



Figure S1. Field phenotype of CM499. It was planted in Zhoucun District, Shandong Province, East China. Bar stood for 10 cm.

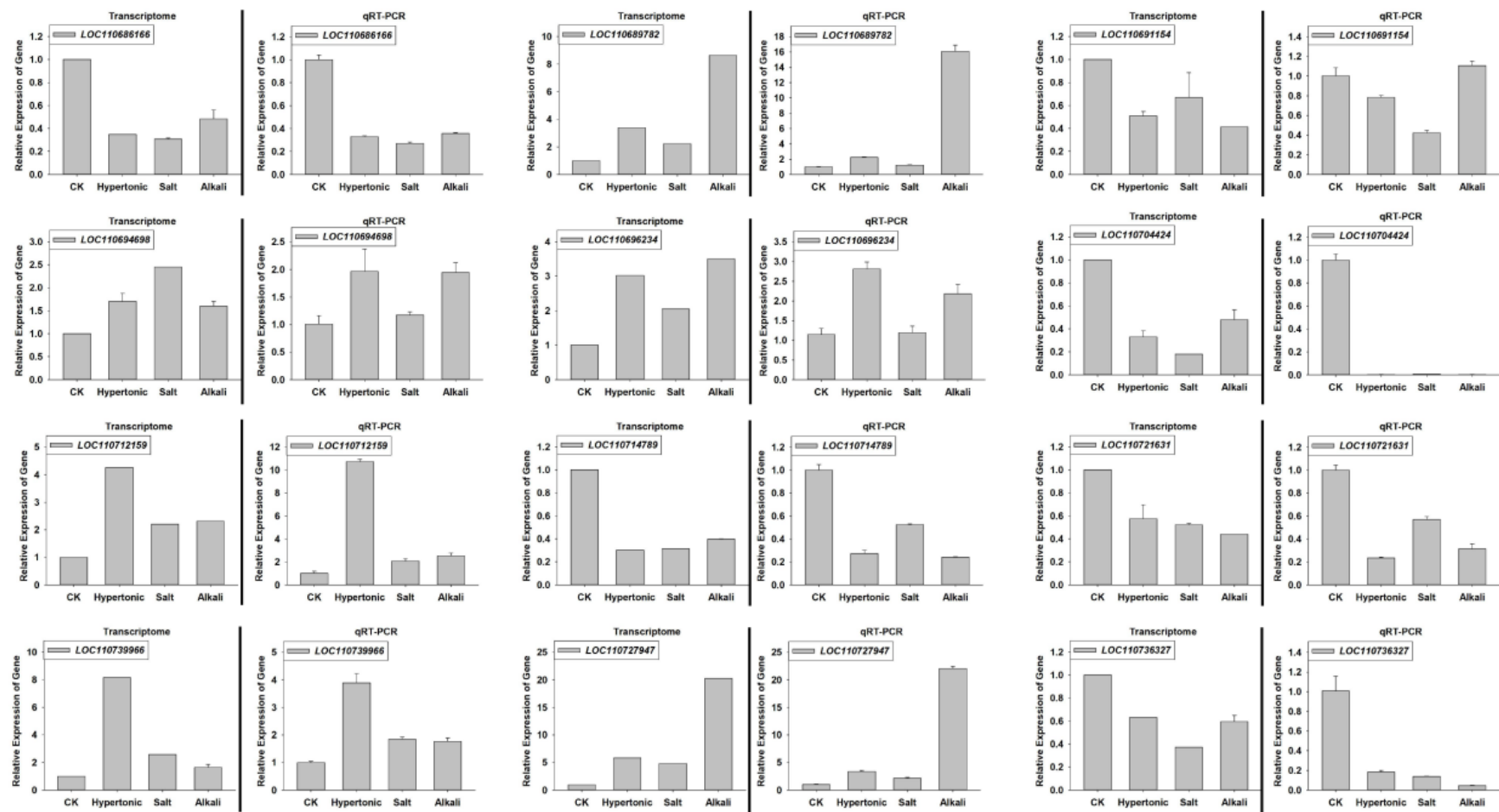
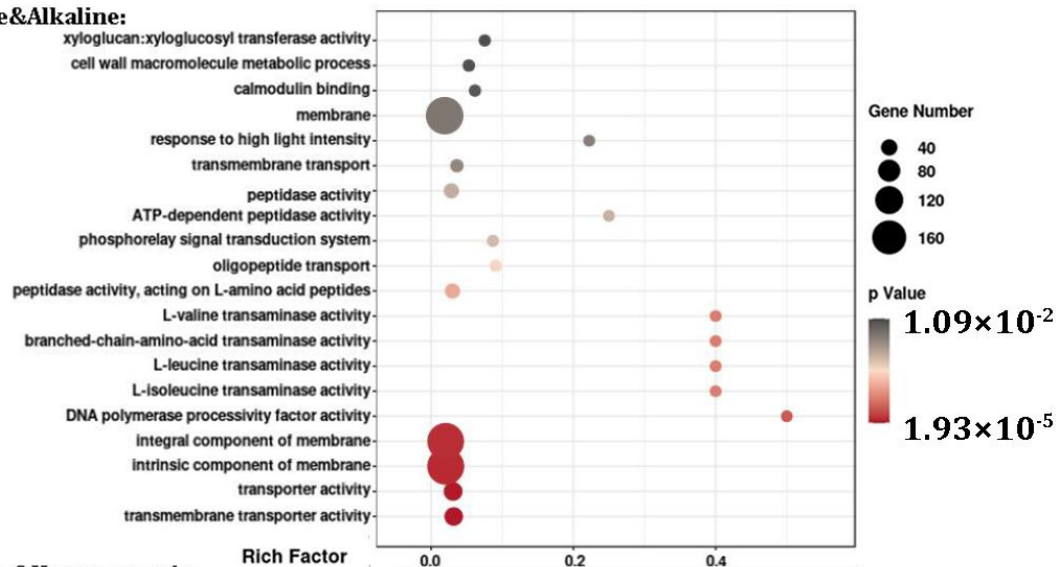
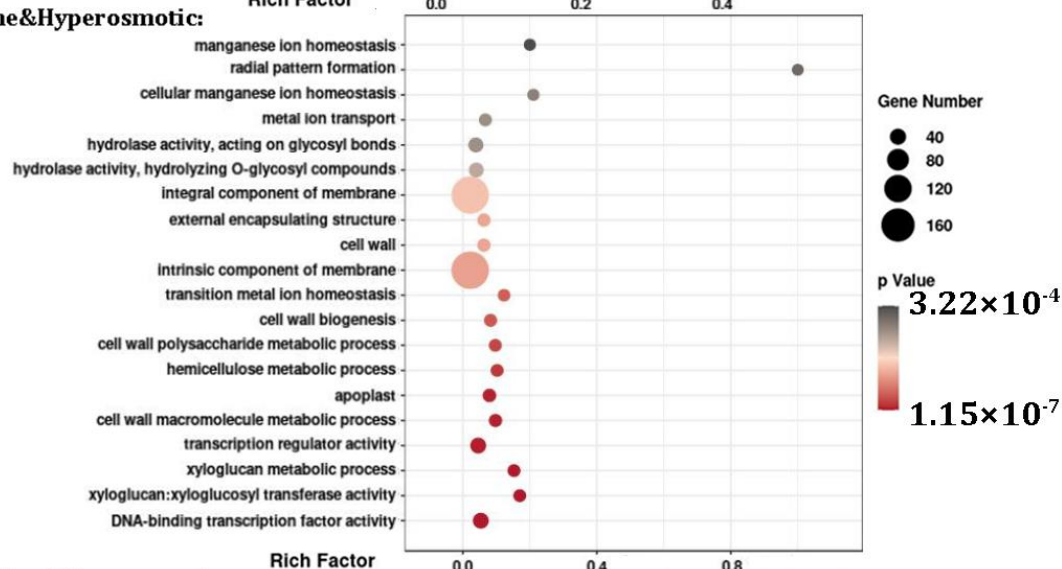


Figure S2. Expression analysis of quinoa genes via qRT-PCR.

Saline&Alkaline:



Saline&Hyperosmotic:



Alkaline&Hyperosmotic:

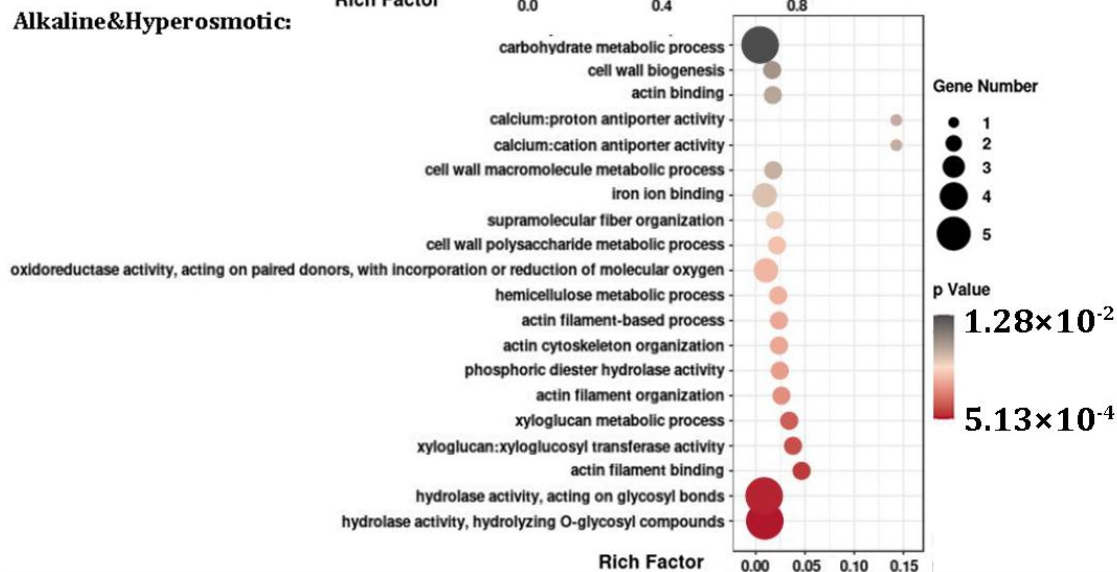


Figure S3. GO enrichment analysis of DEGs responded to double stresses.

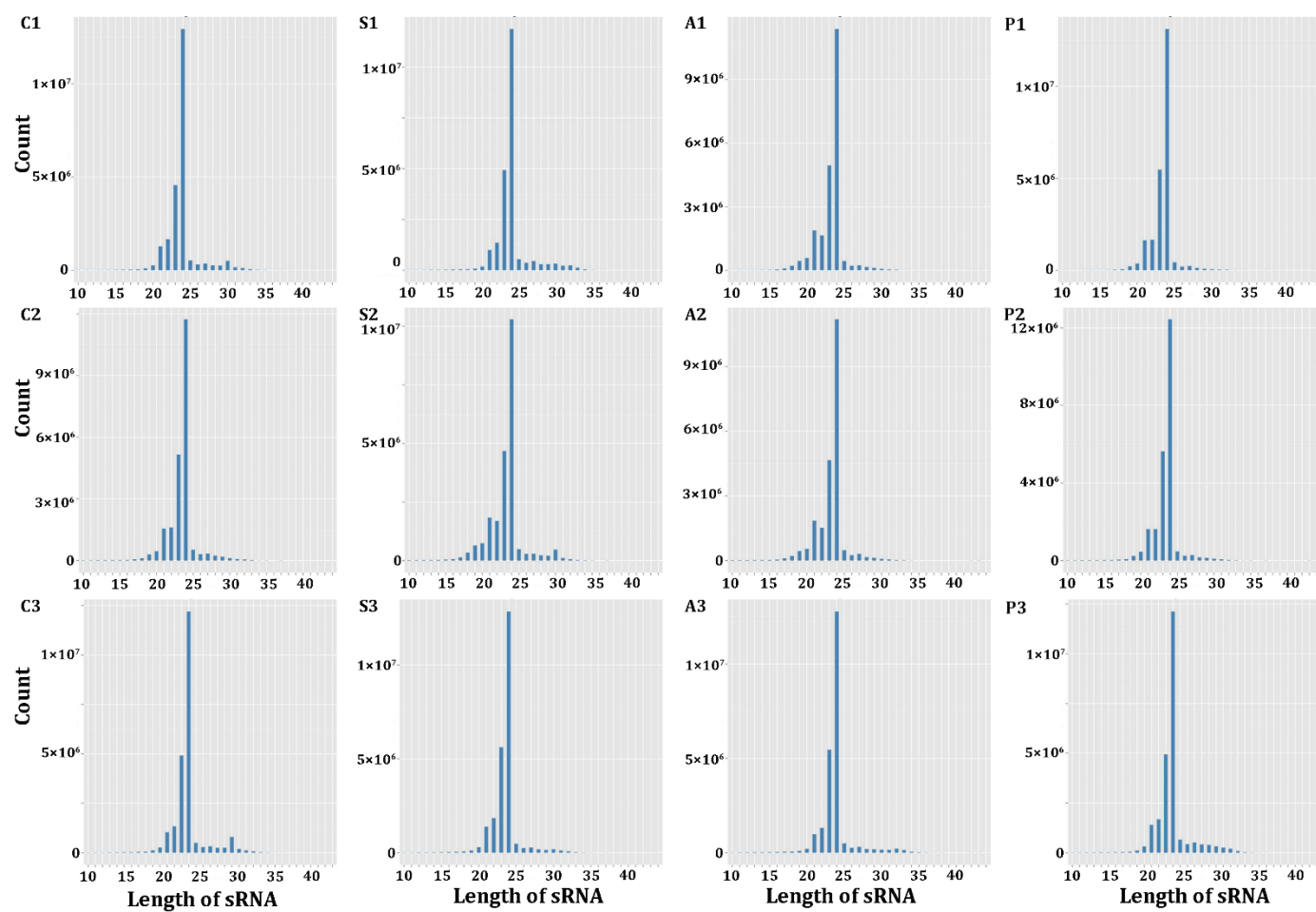
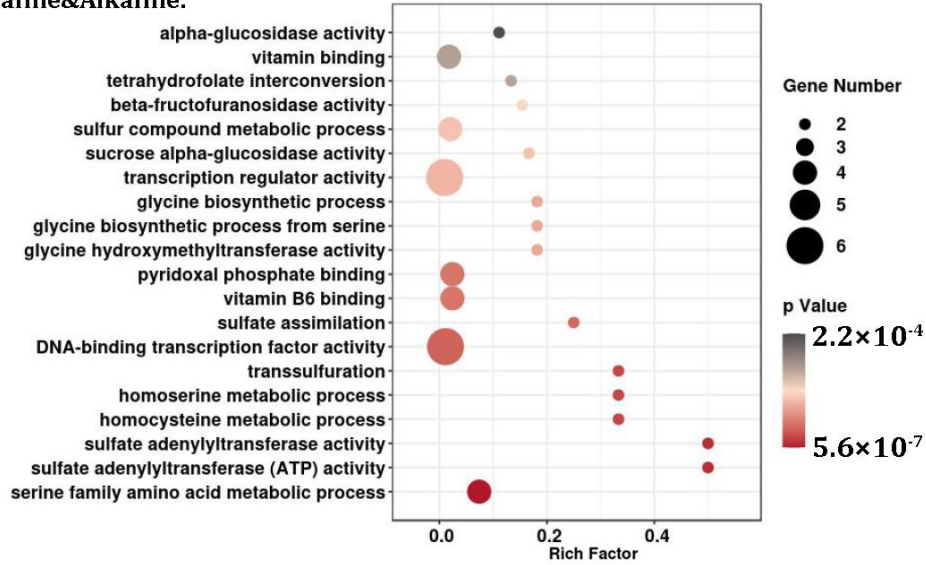
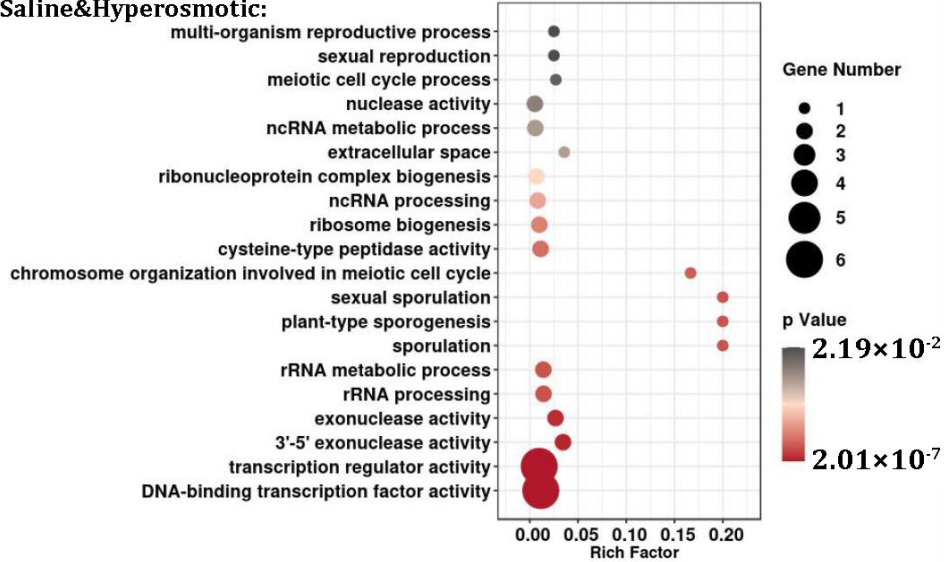


Figure S4. Length distribution of reads in small RNA sequencing.

Saline&Alkaline:



Saline&Hyperosmotic:



Alkaline&Hyperosmotic:

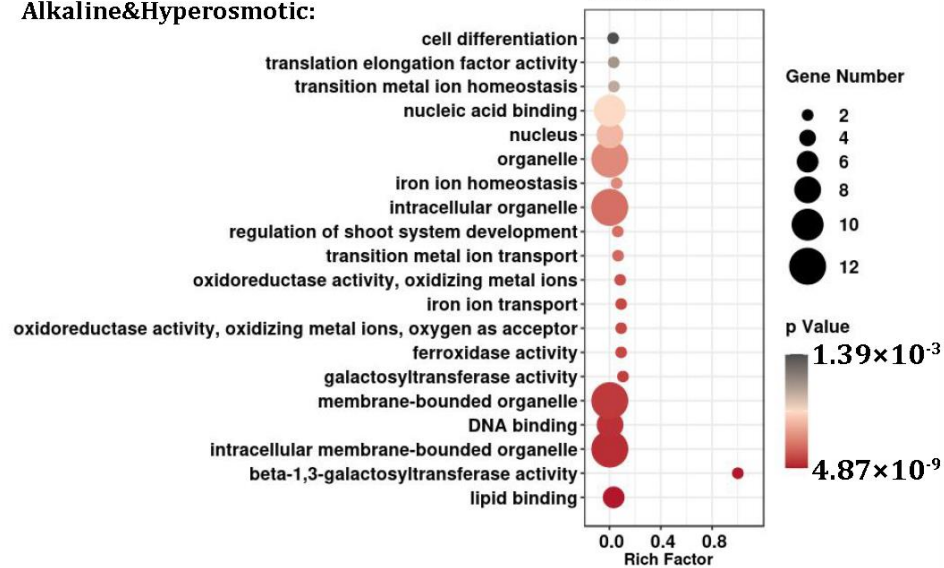


Figure S5. GO enrichment analysis of DEM targets responded to double stresses.