG | AG |
| 57 | CT | CT | GG | CT | AC | GG | AC | CT | AC | AG | GT | AA | GG |
| 58 | CC | CT | GG | 00 | AA | GG | AA | TT | AC | AA | GT | AG | AG |
| 59 | CT | TT | GG | CC | AA | GG | AA | TT | AA | AG | TT | AA | GG |
| 60 | CC | TT | GG | CC | AC | GT | AC | CT | AC | GG | GG | GG | AG |
| 61 | CT | TT | AG | CC | CC | TT | AC | CC | CC | AG | GG | AA | GG |
| 62 | CC | CT | GG | CT | AC | GG | AA | TT | CC | GG | 00 | AG | AG |
| 63 | CC | CT | AG | CT | AC | GG | CC | CC | CC | GG | GT | AA | GG |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64 | C C | T T | G G | C C | C C | 00 | C C | C T | A C | G G | G T | A G | G G |
| 65 | C T | T T | A G | C C | A A | G G | A A | T T | C C | A G | T T | A A | G G |
| 66 | C T | T T | G G | C C | 00 | T T | A A | 00 | A A | A A | G G | G G | A A |
| 67 | 00 | C T | A G | C T | A C | G T | A C | C T | A C | A A | G G | A G | A G |
| 68 | 00 | T T | G G | C C | A C | G G | A C | C T | A A | G G | G T | A G | A G |
| 69 | C C | T T | A G | C C | A C | G G | C C | C C | A C | A G | G T | A A | G G |
| 70 | C C | C T | G G | C T | A C | G T | A C | C T | A C | A G | G T | A A | G G |
| 71 | C C | T T | G G | C C | A C | G G | A A | T T | C C | G G | G G | G G | A G |
| 72 | C T | T T | A G | C C | A C | G T | A C | C T | A C | A A | G T | A G | A G |
| 73 | C C | T T | A A | C C | A C | G T | C C | C C | C C | G G | G G | G G | G G |
| 74 | C T | T T | G G | C C | A C | G T | A A | C T | A C | A G | T T | A A | G G |
| 75 | C C | C C | G G | T T | C C | G T | C C | C C | A C | G G | T T | A A | G G |
| 76 | C C | C T | G G | C T | A C | G G | A A | C C | C C | A G | T T | A A | G G |
| 77 | C T | C C | G G | T T | C C | T T | C C | C C | C C | A A | G T | A A | G G |
| 78 | T T | T T | G G | C C | A C | G T | A C | C C | A A | G G | G T | A G | G G |
| 79 | 00 | C T | A G | C T | A C | G T | A C | C T | A A | G G | G T | A A | G G |
| 80 | 00 | C T | G G | C T | A C | G G | A C | C T | C C | A G | G T | A G | A G |
| 81 | C C | C T | G G | C T | A A | G G | A C | C T | A C | A G | G G | A G | A G |
| 82 | C C | T T | G G | C C | A C | G G | A A | T T | A C | A G | G T | A G | A G |
| 83 | C C | T T | G G | C C | A C | G T | A C | C T | C C | A G | G T | A G | G G |
| 84 | C T | T T | G G | C C | A C | G T | A C | C T | A C | A G | G T | G G | A G |
| 85 | C C | C T | G G | C T | C C | G G | A C | C T | C C | A A | T T | A A | G G |
| 86 | C C | C T | G G | C T | A C | G G | A A | C T | A A | G G | G T | A G | G G |
| 87 | 00 | C T | A G | C T | A C | G T | A C | C T | C C | G G | G T | A G | G G |
| 88 | C C | T T | A G | C C | A A | G G | A A | C C | A C | G G | G T | A A | G G |
| 89 | C C | C C | G G | 00 | 00 | 00 | 00 | 00 | 00 | G G | 00 | 00 | 00 |
| 90 | C T | C T | G G | C T | C C | G G | A A | T T | C C | G G | G G | G G | G G |
| 91 | C T | T T | G G | C C | C C | G T | C C | C C | A C | A G | G T | A G | A G |
| 92 | C C | C T | G G | C T | A A | G G | A A | C T | A A | G G | G T | A A | G G |
| 93 | C C | T T | A G | C C | A C | G T | A A | C T | A C | A G | G G | G G | A A |
| 94 | T T | C T | G G | C T | C C | T T | A C | C T | A A | G G | G T | A A | G G |
| 95 | C C | C T | G G | C C | C C | G G | A A | C T | A A | A G | G T | A G | G G |
| 96 | C T | C C | G G | T T | C C | G T | C C | C C | A C | A G | G G | G G | A G |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 97 | C C | C T | G G | C T | A C | G T | A C | C C | A C | A A | G T | A G | G G |
| 98 | T T | T T | G G | C C | C C | G G | A C | C T | A C | A G | T T | G G | G G |
| 99 | C T | T T | A A | C C | A A | G G | A A | T T | A C | G G | T T | A G | G G |
| 100 | 0 0 | T T | G G | C T | A A | G G | A A | C T | C C | G G | 0 0 | A G | G G |
| 101 | C T | T T | A G | C C | A C | G T | A C | C T | A C | A G | T T | A G | G G |
| 102 | C T | T T | G G | C C | A A | G G | A A | C C | A A | A G | G G | G G | A A |
| 103 | T T | T T | G G | C C | C C | G T | C C | C C | C C | G G | G G | G G | A A |
| 104 | C C | T T | G G | C C | C C | T T | C C | C C | C C | A G | G T | A G | G G |
| 105 | T T | T T | A A | C C | A C | G G | A A | C T | A C | G G | T T | A A | G G |
| 106 | C C | C T | G G | C T | A A | G G | A A | C T | A C | A G | T T | A A | G G |
| 107 | C T | C T | G G | C T | C C | G G | A A | C T | A A | A G | G T | A G | G G |
| 108 | C C | C C | G G | T T | C C | T T | C C | C C | A C | G G | G G | A G | A G |
| 109 | C T | C T | A G | C T | A A | G G | A A | T T | A C | A A | T T | A A | G G |
| 110 | C C | C T | G G | C T | C C | T T | C C | C C | A C | G G | G T | A G | A G |
| 111 | C C | T T | A G | C C | C C | G G | C C | C C | A C | G G | G T | G G | A G |
| 112 | C T | C C | G G | 0 0 | A C | G G | A A | T T | C C | A A | G T | A G | A G |
| 113 | C C | C T | A G | C T | A C | G T | A A | T T | C C | A G | G T | A G | G G |
| 114 | C C | C T | G G | C C | C C | G T | A C | C T | A C | A G | G T | A A | G G |
| 115 | C C | C T | G G | C T | A A | G G | A C | C T | A A | G G | G T | A G | A G |
| 116 | C C | T T | G G | C C | A C | G T | A C | C T | A A | A G | G T | A G | A G |
| 117 | C T | T T | G G | C C | A A | G G | A A | T T | A C | G G | G T | A G | A G |
| 118 | C T | C T | G G | C T | A C | G T | A C | C T | A A | G G | G T | A G | A G |
| 119 | C C | C T | A G | C T | A C | G G | A A | C T | C C | A A | G T | A G | A G |
| 120 | C T | C T | A G | C T | C C | G G | C C | C C | A C | A G | G G | G G | A G |
| 121 | C T | C T | G G | C T | A C | G T | A A | C T | C C | G G | T T | A A | G G |
| 122 | C C | C T | G G | C T | A C | G T | A C | C C | C C | A G | T T | A A | G G |
| 123 | C T | C T | A G | C T | A C | G T | A C | C T | A C | A G | T T | A A | G G |
| 124 | C T | C T | G G | C T | C C | G G | A A | C T | C C | G G | G G | G G | G G |
| 125 | C T | C C | G G | T T | A A | G G | A C | C T | A A | A G | G G | A G | A G |
| 126 | T T | T T | G G | C C | C C | T T | A C | C C | A C | A G | G G | G G | A G |
| 127 | C T | T T | G G | C C | C C | T T | A A | C C | A C | G G | G G | A G | G G |
| 128 | C C | T T | G G | C C | A C | G T | A C | C T | C C | A G | G T | A G | A G |
| 129 | C T | T T | G G | C C | C C | 0 0 | A A | 0 0 | A C | G G | G T | G G | A G |

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| 130 | C T | T T | G G | C C | A A | G G | A A | T T | A C | G G | G T | A G | A G |
| 131 | T T | T T | G G | C C | C C | T T | A C | C C | A C | A G | G G | G G | A A |
| 132 | C T | T T | A G | C C | C C | G T | A C | C T | A C | A G | T T | A A | G G |
| 133 | T T | 00 | 00 | 00 | C C | 00 | C C | 00 | A A | 00 | T T | 00 | G G |
| 134 | C T | T T | A G | C C | C C | G T | A C | C C | A C | G G | T T | A A | G G |
| 135 | C C | T T | A G | C C | A C | G T | A C | C T | C C | A G | T T | A G | G G |
| 136 | C C | T T | G G | C C | A A | G G | A C | C T | A C | G G | G T | A G | A G |
| 137 | C T | C T | A G | C T | A C | G G | A C | C T | C C | G G | G G | A G | G G |
| 138 | C T | C T | A G | C T | A C | G T | A C | C T | A C | A G | G T | A A | G G |
| 139 | C T | T T | A G | C C | A C | G T | A C | C C | A A | A G | T T | A A | G G |
| 140 | C C | C C | G G | T T | A C | G T | A C | C C | A C | G G | G G | A G | G G |
| 141 | C T | C C | G G | T T | C C | G T | A C | C T | C C | G G | T T | A G | G G |
| 142 | C C | T T | A G | C C | C C | T T | C C | C C | A A | G G | T T | A A | G G |
| 143 | C T | C C | G G | T T | A C | G T | A C | C C | A A | A G | G G | G G | A G |
| 144 | C T | T T | A A | C C | A C | G T | A C | C T | A C | A G | G G | A A | G G |
| 145 | C C | T T | A G | C C | C C | G T | A C | C T | C C | A G | G G | G G | A A |
| 146 | C T | C T | G G | C T | C C | G T | C C | C C | C C | G G | G T | A G | G G |
| 147 | C C | 00 | 00 | 00 | C C | G G | C C | C C | C C | 00 | G T | 00 | G G |
| 148 | C T | C T | A G | C T | A C | G T | C C | C C | A C | A G | G T | A G | A G |
| 149 | C T | C T | G G | C T | C C | T T | A C | C C | A C | A G | G T | A G | G G |
| 150 | C T | C T | G G | C C | C C | T T | A C | C C | A C | A G | G G | G G | A G |
| 151 | C T | T T | A G | C C | A C | G T | A A | C C | A C | G G | G T | A A | G G |
| 152 | C C | T T | G G | C C | A C | G T | A C | C T | A C | A A | G T | A G | G G |
| 153 | C T | C T | G G | C T | A A | G G | A A | C T | A A | G G | G G | A A | G G |
| 154 | C C | C T | G G | C T | 00 | T T | A A | 00 | C C | A G | G T | A A | G G |
| 155 | C C | C T | G G | C T | A C | G G | A A | T T | A C | G G | T T | A A | G G |
| 156 | C T | C T | A G | C T | A C | G T | A C | C T | A C | A G | G G | A G | A G |
| 157 | T T | T T | G G | C C | C C | G T | C C | C C | A C | A A | T T | A A | G G |
| 158 | C C | C T | G G | C T | C C | 00 | C C | C T | A A | A G | G G | A G | A G |
| 159 | C C | C T | A G | C T | A C | G T | A C | C T | A C | G G | G T | A A | G G |
| 160 | 00 | C T | G G | C T | 00 | 00 | A C | 00 | A C | G G | 00 | A G | A G |
| 161 | C T | T T | G G | C C | A C | G T | A C | C T | A C | A G | T T | A A | G G |
| 162 | C T | C T | G G | C T | A C | G G | A A | C T | C C | A G | G G | G G | A G |

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| 163 | C C | C T | G G | C T | C C | G G | A A | T T | A C | A G | G G | A G | A G |
| 164 | C C | T T | A G | C C | A C | G G | A C | C T | A C | G G | G T | A A | G G |
| 165 | C C | T T | G G | C C | A A | G G | A A | T T | A A | G G | G T | A A | G G |
| 166 | C T | C T | G G | C T | C C | T T | A C | C C | A C | G G | G T | A G | A G |
| 167 | C C | T T | G G | C C | A C | G T | A A | C T | A C | A G | G G | A A | G G |
| 168 | C T | C T | G G | C T | A A | G G | A A | C T | C C | A A | G T | A A | G G |
| 169 | C C | T T | A G | C C | A C | G T | A C | C T | A A | A G | G T | A G | A G |
| 170 | C C | C C | G G | T T | C C | G T | A C | C T | C C | A G | G T | A G | G G |
| 171 | C C | T T | A G | C C | A C | G T | A C | C T | A C | A G | G G | G G | A A |
| 172 | T T | T T | A A | C C | 00 | 00 | 00 | 00 | 00 | A A | 00 | A G | 00 |
| 173 | C T | C T | G G | C T | A A | G G | A A | C T | A C | G G | G T | G G | A G |
| 174 | C T | T T | G G | C C | A A | G G | A A | T T | A A | G G | T T | A A | G G |
| 175 | C C | C T | G G | C T | A C | G G | A A | C T | A A | A G | T T | A A | G G |
| 176 | C C | T T | G G | C C | A C | G T | A C | C C | A A | G G | G T | A G | G G |
| 177 | C T | C T | G G | 00 | A C | 00 | A C | C T | A C | A G | G G | G G | A G |
| 178 | C T | T T | A G | 00 | C C | 00 | A C | C C | C C | A G | G G | G G | A G |
| 179 | C T | T T | G G | 00 | A A | 00 | A A | T T | A C | G G | T T | A A | G G |
| 180 | C C | T T | A G | 00 | A C | 00 | A C | C T | A A | G G | G T | A G | G G |
| 181 | C T | T T | G G | 00 | A A | 00 | A A | C T | A C | A G | T T | A G | G G |
| 182 | T T | C T | G G | 00 | A A | 00 | A A | C T | A C | G G | G G | A G | A G |
| 183 | C C | T T | A A | 00 | A A | 00 | A C | C T | A C | G G | G G | G G | G G |
| 184 | C T | T T | A G | 00 | A C | 00 | A C | C C | A A | G G | G G | A G | G G |
| 185 | C C | 00 | 00 | 00 | A C | 00 | A A | C T | C C | 00 | G G | 00 | G G |
| 186 | C T | C T | A G | 00 | A A | 00 | A A | T T | A C | A A | G G | A G | G G |
| 187 | C T | C T | G G | 00 | A A | 00 | A C | C C | A A | G G | G G | A A | G G |
| 188 | C T | T T | A G | 00 | A C | 00 | A C | C C | A A | G G | G G | A G | A G |
| 189 | C T | T T | A G | 00 | C C | 00 | A C | C T | A C | A G | G G | A G | A G |
| 190 | C T | T T | A G | 00 | C C | 00 | A C | C C | A C | A G | G T | A A | G G |
| 191 | C C | C T | G G | 00 | A C | 00 | A A | T T | A C | G G | G T | A A | G G |
| 192 | C C | T T | G G | 00 | A A | 00 | A A | T T | A C | A G | G G | A A | G G |
| 193 | T T | T T | G G | 00 | A C | 00 | A C | C C | A A | G G | G G | A G | A G |
| 194 | C T | C T | A G | 00 | C C | 00 | C C | C C | A C | A G | G G | G G | G G |
| 195 | C C | C T | G G | 00 | A C | 00 | A C | C T | A A | G G | G T | A A | G G |

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|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| 196 | C C | C T | A G | 00 | A C | 00 | A A | C T | C C | A A | G T | A A | G G |
| 197 | C C | T T | A G | 00 | A C | 00 | A C | C T | A A | G G | G G | G G | 00 |
| 198 | C T | C T | G G | 00 | A C | 00 | A A | C C | C C | A G | G G | A G | G G |
| 199 | C C | T T | G G | 00 | A C | 00 | A A | C T | A C | G G | G T | G G | G G |
| 200 | C C | C C | G G | 00 | C C | 00 | C C | C C | C C | A G | G G | A G | G G |
| 201 | C T | C T | G G | 00 | A C | 00 | A A | T T | A C | A G | G T | A G | G G |
| 202 | 00 | T T | A G | 00 | A C | 00 | A A | C T | C C | A G | G G | A G | G G |
| 203 | C C | T T | G G | 00 | A C | 00 | A C | C C | A C | A A | G G | G G | G G |
| 204 | C C | T T | G G | 00 | A A | 00 | A A | C C | A C | G G | G G | A G | A G |
| 205 | C C | C T | G G | 00 | A C | 00 | A C | C C | A C | A A | G T | 00 | G G |
| 206 | C T | C T | A G | 00 | A A | 00 | A A | T T | C C | A G | G G | A G | A G |
| 207 | C C | C C | G G | 00 | A C | 00 | A A | T T | C C | G G | G T | A G | G G |
| 208 | T T | T T | G G | 00 | C C | 00 | A C | C C | A C | G G | G G | G G | A G |
| 209 | T T | T T | G G | 00 | C C | 00 | A C | C C | A C | G G | G G | G G | A G |
| 210 | C C | T T | A G | 00 | C C | 00 | C C | C C | A C | A G | G G | G G | G G |
| 211 | C C | C T | G G | 00 | A C | 00 | A C | C C | C C | G G | G T | A G | G G |
| 212 | C T | T T | A G | 00 | C C | 00 | A C | C C | A C | G G | G G | A G | G G |
| 213 | C T | T T | A G | 00 | C C | 00 | C C | C C | C C | A G | G G | A G | A G |
| 214 | C T | T T | G G | 00 | A A | 00 | A A | T T | A C | A G | G T | A A | G G |
| 215 | 00 | C T | G G | 00 | C C | 00 | A C | C T | A C | A G | G G | G G | A A |
| 216 | C C | T T | G G | 00 | A C | 00 | C C | C C | A C | A G | G T | A A | G G |
| 217 | C T | C C | G G | 00 | C C | 00 | A C | C T | A C | G G | G G | G G | A A |
| 218 | C T | C T | G G | 00 | C C | 00 | C C | C C | C C | G G | G G | G G | G G |
| 219 | C T | C T | A G | 00 | C C | 00 | C C | C C | A C | A A | G T | A A | G G |
| 220 | C C | C T | A G | 00 | C C | 00 | C C | C C | A C | A G | G G | G G | A G |
| 221 | C C | T T | A A | 00 | C C | 00 | A C | C T | C C | G G | G G | A G | G G |
| 222 | C C | C T | A G | 00 | C C | 00 | C C | C C | A C | A G | G G | G G | G G |
| 223 | T T | T T | G G | 00 | A C | 00 | A A | C T | C C | A G | G G | A G | G G |
| 224 | C T | T T | G G | 00 | A C | 00 | A A | C T | 00 | A G | G G | G G | A G |
| 225 | C T | T T | G G | 00 | A C | 00 | A C | C T | A C | G G | G G | A G | G G |
| 226 | C T | T T | G G | 00 | A C | 00 | A A | T T | A C | A G | G G | G G | A G |
| 227 | C C | C T | G G | 00 | C C | 00 | C C | C C | C C | G G | G G | G G | A G |
| 228 | C C | T T | G G | 00 | A C | 00 | A A | C T | C C | A G | G T | A A | G G |

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| 229 | T T | T T | A A | 00 | A A | 00 | A A | T T | A A | A G | T T | A G | G G |
| 230 | C C | C C | G G | 00 | A C | 00 | 00 | C T | A A | A G | G G | A G | A G |
| 231 | C C | T T | G G | 00 | A A | 00 | A A | C T | C C | A G | G G | G G | G G |
| 232 | C C | T T | G G | 00 | A C | 00 | A C | C C | A A | G G | G G | A G | G G |
| 233 | C C | T T | G G | 00 | A C | 00 | A C | C C | C C | A G | G G | G G | 00 |
| 234 | C T | C T | G G | 00 | A C | 00 | C C | C C | A A | A G | G G | A G | A G |
| 235 | C C | C C | G G | 00 | A C | 00 | A C | C T | A A | G G | G T | A G | G G |
| 236 | C C | C T | G G | 00 | C C | 00 | A A | T T | A A | A G | G G | A G | A G |
| 237 | C T | C T | G G | 00 | 00 | 00 | A C | T T | C C | A G | G G | A G | A G |
| 238 | C T | T T | A G | 00 | C C | 00 | C C | C C | A C | A G | G T | A G | G G |
| 239 | C C | T T | G G | 00 | A C | 00 | A C | C C | A A | A G | G G | A G | G G |
| 240 | C C | C T | G G | 00 | A A | 00 | A C | C C | A C | G G | G G | A G | A G |
| 241 | C C | T T | A G | 00 | A C | 00 | A C | C T | C C | A A | G G | A G | A G |
| 242 | C T | C T | G G | 00 | C C | 00 | C C | C C | A A | A A | G T | A A | G G |
| 243 | C C | C T | G G | 00 | A C | 00 | A C | C T | A C | G G | G G | A G | G G |
| 244 | C C | T T | A G | 00 | A C | 00 | A C | C C | A C | A G | G G | A G | G G |
| 245 | C T | T T | G G | 00 | C C | 00 | A C | C C | C C | G G | G G | G G | A G |
| 246 | C C | T T | G G | 00 | A A | 00 | A A | T T | A C | A A | G G | G G | 00 |
| 247 | C C | C T | G G | 00 | C C | 00 | C C | C C | C C | A A | G G | A G | G G |
| 248 | C T | T T | G G | 00 | A C | 00 | A A | C T | A A | A G | G G | G G | A A |
| 249 | C T | C T | G G | 00 | C C | 00 | C C | C C | A C | A G | G G | G G | A G |
| 250 | C T | T T | A G | 00 | A A | 00 | A A | C T | C C | G G | G G | A G | G G |
| 251 | C C | C T | G G | 00 | A A | 00 | A A | T T | C C | G G | G G | G G | G G |
| 252 | C C | C C | G G | 00 | C C | 00 | A C | C T | A C | A G | G G | A G | A G |
| 253 | C T | T T | A G | 00 | C C | 00 | A C | T T | A A | G G | G G | A G | G G |
| 254 | C T | C T | G G | 00 | C C | 00 | A C | C C | C C | A A | G G | A G | A G |
| 255 | C T | T T | G G | 00 | A C | 00 | A C | C T | C C | A A | G G | G G | G G |
| 256 | C C | T T | G G | 00 | C C | 00 | C C | C C | C C | A A | G G | A G | G G |
| 257 | C C | C T | G G | 00 | C C | 00 | A C | C T | A C | G G | G T | A A | G G |
| 258 | C T | C T | G G | 00 | A A | 00 | A A | T T | A C | A G | G G | A G | A G |
| 259 | C T | T T | A G | 00 | A C | 00 | A C | C C | A C | A G | G G | G G | A G |
| 260 | C T | C T | G G | 00 | A A | 00 | A A | T T | A A | A G | G T | A G | G G |
| 261 | C T | C T | G G | 00 | 00 | 00 | 00 | 00 | 00 | A G | G G | G G | 00 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 262 | T T | T T | A G | 0 0 | C C | 0 0 | A A | C T | A C | G G | G G | A G | A G |
| 263 | C C | C T | G G | 0 0 | C C | 0 0 | A C | C T | C C | A G | G G | A G | G G |
| 264 | C C | C T | A G | 0 0 | A C | 0 0 | A A | T T | C C | A A | G T | A G | G G |
| 265 | C C | T T | G G | C C | A A | 0 0 | A A | T T | A A | G G | G G | G G | A A |
| 266 | C C | C T | G G | C T | A A | 0 0 | A A | T T | A C | A G | T T | A A | G G |
| 267 | C T | T T | G G | C C | C C | 0 0 | C C | C C | C C | G G | G G | G G | A A |
| 268 | C C | T T | A G | C C | C C | 0 0 | C C | C C | A C | A G | G T | A G | A G |
| 269 | C T | C T | G G | C T | A A | 0 0 | A C | C C | C C | G G | G T | A G | G G |
| 270 | C T | C T | G G | C T | A C | 0 0 | A A | C T | A C | G G | G T | A G | G G |
| 271 | T T | C T | G G | C T | A C | 0 0 | A C | C C | C C | A G | G G | G G | A G |
| 272 | C T | T T | A G | C C | A A | 0 0 | A A | C T | A C | G G | G G | A G | A G |
| 273 | C C | T T | A A | C C | A A | 0 0 | A A | T T | A A | A G | G G | G G | A A |
| 274 | C T | T T | A G | C C | C C | 0 0 | A C | C T | C C | G G | G G | A G | G G |
| 275 | C T | C T | G G | C T | C C | 0 0 | C C | C C | A C | A G | T T | A A | G G |
| 276 | C C | T T | G G | C C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | A G | G T | A G | 0 0 |
| 277 | C C | C T | G G | C C | A A | 0 0 | A A | C T | A C | G G | G G | A G | A G |
| 278 | C C | C C | G G | T T | A C | 0 0 | A C | C T | A C | A G | G G | G G | A A |
| 279 | C C | C T | A G | C T | A A | 0 0 | A A | C T | A C | A G | G T | G G | A G |
| 280 | C T | C T | G G | C T | C C | 0 0 | C C | C C | A C | A G | G T | A G | A G |
| 281 | C T | C T | G G | C T | C C | 0 0 | A C | C C | C C | A G | G T | A G | G G |
| 282 | C C | C T | A G | C T | A A | 0 0 | A A | T T | A A | G G | T T | A G | G G |
| 283 | C C | T T | A G | C C | A C | 0 0 | A C | C T | C C | G G | G T | A G | A G |
| 284 | C C | C T | A G | C T | A A | 0 0 | A C | C C | C C | G G | G T | A G | A G |

| GENE | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B | GRIN2B-ATF7IP | GRIN2B-ATF7IP |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|------------|------------|------------|---------------|---------------|
| SNP/Sample | rs4764011 | rs1805539 | rs2300235 | rs2284406 | rs2268115 | rs2216128 | rs220557 | rs220567 | rs10845847 | rs12828473 | rs10772722 | rs7966469 | rs7310659 |
| 1 | A G | G G | A G | 00 | T T | T T | A C | 00 | C C | G G | G T | C C | G G |
| 2 | A A | G G | G G | 00 | T T | T T | A C | 00 | A A | A G | G T | C T | A G |
| 3 | A G | C C | A A | 00 | G T | C T | A C | 00 | A C | A G | T T | C C | G G |
| 4 | A A | G G | G G | 00 | T T | C T | A A | 00 | C C | G G | G G | C T | A G |
| 5 | A G | C G | A A | 00 | T T | T T | A A | 00 | C C | A G | G T | C T | A G |
| 6 | A A | G G | G G | 00 | G G | T T | C C | 00 | A A | A A | G G | C C | A G |
| 7 | A G | C G | A G | 00 | G T | C T | A A | 00 | A A | A G | G T | C C | A G |
| 8 | 00 | 00 | A G | 00 | G G | T T | 00 | 00 | 00 | A G | G T | C C | 00 |
| 9 | A G | G G | A A | 00 | G G | T T | A A | 00 | C C | G G | G T | C C | G G |
| 10 | A G | C G | A G | 00 | G G | C T | A C | 00 | 00 | A G | T T | C T | A G |
| 11 | G G | C C | A A | 00 | T T | T T | A A | 00 | C C | G G | G T | T T | A A |
| 12 | A A | 00 | A A | 00 | G T | C T | C C | 00 | 00 | 00 | 00 | C C | A G |
| 13 | A A | C G | A A | 00 | G T | C C | A C | 00 | C C | A G | G G | C T | G G |
| 14 | A G | G G | G G | 00 | G G | C T | A C | 00 | A C | A G | T T | C C | G G |
| 15 | A G | C G | A G | 00 | G G | T T | A A | 00 | C C | A G | G G | C C | G G |
| 16 | G G | C G | A G | 00 | G T | T T | A C | 00 | A C | A A | G T | C C | A G |
| 17 | G G | C C | A A | 00 | T T | T T | A A | 00 | C C | A G | T T | C C | G G |
| 18 | A G | G G | G G | 00 | G T | T T | A A | 00 | C C | G G | T T | C C | G G |
| 19 | A G | C C | A A | 00 | G G | T T | A C | 00 | A C | A G | G G | C T | A G |
| 20 | A G | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G G | C C | A G |
| 21 | A A | C G | A G | 00 | G T | C T | A C | 00 | A A | A G | G T | C C | G G |
| 22 | A A | C G | A G | 00 | G T | C T | A A | 00 | A C | A A | G T | C T | A G |
| 23 | A A | G G | G G | 00 | T T | T T | A A | 00 | C C | A A | G T | C T | A G |
| 24 | A A | G G | G G | 00 | T T | T T | A A | 00 | A A | A A | G T | C C | A G |
| 25 | A G | G G | A G | 00 | T T | T T | A A | 00 | A C | A A | G T | C T | A A |
| 26 | A A | C G | A G | 00 | T T | C C | A A | 00 | C C | G G | G T | T T | A A |
| 27 | G G | C C | A A | 00 | T T | C T | A A | 00 | C C | G G | G T | C C | G G |
| 28 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G G | C C | G G |
| 29 | A A | G G | A G | 00 | G T | C T | A C | 00 | C C | G G | G G | C T | A A |

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|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 30 | A G | C G | A G | 00 | G T | C T | A C | 00 | A C | A G | G T | T T | A A |
| 31 | A G | G G | A G | 00 | G T | T T | A A | 00 | A A | A G | T T | C C | G G |
| 32 | G G | C C | A A | 00 | G T | C T | A A | 00 | C C | A A | G G | C T | A G |
| 33 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G T | C T | A G |
| 34 | A A | G G | G G | 00 | T T | T T | A A | 00 | C C | A G | G G | C C | G G |
| 35 | G G | C G | A G | 00 | G T | C T | A A | 00 | C C | A G | G T | T T | A A |
| 36 | A G | C G | A G | 00 | T T | T T | A A | 00 | C C | G G | T T | C C | G G |
| 37 | 00 | 00 | G G | 00 | G T | T T | 00 | 00 | 00 | 00 | 00 | C C | G G |
| 38 | A A | G G | A G | 00 | G T | T T | A C | 00 | A A | A A | G G | T T | A A |
| 39 | 00 | 00 | A G | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C C | 00 |
| 40 | G G | C C | A A | 00 | G T | C T | C C | 00 | A A | A G | G T | C T | G G |
| 41 | 00 | 00 | A G | 00 | 00 | T T | 00 | 00 | 00 | 00 | 00 | C C | 00 |
| 42 | A G | C C | A A | 00 | T T | T T | A A | 00 | C C | A A | G T | C T | G G |
| 43 | 00 | 00 | A A | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C C | 00 |
| 44 | G G | G G | G G | 00 | T T | T T | A C | 00 | A A | A A | T T | C C | G G |
| 45 | 00 | 00 | A G | 00 | G T | T T | 00 | 00 | 00 | 00 | 00 | T T | A G |
| 46 | G G | C G | A A | 00 | G G | C T | A A | 00 | C C | G G | T T | C C | G G |
| 47 | A A | G G | A G | 00 | G T | C T | 00 | 00 | 00 | 00 | G G | C C | A G |
| 48 | A G | C G | A G | 00 | T T | T T | A A | 00 | C C | G G | G G | C C | G G |
| 49 | A G | C G | A G | 00 | G T | T T | A A | 00 | 00 | A G | G G | C C | G G |
| 50 | 00 | 00 | A G | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C C | 00 |
| 51 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | T T | C C | G G |
| 52 | 00 | 00 | A A | 00 | 00 | C T | 00 | 00 | 00 | 00 | 00 | C C | 00 |
| 53 | A G | G G | A G | 00 | T T | T T | A C | 00 | C C | A G | G T | C C | G G |
| 54 | 00 | 00 | A A | 00 | G T | C T | 00 | 00 | A A | 00 | G G | C T | A G |
| 55 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | G G | C C | G G |
| 56 | 00 | 00 | A A | 00 | T T | T T | 00 | 00 | 00 | 00 | 00 | C C | G G |
| 57 | A A | G G | G G | 00 | G G | T T | A A | 00 | C C | G G | G T | C C | G G |
| 58 | A G | C G | A G | 00 | T T | T T | A A | 00 | A A | A G | T T | C T | A G |
| 59 | A A | G G | G G | 00 | G T | T T | A A | 00 | C C | G G | T T | C T | A G |
| 60 | G G | C G | A G | 00 | G G | T T | A C | 00 | A A | A A | G G | C C | G G |
| 61 | A A | C G | A A | 00 | G T | T T | A C | 00 | A A | A A | G G | C C | A G |
| 62 | 00 | 00 | A G | 00 | G T | C T | 00 | 00 | 00 | 00 | 00 | C T | A G |

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|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 63 | A A | C G | A G | 00 | T T | T T | A A | 00 | A A | A G | G T | C C | A G |
| 64 | A G | C C | A A | 00 | G T | C T | A A | 00 | A C | A G | G T | C T | A G |
| 65 | A A | G G | G G | 00 | G G | C T | A C | 00 | A C | A G | G G | C T | G G |
| 66 | 00 | 00 | A A | 00 | T T | C T | 00 | 00 | 00 | 00 | 00 | C C | A G |
| 67 | A G | C G | A A | 00 | G G | C T | A C | 00 | A C | G G | G T | C C | A G |
| 68 | A G | G G | A G | 00 | G T | T T | A C | 00 | A A | A G | G G | C T | A G |
| 69 | A A | G G | A G | 00 | G G | T T | A C | 00 | A C | A G | G G | C C | G G |
| 70 | A A | G G | A G | 00 | T T | T T | A A | 00 | 00 | A G | G T | C C | A G |
| 71 | G G | C G | A G | 00 | G T | C T | A C | 00 | A C | A G | G T | C C | G G |
| 72 | A A | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | G G | C C | A G |
| 73 | G G | C G | A G | 00 | G T | T T | A C | 00 | A C | A G | G T | C T | A A |
| 74 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | T T | C C | G G |
| 75 | A A | C G | A G | 00 | T T | T T | A C | 00 | A C | A A | T T | C C | G G |
| 76 | A A | G G | G G | 00 | T T | C T | A A | 00 | C C | G G | G T | C T | A G |
| 77 | A A | G G | A G | 00 | G G | T T | A A | 00 | C C | A G | G T | C T | A G |
| 78 | A G | C C | A A | 00 | G T | C T | A A | 00 | C C | G G | G T | C C | G G |
| 79 | A A | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | G G | T T | A A |
| 80 | A G | C G | A G | 00 | G G | T T | A C | 00 | A C | A A | G T | C C | G G |
| 81 | A G | C G | A A | 00 | G T | T T | A C | 00 | A C | A G | T T | C C | G G |
| 82 | A G | C G | A G | 00 | T T | T T | A A | 00 | 00 | A G | G T | T T | A A |
| 83 | A G | C G | A G | 00 | G T | C T | A C | 00 | A C | A G | G G | C T | A G |
| 84 | G G | C G | A A | 00 | G T | T T | A C | 00 | A C | A A | G T | C T | A A |
| 85 | A A | G G | G G | 00 | G G | T T | A A | 00 | C C | G G | G T | C C | G G |
| 86 | A G | C G | A A | 00 | G T | C T | A C | 00 | A C | A A | G T | C C | G G |
| 87 | A G | G G | A G | 00 | G T | T T | A A | 00 | C C | A G | G T | C C | G G |
| 88 | A A | G G | A G | 00 | T T | C T | A A | 00 | C C | A G | G T | C T | A G |
| 89 | G G | C G | 00 | 00 | G T | 00 | A A | 00 | C C | A A | G G | C T | A A |
| 90 | A A | G G | A G | 00 | G T | C T | A C | C G | A C | A G | G G | T T | A A |
| 91 | A G | C G | A A | 00 | G T | C T | A C | C G | A C | A G | T T | C C | G G |
| 92 | A A | G G | A G | 00 | G T | C T | A C | C G | A A | A G | T T | T T | A A |
| 93 | G G | C C | A A | 00 | T T | T T | A C | G G | A A | A G | G T | C T | A G |
| 94 | A A | C G | A A | 00 | G G | C C | C C | G G | A A | A A | T T | T T | A A |
| 95 | A G | G G | G G | 00 | G T | T T | A C | C G | A C | A A | G G | T T | A A |

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|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 96 | G G | G G | G G | 00 | G G | T T | C C | G G | A A | A A | G T | C C | G G |
| 97 | A G | G G | G G | 00 | T T | T T | A A | C C | C C | A A | T T | C C | G G |
| 98 | G G | C C | A A | 00 | G T | T T | A A | C C | C C | A G | G T | C C | A G |
| 99 | A G | C G | A A | 00 | G G | C T | A C | G G | A C | A A | G T | C T | A G |
| 100 | 00 | 00 | G G | 00 | 00 | T T | 00 | C G | 00 | 00 | 00 | C C | 00 |
| 101 | A G | C G | A G | 00 | G G | C T | A C | C G | A C | A G | G T | C T | A A |
| 102 | G G | C C | A A | 00 | T T | T T | A A | C C | C C | G G | T T | C T | A G |
| 103 | G G | C C | A A | 00 | T T | T T | A A | C G | C C | G G | G G | 00 | A A |
| 104 | A G | C G | A G | 00 | G T | T T | A C | C G | A C | A G | T T | T T | A A |
| 105 | A A | G G | A G | 00 | T T | T T | A A | G G | C C | G G | G T | C T | A G |
| 106 | A A | G G | G G | 00 | G T | T T | A A | C C | C C | G G | G G | C C | G G |
| 107 | A G | G G | G G | 00 | G T | T T | A C | C G | A C | A A | G G | T T | A A |
| 108 | A G | C G | A G | 00 | G G | C C | A C | G G | A C | A A | G G | C C | G G |
| 109 | A A | C G | A G | 00 | G T | T T | A C | C G | A A | A G | G T | C T | A G |
| 110 | A G | C G | A G | 00 | T T | T T | A C | C G | A C | G G | G T | C T | A A |
| 111 | G G | C G | A G | 00 | G T | C T | A C | C G | A C | A G | G G | C C | G G |
| 112 | A G | C G | A G | 00 | T T | T T | A A | C G | C C | G G | G G | C C | G G |
| 113 | A G | G G | G G | 00 | G T | T T | A A | G G | C C | A G | G T | C T | A G |
| 114 | A G | G G | G G | 00 | G G | C T | C C | G G | A A | A A | T T | C T | A G |
| 115 | A G | C G | A G | 00 | G G | C T | A A | C G | A C | A G | T T | C C | G G |
| 116 | A G | C G | A G | 00 | T T | T T | A C | C G | C C | A G | G G | C T | A G |
| 117 | A G | C G | A G | 00 | T T | T T | A A | C G | C C | G G | G G | C C | A G |
| 118 | A G | G G | A G | 00 | T T | T T | A A | C C | C C | G G | G G | C T | A G |
| 119 | A G | C G | A G | 00 | G T | T T | A C | G G | A C | A A | T T | C C | G G |
| 120 | G G | C G | A G | 00 | G T | T T | A C | C G | A A | A G | G T | C T | A A |
| 121 | A A | G G | G G | 00 | G T | T T | A C | C G | A A | A G | G T | C C | A G |
| 122 | A A | G G | G G | 00 | G T | T T | A A | C G | C C | A A | G T | C T | A G |
| 123 | A A | G G | G G | 00 | G T | T T | A C | G G | A A | A A | G T | C T | A A |
| 124 | G G | C G | A G | 00 | G T | T T | C C | G G | A A | A A | G T | C C | G G |
| 125 | 00 | 00 | A A | 00 | G T | T T | 00 | G G | A A | A A | 00 | C C | 00 |
| 126 | G G | C G | A A | 00 | T T | T T | A A | C G | C C | G G | G T | C T | A G |
| 127 | A G | G G | A G | 00 | G T | C T | A C | G G | A A | A A | G T | C T | A G |
| 128 | A G | C G | A G | 00 | G G | C T | A A | C G | A C | A G | G T | C T | A G |

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|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 129 | G G | 00 | A A | 00 | G T | T T | 00 | 00 | C C | A A | T T | T T | 00 |
| 130 | A G | C C | A A | 00 | G T | T T | A A | C C | C C | A G | G G | C C | A G |
| 131 | G G | C C | A A | 00 | T T | T T | 00 | G G | A A | 00 | 00 | C T | 00 |
| 132 | A A | G G | G G | 00 | G T | T T | A A | C G | C C | A G | G G | C C | A G |
| 133 | A G | C G | A A | 00 | T T | 00 | A C | C C | C C | G G | G T | 00 | A G |
| 134 | A A | C G | A A | 00 | G T | T T | A A | C G | C C | A G | G G | C T | A G |
| 135 | 00 | 00 | A G | 00 | G G | C T | 00 | G G | A C | 00 | G G | C C | 00 |
| 136 | A G | G G | A G | 00 | G T | T T | A C | C G | A A | A G | G G | C C | G G |
| 137 | A G | G G | A G | 00 | G G | T T | A A | C G | A A | A G | G T | C C | G G |
| 138 | A A | G G | G G | 00 | T T | T T | A A | C G | C C | A A | G T | C C | G G |
| 139 | A A | C G | A G | 00 | G T | C T | A C | G G | A C | A G | T T | C C | A G |
| 140 | A G | C G | A A | 00 | T T | 00 | A A | C C | C C | G G | G T | C T | A A |
| 141 | A G | C G | G G | 00 | G T | T T | C C | G G | A A | A A | T T | C T | A A |
| 142 | A A | G G | G G | 00 | T T | T T | A A | G G | C C | G G | G T | T T | A A |
| 143 | A G | C C | A A | 00 | T T | T T | A A | C G | C C | G G | T T | C C | G G |
| 144 | A A | G G | G G | 00 | G T | C T | A C | C G | A C | A G | G T | C T | A G |
| 145 | G G | C C | A A | 00 | G G | C T | C C | G G | A A | G G | G T | C C | G G |
| 146 | A G | C G | A A | 00 | G T | T T | A A | C G | C C | A A | G T | C C | A G |
| 147 | A G | G G | G G | 00 | G T | T T | C C | G G | A A | A A | G G | 00 | G G |
| 148 | A G | C C | A A | 00 | G T | C C | A C | G G | A C | A G | G G | C C | G G |
| 149 | A A | G G | A G | 00 | G T | T T | A C | G G | A A | A A | G T | C C | G G |
| 150 | G G | G G | A G | 00 | G T | C T | 00 | C G | 00 | 00 | G G | C T | 00 |
| 151 | A A | G G | A G | 00 | T T | C T | A A | C G | C C | G G | G T | C C | A G |
| 152 | A A | C G | A G | 00 | G T | T T | A C | C G | A A | A G | G T | C T | A G |
| 153 | A A | G G | A A | 00 | G G | T T | A C | G G | A C | A G | G G | C T | A G |
| 154 | A A | G G | A A | 00 | G T | T T | A C | C C | A A | A G | G T | C T | A G |
| 155 | A A | G G | G G | 00 | T T | C T | A A | G G | C C | G G | G T | C C | G G |
| 156 | A G | C G | A A | 00 | G T | T T | A A | C G | C C | G G | G G | C C | A G |
| 157 | A A | G G | G G | 00 | G G | C T | A C | C G | A C | A G | G T | C T | A G |
| 158 | A G | C G | 00 | 00 | T T | C T | 00 | 00 | A C | G G | G T | C C | G G |
| 159 | A A | C G | A G | 00 | T T | T T | A C | C G | A A | A G | G G | C C | G G |
| 160 | 00 | 00 | 00 | 00 | 00 | C T | 00 | C G | 00 | 00 | 00 | C C | 00 |
| 161 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G T | C C | G G |

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|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 162 | G G | C C | A A | 00 | G T | C T | A C | C G | A C | A G | G T | C C | A G |
| 163 | A G | C C | A A | 00 | G T | C T | A C | C G | C C | G G | G T | C T | A G |
| 164 | A A | G G | A G | 00 | G T | C T | A C | C G | A A | A G | G T | C T | A G |
| 165 | A A | G G | A G | 00 | G T | T T | A A | C C | C C | A G | G T | C C | A G |
| 166 | A G | C G | A A | 00 | G T | T T | A C | C G | A A | G G | G G | C T | A A |
| 167 | A A | G G | A G | 00 | T T | T T | A A | C G | C C | G G | G G | C T | G G |
| 168 | A A | G G | A A | 00 | G T | T T | A A | C C | C C | G G | G G | C C | A G |
| 169 | A G | C G | A G | 00 | G T | C T | A C | G G | A C | A G | G G | C C | A G |
| 170 | A G | C G | A G | 00 | G T | C T | A C | C G | A C | G G | G T | C C | A G |
| 171 | G G | C C | A A | 00 | G G | C C | A C | G G | A C | A G | G G | C C | A G |
| 172 | A G | C G | 00 | 00 | G T | 00 | A A | 00 | A C | 00 | G T | C T | 00 |
| 173 | G G | G G | A A | 00 | T T | T T | A A | G G | C C | G G | G T | C T | A G |
| 174 | A A | G G | G G | 00 | T T | T T | A C | G G | C C | A G | G G | C C | G G |
| 175 | A A | G G | G G | 00 | G T | T T | A A | C G | C C | G G | G G | C C | G G |
| 176 | A G | G G | A G | 00 | T T | T T | A A | C G | C C | G G | G G | C C | G G |
| 177 | G G | C G | A A | 00 | G T | C T | A A | 00 | A A | A G | G G | C C | G G |
| 178 | G G | C G | A G | 00 | G T | T T | A A | 00 | 00 | A G | G G | C C | G G |
| 179 | A A | G G | G G | 00 | T T | T T | A C | 00 | 00 | A G | G T | C C | A G |
| 180 | A G | G G | A G | 00 | T T | C T | A A | 00 | C C | A A | G G | C T | G G |
| 181 | A G | C G | A G | 00 | G T | C T | A A | 00 | 00 | G G | G T | C C | A G |
| 182 | A G | C G | A G | 00 | T T | T T | A A | 00 | C C | G G | G G | C C | A G |
| 183 | G G | G G | A A | 00 | G T | T T | A A | 00 | C C | A A | G T | C T | A G |
| 184 | A G | C G | A G | 00 | T T | T T | A A | 00 | C C | G G | T T | C T | A G |
| 185 | A G | C G | A A | 00 | T T | T T | A A | 00 | 00 | G G | T T | 00 | G G |
| 186 | A G | C G | A G | 00 | G T | C T | A C | 00 | A C | A A | G T | C T | A G |
| 187 | A A | C G | A A | 00 | G G | T T | C C | 00 | A A | A G | G G | C T | A G |
| 188 | A G | C G | A A | 00 | G T | T T | A C | 00 | A A | A A | G G | C T | A G |
| 189 | A G | G G | A G | 00 | G G | T T | A C | 00 | A C | A A | G T | C C | G G |
| 190 | A A | G G | G G | 00 | G T | T T | A A | 00 | 00 | G G | T T | C T | A G |
| 191 | A A | G G | G G | 00 | T T | C T | A A | 00 | C C | G G | 00 | C C | A G |
| 192 | A A | G G | A A | 00 | G G | C T | A C | 00 | A C | A G | G T | C T | A G |
| 193 | A G | C G | A G | 00 | G T | C C | C C | 00 | A A | A A | G G | C C | A G |
| 194 | G G | G G | A G | 00 | T T | T T | A C | 00 | A C | A G | G T | C T | A G |

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|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 195 | A A | G G | A G | 00 | T T | T T | A A | 00 | C C | G G | G T | C T | A A |
| 196 | A A | G G | G G | 00 | G G | T T | A C | 00 | A C | A G | G T | T T | A A |
| 197 | G G | C G | A A | 00 | T T | T T | A A | 00 | C C | A A | G T | C T | A G |
| 198 | A G | C G | 00 | 00 | G G | C C | C C | 00 | A A | A A | G T | T T | A A |
| 199 | A G | C C | A A | 00 | G G | C T | A C | 00 | A A | A A | G G | C T | A A |
| 200 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | A G | T T | C C | G G |
| 201 | A G | C G | A G | 00 | G T | C T | A C | 00 | 00 | A G | G T | C T | A G |
| 202 | A G | G G | G G | 00 | G T | T T | A C | 00 | A C | A G | T T | C C | G G |
| 203 | A G | C C | A A | 00 | G T | C T | C C | 00 | A A | A A | T T | C C | G G |
| 204 | A G | C G | A A | 00 | G T | T T | C C | 00 | A A | A A | 00 | C C | A G |
| 205 | A A | C G | A G | 00 | G T | T T | A C | 00 | A C | A G | T T | C C | G G |
| 206 | A G | C G | A G | 00 | G G | T T | A A | 00 | C C | G G | G G | C C | G G |
| 207 | A G | G G | A G | 00 | G T | T T | A A | 00 | C C | G G | T T | C C | A A |
| 208 | G G | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | G T | C C | G G |
| 209 | G G | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | G T | C C | G G |
| 210 | A G | C G | A A | 00 | T T | C T | C C | 00 | A A | A A | G T | C C | G G |
| 211 | A G | C G | A G | 00 | G T | T T | A C | 00 | A A | A G | G T | C C | G G |
| 212 | A G | G G | A A | 00 | G T | T T | A C | 00 | A C | A G | G G | C T | A G |
| 213 | A G | C G | A G | 00 | T T | C T | A C | 00 | A A | A A | G T | C C | A G |
| 214 | A A | C G | A G | 00 | G G | C T | A C | 00 | A C | A A | G T | C C | G G |
| 215 | G G | C C | A A | 00 | G T | C T | A C | 00 | A C | A G | G G | C C | G G |
| 216 | A A | G G | G G | 00 | T T | C T | A A | 00 | A A | A A | T T | C C | G G |
| 217 | G G | C G | A A | 00 | G G | C C | A C | 00 | A C | A G | G G | C T | A G |
| 218 | G G | C G | A G | 00 | G T | T T | C C | 00 | A A | A A | T T | C C | A G |
| 219 | A A | C G | A G | 00 | G T | C T | A C | 00 | A C | A G | G T | C T | A G |
| 220 | G G | C C | A A | 00 | T T | T T | A A | 00 | C C | G G | G T | C T | A G |
| 221 | A G | G G | G G | 00 | G G | T T | A A | 00 | C C | A G | G T | C T | A A |
| 222 | A G | C G | A A | 00 | T T | C T | C C | 00 | A A | A A | G T | C C | G G |
| 223 | A G | C G | A A | 00 | G T | C T | A C | 00 | A C | A G | G T | C T | A G |
| 224 | G G | C G | A G | 00 | G T | 00 | A A | 00 | C C | A G | G T | C T | A G |
| 225 | A G | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G T | C C | G G |
| 226 | G G | C C | A A | 00 | G G | C C | A A | 00 | C C | A A | G G | C C | G G |
| 227 | G G | C C | A A | 00 | G T | C T | A C | 00 | A C | A G | G T | C C | G G |

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|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 228 | A A | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | G T | C C | G G |
| 229 | A G | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | T T | C T | A G |
| 230 | A G | C G | A A | 00 | G T | C T | A C | 00 | A C | A G | G T | C T | A G |
| 231 | G G | G G | A G | 00 | G T | T T | A A | 00 | C C | G G | G T | C C | A G |
| 232 | A G | G G | A A | 00 | G T | C T | C C | 00 | A A | A A | G T | C C | G G |
| 233 | G G | C C | A A | 00 | G G | C T | A C | 00 | A C | A A | G T | C C | A A |
| 234 | A G | C G | A G | 00 | G G | T T | C C | 00 | A A | A A | T T | C C | G G |
| 235 | A G | C G | A G | 00 | G T | C T | A A | 00 | C C | G G | G T | C T | A G |
| 236 | A G | 00 | A G | 00 | G T | T T | A C | 00 | C C | G G | G T | C C | A G |
| 237 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | G T | C C | G G |
| 238 | A G | C G | A G | 00 | T T | T T | A C | 00 | A A | A G | T T | C C | G G |
| 239 | A G | G G | A G | 00 | G T | T T | A C | 00 | A C | A G | G G | C T | A G |
| 240 | A G | C G | A A | 00 | T T | T T | C C | 00 | A A | A A | G G | C T | A G |
| 241 | A G | C G | A G | 00 | G G | C T | C C | 00 | A C | A A | G G | C C | A G |
| 242 | A A | C G | A G | 00 | G T | C T | A A | 00 | C C | G G | G T | C C | A G |
| 243 | A G | C G | A G | 00 | G T | C T | A A | 00 | C C | G G | T T | C T | A G |
| 244 | A A | C G | A G | 00 | G G | T T | A C | 00 | A A | A A | T T | C T | A G |
| 245 | G G | C G | A G | 00 | G G | C T | C C | 00 | A A | A A | G T | C C | G G |
| 246 | G G | C G | A A | 00 | G G | C T | A C | 00 | A A | A G | G T | C C | G G |
| 247 | A G | G G | G G | 00 | G G | C T | A C | 00 | A C | A G | G G | C C | A G |
| 248 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | T T | C C | G G |
| 249 | A G | C G | A A | 00 | T T | C T | C C | 00 | A C | A G | T T | C T | A G |
| 250 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | T T | C C | G G |
| 251 | G G | C G | A G | 00 | G T | T T | A C | 00 | A C | A A | G T | C C | G G |
| 252 | A G | C C | A A | 00 | G T | T T | A A | 00 | C C | G G | G T | C C | G G |
| 253 | A G | G G | G G | 00 | T T | T T | A A | 00 | C C | A G | G G | C T | A A |
| 254 | A G | C G | A G | 00 | T T | T T | A A | 00 | C C | G G | G G | T T | A A |
| 255 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | A G | G T | C C | G G |
| 256 | A G | C C | A A | 00 | G G | C T | A C | 00 | A A | A G | T T | C C | A A |
| 257 | A A | G G | A G | 00 | G T | C T | A C | 00 | A C | A G | G T | C T | A G |
| 258 | A G | C G | A G | 00 | G G | C C | A A | 00 | 00 | G G | G T | C C | G G |
| 259 | G G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | G T | T T | G G |
| 260 | A G | G G | G G | 00 | G T | T T | A A | 00 | C C | G G | G T | C C | G G |

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|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 261 | G G | C C | 00 | 00 | T T | 00 | A A | 00 | C C | G G | G T | C C | A G |
| 262 | A G | C G | A G | 00 | G T | T T | A A | 00 | C C | G G | G G | C T | A G |
| 263 | A G | G G | G G | 00 | G T | C T | A C | 00 | A A | A G | G T | C C | G G |
| 264 | A G | G G | A G | 00 | G T | T T | C C | 00 | A A | A A | G T | C T | A G |
| 265 | G G | C C | A A | 00 | G T | C T | A A | 00 | C C | A G | G G | C T | A A |
| 266 | A A | G G | G G | 00 | G T | T T | A C | 00 | A A | A G | G T | C C | A G |
| 267 | G G | C G | A A | 00 | G T | T T | A A | 00 | C C | A A | T T | C T | G G |
| 268 | A G | G G | A G | 00 | G G | C T | A C | 00 | A C | G G | G T | C C | G G |
| 269 | A G | C G | A A | 00 | G T | T T | A C | 00 | A C | A G | G G | C C | A G |
| 270 | A G | G G | G G | 00 | G T | T T | C C | 00 | A C | A A | G T | C C | A G |
| 271 | G G | G G | A G | 00 | T T | C T | A A | 00 | C C | A G | G T | C C | A G |
| 272 | A G | C G | A A | 00 | G T | T T | A A | 00 | C C | A G | G T | C C | A G |
| 273 | G G | C C | A A | 00 | G T | C T | A A | 00 | C C | G G | G G | C T | G G |
| 274 | A G | C C | A A | 00 | G T | C T | A C | 00 | A C | A G | G T | C C | G G |
| 275 | A A | G G | A G | 00 | G T | C T | A C | 00 | A C | A G | T T | C C | G G |
| 276 | A A | C G | 00 | 00 | T T | 00 | A C | 00 | A A | A G | T T | C C | G G |
| 277 | A G | G G | A A | 00 | G T | T T | A C | 00 | A C | A G | G G | C C | G G |
| 278 | G G | C C | A A | 00 | G T | C T | A C | 00 | C C | A G | G T | T T | A A |
| 279 | G G | C C | A A | 00 | T T | T T | A A | 00 | A A | A A | T T | C C | A G |
| 280 | A G | C G | A G | 00 | G T | T T | A C | 00 | A A | A G | T T | C C | A G |
| 281 | A G | G G | A G | 00 | G G | C T | A C | 00 | A C | A G | T T | C T | A G |
| 282 | A G | C G | A A | 00 | G G | C T | A C | 00 | A C | A G | G T | C C | G G |
| 283 | A G | G G | A G | 00 | T T | C T | A A | 00 | A C | A G | G T | C C | G G |
| 284 | A G | C G | A G | 00 | T T | C T | A C | 00 | A A | A A | G T | C T | A A |

| GENE | GRIN2B-ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | ATF7IP | SP1 | SP1 |
|------------|---------------|------------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|------------|-----------|-----------|
| SNP/Sample | rs10845905 | rs10845923 | rs4341624 | rs4764074 | rs11055896 | rs10845943 | rs10744055 | rs10845987 | rs2231909 | rs3213764 | rs11055989 | rs7131938 | rs3741651 |
| 1 | A A | C C | 0 0 | A G | C C | G G | C C | C T | A T | A G | A A | C T | A G |
| 2 | A G | C C | C C | G G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 3 | A A | C C | C C | A G | C G | G G | A A | C C | A A | G G | G G | C T | A G |
| 4 | A G | C T | C T | A A | G G | G G | A A | C C | A A | G G | G G | C C | A A |
| 5 | A G | C C | C T | A A | G G | C G | A C | C C | A A | G G | A G | C T | G G |
| 6 | A G | C C | C C | A G | C G | G G | A C | C T | A T | A G | A A | C C | A A |
| 7 | A A | C T | T T | A G | C G | G G | A C | T T | A T | A A | A A | T T | A A |
| 8 | A A | T T | T T | G G | C G | C G | C C | C C | A A | G G | G G | C C | A G |
| 9 | A A | C T | C T | G G | C G | G G | A C | C T | A A | A G | A A | C T | A G |
| 10 | A G | C T | C T | A G | C G | G G | A C | C C | A A | G G | A G | C C | A A |
| 11 | G G | C C | C C | A A | G G | C G | A C | C T | A T | A G | A G | C T | A G |
| 12 | A A | C T | C T | A G | C G | G G | A C | C T | A A | A G | A G | 0 0 | A G |
| 13 | A G | C C | C T | A G | G G | C G | A C | T T | T T | A A | A A | C C | A A |
| 14 | G G | C C | T T | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 15 | A G | C C | C T | A G | G G | C G | A C | C C | A A | G G | G G | C C | A A |
| 16 | A G | C T | T T | A G | C G | G G | A C | T T | A T | A A | A A | T T | A G |
| 17 | A G | C C | C T | A A | G G | C C | C C | C T | A T | G G | A G | C C | A A |
| 18 | A G | C T | T T | A G | C G | C G | C C | C C | A A | G G | A A | C C | A A |
| 19 | A G | C C | C C | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 20 | A A | C T | C T | G G | G G | G G | A A | T T | A T | A A | A A | C C | A A |
| 21 | A G | C C | C T | A G | C G | C G | C C | C T | A T | A G | A A | C C | A A |
| 22 | A G | C T | C T | A G | C G | G G | A A | C C | A A | G G | G G | C C | A A |
| 23 | A G | C T | C T | A G | C G | G G | A C | T T | T T | A A | A A | C C | A A |
| 24 | A A | C T | C T | G G | C C | G G | C C | C C | A A | G G | A G | C T | A G |
| 25 | A G | C T | C T | A G | G G | G G | A A | C T | A T | A G | A G | C C | A A |
| 26 | G G | C C | C C | G G | C G | G G | A C | T T | T T | A A | A A | C C | A A |
| 27 | A A | C C | C C | G G | C C | G G | C C | T T | T T | A A | A A | C C | A A |
| 28 | A A | C C | C C | A G | C G | G G | A C | C C | A A | G G | A G | C T | A G |
| 29 | G G | C C | C C | A A | G G | G G | A A | C T | A T | A G | A G | T T | G G |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | G G | C C | C C | G G | C C | G G | C C | T T | T T | A A | A A | C T | A G |
| 31 | A G | C C | C T | A A | G G | C G | A C | C T | A T | A G | A G | C C | A A |
| 32 | G G | C C | C T | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 33 | A G | C C | C C | G G | C C | G G | C C | T T | T T | A A | A A | C T | A A |
| 34 | A A | C T | C T | G G | C G | G G | A C | C C | A A | G G | G G | C C | A A |
| 35 | G G | C C | C C | A A | G G | C C | C C | C T | A T | A G | A A | C C | A A |
| 36 | A A | C T | C T | G G | G G | C G | A C | C T | A A | A G | A G | C C | A G |
| 37 | A A | C T | C T | A A | G G | G G | A A | C C | A A | G G | G G | 00 | A A |
| 38 | G G | C C | C C | A A | G G | C G | A C | C T | A T | A G | A G | C C | A A |
| 39 | 00 | 00 | C C | A G | G G | C G | A C | C T | A T | A G | A G | 00 | 00 |
| 40 | A A | C T | C T | G G | G G | C G | A C | C C | A A | G G | A G | T T | A G |
| 41 | 00 | 00 | C T | A G | G G | C G | A C | C T | A T | A G | A A | 00 | 00 |
| 42 | A G | C C | C T | G G | G G | G G | A A | T T | T T | A A | A A | C C | A A |
| 43 | 00 | 00 | C C | A G | G G | G G | A A | C C | A A | G G | G G | 00 | 00 |
| 44 | A A | C C | C C | G G | C G | G G | A C | T T | T T | A A | A A | C C | A G |
| 45 | A G | C C | C C | A G | C C | G G | A C | C T | A T | A G | A A | T T | G G |
| 46 | A G | C C | C T | G G | G G | C G | A C | T T | A A | A A | A A | C T | A G |
| 47 | A A | C T | C T | A G | C G | C G | C C | C T | A T | A G | A G | 00 | A A |
| 48 | A G | C C | C T | A A | G G | C G | 00 | C T | A T | A G | A G | C C | A A |
| 49 | A A | C C | C C | G G | C G | C C | C C | C T | A T | A G | A A | C T | A G |
| 50 | 00 | 00 | C T | A G | G G | C C | C C | T T | A T | A A | A A | 00 | 00 |
| 51 | A A | C C | C C | G G | G G | C G | A C | C T | A A | A G | A G | C C | A A |
| 52 | 00 | 00 | C T | G G | C G | G G | C C | C T | A A | A G | A A | 00 | 00 |
| 53 | A G | C T | T T | A G | G G | G G | A A | T T | A T | A A | A A | C C | A A |
| 54 | A G | C T | C T | G G | C G | G G | A C | T T | T T | A G | A G | 00 | A A |
| 55 | A A | C C | C C | G G | C G | C G | A C | C C | A A | G G | A G | C C | A A |
| 56 | A A | C T | C T | A G | G G | C G | A A | C T | A T | A G | A G | 00 | A A |
| 57 | A G | C C | C T | A G | G G | C G | A C | T T | A T | A A | A A | C T | A G |
| 58 | G G | C C | C T | A G | C G | G G | A C | C T | A T | A G | A G | C T | A A |
| 59 | A G | C C | C C | A G | G G | G G | A A | C T | A A | A G | A G | C C | A A |
| 60 | A A | C C | C C | G G | C G | C G | C C | T T | A T | A A | A A | C C | A A |
| 61 | A G | C C | C C | A G | G G | G G | A A | C T | A T | A G | A G | T T | G G |
| 62 | A G | C C | C C | A G | G G | G G | A A | T T | T T | A A | A A | 00 | A A |

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 63 | A A | C T | C T | G G | C C | G G | A C | C T | A T | A G | A A | C T | A G |
| 64 | A G | C C | C C | G G | C C | G G | 00 | C C | 00 | A G | 00 | C T | A G |
| 65 | A A | C C | C C | G G | G G | G G | A A | T T | T T | A A | A A | C T | A G |
| 66 | A A | T T | 00 | G G | G G | G G | 00 | C C | 00 | A A | 00 | 00 | A A |
| 67 | A G | C C | C C | A A | G G | G G | A A | C C | A A | G G | G G | C C | A G |
| 68 | G G | C C | C T | A G | G G | G G | A A | C T | A T | A G | A G | C T | A G |
| 69 | A A | C T | C T | G G | C C | G G | C C | C T | A T | A G | A A | T T | G G |
| 70 | A G | C T | C T | 00 | G G | G G | A A | C T | A A | A G | A G | C C | A A |
| 71 | A A | C T | C T | G G | C G | G G | A A | C T | A T | A G | A A | C C | A A |
| 72 | A G | C T | C T | A G | C G | C G | C C | T T | T T | A A | A A | C T | A G |
| 73 | A G | C T | C T | A G | C G | G G | A C | T T | T T | A G | A G | C T | A G |
| 74 | A A | C T | C T | A G | G G | G G | A A | C C | A A | G G | G G | C C | A A |
| 75 | A A | C T | C T | G G | C C | G G | C C | C T | A T | A A | A A | C C | A A |
| 76 | G G | C C | C T | G G | C G | G G | A C | T T | A T | A G | A A | C T | A G |
| 77 | A G | C C | C C | A G | G G | C G | A C | C T | A A | A G | A G | C T | A A |
| 78 | A A | C C | C C | A G | C G | G G | A C | C T | A A | A G | A G | C C | A A |
| 79 | G G | C C | C C | A G | G G | C G | A C | T T | A T | A A | A A | C T | A G |
| 80 | A A | C T | C T | A G | G G | G G | A A | C T | A A | A G | A G | T T | G G |
| 81 | A A | C C | C C | A G | G G | C G | A C | T T | A T | A A | A A | C T | A G |
| 82 | G G | C C | C C | A A | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 83 | A G | C C | C C | G G | C G | G G | A C | T T | A T | A G | A G | C C | A A |
| 84 | A G | C T | C T | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 85 | A G | C T | T T | A G | G G | G G | A A | T T | A A | A A | A A | C T | A A |
| 86 | A A | C T | C T | G G | C G | G G | A A | T T | A T | A A | A A | C T | A G |
| 87 | A A | C C | C C | A G | C G | C G | C C | C C | A A | G G | A A | C C | A A |
| 88 | G G | C C | C T | A A | C G | C G | C C | C T | A T | A G | A A | C T | A G |
| 89 | A G | C T | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | C T | A G |
| 90 | G G | C C | T T | G G | C C | G G | A A | C T | A A | A G | A A | C C | A A |
| 91 | A A | T T | T T | G G | C G | G G | A C | C C | A A | G G | A G | C T | A G |
| 92 | G G | C C | C C | A G | G G | G G | A A | C C | A A | A G | A G | C C | A A |
| 93 | A G | C T | C T | G G | C G | C G | C C | T T | T T | A A | A A | C C | A A |
| 94 | G G | C C | C T | G G | C C | G G | A C | C T | A T | A G | A G | C T | A A |
| 95 | G G | C C | C C | A A | G G | G G | A A | C C | A A | G G | G G | C C | A A |

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| 96 | A A | C T | C T | G G | C G | G G | A C | T T | T T | A A | A A | C T | A G |
| 97 | A A | C T | C T | G G | C C | G G | C C | C T | A T | A G | A A | C T | A A |
| 98 | A A | C C | C C | G G | C C | G G | C C | C T | A T | A G | A G | C C | A A |
| 99 | G G | C C | C T | A G | G G | G G | A A | C T | A T | A G | A G | C C | A A |
| 100 | 0 0 | 0 0 | T T | A G | C G | G G | A C | T T | T T | A A | A A | 0 0 | 0 0 |
| 101 | A G | C T | C T | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 102 | A G | C T | C T | A A | G G | G G | A A | C T | A A | A G | A G | C T | A A |
| 103 | G G | C C | C C | A A | G G | C G | A C | C C | A A | G G | A G | C T | A G |
| 104 | G G | C C | C C | A G | G G | C C | C C | C C | A A | G G | A G | C T | A G |
| 105 | A G | C C | C C | A G | G G | C G | A C | C T | A T | A G | A A | C C | A A |
| 106 | G G | C C | T T | G G | G G | G G | A A | T T | T T | A A | A A | C C | A A |
| 107 | G G | C C | C C | A A | G G | G G | 0 0 | C C | A A | G G | G G | C C | A A |
| 108 | A A | T T | T T | A A | G G | G G | A A | T T | T T | A A | A A | C C | A A |
| 109 | G G | C C | C C | A A | G G | C C | C C | C T | A T | A G | A A | C T | A G |
| 110 | G G | C C | C C | A G | G G | C G | A C | C T | A A | A G | A A | C C | A A |
| 111 | A G | C C | C T | A G | G G | C G | A C | T T | A T | A A | A A | C C | A A |
| 112 | A A | C T | C T | G G | G G | G G | A A | C T | A A | A G | A G | C C | A G |
| 113 | A G | C T | C T | G G | C C | G G | C C | C T | A T | G G | A G | C C | A G |
| 114 | A G | C C | C T | A G | C C | G G | C C | C T | A T | A G | A A | C T | A A |
| 115 | A G | C C | C T | G G | G G | C G | A C | C T | A A | A G | A G | C C | A A |
| 116 | A G | C C | C C | A G | G G | C G | A C | T T | A T | A A | A A | C T | A A |
| 117 | A G | C T | T T | G G | C G | G G | A C | T T | A T | A A | A A | C C | A A |
| 118 | G G | C C | C T | G G | C C | G G | A C | C C | A A | G G | G G | C C | A A |
| 119 | A A | C T | C T | A G | G G | C G | C C | C T | A T | A G | A A | C C | A A |
| 120 | A G | C T | C T | A G | C G | G G | A C | T T | A T | A A | A A | C T | A A |
| 121 | A G | C T | T T | G G | C G | C G | C C | C T | A A | A G | A G | C C | A A |
| 122 | G G | C C | C T | G G | C G | G G | A C | T T | T T | A A | A A | C C | A A |
| 123 | A G | C T | C T | A A | G G | C C | C C | C T | A T | A G | A A | C T | A G |
| 124 | A A | C T | C T | G G | C G | G G | A C | T T | T T | A G | A A | C C | A A |
| 125 | A A | T T | T T | A G | G G | G G | A A | C C | A A | G G | G G | C T | A G |
| 126 | A G | C C | C C | A G | G G | G G | A A | C C | A A | G G | G G | T T | A G |
| 127 | A G | C C | C C | A A | G G | G G | A A | C T | A T | A G | A G | C C | A A |
| 128 | A G | C C | C C | A G | C G | C C | C C | T T | T T | A A | A A | C T | A A |

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| 129 | G G | C C | C C | A G | 00 | G G | 00 | 00 | 00 | G G | 00 | C T | A G |
| 130 | A A | T T | T T | G G | C G | G G | A C | T T | A A | A A | A A | C T | A G |
| 131 | A G | C C | C C | A G | G G | G G | A A | C C | A A | G G | G G | C T | A A |
| 132 | G G | C C | C C | A G | C G | G G | A C | C T | A T | A G | A G | T T | A G |
| 133 | A G | C C | C C | A G | 00 | G G | 00 | 00 | 00 | A G | 00 | C C | A G |
| 134 | G G | C C | C T | G G | C G | G G | A C | C T | A T | A G | A A | C C | A A |
| 135 | A G | C C | C C | A A | G G | G G | A A | C T | A T | A G | A G | C T | A A |
| 136 | A A | C C | C C | G G | C C | G G | A C | C T | A T | A G | A G | C T | A G |
| 137 | A A | C T | C T | G G | C G | G G | A C | T T | A T | A G | A G | C C | A A |
| 138 | A G | C C | C T | G G | C G | G G | A C | T T | A T | A G | A A | C C | A A |
| 139 | A A | C T | C T | A G | C G | G G | A C | C T | A A | A G | A G | C T | A A |
| 140 | G G | C C | C C | A A | G G | C G | A C | T T | T T | A A | A A | C T | A G |
| 141 | G G | C C | C C | A G | C G | C G | C C | C T | A T | A G | A A | C C | A G |
| 142 | A G | C T | C T | G G | C C | G G | C C | C T | A T | G G | A A | C C | A A |
| 143 | A A | C T | C T | G G | C G | C G | C C | C C | A A | G G | A A | C T | A A |
| 144 | A G | C C | C C | A G | G G | C G | A C | C T | A A | A G | A G | C C | A A |
| 145 | A A | C T | C T | G G | G G | G G | A A | C T | A T | A G | A A | C T | A A |
| 146 | A G | C T | T T | G G | C G | G G | A C | T T | A T | A A | A A | C C | A A |
| 147 | A A | C C | C C | A G | C G | G G | A A | C C | A A | G G | A G | C C | A A |
| 148 | A A | C T | C T | G G | C G | C G | C C | T T | A T | A A | A A | C C | A A |
| 149 | A A | C T | C T | G G | C G | C G | A C | C T | A T | A G | A G | C T | A A |
| 150 | G G | C C | C T | A A | C G | C G | A C | C C | A A | G G | A G | C C | A A |
| 151 | G G | C C | C T | A G | C G | G G | A A | C T | A T | A G | A G | C C | A A |
| 152 | A G | C C | C C | G G | C G | C G | A C | C T | A A | A G | A G | C T | A G |
| 153 | A G | C T | C T | A G | G G | G G | A A | C C | A A | G G | G G | T T | A G |
| 154 | A G | C C | C C | A G | 00 | G G | 00 | 00 | 00 | G G | 00 | C C | A A |
| 155 | A A | C C | C C | G G | C G | G G | A C | T T | A T | A A | A A | C T | A A |
| 156 | A G | C T | T T | G G | G G | G G | A A | T T | T T | A A | A A | C T | A A |
| 157 | A G | C C | C C | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 158 | A A | C T | C T | G G | C C | G G | C C | 00 | 00 | A G | 00 | C T | A G |
| 159 | A A | C C | C C | A G | C G | G G | A A | C C | A A | G G | G G | C T | A G |
| 160 | 00 | 00 | C T | A G | 00 | G G | 00 | 00 | 00 | A G | 00 | 00 | 00 |
| 161 | A A | C T | C T | G G | C G | C G | A C | T T | A T | A A | A A | C C | A A |

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| 162 | A G | C C | C C | A G | C G | G G | A A | C C | A A | G G | G G | C C | A A |
| 163 | A G | C C | C T | A G | G G | C C | C C | C T | A T | A G | A A | C C | A A |
| 164 | A G | C T | C T | A G | C G | G G | A C | C T | A T | A G | A A | C C | A A |
| 165 | A A | T T | T T | G G | C G | G G | A C | T T | A T | A G | A A | C C | A A |
| 166 | A G | C T | C T | G G | C C | G G | C C | T T | A T | A A | A A | C C | A A |
| 167 | A G | C C | C T | A G | G G | G G | A A | T T | T T | A A | A A | C C | A A |
| 168 | G G | C C | C T | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 169 | A A | C T | C T | A G | C C | G G | A C | C T | A T | A G | A G | C T | A A |
| 170 | A G | C C | C C | A A | G G | C G | A C | C T | A T | A G | A G | C C | A A |
| 171 | A A | C T | C T | A G | C G | G G | A C | C C | A A | G G | A A | C C | A A |
| 172 | A G | C C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | C T | A G |
| 173 | A G | C T | C T | A G | G G | G G | A A | C T | A A | A G | A G | C C | A A |
| 174 | A G | C T | T T | A G | C G | C G | C C | C T | A T | A G | A G | C C | A A |
| 175 | A G | C T | T T | G G | C C | G G | C C | T T | T T | A A | A A | C T | A G |
| 176 | A A | C T | C T | A G | C G | G G | A A | C T | A T | A G | A A | C C | A A |
| 177 | A A | T T | T T | A A | G G | G G | 0 0 | 0 0 | A A | G G | G G | C T | A G |
| 178 | A A | C T | C T | G G | C G | C G | 0 0 | 0 0 | A A | A G | A G | C C | A A |
| 179 | A G | C T | C T | A G | C G | G G | 0 0 | 0 0 | A T | G G | A G | C C | A A |
| 180 | A A | C C | C C | A G | C G | C G | 0 0 | 0 0 | T T | A A | A A | C C | A A |
| 181 | A A | C T | C T | A G | G G | G G | 0 0 | 0 0 | A A | G G | G G | C C | A A |
| 182 | A G | C T | T T | G G | C G | G G | 0 0 | 0 0 | T T | A A | A A | C T | A A |
| 183 | A G | C T | C T | A G | C G | G G | 0 0 | 0 0 | A A | G G | G G | C C | A A |
| 184 | A G | C C | C C | A G | G G | C G | 0 0 | 0 0 | A A | A G | A G | C T | A G |
| 185 | A G | C C | C T | G G | C G | G G | 0 0 | 0 0 | A T | G G | A A | C T | A G |
| 186 | A A | C T | C T | A G | C G | G G | 0 0 | 0 0 | A A | A G | A G | C C | A A |
| 187 | A G | C T | C T | A G | G G | G G | 0 0 | 0 0 | A T | A G | A G | C C | A A |
| 188 | A G | C C | C C | A G | C G | G G | 0 0 | 0 0 | A A | G G | A G | C C | A A |
| 189 | A A | C C | C C | G G | C G | G G | 0 0 | 0 0 | A T | A G | A G | C C | A G |
| 190 | A G | C C | C C | A G | G G | G G | 0 0 | 0 0 | A A | G G | G G | C T | A A |
| 191 | A G | C T | C T | A G | C G | G G | 0 0 | 0 0 | A A | G G | A G | C C | A A |
| 192 | G G | C C | C T | A A | G G | C G | 0 0 | 0 0 | A T | A G | A G | T T | A G |
| 193 | A G | C T | C T | A G | G G | G G | 0 0 | 0 0 | T T | A A | A A | C C | A G |
| 194 | A G | C C | C C | A A | G G | G G | 0 0 | 0 0 | A A | G G | G G | C C | A A |

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| 195 | G G | C C | C C | A G | C G | G G | 00 | 00 | A A | G G | A G | C C | A A |
| 196 | G G | C C | C C | G G | C G | G G | 00 | 00 | A A | G G | G G | C T | A G |
| 197 | A G | C C | C C | G G | C C | G G | 00 | 00 | A T | G G | A G | C T | A A |
| 198 | G G | C C | C C | A A | G G | G G | 00 | 00 | A A | G G | G G | C C | A A |
| 199 | G G | C C | C C | A A | C G | G G | 00 | 00 | A A | G G | A G | C T | A G |
| 200 | A A | C C | C C | G G | C C | G G | 00 | 00 | A T | A G | A A | C T | A G |
| 201 | A G | C C | C C | G G | G G | C G | 00 | 00 | A T | A A | A A | C T | A G |
| 202 | A A | T T | T T | A A | G G | G G | 00 | 00 | A T | A G | A G | C C | A A |
| 203 | A A | C C | C C | G G | C G | C G | 00 | 00 | A T | A A | A A | C T | A A |
| 204 | A A | C T | C T | A G | G G | C G | 00 | 00 | A A | G G | A G | C C | A A |
| 205 | A G | C T | T T | G G | G G | C G | 00 | 00 | T T | A A | A A | C T | A G |
| 206 | A A | C C | C C | G G | G G | C C | 00 | 00 | A A | A G | A A | C C | A A |
| 207 | G G | C C | C C | A G | C G | C G | 00 | 00 | A T | A G | A A | C C | A A |
| 208 | A G | C C | C C | G G | C C | G G | 00 | 00 | A T | A G | A G | C T | A A |
| 209 | A G | C C | C C | G G | C C | G G | 00 | 00 | A T | A G | A G | C T | A A |
| 210 | A A | C C | C C | G G | C G | C G | 00 | 00 | A T | A G | A A | C T | A G |
| 211 | G G | C C | T T | A A | G G | C G | 00 | 00 | A T | A G | A G | C C | A A |
| 212 | A A | C T | C T | A G | G G | C C | 00 | 00 | A T | A G | A A | C C | A A |
| 213 | A G | C T | T T | G G | G G | C G | 00 | 00 | A T | A G | A A | C C | A A |
| 214 | A A | C T | C T | A G | G G | G G | 00 | 00 | A T | A G | A G | C T | A G |
| 215 | A A | C C | C C | A A | G G | C C | 00 | 00 | A T | A G | A A | C C | A A |
| 216 | A G | C C | C T | A G | G G | G G | 00 | 00 | A A | G G | G G | C C | A A |
| 217 | A G | C T | C T | A A | G G | C G | 00 | 00 | T T | A A | A A | C C | A A |
| 218 | A A | C T | C T | A G | C G | G G | 00 | 00 | A A | A G | A G | C C | A A |
| 219 | A G | C C | C C | A G | C G | G G | 00 | 00 | A A | G G | G G | C C | A A |
| 220 | A G | C C | C C | A G | G G | G G | 00 | 00 | A A | A G | A G | C C | A A |
| 221 | A G | C T | C T | A G | C G | C G | 00 | 00 | A A | G G | A G | C T | A G |
| 222 | A A | C C | C C | G G | C G | C G | 00 | 00 | A T | A G | A A | T T | A G |
| 223 | G G | C C | C T | A A | G G | C C | 00 | 00 | T T | A A | A A | C C | A A |
| 224 | A G | C T | C T | A G | C G | C G | 00 | 00 | A T | 00 | 00 | C C | A G |
| 225 | A A | 00 | T T | G G | C G | G G | 00 | 00 | T T | A A | A A | C C | A A |
| 226 | A A | T T | T T | G G | C G | G G | 00 | 00 | A T | A A | A A | C T | G G |
| 227 | A A | C T | C T | G G | C G | C G | 00 | 00 | T T | A G | A G | C C | A A |

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|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|
| 228 | A G | C C | C T | A G | C G | G G | 00 | 00 | A A | G G | A G | C C | A A |
| 229 | A G | C C | C C | A G | C C | G G | 00 | 00 | A T | A G | A G | C C | A A |
| 230 | G G | C C | C T | A G | C G | C G | 00 | 00 | T T | A A | A A | C C | A A |
| 231 | A G | C C | C C | A G | G G | C G | 00 | 00 | A A | A G | A G | C T | A A |
| 232 | A A | C C | C C | G G | G G | C C | 00 | 00 | A T | A A | A A | C C | A G |
| 233 | A A | T T | T T | G G | C G | G G | 00 | 00 | A A | A G | A G | C C | A A |
| 234 | A A | C T | C T | G G | C C | G G | 00 | 00 | T T | A A | A A | C C | A A |
| 235 | G G | C C | C T | A G | C G | C G | 00 | 00 | T T | A A | A A | C C | A A |
| 236 | A G | C T | C T | A G | C G | G G | 00 | 00 | T T | A A | A A | C C | A A |
| 237 | A A | C T | C T | G G | C C | G G | 00 | 00 | A T | A G | A A | C C | A A |
| 238 | A A | C C | C C | G G | C G | G G | 00 | 00 | T T | A A | A A | C C | A A |
| 239 | G G | C C | C T | A G | C G | G G | 00 | 00 | A T | A G | A G | C T | A G |
| 240 | A G | C C | C C | A G | C G | G G | 00 | 00 | A A | A G | A G | C C | A A |
| 241 | A G | C T | C T | A G | C G | G G | 00 | 00 | A T | A G | A G | C C | A A |
| 242 | A A | C C | C C | G G | C G | C G | 00 | 00 | A A | A A | A A | C T | A G |
| 243 | A G | C C | C C | G G | G G | G G | 00 | 00 | A A | G G | G G | C C | A A |
| 244 | A G | C T | C T | A G | C G | G G | 00 | 00 | A A | G G | A G | C T | A A |
| 245 | A G | C T | T T | G G | C G | C G | 00 | 00 | T T | A A | A A | C C | A A |
| 246 | A G | C C | C T | A G | G G | C G | 00 | 00 | A T | A G | A A | C T | A G |
| 247 | A G | C C | C C | A G | G G | C G | 00 | 00 | T T | A A | A A | C C | A A |
| 248 | A A | C T | C T | A G | C G | G G | 00 | 00 | A T | A G | A A | C C | A A |
| 249 | A G | C C | C C | G G | C G | G G | 00 | 00 | T T | A A | A A | C T | A G |
| 250 | A A | C T | C T | G G | C G | G G | 00 | 00 | A T | A G | A G | C T | A G |
| 251 | A A | C C | C C | A G | C G | G G | 00 | 00 | A T | A G | A A | C C | A A |
| 252 | A A | C C | C C | G G | C G | C G | 00 | 00 | T T | A A | A A | C T | A G |
| 253 | A G | C T | C T | A G | C C | G G | 00 | 00 | A T | A A | A A | C C | A A |
| 254 | G G | C C | C C | G G | C G | C G | 00 | 00 | A T | G G | A G | C C | A A |
| 255 | A A | T T | T T | G G | C G | G G | 00 | 00 | A T | A G | A A | C C | A A |
| 256 | A G | C T | C T | A A | G G | G G | 00 | 00 | A A | A G | A G | C C | A A |
| 257 | A G | C T | C T | G G | C G | G G | 00 | 00 | T T | A G | A A | T T | A G |
| 258 | A G | C C | C T | A G | G G | C C | 00 | 00 | A T | A G | A A | C T | A G |
| 259 | A A | C C | C C | A G | C G | C G | 00 | 00 | T T | A A | A A | T T | G G |
| 260 | A G | C T | T T | G G | C C | G G | 00 | 00 | A T | A G | A A | C T | A A |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 261 | A A | T T | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | C C | A A |
| 262 | A G | C C | C C | G G | C G | G G | 0 0 | 0 0 | A T | A G | A G | C C | A A |
| 263 | A A | C C | C C | A G | C G | G G | 0 0 | 0 0 | A T | A G | A G | C C | A A |
| 264 | A G | C C | C C | A G | G G | G G | 0 0 | 0 0 | A A | A G | A G | C T | A G |
| 265 | A G | C T | C T | A G | G G | G G | 0 0 | C C | A A | G G | A G | C C | A A |
| 266 | A G | C C | C C | A A | G G | G G | 0 0 | C T | A T | A G | A G | C C | A A |
| 267 | A A | C T | C T | G G | C C | G G | C C | C T | A T | G G | A G | C C | A A |
| 268 | A A | C T | C T | G G | C C | G G | C C | C T | A T | A G | A A | C C | A G |
| 269 | A G | C C | C C | A G | C G | C G | A C | C T | A T | A G | A G | C C | A A |
| 270 | A A | C T | C T | G G | C G | G G | A C | T T | A A | A A | A A | C C | A A |
| 271 | A A | C T | C T | G G | G G | C G | A C | T T | A A | A A | A A | C C | A A |
| 272 | A G | C T | C T | A G | C G | G G | A C | C T | A T | G G | A G | C C | A A |
| 273 | A A | C T | C T | A A | G G | C G | A C | T T | T T | A A | A A | C C | A A |
| 274 | A A | C C | C C | A G | G G | C C | C C | T T | A A | A A | A A | C C | A A |
| 275 | A A | C C | C C | A A | G G | G G | 0 0 | C C | A A | G G | G G | C T | A A |
| 276 | A A | C C | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | C T | A G |
| 277 | A A | C T | C T | A G | C G | G G | A C | C C | A A | G G | A G | C C | A A |
| 278 | G G | C C | C C | A G | G G | G G | 0 0 | C T | A T | A G | A G | C C | A A |
| 279 | A A | C T | C T | G G | C C | G G | C C | C T | A T | A G | A G | T T | G G |
| 280 | A A | T T | T T | G G | C C | G G | A C | C T | A T | A G | A G | C C | A A |
| 281 | A G | C C | C C | A G | C G | G G | A C | C T | A T | A G | A G | C C | A A |
| 282 | A A | C T | T T | G G | G G | C G | A C | C C | A A | G G | A G | C C | A A |
| 283 | G G | C C | T T | A A | G G | C G | A C | C T | A T | A G | A G | C T | A A |
| 284 | A G | C T | C T | A G | C G | G G | A A | C C | A A | G G | A G | C C | A A |

| GENE | SP1 | SP1 | GRIN2A | GRIN2A | GRIN2A | GRIN2A | GRIN2A | HAP1 | HAP1 | HAP1 | HAP1 | E2F1 | E2F1 |
|------------|-----------|------------|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|-----------|-----------|-----------|
| SNP/Sample | rs2694847 | rs10876450 | rs8049651 | rs1969060 | rs8049174 | rs8044807 | rs11646268 | rs7213337 | rs11867808 | rs35612698 | rs4796693 | rs3213183 | rs3213142 |
| 1 | A G | C T | C T | T T | C T | C G | C T | 00 | A A | A A | A A | C T | C C |
| 2 | A A | T T | C C | T T | C T | G G | C T | 00 | A A | A A | A A | C C | C C |
| 3 | A G | C T | C T | C T | T T | G G | C C | 00 | A G | A C | A A | C C | C C |
| 4 | A A | T T | C C | T T | C T | C G | C C | 00 | G G | C C | G G | C C | C C |
| 5 | G G | C C | C C | C T | C T | C G | C C | 00 | A G | A C | A A | C T | C C |
| 6 | A A | T T | C C | T T | T T | C G | C C | 00 | G G | C C | A G | C C | C C |
| 7 | A A | T T | C T | T T | C T | C C | C C | 00 | A G | C C | A G | C C | C C |
| 8 | A A | T T | C C | T T | C C | C G | C T | 00 | A A | A A | A A | C C | C C |
| 9 | A G | C T | C T | T T | T T | C G | C T | 00 | A G | A A | A A | C T | C C |
| 10 | A A | T T | C C | T T | C C | G G | C C | 00 | A G | A C | A A | C C | C C |
| 11 | A G | C T | C T | T T | T T | G G | C T | 00 | G G | C C | A A | C T | C C |
| 12 | A G | C T | C T | C T | T T | C G | C T | 00 | A G | A C | A A | C T | C C |
| 13 | A A | T T | C C | T T | C C | G G | C T | 00 | G G | C C | A G | C T | C C |
| 14 | A A | T T | C T | T T | T T | G G | C T | 00 | G G | C C | A A | T T | C C |
| 15 | A A | T T | C C | T T | C T | G G | C C | 00 | G G | C C | A A | C T | C C |
| 16 | A G | C T | T T | C T | C C | G G | C T | 00 | A G | A C | A A | C C | C C |
| 17 | A A | T T | C T | T T | C T | C G | C C | 00 | G G | C C | A A | C T | C C |
| 18 | A A | T T | C C | T T | C T | G G | C T | 00 | G G | C C | G G | C C | C C |
| 19 | 00 | T T | C C | C T | C T | G G | C C | 00 | G G | C C | A G | C T | C C |
| 20 | 00 | T T | C C | C T | C T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 21 | A A | T T | C C | T T | C T | C G | C C | 00 | G G | C C | A A | C C | C C |
| 22 | A A | T T | C C | T T | C T | G G | C C | 00 | A A | A A | A A | C C | C C |
| 23 | A A | T T | C T | T T | T T | G G | C T | 00 | A G | A C | A G | C C | C C |
| 24 | A G | C T | C T | T T | C T | C G | C C | 00 | A G | C C | A A | C T | C C |
| 25 | A A | T T | C T | T T | C T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 26 | A A | T T | C T | T T | C T | C G | C C | 00 | A G | A C | A G | C T | C C |
| 27 | A A | T T | C T | C T | T T | C G | C C | 00 | A G | A C | A A | C C | C C |
| 28 | A G | C T | C T | C T | C C | C G | C T | 00 | A G | A C | A G | C C | C C |
| 29 | G G | C C | C T | T T | T T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 30 | A G | C T | C T | T T | C T | G G | T T | 00 | G G | C C | A G | C T | C C |

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 31 | 00 | TT | TT | TT | TT | CG | CT | 00 | AG | AC | 00 | CT | CC |
| 32 | 00 | TT | CT | TT | CC | GG | CC | 00 | AG | AC | AA | TT | CC |
| 33 | AA | TT | CC | CT | CC | GG | CT | 00 | GG | CC | AG | CC | CC |
| 34 | AA | TT | CT | TT | CT | GG | CC | 00 | GG | CC | AG | CT | CC |
| 35 | AA | TT | CT | CT | TT | GG | CC | 00 | AA | AA | AA | CT | CC |
| 36 | AG | CT | CT | TT | CT | CG | CC | 00 | GG | CC | AG | CT | CC |
| 37 | AG | TT | CT | CT | TT | GG | CT | 00 | GG | CC | AG | CT | CC |
| 38 | AA | TT | CC | CC | TT | CG | CT | 00 | AG | AC | AG | CT | CC |
| 39 | 00 | 00 | TT | TT | CT | CG | CT | 00 | AG | AC | AA | CT | CC |
| 40 | AG | CT | CC | TT | CT | GG | CT | CC | AA | AA | AA | TT | CC |
| 41 | 00 | 00 | CC | TT | CC | GG | CC | 00 | AG | AC | AA | CC | CC |
| 42 | AA | TT | CC | CT | TT | GG | CC | 00 | GG | CC | AG | CC | CC |
| 43 | 00 | 00 | CC | TT | TT | GG | TT | 00 | AG | AC | AA | CT | CC |
| 44 | GG | CT | CC | TT | CT | GG | CC | 00 | GG | CC | AA | TT | CC |
| 45 | GG | CC | CC | TT | CT | CG | CT | 00 | GG | CC | AA | CT | CC |
| 46 | AG | CT | CC | TT | CC | GG | CC | 00 | AG | AC | AA | CC | CC |
| 47 | AA | TT | CT | TT | TT | GG | CC | 00 | AG | AC | AG | CT | CC |
| 48 | AA | TT | CT | TT | CT | GG | CT | 00 | AG | CC | AA | CC | CC |
| 49 | AG | CT | CT | TT | CT | GG | CC | 00 | AG | AC | AG | CC | CC |
| 50 | 00 | 00 | CC | TT | TT | CG | CC | 00 | AG | AC | AG | CC | CC |
| 51 | AA | TT | CT | TT | CT | CG | CC | 00 | AG | AC | AG | CT | CC |
| 52 | 00 | 00 | CC | CT | CT | CG | CT | 00 | AG | AC | AA | CT | CC |
| 53 | AA | TT | CC | TT | CC | CG | CT | 00 | AA | AA | AA | CT | CC |
| 54 | AA | TT | TT | TT | CT | GG | CT | 00 | AG | AC | 00 | CT | CC |
| 55 | 00 | TT | TT | TT | CT | CG | CC | 00 | AA | AA | AA | CC | CC |
| 56 | 00 | TT | CC | TT | CT | CC | CC | 00 | AG | AC | AA | CT | CC |
| 57 | AG | CT | CC | TT | CT | GG | CC | 00 | AG | AC | AG | TT | CC |
| 58 | AA | TT | CT | CT | TT | GG | CC | 00 | AG | AC | 00 | CC | CC |
| 59 | AA | TT | CT | CT | CT | CG | CT | 00 | AG | AC | AA | CC | CC |
| 60 | AA | TT | CT | CT | CC | GG | CC | 00 | GG | CC | 00 | CT | CC |
| 61 | GG | CC | CT | CT | TT | GG | CT | 00 | AG | AC | AG | CT | CC |
| 62 | AA | TT | CC | CT | TT | GG | CT | 00 | GG | CC | AG | CC | CC |
| 63 | AG | CT | CC | TT | CT | CG | CC | 00 | AG | AA | AA | CC | CC |

| | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 64 | A G | C T | C C | T T | C T | G G | C T | 00 | A A | A A | A A | C T | C C |
| 65 | A G | C T | C T | C T | T T | G G | T T | 00 | A G | A C | A A | C T | C C |
| 66 | A A | T T | C C | T T | C T | G G | C C | 00 | A G | A C | A G | C C | C C |
| 67 | G G | C T | C T | C T | T T | G G | C T | 00 | G G | C C | A G | C T | C C |
| 68 | G G | C T | C T | C T | C T | C C | C C | 00 | G G | C C | A A | C T | C C |
| 69 | G G | C C | C C | T T | C T | C G | C T | 00 | G G | C C | A G | C C | C C |
| 70 | A A | T T | T T | T T | C C | G G | T T | 00 | A G | A C | 00 | C C | C C |
| 71 | A A | T T | C C | T T | C T | G G | C C | 00 | G G | C C | A G | C C | C C |
| 72 | A G | C T | C C | T T | C T | C G | C T | 00 | A G | A C | A A | C C | C C |
| 73 | A G | C T | T T | T T | T T | C G | C C | 00 | G G | C C | A G | C T | C C |
| 74 | A A | T T | C C | T T | T T | G G | C C | 00 | G G | C C | G G | C C | C C |
| 75 | A A | T T | T T | T T | T T | C G | C T | 00 | A A | A A | A A | C C | C C |
| 76 | A G | C T | C C | C T | C C | C G | C T | 00 | A G | A C | A G | C C | C C |
| 77 | A A | T T | C T | T T | C T | G G | C T | 00 | A A | A C | A G | C T | C C |
| 78 | A A | T T | C T | T T | C C | C C | C T | 00 | 00 | A A | A A | C C | C C |
| 79 | G G | C T | C T | T T | T T | G G | C C | 00 | A G | A C | A A | C C | C C |
| 80 | G G | C C | C C | C T | T T | C G | C C | 00 | A G | A C | A A | C T | C C |
| 81 | A G | C T | C C | T T | C T | C G | C T | 00 | A G | A C | A G | C C | C C |
| 82 | A A | T T | C C | T T | C C | C G | C T | 00 | A G | A C | A A | C T | C C |
| 83 | A A | T T | C C | T T | T T | C G | C C | 00 | A G | A C | A A | C C | C C |
| 84 | A A | T T | C C | T T | T T | G G | C C | 00 | A G | A C | A G | C C | C C |
| 85 | A A | T T | C C | T T | T T | C G | C T | 00 | A G | A C | A A | C C | C C |
| 86 | A G | C T | C T | T T | C T | C G | C T | 00 | G G | C C | A A | C T | C C |
| 87 | 00 | T T | C C | T T | T T | G G | C C | 00 | G G | A C | A A | C T | C C |
| 88 | A G | C T | C T | T T | C C | C G | C C | 00 | G G | C C | A A | C T | C C |
| 89 | A G | C T | C C | 00 | C T | G G | 00 | 00 | 00 | A C | A G | 00 | C C |
| 90 | A G | T T | C T | T T | C C | G G | C C | 00 | A G | A C | A G | T T | C C |
| 91 | A G | C T | C C | C T | T T | C G | C C | 00 | A G | A C | A A | C C | C C |
| 92 | A A | T T | C C | T T | C T | G G | C T | 00 | G G | C C | A G | C C | C C |
| 93 | A A | T T | C C | T T | T T | C G | C C | 00 | G G | C C | A G | T T | C C |
| 94 | A A | T T | C T | T T | T T | C G | C T | 00 | A G | A C | A A | C C | C C |
| 95 | A A | T T | T T | C T | C T | G G | C C | 00 | G G | C C | A A | C C | C C |
| 96 | A G | C T | C C | C T | C T | G G | C T | 00 | A A | A A | A A | C C | C C |

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|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 97 | A A | T T | C C | C T | C T | C G | C C | 00 | A A | A A | A A | C C | C C |
| 98 | A A | T T | C C | T T | C T | G G | C T | 00 | G G | C C | A A | T T | C C |
| 99 | A A | T T | C T | T T | C T | G G | C C | 00 | A A | A A | A A | C T | C C |
| 100 | 00 | 00 | C T | T T | T T | G G | T T | 00 | 00 | A C | 00 | 00 | C C |
| 101 | A A | T T | C T | C T | T T | G G | C C | 00 | G G | C C | A A | C T | C C |
| 102 | A A | T T | C C | T T | C T | C G | T T | 00 | A G | A C | A A | C C | C C |
| 103 | A G | C T | C C | T T | C T | 00 | C T | 00 | A A | A A | A A | C C | C C |
| 104 | A G | C T | C T | T T | C T | G G | C T | 00 | A G | A C | A A | T T | C C |
| 105 | A A | T T | C C | C T | C T | C C | T T | 00 | G G | C C | A G | T T | C C |
| 106 | A A | T T | C C | T T | C T | C G | C C | 00 | G G | C C | A G | C T | C C |
| 107 | A A | T T | C T | C C | C T | G G | C C | 00 | G G | C C | A A | C C | C C |
| 108 | A A | T T | C C | T T | C T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 109 | A G | C T | C C | C T | C T | G G | C T | 00 | G G | C C | A G | C C | C C |
| 110 | A A | T T | C C | C T | C T | G G | C C | 00 | G G | C C | A A | C T | C C |
| 111 | A A | T T | C C | C T | C C | G G | C C | 00 | G G | C C | A G | C C | C C |
| 112 | A G | C T | C C | T T | T T | G G | C C | 00 | 00 | C C | 00 | C C | C C |
| 113 | A G | C T | C C | T T | T T | G G | C C | 00 | G G | C C | G G | C C | C C |
| 114 | A A | T T | C T | T T | C T | C G | C C | 00 | A G | A C | A A | C T | C C |
| 115 | A A | T T | C C | C C | C T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 116 | A A | T T | C T | C T | C T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 117 | A A | T T | C C | C T | T T | G G | C C | 00 | A G | A A | A A | C C | C C |
| 118 | A A | T T | C T | T T | C T | G G | C C | 00 | G G | C C | A A | C C | C C |
| 119 | A A | T T | C C | T T | T T | G G | C C | 00 | G G | C C | A G | C C | C C |
| 120 | A A | T T | C C | T T | T T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 121 | A A | T T | C C | C T | T T | G G | T T | 00 | A G | A C | A G | C C | C C |
| 122 | A A | T T | C T | C T | T T | G G | C T | 00 | A G | A C | A G | C C | C C |
| 123 | A G | C T | C C | T T | C T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 124 | A A | T T | T T | C T | T T | G G | T T | 00 | G G | C C | A G | C T | C C |
| 125 | A G | C T | C C | T T | C T | G G | C T | 00 | G G | C C | A A | C C | C C |
| 126 | A G | C T | C C | C T | T T | C G | C C | 00 | G G | C C | A G | C T | C C |
| 127 | A A | T T | C C | T T | T T | G G | C C | 00 | A G | C C | A G | C C | C C |
| 128 | A A | T T | C C | T T | T T | C G | C C | 00 | A A | A A | A A | T T | C C |
| 129 | A G | C T | T T | T T | T T | G G | T T | 00 | G G | C C | A A | C C | C C |

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|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 130 | A G | C T | C C | C C | T T | G G | C C | 00 | A G | A C | A G | C T | C C |
| 131 | A A | T T | C C | C T | T T | C G | C C | 00 | G G | C C | A A | C C | C C |
| 132 | A G | C T | C T | T T | T T | G G | C T | 00 | G G | C C | A G | C T | C C |
| 133 | A G | C T | 00 | T T | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 134 | A A | T T | C C | T T | C T | G G | C C | 00 | A G | A C | A A | C T | C C |
| 135 | A G | T T | C T | T T | T T | G G | C C | 00 | G G | C C | A A | C T | C C |
| 136 | A G | C T | C T | C T | T T | G G | C C | 00 | A G | A C | A A | C T | C C |
| 137 | A A | T T | C C | C C | C T | G G | T T | 00 | G G | C C | A G | C T | C C |
| 138 | A A | T T | C T | C C | T T | C G | C T | 00 | A G | A C | A A | C T | C C |
| 139 | A A | T T | C C | C C | T T | G G | C T | 00 | G G | C C | A G | C T | C C |
| 140 | A G | C T | C C | T T | T T | C G | C C | 00 | G G | C C | A G | C T | C C |
| 141 | A G | C T | C C | T T | C T | C G | C C | 00 | G G | C C | A G | T T | C C |
| 142 | A A | T T | C C | T T | C T | G G | C T | 00 | G G | C C | A A | C C | C C |
| 143 | A A | T T | C T | T T | T T | G G | C T | 00 | G G | C C | A A | C C | C C |
| 144 | A A | T T | C C | T T | C T | G G | C C | 00 | A A | A A | A A | C C | C C |
| 145 | A A | T T | C C | C C | T T | G G | C T | 00 | A G | A C | A G | C C | C C |
| 146 | A A | T T | T T | C T | T T | C G | C T | 00 | A A | A A | A A | C C | C C |
| 147 | A A | T T | 00 | T T | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 148 | A A | T T | C T | T T | C T | G G | C C | 00 | A A | A A | A A | C C | C C |
| 149 | A A | T T | T T | T T | C T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 150 | A A | T T | C C | T T | C C | C G | C C | 00 | A G | A C | A A | C C | C C |
| 151 | A A | T T | C C | T T | T T | C C | C C | 00 | A A | A A | A A | C C | C C |
| 152 | A G | C T | C C | T T | C T | C G | C C | 00 | A G | A C | A A | C T | C C |
| 153 | A G | C T | T T | T T | C T | C G | C T | 00 | A G | A C | A A | C T | C C |
| 154 | A A | T T | C C | T T | T T | C G | C T | 00 | A A | A A | A A | C C | C C |
| 155 | A A | T T | C C | C T | C T | G G | C C | 00 | G G | C C | A G | C T | C C |
| 156 | A A | T T | C C | T T | C T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 157 | A A | T T | C C | T T | C T | G G | C T | 00 | A A | A A | A A | C C | C C |
| 158 | A G | C T | C C | T T | C T | C G | C C | 00 | G G | C C | G G | C T | C C |
| 159 | A G | C T | C C | C T | C C | C G | C T | 00 | G G | C C | A G | C T | C C |
| 160 | 00 | 00 | C T | T T | T T | C G | C C | 00 | A G | A C | A A | C T | C C |
| 161 | A A | T T | T T | T T | C T | C G | C C | 00 | G G | C C | A A | C T | C C |
| 162 | A A | T T | C C | C T | T T | G G | C T | 00 | A G | A C | A G | C T | C C |

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|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 163 | A A | T T | C C | T T | T T | G G | C T | 00 | A G | A C | A A | C C | C C |
| 164 | A A | T T | C C | T T | T T | G G | C C | 00 | A G | A C | A A | C C | C C |
| 165 | A A | T T | C T | T T | C T | G G | C C | 00 | G G | C C | A G | C C | C C |
| 166 | A A | T T | C T | T T | T T | G G | C C | 00 | G G | C C | G G | C T | C C |
| 167 | A A | T T | C C | C T | C T | G G | C T | 00 | G G | C C | A G | C C | C C |
| 168 | A A | T T | C C | T T | C T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 169 | A A | T T | T T | C T | T T | C G | C T | 00 | A G | A C | A A | C C | C C |
| 170 | A A | T T | C C | C T | T T | G G | C T | 00 | G G | C C | A A | C C | C C |
| 171 | A A | T T | C C | T T | T T | G G | C C | 00 | A G | A A | A A | C C | C C |
| 172 | A G | C T | C C | 00 | C T | C G | C C | 00 | A G | A C | A G | C C | C C |
| 173 | A A | T T | C C | T T | T T | G G | C T | 00 | A G | A C | A A | C T | C C |
| 174 | A A | T T | C C | T T | T T | G G | C T | 00 | G G | C C | A A | T T | C C |
| 175 | A G | C T | C T | T T | C T | G G | C C | 00 | A A | A A | A A | C C | C C |
| 176 | A A | T T | C C | T T | C T | C G | C C | 00 | A G | A C | A G | C C | C C |
| 177 | A G | C T | C T | T T | T T | G G | C T | 00 | 00 | C C | 00 | C C | 00 |
| 178 | A A | T T | C C | T T | C C | C G | C T | 00 | 00 | A A | 00 | C T | 00 |
| 179 | 00 | T T | C C | T T | C T | C G | C T | 00 | 00 | A A | 00 | C T | 00 |
| 180 | A A | T T | C T | T T | C T | G G | C C | 00 | 00 | A A | 00 | C C | 00 |
| 181 | A A | C T | C T | C T | C C | G G | C C | 00 | 00 | C C | 00 | C C | 00 |
| 182 | 00 | T T | C T | T T | T T | C G | C T | 00 | 00 | C C | 00 | C T | 00 |
| 183 | 00 | T T | C T | C T | T T | G G | C C | 00 | 00 | A C | 00 | C T | 00 |
| 184 | 00 | C T | C C | C T | C T | C G | C T | 00 | 00 | A C | 00 | C T | 00 |
| 185 | A G | C T | 00 | T T | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 186 | A A | T T | C T | C T | C T | G G | C C | 00 | 00 | C C | 00 | T T | 00 |
| 187 | 00 | T T | C C | T T | C T | C G | C C | 00 | 00 | A C | 00 | C C | 00 |
| 188 | A A | T T | C C | C T | C T | C G | C C | 00 | A G | A A | 00 | C C | 00 |
| 189 | A G | C T | C C | T T | C T | G G | C C | 00 | 00 | A C | 00 | C T | 00 |
| 190 | A A | T T | C T | T T | T T | C G | C T | 00 | A G | A C | 00 | C T | 00 |
| 191 | A A | T T | C C | C T | T T | G G | C C | 00 | 00 | C C | 00 | C T | 00 |
| 192 | A G | C T | C C | T T | C T | C G | C C | 00 | 00 | A C | 00 | C C | 00 |
| 193 | A G | C T | C T | C T | C T | G G | C C | 00 | 00 | A C | 00 | C C | 00 |
| 194 | A A | T T | C T | T T | T T | C G | C T | 00 | A G | A C | 00 | C T | 00 |
| 195 | A A | T T | C C | C T | T T | G G | C C | 00 | 00 | A C | 00 | C C | 00 |

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|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|----|
| 196 | A G | C T | C C | T T | C T | G G | C T | 00 | A G | A C | 00 | C C | 00 |
| 197 | A A | T T | C C | C T | C C | C G | C T | 00 | 00 | C C | 00 | C T | 00 |
| 198 | A A | T T | T T | T T | C C | G G | C C | 00 | G G | C C | 00 | C T | 00 |
| 199 | A G | C T | C C | T T | C T | G G | C T | 00 | G G | C C | 00 | C C | 00 |
| 200 | A G | C T | C T | T T | C T | C G | C C | 00 | A A | A A | 00 | C C | 00 |
| 201 | A G | C T | C T | C T | T T | G G | C C | 00 | 00 | A C | 00 | C T | 00 |
| 202 | A A | T T | C T | T T | T T | C G | C C | 00 | A G | C C | 00 | C C | 00 |
| 203 | A A | T T | C T | T T | T T | C G | C C | 00 | 00 | A C | 00 | C C | 00 |
| 204 | A A | T T | C T | C T | C C | G G | T T | 00 | 00 | C C | 00 | C C | 00 |
| 205 | A G | C T | C T | T T | C T | G G | C C | 00 | 00 | A A | 00 | C C | 00 |
| 206 | A A | T T | C T | T T | T T | G G | C C | 00 | G G | C C | 00 | C C | 00 |
| 207 | A A | T T | C C | T T | C C | C G | C T | 00 | A A | A A | 00 | C T | 00 |
| 208 | A A | T T | C T | C C | T T | G G | C C | 00 | A G | A C | 00 | C T | 00 |
| 209 | A A | T T | C T | C C | T T | G G | C C | 00 | 00 | A C | 00 | C T | 00 |
| 210 | A G | C T | C C | T T | C T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 211 | A A | T T | C C | T T | C T | G G | C C | 00 | A G | A C | 00 | C T | 00 |
| 212 | A A | T T | C C | T T | C C | C G | C T | 00 | G G | C C | 00 | C C | 00 |
| 213 | A A | T T | C T | T T | T T | C G | C T | 00 | A G | A C | 00 | C C | 00 |
| 214 | A G | C T | C C | T T | C C | C G | C T | 00 | A G | A C | 00 | C C | 00 |
| 215 | A A | T T | C T | T T | T T | C G | C C | 00 | A A | A A | 00 | C C | 00 |
| 216 | A A | T T | C T | T T | C T | C G | C T | 00 | A A | A A | 00 | C T | 00 |
| 217 | A A | T T | C C | C T | C T | G G | C C | 00 | A A | A A | 00 | C C | 00 |
| 218 | A A | T T | C T | T T | C T | G G | C C | 00 | A G | A C | 00 | C T | 00 |
| 219 | A A | T T | C C | C T | C T | C G | C T | 00 | A A | A A | 00 | C T | 00 |
| 220 | A A | T T | C C | C T | T T | C G | C C | 00 | G G | C C | 00 | C C | 00 |
| 221 | A G | C T | C T | T T | C T | G G | C C | 00 | G G | C C | 00 | C T | 00 |
| 222 | A G | C T | C C | T T | C T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 223 | A A | T T | C C | T T | T T | G G | C C | 00 | G G | C C | 00 | C T | 00 |
| 224 | A G | C T | C T | T T | C T | C G | C C | 00 | A G | A C | 00 | C C | 00 |
| 225 | A A | T T | C C | T T | C T | G G | C C | 00 | 00 | C C | 00 | C T | 00 |
| 226 | G G | C C | C C | T T | C C | G G | C C | 00 | 00 | C C | 00 | C C | 00 |
| 227 | A A | T T | C C | T T | C T | G G | C T | 00 | A G | A C | 00 | C T | 00 |
| 228 | A A | T T | T T | C T | T T | G G | C C | 00 | A G | A C | 00 | C C | 00 |

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|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|----|
| 229 | A A | T T | C C | T T | C T | G G | C T | 00 | A G | A C | 00 | C T | 00 |
| 230 | A A | T T | C C | C T | T T | C G | C T | 00 | 00 | C C | 00 | C T | 00 |
| 231 | A A | T T | C T | T T | C T | G G | C C | 00 | A G | A C | 00 | T T | 00 |
| 232 | A G | C T | C T | T T | T T | G G | C T | 00 | A G | A C | 00 | C T | 00 |
| 233 | A A | T T | C T | C T | T T | G G | C C | 00 | G G | C C | 00 | T T | 00 |
| 234 | A A | T T | C C | T T | C C | C G | C T | 00 | G G | C C | 00 | T T | 00 |
| 235 | A A | T T | C T | C C | C T | G G | C C | 00 | G G | C C | 00 | C T | 00 |
| 236 | A A | T T | C C | T T | T T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 237 | A A | T T | C T | C T | T T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 238 | A A | T T | C T | C T | C T | G G | C C | 00 | A G | A C | 00 | C T | 00 |
| 239 | A G | C T | C T | C T | T T | G G | C C | 00 | G G | C C | 00 | C C | 00 |
| 240 | A A | T T | C T | T T | T T | G G | C T | 00 | A G | A C | 00 | C C | 00 |
| 241 | A A | T T | C C | T T | C C | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 242 | A G | C T | C T | T T | T T | G G | C T | 00 | 00 | C C | 00 | C C | 00 |
| 243 | A A | T T | C C | C T | C T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 244 | A A | T T | C C | T T | C C | C G | C C | 00 | A A | A A | 00 | C C | 00 |
| 245 | A A | T T | C C | C C | T T | G G | C C | 00 | A G | A C | 00 | C C | 00 |
| 246 | A G | C T | C C | T T | C T | G G | C T | 00 | A G | A C | 00 | C T | 00 |
| 247 | A A | T T | C T | T T | T T | G G | C T | 00 | A A | A A | 00 | C T | 00 |
| 248 | A A | T T | C T | T T | C T | C G | T T | 00 | G G | C C | 00 | C T | 00 |
| 249 | A G | C T | C C | C T | T T | C G | C C | 00 | 00 | A A | 00 | C C | 00 |
| 250 | A G | C T | C C | C T | C T | G G | C T | 00 | A A | A C | 00 | C T | 00 |
| 251 | A A | T T | C C | T T | T T | G G | C T | 00 | A G | A C | 00 | C C | 00 |
| 252 | A G | C T | C T | T T | T T | G G | C T | 00 | G G | C C | 00 | C T | 00 |
| 253 | A A | T T | C T | C T | T T | G G | C T | 00 | A A | A A | 00 | C T | 00 |
| 254 | A A | T T | C C | T T | C C | G G | C T | 00 | A G | A C | 00 | C T | 00 |
| 255 | A A | T T | C C | C T | C C | G G | C C | 00 | A G | A C | 00 | C T | 00 |
| 256 | A A | T T | C C | T T | C C | G G | C T | 00 | A G | A C | 00 | C C | 00 |
| 257 | A G | C T | C C | C T | C T | G G | T T | 00 | 00 | C C | 00 | C C | 00 |
| 258 | A G | C T | C C | C T | T T | G G | C C | 00 | G G | C C | 00 | C T | 00 |
| 259 | G G | C C | C C | C T | T T | C C | C C | 00 | G G | C C | 00 | T T | 00 |
| 260 | A A | T T | C C | T T | C T | C G | C T | 00 | G G | C C | 00 | C T | 00 |
| 261 | A A | T T | C T | 00 | T T | C G | C T | 00 | A A | A A | 00 | C C | 00 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 262 | A A | T T | C T | C T | T T | C C | C C | 0 0 | A G | A C | 0 0 | C C | 0 0 |
| 263 | A A | T T | C C | T T | C T | G G | C C | 0 0 | A G | A C | 0 0 | T T | 0 0 |
| 264 | A G | C T | C C | T T | C C | G G | T T | 0 0 | A G | A C | 0 0 | C T | 0 0 |
| 265 | A A | T T | C C | T T | C C | G G | C C | C C | A G | A C | A A | C C | 0 0 |
| 266 | A A | T T | C C | C T | C T | G G | C T | C C | A G | A C | A A | C T | 0 0 |
| 267 | A A | T T | T T | T T | C T | C G | C C | C C | G G | C C | A A | C C | 0 0 |
| 268 | A G | C T | C T | T T | C C | G G | T T | C C | A G | A C | A A | C C | 0 0 |
| 269 | A A | T T | C C | T T | T T | G G | C T | C T | A G | A C | A G | T T | 0 0 |
| 270 | A A | T T | C T | C T | C T | G G | C C | C T | G G | C C | A G | C C | 0 0 |
| 271 | A A | T T | T T | T T | C T | C G | C T | C C | A G | A C | A A | T T | 0 0 |
| 272 | A A | T T | C T | T T | T T | G G | C C | C C | A G | A C | A A | C T | 0 0 |
| 273 | A A | T T | C T | T T | T T | G G | C C | C C | A G | A C | A A | C C | 0 0 |
| 274 | A A | T T | C C | T T | T T | G G | T T | C T | A G | A C | A G | C C | 0 0 |
| 275 | A A | T T | C C | C T | T T | C G | C T | C T | A G | A C | A A | T T | 0 0 |
| 276 | A G | C T | C T | 0 0 | C C | G G | C C | C T | G G | C C | A G | C C | 0 0 |
| 277 | A A | T T | C C | C T | C C | G G | C T | C T | A G | A C | A G | C C | 0 0 |
| 278 | A A | T T | C T | T T | C T | G G | C T | C T | A G | A C | A A | C C | 0 0 |
| 279 | G G | C C | C T | T T | C T | C G | C T | C T | G G | C C | G G | C T | 0 0 |
| 280 | A A | T T | C C | C C | C T | C G | C C | C C | A G | A C | A G | C C | 0 0 |
| 281 | A A | T T | C T | T T | C T | G G | C C | C C | A A | A A | A A | C C | 0 0 |
| 282 | A A | T T | C C | C T | T T | G G | C C | C C | G G | C C | A G | C C | 0 0 |
| 283 | A A | T T | C C | T T | C T | G G | C C | C C | G G | C C | A A | C C | 0 0 |
| 284 | A G | T T | C T | T T | C T | C G | C T | C C | A G | A C | A G | C T | 0 0 |