**S1 Table. Primer sequences, restriction-product characteristics and PCR conditions.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Oligo name** | **Oligo sequence** | **PCR size (bp)** | **Restriction enzyme** | **Restriction****products (bp)** | **PCR thermal profiles** |
| ***HFE* C282Y**Fw RstRv RstFw PyRv PySq | (rs 1800562)5’-TGGCAAGGGTAAACAGATCC-3’5’-CTCAGGCACTCCTCTCAACC-3’5’-CGAACCTAAAGACGTATTGCC-3’5’-CCCAATAGATTTTCTCAGCTCCT-3’[Bio]5’GGAAGAGCAGAGATATACG-3’ | 387 | *Rsa*I (37°C) | 247+140 (*WT*) | 95°C/2', 95°C/30", 53.4°C/40", 72°C/40", 72°C/5' (34 cycles) |
| ***HFE* H63D** Fw RstRv RstFw PyRv PySq | (rs 1799945)5’-ACATGGTTAAGGCCTGTTGC-3’5’-GCCACATCTGGCTTGAAATT-3’5’-CCACATCTGGCTTGAAATTCT-3’5’-GTTTGAAGCTTTGGGCTACG-3’[Bio]5’GGGCTCCACACGGCG-3’ | 207 | *Bcl*I (50°C) | 137+70 (*P*) | 95°C/2', 95°C/30", 51.6°C/30", 72°C/45", 72°C/5' (34 cycles) |
| ***FNP1* -8CG**Fw Rst/PyRv Rst/PySq | (rs 11568351)5’CCAGTTCCTTGCACTCCTG-3’5’CATCCTCTCTGGCGGTTG-3’[Bio]5’AGAGCCAGCGGGGTC-3’ | 129 | *BstU*I (60°C) | 85+44 (*P*) | 95°C/2', 95°C/30", 52°C/40", 72°C/40", 72°C/5' (34 cycles) |
| ***HAMP* -582AG**Fw RstRv RstFw PyRv PySq | (rs 10421768)5’-ACCCTCCTGCCTTGGCCTC-3’5’-CCATTGCTTTAAGCTCTCACC-3’5’-ACATCTCAAGGGTCTGACACTGG-3’5’-GAGCAGGGCAAGCATCAGC-3’[Bio]5’-TCTGACACTGGGAAAAC-3’ | 252 | *HpyCH4*IV(37°C) | 226+26 (*P*) | 95°C/2', 95°C/30", 54.3°C/30", 72°C/20", 72°C/5' (34 cycles) |
| ***TF* P570S** Fw RstRv RstFw PyRv PySq | (rs 1049296)5’-GCTGTGCCTTGATGGTACCAGGTAA-3’5’-GGACGCAAGCTTCCTTATCT-3’5’-GAAAAAGACTATGAGTTGCTGTGC-3’5’-CTGTGACCACAGCGTGATTC-3’[Bio]5’-TGATGGTACCAGGAA-3’ | 110 | *BstE*II(60°C) | 89+21 (*WT*) |
| ***APOE***Fw RstRv RstFw PyRv PySq C112RSq R158C | (C112R: rs 429358; R158C: rs 7412)5’-ACAGAATTCGCCCCGGCCTGGTACAC-3'5'-TAAGCTTGGCACGGCTGTCCAAGGA-3'5’-CTGGGCGCGGACATGGAG-3’5’-CCCCGGCCTGGTACACTG-3’[Bio]5’-CGGACATGGAGGACG-3’5’-CCGATGACCTGCAGA-3’ | 244 | *HhA-I* | *multiple size products\** | 95°C/2', 95°C/30", 57°C/15", 72°C/15", 72°C/5' (34 cycles) |

Fw and Rv, indicate the forward and reverse primer respectively; Sq, indicates the specific sequencing primer; Rst and Py, indicate restriction and Pyrosequencing technique respectively; *WT* and *P,* indicate the wild-type (common) and polymorphic (rare) allele respectively; [Bio], indicate the biotinylated primer; \* according to [28, 69].