

### Supplementary Table 1: Q-PCR primers.

Gene	Forward Primer	Reverse Primer
<i>Arbp</i>	5'-CACTGGTCTAGGACCCGAGAA-3'	5'-CACTGGTCTAGGACCCGAGAA-3'
<i>Stat3</i>	5'-CCTGGTGTGAACTACTCAGG-3'	5'-TATACTTTTTTACAAGGTCG-3'
<i>Glut4</i>	5'-GTGACTGGAACACTGGTCCTA-3'	5'-CCAGCCACGTTGCATTGTAG-3'
<i>pparg</i>	5'-TCGCTGATGCACTGCCTATG-3'	5'-GAGAGGTCCACAGAGCTGATT-3'
<i>ACC</i>	5'-TAATGGGCTGCTTCTGTGACTC-3'	5'-CTCAATATCGCCATCAGTCTTG-3'
<i>Fas</i>	5'-GGAGGTGGTGATAGCCGGTAT-3'	5'-TGGGTAATCCATAGAGCCCAG-3'
<i>Scd1</i>	5'-GCTGGAGTACGTCTGGAGGAA-3'	5'-TCCCGAAGAGGCAGGTGTAG-3'
<i>scd2</i>	5'-GCATTTGGGAGCCTTGTACG-3'	5'-AGCCGTGCCTTGTATGTTCTG-3'
<i>Srebp</i>	5'-GATGTGCGAACTGGACACAG-3'	5'-CATAGGGGGCGTCAAACAG-3'
<i>Adrb3</i>	5'-TAGCCATCAAACCTGTTGAGC-3'	5'-GGCCCTCTCTAGTTCCCAG-3'
<i>Cidea</i>	5'-TGACATTCATGGGATTGCAGAC-3'	5'-GGCCAGTTGTGATGACTAAGAC-3'
<i>Dio2</i>	5'-AATTATGCCTCGGAGAAGAACG-3'	5'-GGCAGTTGCCTAGTGAAAGGT-3'
<i>Elovl3</i>	5'-TTCTCACGCGGGTAAAAATGG-3'	5'-GAGCAACAGATAGACGACCAC-3'
<i>Ucp1</i>	5'-AGGCTTCCAGTACCATTAGGT-3'	5'-CTGAGTGAGGCAAAGCTGATTT-3'
<i>Acox1</i>	5'-TAACTTCCTCACTCGAAGCCA-3'	5'-AGTTCCATGACCCATCTCTGTC-3'
<i>Cpt1a</i>	5'-ACCAACGGGCTCATCTTCTAA-3'	5'-CAAAATGACCTAGCCTTCTATCGA-3'
<i>Ucp2</i>	5'-ACTTTCCTCTGGATAACGG-3'	5'-ACGGAGGCAAAGCTCATCTG-3'
<i>Gpx7</i>	5'-TCCGAGCAGGACTTCTACGAC-3'	5'-TCTCCCTGTTGGTGTCTGGTT-3'
<i>Prdx5</i>	5'-GGCTGTTCTAAGACCCACCTG-3'	5'-GGAGCCGAACCTTGCCTTC-3'
<i>Prdx6</i>	5'-CGCCAGAGTTTGCCAAGAG-3'	5'-TCCGTGGGTGTTTCACCATTG-3'
<i>Cox4</i>	5'-ATTGGCAAGAGAGCCATTTCTAC-3'	5'-CACGCCGATCAGCGTAAGT-3'
<i>Cox7a1</i>	5'-GCTCTGGTCCGGTCTTTTAGC-3'	5'-GTACTGGGAGGTCATTGTCCG-3'
<i>Cox7a2</i>	5'-GCTGGCCCTTCGTCAGATT-3'	5'-GGCATCCCATTATCCTCCTGAA-3'
<i>Cox8b</i>	5'-TGTGGGGATCTCAGCCATAGT-3'	5'-AGTGGGCTAAGACCCATCCTG-3'