**Table S1.** The primer sequences used for qRT-PCR verification

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| --- | --- | --- | --- |
| **Gene ID** | **Function Annotation** | **Forward primer** | **Reverse Primer** |
| Os01g0239000 | PHR1 | 5'-CGCAAGGTGAAGGTGGACT-3' | 5'-CGATGTTGTGGCGAGTAG-3' |
| Os07g0614700 | SPX | 5'-CCCATCCAATGACCACC-3' | 5'-TTGAAAGCCAAAACACG-3' |
| Os02g0735200 | OsGS1.1 | 5'-CAAGTCTTTTGGGCGTGATATTGTTGAC-3' | 5'-CACCTGATCACCGGCAGAAATGCCGACA-3' |
| Os03g0223400 | OsGS1.2 | 5'-AAAGGCGTTCGGCCGCGACATCGTGGAC-3' | 5'-CACTTGGTCAGCAGCGGCGATGCCAACT-3' |