

The gene encoding *Arabidopsis* Acyl-CoA-Binding Protein 3 is pathogen-inducible and subject to circadian regulation

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Supplementary Figure legends

Figure S1 Nucleotide sequence of the *ACBP3* 5'-flanking region. Nucleotide numbers begin at the 5'-end of the *ACBP3* flanking region. Upward and downward arrows indicate, respectively, the positions of the primers used corresponding to the boundaries of the truncated promoter fragments (5'-end deletions). The TATA-box is in bold and underlined, the transcriptional start site (nucleotide A) is in bold and marked as +1. The translation initiation codon is in bold italic letters. The other predicted *cis*-elements are named above nucleotide sequences and are shown in gray-filled boxes.

Table S1 Oligonucleotide primers used in this study for PCR walking, sequence analysis, EMSAs and DNase I footprinting.

Supplemental Figure S1

ML809

-1500 TGTGTCACAA AAAAAACACA GGCCCAAAGG ATACAAATAC AAGCCCAAAT
 →

-1451 CCCAACATAT ACAAATGCAC AACCTATATT GTGATATATA TATATATATA
 -1401 TATATATAGA TCGAAGCGAA TATCCGACTT TAGAAAAAAT AGTATTTGTT
 -1351 ATTTGCTTCG GTTTTTACGA TTACTACATT TTTCTATTTG CTTTGCTCCA
 -1301 AAATCTTACG AATATTCGGA TTTTTCGAAT CAAATCAAAT CGAATATTGA
 -1251 GTTAAAGCGG ATCGAACGAA TATTTTGTCC AGGACTAGTG AAGGTTGTGG
 -1201 ACGTTCACG TGTCCCTAGC TTATTATTAT TGGTCTGACA CGTCTATAGC
 -1151 TTATCTCTTC TTTTGTGTCG TATGAGCCTT TATATGTGGG ATGTCTTGGG
 -1101 CTTTATTTTG GTTTTCTCAT AACCAAGCAT TGTACTGGTA ATGATAAAAAT

EE **EE**

-1051 GAATAAAATA TTA CACTTAT GAGAAAAAAA AAAAAAAA GATGCTAAAA
 -1001 ATATTACATA TTTATGCAGA ATATAGAATA AATCACACAT ACTGATTTAA
 -951 TAAATGCTCT ATCAACTCTG ATATATAAGG AGATTTTGAA AAGAAAAAAA
 -901 CAAAGAGGAG ACTTTTGTG TGCACAGTG ATTTTAGTAA TTTTGGCAAA
 -851 GTTAAAGTTG CCTTTCTTTG TTTGGTAAAG TCGTTAGGGA AAGAAACAAA
 -801 AACTTTTTAT TAGTGAAAAC CTCGTTAGAC TGATTTTTAA GTTTCTTCGT
 -751 GAAGTGTGTT GTTACCCATT TATCAAGTTT TTTTAAACCG TAGTTGAGCA
 -701 AATAAGGACG AGTGTCATGA TTGTGGTTCC GTCACAACT TATCGACTGG

ML968

-651 GTTTGGCCAT GTAGGTGAAT AGGTAGGAAG ACATGGGCCT TAGTCTTATC
 → **P-box**

-601 ATATTATGCA TTAACATAGG CCCATGTTTT GTTGTAAAG GCCCAAATA
 → **S-box**

ML969

-551 ACTATGAACT GTCCTTGCAT ATTACCTCAA AAACCTTTAA TCTCTCTTTT
 -501 GGTCTTGTT TCTATTTCCA TTTCTATACC ATTCAAACCT ATAACCTAAT

INR **ML970** **GT-1 cis-element**

-451 TTCAGCATCA TTAAAGCTTG GAATGGGAGT AATTTTCAAT GAGCTGGTTT
 → **CAAT-box**

-401 TGTGTTATTC AAAAAAATC ACTAAACATCAAAAT TAAGGAAATT
 → **Dof-box** **Dof-box**

-351 AGTTTTCATA AAAGTGTGTT TTTTAAAGC CAGATTTTTA TCATACGAAA
 → **ML971** **CAAT-box**

-301 ATCCAAAAA AAAAAAAA AAAAAATTA AAAAACTCTT CCAATCATT
 → **Dof-box** **Dof-box** **ML972**

-251 TTTTAGTTTG TAAAGAGTCC AAAGACAAAG ATCCAGTGAG AGCAAAAAA
 → **Dof-box**

-201 AAAGCGGCGC GCTGCATAAG GATTAAGGAA GGAGCCGGTG AGGTGGAGAA
 → **ML973**

-151 GAGGATAAGA ATAAAACCGC AAGAGCCAAG TCAGCAGTCA TAGCGGTTAG
 → **TATA-box**

-101 GCGTTGAGAA AATATAATTG ACGGACCCGC TTCCCGTTTA AAGCCGAATA
 -51 TGCTTTCTTC TTTGTCTCTC ATTTATTCCT TTTTCTTTTCT CTTCTTTTCT
 +1 AACCTTTCGT ATAATTACAT TCTTTGCCTT TCTCCTTCTT CTTCTTTAGA
 51 TCCTAAGTAT CTTACTTTCC TTTTTCATCA TCTTCTTCGA TCATGGAGGT
 101 TTTCTTAGAG ATGCTTCTCA CGGCGGTTGT TGCTCTCTTG TTTTCTTTCC
 151 TTTTGGCCAA GCTCGTTTCT GTTGCTACGG TGGAGAACGA TTTGAGTTCT
 201 GATCAGCCGC TCAAGCCCGA GAT
 →

ML810

Table S1 Oligonucleotide primers used in this study for PCR walking, sequence analysis, EMSAs and DNase I footprinting

Primer	Sequence (from 5' to 3')	Nucleotide location	Orientation	Description
ML809	<u>AAGGATCC</u> AAATACAAGCCAAATCCCAAC	-1475 to -1446 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT436, added <i>Bam</i> HI restriction site underlined
ML968	<u>TAGGATCC</u> CATGGGCCTTAGTCTTATC	-629 to -600 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT437, added <i>Bam</i> HI restriction site underlined
ML969	<u>CTGGATCC</u> GCATATTACCTCAAAAACC	-543 to -517 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT438, added <i>Bam</i> HI restriction site underlined
ML970	<u>TTGGATCC</u> GGAGTAATTTTCAATGAGC	-434 to -407 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT439, added <i>Bam</i> HI restriction site underlined
ML971	<u>TAGGATCC</u> CTCTTCCAATCATTA	-274 to -252 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT440, added <i>Bam</i> HI restriction site underlined
ML972	<u>AAGGATCC</u> AGTGAGAGCAAAAAAAAAAGCGGC	-226 to -194 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT441, added <i>Bam</i> HI restriction site underlined
ML973	<u>GAGGATCC</u> GAATAAAACCGCAAGAGCCAAG	-151 to -122 in <i>ACBP3</i> 5'-flanking region	Forward	For construction of pAT442, added <i>Bam</i> HI restriction site underlined
ML810	<u>ATCCCGGG</u> CTTGAGCGGCTGATCAGAAC	+196 to +223 in <i>ACBP3</i> 5'-flanking region	Reverse	For construction of <i>ACBP3pro::GUS</i> deletion series, added <i>Sma</i> I restriction site underlined
GUS-3'	TCCACAGTTTTTCGCGATCCA	+64 to +84 in pBI101.3	Reverse	For identification of transgenic lines with <i>ACBP3</i> 5'-flanking sequence-specific forward primers by PCR
ML1112	CATA <u>AAAGTGTG</u> TTTTTTAA <u>AGCCAG</u> ATT	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of Gp-I-Dof-wt probe used in EMSAs, Dof-boxes underlined
ML1113	AATCTGG <u>CTTTTAAAAA</u> CACAC <u>TTTTATG</u>	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of Gp-I-Dof-wt probe used in EMSAs, Dof-boxes underlined
ML1114	GTAAAGAGTCCAAAGACA <u>AAAGATCC</u>	-242 to -218 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of Gp-II-Dof-wt probe used in EMSAs, Dof-boxes underlined
ML1115	CGGAT <u>CTTTGTCTTTGGACTCTTTA</u>	-242 to -218 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of Gp-II-Dof-wt probe used in EMSAs, Dof-boxes underlined
ML1116	AAAAAA <u>AGCGGCGCGC</u>	-206 to -190 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of Gp-III-Dof-wt probe used in EMSAs, Dof-box underlined
ML1117	GCGCGCC <u>GCTTTTTTTT</u>	-206 to -190 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of Gp-III-Dof-wt probe used in EMSAs, Dof-box underlined
ML1160	CATAC <u>ACGTGTG</u> TTTTTTAAAGCCAGATT	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of Dof-(-341/-338)-mut probe used in EMSAs, mutated Dof-box (-341/-338) underlined
ML1161	AATCTGGCTTTTTAAAAACAC <u>ACGTGTATG</u>	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of Dof-(-341/-338)-mut probe used in EMSAs, mutated Dof-box (-341/-338) underlined
ML1162	CATAAAAGTGTGTTTTTTAC <u>AGCCAG</u> ATT	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of Dof-(-326/-323)-mut probe used in EMSAs, mutated Dof-box (-326/-323) underlined

ML1163	AATCTGGC <u>GTG</u> TAAAAAACACACTTTTATG	-345 to -316 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of Dof(-326/-323)-mut probe used in EMSAs, mutated Dof-box (-326/-323) underlined
ML1198	CAATGAGCTGGTTTTTGTATTTC	-415 to -392 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of GT-1(-406/-401)-wt probe used in EMSAs, GT-1 <i>cis</i> -element (-406/-401) underlined
ML1199	GAAATAACA <u>AAAACC</u> AGCTCATTG	-415 to -392 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of GT-1(-406/-401)-wt probe used in EMSAs, GT-1 <i>cis</i> -element (-406/-401) underlined
ML1200	CAATGAGCTCCTTTTTGTATTTC	-415 to -392 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of GT-1(-406/-401)-mut probe used in EMSAs, mutated GT-1 <i>cis</i> -element (-406/-401) underlined
ML1201	GAAATAACA <u>AAAAGG</u> AGCTCATTG	-415 to -392 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of GT-1(-406/-401)-mut probe used in EMSAs, mutated GT-1 <i>cis</i> -element (-406/-401) underlined
ML1451	CCTCAAAAACCTT <u>TAA</u> TCTCTC	-527 to -506 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of S-box(-516/-512)-wt probe used in EMSAs, S-box (-516/-512) underlined
ML1452	GAGAGAT <u>TAAAGG</u> TTTTGAGG	-527 to -506 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of S-box(-516/-512)-wt probe used in EMSAs, S-box (-516/-512) underlined
ML1453	CCTCAAAAACCCAG <u>TCT</u> CTCTC	-527 to -506 in <i>ACBP3</i> 5'-flanking region	Forward	For preparation of S-box(-516/-512)-mut probe used in EMSAs, mutated S-box (-516/-512) underlined
ML1454	GAGAGAG <u>ACTGG</u> TTTTGAGG	-527 to -506 in <i>ACBP3</i> 5'-flanking region	Reverse	For preparation of S-box(-516/-512)-mut probe used in EMSAs, mutated S-box (-516/-512) underlined
ML1171	TCAGCATCATTAAAGCTTGG	-450 to -431 in <i>ACBP3</i> 5'-flanking region	Forward	5'-end labeled with 6-FAM for preparation of DNase I footprinting probe
ML1172	GAATAGGAGAAGAGGTGGAG	-162 to -143 in <i>ACBP3</i> 5'-flanking region	Reverse	5'-end labeled with NED for preparation of DNase I footprinting probe