**S2 Table: Primer Sequences of Genes**

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| Name | Sequences (5'-3') |
| *GK-F* | TAAAGATGTTGCCCACCTACG |
| *GK-R* | GGAATACATCTGGTGTTTCGTCT |
| *G-6-p-F* | ATCAATCTCCTCTGGGTGGC |
| *G-6-p-R* | TGTTGCTGTAGTAGTCGGTGTCC |
| *GLUT-2-F* | TGGCTCGGGGACAAACTT |
| *GLUT-2-R* | AGCAATGATGAGGGCGTGT |
| *IR-F* | TGGGCTTCGGGAGAGGA |
| *IR-R* | GGATGTCCATACCAGGGCAC |
| *IRS1-F* | CAAGGAGGTCTGGCAGGTTA |
| *IRS1-R* | CCCACCTCGATGAAGAAGAA  |
| *PEPCK-F* | GAGAAAGCATTCAACGCCAGG |
| *PEPCK-R* | CACAGATATGCCCATCCGAGTC |
| *GADPH-F* | ACCACAGTCCATGCCATCAC |
| *GADPH-R* | TCCACCACCCTGTTGCTGTA |