

Supplemental Data

Table S1. Salt stress regulated rice root apoplastic proteins

Spot No*.	Accession No.	Protein name	Theoretical	Experimental	Queries Matched	Sequence Coverage (%)	Mascot Score	Predicted location**
			pI/MW	pI/ MW				
1	gi 19387274	OsRMC	5.01/27916	4.59/43132	16	62%	192	s
2	gi 34393251	peroxidase precursor	5.77/33311	5.86/33990	12	52%	86	s
3	gi 2429292	Peroxidase 2 precursor	5.51/33042	6.02/32949	13	50%	97	s
4	gi 4884530	peroxidase precursor	5.77/33311	5.81/32420	14	44%	101	s
5	gi 4884530	beta-1,3-glucanase	7.01/35699	6.98/31781	16	60%	158	s
6	gi 19387274	OsRMC	5.01/27916	5.01/25859	9	43%	76	s
7	gi 5931625	rab5B	6.84/21748	6.65/191760	6	36%	65	-
8	gi 33440014	Prb1 (putative pathogenesis-related protein)	4.32/17452	4.32/15432	6	64%	75	s
9	gi 34394950	putative beta-1,3-glucanase	4.98/59363	4.98/16024	11	22%	71	s
10	gi 3915131	Thioredoxin H-type (TRX-H)	5.16/13319	5.4/15023	9	55%	79	-

* Spot numbers from the analyses shown in Figure 2

**Location of identified proteins was predicted by TargetP

(<http://www.cbs.dtu.dk/services/TargetP>). S: contained signal peptide in secretory pathway. -: any other location

Table S2. Primers sequences used in gene construction and Q-PCR

Purpose	Sequence
<i>35S::OsRMC-YFP</i>	5' <u>CCATGG</u> CGCGGTGCACTTTG 3'
	5' <u>CCATGG</u> CCTCACGCAGCACCACCATC 3'
<i>OsRMCpro::GUS</i>	5' <u>AAGCTT</u> GACATGCTGCCTGTCCAGAT 3'
	5' <u>TCTAGAT</u> GCAATGGCAGTGATCGTTA 3'
RNAi	5' <u>GGGTACC</u> <u>ACTAGT</u> CACTTTGCTCGTTCTCCTCGT 3'
	5' <u>CGGGATCC</u> <u>GAGCTCT</u> GATGTTGGTGCTGCTCATGA 3'
<i>Ubi-1pro::OsRMC-GUS</i>	5' <u>CGGGATCC</u> ATGGCGCGGTGCACTTT 3'
	5' <u>CGGGATCCC</u> CCTCACGCAGCACCACCATC 3'
Q-PCR (<i>OsRMC</i>)	5' TCGGAGGTGTACCCGTTCTACA 3'
	5' ACTCTTAATTTGTGCCATTTTATTCTAGCT 3'
Q-PCR(<i>OsACTIN1</i>)	5' ACCATTGGTGCTGAGCGTTT 3'
	5' CGCAGCTTCCATTCT ATGAA 3'
Q-PCR (<i>OsDREB2A</i>)	5' AAAAGCGATGGCCCTGATTC 3'
	5' TTGGCTGGCGCTTTCCT 3'
Q-PCR (<i>Rab16A</i>)	5' CACACCACAGCAAGAGCTAAGTG 3'
	5' TGGTGCTCCATCCTGCTTAAG 3'
<i>Hygromycin B</i>	5' AAGTTCGACAGCGTCTCCGAC 3'
	5' TCTACACAGCCATCGGTCCAG 3'
OsRMC purification	5' <u>CGGGATCCC</u> GCGGTGCACTTTG 3'
	5' <u>CGGAATCCC</u> CCTCACGCAGCACCACCATC 3'

Figure S1 . MALDI-TOF mass fingerprint of OsRMC. **A**, The polypeptide that matched this peptide ion spectrum was identified as OsRMC. Signal peptide for extracellular secretion (bold italics) and the peptide coverage (underlined) are highlighted. **B**, MALDI-TOF ion spectrum generated from tryptic digest of spot 1 in Figure 2. The spectral peaks show the intensities for different peptides. The peaks of matched peptides in panel A were marked with arrows.

Figure S2 . LC-Mass/Mass result show spot 1 and spot 6 are identical protein. Mass spectrums of spot 1 (A) and spot 6 (B) obtained from a precursor ion with m/z value 753.30 (spot 1) and 753.64 (spot 6)

Figure S3 . Bioinformatic analysis for OsRMC. **A**, predicted signal peptide sites using the SignalP 3.0 prediction program (<http://www.cbs.dtu.dk/services/SignalP/>). **B**, predicted Potential transmembrane domain using the TMHMM2.0 program (www.cbs.dtu.dk/services/TMHMM2.0/). **C**, Structure of the OsRMC protein. The DUF26 domains and the putative N-terminal signal peptide are shown. **D**, Prediction of *cis*-acting elements distribution in the promoter region of OsRMC. ACGTG: ABRE; ACCGAGA: DRE; CCGAC: LTRE; TAACTG, AACGG: MYB recognition site; CANNTG: MYC recognition site.

Figure S1

A

1 MARCTLLVLL VAAAVAVVPL AAGQPWATCG DGTYEQGSAY ENLLNLALT
 51 LRDGASSQEI LFSTGSGNGAA PNTVYGLLLC RGDISRAACY DCGTSVWRDA
 101 GSACRRAKDV ALVYNECYAR LSDKDDFLAD KVGPGQLTTL MSSTNISSGA
 151 DVAAYDRAVT RLLAATAEYA AGDIARKLFA TGQRVGADPG FPNLYATAQC
 201 AFDITLEACR GCLEGLVARW WDTFPANVDG ARIAGPRCLL RSEVYPFYTG
 251 APMVVLR

B

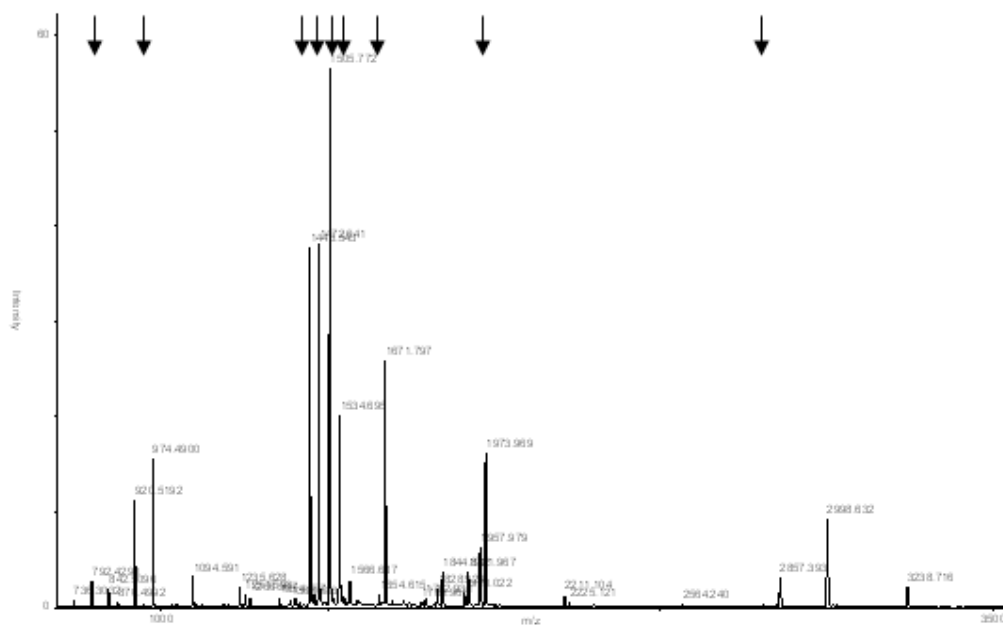
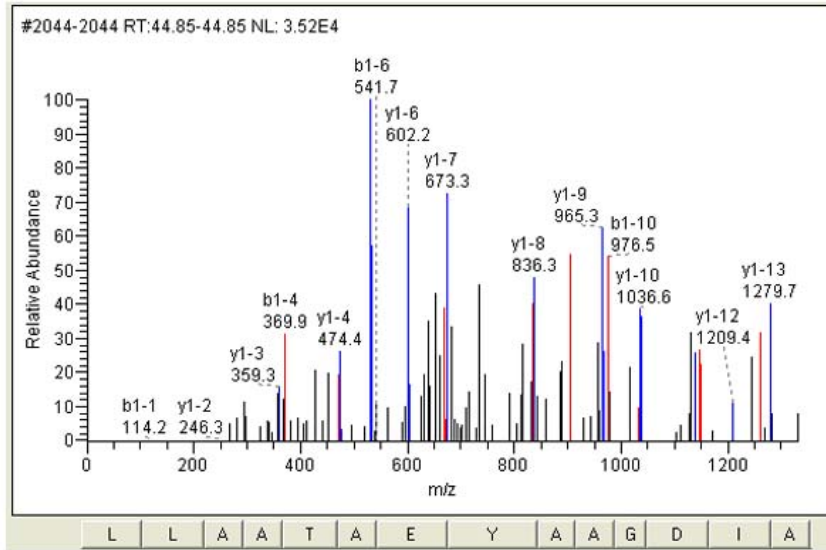


Figure S2

A



B

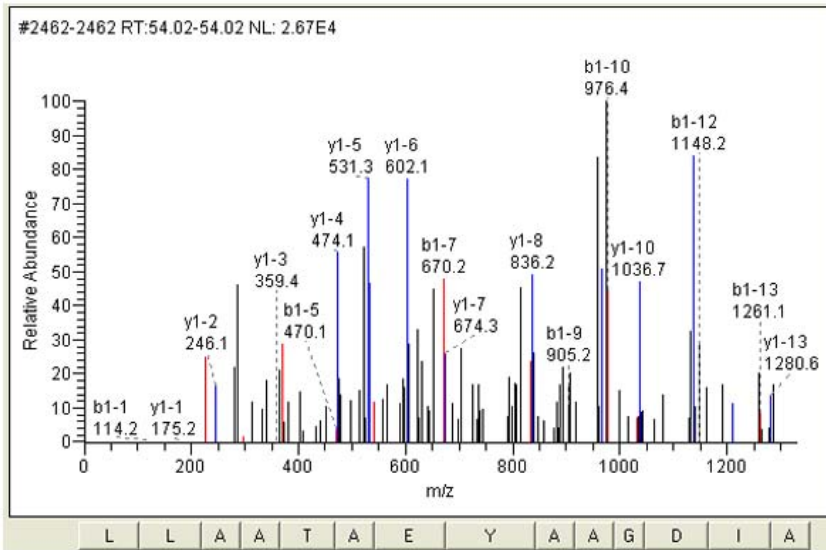


Figure S3

