

Supplementary Materials:

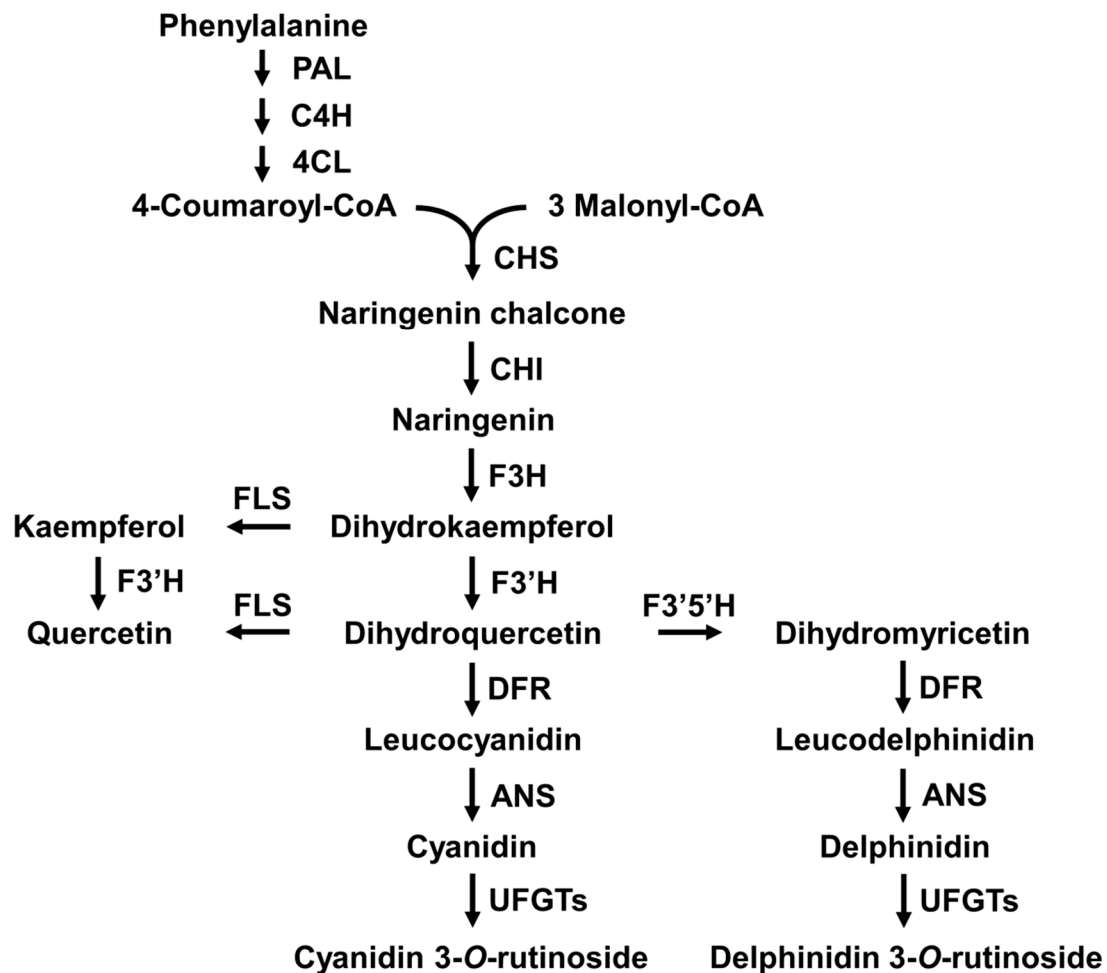


Figure S1. Schematic representation of anthocyanins biosynthetic pathway in tobacco. PAL, phenylalanine ammonia-lyase; C4H, cinnamate 4-hydroxylase; 4CL, 4-coumarate-CoA ligase; CHS, chalcone synthase; CHI, chalcone isomerase; F3H, flavanone 3-hydroxylase; FLS, flavonol synthase; F3'H, flavonoid 3'-hydroxylase; F3'5'H, flavonoid 3',5'-hydroxylase; DFR, dihydroflavonol 4-reductase; ANS, anthocyanidin synthase; UFGT, UDP-glucose: flavonoid 3-O-glucosyltransferase.

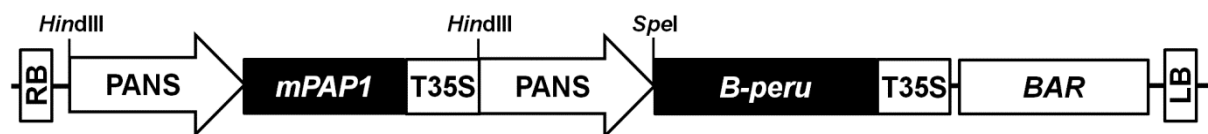


Figure S2. Schematic representation of the binary vector PANSBP used for *B-peru* and *mPAP1* expression in flowers.

Table S1. PCR primers used in this study.

Primer	Sequence	Usage
PANS-F	5'- CCGGTCAACTCAAGACAACCTACCTA-3'	Gene cloning
PANS-R	5'-TTTGTACAAACTTGCTCTGTATTATTCTT-3'	Gene cloning
mPAP1-F	5'-AAGAATAATACAGAGACAAGTTTGTA CAAA-3'	Gene cloning
T35S-R	5'-TCTAGAGGGCCCGACGTCGCATGCCTGC-3'	Gene cloning
PANS- <i>Hind</i> III-F	5'-AGCTCAAGCTAAGCTTCCGGTCAACTCAAGACAAC-3'	Gene cloning
PANS- <i>Spe</i> I-R	5'-TTGTGATATCACTAGTCTCTGTATTATTCTTGCTTTTTCTT-3'	Gene cloning
T35S-R1	5'-TGAGTTGACCGGAAGCTTCTAGAGGGCCCGACGTCGCAT-3'	Gene cloning
NtF3'5'H-F	5'-TTGATGTGTGGGAAAAACCA-3'	qPCR
NtF3'5'H-R	5'-CAAATCGTTCCTCTTGGA-3'	qPCR
NtMYB3-F	5'-CCGGGAGAACTGATAATGA-3'	qPCR
NtMYB3-R	5'-TTTCTGGCCAAAACCAAGG-3'	qPCR
NtETC1-F	5'-TCCTCCTGATTCTCAAGGAAA-3'	qPCR
NtETC1-R	5'-TCCGGGTATTCTCCAGCTA-3'	qPCR