Supplementary Figures, Kallai et al., 2019

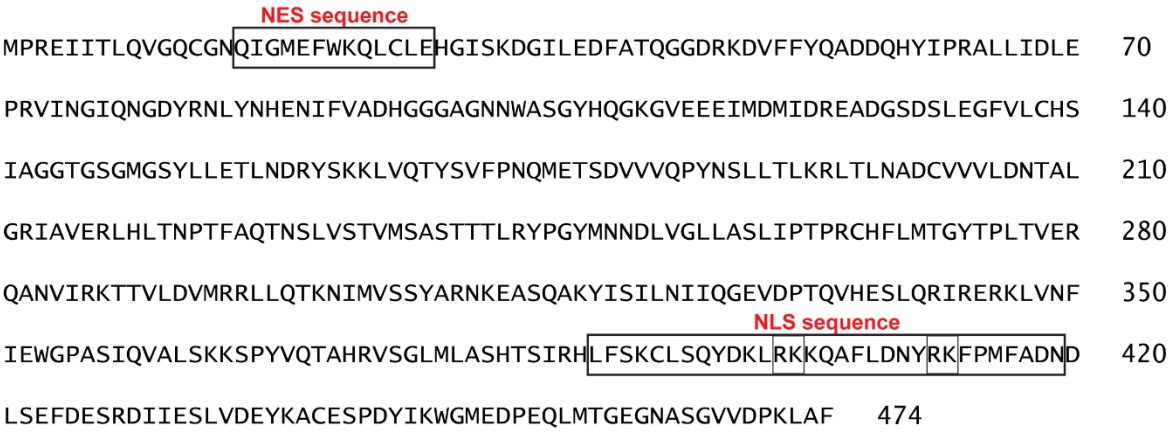

Fig. S1 Protein sequence of Arabidopsis γ-tubulin (At3g61650) with marked nuclear localization signal NLS (Hoog et al., 2011) at C terminus and nuclear export signal NES annotated by ELM database (ELM 2016-data update and new functionality of the eukaryotic linear motif resource).

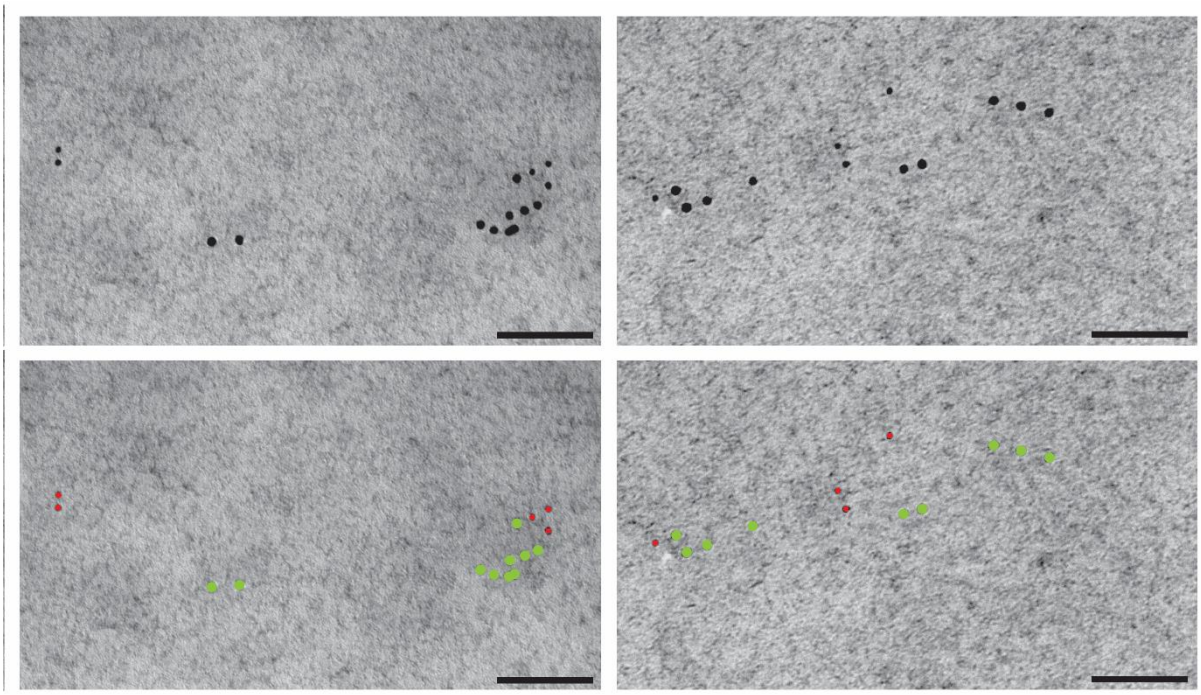

Fig. S2 Ultrastructural immunolocalization of gamma-tubulin and GFP-EF2 in nuclei of *A.thaliana* root meristem cells – high magnification of the area in the nucleoplasm shown in Fig. 4 C, E. In the bottom row, gold particles are color-coded. Small gold particles 6 nm (red) – GFP, large gold particles 12 nm (green) – gamma tubulin (left column: DQ-19; right column: Ath). Bar: 100 nm.

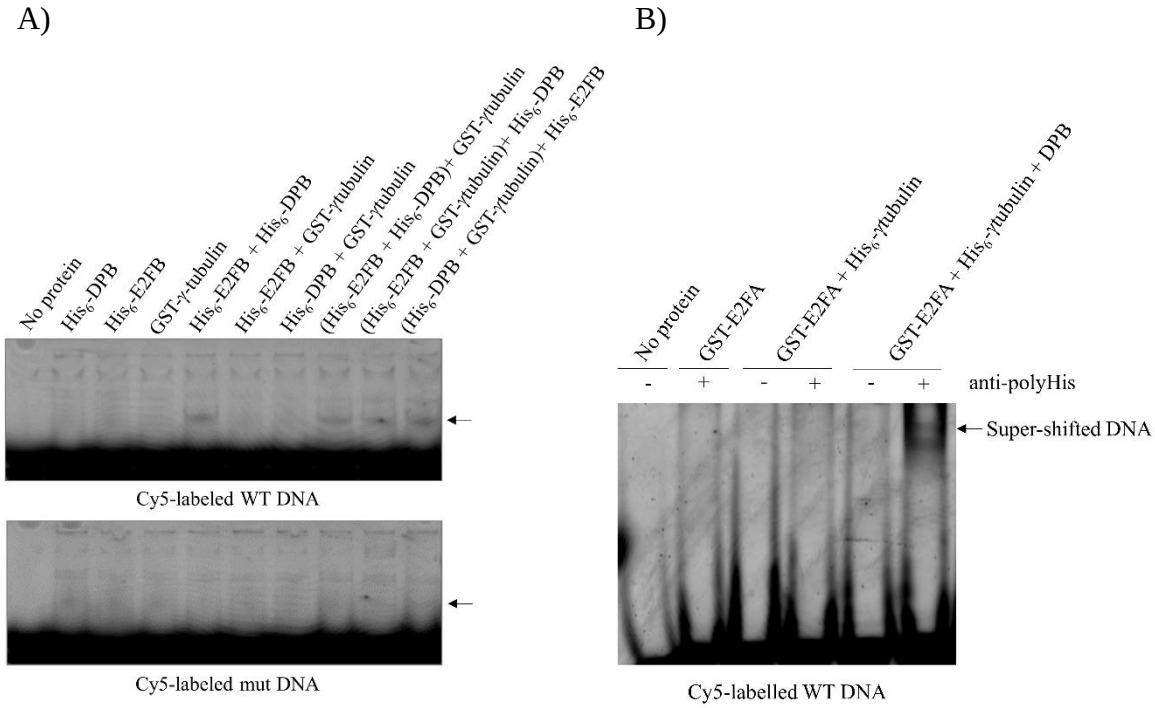

Fig. S3 (A) Analysis of the DNA binding capacity of different combinations of His_6-E2FB, His_6-DPB and GST-γ-tubulin mixtures by Electrophoretic Mobility Shift Assay. Cy5 labelled wild type and mutated E2F-binding site possessing DNA was added to the protein of interest expressing wheat-germ translation mixtures and analysed by EMSA. The position of shifted band is marked by arrow.

(B) Demonstration of DNA binding capacity of heterotrimer. GST-E2FA, DPB and GST-γ-tubulin containing translation mixtures and DNA were mixed in the indicated combinations and completed with polyHis antibody. The samples were analysed by EMSA. The position of super-shifted band is marked by arrow.

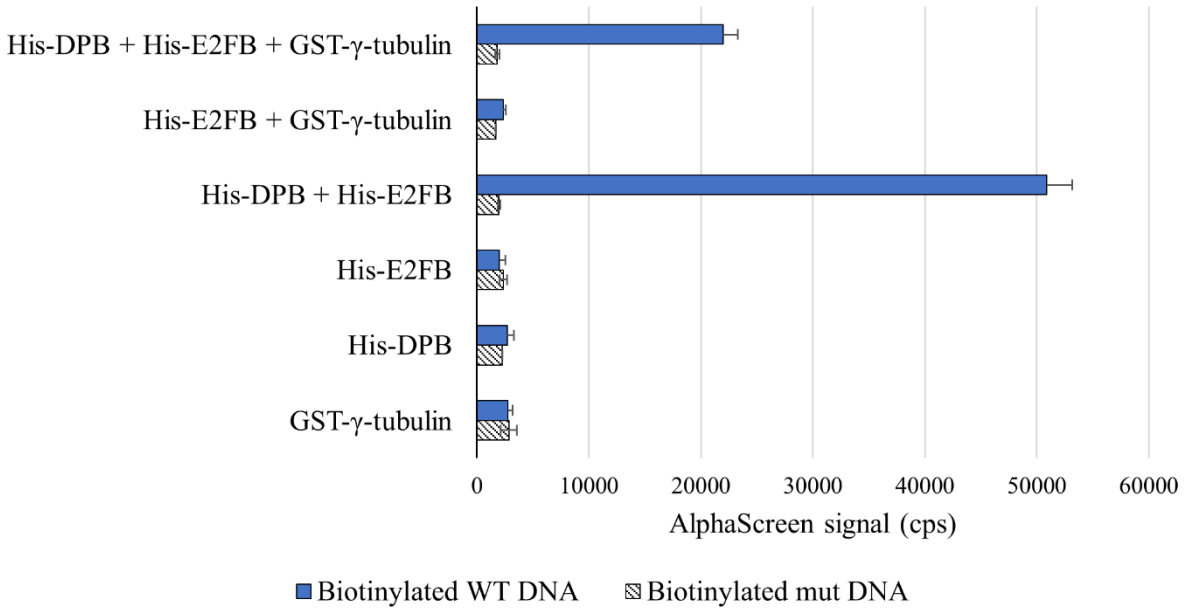

Fig. S4 Analysis of the DNA binding capacity of different combinations of His_6-E2FB, His_6-DPB, and GST-γ-tubulin by ALPHA. Biotinylated wild type and mutated E2F-binding site possessing DNA were added to various combinations of the wheat-germ translation mixtures and the samples were completed with AlphaScreen Streptavidin Donor and Nickel chelate Acceptor beads. The ALPHA signal is measured in counts per second (cps).

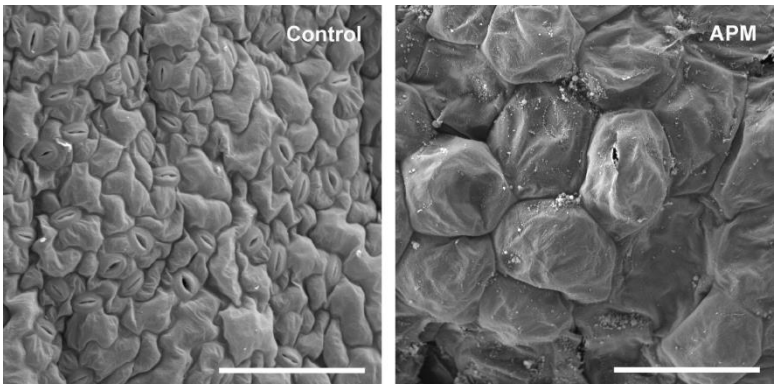

Fig. S5 Representative SEM images of leaf of WT (Col-0) Arabidopsis plant (11 das) grown either without (Control) or with microtubule depolymerizing drug APM (10 μM). Bars: 100 μm.