**Table S1.** Ks, Ka, and Ka/Ks ratios of the eight gene pairs.

|  |  |  |  |
| --- | --- | --- | --- |
| Gene pairs | Ka value | Ks value | Ka/Ks ratio |
| *HPAP2\_1*&*HPAP2\_18* | 1.0150 | 0.9436 | 1.0757 |
| *HPAP2\_2*&*HPAP2\_9* | 5.2324 | 1.7027 | 3.0730 |
| *HPAP2\_3*&*HPAP2\_13* | 0.2209 | 0.2903 | 0.7608 |
| *HPAP2\_4*&*HPAP2\_6* | 0.9844 | 1.0534 | 0.9345 |
| *HPAP2\_7*&*HPAP2\_21* | 0.0016 | 0.0229 | 0.0683 |
| *HPAP2\_8*&*HPAP2\_12* | 0.0050 | 0.0382 | 0.1319 |
| *HPAP2\_14*&*HPAP2\_16* | 1.0140 | 0.9471 | 1.0707 |
| *HPAP2\_19*&*HPAP2\_20* | 0.9831 | 1.0678 | 0.9208 |

**Table S2.** Primers used for real-time fluorescent quantitative PCR of stress response genes.

|  |  |
| --- | --- |
| Primer name | Primer sequences (5’-3’) |
| *HpAP2\_5*-F | CGGGAAAGATGGAGCATTGT |
| *HpAP2\_5*-R | AAACCCAAGAGCCTCCTGAC |
| *HpAP2\_11*-F | GGCTTATGACAAAGCTGCGA |
| *HpAP2\_11*-R | AAGCTCACCGGAAGACGTAA |
| *HpAP2\_12*-F | GCCAGGACAAATGCCTCAAT |
| *HpAP2\_12*-R | AAGCAAACCTGGTGACTCCT |
| *HpAP2\_17*-F | TGGGTTGTTCGACAACGAAG |
| *HpAP2\_17*-R | GAGGTTGCAACCTGAGGCAA |
| *HpAP2\_18*-F | AGGAAGTCCATCGACACGTT |
| *HpAP2\_18*-R | TGCAGCTGTTGTCCCATAGA |
| *ACT2*-F | AGGAGTCCCTCCACGACCAC |
| *ACT2*-R | GCCGTTGTGTACCGGGTAGG |