Supplementary Table 3. Primer pairs used in the sequencing of the gene fragments containing the studied SNPs

| Gene  | SNP  | Product size [bp]  | Primer 5’-3’  | Melting temp. [°C]  | Nucleotide Sequence 5’-3’  |
| --- | --- | --- | --- | --- | --- |
| *HERC2*  | rs12913832:A>G  | 724  | F  | 60.0  | CAGAGGCCCAGTGACAATTT  |
|  |  |  | R  |  | GCAAGTCAAGGTGCACTCAA  |
| *MC1R*  | first half of the exon  | 609  | F  | 60.0  | CAGATGGAAGGAGGCAGG  |
|  |  | R  |  | AGGGTCACGATGCTGTGGTA  |
| *MC1R*  | second half of the exon  | 748  | F  | 60.0  | CTTGTCGGACCTGCTGGTGA  |
|  |  | R  |  | CTCTGCCCAGCACACTTAAA  |
| *OCA2*  | rs1800401:C>T  | 687  | F  | 60.0  | ACTGTTCATTGTCGGGTGGT  |
|  |  |  | R  |  | AGTGAGCAGCGGAGAGAGAG  |
| *SLC24A5*  | rs1426654:A>G  | 647  | F  | 61.0  | CTCACCTACAAGCCCTCTGC  |
|  |  |  | R  |  | TCCCAGACGACGAACAGTTA  |
| *SLC45A2*  | rs16891982:C>G  | 571  | F  | 59.0  | GAGATCTGATGCAGCAAGCA  |
|  |  |  | R  |  | GGAACCCACTGATTCCAAGA  |
| *SLC45A2*  | rs28777:C>A  | 681  | F  | 60.0  | GAACAAAACAAGGTGCGGTT  |
|  |  |  | R  |  | TCTTTGGCAAGCAATGACAG  |
| *TPCN2*  | rs3829241:G>A  | 675  | F  | 59.0  | CCAGAAAAGTGACCACCCAG  |
|  |  |  | R  |  | TCTGAAAGGTCCCTGTGGA  |
| *TPCN2*  | rs35264875:A>T  | 505  | F  | 61.0  | CTCTGTTCTGGCGTTGCAG  |
|  |  |  | R  |  | CCCAGCCTCCTAAAGACCTC  |
| *TYR*  | rs1042602:C>A  | 993  | F  | 59.5  | TCCAATTAGCCAGTTCCTGC  |
|  |  |  | R  |  | AACAGGGCACCATTTCTGTC  |
| *TYRP1*  | rs1408799:T>C  | 529  | F  | 60.0  | TGGAAGACCCAAGGAGCTAA  |
|  |  |  | R  |  | CATTTTCCTGCAATACACATGC  |