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

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| **Genes**  | **GenBankTM accession no.** | **Sequence (5′-3′)** |
| *β-actin* | NM\_007393 | Forward: GTCCTCTCCCAAGTCCACACReverse: GGGAGACCAAAAGCCTTCAT |
| *Ago2* | NM\_153178 | Forward: GCACTTACCATCCATGAGGTACReverse: AAAGAGAAGGTCGGACGGACTGAT |
| *AMPKα1* | NM\_001355640 | Forward: GGGATCCATCAGCAACTATCGReverse: GGGAGGTCACGGATCAGG |
| *Ucp1* | NM\_009463 | Forward: AGGCTTCCAGTACCATTAGGT Reverse: CTGAGTGAGGCAAAGCTGATTT |
| *Cidea* | NM\_007702 | Forward: TGCTCTTCTGTATCGCCCAGTReverse: GCCGTGTTAAGGAATCTGCTG |
| *Cox8b* | NM\_007751 | Forward: GAACCATGAAGCCAACGACTReverse: GCGAAGTTCACAGTGGTTCC |
| *Elovl3* | NM\_007703 | Forward: CGTAGTCAGATTCTGGTCCTReverse: CCAGAAGAAGTGTTCCGTTG |
| *Ucp2* | NM\_011671 | Forward: CTGCAGATCCAAGGGGAGAGTReverse: CCTTGGTGTAGAACTGTTTGACAG |
| *Cpt1* | NM\_001039657 | Forward: CTCTCGACGAGCCAAACCCReverse: CCGCAATGATATACGAAACGC |
| *Cd36* | NM\_001159558 | Forward: GAACCACTGCTTTCAAAAACTGGReverse: TGCTGTTCTTTGCCACGTCA |
| *Ldlr* | NM\_010700 | Forward: TGACTCAGACGAACAAGGCTGReverse: CTAACTAAACACCAGACAGAGGC |
| *Fas* | NM\_004104 | Forward: GGTTACACTGTGCTAGGTGTTGReverse: TCCAGGCGCATGAGGCTCAGC |
| *ACC1* | NM\_133360 | Forward: AAGGGCTGCCTCTAATGReverse: GATGTAAGCGCCGAACT |
| *ACC2* | NM\_133904 | Forward: GCCAGAAGCCCCCAAGAAACReverse: CGACATGCTCGGCCTCATAG |
| *GPAT* | NM\_001079096 | Forward: GACGTCCGTAAGAGCATGTTTTGReverse: CTTCACTTTGTTGGTGGATTTGG |
| *Srebp1* | NM\_0011480 | Forward: TGAAGCCGGAGGTGGTAGAReverse: CTTCATCTGGCTGTCCTCAAAA |
| *ChREBP* | NM\_001359237 | Forward: GTATGTGGAGCGGAGGAAGAGReverse: ATGACGGCCTCGGGTTT |
| *S14* | NM\_009381 | Forward: TGAGAACGACGCTGCTGAAACReverse: AGGTGGGTAAGGATGTGATGGAG |
| *HMGCR* | NM\_008255 | Forward: CTCAGTTCAAATTCACAGGATGAAGTAAGReverse: ACGGCTTTCACGAGAAAGCTCTAG |