**S2 Table. Taqman probe sequence used for real time PCR**

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| **SN** | **Gene name** | **NCBI gene references** | **Applied biosystem assay** |
| **Housekeepers gene** | | | |
| 1. | HPRT1,hypoxanthine phosphoribosyltrsnsferase1 | NM\_012583.2 | Rn01527840\_m1 |
| 2. | YWHAZ, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide | NM\_013011.3 | Rn00755072\_m1 |
| 3. | ACTB, actin, beta | NM\_031144.2 | Rn00667869\_m1 |
| 4. | B2M, beta-2 microglobulin | NM\_012512.2 | Rn00560865\_m1 |
| 5. | PPIA, peptidylprolyl isomerase A (cyclophilin A) | NM\_017101.1 | Rn00690933\_m1 |
| 6. | GAPDH, glyceraldehyde-3-phosphate dehydrogenase | NM\_017008.3 | Rn01775763\_g1 |
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| **Gene of interest** | | | |
| 1 | GLUT4 /SLC2A4, solute carrier family 2 (facilitated glucose transporter), member 4 | NM\_012751.1 | Rn01752377\_m1 |
| 2. | MYOD1, myogenic differentiation 1 | NM\_0176079.1 | Rn01457527\_g1 |
| 3. | SIRT3, sirtuin 3 | NM\_001106313.2 | Rn01501410\_m1 |
| 4. | IL6, interleukin 6 | NM\_012589.1 | Rn01410330\_m1 |
| 5. | PGC1α/Ppargc1a, peroxisome proliferative activated receptor, gamma, coactivator 1 alpha | NM\_031347.1 | Rn00580241\_m1 |
| 6. | UCP3, uncoupling protein 3 (mitochondrial, proton carrier) | NM\_013167.2 | Rn00565874\_m1 |
| 7. | TNFα, tumor necrosis factor alpha | NM\_012675.3 | Rn99999017\_m1 |