

Supporting Information

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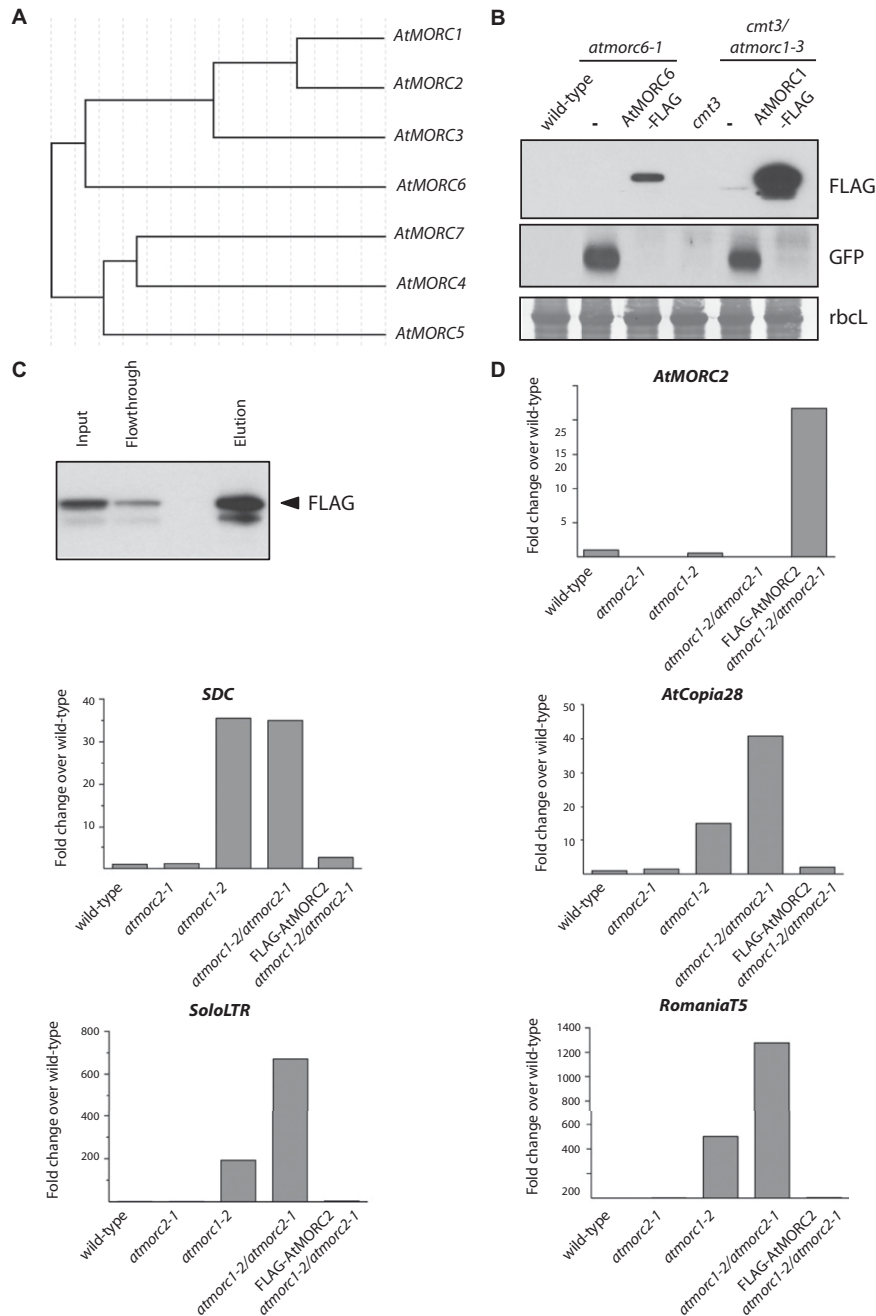


Fig. S1. Phylogenetic analysis and epitope-tagging of *Arabidopsis* Microrchidia (AtMORC)1, AtMORC2, and AtMORC6. (A) Phylogenetic analysis of the AtMORC gene family in *Arabidopsis thaliana*. The alignment was made with GeneBee using the default parameters. (B) AtMORC1 and AtMORC6 transgenic lines. FLAG epitope-tagged AtMORC1 and AtMORC6 were expressed under their respective endogenous promoter in their respective mutant background. Protein expression and complementation of the *SDC::GFP* silencing defects were probed by Western blotting. The large subunit of rubisco (rbcL) was used as the loading control. (C) Transgenic AtMORC2 line. FLAG epitope-tagged AtMORC2 was expressed under its respective endogenous promoter in the *atmorc1/atmorc2* double mutant background. FLAG-AtMORC2 is enriched in the elution fraction after immunoprecipitation. (D) Complementation of transcriptional derepression by expression of FLAG-AtMORC2 in *atmorc1/atmorc2*. RT-PCR shows increased levels of FLAG-AtMORC2 transcripts compared with wild-type and *atmorc1-2* despite being expressed under its respective endogenous promoter. Derepression of *suppressor of drm2 cmt3* (*SDC::GFP*), *AtCopia28*, *Solo long terminal repeat (LTR)*, and *RomaniaT5* is suppressed by overexpression of FLAG-AtMORC2.

