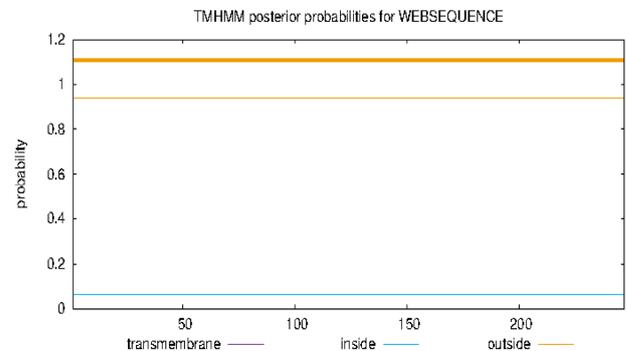
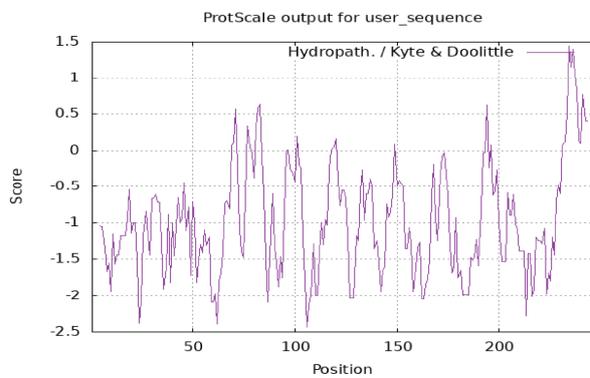


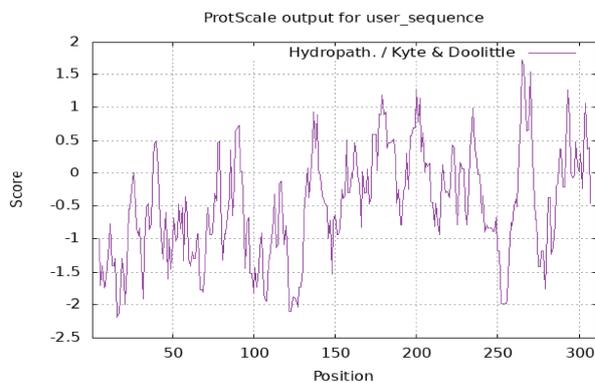
Supplementary Figure S1: The secondary structure and tertiary structure of PdMYB2R089/151 protein. (a) shows secondary structure and tertiary structure of PdMYB2R089 protein. (b) shows secondary structure and tertiary structure of PdMYB2R151 protein.

PdMYB2R089

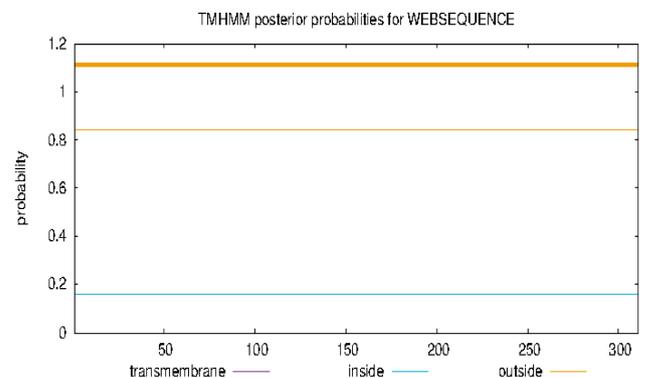


PdMYB2R151

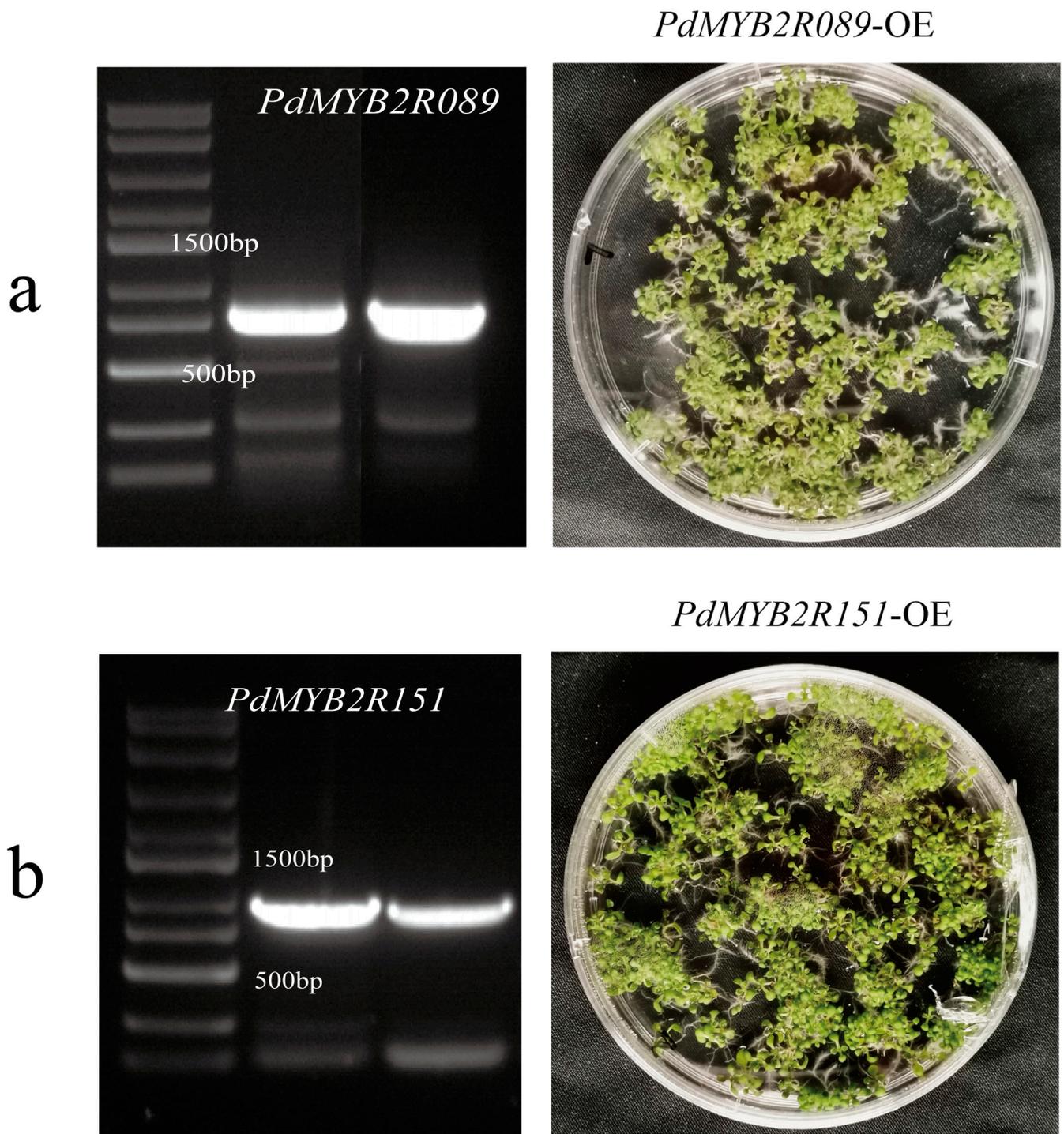
Hydrophobicity



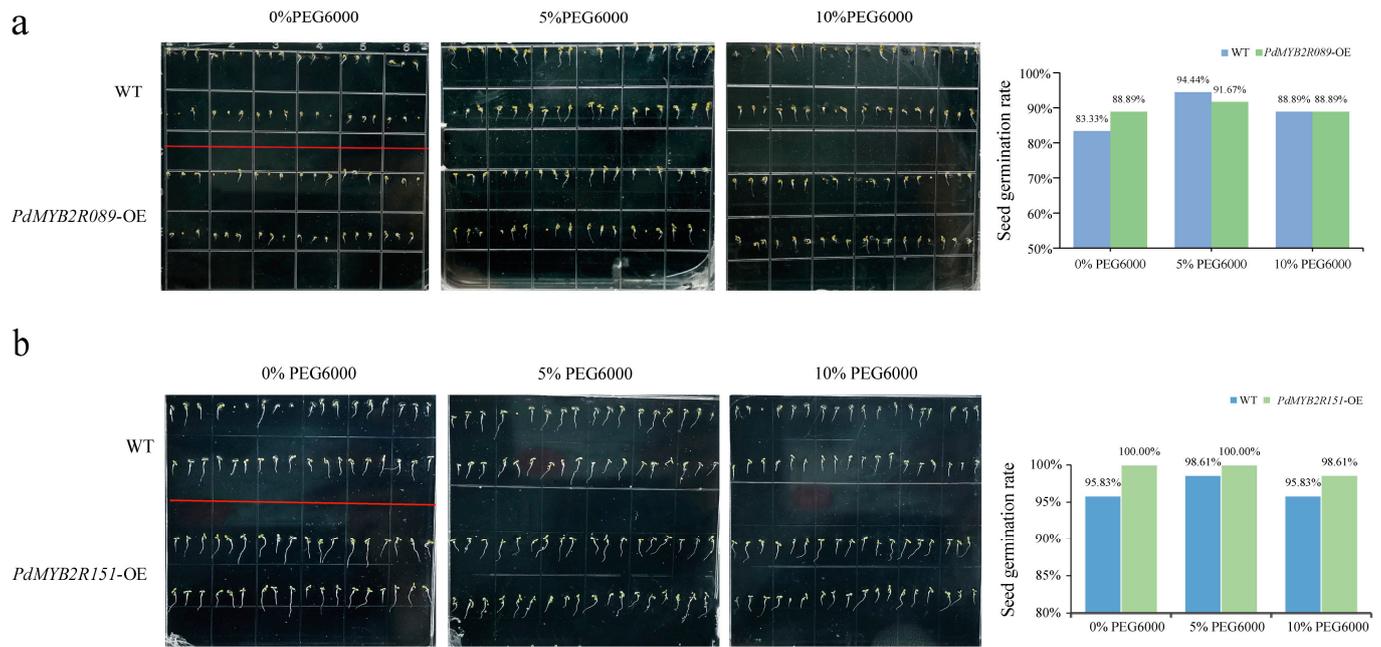
Transmembrane helices



Supplementary Figure S2: The hydrophobicity and transmembrane domain of PdMYB2R089/151 protein;



Supplementary Figure S3: PCR detection of overexpressed transgenic plants and homozygous transgenic plants. (a) shows PCR detection and homozygous *PdMYB2R089*-OE transgenic plants. (b) shows PCR detection and homozygous *PdMYB2R151*-OE transgenic plants.



Supplementary Figure S4: Seed germination of WT and transgenic plants under different PEG6000 concentration gradients. (a) shows seed germination of WT and *PdMYB2R089-OE* plants under drought stress. (a) shows seed germination of WT and *PdMYB2R089-OE* plants under drought stress.

Supplementary Table S1: Physicochemical properties analysis of PdMYB2R089/151 protein;

Supplementary Table S2: Primer information is required for vector construction.

Supplementary Table S3: Protein information for protein-protein interaction prediction.