

Supplementary Table S2.

Primers.

| Gene | Forward (5' a 3') | Reverse (3' a 5') |
|--|-------------------------|-----------------------|
| Constitutive | | |
| <i>Tbp</i> | CAAACCTCTGACCACTGCACC | CTGCGGTACAATTCCAGAGC |
| Inflammation | | |
| <i>Il1b</i> | TGTAATGAAAGACGGCACACC | TCTTCTTTGGGTATTGCTTGG |
| <i>Il6</i> | TTCTTGGGACTGATGCTGGT | CAGGTCTGTTGGGAGTGGTA |
| <i>Sirt1</i> | TCCACGGTGCTGAGGTATAC | GCCACTGTCACTGTTACTGC |
| <i>Tnfa</i> | CCACCACGCTCTTCTGTCTA | CTGATGAGAGGGAGGCCATT |
| ER stress | | |
| <i>Atf4</i> | CCGAGATGAGCTTCTGAAC | ACCCATGAGGTTTCAAGTGC |
| <i>Chop</i> | CTGCCTTTCACCTTGGAGAC | CGTTTCCTGGGGATGAGATA |
| <i>Gadd45</i> | GCGAGAACGACATCAACATC | GTTTCGTCACCAGCACACAGT |
| Oxidative stress | | |
| <i>Cat</i> | ACATGGTCTGGGACTTCTGG | CAAGTTTTTGGATGCCCTGGT |
| <i>Gpx</i> | GTCCACCGTGTATGCCTTCT | TCTGCAGATCGTTCATCTCG |
| <i>Sod</i> | AACCATCCACTTCGAGCAGA | GGTCTCCAACATGCCTCTCT |
| Beta-cell differentiation, maturation, and glucose metabolism | | |
| <i>Arx</i> | CACCCTAAGCCTACCCAGAG | TTGGCCCATACGATGCAATG |
| <i>Mafa</i> | CTTCAGCAAGGAGGAGGTCA | GCACTTCTCGCTCTCCAGAA |
| <i>Neurod1</i> | GGTGCATCCCTACTCCTACC | GGCTTTCAAAGAAGGGCTCC |
| <i>Pax4</i> | GATCCAACACCAGCTTTGCA | GTTGAGTCCAGTGCAAGCTC |
| <i>Pax6</i> | CGGAGTGAATCAGCTTGGTG | CATGGGTCTGCAGAATTCCGG |
| <i>Pdx1</i> | AGGAAAACAAGAGGACCCGT | GTTCAACATCACTGCCAGCT |
| <i>Ppara</i> | TCGGACTCGGTCTTCTTGAT | TCTTCCCAAAGCTCCTTCAA |
| <i>Pparg</i> | GCTGGTCGATATCACTGGAGATC | GCAAAGCCAGAGTTCCTGAC |

Abbreviations: *Arx*, aristaless related homeobox; *Atf4*, Activating transcription factor 4; *Cat*, catalase; *Chop*, DNA-damage inducible transcript 3 ; FW, Forward; *Gadd45*, growth arrest and DNA-damage-inducible 45; ER, endoplasmic reticulum; *Gpx*, glutathione peroxidase; *Il1b*, interleukin 1 beta; *Il6*, interleukin 6; *Mafa*, v-maf musculoaponeurotic fibrosarcoma oncogene family; *Neurod1*, neurogenic differentiation 1; *Pax4*, paired box 4; *Pax6*, paired box 6; *Pdx 1*, Pancreatic duodenal homeobox 1; *Ppara*, Peroxisome Proliferator-activated Receptor alpha; *Pparg*, Peroxisome Proliferator-activated Receptor gamma; RV, reverse; *Sirt1*, Sirtuin 1; *Sod*, Superoxide dismutase; *Tbp*, TATA-box Binding Protein; *Tnfa*, Tumor Necrosis Factor alfa.