***FtMYB8* from Tartary buckwheat inhibits both anthocyanin/proanthocyanidin accumulation and marginal trichome initiation**

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Additional file

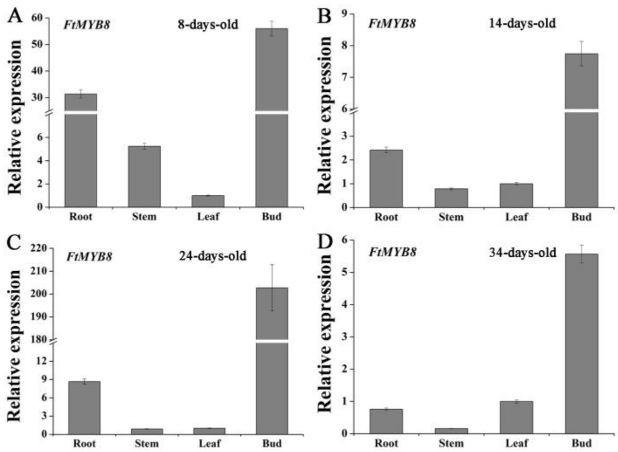

Figure S1. Expression of *FtMYB8* during Tartary buckwheat development.

The relative expression of the *FtMYB8* gene was evaluated by the $2^{-\Delta\Delta CT}$ method. *FtH3* was used as a reference gene. The accumulation of *FtMYB8* mRNA in the leaves was defined as "1" at each developmental stage. Means were calculated from three repeats, and error bars reflect ±SDs.

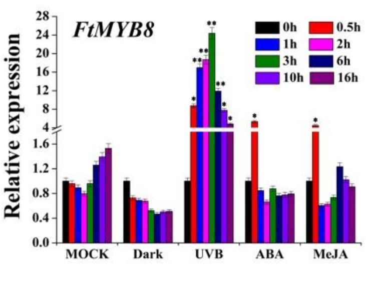

Figure S2. Relative expression of *FtMYB8* in Tartary buckwheat seedlings under the influence of environmental factors and hormone treatments.

The relative expression of the *FtMYB8* gene was evaluated by the $2^{-\Delta\Delta CT}$ method. *FtH3* was used as a reference gene. The level of *FtMYB8* mRNA at 0 h was set to "1". Means were calculated from three repeats, and error bars reflect ±SDs. **$P < 0.01$; *$P < 0.05$.

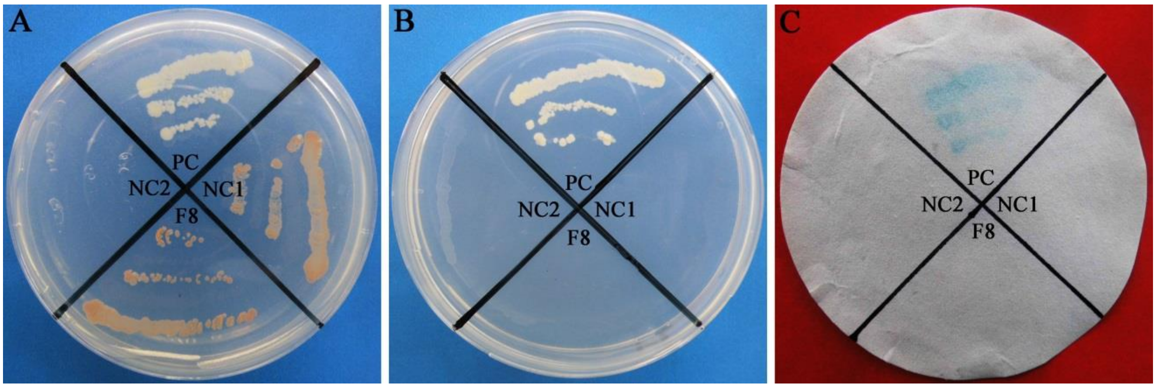

Figure S3. Transactivation assay of FtMYB8 in AH109 cells. (A-B) The transformed cells were selected on SD/-Trp and SD/-His-Trp media. (C) β-Galactosidase activity assay. PC: pBridge-*FtbHLH2*; NC1: empty plasmid; NC2: AH109 cells; F8: pBridge-*FtMYB8*.

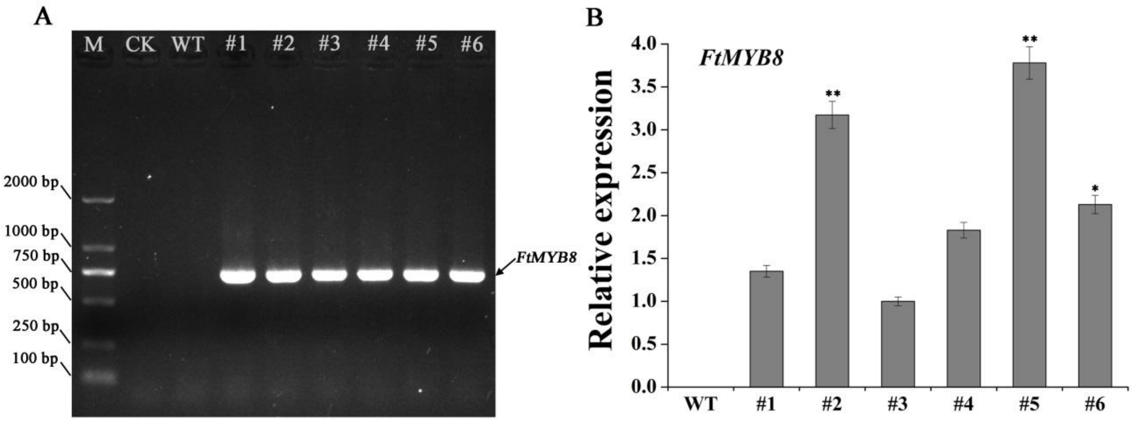

Figure S4. Generation of transgenic tobacco plants.

(A) PCR amplification of transgenic tobacco. Lane M, DNA marker 2000; lane CK, water, as a negative control; lane WT, wild-type tobacco; lanes #1 to #6, transgenic tobacco. (B) Detection of *FtMYB8* gene expression in transgenic tobacco and WT tobacco by qPCR. The tobacco *β-actin* gene served as an internal control. Error bars represent ±SDs. $^{**}P < 0.01$; $^{*}P < 0.05$.

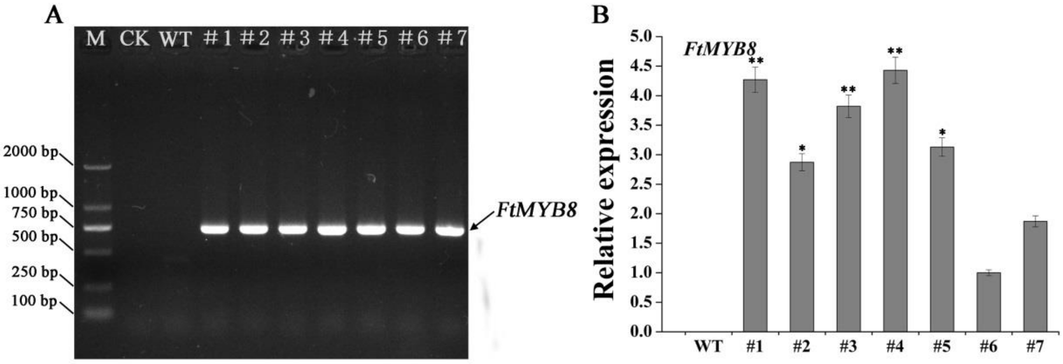

Figure S5. Generation of transgenic Arabidopsis plants.

(A) PCR amplification of transgenic Arabidopsis. Lane M, DNA marker 2000; lane WT, wild-type Arabidopsis; lane CK, water, as a negative control; lanes #1 to #7, transgenic Arabidopsis. (B) Detection of *FtMYB8* gene expression in transgenic Arabidopsis and WT Arabidopsis by qPCR. Arabidopsis *Atactin2* served as a reference gene. Error bars represent ±SDs. **P < 0.01; *P < 0.05.

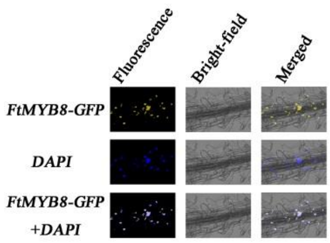

Figure S6. Subcellular localization of FtMYB8.

Root of *FtMYB8*-overexpressing Arabidopsis under a fluorescence microscope. DAPI was used as a nuclear localization marker.

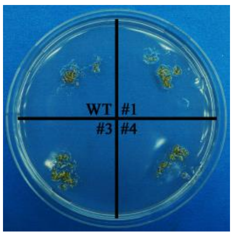

Figure S7. Seed germination of WT and transgenic lines.

WT and transgenic seeds germinated on MS medium; photos were taken after three days of germination.

Table S1. Sequence of the P_{FtMYB8} promoter

Gene	Sequence (5’→3’)
P_{FtMYB8}	TAGGAAGGTATGACAGTTTGATTGGTTTATTTAGTTTTGCCTTCTAAATTTACACTTTATTCTAA TTACTAGTTTACTTTAAAAACATATTGTATTTTACCTAAAAAGAACTTGATTTATCTATTACTCA ATGAGTACGAACACAAAAAAAGATATGAGTGGATGATGGATCAGATGAAAATTTTAGGGGAT GGATCGAGTGATGTGAGTGGTTTATCCCCGTCAATCGACCCGTTGCCGACCCTATATAAGATT AAGCTAATACATCATAGCTAATTATATCCTTGTCAATTTGTAAGCTTGAATGCAAGATGCATAG AGGTTATGAAAGCTTGTGGGCGTTCAATCAACATTATAGTTTAAGGTTTTTATATGTGGTAATC TCTTATTGAATAACATATTTTATCAGGTGTCATTTCTATTAAATCAAAGTTAAATTAAATATTTTT CTTTCAAAAAATACAAATATAAACTTATTGAAGGTAGGCTCATATTAATAACAACTCAATTTGA AAGTCAATCAACAAAATCCCTAACTTGGTTGAACTTACACCAATAAAAGTTACCATTAGAAA TGTGGAAATATACATTTTAAAACTACAAAAATTGGAAAAAAAAAAACCATAAAATAATCTAAA AATGGATTAAGTGAAATCCAAGTTCAATAAATGTTTGTCATATATATACTTTTCTGACATTGCA TTAGTATAGTTGTTAAATTAGAAATGTTATTGTCTACAATAATTTCTAACTGACAACGATGTCA TCCTTTTATTTAATATTGAAAAACGTTTAAGGAAATAAAAATACTTTTTATTATTTAAAAAAAA TGTTCATAGAGCATGGTAGGTTGTGCGGGTAAGTAAGAATGGCGGGATCTGCATGCGGAGGC AAAAAGAAAACGACTGCTACTTAACGGTGTCATTCCCTTCACGGTAAACAACCAGTCAGCG TTGTACGGTTTACGGAATCAATGCACCATTCTAACGGACTTAACCAAAATAGTTTAACAAAAC CAACTAACCAAAGGTTAAATTTGTAAACGGATTTTTTTTTAAAAAATCATCAAATATTCAATTA TTAACAGATTACTACATACAGTTATAAGTTATAACTTAGACAGATAACAAGTTGTGCTGTCCTT ACATGTCCATCATTATTAATATTAATATAAGTTAGTTGTCTCATAAATTGGCTAAAGATATTATTT TGTGGAAACAATCTAATATTAATAATGAATATTATAAACAAATTTGATGGGTTAATTTTTCTATT TTCAATTGGTTTTAGTATAAAAATTTTTTTGAACATACGATGTACTTTTATCACATGATATGTTT GAAATCGGACCTACCATAATTTAAAGATCTATTTTTCATTGTAAAGTCAAACTTAAAAAGTCT TCACAAAGAAATGTATTTTTTTAATTATATTATATTTTTCTTTTAAACTGAGATGCTAAATAAAC ATTTTTTTTCTTCATAATTTTCAGTTCTAGTTTTTAAAGCCTAAAACTTGAAAAGATAGTAAGT AGTGTCCTCATCCGGAATGAGTACATGTTTTGTTTGATCATTTTCATCTAGTTTAGAATTTAAT CTAGTTGGTGCCGAGCTAAAGTTTTTCCAGCTTCTAAATGTGTTTATAATCGACTTATTTAGTC AAGTGAATGGGTACAAGCTAATTTTTTTTACGAGTTGATCTCAAATAGGCTGATTCATCACTA CCGATTGAATATTGACTTGTCTAGTCTTTCTTAGGATTTCAAGAATGTTCTAGAACTACCCAA ACTTTGGTATACTCGTGATTAGCTCGTTTGGAATCGGGTTGATGTCACAAAGTTTAAATTTAA CCGAACATACAAATAAATATATTCATAATTCATCTTGTTTACTCAAGTGATCGTGTCCGAGTCT GAATTGAGTTTTTCTTCGAGTTGAGCTCGGATAACTTGGTTTTTAGGTAACAAATAGAACCGA TGCGAGCATTCTATTGTACGTACTTGTAGAAGTCCTATGTTAGGTAAAGTGTCGAACAAGACA TTACTATGCCGTATAGTATAATAAAGAAGTTCTTCAATTCTTGGCGCCTATTTGCTTGCGTATG CGTGACCCACCTAAATAGTCTCTCCTCAAACCGCCGGTCCAAGTCAACTCATCTTCGATACTC TTTAAGTATTTCTTAAGAACTTGATTTTTATATATATGTGCAGCAGCTTCTGCCAGCTTTTAACG CCGTAATCTATCCCGTGATCGATTTTCTTCTCTTTTGTTGTTTCTGATCGACTGAGCTTGCCGG ATCAAACTCGATAACGCGA

Table S2. Predicted cis-elements of the P_{FtMYB8} promoter

Name of the element	**Sequence**	**Function of element**	**Number**
ABRE	GCAACGTGTC	cis-acting element involved in the abscisic acid	1

		responsiveness	
AE-box	AGAAACAA	part of a module for light response	1
ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction	6
AT-rich element	ATAGAAATCAA	binding site of AT-rich DNA binding protein (ATBP-1)	1
ATC-motif	AGTAATCT	part of a conserved DNA module involved in light responsiveness	1
Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness	4
CAAT-box	CAAT	common cis-acting element in promoter and enhancer regions	41
CCAAT-box	CAACGG	MYBHv1 binding site	1
CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness	1
GA-motif	ATAGATAA	part of a light responsive element	1
GATT-motif	CTCCTGATTAGC	part of a light responsive element	1
GT1-motif	GGTTAA	light responsive element	4
O2-site	GATGACATGG	cis-acting regulatory element involved in zein metabolism regulation	1
TATA-box	TATA	core promoter element around -30 of transcription start	60
TCT-motif	TCTTAC	part of a light responsive element	1
TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness	1
circadian	CAAAGATATC	cis-acting regulatory element involved in circadian control	1

Table S3. cDNA sequences of *FtGL3*, *FtEGL3*, *FtTT8* and *FtTTG1* genes from Tartary buckwheat.

Gene	cDNA sequence (5'→3')
FtGL3	ATGGAGAAAGTTTCACAAAATCTAAGAAAACAGCTTGCAATTGCTGTAAGAAGCATTCAAT GGAGTTACTCAATTTTCTGGTCAATTTCCTCTTCTGAACAAGGTGTTTTGGAATGGAGTGAA GGGTTTTACAATGGAGATATCAAAACAAGAAAAACTATACAAGCTGTTGAATGGGATGTAG ACCAAATGAGCTTGAAAAGAAGTGAACAATTAAGAGAGCTTTATGAATCTCTCTTAACTGT

	TGAAACTAACACTCAAACTAGAAGACCTTCAGCTGCACTGATTCCTGAAGATCTTTCTGATA
	CTGAATGGTTTTATTTGGTTTGTATGTCCTTCGTCTTCAATCTCGGCCAAGGGTTACCCGGAA
	CAGCTTTACAAAATGGCGAGCCTATATGGCTATGCAATGCTCACCAAGCGGATAGCAGATTG
	TTCAGTCGCTCTCTTCTCGCTAAGAGTGCTTCAATTCAGACTGTAGTATGCTTTCCTTTCTTA
	GGAGGCGTAGTTGAGCTCGGCGCTACCGATTTGGTTTTAGAGGATCATTCATTGATCAAATA
	TGTTCAAGATTCTCTCTTGGTGACTGATTGCTCAGCACTTCCTCAGATACCCATTTCAGTAAC
	ACAATGTGAAGAGTTGAGATTGGTAGAGTGTTCGAATAACAGCTTGATTCATCTAATGGAGG
	ATACTAAATCTATGATGACTGAAAATGTAAATGTGGATCTTATAGATGATGATTTGAGTAACT
	GTGTTTATACTTCCATGACATCCAATGATTGCATATCTCAGAGCCTCGGGTATCCTGAGGATC
	TCCTTACTCTTCCGAAGATTGAGAATGTATCCGAAATTCATCCTCAAACAGCACAGGAGAAT
	ACAGAAGATAGTTGTGTTATGAGAACTGAGTTAGATGATGTTCATTACAAGAATGTTCTTGG
	TAGTATATTCAATACTAGCCACAGTTTGATCAGGGACCGTTCATATCGTAATTTTAACATGAA
	ATCATGTTTCGGTAGCTGGAGAAAAGGCGTTGGCTCGTATAGCAATCCTAGATATGGTAACT
	CGCAAAGGATCTTGAAGAAGATACTTTTTGAAGTTCCTCGGATGCATAGTGTATCCTCGTCC
	GAGAATAATGTGGATGGTGACCGGATAAAAACCGATTTGTGGAAACCCGAAGCTGATGAGC
	TTGTCTCAAACCGGATGCTTGTTCCGAGGAGGAGACGGGAGAGTGTGGATGATAGATTTTT
	CGAGTTAAAATCATTGATTCCTTCCATTGATAAGGTTGATAAGGTGTCTATACTTGATGACAC
	AATAAAGTACATGAAAGAGCTTGAGAGGAGAGTTGAAGAGCTTGAGGGAAGTCAAGATCA
	CAATGAATCCGGTGGAGGAAGAACACGTATGAAATATCAAGACGCGGCAGAAAGAACATC
	CGACAATTATAAAAACAACAAAGTCGGAATCAAGAGAAAAGCTGAGGAGGAAATTGATGA
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	CAACATCATCCAAAAAGATGTCTCGATTGACATAACATGTCCTTGGAAGGAATGCTTGTTAC
	TCGAGATCATAGATGCATTAACAAATCTACGACTAGATACTCACTCGGTTCAATCCTCAAGAT
	CCGATAACCTCCTATCCATAAACATCAAAGCAAAGATCAAAGTACCGGGCGGGTTATCCGCG
	GGAATGATCAGGCAAGTGTTACAAAGAGTCGTGATAAGAAGTTGA
FtEGL3	ATGGAAACTGGGCTCCAAAACCTAAGGAAGCAGCTTGCTCTTGCTGTTAGGAGCATCCAAT
	GGAGTTACTCCATTTTCTGGTCAACTTCTCCTTCTGAACTAGGGGTACTAGAATGGGGTGAA
	GGATACTACAATGGAGATATCAAGACAAGGAAAACAATTCAAGCTGGTGAATTTGATGTAG
	ACCAGATGGGCTTGCAAAGGAGTGAGCAGTTAAGGGAGCTTTATGAGTCTCTATTAGCTGG
	TGATAGCAACCCACAAGCTAGAAGGCCATCAGCTGCACTGTCTCCTGAAGACTTGTCGAAT
	ACCGAGTGGTATTACTTGGTTTGTATGTCATTTGCCTTCAATCTTGGACAAGGGTTGCCGGG
	AAGAACTTTAGAGACCGGTCAGCCTATCTGGATCTGTAACGCCCACCAGGCAGATAGTAGT
	GTGTTTGGCCGCTCTCTGCTGGCTAAGAGTGCTTCCATTCAGACAGTGGTATGCTTTCCCTT
	TCTAGGAGGTGTCGTCGAGCTAGGTGTCACTGATATGGTTTTAGAGGATCTTCCAATGATTC
	AATATGTCCAAGCTTCTCTATTGGAGATTGATTGTCCTGCTGTTTTTAGTTATACTCGAACATC
	AGTTGTGCCATGTGAAGAAATGAGATCATTAGAGTCTCCTGATGACAGCTCTAGTGGATTTG
	GACTAATTCAACCAGTAGACGAAACTAAATTCAAGGTTGAATGTGCAAGTGGGGAGCTTAT
	AGATGATGATGACCTGAGTAACCGTGTTTATACTTCTATGACTGAAAGTGAATGTATATCACA
	GAATCTCATAAACCCTGAGAATCCCATATCTCTTTTAAATGCTCAAGAACAGGATATTCAAGA
	TGAGTTCAGTGATGATCTCCATTACCGGAATATTCTCACTAGTCTTTTCAAGAGCACTAATGA
	GTTGATCTTGGAGCCTAGTGCTTGCAATCGCGAAAACAAGTCATGTTTTGTGAGTTGGAGA
	AAAGGAGGCATAGGTTCTTGCTTTAGACATACAAATGGAAGCTCACAAAGAGTTTTAAGGA
	AAATACTATCTGAAGTTCCTCGGATGCATGATGGTTTCTCTAACCATACAATTGCAGAGAGA
	AGGAGAAGGGAGAGTGTCAATGACAGAATTTCTGCACTAAAATCACTTATCCCATCAATTG
	ATAAGGTTGACAAGGCTTCTATACTTGATGACACAATAAACTACTTGAAAAATCTCAAGAGA

	AGAGTTGAAGATCTTGAAACAAGTGAATGCAGTGAAAGAAAAACACATAAAAAGTCTCAA
	GACATGGCAGAGAGGACATCCGACAACTACGGAAACAACAAAGATGGTGTCAAGAGAAA
	AGCCAATGAATCTGATGAAGGGATCAGACAAAATTCTAAGAACTCTACCAAACTATCAATC
	AGCCTAATCGAGAAGGATGTTTTAATTGAGTTAAGATGTCCATGGAAGGAATGCATATTACT
	CGAGATCATAGATTCGCTGAGTAGTCTCAGACTAGATACACATTCGGTTGAGTCCTCTACAA
	CTAACAACTTTCTTTCTGTTACCATCAAAGCAAAGATCAATAGATTGAGCAGTCTATCAGCA
	GGAATGATCAAGCAGGTGCTACAGAGAGTTCTAATGAAAGCTTGA
FtTT8	ATGGCGGCACCACCGCCAGGCAACGGGCGGCTGCAGACGATGTTGCAGTCGGCGGTTCAA
	GCCGTTCAGTGGACCTACAGTCTCTTCTGGCAATTCTGCCCCCAGCAAGGGGTTCTAGTGT
	GGTCAGACGGATACTACAATGGAGCAATAAAGACTCGGAAAACGGTCCAGCCGATGGAGG
	TGAGTGCCGAGGAAGCTTCCTTGCAACGCAGCCAGCAACTGCGCGAGCTTTACGACTCTCT
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	CTTAACGGAGACCGAGTGGTTCTACCTTATGTGTGTCTCCTTCTCTTTCCCTCCTGGTGTTGG
	GTTACCCGGTAAGGCATACGTAAAACGACAACATGTATGGCTAACGGGCGCACACGAGGTT
	GATAGCAAAGTCTTTTCTCGAGCTATTCTTGCTAAGAGCGCTCGGGTTCAGACGGTTGTGTG
	TATTCCTCTGTTGGATGGAGTGCTGGAGTTGGGCTCTACTGAGAGGTTGCCGGAGGACATAT
	CTGTTGTCCAACTCGCCAAGACGTTCTTCGTTGACCACCCTCACCACCTCCACCGCCTTCC
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	CCTGCGACCACCTCCAATATGCACCGAGTCAACGAGGAGGCCGAGGATGACGATGAAGAA
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	GCAGGGCAACAAAACCCGCAAAATCCGGCTCAGTTGGGAGCTGGTGCGTCGGCAAACACG
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	GACACACACTACTCTCAAACAGTCTCAACCATTCTACAATACCAGGCCGGACGGTGGTCGG
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	CCTTCGCAAAATGGCCGCCTCGATCCGACCACCAAGTCCACATCCCAGAAGAGCTCAACTC
	CCAATGGCTCCTCAAATACATCCTATTCACCGTCCCATTCCTCCACACCAGTAAATCCAACG
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	AGGGCACCCCGCAAGACGAGCTCAGCGCTAACCATGTCCTAGCTGAACGAAGGCGTCGAG
	AGAAGCTCAACGAGAGGTTCATCATACTAAGGTCGTTGGTTCCCTTTGTAACGAAAATGGAT
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	ATAATCGAGTGTGATGCTTTAATAGAGCTGCACTGTCCGTACAGAGAAGGGTTGCTTCTTGA
	TGTGATGCTTGTGCTCAGGGAGTTGCGCATCGAGGTGACCGCAGTTCAATCTTCTTTGAATA
	ATAATGGCTTCTTCGTAGCTGAAATGAGAGCTAAGGTGAAGGAGAATGAAAATGTGAAGAA
	AGCGAGTATTGTTGAAGTGAAGAGAGCAATAAATCAGATAGTTCCGCACTCTGATGACTTCT
	AG
FtTTG1	ATGGAGAATTCGACTCAGGAATCACACCTCCGGCATGAGAATCTGGTGACGTACGAGTCCC

CGTACCCTCTGTACGCTATGTCGTTCGCCAGCGGCGGACACTTCCAGCGTCGGGGCGGCCG
AACACACGTCGCCGTCGGCAGCTTCATTGAGGAGTACAACAACAAGGTCGACATCCTCACC
TTCGATGACGAAACCCTAACCCTAACCCCCAATCCATCTCTTTCCTTCTCCCACCCTTATCCT
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AGATGACGCCCAGGCACTCATCTGGGAGCTTCCTACCGTGGCTGGCCCCGCTGGAATCGAT
CCTCTATCTTGTTACTCTGCTGCCTCCGAGATTAATCAGTTGCAGTGGTCTGCAACGCAGCC
TGACTGGATTTCCATCGCCTTTGCCAATAAATTGCAGATGCTGAAAGTTTAA

Table S4. Sequences of all primers used in this study

Primer name	Forward primer (5'→3')	Reverse primer (5'→3')
FtMYB8	ATGAGGAAGCCGTGTTGCGAGA	TCATCTGAATAGGTTAAGAGTAGGA
PFtMYB8	TAGGAAGGTATGACAGTTTGATTG	TGCTTGGACCAAGCTCCCTTG
PBG-FtMYB8	TGACTGTATCGCCGGAATTCATGAGGAAGCCGTGTTGCGA	TAGCTTGGCTGCAGGTCGACTCATCTGAATAGGTTAAGAGTAG
PYFP-FtMYB8	GACGAGCTCGGTACCATGAGGAAGCCGTGTTGCGAG	GCTCACCATGTCGACTCTGAATAGGTTAAGAGTAGG
PBI-PFtMYB8	TGATTACGCCAAGCTTTAGGAAGGTATGACAGTTTGATTG	ATCCTCTAGAGTCGACTCGCGTTATCGAGTTTGATCCGGC
PGAD-FtMYB8	TGAATTCCACCCGGGTATGAGGAAGCCGTGTTGCGAGA	GAGCTCGATGGATCCTCATCTGAATAGGTTAAGAGTAG
PGBK-AtTT8	ATGGAGGCCGAATTCATGGATGAATCAAGTATTATTC	CCGCTGCAGGTCGACCTATAGATTAGTATCATGTATT
PGBK-AtGL3	ATGGAGGCCGAATTCATGGCTACCGGACAAAACAG	CCGCTGCAGGTCGACTCAACAGATCCATGCAACCC
PGBK-AtEGL3	ATGGAGGCCGAATTCATGGCAACCGGAGAAAACAG	CCGCTGCAGGTCGACTTAACATATCCATGCAACCC
PGBK-AtTTG1	ATGGAGGCCGAATTCATGGATAATT	CCGCTGCAGGTCGACTCAAACTCTAA

	CAGCTCCAGA	GGAGCTGCA
PGBK-FtTT8	ATGGAGGCCGAATTCATGGCGGCACCACCGCCAGG	CCGCTGCAGGTCGACCTAGAAGTCATCAGAGTGCG
PGBK-FtGL3	ATGGAGGCCGAATTCATGGAGAAAGTTTCACAAAATC	CCGCTGCAGGTCGACTCAACTTCTTATCACGACTCTT
PGBK-FtEGL3	ATGGAGGCCGAATTCATGGAAACTGGGCTCCAAAA	CCGCTGCAGGTCGACTCAAGCTTTCATTAGAACTCTC
PGBK-FtTTG1	ATGGAGGCCGAATTCATGGAGAATTCGACTCAGGA	CCGCTGCAGGTCGACTTAAACTTTCAGCATCTGCA
FtH3	AATTCGCAAGTACCAGAAG	CCAACAAGGTATGCCTCAGC
qFtMYB8	TTGATTGCGGGGAGGTTACC	TCGGTTATCTGCGAGACGTG
qFtPinG0505906200.01	GCGTTCTATTCCTAAAGCTGCC	CTTCCCGCAATCAAAGACCA
qFtPinG0606379100.01	AAGCATGGAGAGGGGTGTTG	TCCGTTCTTCCTGGTAGCCT
qFtPinG0100390100.01	TCACAAACTCCTCGGGCTCA	TGGCATGGCAATGGTTAGATC
AtActin2	CTGGAATGGTGAAGGCTGGTT	CGATTGGATACTTCAGAGTGAGGAT
Ntβ-actin	TATCCAGAAAGAGTCAACCCGTCACCT	TAGACAAAGCACATCACGACCACAACC
GUS	ATGCGGACTTACGTGGCAAAGGATTCGA	GCCGACAGCAGCAGTTTCATCAATCACC
NtCHS	ACAAGACATAGTGGTGGTTGAAGTGCC	GAGCCCGAGTAGCTTAGTGAGTTGGTAG
NtCHI	GTGCTCTTCCTTTTCTCGCCGC	ATTTTCTGCCACCTTCTCTGAGTATTG
NtF3’H	GGTGGTTGTGGCGTCTGCGTCG	AAGCCTTGGCAGAGAAAAGATGAACAGA
NtFLS	ACAGGCAATAGCGTCAATAACAAAATG	GCTAGCATCCGATATGAGTTTCACTACA
NtDFR	GCTAAAGCAAACACAGTGAAGAGGC	CATCCATCCTGTCATCTTCTTAGCATA
NtANS	AGTATGCTAATGACCAACCCTCTG	TTGTAACCCAGGCACCATATTGTG
AtCHS	ACGGACATTTGAGGGAAGTTGG	AGGGTGGGCTATCCAGAAGAGG

AtCHI	GCGGTTCTGGAATCTATCATCG	TCGTCCTTGTTCTTCATCATTAGC
AtF3'H	TCGTGGTCGCCGCTTCTAA	ATCGGTGTCCGTAAGGTGCA
AtFLS	ACCGTTTGCTTTCAAGGATTACAGTTAC	AAATGATCACCGATTTTTTTCCGTG
AtDFR	GCCAAACGCCAAGACGCTA	CATTCACTGTCGGCTTTATCACTTC
AtANS	AGGTTAGGATTTCTTGGGCTGTG	CCGTGGAGGAAACTTAGCCG
AtBAN	GCACGGGAAACTTAGCCTCT	GATCGGAGTTGCGACATGGA
AtTT12	TGGTACTCGGGTCCAATCCT	CCAAGCAAGCCGAAATCCAG
AtTT19	CATCTTCTTCGTCAGCCATTTGGT	CGTCACATTTCTCGCCTAACCT
AtAHA10	CCGAGGATTTGGACAAGCCA	GACCTAGACTTTGACTATTAGC