Table S1. Sequence of primers, fluorescent probes, and specific features of the amplification of the polymorphic regions of genes *FTO*, *KCNJ11*, *SLC30A8,* *CDKN2B,* and *CDKAL1*

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| --- | --- | --- | --- | --- | --- |
| Gene | Polymorphicmarker | Genotyping method | Sequenceof primers, 5`−3` | Sequenceof probes, 5`−3` | Annealing temperature, °С |
| *FTO* | *rs8050136* | TaqMan | gcttcatagcctagtctagcttcatagcctagtcta | cactgtggcaataaatatctgagccactgtggcaatcaatatctgagc | 58 |
| *rs7202116* | TaqMan | gcctaatgttgaaatctcagaacctccatcattcacta | taactaatcatataaacatctttcatcttagactgtaactaatcatataaacgtctttcatcttagactg | 58 |
| *rs9930506* | TaqMan | gtgtgatccaatattagggctaggtatgtatcaacttca | aagggacatactacatgaattactaatatcaagggacatactacgtgaattactaatatc | 60 |
| *KCNJ11* | *rs5219* | TaqMan | gaggaatacgtgctgacatgcctttcttggacacaa | aggaccctgccaagcccaggtaaggaccctgccgagcccaggta | 62 |
| *SLC30A8* | *rs13266634*  | TaqMan | tctccctgtgcttctttatcgtgagtgagtgcatcgta | agcagccagccgggacagccagcagccagctgggacagcc | 60 |
| *CDKN2B* | *rs10811661* | TaqMan | aagcgttcttgccctgtcggtaggaggagccagaaga | cctccagctttagttttcccatgacagtaagtctcctccagctttagttttctcatgacagtaagtct | 60 |
| *CDKAL1* | *rs7756992* | TaqMan | tttgacaattaatattcccttttaacacacaagaatc | tgtattttagttttagatctacagtttgtattttagttttggatctacagtt | 54 |
| *rs9465871* | TaqMan | gagtgatcagctgtgtaaccagttccctattgacaa | tgttgctgagaaactgagttagatgaatgttgctgagaaattgagttagatgaa | 55 |
| *rs7754840* | TaqMan | ccagatataccaccaaaaacctcagtcaataacaga | aatgttggaaacgttgacttgataatgttggaaaggttgacttgat | 55 |
| *rs10946398* | TaqMan | tataattaggttgaactggttgtaagacaagtgttctgatat | tttagtatcgttatgctgtcattgctttagtatcgttctgctgtcattgc | 53 |