Supplementary Figure 1 Primer sequences

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| **Gene** | **Accession Number** | **Primer** | **Sequence 5’ to 3’** |
| **r*ßactin*** | NM­\_031144 | Forward  Reverse | cctctgaaccctaaggccaa  agcctggatggctacgtaca |
| **r*Per1*** | NM\_001034125 | Forward  Reverse | TGGTAAAGCACCAGGGACAAC  GAAGGACTTTGGCCTTGAATGTAC |
| **r*Per2*** | NM\_031678 | Forward  Reverse | AGCAGTCCCCTACAGCTTAACCT  CCGAGATGCGCCAGATGT |
| **r*Bmal1*** | NM\_024362 | Forward  Reverse | TCCACAGCACAGGTACTTGAA  TTGCAACGAGGCAGCTCAGAT |
| **r*Rev-erbα*** | NM\_001113422 | Forward  Reverse | acagctgacaccacccagatc  catgggcataggtgaagatttct |
| **r*PFKfb3*** | NM\_057135 | Forward  Reverse | AGGCAAGAAGTTCGCCAATG  GCGGTCTGGATGGTACTTTTCA |
| **r*Glucokinase*** | NM\_012565 | Forward  Reverse | CTCTGTCACCGACTGCGACAT  TGCGATTTATGACCCCAGCTA |
| **r*PEPCK*** | NM\_198780 | Forward  Reverse | CCCTTAAAAAAGCCTTTGGTCAA  CCGCTTCCGAAGGAGATGA |
| **r*Glycogen phosphorylase*** | NM\_022268 | Forward  Reverse | AGTCAGTCAGCTGTATATGAATCAA  AGATCGGAAGGCTCCATGTT |
| ***R11β-hsd2*** | NM\_017081 | Forward  Reverse | TTTTGGCAAGGAGACAGCTAAGA  ATCGGGCACGCAGTTCTAGA |
| ***rSNAT1*** | NM\_138832 | Forward  Reverse | GAAGTGGAGAACGGCCAGATAA  CCTGGAATATACTCGTCGCATTT |
| ***rHsp105*** | NM\_001011901 | Forward  Reverse | GTGTCTGCCTGTGCTTTTAACAA  TGCTCTACGAGCTTCTCGTCAA |
| ***rIRS2*** | NM\_001168633 | Forward  Reverse | CAAGAACCTGACCGGTGTATACC  GCCCACCTCGATGAAGAAGA |