**Table S1** Details of gene-specific primers designed from the height-related genes, including *EgDELLA1*, *EgGRF1*, *EgGA20ox1*, *EgAPG1* and *EgExp4*. The specified primers were selected based on their size amplification in the expected size. The amplification sites were from 5՛ UTR to 3՛ UTR sites of the genes.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Order | Gene name | Chr. | Gene sequence (bp) | Primer name | Primer sequence (5'-3') | size (bp) | Selected primer |
| 1 | *EgDELLA1* | 14 | 1739 | **EgDELLA1-P1F** | **TTTTCGTACATTCGGCTCTG** | **3015** | **✓** |
| **EgDELLA1-P1R** | **ATCCTGTTCGAAAGCGAGAA** |
| EgDELLA1-P2F | GGCATAGCTTCTCTCTCCTATGC | 3384 |  |
| EgDELLA1-P2R | GTCAAGAACCAGGAGCAAGC |
| 2 | *EgGRF1* | 10 | 1038 | EgGRF1-P1F | CAGGAGACAACAGCAGCAAA | 2635 |  |
| EgGRF1-P1R | CAATGACATGCAACATTCCTG |
| **EgGRF1-P2F** | **TCATTGTTCCACACTTCCACA** | **2516** | **✓** |
| **EgGRF1-P2R** | **GGAGAAGATCAGAAGACTGGTTACA** |
| 3 | *EgGA20ox1* | 11 | 1341 | EgGA20ox1-P1F | TGAGAGACAAAAACGAACAGGA | 2538 |  |
| EgGA20ox1-P1R | CAAGAGATGTGCTGGCCTTT |
| **EgGA20ox1-P2F** | **TGTTGGCTTGAGCATAGGACT** | **2759** | **✓** |
| **EgGA20ox1-P2R** | **AGGCGCTAGGTGACAAAAGA** |
| 4 | *EgAPG1* | 16 | 1744 | **EgAPG1-P1F** | **TGGCACCTCGATGTATTTGA** | **2917** | **✓** |
| **EgAPG1-P1R** | **CTGCAAAGGGAACTCGAAAC** |
| EgAPG1-P2F | TCCACATCGATTGTGAGTTAAGA | 3332 |  |
| EgAPG1-P2R | GCACCACCTTAGGCATTGAT |
| 5 | *EgExp4* | 14 | 964 | **EgExpa4-P1F** | **TGAGGGCTACAATTTTGAATGA** | **2586** | **✓** |
| **EgExpa4-P1R** | **GTCATCTTGCCAGGATTGGT** |
| EgExpa4-P2F | TTGGTATCCCTGTGTAGGTGAA | 3168 |  |
| EgExpa4-P2R | AAAATGGAGAAGGTTCGGTTT |