

## **Description of Additional Supplementary Files**

**Supplementary Data 1.** The binding free energy (kcal/mol) of compounds generated using AILDE.

**Supplementary Data 2.** The DEGs responsive to ABA relative to DMSO.

**Supplementary Data 3.** The DEGs responsive to DBSA relative to DMSO.

**Supplementary Data 4.** The GO analysis of DEGs responsive to both DBSA and ABA treatment relative to DMSO.

**Supplementary Data 5.** The GO analysis of unique DEGs responsive to ABA treatment relative to DMSO.

**Supplementary Data 6.** The GO analysis of unique DEGs responsive to DBSA treatment relative to DMSO.