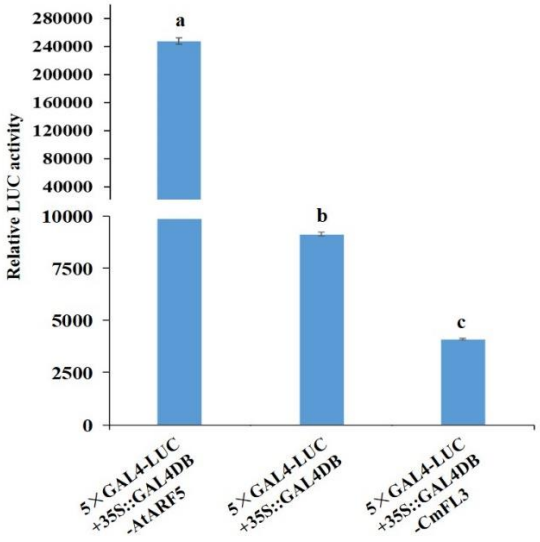


Figure S1. Luciferase activity measured after the introduction of 35S::GAL4DB-CmFL3 into *Arabidopsis* mesophyll protoplasts. Values are represented as mean ± SE (n = 3). Significant differences were analyzed using Duncan's multiple range test, and bars with different letters are significantly different from each other ($P < 0.05$).

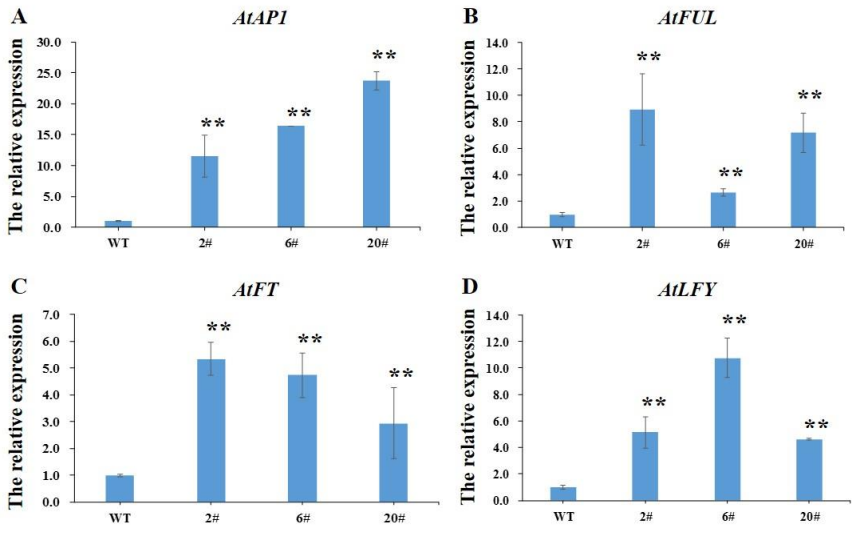


Figure S2. The relative expression of flowering-related genes *AtAP1*, *AtFUL*, *AtFT* and *AtLFY* in WT (Col-0) and transgenic *Arabidopsis* seedlings. Values given in the form mean ± SE (n = 3). *: means differing at $P < 0.01$, as tested using the Student's *t* test.

Table S1. Primer names and sequences used in this study.

Primer	Sequences (5'-3')	Purpose
CmFL3-ORF-F	AATGGGTAGAGGAAGAGTTACTCTG	ORF amplification
CmFL3-ORF-R	TGCGTCCGTTATACCACAAT	ORF amplification
pMDC43-F	TACCTGTCCACACAATCTGCC	RT-PCR
CmFL3-RT-R	TCCATTGATGAATCCGTAGAGT	RT-PCR
CmFL3-qRT-F	AAGGCATTTGATGGGAGAAGA	qRT-PCR
CmFL3-qRT-R	GCTGTATCAAGTTGCTGCTCCA	qRT-PCR
CmFL3-F	CACATGGAAGCTGGAATCTGGA	*In situ probe*
CmFL3-R	CTTGTTCATGTGTTGAACCATC	*In situ probe*
CmFL3-SP6	GATTTAGGTGACACTATAGaatGCTCACATGGAAGCTGGAATCTGGA	*In situ probe*
CmFL3-T7	tgTAATACGACTCACTATAGGG CTTGTTCATGTGTTGAACCATC	*In situ probe*
CmFTL3-RT-F	TTTTTGTGCTATTCCGGCAAT	qRT-PCR
CmFTL3-RT-R	AAACCGCGGCTACTGGAGAT	qRT-PCR
CmAFT-RT-F	CAAGCAAAAAGCAAGGCAATCA	qRT-PCR
CmAFT-RT-R	CAACCGGTAACCCCAAGTCATT	qRT-PCR
CmEF1a-F	TTTTGGTATCTGGTCCTGGAG	qRT-PCR
CmEF1a-R	CCATTCAAGCGACAGACTCA	qRT-PCR
AtFT-F	TGATATCCCTGCTACAACTGG	qRT-PCR
AtFT-R	CTATAGGCATCATCACCGTTC	qRT-PCR
AtLFY-F	ACGGCTTAGATTATCTGTTCCAC	qRT-PCR
AtLFY-R	CTATATCCCAGCCATGACGAC	qRT-PCR
AtAP1-F	TCTTAAGCACATCCGCACT	qRT-PCR
AtAP1-R	TCATTCCTCCTCATTGCCAT	qRT-PCR
AtFUL-F	GATGCAGCTATCAAGAGCATT	qRT-PCR
AtFUL-R	TAGGACGTAACATCCAAGCC	qRT-PCR
AtActin2-F	GGTAACATTGTGCTCAGTGGTGG	qRT-PCR
AtActin2-R	AACGACCTTAATCTTCATGCTGC	qRT-PCR

>AtAP1 Arabidopsis thaliana AT1G69120.1

MGRGRVQLKRIENKINRQVTFSKRRAGLLKKAHEISVLCDAEVALVVFSHKGKLFEYSTDSCMEKILERYE
RYSYAERQLIAPESDVNTNWSMEYNRLKAKIELLERNQRHYLGEDLQAMSPKELQNLEQQLDTALKHIRT
RKNQLMYESINELQKKEKAIQEQNSMLSKQIKEREKILRAQQEQWDQQNQGHNMPPPLPPQQHQIQHPY
MLSHQPSPFLNMGGLYQEDDPMAMRRNDLELTLEPVYNCNLGCFAA

>AtFUL Arabidopsis thaliana AT5G60910.1

MGRGRVQLKRIENKINRQVTFSKRRSGLLKKAHEISVLCDAEVALIVFSSKGKLFEYSTDSCMERILERYD
RYLYSDKQLVGRDVSQSENWVLEHAKLKARVEVLEKNKRNFMGEDLDSLSLKELQSLEHQLDAAIKSIRS
RKNQAMFESISALQKKDKALQDHNNSLLKKIKEREKKTGQQEGQLVQCSNSSSVLLPQYCVTSSRDGFVE
RVGGENGGASSLTEPNSLLPAWMLRPTTTNE

>AtCAL Arabidopsis thaliana AT1G26310.1

MGRGRVELKRIENKINRQVTFSKRRTGLLKKAQEISVLCDAEVSLIVFSHKGKLFEYSSESCMEKVLERYE
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RSRKNQLMNESLNHLQRKEKEIQEENSMLTKQIKERENILRTKQTQCEQLNRSVDDVPQPQPFQHPHLYMI
AHQTSPFLNMGGLYQEEDQTAMRRNNLDLTLEPIYNYLGCYAA

>AGL6 Arabidopsis thaliana AT2G45650

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YNCSLSNNKPEETTQSWCQEVTKLKSKYESLVRTNRNLLGEDLGEMGVKELQALERQLEAALTATRQRK
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DCNTEPFLQIGFQQHYYVQGEGSSVSKSNVAGETNFVQGWVL

>SEP Arabidopsis thaliana AT1G24260

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>SQUA Antirrhinum majus CAA45228.1

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RKNQLLYDSISELQHKEKAIQEQNTMLAKKIKEKEKEIAQQPQWEHHRHHTNASIMPPPPQYSMAPQFPCI
NVGNTYEGEGANEDRRNELDLTLDSLYSCHLGCFAA

>DEFH28 Antirrhinum majus Q941M9

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>PEAM4 Pisum sativum AJ291298.1

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RRNQLMYESISELQKKEKVIQEQNNMLAKKIKEKEKIAAEQQVQWEHPNHHGVNPNYLLHQQLPSLNM
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>PapsFL1 Papaver somniferum AY306177

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QEMGRLDQQQQSNQAQNSCSQAQNSAQNSPTFLLSQELPSLTICTGTYEPAARPIAIQTVMPPWMLRHL

>PapsFL2 Papaver somniferum AY306178

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>AqFL1A Aquilegia coerulea AFX72884.1

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>AqFL1B Aquilegia coerulea AFX72885.1

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>MtPIM Medicago truncatula DQ139345.1

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>BpMADS4 Betula pendula X99654.1

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>CmAP1L1 Chrysanthemum morifolium

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>CmFL2 Chrysanthemum morifolium

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>EscaFL1 Eschscholzia californica HM592297.1

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>WAP1 Triticum monococcum AAO72630.1

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>CDM111 Chrysanthemum morifolium AY173054.1

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>CDM41 Chrysanthemum morifolium AAO22980.1

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NQLMHESISELHKKEKTLQERNNSLSKKLKENEKNSEQQNERVELPQPPPPPPQPQPYSVPSFATSRPFIGA
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>CDM8 Chrysanthemum morifolium AY173056

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RKNQLMFESISALQKKDKDMQERNNILSKQIKEKEKDAAHHDKEPQIHAAVPSLHLGILNNCDAHQAGSD
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>CDM44 Chrysanthemum morifolium AY173057

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>CsAFL1 Chrysanthemum seticuspe AB67923

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KNQMMFESISVLQKKDKELQNQNNVLSKKVKEVEKDLAAQQPLVEQQNPDKMLHLDPYISAPCQVGGD
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>CsAFL2 Chrysanthemum seticuspe BAN89469.1

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>GSQUA2 Gerbera hybrid CAX65661.1

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>GSQUA3 Gerbera hybrid CAX65662.1

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YSYTERQLVSADTAPRSWTLEYNKLKSRAELLQRNHRHYMGEDIESLSLKEIQNLEQQLDTGLKNIRSRK
NQLLHESISELQKKGKAIQEQNTTLTKKIKEKEKEKTITQNAQWEHHTFVDHDTTFLMPPPPPTMNIGGTY
NQDGGGGVEAVEGRSNELDLSLQPIYSCHLRCFPS

>CmFL3 Chrysanthemum morifolium ON959211

MGRGRVTLKRIENKINRQVTFSKRRSGLLKKAHEISVLCDADVALIVFSTKGKLCEYSTDSSMDRILERYE
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LRKNQLMFESISALQKKDKDMQEQNNILSKQIKEKEKEALHHEKEPQIHAAVPSLHLGILNNCDARQAGS
DWEVEEIPRQTQPLTIMPPWMVQHMNK