**Table S1** The gene primers used for quantitative real-time RT-PCR experiments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Genes | AGI number | NCBI accession | Forward primers (5ʹ-3ʹ) | Reverse primers (5ʹ-3ʹ) |
| *GhPYR1-1A**GhPYR1-1D**GhPYR1-2A**GhPYR1-2D**GhPYR1-3A**GhPYR1-3D**GhPYL2-1A**GhPYL2-1D**GhPYL2-2A**GhPYL2-2D**GhPYL2-3A**GhPYL2-3D**GhPYL2-4A**GhPYL2-4D**GhPYL4-1A**GhPYL4-1D**GhPYL4-2A**GhPYL4-2D**GhPYL4-3A**GhPYL4-3D**GhPYL6-1A**GhPYL6-1D**GhPYL6-2A**GhPYL6-2D**GhPYL9-1A**GhPYL9-1D**GhPYL9-2A**GhPYL9-2D**GhPYL9-3A**GhPYL9-3D**GhPYL9-4D**GhPYL9-5A**GhPYL9-5D**GhPYL9-6A**GhPYL9-6D**GhPYL9-7A**GhPYL9-7D**GhPYL9-8A**GhPYL11A**GhPYL12D**GhUBQ7* | Gh\_A03G0015Gh\_D03G1860Gh\_A11G0270Gh\_D11G0290Gh\_A12G1895Gh\_D12G2076Gh\_A05G0336Gh\_D05G0441Gh\_A08G2221Gh\_D08G2587Gh\_A07G2326Gh\_D07G0193Gh\_A10G0677Gh\_D10G0710Gh\_A01G1990Gh\_D09G1585Gh\_A09G2421Gh\_D01G2250Gh\_A05G2630Gh\_D05G2920Gh\_A10G2142Gh\_D10G2388Gh\_A06G1418Gh\_D06G1764Gh\_A08G1117Gh\_D11G1013Gh\_A11G0870Gh\_D08G1399Gh\_A11G0224Gh\_D04G0019Gh\_D11G0238Gh\_A12G2127Gh\_D12G2306Gh\_A09G1646Gh\_D09G1740Gh\_A05G3585Gh\_D12G2694Gh\_A12G2278Gh\_A05G1297Gh\_D05G1468Gh\_A11G0969 | Pr032826479Pr032826480Pr032826481Pr032826482Pr032826483Pr032826484Pr032826447Pr032826448Pr032826449Pr032826450Pr032826451Pr032826452Pr032826453Pr032826454Pr032826455Pr032826456Pr032826457Pr032826458Pr032826459Pr032826460Pr032826461Pr032826462Pr032826463Pr032826464Pr032826465Pr032826466Pr032826467Pr032826468Pr032826469Pr032826470Pr032826471Pr032826472Pr032826473Pr032826474Pr032826475Pr032826476Pr032826477Pr032826478Pr032826445Pr032826446Pr032826524 | GGGTTTAGCATCATCGGTGGGGACTGTTGTTCTGGAATCATCTGGACGATGAGCGAGAGGTTATTCTGGACGATGAGCGAGCAACTACTCAGTTGGTCCCGCACCTACTCAGATGGTCCCGAAGTACGGAAAGGCTGGAGTGGCTGAGAAACTACAGGTCGCCCTCACGGCCTAACCATTTCTTCATCGTCAACAACAGTTCATCAAGAGCTGTAACATCTCGTCAAGAGCTGCAACATCACTCAGCACCCAAAGCAACAATGACGATGAGCATGTTTTGATCATCGGTGGAGAACATCGCAACTACTCAGTTGGTCCCGCGTCTGGTCTGTTGTCCGCGTCATCGGTGGAGAACATCGATCCACCTCTCGCCGCATCCACCGCTCGCCGCTCAACCCATCGAAGCCCCCCAATCGAGACGGCTTGAGGCTTGAAATCCTTGACGACACCGCCGTTGGCACCT GGGAACACCACGGACGACAGCCGCAGAAGTACAAGCCATCAGCCGCAAAAGTATAAAAGGAGATTTGACCAGCCGCGTGAGGAGATTTGATGAACCCAGTTTGTAAGGAGACATCATCCGATCAGCCGCAGAAGTACATAAGGAGGTTTGACCAACCCGAACGGGTTTAGCAAGAGGGTAGATGGAAGACCTGGGACATAAGGATTATCGGTGGGGAGAGTTTTTAAGGAGACGTCATCGGATTCAGTGGTGCGGGTAGTGTGGCGGCGGTTAAAACCAGTATCACTCCCCTCAACCAGTATCACACCTCTCAGGAAGGCATTCCACCTGACCA | TGATTCCAGAACAACGGTCCA GAAAAGTACAGGGACTGAAGCACAGCCGCGTATCGTCCTAAACAGCCGTGTGTCTTCCCCACCACCATTTGCGAACCATTTGCGAGCCTTGTTATAAGACTCTAAAACGATGGTGTAAGTAGAGATCCCATTGCCACAGATGCGTTGGGTTATGAGGGCGTTGGGTTATGAGGGATGACCAGTAGTTCCTCAGCCCCGCCCACCACCCTAAAGTTTGAGGATGAAGGAAAGGTACTTGAGGTATCTCCACCGAATTGAGCAAGTGACTGCAGGTCCACCACCATTTGCGAACCAACTTCACCATCCCCAATGAGCCAGTGAGTGCAGGTGATGGCTTGAACAACTGCTGGACGAACCACTGACCAAACGGCCTCCAACCACGCTGACCTCCGACCACGCTGAATCTCTGGTATTACCGGGCGGTCGGGAAAGGAGACGCCATGATAGGCTGTGTCTGATCCATCCTGAGACGGTGGTCGCCTTAACCTCTGGATGGACCGCGCCGACGATTTTGATGCCATGGACTGTAACAATGGATGAGGGTTGGTCAAATCGCCTCTCTAACCTTTCGGTGCTAGTTGTCAATGACCTCAGGGTGGACACAACACACCTGCTAACAAATGGCCGTTCAGTCCGGTCCTGCCGTTCAGTCTGGTCTTGCGCCTCACCAGAGACCAAACGTCCTGACTTGACATAAACTTCTCTAGGGTTTATACTTCTGAGGTTGGCAACCCTGACACCACCATCCACCATCACTTCACGCACTTGACCTTCTTCTTCTTGTGCTTG |