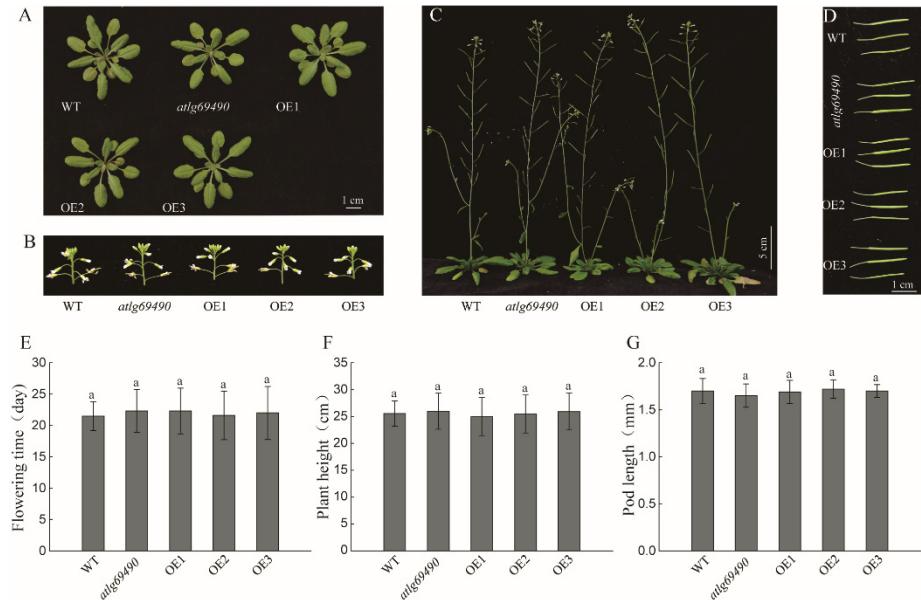
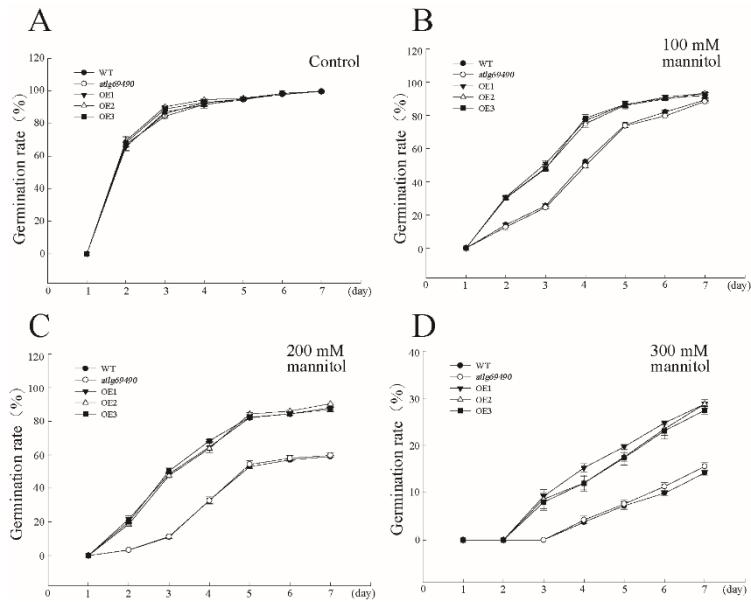


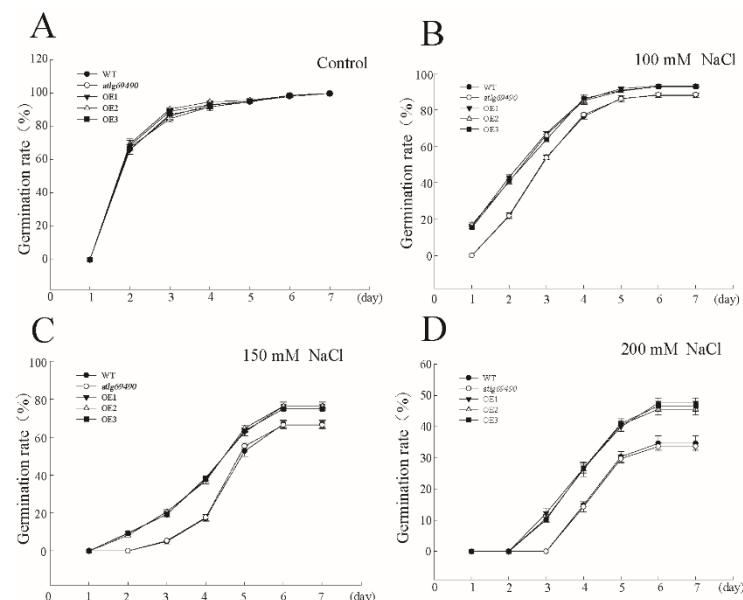
Supplement Figure S1 Identification of transgenic *PwNAC38* plants of *Arabidopsis thaliana*.



Supplement Figure S2 Effects of overexpression *PwNAC38* on growth and development of *Arabidopsis*. (A) Morphology of rosette leaves. Phenotype (B) and statistics (E) of flowering time under normal conditions. Phenotype (C) and statistics (F) of plant height under normal conditions. Phenotype (D) and statistics (G) of pod length under normal conditions. Similar letters indicate no significant difference under Dunnett's test ($P<0.05$).



Supplement Figure S3 Statistics of germination rates within 7 days after different concentrations of mannitol treatment.



Supplement Figure S4 Statistics of germination rates within 7 days after different concentrations of NaCl treatment.

Supplement Table S1 Primers used in this experiment

Application	Primer name	Sequence(5'—3')
	ANAC019 F: AATTCAAGCAACAACGGTACTTC	R: GGTTTCTGTTGGTTAAGTCC
	ATHB-7 F: GCAAGTGGCTATATGGTTTAG	R: GAAGCCAAGTTGCGTAGTTT
	DREB2A F: CATGTTGATGTCGATGAGCTT	R: ATTCCGTAGTTGAGGCTTGTA
	ERD1 F: CTTCTCTATCAGCACGAAACG	R: CGGTGCGATATATTGACAATCC
RT-qPCR	RD29A F: TTCTGTAAGGACGACGTTTACA	R: CGTACTCGTTACATCCTCTGTT
	ABF3 F: GATGTGGTTAACCGTTCTAAC	R: CAGCTTGCAGTAGATTGTTGTT
	ABI5 F: AATAAGAGAGGGATAGCGAACG	R: GCTACCACCAACCTCTATGTATC
	NCED3 F: GATGAATTGTTCCAGAGAGCG	R: AACACTAGGATCAGCCGTTTA
	Actin F: GGTAACATTGTGCTCAGTGGTGG	R: AACGACCTTAATCTCATGCTGC
	PwNAC38- F: ATGACCTCTTAGCTCGAACCCC	PwNAC38-CDS-cexu-R: TTAATAATCTTCCAAGGGATTGAA
	CDS-	
	PwNAC38- F: GATTACGCTCATATGATGACCTCTTAGCTT	R: <u>ACCCGGGTGGAATTCTTAATAATCTTCCAAG</u>
Vector construction	AD PwNAC38- F: GAGGACCTGCTATGATGACCTCTTAGCTT	R: <u>CCGCTGCAGGTGCACTTAATAATCTTCCAAG</u>
	BD	
	PwNAC38- F: CGGGCTGCAGGAATTCTGACCTCTTAGCTT	R: <u>CCCCCTCGAGGTGCACTTAATAATCTTCCAAG</u>
	1205	
Mutant identification	LP CTTTTAACCGTGGCTTTG	
	RP GTCCCCGAACCAACTAGACTC	
	LB ATTTGCCGATTCGGAAC	

Wavy lines in the primers indicate the overlapping sequences of seamlessly cloned linear vectors.