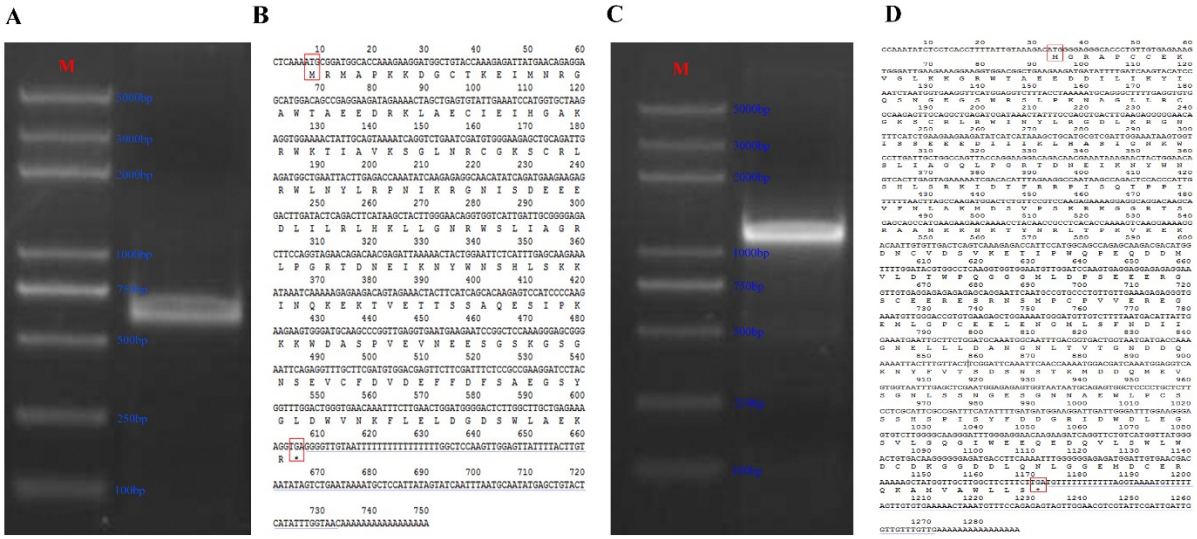


**Figure S1.** Full-length cDNA amplification of the *PsMYB114L* and *PsMYB12L* genes. **(A)** Results of PCR detection of the *PsMYB114L* gene. **(B)** The full-length cDNA sequence of the *PsMYB114L* gene. **(C)** Results of PCR detection of the *PsMYB12L* gene. **(D)** The full-length cDNA sequence of the *PsMYB12L* gene. ATG (start codon) and TAA (termination codon) are shown in the red box. M, Marker. The sequence of the 3 UTR is underlined in blue.


**Figure S2.** Flowers of *P. suffruticosa* 'Shima Nishiki' at five developmental stages. S1, flower bud emerging stage; S2, small bell-like flower-bud stage; S3, large bell-like flower-bud stage; S4, bell-like flower-bud extending stage; S5, color exposing stage.

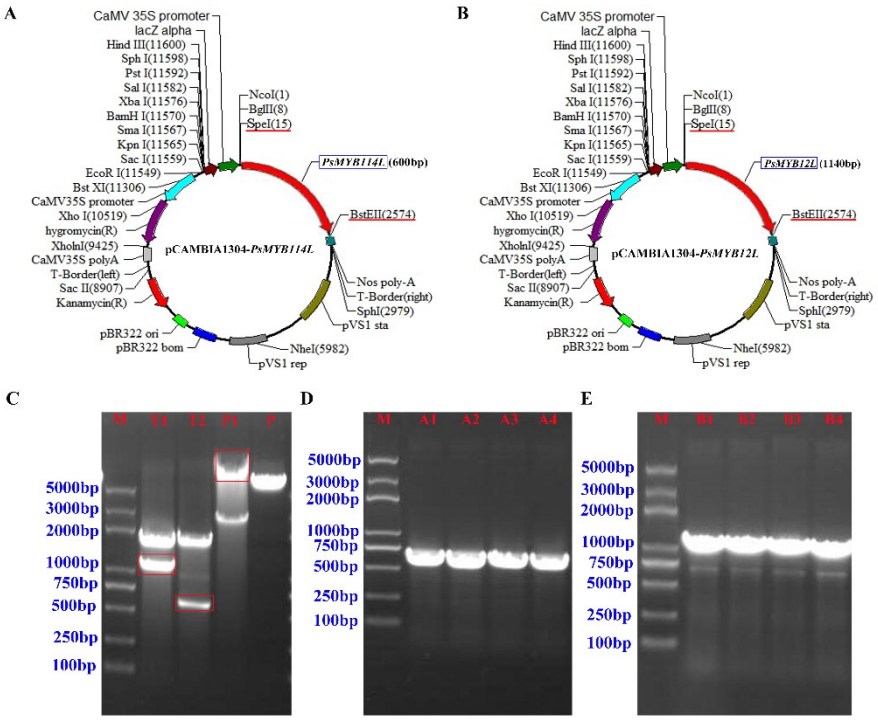


**Figure S3.** Construction of the recombinant expression vectors of pCAMBIA1304-*PsMYB114L* and pCAMBIA1304-*PsMYB12L*. Maps of the recombinant vectors pCAMBIA1304-*PsMYB114L* **(A)** and pCAMBIA1304-*PsMYB12L* **(B)**. The restriction sites (*Spe* I and *BstE* II) are underlined in red. **(C)** Double digestion of the vector and target gene. P, The empty vector of pCAMBIA1304; P1, Double digestion of the pCAMBIA1304 empty vector; T1, Double digestion of the pTOPO-Blunt Simple vector carrying the *PsMYB12L* gene; T2, Double digestion of the pTOPO-Blunt Simple vector carrying the *PsMYB114L* gene. The fragments used to construct the recombinant vector are shown in the red box. **(D)** PCR verification of the recombinant pCAMBIA1304-*PsMYB114L* vector. A1, A2, A3, and A4 are the four replicates used for PCR amplification. **(E)** PCR verification of the recombinant pCAMBIA1304-*PsMYB12L* vector. B1, B2, B3, and B4 are the four replicates used for PCR amplification.

**Table S1.** Primers used in this study.

| Primer name | Sequence (5'-3') | Description |
|---|---|---|
| *PsMYB114L*-1-F | GAGGCAACATATCAGATGAAGAAGAGG | Primers used for 3′RACE amplification |
| *PsMYB114L*-2-F | CTACTTCATCAGCACAAGAGTCCATCC | |
| *PsMYB12L*-1-F | AATGGCAATTTGACGGTGACTGGT | |
| *PsMYB12L*-2-F | TGATGGAAGGATTGATTGGGATTTG | |
| B26 | GACTCGAGTCGACATCGATTTTTTTTTTTTTTTT | |
| *PsMYB114L*-F1 | ATGCGGATGGCACCAAAGAAG | Primers used for Full-length cDNA amplification |
| *PsMYB114L*-R1 | TCACCTTTTCTCAGCAAGCCAAG | |
| *PsMYB12L*-F1 | ATGGGGAGGGCACCCTGTTGT | |
| *PsMYB12L*-R1 | TCAAGAAAGAAGCCAAGCAACCAT | |

| | | |
|---|---|---|
| *PsMYB114L*-GFPF | GGTACCATGCGGATGGCACCAAAGAA | Primers used for subcellular localization vector construction |
| *PsMYB114L*-GFPR | TCTAGACCTTTTCTCAGCAAGCCAAG | |
| *PsMYB12L*-GFPF | GGTACCATGGGGAGGGCACCCTGTTGT | |
| *PsMYB12L*-GFPR | TCTAGAAGAAAGAAGCCAAGCAACCA | |
| *PsMYB114L*-F2 | ACTAGTATGCGGATGGCACCAAAGAAG | Primers used for overexpression vector construction |
| *PsMYB114L*-R2 | GGTCACCTCACCTTTTCTCAGCAAGCCAAG | |
| *PsMYB12L*-F2 | ACTAGTATGGGGAGGGCACCCTGTTGT | |
| *PsMYB12L*-R2 | GGTCACCTCAAGAAAGAAGCCAAGCAACCAT | |
| 1304Ve-F | GGACTCTTGACCATGGTAGATCTG | |
| *PsCHS*-F | AGCAGAGAACAACAAAGGGTCACG | Primers used for qRT-PCR |
| *PsCHS*-R | TCAGCACCGACAATAACCGCAG | |
| *PsCHI*-F | TCCCACCTGGTTCTTCTA | |
| *PsCHI*-R | AACTCTGCTTTGCTTCCG | |
| *PsF3H*-F | CCCAAGGTAGCCTACAACCAA | |
| *PsF3H*-R | GAAAATCCCCCAGTCTTCACA | |
| *PsF3'H*-F | AACTTGTTCACGGCAGGGACT | |
| *PsF3'H*-R | GGCTTGGGCTAGGATTTTAGG | |
| *PsDFR*-F | TTCATCGGTTCATGGCTTGTC | |
| *PsDFR*-R | AATGGGTATCCGCTTTTGGC | |
| *PsANS*-F | GCCCTCACTTTCATCCTCCACAAC | |
| *PsANS*-R | AAAACTGCCCACGAAATCCTTACCT | |
| *PsFLS*-F | GAATGAACAGCCTGCAATCA | |
| *PsFLS*-R | TCTCGACTAGCCTCCACCAT | |
| *PsANR*-F | ATGGCTGGTCCTTCACTTACT | |
| *PsANR*-R | CGAAATGGATATGGAACCTGA | |
| *PsMYB114L*-F | GGGAGCGGGAATTCAGAGGTT | |
| *PsMYB114L*-R | AGCCAAGAGTCCCCATCCAG | |
| *PsMYB12L*-F | ATGGCAGCCAGAGCAAGACG | |
| *PsMYB12L*-R | TCAACAACAGGGCACGGCAT | |
| *PsUbiquintin*-F | GACCTATACCAAGCCGAAG | |
| *PsUbiquintin*-R | CGTTCCAGCACCACAATC | |
| *AtCHS*-F | ACGGACATTTGAGGGAAGTTGG | |
| *AtCHS*-R | AGGGTGGGCTATCCAGAAGAGG | |
| *AtCHI*-F | GCGGTTCTGGAATCTATCATCG | |
| *AtCHI*-R | TCGTCCTTGTTCTTCATCATTAGC | |
| *AtF3H*-F | CTGACCCTGGAACCATTACCTTG | |
| *AtF3H*-R | CAGCATTCTTGAACCTCCCATT | |
| *AtF3'H*-F | ACACCGATGGAGACTGTTGAGAA | |
| *AtF3'H*-R | GCGTTAGCGTTCCAACCTCTTC | |

| | |
|---|---|
| *AtDFR*-F | GCCAAACGCCAAGACGCTA |
| *AtDFR*-R | CATTCACTGTCGGCTTTATCACTTC |
| *AtANS*-F | AGGTTAGGATTTCTTGGGCTGTG |
| *AtANS*-R | CCGTGGAGGAAACTTAGCCG |
| *AtFLS*-F | ACCGTTTGCTTTCAAGGATTACA |
| *AtFLS*-R | AAATGATCACCGATTTTTTTCCGTG |
| *AtANR*-F | TTCAAGAACTTGGCGACCTG |
| *AtANR*-R | CGGAGTTGCGACATGGAAGA |
| *AtActin2*-F | TGCTGGATTCTGGTGATGGT |
| *AtActin2*-R | AAGGTCAAGACGGAGGATGG |
| *MdCHS*-F | GGCAAGTGCTGTCGGATT |
| *MdCHS*-R | CCCAAAGAAATAACCACAAG |
| *MdCHI*-F | GCTACAAATGCGGTGATAG |
| *MdCHI*-R | CGCCTCCACTACAACCTCC |
| *MdF3H*-F | GCCGATCACCTACACCGAG |
| *MdF3H*-R | GTACAAGAAGTGGGAAGGC |
| *MdF3'H*-F | TTGCGGATGGTGTCTCTGATG |
| *MdF3'H*-R | GCCTCGTCCATGTTCAACTTCTC |
| *MdDFR*-F | GTTGAGGGAGATAGGGTTTGAG |
| *MdDFR*-R | GGTAAATGTAAAACAATAGAGAGG |
| *MdANS*-F | GGAGAAGATCATCCTTAAGCCA |
| *MdANS*-R | CTAAGATATATCATACCAACTATGCC |
| *MdFLS*-F | GGATAAGACAAGAATCTCATGGC |
| *MdFLS*-R | CACACCACTCACAACTTTACC |
| *MdANR*-F | TCAACAAAAGATACCCCCAG |
| *MdANR*-R | GATAGCTAGCTCGATACATGC |
| *MdActin*-F | ACACGGGGAGGTAGTGACAA |
| *MdActin*-R | CCTCCAATGGATCCTCGTTA |