**Supplementary Table S1: Primers for gene expression analysis.**

| Genes | | Sequence (5' > 3') | Annealing Temp (°C) | Amplicon size (bp) | References |
|---|---|---|---|---|---|
| *Rpl19* | F: | TGAAATCGCCAATGCCAACTC | 60 | 195 | NM_009078.2 |
| | R: | CAGGTCACCTTCTCAGGCAT | | | |
| *Pdc* | F: | GACCCAAACTACTACACCAAACC | 60 | 178 | NM_024458.2 |
| | R: | TTCCTTCTTGCTGGGTGGAAT | | | |
| *Nrtn* | F: | TGGTCGGAGGAGTCACCA | 60 | 104 | NM_008738.4 |
| | R: | CTGCAGATGAGCGACACCA | | | |
| *Metrn* | F: | CGAGGACCAACGTGCAGAAA | 60 | 128 | NM_133719.2 |
| | R: | TGGTCCCGTGGATCACAAAATC | | | |
| *Tma7* | F: | CCCCTGAAACAGCCCAAGAA | 60 | 187 | NM_183250.2 |
| | R: | CACCCCAGATGTGAGGAACA | | | |
| *Fstl5* | F: | AAGAAGCCGTTGGTGGATCA | 60 | 172 | NM_178673.4 |
| | R: | GGTGCTTGTCAGCGTTGAAG | | | |
| *Uba6* | F: | GGTGCAGGGAGTCAAAATGC | 60 | 163 | NM_172712.2 |
| | R: | GCCGGGCAAATCTTCATCTC | | | |
| *Slc38a2* | F: | GCGTATGGTCTGGCTGGAAA | 60 | 196 | NM_175121.4 |
| | R: | TGAGGACAAGGGACACCAGA | | | |
| *Zfhx4* | F: | TGAACCCTCTCGTTTTACTTGGA | 60 | 193 | NM_030708.2 |
| | R: | TGCCCATTTTCCTGCCTTGA | | | |
| *Ryr3* | F: | GAGACAGCAAAAGCAAGATGTCA | 60 | 121 | NM_001319156.1 |
| | R: | GCCACGATAAGGGACGTCTG | | | |
| *Pcsk1* | F: | CTATCAGCAGTGCCTCCCAG | 60 | 135 | NM_013628.3 |
| | R: | TGCAGTCATTGTGCAGGTCA | | | |
| *Fosl2* | F: | CCAATCCCTATCCACGCTCA | 60 | 172 | NM_008037.4 |
| | R: | CGGATTCGACGCTTCTCCT | | | |
| *Fat4* | F: | CATTGCTGGTTCGTGCAGAC | 60 | 158 | NM_183221.4 |
| | R: | AATAGCTGCCACCAGGGAAC | | | |
| *Papolb* | F: | CCCAAGAGTGAATCCTAGTGACA | 60 | 112 | NM_019943.2 |
| | R: | AATCATGACCATCCTGGTCGAAA | | | |
| *Mthfd2* | F: | ATGGCTTCAGTTTCCTTGTTGTC | 60 | 139 | NM_008638.2 |
| | R: | GGGCCAGTTTCCTTCCAGAAA | | | |
| *Actb* | F: | GCTCCGGCATGTGCAAAG | 60 | 100 | NM_007393.5 |
| | R: | CCCACCATCACACCCTGG | | | |