**Table S1: Morpholino and primer sequences.**

**A:** Morpholino sequences. Amount of morpholino injected is based on the assumption that 4 nl of MO is injected per embryo.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene**  | **Morpholino sequence (5’-3’)** | **Target** | **Amount Injected** |  |  |
| *atf6* | acattaaattcgacgacattgtgcc | ATG | 16.85 ng (0.5 mM) |  |  |
| *atf6* | CTAGAACGTGTATCTTACCCCACTC | intron-exon | 1.67-16.67 ng (0.05-0.5 mM) |  |  |
| *fasn* | GCGGTGGAAACCAGGTATGGCTGAC | intron-exon | 1.71-3.43 ng (0.05-0.1 mM) |  |  |
| *scap* | CCCGATACTGCAAGAAGATT | intron-exon | 2.71-13.6 ng (0.1-0.5 mM) |  |  |

**B:** Primer sequences used for conventional and quantitative, real-time PCR.

|  |  |  |
| --- | --- | --- |
| **Gene name** | **Forward primer** | **Reverse primer** |
| *acaca/acc1* | GCAAGTGTGGTTCCCTGATT | TCATGAAGGTCAGCGAACTG |
| *atf4* | TTAGCGATTGCTCCGATAGC | GCTGCGGTTTTATTCTGCTC |
| *atf6* | CTGTGGTGAAACCTCCACCT | CATGGTGACCACAGGAGATG |
| *bip/hspa5* | atcagatctggccaaaatgc | ccacgtatgacggagtgatg |
| *calret* | CAGTGTGCTTTATTTCTGCACTG | TAAAACCGAGCATCTTGACTTGT |
| *canx* | catctctgccctcctactgc | tccacaaactcctccaggtc |
| *cherry* | CCTGTCCCCTCAGTTCATGT | CCCATGGTCTTCTTCTGCAT |
| *chop* | atatactgggctccgacacg | gatgaggtgttctccgtggt |
| *derl1* | TTTCGACTTGGTGACGACTG | CAGAGCCCTCGTCACTTTTC |
| *dgat2* | catggcatcttgtgttttgg | tcggtttactgggcagattc |
| *dnajc3* | tcccatggatcctgagagtc | ctcctgtgtgtgaggggtct |
| *edem1* | gacagcagaaaccctcaagc | catggccctcatcttgactt |
| *fasn (zf)* | GAGAAAGCTTGCCAAACAGG | GAGGGTCTTGCAGGAGACAG |
| *FASN (human)**g6pca.1* | agtacacacccaaggccaagtcacagcgttgctttcaatc | gtggatgatgctgatgatggccacagatcacttggtgtgg |
| *gck* | gttggtgatttcctggcact | agccggcaatgtaatcaaac |
| *got1**gpd1b**grp94/hsp90b1* | aaccacaatgccgttttctcaatgcaaacgcaaaacttccagcaagaccgagaccgtaga | atctgcttccattggtcctgcggacttgctgtgcagaatactcccaatcccacacagtct |
| *hmgcra* | CTGAGGCTCTGGTGGACGTG | cgccGCAGCTACGATGTTGGcG |
| *hmgcs1* | ctcactcgtgtggacgagaa | gatacggggcatcttcttga |
| *ire1a* | TGACGTGGTGGAAGTTGGTA | ACGGATCACATTGGGATGTT |
| *mvk* | cacacttttgcgaccagaga | cagcagcaatgagcatctgt |
| *perk* | TGGGCTCTGAAGAGTTCGAT | TGTGAGCCTTCTCCGTCTTT |
| *pck1* | aactcactgctggggaagaa  | gtctcccacacactccacct |
| *pck2* | acagactggcatgggaaatc | acacaccatgacgccagtta |
| *pklr* | tcctggagcatctgtgtctg  | ctgatgagtgccgtgagaga |
| *rpp0* | ctgaacatctcgcccttctc | tagccgatctgcagacacac |
| *slc2a2**srebp1* | gcatttcaaggcgcttactcactcttctggtgtggctgct | taagggaaaaccatgccaacgagccttcagacacgtcctc |
| *srebp2* | cactcacacaagcacacacg | acctggttctggatgaatcg |
| *tecrb**xbp1* | ttcctgccccaattacacatGGGTTGGATACCTTGGAAA | ctacaggatgaagggcaggaAGGGCCAGGGCTGTGAGTA |