Table S1. Real-time fluorescence quantitative primers

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| Gene name | Gene ID | Forward primer (5'—3') | Reverse primer (5'—3') |
| *BrJMJ1* | BraA01g011450.3C | GGAAGCCATGCTGCGTCCTT | CTGCGCTGGACAGCTCGATA |
| *BrJMJ2* | BraA01g012140.3C | AGTTTCGCTGCAACCGCTCC | CTAGCGAGCTTTGTCGACGC |
| *BrJMJ3* | BraA02g033320.3C | CCCTTCGACTTGCTGAGTGGG | TCTCCAGGAATGAGTCGGGCA |
| *BrJMJ4* | BraA03g009260.3C | AATATGCCGACGGGATGCGG | AGAACAGGCCTCCCAGTCAC |
| *BrJMJ5* | BraA03g020590.3C | CTGGTGGGGACAAAGGCAAGA | TTAGGGTCCACAGGCCCTGAC |
| *BrJMJ6* | BraA03g029710.3C | AGAGCGCCTTCCAAGGCATA | ACGCAATGTACGTCTTGGGTCC |
| *BrJMJ7* | BraA03g029730.3C | CTGTTGATCTGGCTGAAGGCGA | ATTTCCCTGCAAGCCCTCCAC |
| *BrJMJ8* | BraA03g049530.3C | AACGCTTATTCTGTTTCTTCAGACG | AGCAACGTGCTCAGGTGAGAG |
| *BrJMJ9* | BraA04g024870.3C | TCCTGGAACCCATGCAACGTC | ACCGCACGATAAACCGGGAC |
| *BrJMJ10* | BraA04g025520.3C | TGCGGGAAGAACGGGACTCT | ACGCACTCCCTCTCGCAGTT |
| *BrJMJ11* | BraA05g006830.3C | CGCGGTCCCAGGAAAACTCT | ACATCTGCAACGGTTGGCTCT |
| *BrJMJ12* | BraA05g026320.3C | ATACTTGCTCAGGTTGTTGGCA | AGCTCCACCACCTTTGGAAACT |
| *BrJMJ13* | BraA05g038070.3C | TTTGCGCAAGAAATGGGCCG | TGTGCAGCATGCTTCCTCTTCA |
| *BrJMJ14* | BraA06g005740.3C | GGGCGTACCACGCTGGATTC | GCAGCCCCAAGCAGCAATTT |
| *BrJMJ15* | BraA06g018530.3C | GCTTGGCATGTGGAGGACCAT | CCTGCAACATGGTATCCCAGCTC |
| *BrJMJ16* | BraA06g020720.3C | TGGGTTCCGAAATCGACCGC | CTCCGGAGAGGTAAGCGGGA |
| *BrJMJ17* | BraA07g041420.3C | GGTTGGTGGCACTGCATCCT | AGAAGCCCAGCACGACACAC |
| *BrJMJ18* | BraA08g010460.3C | CACGGATTCAGACCGTGGACC | TCTGCCTCGGGAGAAGAGCC |
| *BrJMJ19* | BraA08g031280.3C | AGCCAACTGCGAGGTGAAGAT | ACTCATCGCAGTGACGTGGC |
| *BrJMJ20* | BraA08g032870.3C | ACGAGCAAACTCGATCCGGC | GTGCTTCTCGCACACGGTCT |
| *BrJMJ21* | BraA08g033080.3C | TGCAGCCTTCTGGGAGTCCT | AACCTGTGGCCGCGAGTAAG |
| *BrJMJ22* | BraA09g000040.3C | CCCTGCCCTCCAAAGGAACG | AGCAGTATCCACATCCGGTGG |
| *BrJMJ23* | BraA09g007640.3C | AGTCCAGAGTTCAGGAGTATCCAAA | ACAAAGCGATAATCAGAGCAGCTT |
| *BrJMJ24* | BraA09g013190.3C | TGCTTCAGGCCATTCGGCAT | GTTGACGGCCTCTGCACAGTTT |
| *BrJMJ25* | BraA09g016000.3C | TGTCCCAACGCCCTGAAACG | ACCAGCATTCCACTTTGCGGA |
| *BrJMJ26* | BraA09g022420.3C | CGGGACAACGCGAACTCTGT | CAGCTGCAAGTTTGAGTGGCG |
| *BrJMJ27* | BraA09g034190.3C | GCCGAGGAGAAGTTCGGCTT | TCCTCCACAGACGGTGTCCAT |
| *BrJMJ28* | BraA10g029240.3C | AGCCAAGCACGGAGTCCAAC | TAAAACGCCGAGATGGGCCG |
| *BrJMJ29* | BraA10g032100.3C | GATCGCACGTTCGCCTGGC | CCCTACGCACAGCAGCTTCCTT |
| *BrActin7* | BraA03g004000.3C | CCGAGCGAGAAATCGTCCGT | ATTCCGATGAGCGACGGCTG |
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