**Table S1** **The primer sequence of mRNAs for qPCR**

|  |  |  |
| --- | --- | --- |
| **Genes** | **GenBankTM accession no.** | **Sequence (5′-3′)** |
| *β-actin* | NM\_007393 | Forward: GTCCTCTCCCAAGTCCACAC  Reverse: GGGAGACCAAAAGCCTTCAT |
| *Ago2* | NM\_153178 | Forward: GCACTTACCATCCATGAGGTAC  Reverse: AAAGAGAAGGTCGGACGGACTGAT |
| *AMPKα1* | NM\_001355640 | Forward: GGGATCCATCAGCAACTATCG  Reverse: GGGAGGTCACGGATCAGG |
| *Ucp1* | NM\_009463 | Forward: AGGCTTCCAGTACCATTAGGT  Reverse: CTGAGTGAGGCAAAGCTGATTT |
| *Cidea* | NM\_007702 | Forward: TGCTCTTCTGTATCGCCCAGT  Reverse: GCCGTGTTAAGGAATCTGCTG |
| *Cox8b* | NM\_007751 | Forward: GAACCATGAAGCCAACGACT  Reverse: GCGAAGTTCACAGTGGTTCC |
| *Elovl3* | NM\_007703 | Forward: CGTAGTCAGATTCTGGTCCT  Reverse: CCAGAAGAAGTGTTCCGTTG |
| *Ucp2* | NM\_011671 | Forward: CTGCAGATCCAAGGGGAGAGT  Reverse: CCTTGGTGTAGAACTGTTTGACAG |
| *Cpt1* | NM\_001039657 | Forward: CTCTCGACGAGCCAAACCC  Reverse: CCGCAATGATATACGAAACGC |
| *Cd36* | NM\_001159558 | Forward: GAACCACTGCTTTCAAAAACTGG  Reverse: TGCTGTTCTTTGCCACGTCA |
| *Ldlr* | NM\_010700 | Forward: TGACTCAGACGAACAAGGCTG  Reverse: CTAACTAAACACCAGACAGAGGC |
| *Fas* | NM\_004104 | Forward: GGTTACACTGTGCTAGGTGTTG  Reverse: TCCAGGCGCATGAGGCTCAGC |
| *ACC1* | NM\_133360 | Forward: AAGGGCTGCCTCTAATG  Reverse: GATGTAAGCGCCGAACT |
| *ACC2* | NM\_133904 | Forward: GCCAGAAGCCCCCAAGAAAC  Reverse: CGACATGCTCGGCCTCATAG |
| *GPAT* | NM\_001079096 | Forward: GACGTCCGTAAGAGCATGTTTTG  Reverse: CTTCACTTTGTTGGTGGATTTGG |
| *Srebp1* | NM\_0011480 | Forward: TGAAGCCGGAGGTGGTAGA  Reverse: CTTCATCTGGCTGTCCTCAAAA |
| *ChREBP* | NM\_001359237 | Forward: GTATGTGGAGCGGAGGAAGAG  Reverse: ATGACGGCCTCGGGTTT |
| *S14* | NM\_009381 | Forward: TGAGAACGACGCTGCTGAAAC  Reverse: AGGTGGGTAAGGATGTGATGGAG |
| *HMGCR* | NM\_008255 | Forward: CTCAGTTCAAATTCACAGGATGAAGTAAG  Reverse: ACGGCTTTCACGAGAAAGCTCTAG |