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RAV1 Negatively Regulates Seed Development by Directly Repressing *MINI3* and *IKU2* in Arabidopsis

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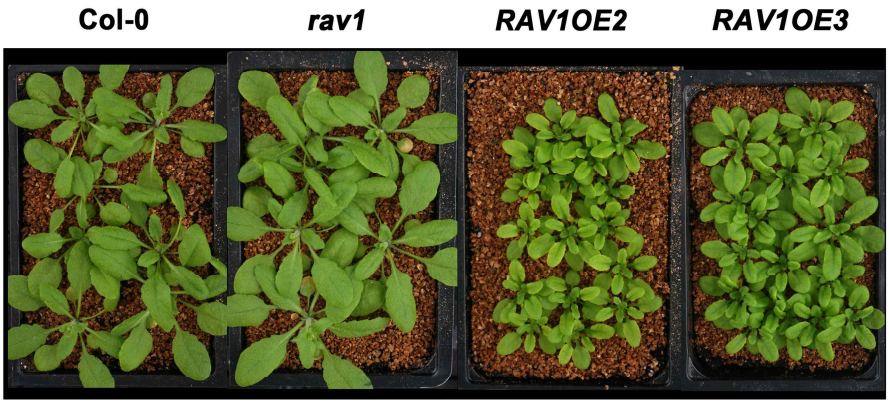
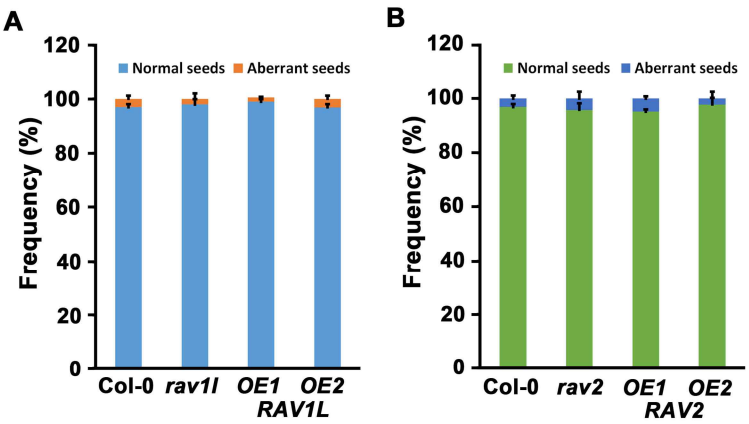
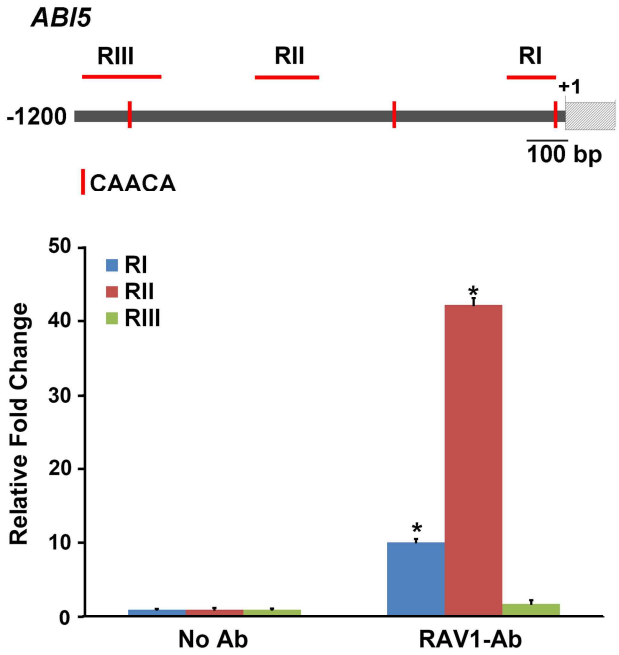


Supplemental Fig. S1 RAV1 acts as a negative growth regulator in plant development. Phenotype of the rav1 mutants and two independent RAV1-overexpressing transgenic plants compared with that of wild-type plants. Pictures were obtained from 4-week-old plants under long-day conditions.



Supplemental Fig. S2 RAV1L and RAV2 did not affect seed development in Arabidopsis. Frequency of aberrant seeds in rav1l mutant and two RAV1L-overexpressing plants (A) and in rav2 mutant and two RAV2-overexpressing plants (B) compared with those from wild-type plants did not show statistically significant differences (n = 300 seeds per each plant).



Supplemental Fig. S3 RAV1 directly binds to the promoter of ABI5. The RAV1-binding sites are marked with red bar in a schematic representation of the ABI5 promoter (upper panels). Graph showing the relative amplification of the fragments containing RAV1-binding sites of ABI5 using ChIP analyses (lower panels). (*: $p < 0.05$ compared with the same amplified region without antibody treatment).