**Supplementary Table S1.** Primer used for qRT-PCR analysis

| Primer name | Sequence |
|---|---|
| LOC_Os01g56880-F | ATCAAGAACAGGACGCACGC |
| LOC_Os01g56880-R | GAACCACATGGAGTCAGCCG |
| LOC_Os03g51000-F | TCGCGGTTATCTCAGGTGGT |
| LOC_Os03g51000-R | CGGCAGCTGTCAACATTCCT |
| LOC_Os08g33710-F | GTCACTGACACGTGGGTTCG |
| LOC_Os08g33710-R | TCGTCGACGTTTTCCCGAAT |
| LOC_Os06g18790-F | CTCGCGAGCGAGAAGAAGG |
| LOC_Os06g18790-R | GAGCTGGTCGTTGCTCACG |
| LOC_Os02g47600-F | ACGCACACTTTGTGAGGACG |
| LOC_Os02g47600-R | CACGAGCTCGCAGGAAACAT |
| LOC_Os07g03710-F | TGTACTGTCAGCCGTATTTGCT |
| LOC_Os07g03710-R | CCATGCATGTAACCACGAAGGA |
| LOC_Os03g29240-F | GGGCGACTCATGGTCCTACA |
| LOC_Os03g29240-R | ACGTCTCCCTCGCACACATA |
| LOC_Os07g43670-F | TTCCAGGTGTACCAGTGCGT |
| LOC_Os07g43670-R | TAGAACGTGGGCAGCTTGAC |
| LOC_Os11g14950-F | TGTGAGGTTGCACGAACTGG |
| LOC_Os11g14950-R | AGGAAGGGAAAACCCACGGA |
| LOC_Os02g33850-F | GGGCATCACGTGCTGAAGAA |
| LOC_Os02g33850-R | ATCGGGGACACCTGGAACAT |
| LOC_Os07g36490-F | AGAAGCCGGTGAGGGCATAA |
| LOC_Os07g36490-R | AGTTGATGCTGCTGGTTGGG |
| LOC_Os10g11500-F | GCACCTTCCAAGGTCAGCCT |
| LOC_Os10g11500-R | GTAGTCCTGCGGCGTGTTCT |
| LOC_Os02g40710-F | GCGGCCAACTACATCTGCAA |
| LOC_Os02g40710-R | CACGAGGTAGGCCGAGAAGA |
| LOC_Os01g52010-F | TCGCGAAACTCCACCAAAGG |
| LOC_Os01g52010-R | CGTCAGGTGAGGCCAGTAGT |
| LOC_Os04g41970-F | CCCGTCATCATCGCCAAGTC |
| LOC_Os04g41970-R | TGATGCCGTTGTTCTTCGGG |
| LOC_Os01g16010-F | ACTGTCAACCGCGAGAGGAA |
| LOC_Os01g16010-R | TCTGACACAGCTCCTGCCAT |
| cpDNA-F | GTGTCTACGCGGTGGACTTG |
| cpDNA-R | ACAAAACGGTCCCTCCAACG |
| LOC_Os02g05880-F | CGGGTACATTGAGCTGCCTG |
| LOC_Os02g05880-R | CTTTCTTGACGCGGAGGCAT |
| LOC_Os03g40670-F | CGTCAAATGGTCAGACGGGA |
| LOC_Os03g40670-R | ATGAGTGACGATGGTGCGAA |
| LOC_Os03g05640-F | AGCTCTTCTTCGGATGGCTC |
| LOC_Os03g05640-R | TGGCAATCACGCTCTTGGG |
| LOC_Os10g30790-F | CTGCTCACCTACTACTGGCG |

| | |
|---|---|
| LOC_Os10g30790-R | ACCATCTGCTCCAGCTTGTC |
| LOC_Os12g44020-F | CTTCGATCACACCGTCCGTA |
| LOC_Os12g44020-R | ATGAGGCCGAACTTGAAGGG |
| LOC_Os01g47070-F | CCTGCAACTCCGGCCTATAC |
| LOC_Os01g47070-R | GAGGTTGAGGACAGGGGTCT |
| LOC_Os12g09620-F | GTGCTCCTGGTTGATTGGCT |
| LOC_Os12g09620-R | CAAACAAACAGCATCTGCATCC |
| LOC_Os05g33400-F | ACATGATGGAGGACAACCTGC |
| LOC_Os05g33400-R | TCGTTTGCCGGAACAGGAG |
| LOC_Os10g39300-F | TTCAGGAAGCAGGAGAGTGC |
| LOC_Os10g39300-R | TTCACCAACATGAGCAGCGT |
| LOC_Os01g25484-F | GACATCATCCCGGTGTGCAA |
| LOC_Os01g25484-R | AGCCTCCATTCCAAGTTCGT |
| LOC_Os03g52860-F | CAACCTTCTCTACGTGGTGGAC |
| LOC_Os03g52860-R | ATGAAGTTGTCGTCGAGGCTAT |
| LOC_Os05g15770-F | GGGGCATCATGGTCTGGAAC |
| LOC_Os05g15770-R | CTGATCCAGGAGACCAGGCT |
| PHR1-F | TCTGCAGAAGTACCGCACAG |
| PHR1-R | ATGCTCGCTTTCAGGTCCAA |
| PHR2-F | CAGCTGCGCAATCATCTGTC |
| PHR2-R | GAGGGCGAGGGTATAGCAAC |
| PHO1;1-F | AGCAATTTGAAGGGCAGCTTG |
| PHO1;1-R | ATCATGAGGTGTTGAGGTGGT |
| PHO1;2-F | TACCTTAAGCCACAGCAGCC |
| PHO1;2-R | TAGGCTGAGTTCCCAGTGGA |
| PHO1;3-F | ATGGCTTCAGACCGTCATCC |
| PHO1;3-R | GGTGCTCGTTTTCCAACCTG |
| NAT-PHO1;1-F | GCCCTTCAAATTGCTTCGAGAACT |
| NAT-PHO1;1-R | TCGCAACACCTGCAAAGATAGAGA |
| NAT-PHO1;3-F | GTGCCAACAGCAGAACAGATACAGT |
| NAT-PHO1;3-R | TTTTCAGCAATTTTCATGGTTACGG |
| NAT-PHO1;2-F | GGCTACTAGCTTGGTGCTCTTCTCC |
| NAT-PHO1;2-R | CAAGGCCACTATCTGTCCCTGTATG |
| OsActin 1-F | ACATCGCCCTGGACTATGACCA |
| OsActin 1-R | GTCGTACTCAGCCTTGGCAAT |