



Fig. S4 Overexpressing *Inc000283* lines are more tolerant to drought stress. **a** Phenotype of WT and OE *Inc000283* plants before and after subjecting to heat stress. Drought treatment was carried out on 20-day-old Arabidopsis plants. **b** The percentage of leaves with different colors recovered 5 days after heat treatment in Arabidopsis. **c** The fresh weight to dry weight ratio of Arabidopsis leaves before and after undergoing 38°C heat treatment. **d-f** MDA content, POD activity, and proline content in Arabidopsis leaves under different times of heat stress. The asterisks above the bars indicate statistical significance using Student's *t*-test (\*,  $P < 0.05$ ; \*\*,  $P < 0.01$ ; \*\*\*,  $P < 0.001$ ).