|  |  |  |
| --- | --- | --- |
| **Gene**  | **Forward primer (5’-3’)** | **Reverse primer (5’-3’)** |
| Primers for qPCR analysis |
| *OsActin1* | GACCTTGCTGGGCGTGAT | GTCATAGTCCAGGGCGATGT |
| *OsPRX2* | ACTGCTTTGTCGAGGGTTGT | CGGAGTCGTTGGAGAAGGTC |
| *OsPRX4* | TTGGCACGCATTGATTACCTG | CGATGCGTCGCAACCTTGG |
| *OsPRX9* | TCTTGCTTTCCCTGCTCACC | GCGTCGCATCCCTGAACAA |
| *OsPRX72* | GTGATCGACGAAATCAAGGCG | CCGATGGTGTGGCTACCGAG |
| *OsPRX112* | CAAGGTGAACTCCTCATACGC | GACAGAAGAAGCCGAAGCCA |
| *OsPRX-A2* | GCCGACAATAACCTCCCCAG | AACGTGTGCGCCCCTGAG |
| *OsABSRP5* | CGCCTTCGCCCTGTATGAGAA | CCTCCGTGATCTTGTGCCTG |
| *OsQHB* | TAGCTTTCAAGCAGTTCTACTGC | GAACAGCTCCGTCAGGACCT |
| Primers for CRISPR/Cas9-mediated gene edition of *OsQHB* |
| *OsQHB-Cas9* | GGCAGGAGCAGGTGAAGGTCCTGA | AAACTCAGGACCTTCACCTGCTCC |
| Primers for overexpression vector |
| *OsQHB-OE* | CCATGGATGGAGGCTCTTAGCGGGCGAG (NcoI) | ACTAGTGAGGCCGAAGCTGCAAAGC (SpeI) |
| Primers for *OsQHB-GFP* vector |
| *OsQHB-GFP* | TCCGGAGCTAGCTCTAGAATGGAGGCTCTTAGCGGG | CTTGCTCACCATGGATCCGAGGCCGAAGCTGCAAAG |

 **Supplemental Table 3:** Primers used in this study.