

Figure S1

Method used for exogenous application of ABA. The ABA or mock solutions are applied in soil using a pipette tip as a funnel. Treatments started early in development (3 days post germination), thus before the floral transition.



Figure S2

Activated ABA signaling inhibits flowering under SDs. Rosette leaves mean number at flowering of wild type (Col–0) and mutant hab1-1 abi1-2 abi2-2 grown under SDs. Student's t test P value ≤ 0.001 (***) compared to Wild Type.

Fig			MOCK		ABA 25µM				
1	A	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test MOCK vs ABA 25µM
		WT Col-0	10.3	0.3	9-12	8.6	0.6	5-10	P< 0.001
		aba1–6	17.8	0.7	16-22	11.9	0.9	8-17	P< 0.001
		aba2-1	16.9	0.7	13-21	8.8	0.5	7-13	P< 0.001
		One-way ANOVA with pos	st-HOC Tukey HS	D Test	C	-			
			p-value	۱n بدی		-			
		WT Col vs aba1-6	1.01E-03	**	p<0.01	-			
		w = Cot vs aba2 -1	2.77E.01		p~0.01 NS	_			
		<i>ubu1–</i> 0 v5 <i>ubu2–</i> 1	2.77E-01		113	-			
			Normal V	Waterir	ıg				
	В	Genotype	Rosette leaves	SE	range	t-test			
		WT Col-0	13.9	0.5	12-16				
		aba1–6	17.1	0.3	16-18	P<0.001			
		ft-10	40.9	1.4	36-48				
		ft-10 aba1-6	53.3	1.3	40-63	P<0.001			
		ft-10 tsf-1	53.9	0.6	51-55				
		ft-10 tsf-1 aba1-6	58.4	1.4	53-64	P=0.018			
		gi-2	61.9	1.0	59-67				
		gi–2 aba1–6	62.0	1.2	54-73	P=0.945			
			ng	_					
	С	Genotype	Rosette leaves	SE	range	t-test			
		WT Col-0	6.5	0.2	5-8	_			
		aba1–6	7.8	0.2	7–9	P<0.001			
		ft=10	20.8	0.5	19–23	_			
		ft-10 aba1-6	24.9	0.5	24–28	P<0.001			
		<u>co-10</u>	36.0	0.7	31-40	-			
		<i>co</i> -10 <i>aba</i> 1-6	36.5	1.0	28–43	P=0.484			
Fig			Normal	Waterin	ıg	Low Watering			
3	Α	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test NW vs LW
_		WT Col-0	15.9	0.4	14-18	11.7	0.5	9–15	P<0.001
		cdf1-R cdf2-1 cdf3-1 cdf5-1	7.8	0.1	6-9	58	0.0	5-7	P<0.001
		cdf1-R cdf2-1 cdf3-1 cdf5-1 gi-100	9.2	0.2	8-11	8.9	0.2	8-10	P=0.311
				• • -			•.=		
			Normal	Waterir	ıg	Low Wa	tering		
	В	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test NW vs LW
		WT Col-0	55.7	0.9	51-62	63.4	2.4	55-75	P=0.003
		co-10	57.5	1.3	51-65	73.2	2.8	54-85	P<0.001
		cdf1-R cdf2-1 cdf3-1 cdf5-1	10.5	0.4	8-14	10.2	0.8	7-15	P=0.729
			Normal	Waterin	ıg	-			
	G	Genotype	Rosette leaves	SE	range	t-test			
		WT Col-0	14.0	0.0	14	_			
		aba1-6	22.7	4.0	16-27	P<0.001			
		elf3-1	4.1	0.4	4-5				
		elf3-1 aba1-6	6.5	1.6	4-9	P<0.001			

Fig	Fig		Normal	Waterir	ıg	Low Watering			
4	А	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test NW vs LW
		WT Ler	8.2	0.2	7–9	6.9	0.1	6–8	P<0.001
		aba1–1	9.4	0.3	8-11	9.0	0.3	8-10	P=0.365
		aba1–3	9.3	0.2	8-11	9.3	0.2	8-10	P=0.446
		abi1–1	8.5	0.3	7–9	9.5	0.3	8-10	P<0.001
		One-Way ANOVA with po	ost-HOC Tukey HS	D Test		_			
		Normal Watering Genotype pair	p-value	in	ference				
		WT Ler vs aba1-1	1.01E-03	**	p<0.01				
		WT Ler vs aba1-3	3.98E-03	**	p<0.01	_			
		WT Ler vs abi1-1	8.56E-01		NS				
		<i>aba1–1</i> vs <i>aba1–3</i>	9.00E-01		NS	_			
		<i>aba1–1</i> vs <i>abi1–1</i>	5.83E-02		NS	_			
		<i>aba1–3</i> vs <i>abi1–1</i>	1.30E-01		NS	_			
			Normal	Waterir	ng	_			
	B	Genotype	Rosette leaves	SE	range	-			
		WT Ler	37.9	0.7	33-41	_			
		aba1–3	37.0	1.2	27–42	_			
		abi1–1	27.0	1.0	20-32	_			
		One-Way ANOVA with po	ost-HOC Tukey HS	D Test		_			
		Normal Watering Genotype pair	p-value	in	ference	-			
		WT Ler vs aba1-3	7.76E-01		NS				
		WT Ler vs abi1-1	1.01E-03	**	p<0.01	_			
		<i>aba1–3</i> vs <i>abi1–1</i>	1.01E-03	**	p<0.01	_			
Fig			Normal	Waterir	ıg	Low Wa	atering		
5	F	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test NW vs LW
		WT Ler	35.9	0.5	32-38	38.4	0.8	35-44	P=0.016

5	F	Genotype	Rosette leaves	SE	range	Rosette leaves	SE	range	t-test NW vs LW
		WT Ler	35.9	0.5	32-38	38.4	0.8	35–44	P=0.016
		abi1–1	27.6	0.8	23-32	31.9	1.3	21-36	P=0.019
		35S::GI	13.6	0.3	12-16	11.8	0.2	11-13	P<0.001
		35S::GI abi1–1	12.6	0.5	10-17	17.5	0.5	15-20	P<0.001

One-Way ANOVA with p	post-HOC Tukey I	HSD Test
Normal Watering Genotype pair	p-value	inference
WT Ler vs abi1-1	1.01E-03	** p<0.01
WT Ler vs 35S::GI	1.01E-03	** p<0.01
WT Ler vs 35S::GI abi1-1	1.01E-03	** p<0.01
<i>abi1–1</i> vs <i>35S::GI</i>	1.01E-03	** p<0.01
<i>abi1–1</i> vs <i>35S::GI abi1–1</i>	1.01E-03	** p<0.01
35S::GI vs 35S::GI abi1–1	5.07E-01	NS

Fig 6

		Normal Watering				
С	Genotype	Rosette leaves	SE	range		
	WT Ler	28.9	1.4	25-37		
	abi1–1	17.0	0.4	16-19		
	soc1–1	50.3	1.9	42-59		
	abi1–1 soc1–1	53.7	1.3	39-61		

One-Way ANOVA with post-HOC Tukey HSD Test					
Genotype pair	p-value	inference			
WT Ler vs abi1-1	1.01E-03	** p<0.01			
WT Ler vs soc1-1	1.01E-03	** p<0.01			
WT Ler vs abi1-1 soc1-1	1.01E-03	** p<0.01			
abil-1 vs soc1-1	1.01E-03	** p<0.01			
abil-1 vs abil-1 soc1-1	1.01E-03	** p<0.01			
<i>soc1–1</i> vs <i>abi1–1 soc1–1</i>	3.25E-01	NS			

			Normal	Waterin	ıg	
6	D	Genotype	Rosette leaves	SE	range	•
		WT Ler	8.3	0.2	8–9	
		abi1–1	8.4	0.2	8–9	_
		soc1–1	12.5	0.2	12-13	_
		abi1–1 soc1–1	15.0	0.2	14–16	-
		One-Way ANOVA with	post-HOC Tukey HS	D Test		
		Genotype pair	p-value	in	ference	-
		WT Ler vs abi1-1	7.96E-01		NS	
		WT Ler vs soc1-1	5.69E-06	***	p<0.001	
		WT Ler vs abi1-1 soc1-1	6.88E-15	***	p<0.001	
		<i>abi1–1</i> vs <i>soc1–1</i>	7.08E-05	***	p<0.001	
		abi1–1 vs abi1–1 soc1–1	2.80E-14	***	p<0.001	
		soc1–1 vs abi1–1 soc1–1	3.62E-10	***	p<0.001	
Fig			Normal	Waterir	ıg	
Sup	p 2	Genotype	Rosette leaves	SE	range	t-test
		WT Col-0	60.6	2.1	49-80	_
		hab1-1 abi1-2 abi2-2	80.4	1.9	68-101	P<0.001

Flowering time of mutant and transgenic plants used in this study. Mean values of vegetative leaves and standard error (SE) of plants under different watering conditions. Two tailed Student's t test values (P) and One-Way ANOVA (P) are shown, NS (Not Significant).

		Tuke	ey HSD
н	GI expression Genotype pair	p-value	inference
	WT Col-0 vs aba1-6	9.00E-01	NS
	WT Col-0 vs elf3-1	1.01E-03	** p<0.01
	WT Col-0 vs elf3-1 aba1-6	1.01E-03	** p<0.01
	aba1–6 vs <i>elf3–1</i>	1.01E-03	** p<0.01
	aba1–6 vs <i>elf3–1 aba1–6</i>	1.01E-03	** p<0.01
	elf3–1 vs <i>elf3–1 aba1–6</i>	9.00E-01	NS
		Tuka	W HSD
I	CO expression Genotype pair	p-value	inference
	WT Col-0 vs <i>aba1-6</i>	1.29E-01	NS
	WT Col-0 vs elf3-1	8.99E-01	NS
	WT Col-0 vs <i>elf3-1 aba1-6</i>	8.96E-01	NS
	aba1–6 vs <i>elf3–1</i>	3.57E-02	* p<0.05
	aba1-6 vs <i>elf3-1 aba1-6</i>	3.76E-01	NS
	elf3-1 vs elf3-1 aba1-6	5.19E-01	NS
		Tuke	y HSD
J	FT expression Genotype pair	Tuke p-value	ey HSD inference
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i>	Tuke p-value 9.00E-01	ey HSD inference NS
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>elf3-1</i>	Tuke p-value 9.00E-01 1.46E-02	y HSD inference NS * p<0.05
J	FT expression Genotype pair WT Col–0 vs <i>aba1–6</i> WT Col–0 vs <i>elf3–1</i> WT Col–0 vs <i>elf3–1 aba1–6</i>	Tuke p-value 9.00E-01 1.46E-02 9.00E-01	y HSD inference NS * p<0.05 NS
J	FT expression Genotype pair WT Col–0 vs <i>aba1–6</i> WT Col–0 vs <i>elf3–1</i> WT Col–0 vs <i>elf3–1 aba1–6</i> aba1–6 vs <i>elf3–1</i>	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03	y HSD inference NS * p<0.05 NS ** p<0.01
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>elf3-1</i> WT Col-0 vs <i>elf3-1 aba1-6</i> aba1-6 vs <i>elf3-1 aba1-6</i>	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01	y HSD inference NS * p<0.05 NS ** p<0.01 NS
J	FT expression Genotype pair WT Col-0 vs aba1-6 WT Col-0 vs elf3-1 WT Col-0 vs elf3-1 aba1-6 aba1-6 vs elf3-1 aba1-6 vs elf3-1 aba1-6 elf3-1 vs elf3-1 aba1-6	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05
J	FT expression Genotype pair WT Col-0 vs aba1-6 WT Col-0 vs elf3-1 WT Col-0 vs elf3-1 aba1-6 aba1-6 vs elf3-1 aba1-6 vs elf3-1 aba1-6 vs elf3-1 aba1-6 elf3-1 vs elf3-1	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 * p<0.05
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>elf3-1</i> WT Col-0 vs <i>elf3-1</i> aba1-6 vs <i>elf3-1</i> aba1-6 vs <i>elf3-1</i> aba1-6 elf3-1 vs <i>elf3-1</i> aba1-6 elf3-1 vs <i>elf3-1</i> aba1-6	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>elf3-1</i> WT Col-0 vs <i>elf3-1</i> aba1-6 vs <i>elf3-1</i> aba1-6 elf3-1 vs <i>elf3-1</i> aba1-6 elf3-1 vs <i>elf3-1</i> aba1-6 TSF expression Genotype pair WT Col-0 vs <i>aba1-6</i>	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value 7.44E-02	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference NS
J	FT expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>elf3-1</i> WT Col-0 vs <i>elf3-1</i> aba1-6 vs <i>elf3-1</i> aba1-6 elf3-1 vs <i>elf3-1</i> aba1-6 TSF expression Genotype pair WT Col-0 vs <i>aba1-6</i> WT Col-0 vs <i>aba1-6</i>	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value 7.44E-02 4.35E-01	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference NS NS
J	FT expression Genotype pair WT Col-0 vs <i>aba1</i> -6 WT Col-0 vs <i>elf3</i> -1 WT Col-0 vs <i>elf3</i> -1 aba1 -6 vs <i>elf3</i> -1 aba1 -6 vs <i>elf3</i> -1 aba1 -6 elf3 -1 vs <i>elf3</i> -1 aba1 -6 TSF expression Genotype pair WT Col-0 vs <i>aba1</i> -6 WT Col-0 vs <i>elf3</i> -1 WT Col-0 vs <i>elf3</i> -1	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value 7.44E-02 4.35E-01 1.49E-01	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference NS NS NS
J	FT expression Genotype pair WT Col-0 vs <i>aba1</i> -6 WT Col-0 vs <i>elf3</i> -1 WT Col-0 vs <i>elf3</i> -1 aba1 -6 vs <i>elf3</i> -1 aba1 -6 vs <i>elf3</i> -1 aba1 -6 elf3 -1 vs <i>elf3</i> -1 aba1 -6 WT Col-0 vs <i>aba1</i> -6 WT Col-0 vs <i>elf3</i> -1 WT Col-0 vs <i>elf3</i> -1 WT Col-0 vs <i>elf3</i> -1	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value 7.44E-02 4.35E-01 1.49E-01 3.44E-03	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference NS NS NS ** p<0.01
J	FT expression Genotype pair WT Col-0 vs aba1-6 WT Col-0 vs elf3-1 WT Col-0 vs elf3-1 aba1-6 aba1-6 vs elf3-1 aba1-6 elf3-1 vs elf3-1 aba1-6 rSF expression Genotype pair WT Col-0 vs elf3-1	Tuke p-value 9.00E-01 1.46E-02 9.00E-01 6.89E-03 9.00E-01 1.08E-02 Tuke p-value 7.44E-02 4.35E-01 1.49E-01 3.44E-03 9.00E-01	y HSD inference NS * p<0.05 NS ** p<0.01 NS * p<0.05 y HSD inference NS NS NS ** p<0.01 NS NS NS NS ** p<0.01 NS
	H	H GI expression Genotype pair WT Col-0 vs aba1-6 WT Col-0 vs elf3-1 WT Col-0 vs elf3-1 aba1-6 vs elf3-1 wtr Col-0 vs elf3-1 Wtr Col-0 vs aba1-6 Wtr Col-0 vs elf3-1 aba1-6 vs elf3-1 aba1-6 vs elf3-1 aba1-6 vs elf3-1	Tuke H GI expression Genotype pair p-value WT Col-0 vs aba1-6 9.00E-01 WT Col-0 vs elf3-1 1.01E-03 WT Col-0 vs elf3-1 aba1-6 1.01E-03 aba1-6 vs elf3-1 1.01E-03 aba1-6 vs elf3-1 0.01E-03 aba1-6 vs elf3-1 0.01E-03 aba1-6 vs elf3-1 0.01E-03 elf3-1 vs elf3-1 aba1-6 9.00E-01 Tuke Tuke I CO expression Genotype pair p-value WT Col-0 vs elf3-1 8.99E-01 WT Col-0 vs elf3-1 WT Col-0 vs elf3-1 3.57E-02 aba1-6 vs elf3-1 aba1-6 3.76E-01 elf3-1 vs elf3-1 aba1-6 5.19E-01 elf3-1 vs elf3-1 aba1-6 5.19E-01

One-Way ANOVA (P) for the expression analysis of Fig 3H-K are shown, NS (Not Significant).

Allele	Reference	Background
aba1-6	(Niyogi et al., 1998)	Col-0
aba2-1	(Léon-Kloosterziel et al., 1996)	Col-0
ft-10	(Yoo et al., 2005)	Col-0
ft-10 aba1-6	This Work	Col-0
ft-10 tsf-1	(Jang et al., 2009)	Col-0
ft-10 tsf-1 aba-6	This Work	Col-0
gi-2	(Fowler et al., 1999)	Col-1
gi-2 aba1-6	This Work	Col-1
<i>co-10</i>	(Laubinger et al., 2006)	Col-0
<i>co-10 aba1-6</i>	This Work	Col-0
elf3-1	(Zagotta et al., 1992)	Col-0
elf3-1 aba1-6	This Work	Col-0
cdf1-R cdf2-1 cdf3-1 cdf5-1	(Fornara et al., 2009)	Col-0
gi-100 cdf1-R cdf2-1 cdf3-1 cdf5-1	(Fornara et al., 2009)	Col-0
aba1-1	(Koornneef et al. 1982)	Ler
aba1-3	(Koornneef et al. 1982)	Ler
abi1-1	(Koornneef et al., 1984)	Ler
soc1-1	(Onouchi et al., 2000)	Ler
abi1-1 soc1-1	This Work	Ler
35S::GI	(Mizoguchi et al., 2005)	Ler
abi1-1 35S::GI	This Work	Ler
hab1-1 abi1-2 pp2ca-1	(Rubio et al., 2009)	Col-0
hab1-1 abi1-2 abi2-2	(Rubio et al., 2009)	Col-0

Genotypes used in this study

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Gene	Forward	Use
aba1–6	GCTCGGAGTAAAGGCGGCGA	Genotyping
	CAGGAAGTCCCCGTGACGCC	
abi1–1	ATGGAGGAAGTATCTCCGGCG	Genotyping
	TCAGTTCAAGGGTTTGCTCTTGAG	
CO WT	atgttgaaacaagagagtaac	Genotyping
	tcattgtgttactgttatcatetg	
<i>co</i> –10	atgttgaaacaagagagtaac	Genotyping
	gccttttcagaaatggataaatagccttgcttcc	
<u>attb</u> pABI1	GGGGACAAGTTTGTACAAAAAGCAGGCTCTCTTATCCACTTTGCCCGC	Cloning
	GGGGACCACTTTGTACAAGAAAGCTGGGTGCGATCGCCGGAGATACTTC	
ACT	CTCTCCCGCTATGTATGTCGCCA	qPCR
	GTGAGACACCATCACCAG	
СО	CTACAACGACAATGGTTCCATTAAC	qPCR
	CAGGGTCAGGTTGTTGC	
FT	CTAGCAACCCTCACCTCCGAGAATA	qPCR
	CTGCCAAGCTGTCGAAACAATATAA	-
TSF	CTCGGGAATTCATCGTATTG	qPCR
	CCCTCTGGCAGTTGAAGTAA	-
SOC1	ATCGAGGAGCTGCAACAGAT	qPCR
	GCTACTCTCTTCATCACCTCTTCC	
GI	AATTCAGCACGCGCCTATTG	qPCR
	GTTGCTTCTGCTGCAGGAACTT	•

Primers used in this study