

Table S1. Oligonucleotide primers used in this study

Gene name	Primer name	Used for	Orientation	Sequence (5'-3')
<i>OsACBP4</i> promoter	ML2465	PCR	Forward	<u>CAGTCGACCCGTCGATCCTAGTAAGTAC</u> (<i>Sall</i>)
	ML2823	PCR	Reverse	<u>CCCAAGCTTGGCCGACGCCGACGCCGA</u> (<i>HindIII</i>)
<i>OsACBP4</i> CDS	ML2824	PCR	Forward	<u>CCCAAGCTTATGGGCGGCGACTGGCAG</u> (<i>HindIII</i>)
<i>GFP</i>	ML2825	PCR	Reverse	<u>GGGTGACCTTACTTGTACAGCTCGTCCATGCC</u> (<i>BstEII</i>)
<i>OsACBP5</i> promoter	ML2470	PCR	Forward	<u>TAGGGATCCTGACTTCCTCACGCTCTGCT</u> (<i>BamHI</i>)
	ML2473	PCR	Reverse	<u>TAGAAGCTTGCTGCACTCCTCTCTCTCTC</u> (<i>HindIII</i>)
<i>OsACBP5</i> CDS	ML2982	PCR	Forward	<u>GGATCCATGGAGCTGTTCTACGAGCTG</u> (<i>BamHI</i>)
	ML2983	PCR	Reverse	<u>TCTAGATTCAGCAGGGATGTCAGAACTC</u> (<i>XbaI</i>)
<i>DsRED</i>	ML2984	PCR	Forward	<u>TCTAGAATGGCCTCCTCCGAGAAC</u> (<i>XbaI</i>)
	ML2985	PCR	Reverse	<u>GAGCTCTACAGGAACAGGTGGTGGC</u> (<i>SacI</i>)
<i>OsACBP4</i> CDS	ML1060	PCR	Forward	TGGATCCAAGGAGGACAACCTCCGAA
<i>OsACBP5</i> CDS	ML1111	PCR	Forward	GAGGCTATTCCAGGATGGAT
<i>OsACBP4</i>	ML1109	qRT-PCR	Forward	GCATCTGGCTGCTGGTGTAG
	ML1110	qRT-PCR	Reverse	GCATTTGCATTGACAAGAATCT
<i>OsACBP5</i>	ML1111	qRT-PCR	Forward	GAGGCTATTCCAGGATGGAT
	ML1112	qRT-PCR	Reverse	CTGTCATGTTGGTTGATTGTAT
ACTIN	ML1115	qRT-PCR	Reverse	AGGCCGTCTCTCTCTGTAT
	ML1116	qRT-PCR	Forward	GGGGAGAGCATATCCTTCAT

Restriction sites are underlined. CDS, coding sequence.

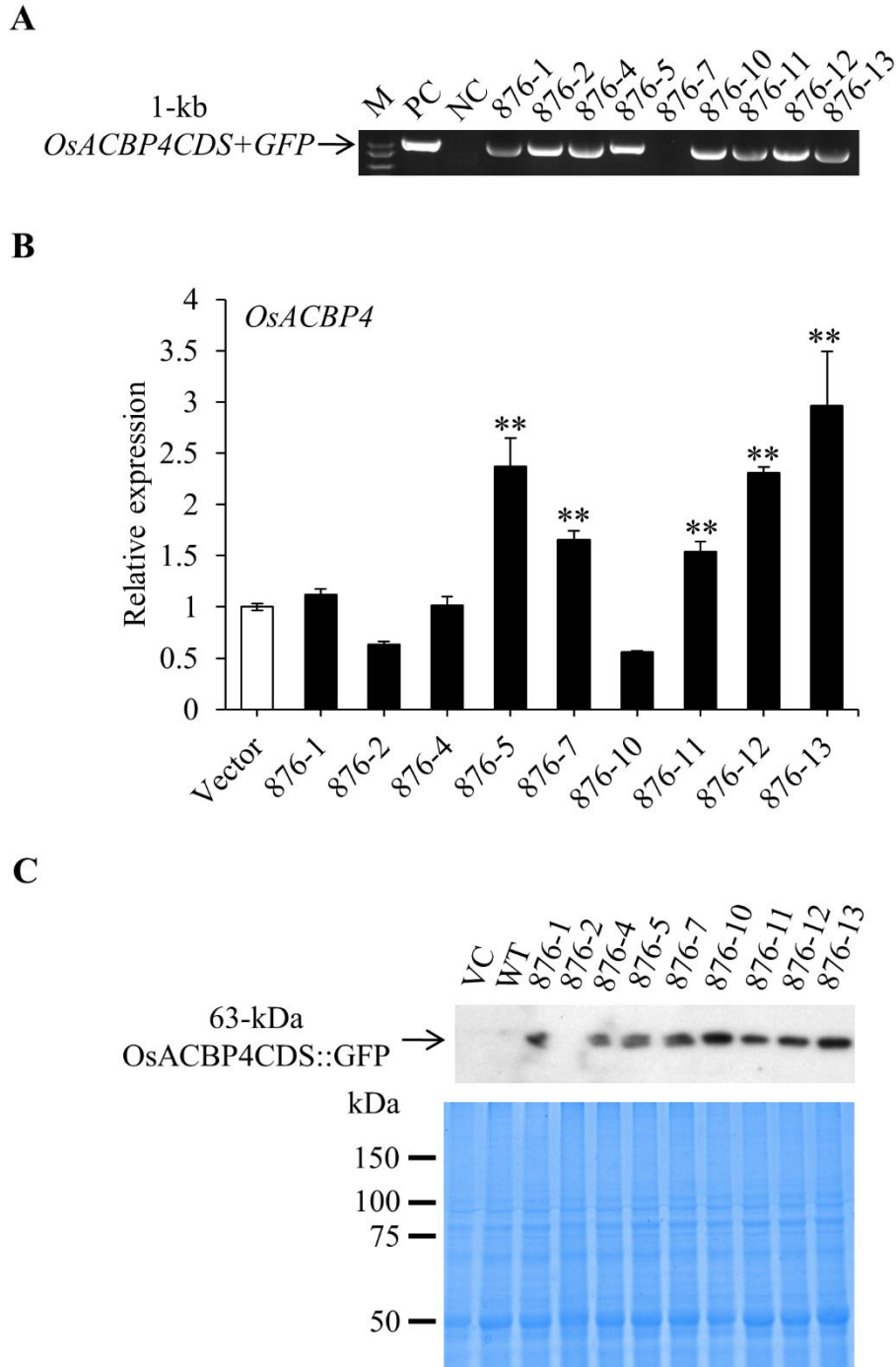


Figure S1. Characterization of representative transgenic rice expressing *OsACBP4::GFP* driven by the *OsACBP4* promoter. (A) PCR analysis on representative transgenic rice plants using *OsACBP4*-specific forward primer and *GFP*-specific reverse primer (ML1109 and ML2825). The PCR band of 1-kb *OsACBP4::GFP* is indicated. Putative transgenic *OsACBP4::GFP* rice plants are designated as 876 lines. CDS, coding sequence; M, 1 kb plus

marker; PC, positive control; NC, negative control. (B) Quantitative RT-PCR analysis on representative 21-day-old transgenic rice plants using *OsACBP4*-specific primers (ML1109 and ML1110) and rice *ACTIN* (*OsACTIN*)-specific primers (ML1115 and ML1116). Data are means \pm SD of three independent replicates. Asterisks indicate a significant difference between the treatments and controls (**, $P < 0.01$ by Student's *t*-test). (C) Western blot analysis to verify the expression of OsACBP4 in representative 7-day-old rice leaves using antibodies against GFP. The cross-reacting OsACBP4::GFP band (63-kDa) is indicated by an arrow. Bottom, Coomassie Blue-stained gel of total protein (20 μ g per well). VC, vector control; WT, wild type.

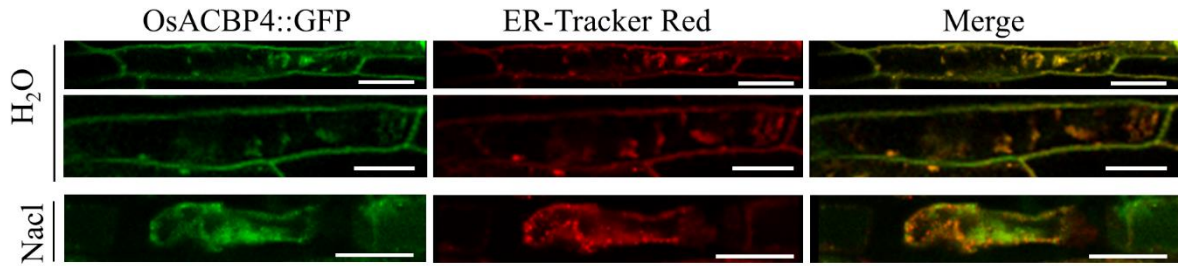


Figure S2. Subcellular localization of OsACBP4::GFP in transgenic rice after salt treatment. Root cells of 4-day-old transgenic rice seedlings were imaged by confocal laser scanning microscopy. Colocalization of OsACBP4::GFP (green) with ER-Tracker Red (red) (E34250, Invitrogen) in root cells of 4-day-old transgenic rice seedlings. Bars =20 μ m. Representative images were shown after observation with consistent results from at least 20 cells.

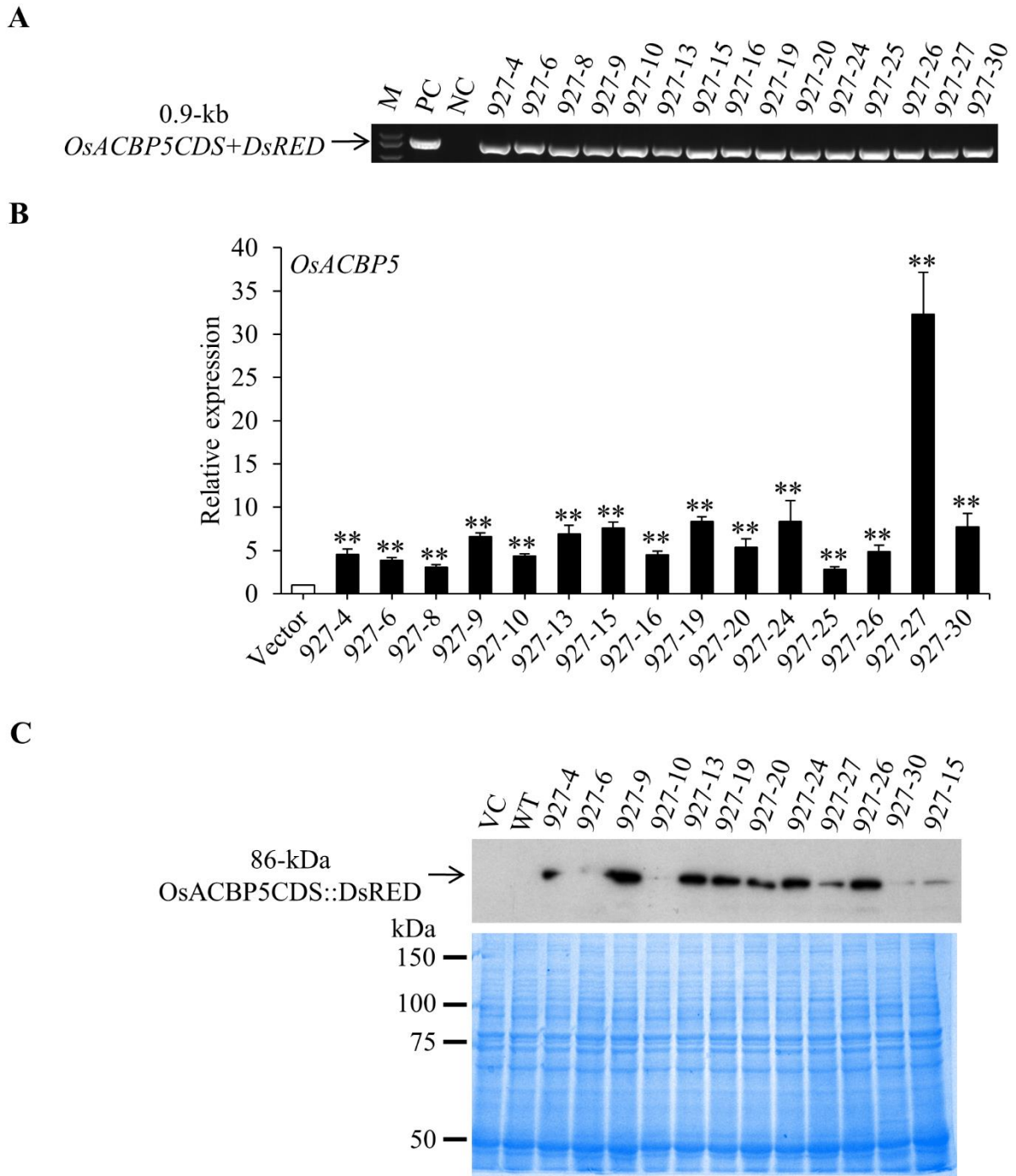


Figure S3. Characterization of representative transgenic rice expressing *OsACBP5::DsRED* driven by the *OsACBP5* promoter. (A) PCR analysis on representative transgenic rice plants using *OsACBP5*-specific forward primer and *DsRED*-specific reverse primer (ML1111 and ML2985). The PCR band of 0.9-kb *OsACBP5::DsRED* is indicated. Putative transgenic *OsACBP5::DsRED* rice plants are designated as 927 lines. CDS, coding sequence; M, 1 kb plus marker; PC, positive control; NC, negative control. (B) Quantitative RT-PCR analysis on

representative 21-day-old transgenic rice plants using *OsACBP5*-specific primers (ML1111 and ML1112) and rice *ACTIN* (*OsACTIN*)-specific primers (ML1115 and ML1116). Data are means \pm SD of three independent replicates. Asterisks indicate a significant difference between the treatments and controls (**, $P < 0.01$ by Student's *t*-test). (C) Western blot analysis to verify the expression of OsACBP5 in representative 7-day-old rice leaves using antibodies against RFP. The cross-reacting OsACBP5::DsRED band (86-kDa) is indicated by an arrow. Bottom, Coomassie Blue-stained gel of total protein (20 μ g per well). VC, vector control; WT, wild type.