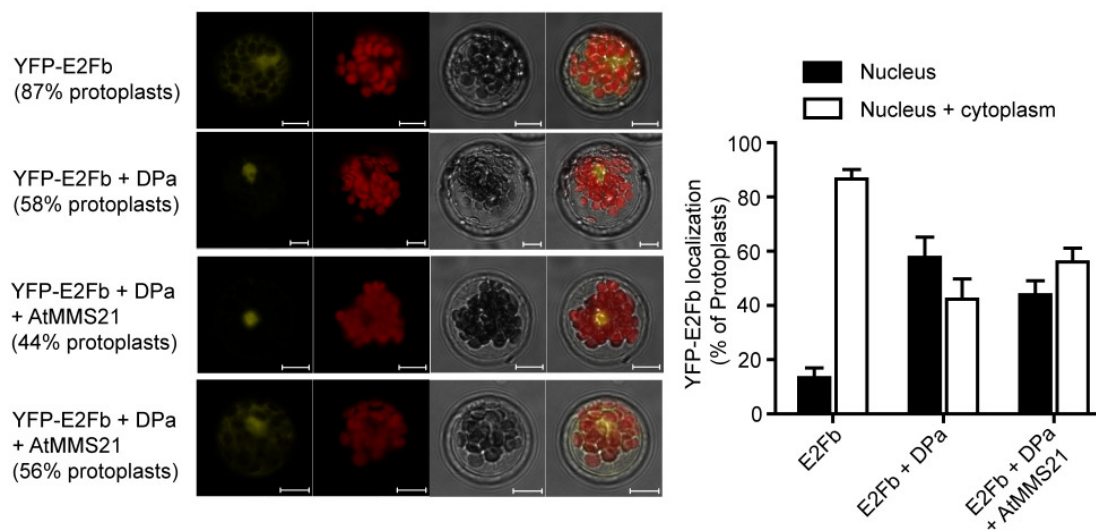
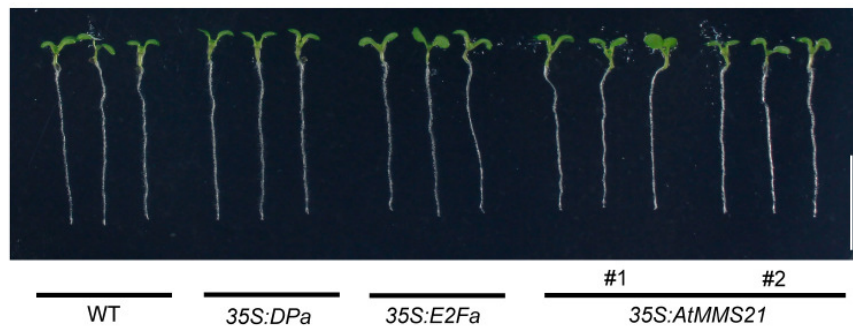


Supplemental Figure 1. Detection of DPa-AtMMS21 interaction by bimolecular fluorescence complementation. The protoplasts were co-transformed with plasmid pairs: *AtMMS21-YN* (*AtMMS21* fused with N terminal of EYFP) and *YC* (empty vector with C terminal of EYFP); *YN* (empty vector with N terminal of EYFP) and *DPa-YC* (*DPa* fused with C terminal of EYFP); *AtMMS21-YN* and *DPa-YC*. Representative YFP signals were detected by confocal microscopy 48 hours after transformation. The autofluorescence from chloroplasts and bright field (BF) signals were also detected and merged. Bar=10 μ m.

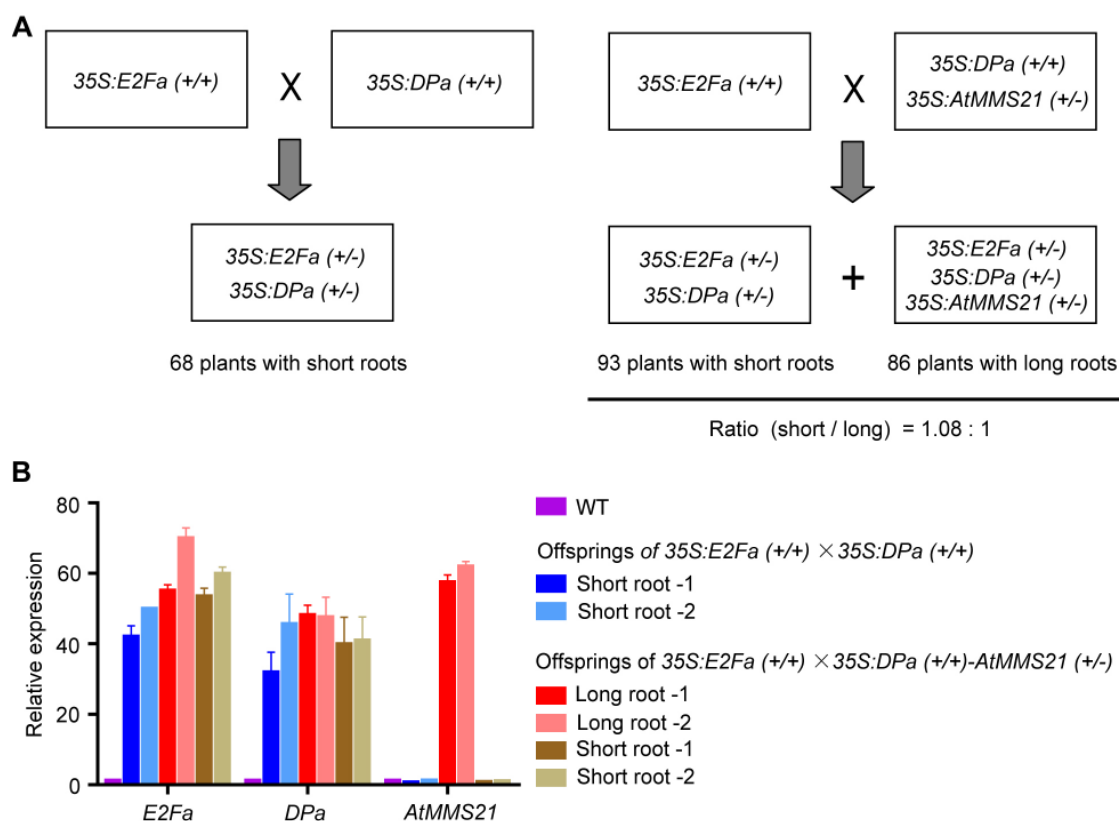


Supplemental Figure 2. Subcellular distribution of YFP-fused E2Fb in protoplasts.

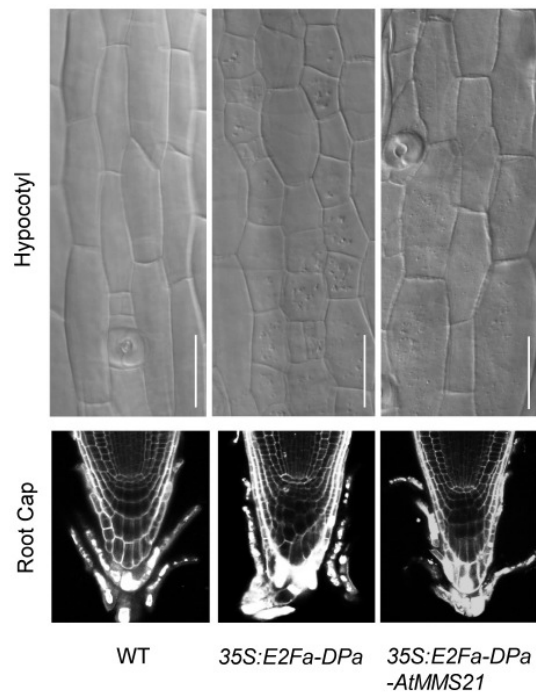
YFP-E2Fb was transiently expressed in protoplasts from wild-type and transgenic plants carrying *35S:DPa* alone or both *35S:DPa* and *35S:AtMMS21*. Representative YFP signals from the majority of the indicated protoplasts are shown. Bar=10 μ m. Statistical data from means \pm SD for three independent biological replicates ($n > 100$) are shown in the right panel.



Supplemental Figure 3. The phenotypes of WT, 35S:DPa, 35S:E2Fa, and 35S:AtMMS21 seedlings. The photograph was taken 5 days after germination. Bar=1 cm.



Supplemental Figure 4. The generation and identification of plants carrying 35S:*E2Fa*-*DPa*-*AtMMS21*. (A) The crossing scheme for generation of 35S:*E2Fa*-*DPa* and 35S:*E2Fa*-*DPa*-*AtMMS21*. The ratio of offsprings with long and short roots is shown. (B) The expression levels of *E2Fa*, *DPa* and *AtMMS21* in the plants generated from crossing were analyzed by real time PCR. The data are means \pm SD from triplicated experiments.



Supplemental Figure 5. The phenotypes of hypocotyl and root cap of the *35S:E2Fa-DPa-AtMMS21* plants. Hypocotyls of 12-day-old plants are shown in the top panel. Bar = 50 μ m. Root caps of 7-day-old plants after PI staining are shown in the bottom panel.