

**Figure S1. RNA quality controls information.** (a) Agarose electrophoresis of extracted RNA for each biological replicate of F<sub>1</sub> progeny under control or drought treatment. (b) Agarose electrophoresis of pooled RNA. (c) Detection of RNA integrity using the Agilent 2100. ZTR16101893 to ZTR16101904 represent drought-sensitive plants under control conditions (1, 2, and 3), drought-sensitive plants under drought conditions (1, 2, and 3), drought-tolerant plants under control conditions (1, 2, and 3), and drought-tolerant plants under drought conditions (1, 2, and 3), respectively.

**Figure S2. Efficiency (a) and melting curve (b) of primers used for miRNA expression determined by stem-loop qRT-PCR.**

**Figure S3. Efficiency (a) and melting curve (b) of primers used for miRNA target genes detected by qRT-PCR.**

**Figure S4. Expression levels of *SPL\_2* and *Zinc finger (C3HC4 type RING finger)* under control and 150 mM mannitol treatment for 6 h.**