

Figure S1 CRFs expression pattern in pistil and ovule primordia.

(A,B,C) CRF2 expression pattern detected using *pCRF2::3xGFP* is visible in the carpel margin meristem and in the developing valves of stage 9 pistil (A), at the base of emerging ovule primordia stage 1-II (B) and in the developing vasculature of ovule at stage 2-I (C). (D,E) *pCRF6::GUS* shows a gradient of expression from the tip to the bottom of all tissues of stage 9 pistil; (F) GUS signal driven by the promoter of CRF6 is also strongly expressed at the base and in the developing vasculature of ovules at stage 2-I. (G,H) on the contrary *pCRF3::GUS* is not expressed at early stage of pistil and ovule development. cmm: carpel margin meristem; op: ovule primordia stage 1-II, ov: ovule stage 2-I, v: valve. Scale bars= 20μm.

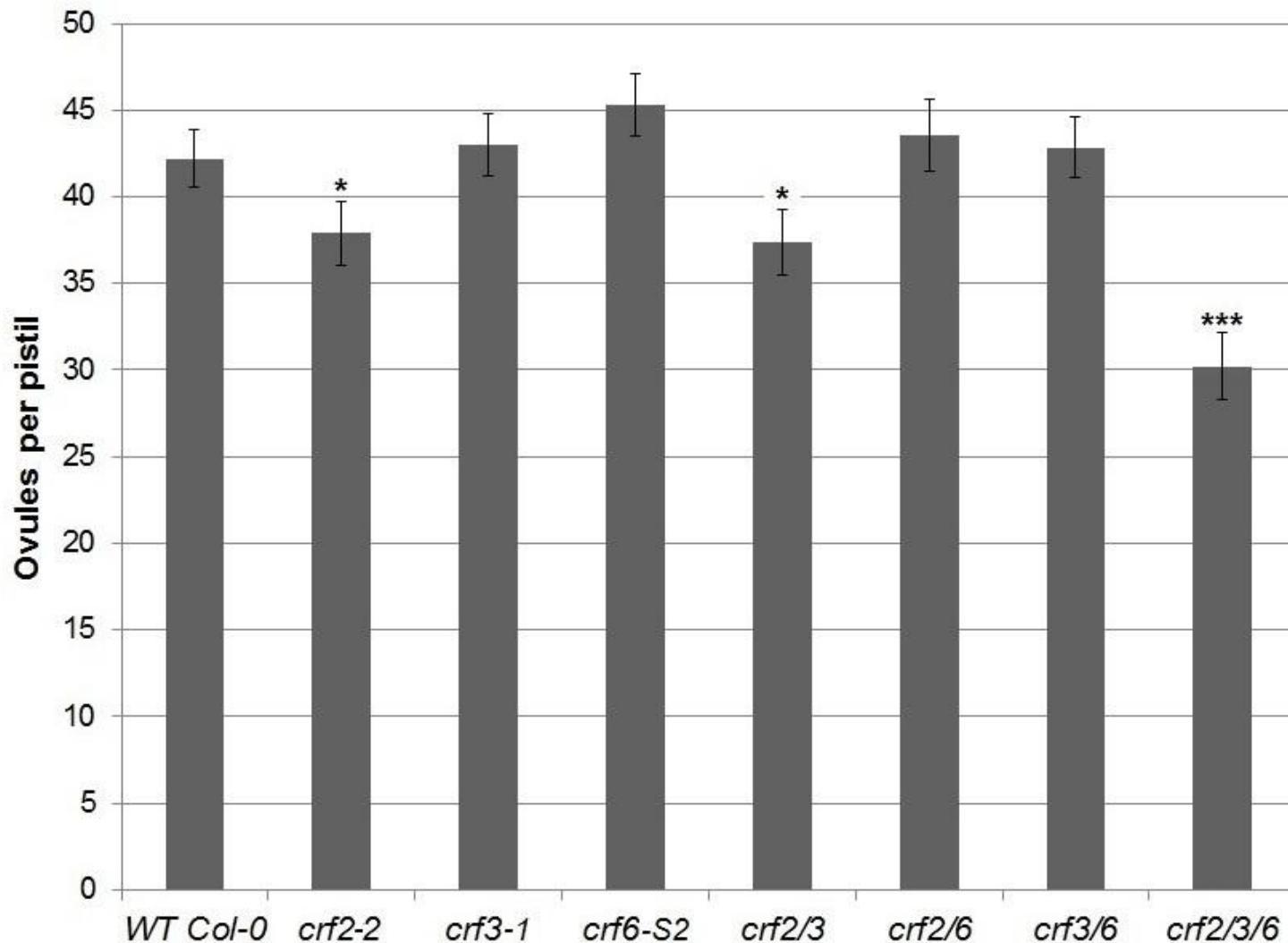


Figure S2 Ovule number per pistil in several *crf* mutant combinations.

Number of ovules in wild-type *col-0*, *crf2-2*, *crf3-1*, *crf2-2 crf3-1* (*crf2/3*), *crf2-2 crf6-S2* (*crf2/6*), *crf3-1 crf6-S2* (*crf3/6*) and *crf2-2 crf3-1 crf6-S2* (*crf2/3/6*).

Student's t-test (*p<0,05; ***p<0,001; n=20).

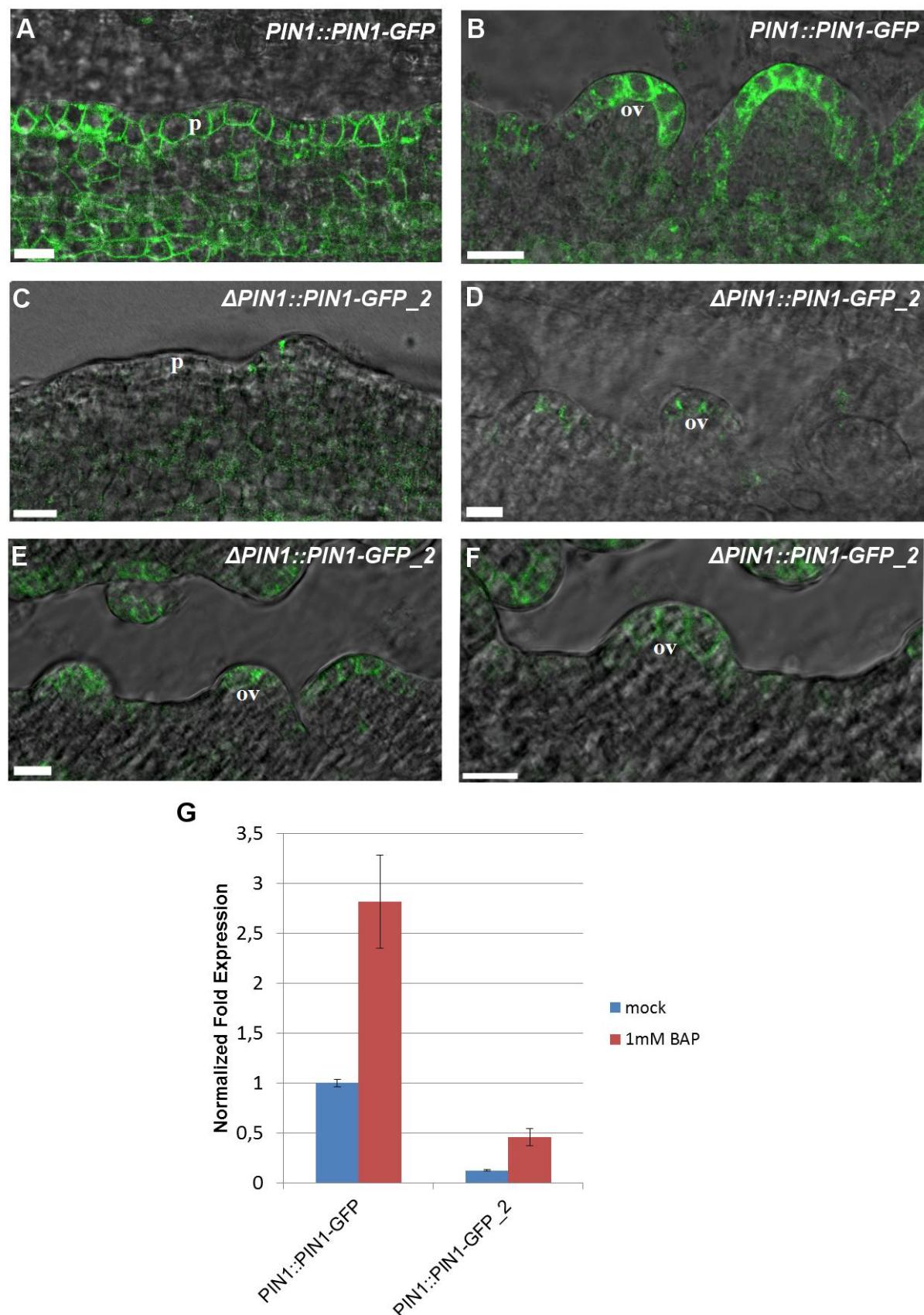


Figure S3

Confocal microscope images of *PIN1::PIN1-GFP* (A,B) in placenta cells (A) and ovule primordia (B). (C,D,E,F) Images of *ΔPIN1::PIN1-GFP* line 2 placenta cells (C) and ovule primordia at stages 1-I (D,E,F). Scale bars = 10 μ m. ov: ovule primordia; p: placenta.

(G) GFP expression levels in mock and BAP-treated *PIN1::PIN1-GFP* and *ΔPIN1::PIN1-GFP* line 2 pre-fertilization inflorescences. The data were normalized with respect to ACT8-2 and UBI10 mRNA levels.

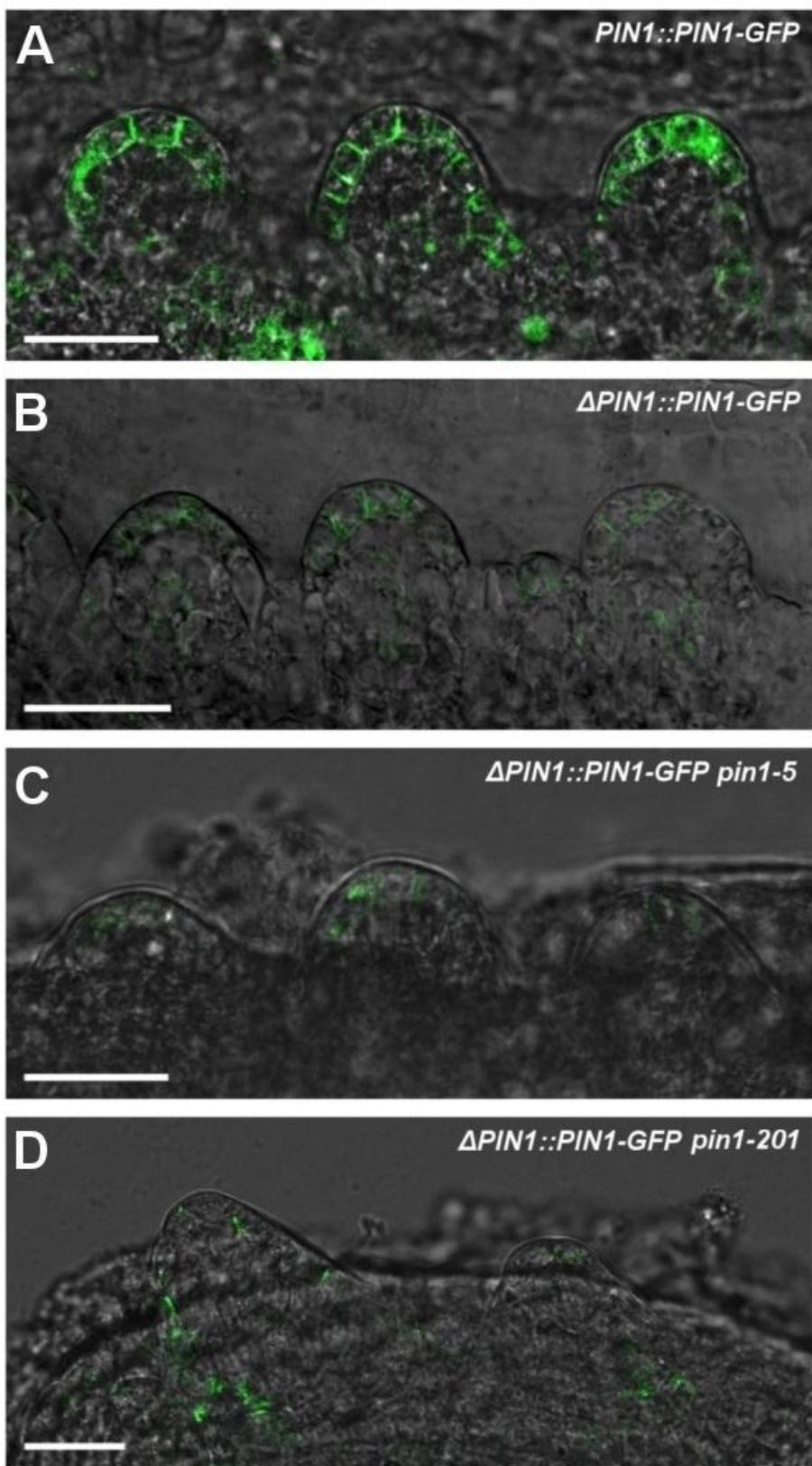


Figure S4 Confirmation of the presence of Δ PIN1::PIN1-GFP in *pin1* mutants.

Confocal microscope images of PIN1::PIN1-GFP, Δ PIN1::PIN1-GFP and Δ PIN1::PIN1-GFP in the *pin1-5* and *pin1-201* mutant backgrounds. The fluorescence intensity of PIN1-GFP in Δ PIN1::PIN1-GFP wild-type background ovules (B) is comparable to that seen for PIN1-GFP in Δ PIN1::PIN1-GFP *pin1-5* (C) and Δ PIN1::PIN1-GFP *pin1-201* (D) ovule primordia, and is considerably lower than that in PIN1::PIN1-GFP ovules (A).



Figure S5 Phenotype *pin1-201* mutant plants

(A) Note the complete absence of lateral branches and flowers on the *pin1-201* stem. (B) *pin1-201* inflorescence apex.