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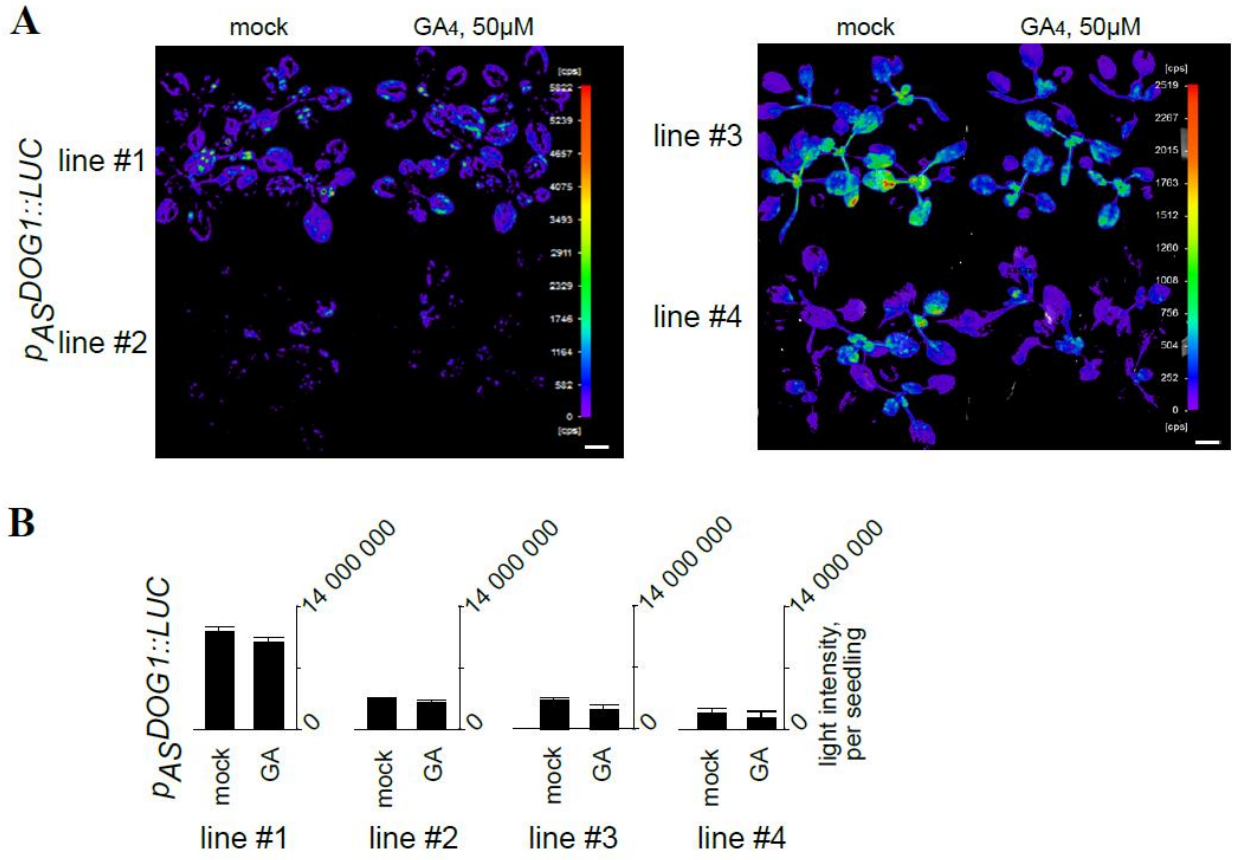
Appendix Figure S1.

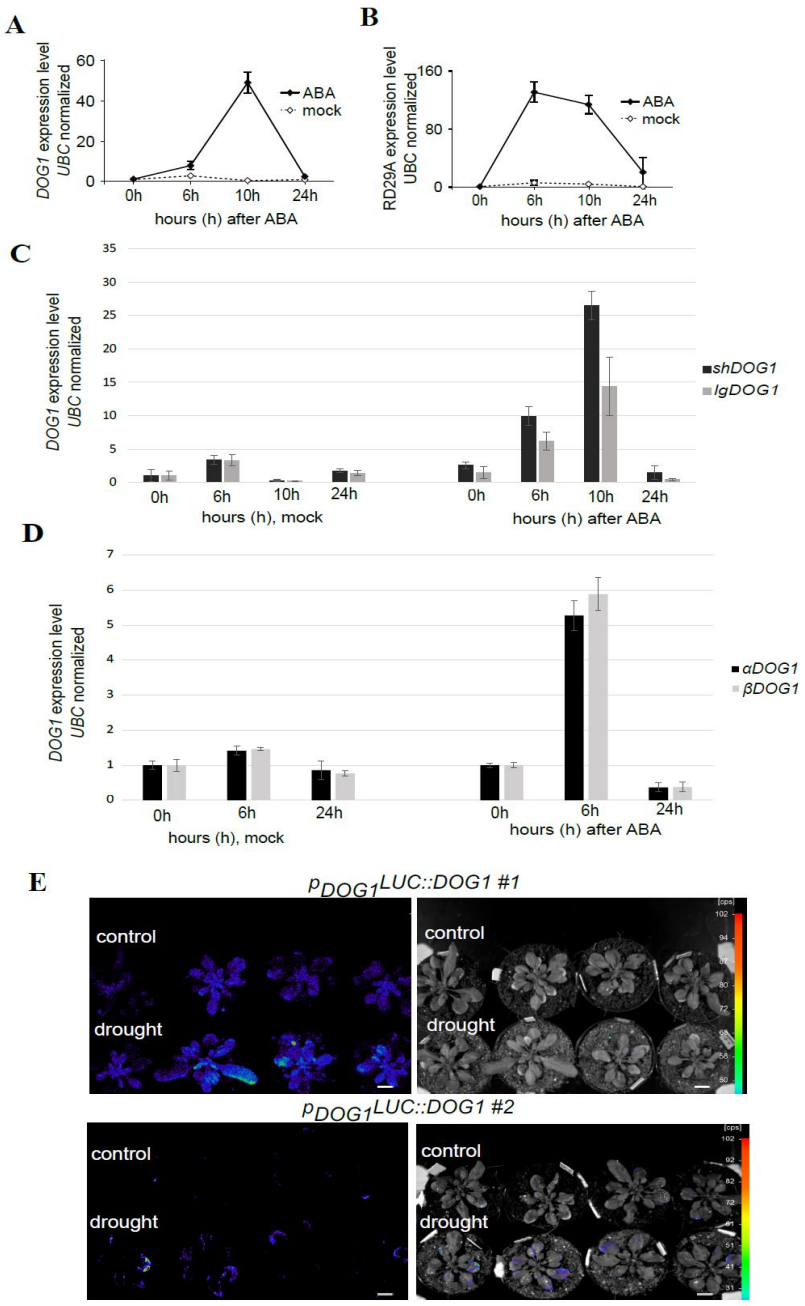


Appendix Figure S1. *DOG1* antisense promoter activity is unaffected by gibberellic acid (GA).

A Spraying with 50μM GA_4 does not influence antisense expression in transgenic plants expressing *p_{AS}DOG1::LUC* construct after 24 h. Scale bar: 2cm.

B LUC picture quantification of light intensity per plant. Error bars represent standard deviation.

Appendix Figure S2.



Appendix Figure S2.

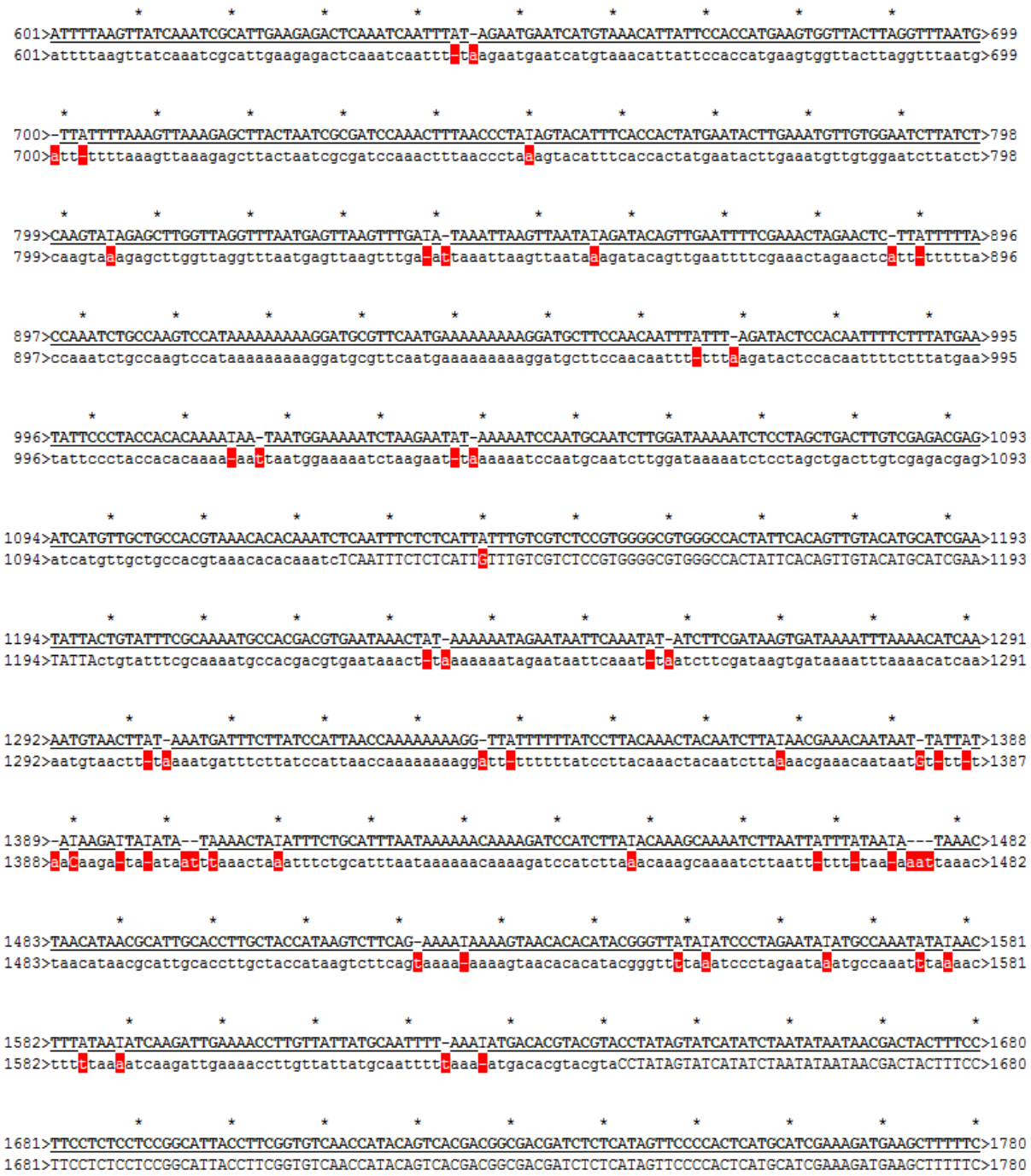
A, B *DOG1* and *RD29* time course induction after 100µM ABA spray-inoculation in 40-day-old Col-0 (WT) plants.

C RT-qPCR analysis of short (*shDOG1*) and long (*lgDOG1*) *DOG1* mRNA splice forms after spray-inoculation with 100µM ABA.

D RT-qPCR analysis of α*DOG1* and β*DOG1* mRNA splice forms after spray-inoculation with 100µM ABA.

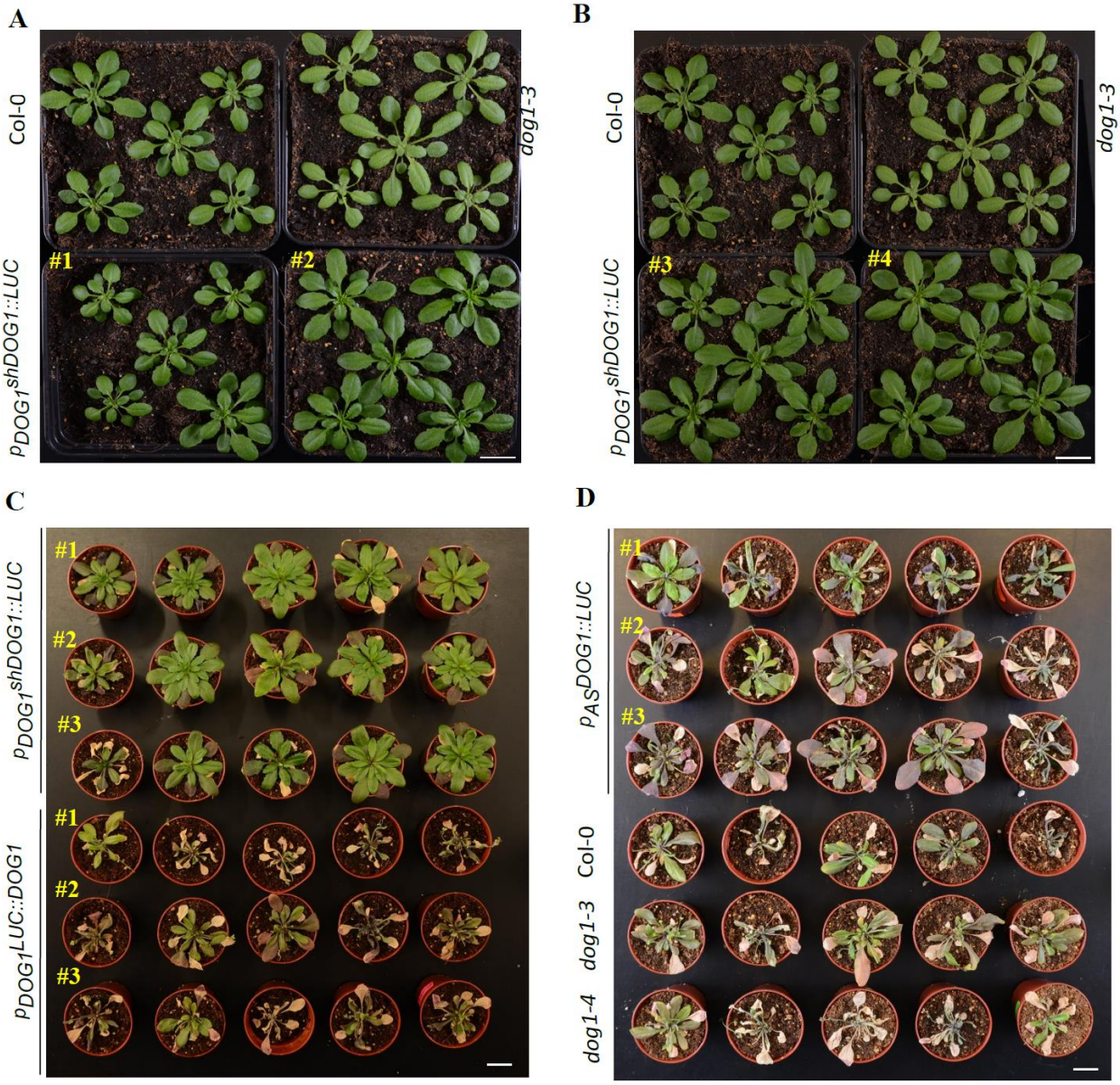
E Transgenic plants expressing p_{DOG1}*LUC::DOG1* construct after 3 days of drought. Error bars represent standard deviation. Scale bar: 1cm.

Appendix Figure S3.



Appendix Figure S3. Sequence alignment of *DOG1* antisense promoter (upper sequence) vs. TATA-box mutated promoter (lower sequence).

Appendix Figure S4.

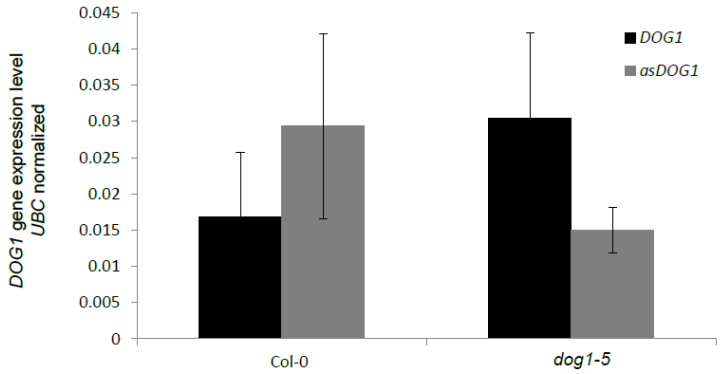


Appendix Figure S4. Growth phenotype of tested *DOG1* transgenic and mutant plants.

A, B Phenotype of transgenic lines expressing p_{DOG1}*shDOG1::LUC* construct vs. Col-0 (WT) and *dog1-3* mutant under normal conditions. Scale bar: 2cm.

C, D p_{DOG1}*shDOG1::LUC*, p_{AS}*DOG1::LUC* and p_{DOG1}*LUC::DOG1* constructs vs. Col-0 (WT), *dog1-3* and *dog1-4* mutant plants after 10 days of water withdrawal and 2 days of recovery. All plants shown in the left and right panels were grown side by side and imaged on the same day. Scale bar: 2cm.

Appendix Figure S5.



Appendix Figure S5. *dog1-5* has a very small effect on antisense expression in seedlings.

DOG1 sense and antisense mRNA accumulation in seedlings of *dog1-5* mutant. Plants were grown in hydroponic culture as described and harvested at 2 weeks old [81]. Error bars represent standard deviation.

Appendix Table S1. Primer list.

Primer name	Sequence
pDOG1antis_F_EcoR1	GGGAATTCTTTTTTTTGGGGTCTAAACCTTGC
pDOG1antis_R_Sal1	GGGTCGACGGTGGCGGCGGTGCATCACTTAGCG
DOG1_TATA_f1_F	GGGTACGTACGTGTCATTTTAAAAA
DOG1_TATA_f1_R	TCAATTTCTCTCATTGTTTGTCGTC
DOG1_TATA_f2_F	CTATTTTTTTAAGTTTATTCACGTC
DOG1_TATA_f2_R	CCCACTAGTATTCTTGGCGATTAAG
AS.pr_EcoRI_dTATA	GGGGAATTCTTTTTTTTGGGGTCTAAACCT
AS.pr_SalI_dTATA	GGGCTCGAGGTCGACGGTGGCGGCGGTGCATCA