



**Supplementary Figure 1.** Phylogenetic analysis of LjaMYB12, Arabidopsis R2R3-MYBs and representative subgroup 7 MYBs in other plants. The Arabidopsis R2R3-MYB sequences were accessed from TAIR (<https://www.arabidopsis.org/>). The representative subgroup 7 MYBs are CcMYB12 (AXF92691.1) from *Cynara cardunculus var. scolymus*, GhMYB1 (CAD87007.1) from *Gerbera hybrid cultivar*, GtMYBP3 (BAM71801.1) from *Gentiana triflora*, MdMYB22 (AAZ20438.1) from *Malus domestica*, PsMYB12L (QBK15080.1) from *Paeonia suffruticosa*, SIMYB12 (ACB46530.1) from *Solanum lycopersicum*, Sorghum Y1 (AAX44239.1) from *Sorghum bicolor*, VvMYBF1 (ACT88298.1) from *Vitis vinifera*, and ZmMYBP (P27898.1) from *Zea mays*.