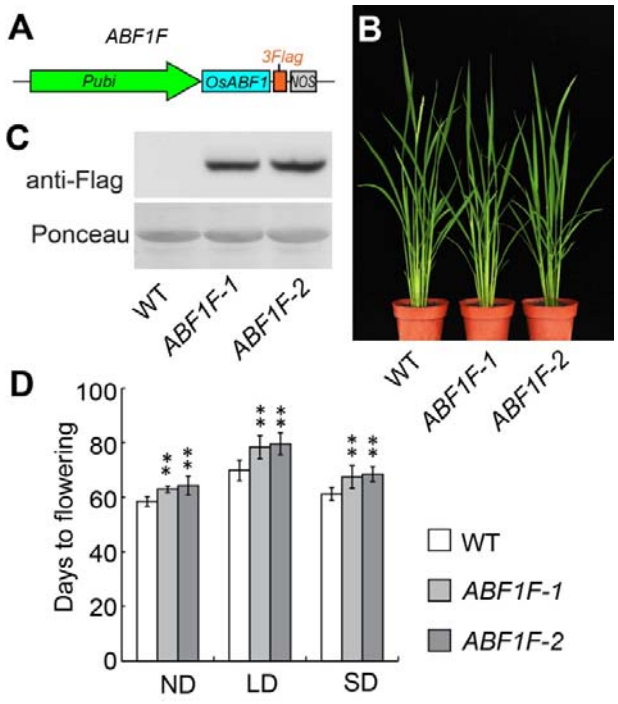
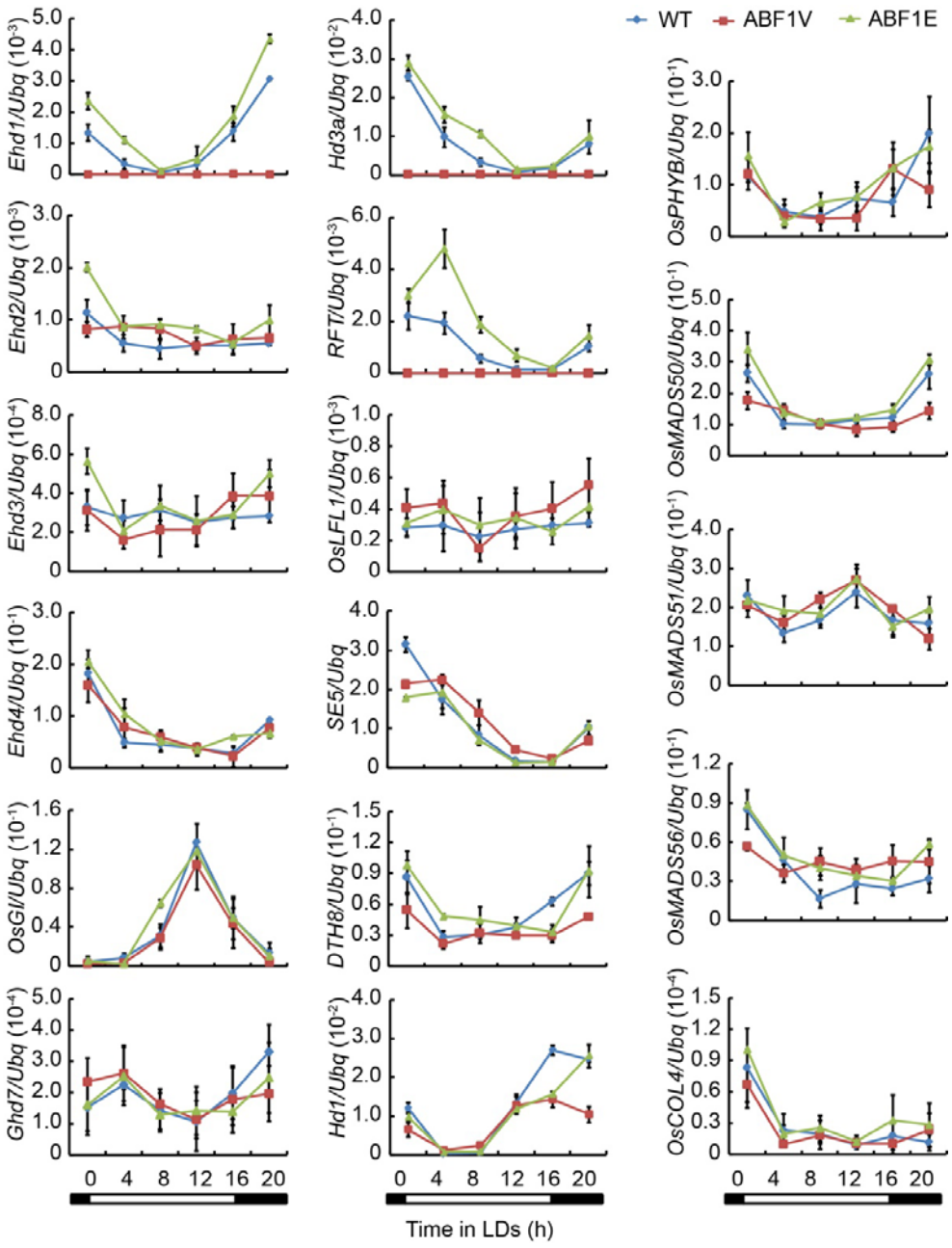
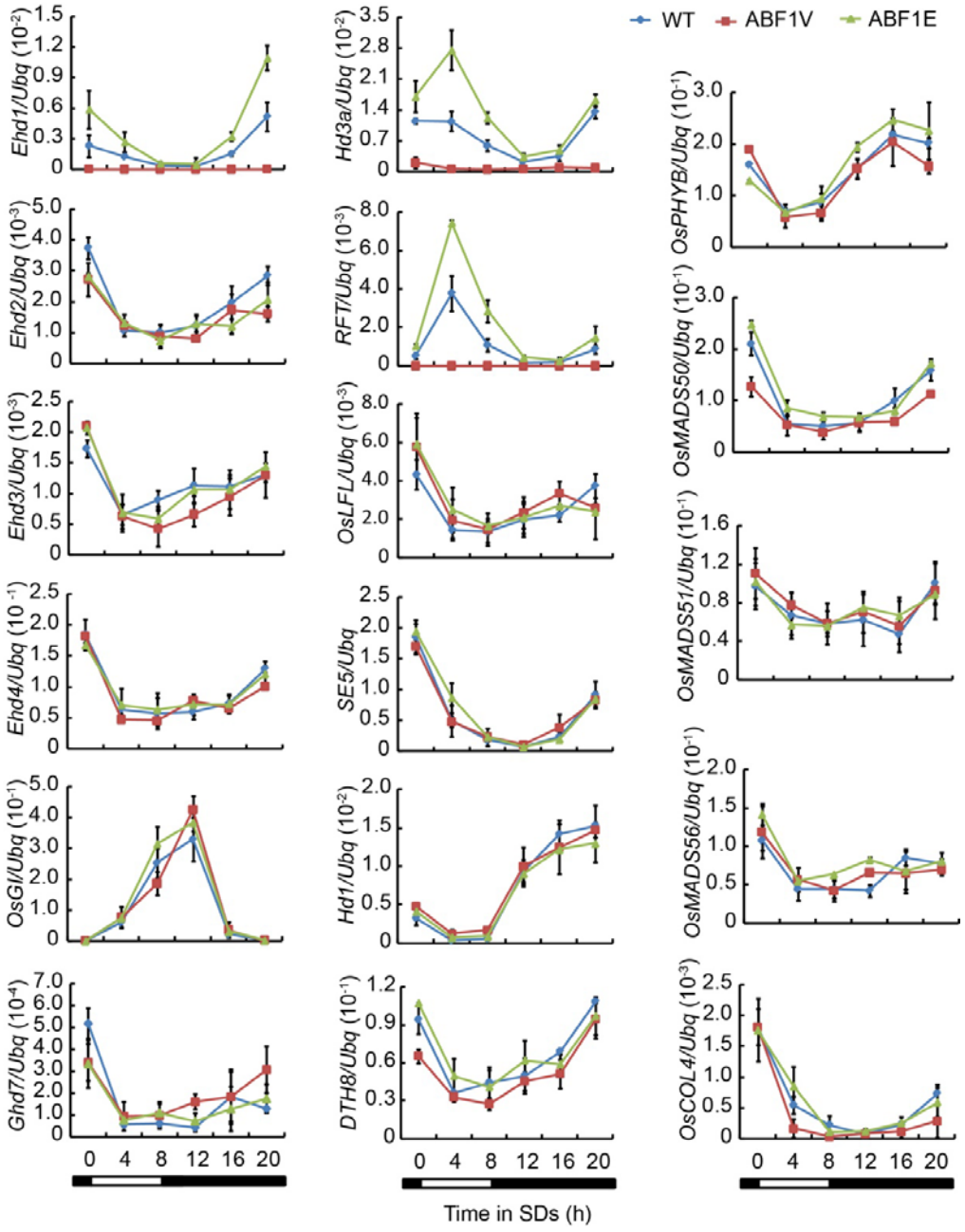
Supplemental Data



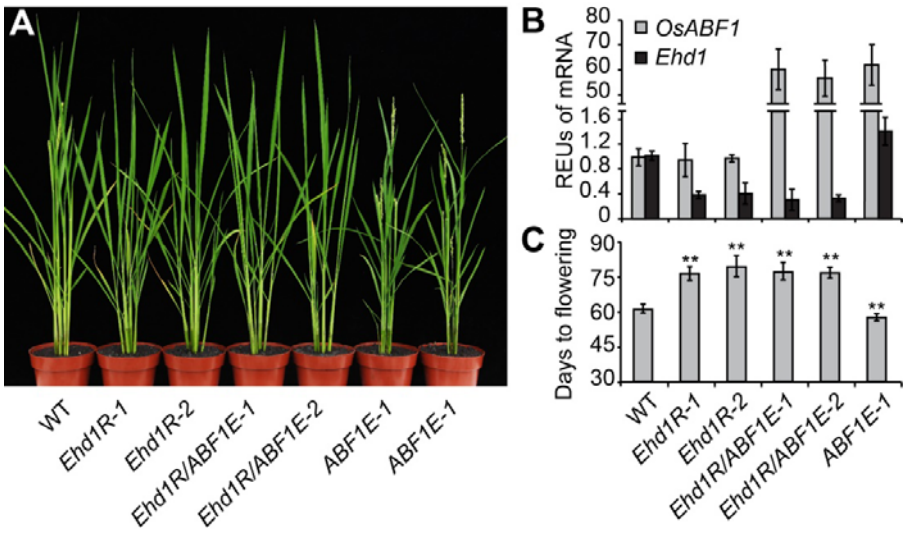
Supplemental Figure S1. Overexpression of *OsABF1* confers later flowering phenotype. A, Diagrams of the OsABF1 overexpression construct. *ABF1F*, *Pubi:OsABF1-3Flag*. B, Representative flowering image of indicated genotypes under NDs. C, Protein expression analysis of ABF1F in indicated lines. The immunoblot was probed with anti-Flag antibody. D, Flowering days of each genotype grown under NDs, LDs or SDs. Mean values ± s.d. were shown. The value of each genotype was compared to that of WT (Student's *t* tests, **P < 0.01, n=20).



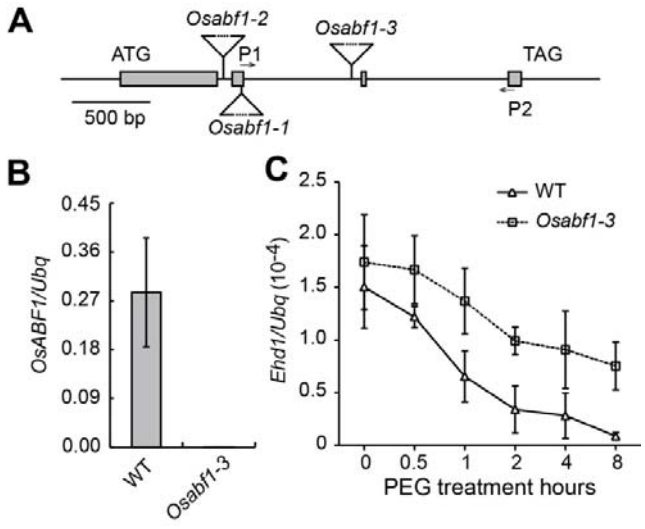
Supplemental Figure S2. Transcriptional levels of flowering-associated genes under LDs. Plants were grown for 4 weeks. Samples were collected every 4 hours from the beginning of light period. Three biological replicates of qRT-PCR experiment were performed using *Ubq* gene as the internal control and the representative results were shown. Values were mean ± s.d. (n = 3).



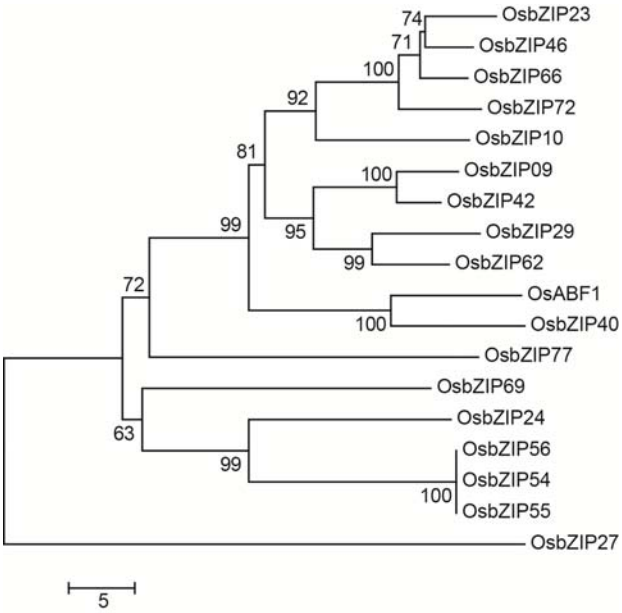
Supplemental Figure S3. Transcriptional levels of flowering-associated genes under SDs. Plants were grown for 4 weeks. Samples were collected every 4 hours from the beginning of light period. Three biological replicates of qRT-PCR experiment were performed using *Ubq* gene as the internal control and the presentative results were shown. Values were mean ± s.d. (n = 3).



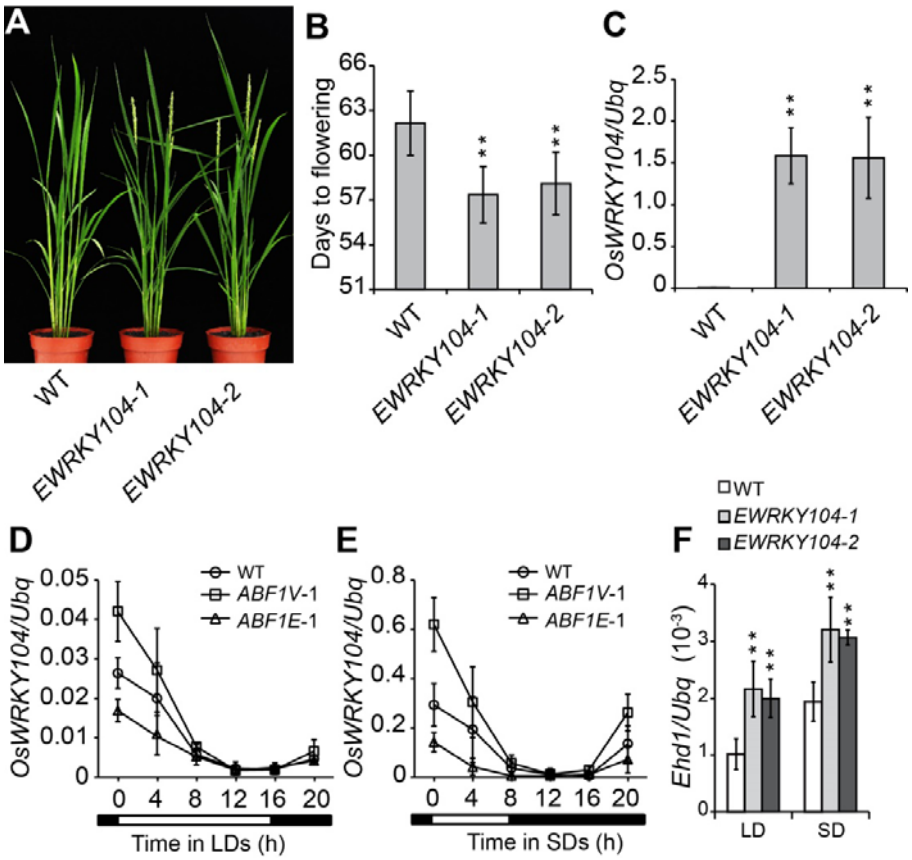
Supplemental Figure S4. Knockdown of *Ehd1* suppresses the early flowering phenotype of *ABF1E*. A, The flowering phenotypes of indicated genotypes grown under NDs. All plants are in Kita-ake background. *Ehd1R* indicates the *Ehd1-RNAi* transgenic line in T1 generation. *Ehd1R/ABF1E-1* and *Ehd1R/ABF1E-2* were two independent T1 lines generated by stacking transformation of *Ehd1-RNAi* construct into *ABF1E-1* homozygous line. B, qRT-PCR analysis of *OsABF1* or *Ehd1* mRNA expression in each genotype. The latest fully expended leaves of 4-week-old seedlings grown under LDs were sampled at the end of dark period. The relative expression units (REUs) were calculated by the formula: [(*gene*/*ubq*) of each genotype]/ [(*gene*/*ubq*) of WT]. C, Statistic analysis of flowering time of indicated genotypes as in A.



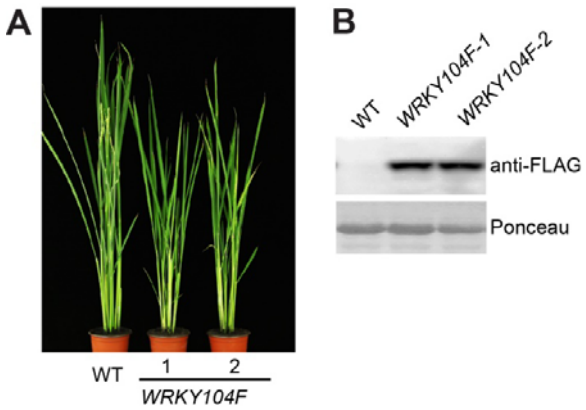
Supplemental Figure S5. Analysis of *Ehd1* mRNA expression in *Osabf1-3* mutant. A, Schematic diagram showing the T-DNA insertion positions in *Osabf1-1*, *Osabf1-2* and *Osabf1-3* mutant alleles. The boxes and solid lines present exons and introns respectively. B, Analysis of *OsABF1* mRNA level in WT and *Osabf1-3* by qRT-PCR using a pair of primers P1 and P2 as indicated in A. C, Dynamic transcription of *Ehd1* in WT under PEG treatment for the indicated periods. The seedlings were grown under continue light for 4 weeks and then subjected to PEG treatment.



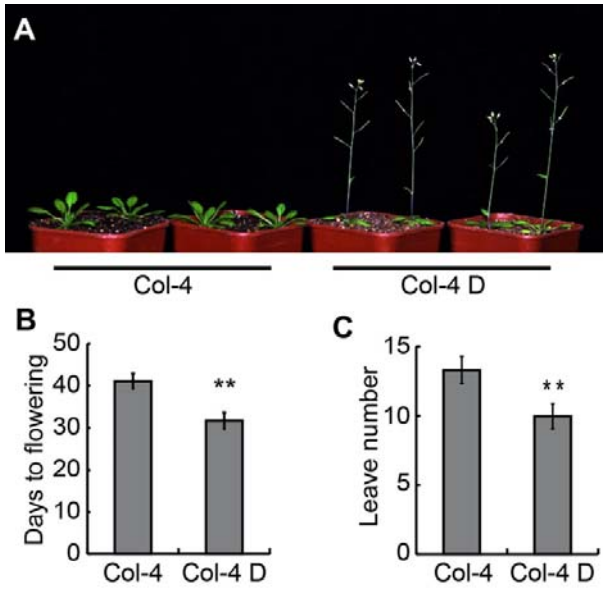
Supplemental Figure S6. Phylogenetic tree of OsABF1 and homologous proteins. Protein sequences were downloaded from the MSU Rice Genome Annotation Project (http://rice.plantbiology.msu.edu/analyses_search_locus.shtml) databases and then used for Neighbor-joining phylogenetic analysis (MEGA5.2). The scale bar indicates substitutions per site.



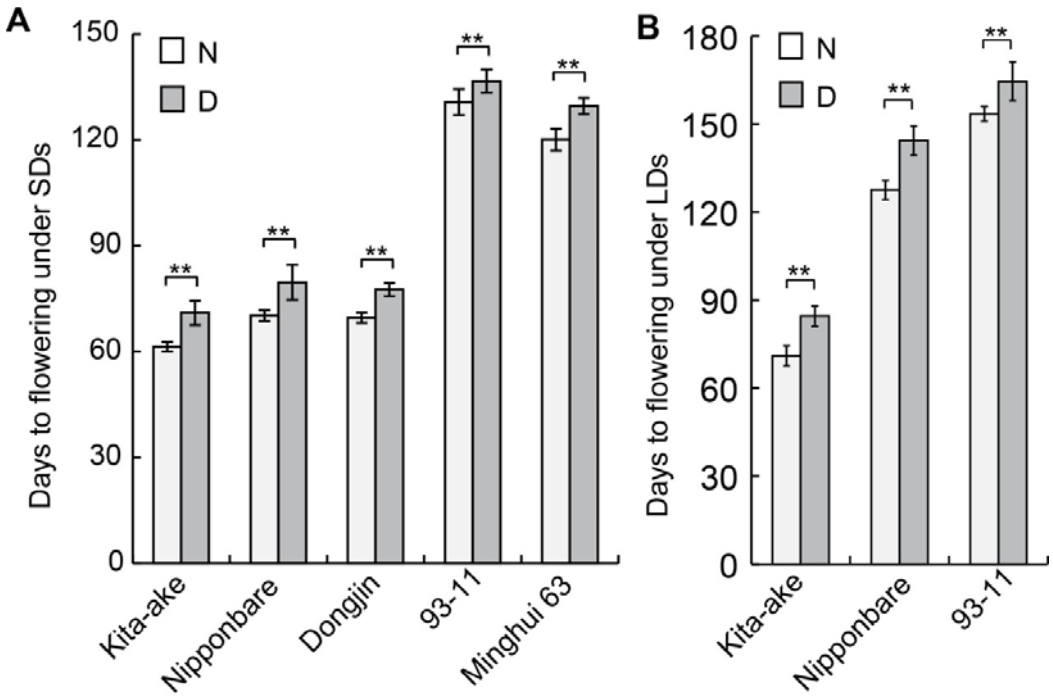
Supplemental Figure S7. EAR-OsWRKY104 hybrid transcription factor leads to early flowering phenotype. A, Representative flowering image of indicated genotypes cultured under NDs. *EWRKY104*, *Pubi:EAR4-OsWRKY104*. B, Flowering time of each genotype as in A. Mean values ± s.d. (standard deviations) were shown. The value of each genotype was compared to that of WT (Student's *t* tests, **P < 0.01, n=20). C, qRT-PCR analysis of *OsWRKY104* mRNA level in each genotype. The leaves of 4-week-old seedlings were sampled just at the end of dark period under SDs. D and E, qRT-PCR analysis of the dynamic expression of *OsWRKY104* mRNA under LDs or SDs. F, qRT-PCR analysis of *Ehd1* mRNA level in each genotype cultured under LDs or SDs. The samples were collected just at the end of dark period.



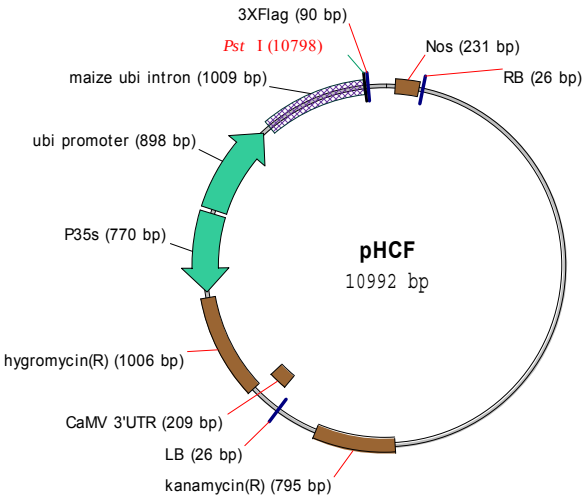
Supplemental Figure S8. Overexpression of *OsWRKY104* confers later flowering phenotype. A, Representative flowering image of indicated genotypes under LDs. *WRKY104F*, *Pubi:OsWRKY104-3Flag*. B, Protein expression analysis of WRKY104F in indicated lines. The immunoblot was probed with anti-Flag antibody.



Supplemental Figure S9. Drought accelerates flowering in Arabidopsis. A, Image of 5-week-old Columbia ecotype (Col-4) plants grown in normal (Left) or drought (right, Col-4 D) condition under LDs. B, Flowering time of the plants as in A (Student's *t* tests, **P < 0.01, n = 20). C, Leaf number of the plants as in A (Student's *t* tests, **P < 0.01, n = 20).



Supplemental Figure S10. Drought delays flowering in rice. A, Flowering time of *japonica* cultivars (Kita-ake, Nipponbare, Dongjing) and *indica* cultivars (93-11, Minghui 63) grown in normal (N) or drought condition (D) under SDs (Student's *t* tests, **P < 0.01, n = 20). B, Flowering time of indicated cultivar grown in normal (N) or drought condition (D) under LDs (Student's *t* tests, **P < 0.01, n = 20).



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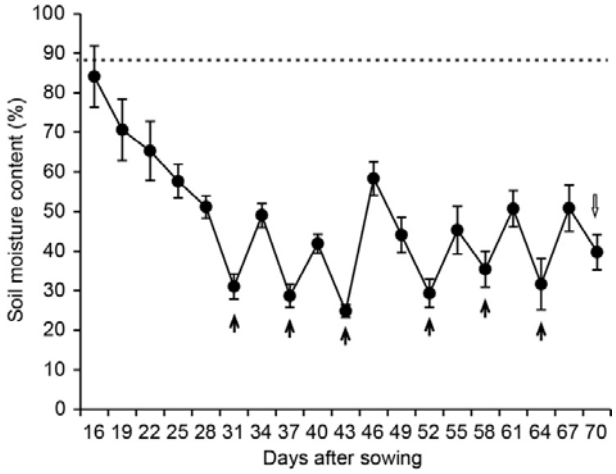
210 gggtttggtttgcccttttccttttatttcaatatatgccgtgcacttgtttgtcgggtcatcttttcatgctttttttgtcttggttgtgatgatgtggt
211 ctggttgggcggtcgttctagatcggagtagaattctgtttcaaactacctggtggatttattaattttggatctgtatgtgtgtgccatacatatt
212 catagttacgaattgaagatgatggatggaaatatcgatctaggataggtatacatgttgatgcgggttttactgatgcatatacagagatgct
213 ttttgttcgcttggttgtgatgatgtggtgtggttgggcggtcgttcattcgttctagatcggagtagaatactgtttcaaactacctggtgtattta
214 ttaattttggaactgtatgtgtgtgtcatacatcttcatagttacgagtttaagatggatggaaatatcgatctaggataggtatacatgttgatg
215 tgggttttactgatgcatatacatgatggcatatgcagcatctattcatatgctctaaccttgagtacctatctattataataaacaagtatgtttt
216 ataattattttgatcttgatatacttggatgatggcatatgcagcagctatatgtggatttttttagccctgccttcatacgctatttatttgcttggt
217 actgtttcttttgtcgatgctcaccctgttgtttggtgttacttctgcactaggtacctgcaggtcgacggatccatcgataccgtcgagatggact

acaaagacgatgacgataaagtcgagatggactacaaagacgatgacgataaagtcgagatggactacaaagacgatgacgataaagtc
gaggggggccctgaggatccccgggaattctaagaggagtccaccatggtagatctgactagtgttaacg

Supplemental Figure S11. Vector map and completed sequence of pHCF.



Supplemental Figure S12. The soil moisture contents during drought regime experiment. The arrows and the hollow arrow indicate irrigation time and flowering time of WT under drought treatment respectively. The dash line indicates saturated soil moisture content. The soil moisture content was calculated by the formula: [(total soil weight) – (dry soil weight)]/(dry soil weight). Values were mean ± s.d. (n = 5).

231 **Supplemental Table S1.** Oligonucleotide primers used in this study.

Experiment	Primer name	Sequence
	Ubq-QF	5' AACCAGCTGAGGCCCAAGA 3'
	Ubq-QR	5' ACGATTGATTTAACCAGTCCATGA 3'
	Ehd1-QF	5' CCTACAGTGATTATGGCTTCA 3'
	Ehd1-QR	5' GTGCTGCCAAATGTTGCTC 3'
	Hd1-QF	5' TCAGCAACAGCATATCTTTCTCATCA 3'
	Hd1-QR	5' TCTGGAATTTGGCATATCTATCACC 3'
	Ehd2-QF	5' CGACGACAATAGCTCGATCGC 3'
	Ehd2-QR	5' GTGCATGGTCACGGAGCCTT 3'
	Ehd3-QF	5' GGACCACCTCGTCACCTACAA 3'
	Ehd3-QR	5' CGCCGTTGGCCATGAG 3'
	Ehd4-QF	5' CAGCCAGCGGAATCATCAC 3'
	Ehd4-QR	5' CCAAATCCATCAGACCTACTCCT 3'
	OsMADS50-QF	5' CAGGCCAGGAATAAGCTGGAT 3'
	OsMADS50-QR	5' TTAGGATGGTTTGGTGTCATTGC 3'
	OsMADS51-QF	5' GTTTGCTCTGCTCCTACTC 3'
	OsMADS51-QR	5' ACTCCTCCTCCAGCATTGAA 3'
	OsMADS56-QF	5' GACCGCTATAAAGCATACACA 3'
	OsMADS56-QR	5' TCATGTGGTTAGCCACCAGC 3'
	OsGI-QF	5' GATAGACGGCACTTCAGCAGAT 3'
	OsGI-QR	5' TGGAGAAAGGTTGTGGATGC 3'
	COL4-QF	5' GGAATCAAGGCCATCGGG 3'
	COL4-QR	5' CGAGCCCGCCGACAG 3'
	SE5-QF	5' AGGACTCCCAAGCTTTTATC 3'
	SE5-QR	5' CTCCAGAATACGAGAACGAC 3'
	OsphyB-QF	5' ATGGAACAGACACAATGCTT 3'
	OsphyB-QR	5' AGCATACACCATATCAGCTT 3'
	DTH8-QF	5' CAGGAGTGCGTGTCGGAGTT 3'
	DTH8-QR	5' GGTCGTCGCCGTTGATGGT 3'
	LFL-QF	5' TTGTCATCGGAGCAAAGAAGG 3'
	LFL-QR	5' TGCCATGGGAGAGAGATAGTCA 3'
	Hd3a-QF	5' GCTCACTATCATCATCCAGCATG 3'
	Hd3a-QR	5' CCTTGCTCAGCTATTTAATTGCATAA 3'
	RFT1-QF	5' TGACCTAGATTCAAAGTCTAATCCTT 3'
	RFT1-QR	5' TGCCGGCCATGTCAAATTAATAAC 3'
	Ghd7-QF	5' GTCGCCAAATTATCAGGTGAAAA 3
	Ghd7-QR	5' ACAGGCCACATCCTTCTCCG 3'
	OsABF1-QF	5' GGAGGAGAACGCCAAGATGT 3'
	OsABF1-QR	5' GATCTCGTGCTGACGTTTTCC 3'
	OsABF1-RNAi-QF	5' GGAGATGACGCTGGAGGACTT 3'
	OsABF1-RNAi-QR	5' CCATCACCACCTGCCCCT 3'
qRT-PCR	OsbZIP40-QF	5' AGGAGAAAAATCAAAAGAGGCTTAA 3'

	OsbZIP40-QR	5' TTCCATTGAGTTGGTTCTTCGTA 3'
	OsbZIP72-QF	5' AGATATCATGGAAATGCAGAAAAAT 3'
	OsbZIP72-QR	5' GGACCAGTCAGTGTTCTTCGC 3'
	OsbZIP23-QF	5' AAATGTTGGAGCAGCAAAAGAA 3'
	OsbZIP23-QR	5' CCCGTCAGAGTCCTCCGAA 3'
	OsbZIP10-QF	5' CGCTCGTCTCAAAGAGGCAG 3'
	OsbZIP10-QR	5' ATTCATCTTCTCCTTGGACTGCT 3'
	OsbZIP66-QF	5' CATCTTCTTCGGGAACTACGG 3'
	OsbZIP66-QR	5' GACATCAGCCTATTCCCCATG 3'
	OsbZIP46-QF	5' GCAGAAAAAGCAGGTGGAAAT 3'
	OsbZIP46-QR	5' GTCAGTGTTCGTCGGAGGC 3'
	OsbZIP09-QF	5' TTCAAGAGCCAGGAAGCAGG 3'
	OsbZIP09-QR	5' GAAATCTGCGGAGCTTGTTCTC 3'
	OsbZIP42-QF	5' CAGGGGAGATTGCAGATAAGCT 3'
	OsbZIP42-QR	5' CGAGCTTGTTCGCCTGAGTT 3'
	WRKY104-QF	5' GCTTGCTCTTCAACTCTTGGGA 3'
	WRKY104-QR	5' AAGATTGGTCAGCTTTTTAGTGTCTC 3'
	WRKY104-ChIP-QFa	5' TCACAACTACAACATGGTGAGCAA 3'
	WRKY104-ChIP-QRa	5' TTCGTTTCCCCTTTAGCTTCTG 3'
	WRKY104-ChIP-QFb	5' CATGCCGAACCTTAGGTGGA 3'
	WRKY104-ChIP-QRb	5' GTCGTTTTTAGTTCGCTGTTGTGT 3'
	WRKY104-ChIP-QFc	5' GAGAAGATCTACCATTGCTCTATAGCT 3'
	WRKY104-ChIP-QRc	5' CGAGTGGATTATTACTAGCTTAGTGAAT 3'
	WRKY104-ChIP-QFd	5' CCACAAGTGACCCCATCCAT 3'
	WRKY104-ChIP-QRd	5' CCTGAGCATATCATTAAAAAAATATCT 3'
	WRKY104-ChIP-QFe	5' TTAGGATGAAGTTCTGAGCAAAAAC 3'
	WRKY104-ChIP-QRe	5' GGGTTCTATTCTAGGATGTCTCTCC 3'
	25s-ChIP-QF	5' GGGACTACCCGCTGAGTTTA 3'
	25s-ChIP-QR	5' GGACGCCTCTCCAGACTACA 3'
Gene cloning	pCold-OsABF1-F	5' ATCCGAATTCAAGCTT ATGATGGCGTCGAGGGTG 3'
	pCold-OsABF1-R	5' GCAGGTCGACAAGCTT CTACCACTCCATCGAGTTTGTTCT 3'
	pDONR-OsABF1-F	5' CAAAAAAGCAGGCTTC ATGATGGCGTCGAGGGTG 3'
	pDONR-OsABF1-R	5' CAAGAAAGCTGGGTC CCACTCCATCGAGTTTGTTCT 3'
	attB adaptor-F	5' GTGGGGACAAGTTTGTACAAAAAAGCAGGCTT C 3'
	attB adaptor-R	5' GTGGGGACCACTTTGTACAAGAAAGCTGGGTC 3'

OsABF1-OX-F	5' TCTGCACTAGGTACCTGCAG ATGATGGCGTCGAGGGTG 3'
OsABF1-OX-R	5' ATGGATCCGTCGACCTGCAG CCACTCCATCGAGTTTGTTCT 3'
OsABF1-RNAi-F	5' CAAAAAAGCAGGCTTC GCAGGAGCAGGAAGAGGCA 3'
OsABF1-RNAi-R	5' CAAGAAAGCTGGGTC GATCTCGTGCTGACGTTTTCC 3'
Ehd1-OX-F	5' TCTGCACTAGGTACCTGCAG ATGGATCACCGAGAGCTGTGG 3'
Ehd1-OX-R	5' ATGGATCCGTCGACCTGCAG GAAATTCCAAAAACATGGTCCAT 3'
Ehd1-RNAi-F	5' CAAAAAAGCAGGCTTC TTGATTTCCTGCTAAAACCTGTG 3'
Ehd1-RNAi-R	5' CAAGAAAGCTGGGTC CGAGGTCTCGTATGTCCGTGA 3'
WRKY104-OX-F	5' TCTGCACTAGGTACCTGCAG ATGAAAATTCTCGAATCTTTTGGTC 3'
WRKY104-OX-R	5' ATGGATCCGTCGACCTGCAG TCCCCATATGCATATTGGACTG 3'
pDONR-WRKY104-F	5' CAAAAAAGCAGGCTTC ATGAAAATTCTCGAATCTTTTGGTC 3'
pDONR-WRKY104-R	5' CAAGAAAGCTGGGTC TCCCCATATGCATATTGGACTG 3'
OsABF1-BD-F	5' CATGGAGGCCGAATTC ATGATGGCGTCGAGGGTGATGG 3'
OsABF1-BD-R	5' GGATCCCCGGGAATTC CTACCACTCCATCGAGTTTGTT 3'
OsABF1-HA-BD-R	5' GGATCCCCGGGAATTC TCTGGCACGTCGTAGGGGTA 3'
OsABF1-Δ1-BD-F	5' CATGGAGGCCGAATTC GGTGACAGGCCGATGTCG 3'
OsABF1-Δ3-BD-R	5' GGATCCCCGGGAATTC CTGCCCCTTGGCCGC 3'
OsABF1-Δ2-BD-R	5' CCATCACCAC GCCGACGAGGGGCAGC 3'
OsABF1-Δ2-BD-F	5' CCTCGTCGGC GTGGTGATGGGGTTCCTGAA 3'
DST-BD-F	5' CATGGAGGCCGAATTC ATGGACTCCCCGTCGCCT 3'
DST-BD-R	5' GGATCCCCGGGAATTC CTAGAGGCTCAAGTTGAGGTCGA 3'

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