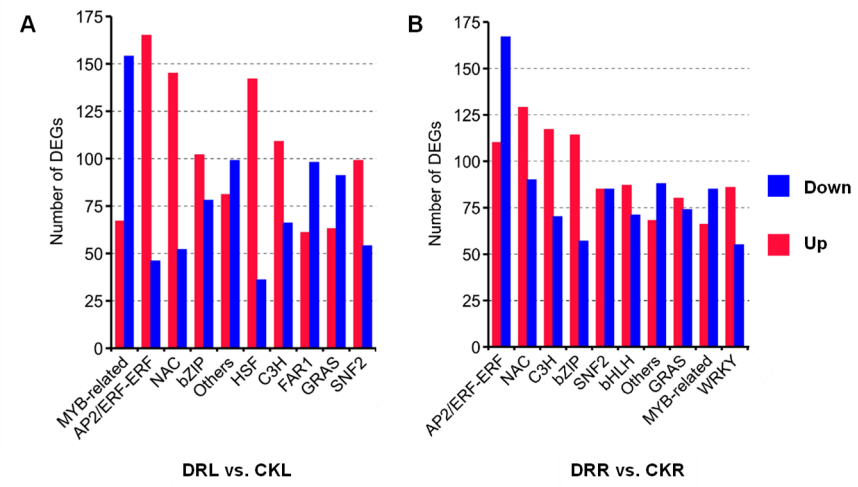

Figure S1: Heat maps of LmMYB1 and drought stress-related genes from transcriptome data. (**A,B**) stands for comparative combination DRL vs. CKL (**A**) and DRR vs. CKR (**B**), respectively. Blue represents genes that are down-regulated, while red represents genes that are up-regulated.



Figure S2: Vector construction of *LmMYB1*.

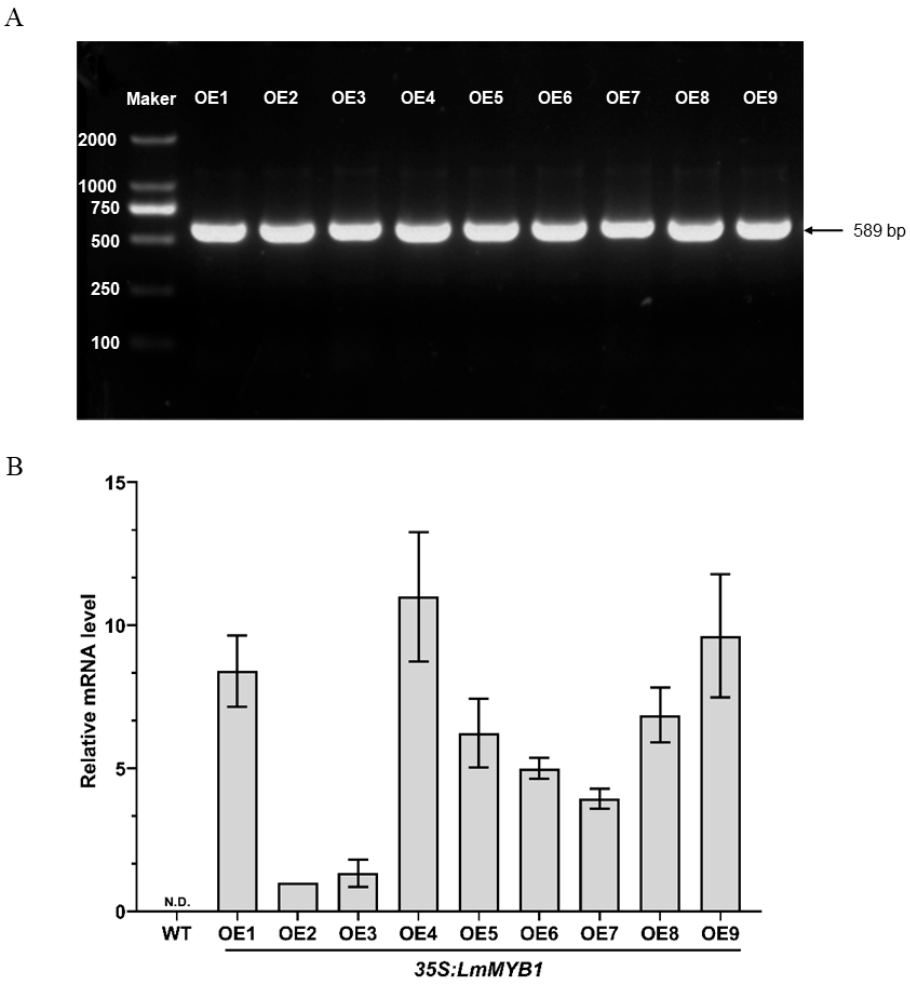

Figure S3: Validation of transgenic *Arabidopsis*. (**A**) DNA detection of T1 generation of transgenic *Arabidopsis* plant via RT-PCR. The target gene for positive plants screening is hygromycin phosphotransferase (HPT, 589 bp). (**B**) The expression of *LmMYB1* in transgenic *Arabidopsis* lines was validated through qRT-PCR.

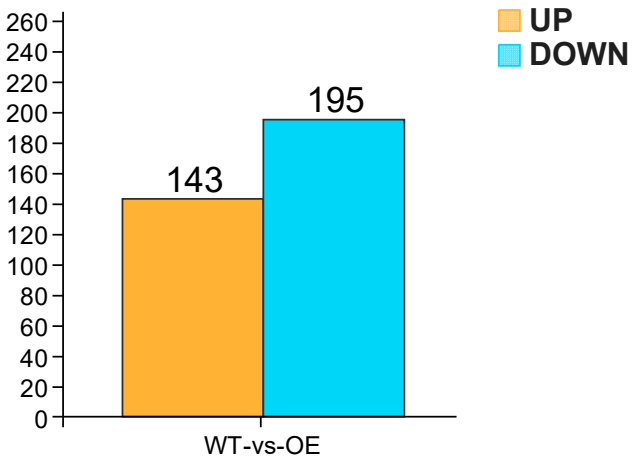

Figure S4: Histogram of the number of differentially expressed genes.