**Table S2** Primers used in this study

|  |  |  |
| --- | --- | --- |
| Primers | 5’ to 3’ primer sequences | Purpose |
| K+PPGK1-R | TTAGAAAAACTCATCGAGC | Amplification of *KanMX4* and *PGK1* |
| PPGK1-F | CAGTTTCATTTGATGCTCGATGAGTTTTTCTAA ACTGTAATTGCTTTTAGTTG |
| K+CDC42-F | TTTTTAAAAAAAGTTGCATTATTTCTATCAACTGTTGTAGCTACGTTACACCTATGGGTAAGGAAAAGACTCA | Amplification of *KanMX4* and *PGK1* |
| PPGK1+CDC42-R | TTTGTGGAAGAGCTAATACGTTTATTTCTTGTTTTATAAGTTTTGCTTCTCTTGTTTTATATTTGTTGTAAA |
| K+KIC1-F | GTTAAGAGAGGTTTACATTACTACAGAGCTAACCCGTGTTGCATGATATCATATGGGTAAGGAAAAGACTCA | Amplification of *KanMX4* and *PGK1* |
| PPGK1+KIC1-R | TACTGCCTGTTCTCTATACGTGTTTTGCTTGCCAGTCGATGGCGCCCAAATTTGTTTTATATTTGTTGTAAA |
| K-F | ATGGGTAAGGAAAAGACTCA | Validation |
| K-R | TTAGAAAAACTCATCGAGCAT | Validation |
| RT-CDC42-F | CTGGTCGTCGGTACGCAGATTG | For RT-qPCR |
| RT-CDC42-R | GGCGGCCACGATAGCTTCATC | For RT-qPCR |
| RT-KIC1-F | ACGTGAGCACCGCAAGTCATTC | For RT-qPCR |
| RT-KIC1-R | TGCGAGGTTGTTGTGGCATAGC | For RT-qPCR |
| RT-ALG9-F | CACCAGACACTCTCTACGCT | For RT-qPCR |
| RT-ALG9-R | GGTTGTTGAGTGAAAACGGC | For RT-qPCR |

Note: The underlined sequences indicated homologous arms. K is short for *KanMX4*.

**Continued Table S2** Primers used in this study

|  |  |  |
| --- | --- | --- |
| Primers | 5’ to 3’ primer sequences | Target genes |
| RT-MSN2-F | GCTGGGGTTACGAAGGAAAGAAGG | *MSN2* |
| RT-MSN2-R | TGGGACAAATGTGACAGTGGAACG |  |
| RT-MSN4-F | TCTCAAGTCATCTCCGGCTCAGG | *MSN4* |
| RT-MSN4-R | TTTAGCGGCAGCAGAGGCATTATC |  |
| RT-HAA1-F | GTGTGGGCGAAGTTAGCGTTCC | *HAA1* |
| RT-HAA1-R | TGCAGCGGTTGCGGTTGTAC |  |
| RT-STB5-F | CGAAGACATCACTGTGCCACTACC | *STB5* |
| RT-STB5-R | CGTCTAGCTCCTTGCGTAATCCAC |  |
| RT-YAP1-F | CGCTTGATAACGACAACGACAACG | *YAP1* |
| RT-YAP1-R | GGCATAGGAGCCGAATGACTTGG |  |
| RT-SOD1-F | AGCCTGTGGTGTCATTGGT | *SOD1* |
| RT-SOD1-R | GATCGACAAGGAACACATGGG |  |
| RT-CTT1-F | GTTGTTTGCCACGCTTGTAA | *CTT1* |
| RT-CTT1-R | CAAGGAACTCCCAAGCATTC |  |
| RT-HXK1-F | TGGGTGAATTGTTGCGTCTA | *HXK1* |
| RT-HXK1-R | CGATTCTTGCTGGGTAGGAG |  |
| RT-HSP30-F | TTGGACTGGTGTTCAAGCTG | *HSP30* |
| RT-HSP30-R | CAGGACAAGAACCAGGCAAT |  |
| RT-GRE1-F | CAGTTTGGCGGTAACGACTT | *GRE1* |
| RT-GRE1-R | CTTCATCGTCGTCCAACTGA |  |