

Supplemental Figure S2

Genes	Proteins	dsDNA_bind
PDCD5, <i>H.sapiens</i> programmed cell death 5	NP_004699.1 125 aa	
PDCD5, <i>P.troglodytes</i> programmed cell death 5	XP_512563.1 125 aa	
PDCD5, <i>M.mulatta</i> programmed cell death 5	XP_001086491 125 aa	
PDCD5, <i>C.lupus</i> programmed cell death 5	XP_00561635.1 111 aa	
PDCD5, <i>B.taurus</i> programmed cell death 5	NP_001039489 125 aa	
Pdcd5, <i>M.musculus</i> programmed cell death 5	NP_062720.1 126 aa	
Gm3837, <i>M.musculus</i> predicted gene 3837	XP_00147806.1 126 aa	
Pdcd5, <i>R.norvegicus</i> programmed cell death 5	NP_001099717 125 aa	
LOC100912106, <i>R. norvegicus</i> Programmed cell death protein 5-like	XP_003748886 125 aa	
PDCD5, <i>G.gallus</i> programmed cell death 5	NP_001264515 126 aa	
pdcd5, <i>X.tropicalis</i> programmed cell death 5	NP_001017011 125 aa	
pdcd5, <i>D.rerio</i> programmed cell death 5	NP_957471.1 128 aa	
PDCD5 <i>D.melanogaster</i> PDCD5	NP_648848.1 133 aa	
AgaP_AGAP005432, <i>A.gambiae</i> AgaP_AGAP005432	XP_315439.4 129 aa	
D2005.3, <i>C.elegans</i> D2005.3	NP_492159.2 130 aa	
SPAC23C4.09c, <i>S.pombe</i> SPAC23C4.09c	NP_593181.1 131 aa	
AT1G29850, <i>A.thaliana</i> AT1G29850	NP_849728.1 130 aa	
Os05g0547850, <i>O.sativa</i> Os05g0547850	NP_001174513 128 aa	

Representative scheme of the double strand DNA binding domain conserved in PDCD5 proteins from eukaryotic species. The scheme was obtained using the HomoloGene tool (NCBI) that identifies homologs among the annotated genes of several sequenced eukaryotic genomes. Double-stranded DNA-binding domain is represented by green (pfam01984) and pink (cl00928) boxes.

Supplemental Figure S3

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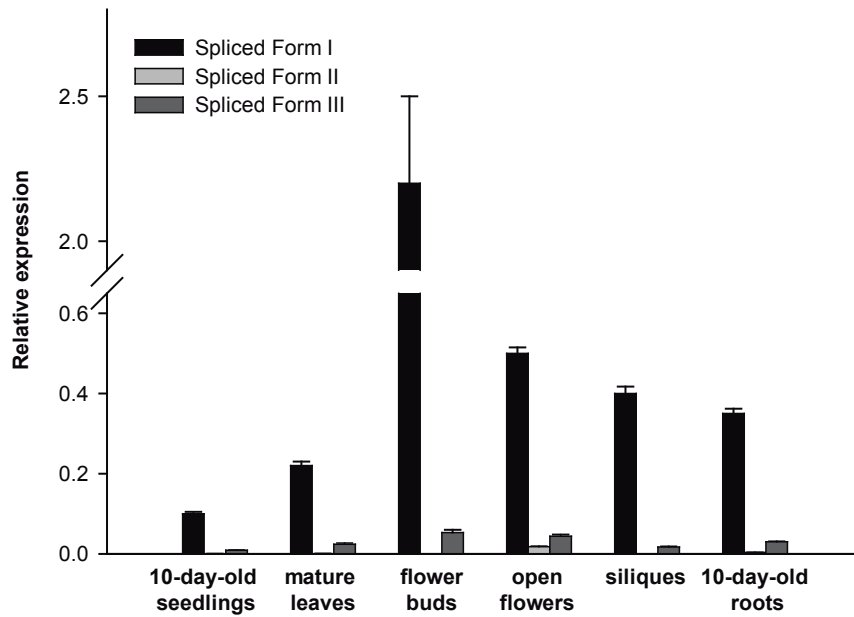
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(III) 823pb b	TGGTTCTGTTCTAATTGTAATTCATAAAAATTGATGTTGTTA	823

Alignment of the *AtPDCD5* genomic sequence with the three *AtPDCD5* mRNA spliced forms. Matches are indicated by an asterisk (*), sequence differences between the mRNA spliced forms are marked in gray.

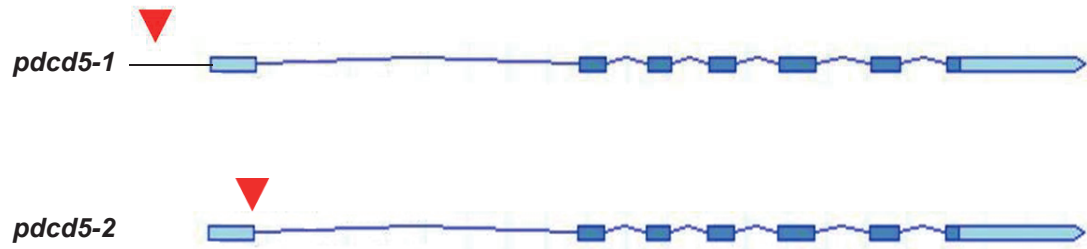
Supplemental Figure S4



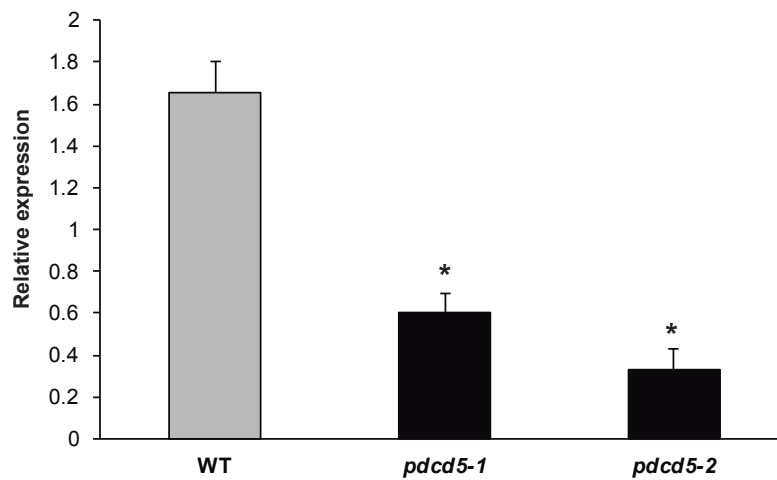
AtPDCD5 spliced forms I, II and III expression analysis in Arabidopsis. *AtPDCD5* spliced forms expression levels in different Arabidopsis tissues determined by qRT-PCR. The relative *AtPDCD5* spliced forms I, II and III transcript abundance was analyzed in seedlings (10-day-old), mature leaves (28-day-old), flower buds, open flowers, siliques and roots (10-day-old). The means of the results obtained using three independent RNAs as a template are shown, the error bars indicate the S.D. of the samples. Each reaction was normalized using the Ct values corresponding to the *UBQ10* mRNA.

Supplemental Figure S5

A

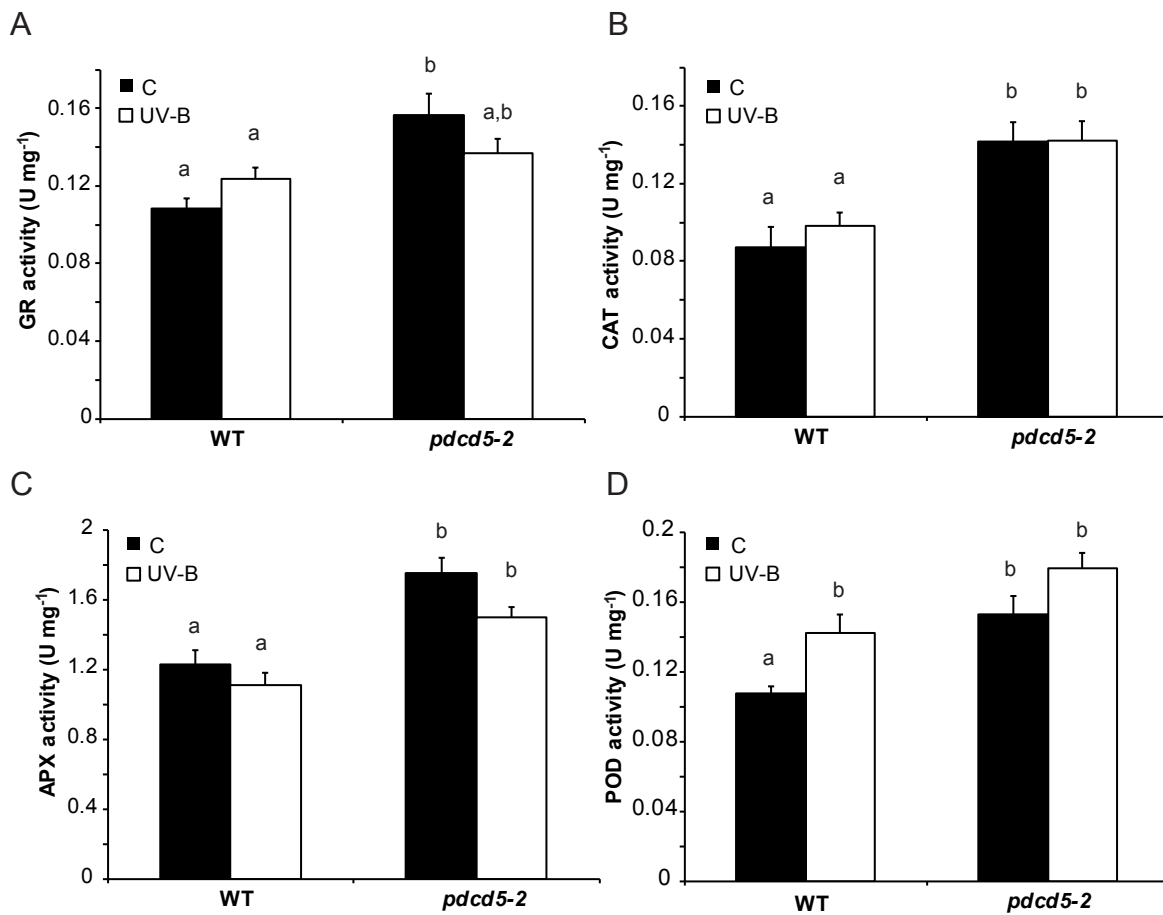


B



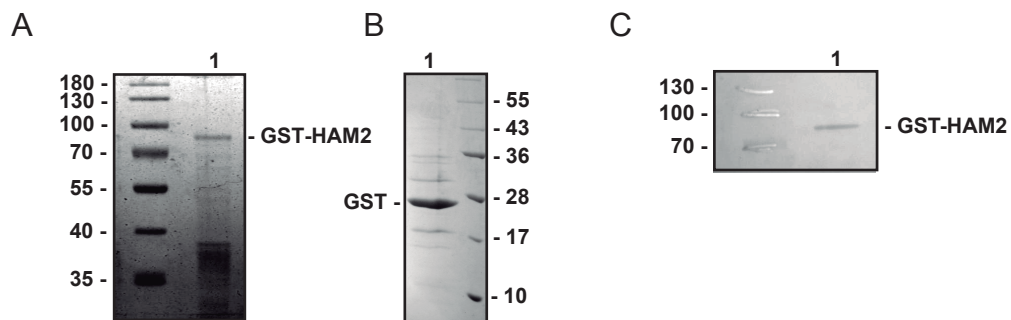
Characterization of *pcd5* mutant lines. (A) Structure of *A. thaliana* *PDCD5* gene. Boxes indicate exons (coding regions are in blue, while 5' and 3'UTRs are in light blue), and blue and black lines represent introns and promoter regions, respectively. The open triangles show the T-DNA positions. (B) *PDCD5* transcript abundance in T-DNA lines and wild-type (WT) plants analyzed by qRT-PCR. The means of the results obtained using three independent RNAs as a template are shown, the error bars indicate the S.D. of the samples. Each reaction was normalized using the C_t values corresponding to the *UBQ10* mRNA. For each *pcd5* mutant line analyzed, asterisks over the bars indicate statistically significant differences between wild type and *pcd5* mutant plants applying Student's *t*-test ($P < 0.05$).

Supplemental Figure S6



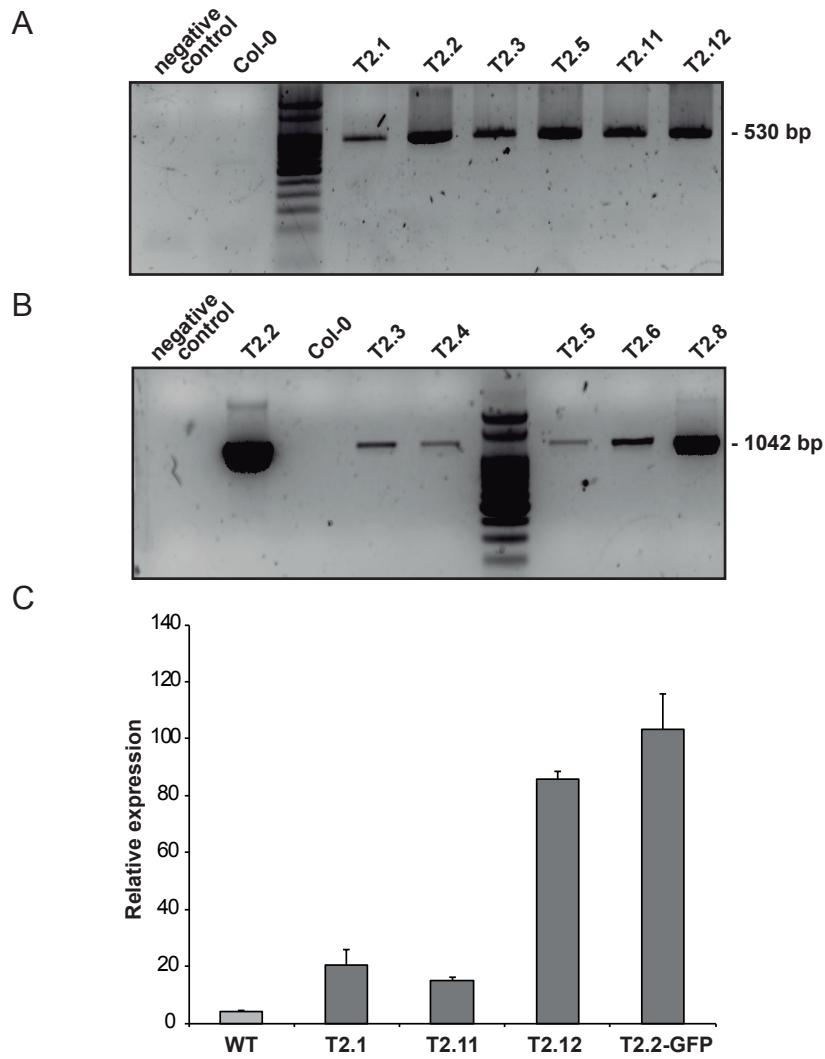
Analysis of antioxidant enzyme activities in wild type (WT, Col-0) and *pdc5* mutant plants under control conditions and after UV-B treatment. Glutathione reductase (GR) (A), catalase (CAT) (B), ascorbate peroxidase (APX) (C) and peroxidase (POD) (D) activities were determined under control conditions (C) and after a 4h-UV-B treatment at an intensity of 0.2 W m⁻². Results represent the average \pm S.E.M. of three independent biological replicates. Statistical significance was analyzed using ANOVA, for each sample analyzed, different letters indicate significant difference with $P < 0.01$.

Supplemental Figure S7



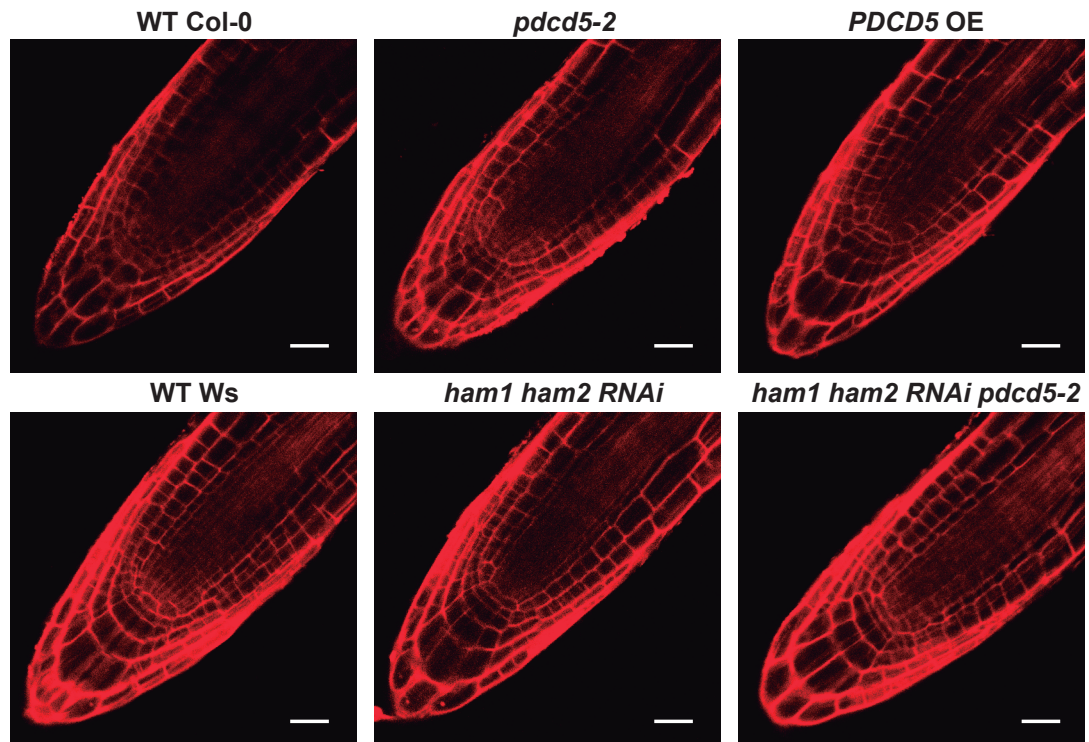
Recombinant expression of GST-AtHAM2 and GST proteins. (A) SDS-PAGE analysis (10%) of the recombinant purified GST-AtHAM2 fusion protein (lane 1, 3 µg). (B) SDS-PAGE analysis (15%) of the recombinant purified GST protein (lane 1, 6 µg). (C) Immunoblot analysis of the recombinant purified GST-AtHAM2 fusion protein (lane 1) using anti-GST antibodies. One µg of the purified protein was loaded. The numbers on the sides of gels indicate the molecular mass in kDa.

Supplemental Figure S8



Analysis of Arabidopsis transgenic plants expressing *AtPDCD5-GFP* and *AtPDCD5*. The presence of the *Pro_{35S}:AtPDCD5* (A) and *Pro_{35S}:AtPDCD5-GFP* (B) transgenes was analyzed by PCR on genomic DNA from non-transformed plants (WT, Col-0) and six independent lines (indicated by numbers) for each *Pro_{35S}:AtPDCD5* and *Pro_{35S}:AtPDCD5-GFP* transgenic plants. The negative control was done without genomic DNA. Positive PCR reactions amplified 530 and 1042 bp products for *Pro_{35S}:AtPDCD5* (A) and *Pro_{35S}:AtPDCD5-GFP* (B) transgenic plants, respectively. (C) Transcript levels of *AtPDCD5* in transgenic plants analyzed by qRT-PCR, the expression level of *AtPDCD5* in wild type plants (WT, Col-0) is shown. Each reaction was normalized using the C_t values corresponding to the *UBQ10* mRNA.

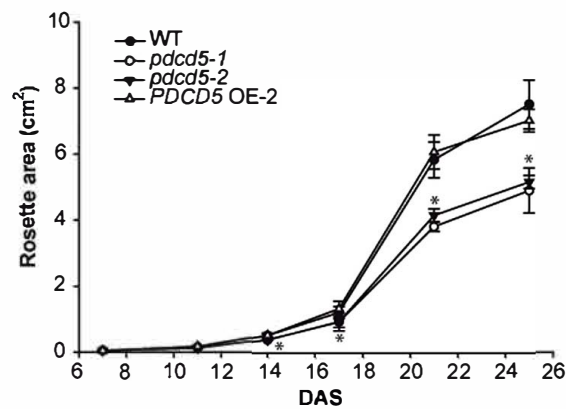
Supplemental Figure S9



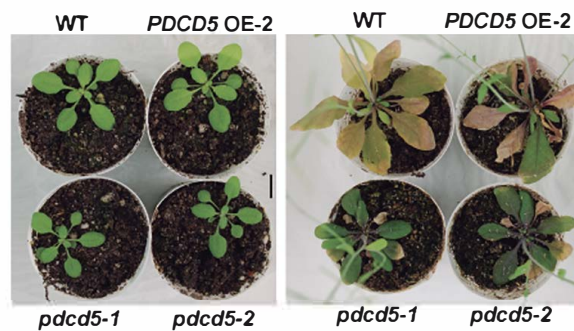
Images of root tips from WT (Col-0, Ws), *pdcd5-2*, *ham1ham2* RNAi, and *ham1ham2* RNAi/*pdcd5* mutants and *PDCD5* overexpressing plants (*PDCD5* OE) under control conditions (C) without UV-B. Bar corresponds to 50 μm.

Supplemental Figure S10

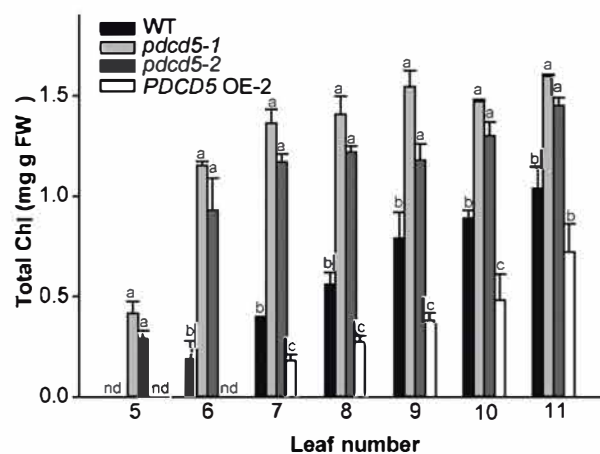
A



B

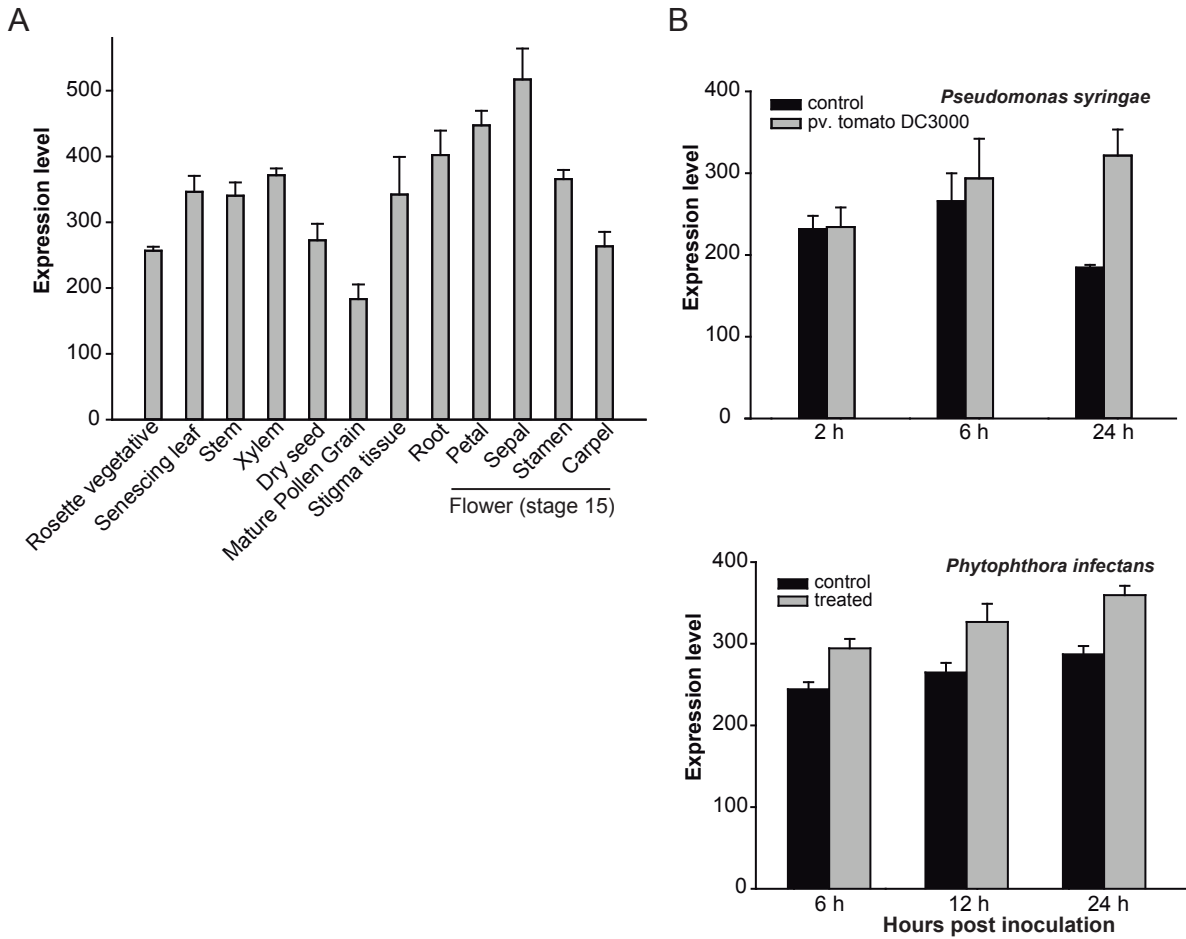


C



Phenotypic analysis of *pcd5* mutants and transgenic *PDCD5* OE plants. (A) Rosette area of *pcd5* mutants and transgenic *PDCD5* OE plants measured every 3-4 days from day 7-25 after stratification (DAS). Asterisks indicate statically significant differences (P < 0.01, one-way Anova test). (B) Col-0 (WT), *pcd5-1*, *pcd5-2* mutants and *PDCD5* OE plants at 21 (left) and 40 (right) DAS. Scale bar: 1 cm. (C) Total chlorophyll content in leaves of Col-0 (WT), *pcd5-1*, *pcd5-2* mutants and *PDCD5* OE plants at 40 DAS. For each leaf, statically significant differences between plants are marked with different letters (P < 0.05, one-way ANOVA test).

Supplemental Figure S11



Relative expression level of *AtPDCD5* in different tissues (A) and in leaves from plants exposed infected with *Pseudomonas syringae* and *Phytophthora infestans*, (B). Microarrays data were retrieved from the Arabidopsis electronic Fluorescent Pictograph (eFP) Browser (Winter et al., 2007).

Supplemental Table S1. Primers used for cloning, RT-qPCR and screening.

Name	Sequence
<i>F-BamHI-PDCD5-OE</i>	5'GAGTACGGATCCATGGCTGATCCTGAACTA3'
<i>R-Sall-PDCD5-OE</i>	5'CGCGGCGTCGACTTAAGTGAACCTACTAAC3'
<i>F-Kpn-PDCD5-GFP</i>	5'GAGTACGGTACCATGGCTGATCCTGAACTA3'
<i>R-BamHI-PDCD5-GFP</i>	5'TATGGATCCATCGTCGTCCACCCCACGGCG3'
<i>F-AtPDCD5-1</i>	5'GGCTCGACAAGGCATGGG3'
<i>R-AtPDCD5-1</i>	5'ACGGCGCCGTTGGTACGT3'
<i>F-AtPDCD5-2</i>	5'GGCTCGACAAGGCATGCA3'
<i>R-AtPDCD5-2</i>	5'CGGCGCCGTTGGTACTTAC3'
<i>F-AtPDCD5-sc</i>	5'TTCCCTGAGACGAATCCA3'
<i>R-AtPDCD5-sc</i>	5'CGCAGGAACGAAATCAAC3'
<i>35S_{prom}</i>	5'GAGGAGCATCGTGGAAAAAGA3'
<i>R-GFP</i>	5'CTGCAGTCAAGCTTTGTATAGTTCATC3'
<i>F-HindIII-AtPDCD5_{prom}</i>	5'GCGAAGCTTCCCCTTGAAGTCTTAC3'
<i>R-BamHI-AtPDCD5_{prom}</i>	5'CGGGGATCCAAAAAACTCACCATC3'
<i>F-AtHAM2-EcoRI</i>	5'CACCAGAATTCATGGGATCGTCAGCGAATACAGAAACCAA3'
<i>R-AtHAM2-XhoI</i>	5TGTCACTCGAGTTAACTCTGGTCCTTGTAAGGTGTCCAA3'
<i>F-AtUBQ10</i>	5'AAGCAGCTTGAGGATGGAC3'
<i>R-AtUBQ10</i>	5'AGATAACAGGAACGGAAACATAGT3'
<i>F-AtCDPK3</i>	5'-CGCTGAGAACCCTTTCTGAAG-3'
<i>R-AtCDPK3</i>	5'-CCATCTCCATCCATATCAGC-3'
<i>LB-SALK</i>	5'-GTCCGCAATGTGTTATTAAGTTGTC-3'
<i>F-AtUVR2</i>	5'-GACCCGAGTGGATATGTTGG-3'
<i>R-AtUVR2</i>	5'-GAGCTGTTCTTCAGCTTTCC-3'
<i>F-AtUVR7</i>	5'-TACATTCGGGTCTCTTGCTC-3'
<i>R-AtUVR7</i>	5'-TCCTCGTCTTCTTCAACAGG-3'
<i>F-AtUVH6</i>	5'-CAAAGGCTGATTATGGGATG-3'
<i>R-AtUVH6</i>	5'-CACCAGTCTCAGCCATCTTC-3'