Supplementary Methods

Primer for Sybr green and Taqman techniques

| Gene     | NCBI number       | Forward                          | Reverse                          |
|----------|-------------------|----------------------------------|----------------------------------|
| Cyclophilin | NM_00113038       | GCATACGGGTCTCTGGCACTCTTGCC       | ATGTGATCTTC TTGTGTGTCTTGCC       |
| FXR (q1-2) | NM_01163041.1     | ATGAATCTCAGTGGCACTCTCCCAT       | AATAAGCTTTCAAGAAA               |
| SHP      | NM_011850         | ACGATCCCTCTCAACCCAGA            | AGGTAGAGGGCCATGGAGAG            |
| BSEP     | NM_0210022        | GTCTGACTTCAGTTCTTGCC            | GAGAAATCCGGACACATCC             |
| NPY      | NM_0234562        | ACTCCCGTCTCCGAGACACATC          | TCTCAGGGCTGATGCTTCTTGG          |
| PGC1a    | NM_008904         | TACGAGACAGCGACACAGC            | TATCCCTCCTGAGCCCCC              |
| HSL      | NM_010791.5       | GTGGGCAAAAGGCAAAGATCAA          | CGTGGCTTGAGAAAGGGCA             |
| ATGL     | NM_025802.2       | CCACATTGGGGTGCGCCCTT            | AACGGCTCCGGGGGCTCTT            |
| DGAT1    | NM_010046.3       | GACGGCTACTGGGATCTGA            | TCACCACACCAATTCAGC             |
| UCP1     | NM_009463         | GGAGGTGGTGCGATGTCTTGG           | AGCATTGATGTCGCGGCTGGATAGCG     |
| UCP2     | NM_011671.5       | AGCCACATCCAGATGTGGAA            | TATCAGGTGCGAGCTGGTCCAA          |
| UCP3     | AF 03164          | CTCCTCCTGAGAATGGGCTC            | CTCCTCCTGAGAATGGGCTC            |
| VEGF     | NM_001025250.2    | AGTGGCAGACAGATGTGAATTGC         | ATGCTCTCCGTCCGCTTGA            |
| DIO2     | NM_010050.2       | TCGCGGAGATGGGAGGCGCA           | CGTGCACCACACTGGAATTGGAGGC       |

| Gene     | NCBI number       | Taqman assay ID   |
|----------|-------------------|------------------|
| TH       | NM_009377.1       | Mm0047557_m1     |
| Adrb3    | NM_013462.3       | Mm00260189_g1    |
| Adra1a   | NM_001271759.1, NM_001271760.1, NM_013461.4 | Mm0042668_m1 |
| Adra2a   | NM_007417.4       | Mm00845383_s1    |
| CRTC2    | NM_028881.2       | Mm01219960_m1    |

18s      TaqMan Ribosomal RNA Control Reagents (Thermofischer, 4308329)

FXR: Farnesoid X Receptor; SHP: Small Heterodimer Partner; BSEP: Bile Salt Export Pump; NPY: Neuropeptide Y; PGC1a: Peroxisome proliferator-activated receptor Gamma Coactivator 1-alpha; HSL: Hormone-Sensitive Lipase; ATGL: Adipose Triglyceride Lipase; DGAT1: Diacylglycerol O-Acyltransferase 1; UCP1: Uncoupling protein 1; UCP2: Uncoupling protein 2; UCP3: Uncoupling protein 3; VEGF: Vascular Endothelial Growth Factor; DIO2: Iodothyronine Deiodinase 2; TH: Tyrosine hydroxylase; Adrb3: β3-adrenergic receptor; Adra1a: α1-adrenergic receptor; Adra2a: α2-adrenergic receptor; CRTC2: CREB Regulated Transcription Coactivator 2.