



Figure S5. Variations in the protein sequences of SG19 R2R3-MYB proteins across different plant species. The alignment of protein sequences from *Persea americana*, *Arabidopsis thaliana*, *Cinnamomum micranthum*, *Citrus clementina*, *Musa acuminata*, *Petunia axillaris*, *Phoenix dactylifera*, and *Solanum lycopersicum* highlights conserved domains (black). The R2R3-MYB DNA-binding domain is highly conserved across species and is highlighted as follows: R2 region (red line) and R3 region (blue line). The C-terminal transcriptional activation domain (TAD), which plays a key regulatory role, is highlighted with dark green circles. The R2R3-MYB domain exhibits greater conservation across species compared to the TAD domain. The variation in Type A and Type B allele is highlighted using red boxes.