

Table S1. Cis-acting elements in the promoter region of *OsNAC1* and *OsNAC6* binding by MYB transcription factor.

Matrix ID	Score	Position	Strand	Sequence (CAPITALS: core sequences)
OsNAC1 NC_029258.1	8.491339	-551 to -542	+	CAACCTAAGA
	6.766874	-699 to -690	+	AAACCTTAAA
	6.0062394	-1208 to 1219	-	AAACCTCAAG
	5.913508	-623 to -614	+	TGTCTTAATT
	5.6907196	-1361 to -1352	+	AAAACTAAAAA
	5.5058193	-307 to -298	+	TGACCTCGGC
	4.659336	-698 to -689	+	AACCTTAAAAA
	4.070128	-782 to -773	-	TAAACTATT
	3.9510279	-1052 to -1043	-	TACTCTACTT
	3.7640855	-1779 to -1770	+	AAACCCAACC
OsNAC6 NC_029256.1	3.6692517	-1778 to -1769	+	AACCCAACCA
	8.695591	-1332 to -1323	+	AGACCTACTT
	6.7416577	-1200 to -1191	+	GACCCTACAG
	6.2968206	-1054 to 1495	-	ACACCTAAGC
	6.090226	-86 to -77	+	AACACTAGTA
	5.926167	-872 to -863	-	AGCCGTAGCT
	5.786418	-797 to -788	-	TGACATAGAA
	5.460014	-1021 to -1012	-	AAACCTTCTT
	5.359429	-745 to -736	-	AACTCTAAC
	5.177283	-1515 to -1506	+	TCCCCTACGA
	5.139875	-1361 to -1352	+	TACCCAAAAAA
	5.0971913	-300 to -291	+	TGACGTAAGC
	4.9563427	-889 to -880	-	TGCTCTAAAT
	4.770077	-81 to -72	-	TATCCTACTA
	4.5864944	-106 to -97	+	AGCCCTCCTC
	4.4865985	-1999 to -1990	-	TGATCTAACT
	4.3426924	-1764 to -1755	-	ATCCCTTATA
	4.3426924	-1580 to -1571	+	ATCCCTTATA
	4.1384006	-394 to -385	+	CACCCTGCGG
	3.942666	-814 to -805	+	TTACCTTACA

3.8799586	-473 to -464	+	TTCCCTCGCC
3.7542815	-1220 to -1211	-	CGACCTCACA
3.6927981	-1816 to -1807	-	ATTCCCTAATT
3.487473	-1141 to -1132	+	AAATCTACAC

Table S2. Primers were used in this study.

Primer name	Forward sequence (5'-3')	Reverse sequence (5'-3')	Purpose
OsACTIN	GGATCCATCTTGGCATCTCTCA	GGGCCAGACTCGTCGACTC	qRT-PCR
OsFLP	AGTTCTTGGAACAAATGGAC	TGTACCAATGCCCTTTGA	qRT-PCR
OsNAC1	CATGGTCCCCTCTGAGGTG	CACACGTTGCAGCATCGATC	qRT-PCR
OsNAC4	GGTGAAGGAGGACAACGACT	TCAGAATGGTGGCAGGATTGT	qRT-PCR
OsNAC5	GGTTGGATGATTGGGTGTTGT	CGTAGAACCCATAGTCGGAGA	qRT-PCR
OsNAC6	CTGTACGGAGAGAAGGAGTGG	GTGCATGATCCAGTGGTCT	qRT-PCR
OsDST	ATCCAAGAAGGCAAGGTCAATC	CACACGAGGAGGAATTGGAAG	qRT-PCR
Osperoxidase 24 precursor	GTCTCCAGGACCTCGTCGTC	AAAAGGTTGCAGTCCCCG	qRT-PCR
OsLEA3	CGGCAGCGTCCTCCAAC	CGGTCACTCCCAGCGTG	qRT-PCR
OsDREB2A	GCTGCACATCAGCACCTCA	TCCTGCACCTCAGGGACTAC	qRT-PCR
proOsNAC1	GGAATTCCACACATCTCGCATGG-TAAC	GCGTCGACCGCTTCTGCTT-GCTCTC	Y1H
proOsNAC4	GGGTACCGGTGTCACATCGGA-TATTG	CAGCCTCTGACAAACCAGTC	Y1H
proOsNAC5	GGAATT CCTATTGTCAC-GAGCCAAGG	GGGTAC-CTCAATCTCCGATCTGAGGCC	Y1H
proOsNAC6	GGAATTCCAATGTTGAC-GGGTCAATGAG	CCTCGAGCTCTCCCCCTCTCCGGT	Y1H
OsFLP-RNAi	GCGTCGACCCGGGTGTGCTTCG-TACTCAAATTGC	GGGGATCCGAGCTCAG-TTCTGCCTGAGACAACCTT	Knockdown line generation
OsFLP-OE	ATGGCGACCGGACCCGATCTG	TCATAGGCTATTAAGGAGAGC	Over-expression line generation

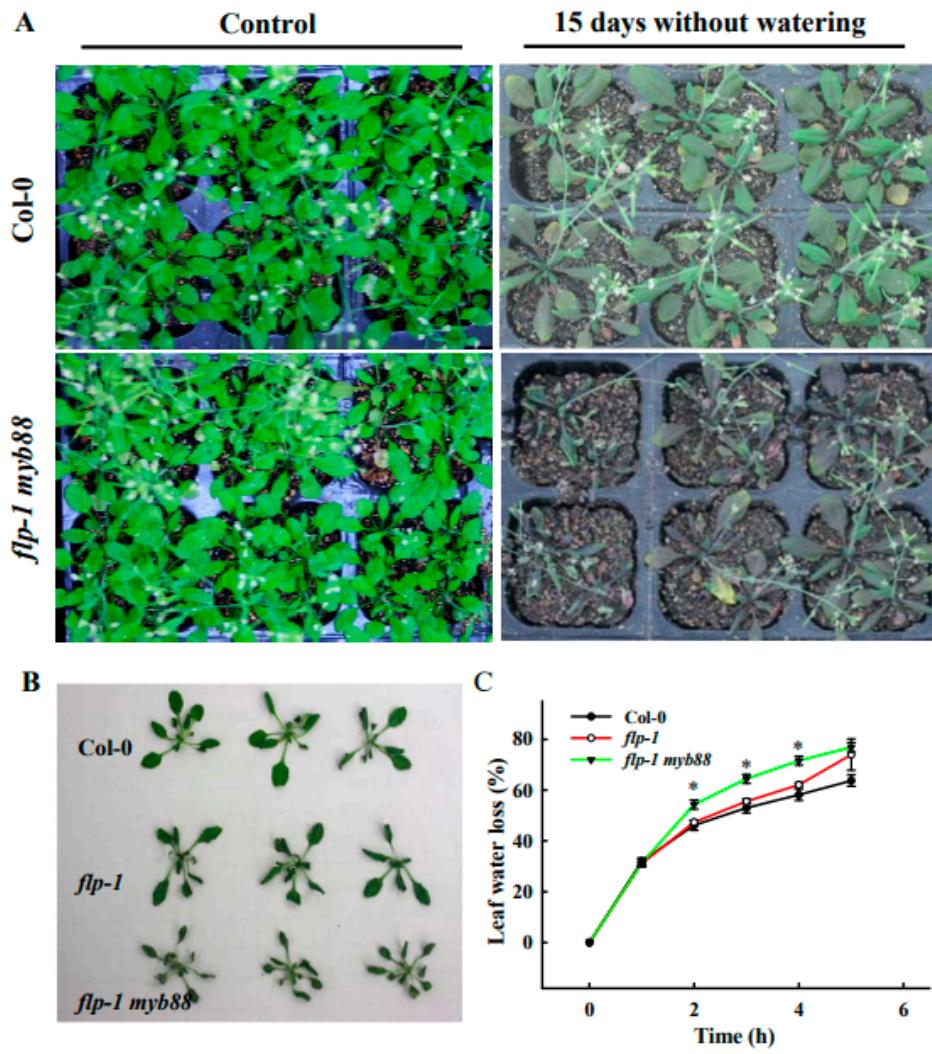


Figure S1. Arabidopsis *flp-1 myb88* double mutants were sensitive to drought stress. (A) Drought sensitivity was rescued in *flp-1 myb88* mutants compared with Col-0 after 15 days without water. (B,C) Water loss were detected from detached leaves. Asterisks indicate a significant difference *flp-1 myb88* mutants to Col-0. (Student's t-test, *P < 0.05).

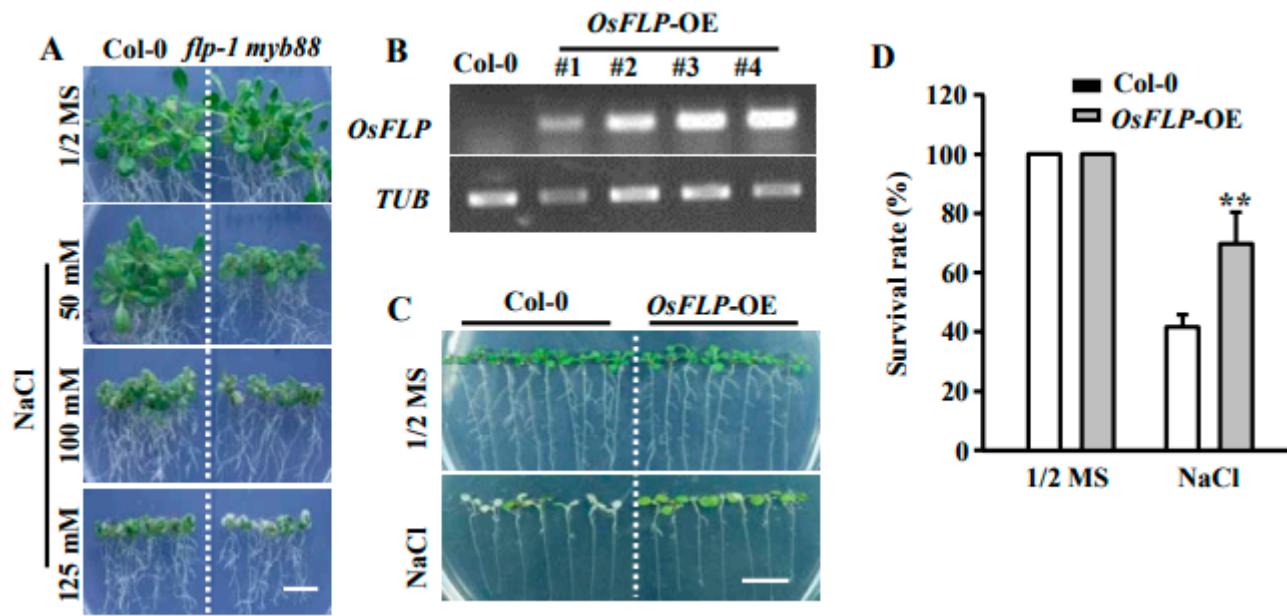


Figure S2. Overexpression of *OsFLP* enhanced salt tolerance both in rice and *Arabidopsis*. (A) Five days Col-0 and *fip-1 myb88* seedlings were treated by 50 mM 100 mM and 125 mM NaCl for one week. Bars = 1.0 cm. (B) Expression levels of *OsFLP* overexpression lines were detected by semi-quantitative reverse transcription PCR (Sqrt-PCR). (C) Five days Col-0 and *OsFLP* seedlings were treated by 150 mM NaCl for one week. Bars = 1.0 cm. (D) Analysis of survival rate after salt treatment. Error bar means \pm SD. Asterisks indicate a significant difference to wild type (Student's t-test, **P < 0.01, *P < 0.05).

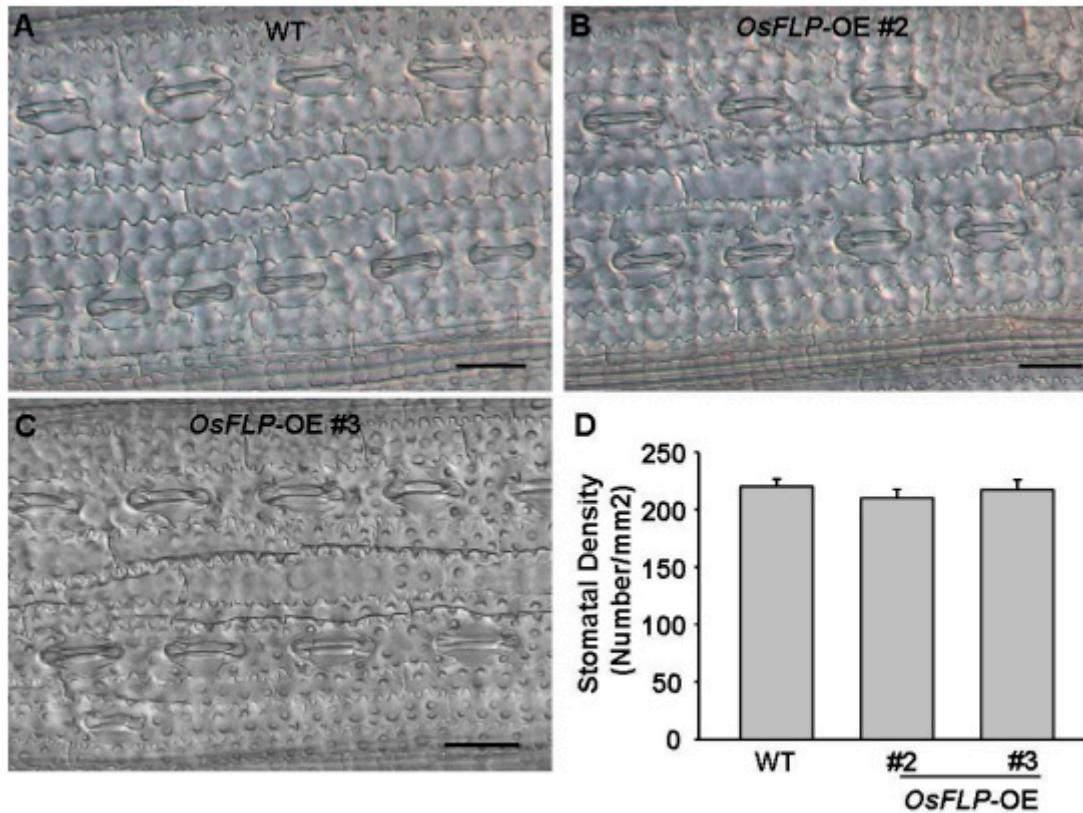


Figure S3. Overexpression of *OsFLP* gene has no obvious impact on stomatal density. (A-C) DIC images of rice leaf epidermis from 10-day-old WT and *OsFLP*-OE plants. Bars = 20 μ m. (D) No significant difference of stomatal density was found between *OsFLP*-OE and WT mature leaves ($n = 10$).

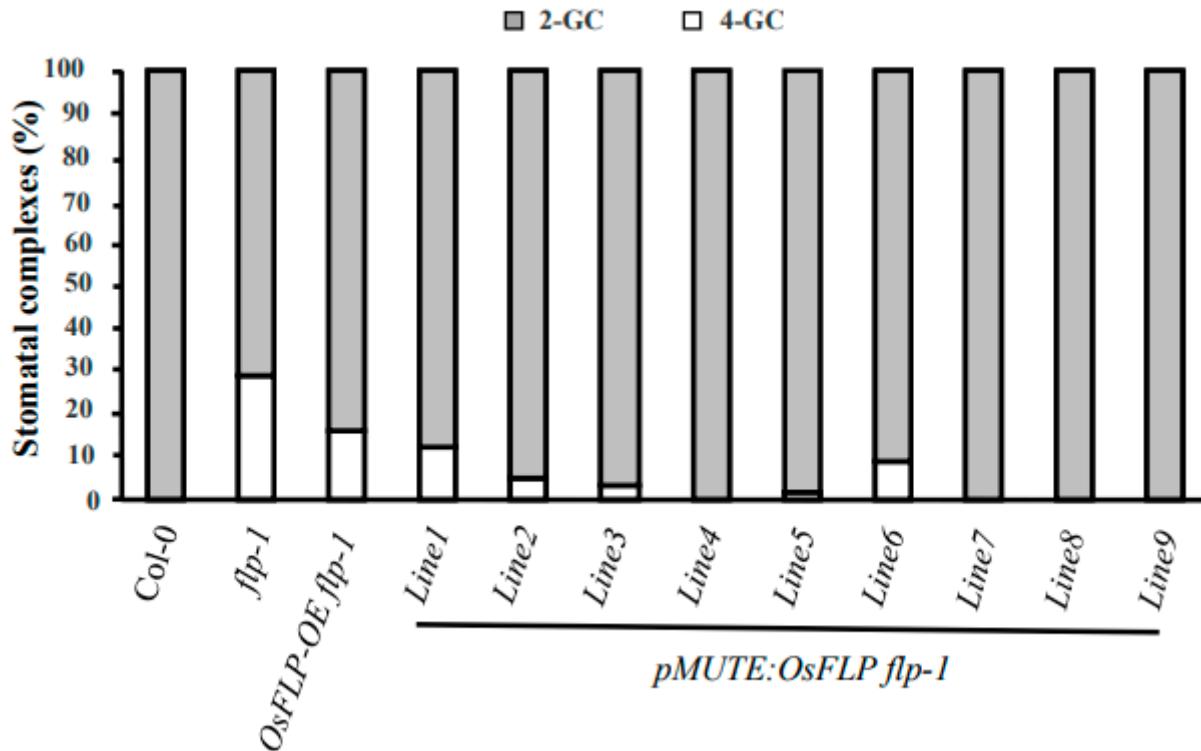
A

Figure S4. Ectopic expression of OsFLP rescue the stomatal cluster of *flp-1* mutant. (A) Quantification of effects of 35S:OsFLP and pMUTE:OsFLP on *flp-1* stomatal phenotypes. Stomata from 10-20 cotyledons were scored for normal and cluster stomatal phenotypes. Grey, normal 2-GC; White, cluster stomata with 4 GCs.

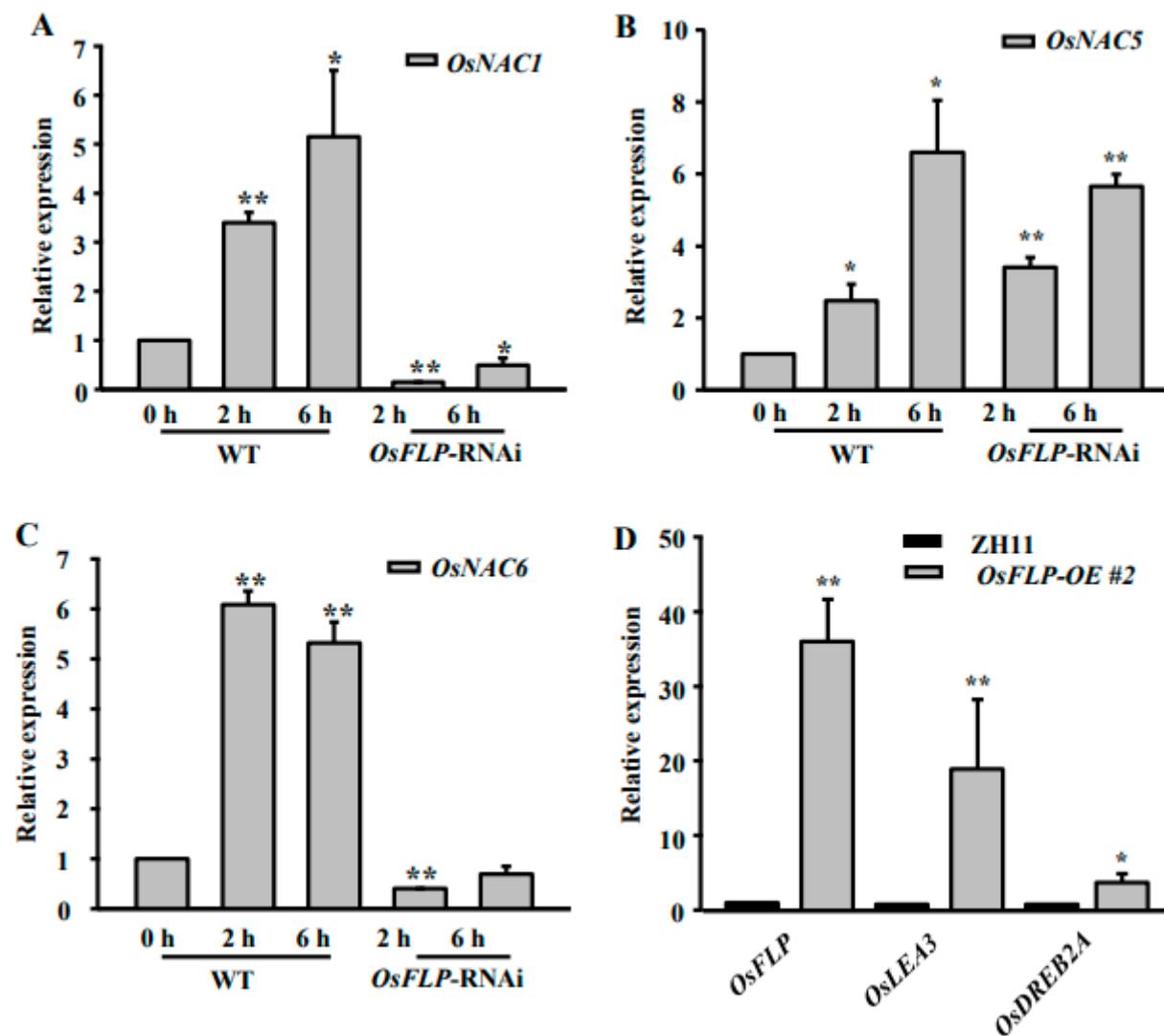


Figure S5. Expression levels of NAC genes were reduced in *OsFLP-RNAi* transgenic rice plants. The relative expression levels of *OsNAC1* (A), *OsNAC5* (B), *OsNAC6* (C), and stress response genes *OsLEA3* and *OsDREB2A* (D) were assessed using qRT-PCR. Error bars represent SD of three biological replicates (Student's t-test, ** $P < 0.01$, * $P < 0.05$).