Table S1 Primer sequences used in this study

Primer names	Purpose	Forward primers (5'-3')	Reverse primers (5'-3')
PtrMYB3-T	Gene cloning	ATGGCGGGTAAGCGCAAGAC	TCACCAAAATCCCAAATCCG
PtrMYB3-pBI121	Overexpression	GAGAACACGGGGGACTCTAGAA TGGCGGGTAAGCGCAAGAC	ATAAGGGACTGACCACCCGGGT CACCAAAATCCCAAATCCG
PtrMYB3-101LYFP	Subcellular localization	ATGGGATCTACTAGTGAATTCAT GGCGGGTAAGCGCAAGAC	GGGGGTACCGTCGACGGATCCC CAAAATCCCAAATCCGATT
PtrMYB3-pGBKT7	Transactivation	ATGGCCATGGAGGCCGAATTCAT GGCGGGTAAGCGCAAGAC	CCGCTGCAGGTCGACGGATCCC CAAAATCCCAAATCCGATT
PtrMYB3-pTRV2	VIGS	AGAAGGCCTCCATGGGGATCCAG AAGAAACCAAAGACCAG	TGTCTTCGGGACATGCCCGGGC CAAAATCCCAAATCCGATTGC
35S-F	Transgenic identification for tobacco	TCCTCGGATTCCATTGCCCAGC	
NPT II		CGGCTATGACTGGGCACAACA	CGGCAGGAGCAAGGTGAGATG
pTRV1	Positive identification for VIGS	ATTGAGGCGAAGTACGATGG	CCATCCACAATTATTTTCCGC
pTRV2-F		ATTCACTGGGAGATGATACGCT	
PtrMYB3-qPCR	qPCR	GAGGCACATTCCCAAAGCTG	TGTTCGTCCTGGAAGTCTCC
PtrPOD		ATCGCTCTTGCTGGAGACAG	TTCAAGGGGCATTCAGCCTC
PtrMYB3-62-SK	Dual-luciferase activity assay	CGCTCTAGAACTAGTGGATCCAT GGCGGGTAAGCGCAAGAC	GATAAGCTTGATATCGAATTCTC ACCAAAATCCCAAATCCG
pPOD-0800-Luc		GTCGACGGTATCGATAAGCTTGC ACGTCATGATCCATGCCA	CGCTCTAGAACTAGTGGATCCC ATTTTCTGATAAGCACTTGC
ACTIN	Internal reference	CCGACCGTATGAGCAAGGAAA	TTCCTGTGGACAATGGATGGA
Ubiquitin		GGTGTTTCCAGTGGCGGACG	TCCTCCCCTCAGCTACGGGGTAT

(Underlines indicate enzyme site.)

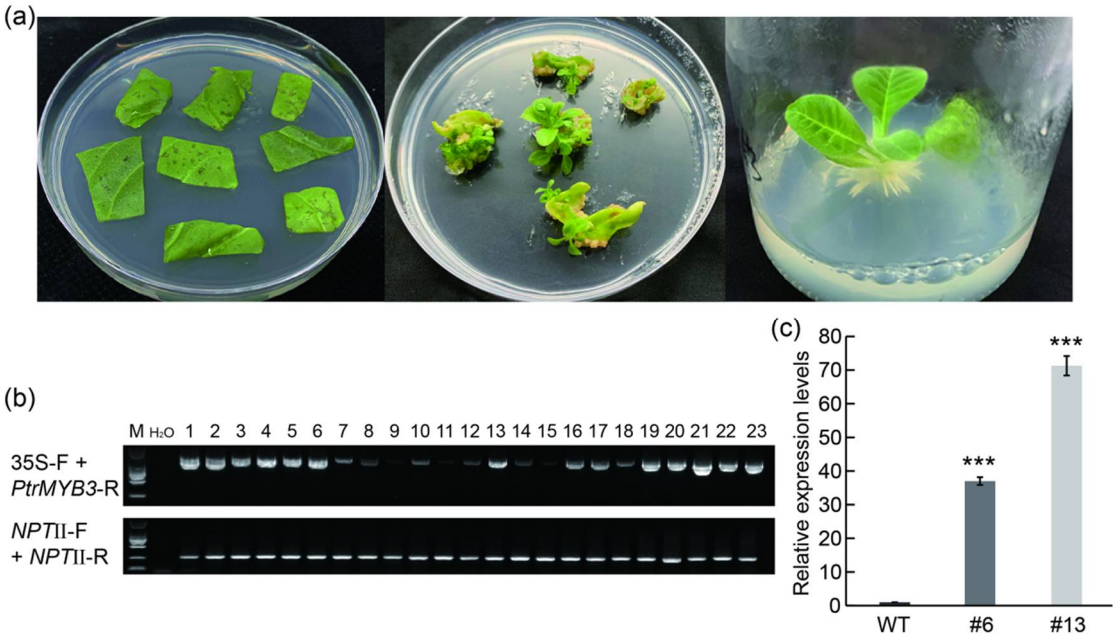

Figure S1. Genetic transformation and molecular identification of *PtrMYB3* overexpressed tobacco plants. (a) The representative pictures of genetic transformation. (b) The molecular identification of 23 transgenic tobacco plants using two pairs of primers. M: DNA marker. (c) The relative expression levels of *PtrMYB3* in WT and two transgenic lines (#6 and #13) measured by qPCR. Asterisks indicate significant differences between the transgenic line and WT: $p < 0.001$ (***).

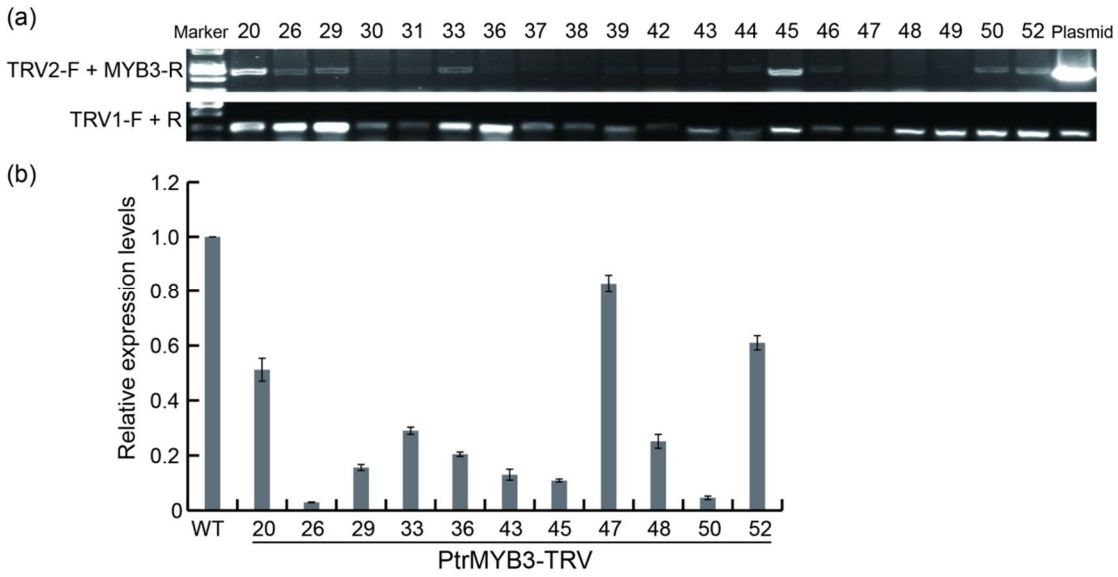

Figure S2. Molecular identification of *PtrMYB3*-silenced *Poncirus trifoliata* plants by genomic PCR and qPCR. (a) Genomic PCR of *PtrMYB3*-silenced plants using two pairs of primers. (b) The relative expression levels of WT and *PtrMYB3*-silenced plants (*PtrMYB3*-TRV) measured by qPCR.