

## Appendix 1.

| Primer information |                                                                        |                           |      |
|--------------------|------------------------------------------------------------------------|---------------------------|------|
| SNP ID             | Forward and reverse primer                                             | Amplification Length (bp) | Tm   |
| rs3892225          | F:ACGTTGGATGGTGCCTGGAGTATATGAAGC<br>R:ACGTTGGATGTCCACAGTTGGTATTTAGTC   | 98                        | 50.8 |
| rs2009112          | F:ACGTTGGATGTACCTATCAAAGTCGCTGCC<br>R:ACGTTGGATGAGGGACACATGATTGGTCAC   | 100                       | 45.6 |
| rs1473526          | F:ACGTTGGATGAGAGGGTTTCCAACCTCCAGG<br>R:ACGTTGGATGCAACCCAACCTGAAAGAACAC | 100                       | 48.3 |
| rs2027567          | F:ACGTTGGATGCTGTCCACATATTCCAGAGG<br>R:ACGTTGGATGGAAGGGTAGAGTAGAATTAG   | 99                        | 46.5 |
| rs10482751         | F:ACGTTGGATGGGTGGTGTCTTCTTTTGGC<br>R:ACGTTGGATGAAAACAATCTTCTTACCCC     | 93                        | 46.8 |
| rs10495098         | F:ACGTTGGATGCATTTACGTTACCAGGGAG<br>R:ACGTTGGATGCACCTCTCAAATGATCAGTTC   | 96                        | 53.7 |
| rs17047703         | F:ACGTTGGATGCTTCCGCTATCTTGATGTAG<br>R:ACGTTGGATGGCAAGCACATCTGGCAAATC   | 98                        | 46.7 |
| rs2796817          | F:ACGTTGGATGACTCTTCTGCTGGTCGCCTG<br>R:ACGTTGGATGATAGGCCACGACTGGACTTC   | 100                       | 59.6 |
| rs947712           | F:ACGTTGGATGGTGAGTTTTGGGGATTGAATG<br>R:ACGTTGGATGTAAATGATACTGCAGGGCAC  | 100                       | 46   |
| rs2796821          | F:ACGTTGGATGTGAAACAGGAGTGGGTTTGG<br>R:ACGTTGGATGAGTACGCACACTGAAACACG   | 100                       | 46.7 |
| rs2798631          | F:ACGTTGGATGGCCAAACTCAAGAGTTGATA<br>R:ACGTTGGATGGAGAAACGAATTTCAAGTC    | 90                        | 48.6 |
| rs2027566          | F:ACGTTGGATGGAAGGGTTCACTCTGGTTTC<br>R:ACGTTGGATGCGATGCCACAATGATGTCAC   | 99                        | 50.5 |
| rs1342586          | F:ACGTTGGATGCTTCTACATCACCTGGGAAC<br>R:ACGTTGGATGCCCCAGAGCCTCTGATTTAA   | 100                       | 46.5 |
| rs10779329         | F:ACGTTGGATGTTGTGCTCACTTGGGCATGG<br>R:ACGTTGGATGAGTTTTAGGGCAAGGGTCTC   | 99                        | 45.7 |
| rs2796814          | F:ACGTTGGATGACTGCCTTGGACAGGCAATC<br>R:ACGTTGGATGAGCAAAGGGATCAACTGGAG   | 93                        | 49.6 |
| rs17558745         | F:ACGTTGGATGGGGCCTCTATGTTTCTTTTG<br>R:ACGTTGGATGCCAAAGGTTGACATCTTCAC   | 98                        | 45.7 |
| rs1317681          | F:ACGTTGGATGTCCCGACTGGGCATCAAGG<br>R:ACGTTGGATGTTTGACCCTGCCTTTACTTC    | 100                       | 49.3 |
| rs17047682         | F:ACGTTGGATGCCACATTGCTAAAAATATG<br>R:ACGTTGGATGTTACAGATTGCTGATAGCCC    | 89                        | 45.2 |
| rs2799097          | F:ACGTTGGATGGCTTTATGTAGTAAGCATTT<br>R:ACGTTGGATGTATCTCATACCCACATGC     | 99                        | 45.6 |
| rs2761884          | F:ACGTTGGATGCTCCGGGCAGATTCAAGAAAG<br>R:ACGTTGGATGCTCGGCCACATTAAGATCTG  | 94                        | 45.9 |
| rs11623717         | F:ACGTTGGATGGTTTCGGCATTTACTATTT<br>R:ACGTTGGATGAAAGCAACGCCGAGAATCAC    | 99                        | 45.6 |
| rs8014363          | F:ACGTTGGATGGGCCTAAGAATCTCTAACAT<br>R:ACGTTGGATGGGTAAATAAAAGTGATTGTTG  | 100                       | 45.6 |

|           |                                                                        |     |      |
|-----------|------------------------------------------------------------------------|-----|------|
| rs8014071 | F:ACGTTGGATGGATCCAGTTTATTTCCCCAG<br>R:ACGTTGGATGCTTAGTCCCTTAATCACCTG   | 100 | 46.6 |
| rs17563   | F:ACGACAGGTCATCAGCACACTACTCCACTT<br>R:ACGTTTTGCTGGTTTGTTAGCTGCCCCAC    | 98  | 45.7 |
| rs2235716 | F:ACGTTGGATGGAAAAAGAGAGCTCCTTC<br>R:ACGTTGGATGTGTAGGAATGTGTGTGCTGG     | 99  | 53.8 |
| rs2235715 | F:ACGGGGACCCGGACTACCCGGCCGCCCCG<br>R:ACGCCGTGAAAGGCCATTTTCTTTCTGAAG    | 96  | 46.2 |
| rs2569889 | F:ACGTCTCACGTTGACGCTCCCGACACATTA<br>R:ACGTTGGCACACAGAGAGGTATGCGCTC     | 99  | 45.8 |
| rs984253  | F:ACGTGAGAGAAGACGTTTTACATGATATATCA<br>R:ACGACCCTAGACCAAAATGTTCTGCTCCTC | 100 | 49.1 |