

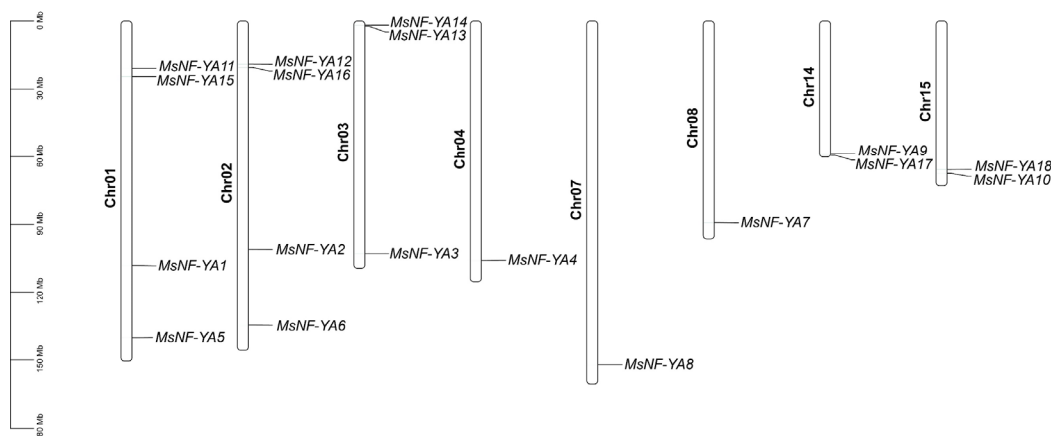


Figure S1. Chromosomal location of *NF-Y* genes in *Miscanthus*.

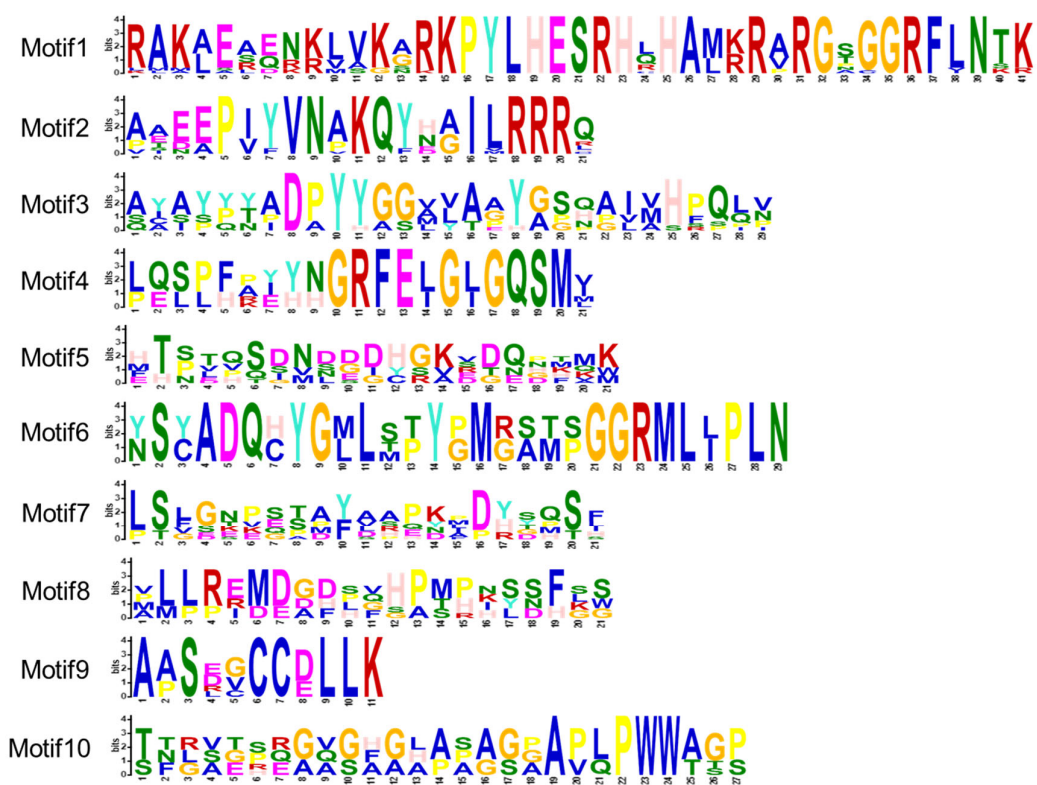


Figure S2. Analysis of conserved motifs in NF-YA proteins in *Miscanthus*.

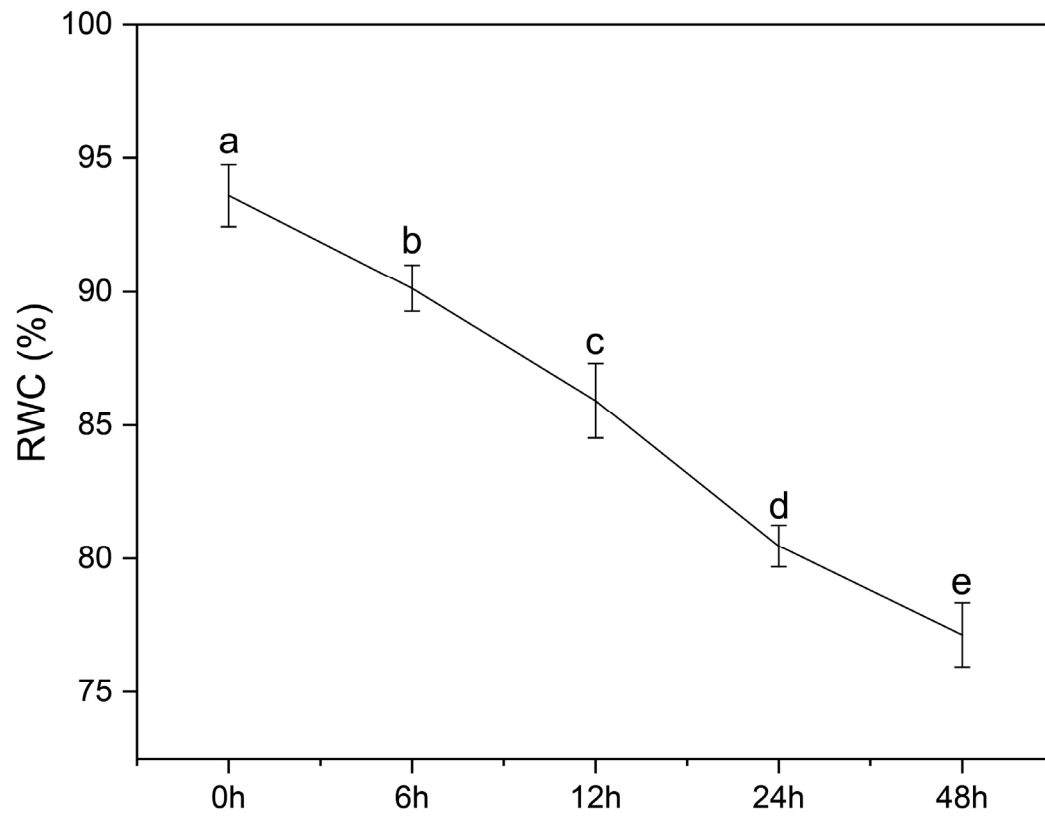


Figure S3. RWC of *Miscanthus* seedling leaves subjected to dehydration/osmotic stress. According to Tukey's test, differences were assessed using one-way analysis of variance (ANOVA) at $P < 0.05$.

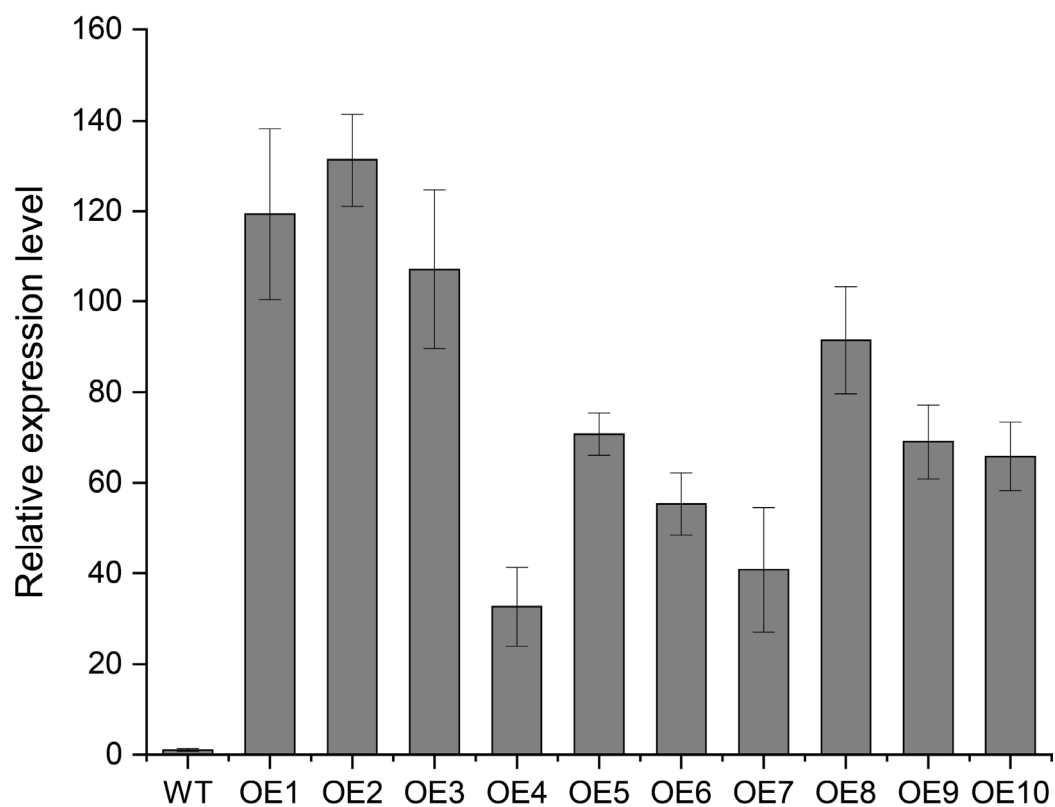


Figure S4. Relative expression levels of transgenic lines by RT-qPCR.

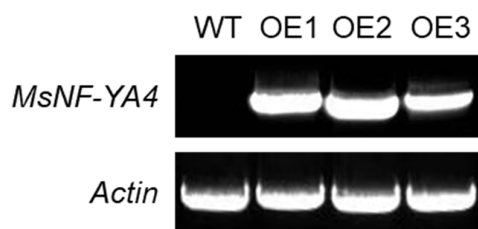


Figure S5. Confirmation of transgenic *MsNF-YA4 Arabidopsis* lines through RT-PCR.

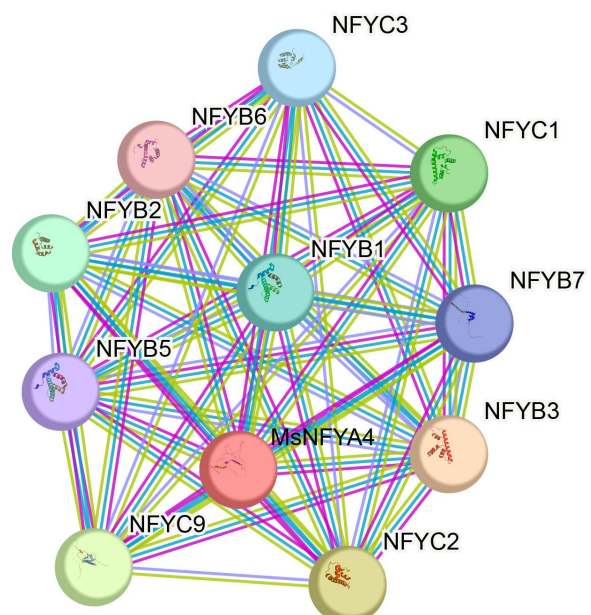


Figure S6. MsNF-YA4 protein network interaction using *Arabidopsis* model.

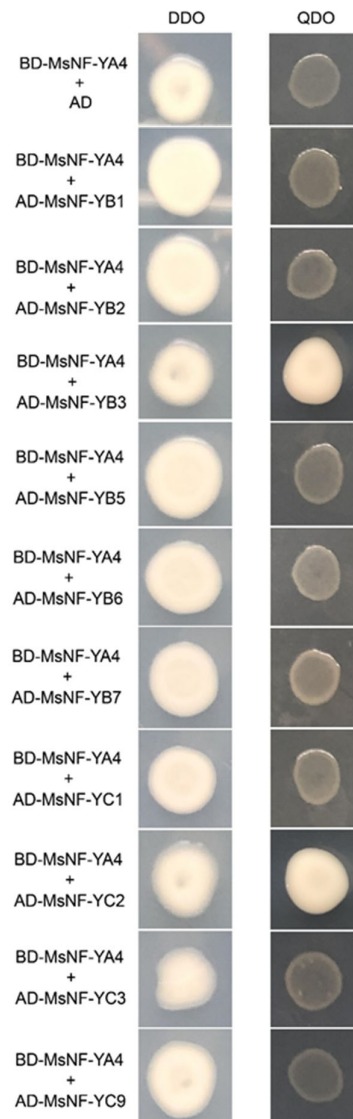


Figure S7. Screening of MsNF-YA4 interacting proteins. Yeast point-to-point detection between MsNF-YA4 and interacting candidates. Positive transformants were verified by growth on selective media SD/-Leu/-Trp (DDO) and SD/-His/-Leu/-Trp/X- α -Gal (QDO/X).

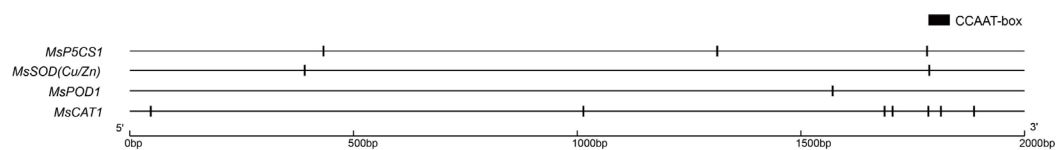


Figure S8. Analysis of CCAAT-box *cis*-acting element in the promoters of *MsP5CS1*, *MsSOD(Cu/Zn)*, *MsPOD1*, and *MsCAT1*.