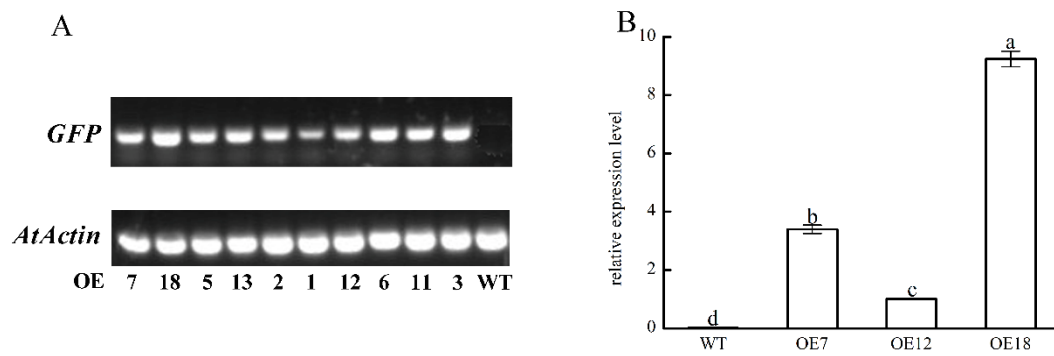


**Table S1.** Primers used in this study.

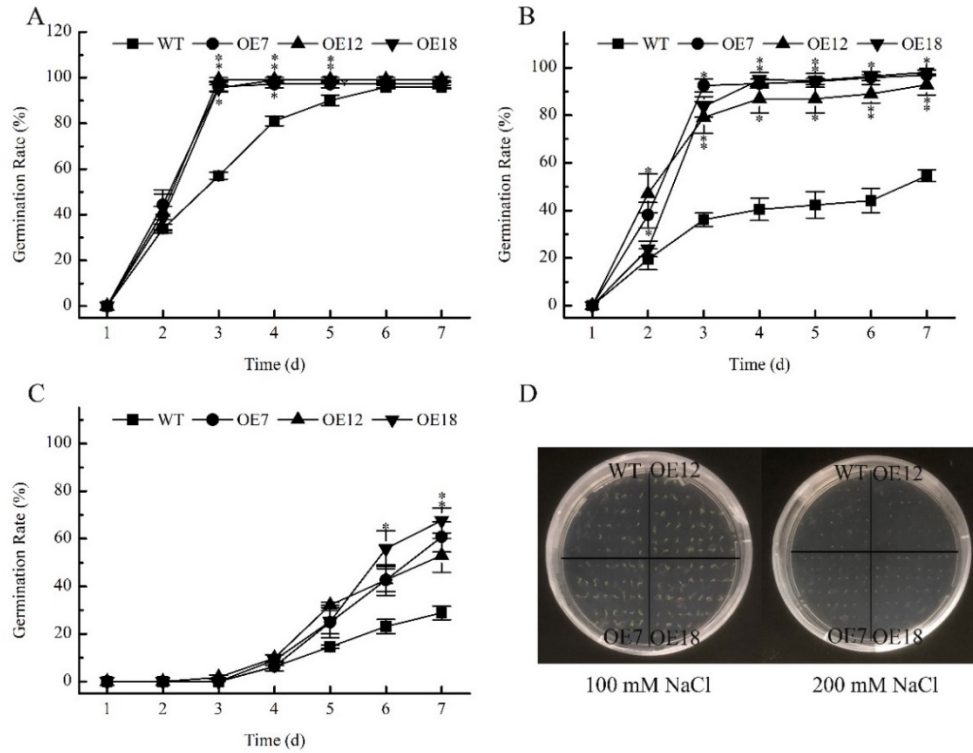
Primer name	Forward primer (5' to 3')	Reverse primer (5' to 3')
AtActin	GGTAACATTGTGCTCAGTGGTGG	AACGACCTTAATCTTCATGCTGC
GFP	CATCTTCTTCAAGGACGA	GTGGCTGTTGTAGTTGTA
pAC402-	tacaaatctatctctctcgagATGTCCGTG	GgatccccgggtaccgagctcAGTTTCATT
PSA3	ACCTCAACTAGCAC	ATTCTCTTGGAGAAATTGG
pAC013-	ggactctagaggatccccgggATGGAATCC	gcccttgctcaccatggtacc CATTCGAGA
PAO2	GGAGCCAAGAGTAATTCCGA	AATTAACAAAGGTGCCGATA
BD-PAO2	atggccatggaggccgaattcATGGAATCC GGAGCCAAGA	GcaggctgacggatccccgggCATTCGAGA AATTAACAAAGGTGC
AD-PSA3	gccatggaggccagtgaattcATGTCCGTG ACCTCAACTAGCAC	cagctcgagctcgatggatccTTAAGTTTC ATTATTCTCTTGGAGAAATT
ZYN-	atttacgaacgatagtaattaaATGGAATCC	actgccacctcctccactagtCATTCGAGA
PAO2	GGAGCCAAGA	AATTAACAAAGGTGC
ZYC-	atttacgaacgatagtaattaaATGTCCGTG	actgccacctcctccactagtAGTTTCATT
PSA3	ACCTCAACTAGCAC	ATTCTCTTGGAGAAATTGG
nLUC-	acgggggacgagctcggtaccATGGAATCC	cagtcgacgcgttgatccCATTCGAGA
PAO2	GGAGCCAAGA	AATTAACAAAGGTGC
cLUC-	tacggtccccggggcggtaccATGTCCGTG	cagtcgacgcgttgatccTTAAGTTTC
PSA3	ACCTCAACTAGCAC	ATTATTCTCTTGGAGAAATT
pET32a-	catggctgatatcgatccgaattcATGGAATCC	agtgcggccgcaagctttgtcgacTTACATTCTG
PAO2	GGAGCCAAGAGTAATTCCGA	AGAAATTAACAAAGGTGCCG
pGEX4T1-	aatctggttccgcgtggatccATGTCCGTG	CtcgagtcgacccgggaattcTTAAGTTTC
PSA3	ACCTCAACTAGCAC	ATTATTCTCTTGGAGAAATT
pAC330-	catatggggctgcaggaattcATGTCCGTG	gggactagaactagtgatccTTAAGTTTC
PSA3	ACCTCAACTAGCAC	ATTATTCTCTTGGAGAAATT
pV190-	aggactttacttaatggatccTATCGTTCTG	cctagacctataactggatccCAAACCTTAG
PAO2	TGGTGGGGTGT	GTAATAGTTTTAGATCCATAAAA
pV190-	aggactttacttaatggatccGAGTCTAAA	cctagacctataactggatccAGCCTCATT
PSA3	GCTTTCTATGAATTTCAAGA	CATCATAGCAAGGA



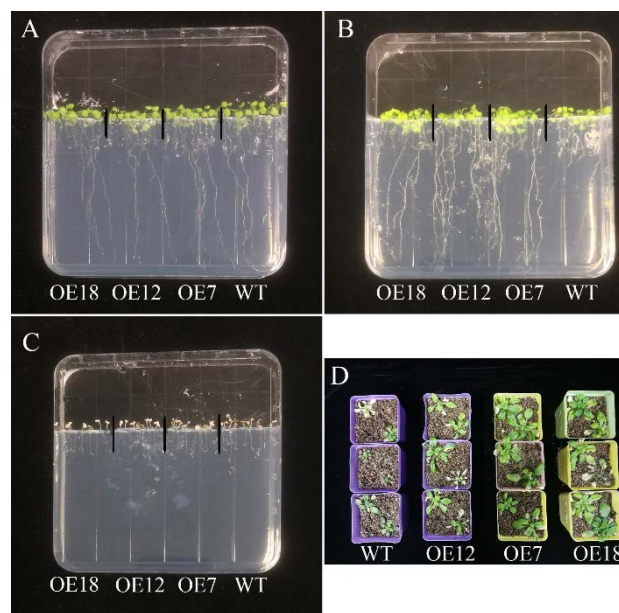
**Figure S1.** White streaks characteristic of silencing PDS in cucumber.



**Figure S2.** Semi-quantitative PCR analysis of *CsPAO2* expression and relative expression level of *CsPAO2* in OE7, OE12 and OE18. A, semi-quantitative PCR analysis; B, relative expression level of *CsPAO2* in OE7, OE12 and OE18. Relative expression level of *CsPAO2* in OE12 was taken as 1.

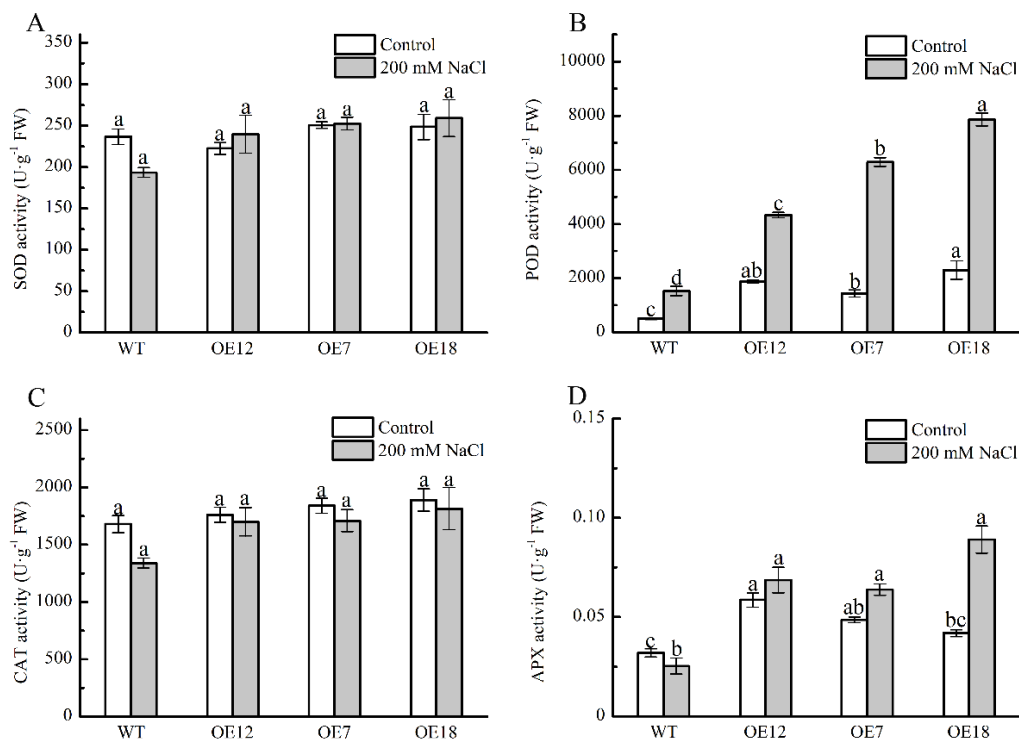


**Figure S3.** Seed germination rate of wild type (WT) and transgenic Arabidopsis lines (OE7, OE12 and OE18). A-C, time-course change of germination rate under 0 (A), 100 (B) and 200 (C) mM NaCl treatment. D, pictures of seeds grown on plates containing 100 and 200 mM NaCl for 7 days. Error bars represent standard error of three plates. Asterisks above lines indicate significant differences between WT and transgenic lines on the same day at  $P < 0.05$  (\*) according to Tukey test.



**Figure S4.** Root growth of wild type (WT) and transgenic plants (OE7, OE12 and OE18) under salt

stress. A-C, after 7 days of sowing on 1/2 MS medium without NaCl, seedlings were transferred onto 1/2 MS medium containing 0 (A), 100 (B) and 200 (C) mM NaCl, respectively, and pictures were taken on the seventh day. D, phenotype of Arabidopsis seedlings treated with 300 mM NaCl.



**Figure S5.** Antioxidant enzyme activities of wild type (WT) and transgenic Arabidopsis lines (OE12, OE7 and OE18). A, SOD; B, POD; C, CAT; D, APX. Arabidopsis seedlings cultivated in vermiculite were irrigated with 200 mM NaCl solution or water for 14 days. Error bars represent standard error of three replicates. The different letters indicate significant differences at  $P < 0.05$  between different genotypes under the same treatment according to Tukey test.