

Table S1 Primers used for gene cloning, overexpression vector construction, and qRT-PCR analysis.

Primer name	Primer sequences (5'-3')	Function
<i>LsMYB1</i> -F	ATGAGACCAGGTAATAATACGGGT ATA	Amplify the full-length genomic and coding sequences of <i>LsMYB1</i> .
<i>LsMYB1</i> -R	TTAATCTGTGAGGTCCCACATTGCC	
M13-F	GTTGTAAAACGACGGCCAG	Colony PCR and sequencing of positive clones.
M13-R	CAGGAAACAGCTATGAC	
Ls18s-qF	GTGAGTGAAGAAGGGCAATG	Used as an internal control for normalizing <i>LsMYB1</i> expression in qRT-PCR analysis.
Ls18s-qR	CACTTTCAACCCGATTACC	
<i>LsMYB1</i> - KpnI -F	GGGGTACCATGAGACCAGGTAATA ATACGGGT	Amplification of <i>LsMYB1</i> CDS for overexpression vector construction (with <i>KpnI</i> / <i>Bam</i> HI sites).
<i>LsMYB1</i> - BamHI -R	CGGGATCCTTAATCTGTGAGGTCCC ACATTGCC	
NtAction-qF	AATGATCGGAATGGAAGCTG	Internal reference gene for qRT-PCR normalization in tobacco.
NtAction-qR	TGGTACCACCACTGAGGACA	
NtCHI-qF	GAAATCCTCCGATCCAGTGA	Comparative qRT-PCR analysis of anthocyanin pathway genes between wild-type and transgenic tobacco.
NtCHI-qR	CAACGTTGACAACATCAGGC	
NtCHS-qF	AGAAAAGCCTTGTGGAAGCA	
NtCHS-qR	ACTTGGTCCAAAATTGCAGG	
NtDFR-qF	TCCCATCATGCGATCATCTA	
NtDFR-qR	ATGGCTTCTTTGTCACGTCC	
NtF3'5'H-qF	GCCATAGATAACAAGCCTCTT	
NtF3'5'H-qR	ACCTAGAAGAGGAAGAGCGC	
NtF3H-qF	ACAGGGTGAAGTGGTCCAAG	
NtF3H-qR	CCTTGGTTAAGGCCTCCTTC	
NtANS- qF	CATGGGAAGACAGCCGTG	
NtANS- qR	GCTCTAGATCATTATAGC	
NtF3'H-qF	GTACCATGGGGAGGCCTCC	
NtF3'H-qR	CGGGATCCTCAATTATCGAA	