**TABLE S1** Primers of *OsHAKs* used in the qRT-PCR analyses

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene ID or name |  | Primer sequences（5’ to 3’) | Amplicon (bp) | PCR efficiency | Origin |
| Os07g0669650 | Forward | ATTGCCAAGTTCATCCAAATGG | 138 | 1.837 | Lu et al., 2018 |
| Reverse | CTCGTTATTGGAGTCCCTCATC |
| Os07g0669675 | Forward | GATACACGCAAGACCTGAAATC | 112 |  |
| Reverse | ACACGACAGTTATTGGAAATGC |
| Os04g0401700 | Forward | CACACCTCTAAGAAGTACGAGG | 135 | 1.862 |
| Reverse | CACCACACAGATCCCGTAG |
| Os08g0466200 | Forward | ACTACCGGCCCTCCAACTT | 202 | 1.860 |
| Reverse | AGTACATATGCATCGCTCTCAA |
| Reverse | ATTATGCTGCTTTCGATGAACC |