**Supplementary Table 1**

Primer sequences and function used in this study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Primer name** | **Primer sequence (5’ to 3’)** | **GenBank number** | **Reference** |
| **RNAi** |  |  |  |
| dsCHH-F | CTGCCTTCCGTATGGTATG | HM748790 | (37) |
| dsCHH-R | CCGACCATCTGGACAGTTAG |
| dsCHH(T7)-F | TAATACGACTCACTATAGGGCTGCCTT CCGTATGGTATG | HM748790 | (37) |
| dsCHH(T7)-R | TAATACGACTCACTATAGGGCCGACCATCTGGACAGTTAG |
| dsGFP-F | ACGGCAAGCTGACCCTGAAG | SRR346404 | (37) |
| dsGFP-R | GACTGGGTGCTCAGGTAGTGG |
| dsGFP(T7)-F | TAATACGACTCACTATAGGACGGCAAG CTGACCCTGAAG | SRR346404 | (37) |
| dsGFP(T7)-R | TAATACGACTCACTATAGGGACTGGGTGCTCAGGTAGTGG |
| **qPCR** |  |  |  |
| CHH-qF | CTGCCTTCCGTATGGTATGGT | HM748790 | (37) |
| CHH-qR | CGTTGAAACAGTCGTCACACAC |
| GC-qF | TGTTCATCGGCCATCGTTCT | SRR346404 | (37) |
| GC-qR | GGCGGGTCCTTGTTGTACTT |
| DA1R-qF | CGGCTTCCATTGTCAACCTC | QCYY01004016 | (37) |
| DA1R-qR | TCATCCAGCGACCGTATCTCA |
| DA4R-qF | GGATTTCTTGAGGTCCCACAC | SRR346404 | (37) |
| DA4R-qR | ATCTTCTCGTTGATGTTCGGA |
| PKA-qF | TAGCCAAAACGTATCGAGTGT | SRR346404 | (25) |
| PKA-qR | TCTCACAGCGAAGTGGTCC |
| PKC-qF | AGTTTATCCCCCGATTCTT | SRR346404 | (25) |
| PKC-qR | GAGGCATAGGTCTGAGTCTT |
| PKG-qF | ATGATGGAGGCTTGTCTT | SRR346404 | (25) |
| PKG-qR | CGAGTCCAGAAGCAGATT |
| AMPKα-qF | CCTGCTCCTCCTACTCCATC | KP272116 |  |
| AMPKα-qR | TTTCACGCAAAGGTGCTATT |
| AMPKβ-qF | AAGACTTCGTTGCCATTGTG | KP272117 |  |
| AMPKβ-qR | GTTATTATCACAAGCAGCCTCA |
| AMPKγ-qF | CTCTGGGACTCCACTCGG | KP272118 |  |
| AMPKγ-qR | CAGGTAGGCGGTGAATCTTA |
| CREB-qF | AGACTGCTGGCTGGAATAACT | MF535290 | (37) |
| CREB-qR | AACAAGAATCCTCGCGTAAA |
| GLUT1-qF | CGTGCATCAAGTCATGTTG | KM201335 | (51) |
| GLUT1-qR | CATGCGCAGTGCTGATGA |
| GLUT2-qF | TCTAGTGAGTCTCGGAGTC | KT272020 | (35) |
| GLUT2-qR | GGTCCGTAGCCGATACTG |
| HK-qF | ATCGGCAAGTTAGATACGC | EF102106 |  |
| HK-qR | AGGACACCACGGTAGGAA |
| PK-qF | ATCCTTGATGGTGCTGAC | EF102105 |  |
| PK-qR | TGAAGAGTTGCTTGTGCC |
| PFK-qF | AGAGGACGGGGAAGTTTTACAG | PRJNA660490 |  |
| PFK-qR | GTTCTTGCCTGGGTTCAAATAG |
| CS-qF | AAAGAATACGGTAACACCAAAGT | XM027367291 |  |
| CS-qR | ATGGAGTAACCTCGGAACCTGAT |
| PEPCK-qF | AAGACCAGTGATGGAGGAGTG | FJ441189 |  |
| PEPCK-qR | GGGAGTTGGGATGAGCAG |
| FBP-qF | TGTGTCGGAAGAAAACAAAACT | KP057246 |  |
| FBP-qR | CTATGGAGACGAGGCAATCAAT |
| G6P-qF | CTTATGAATCGTGGGTGGTGC | PRJNA660490 |  |
| G6P-qR | CAATAGGGTCGGTCTCCTCTGA |
| β-actin-qF | TGGACTTCGAGCAGGAGATG | AF300705 | (37) |
| β-actin-qR | GGAATGAGGGCTGGAACAGG |
| EF1α-qF | GTATTGGAACAGTGCCCGTG | GU136229 | (37) |
| EF1α-qR | ACCAGGGACAGCCTCAGTAAG |