

Accessory Publication

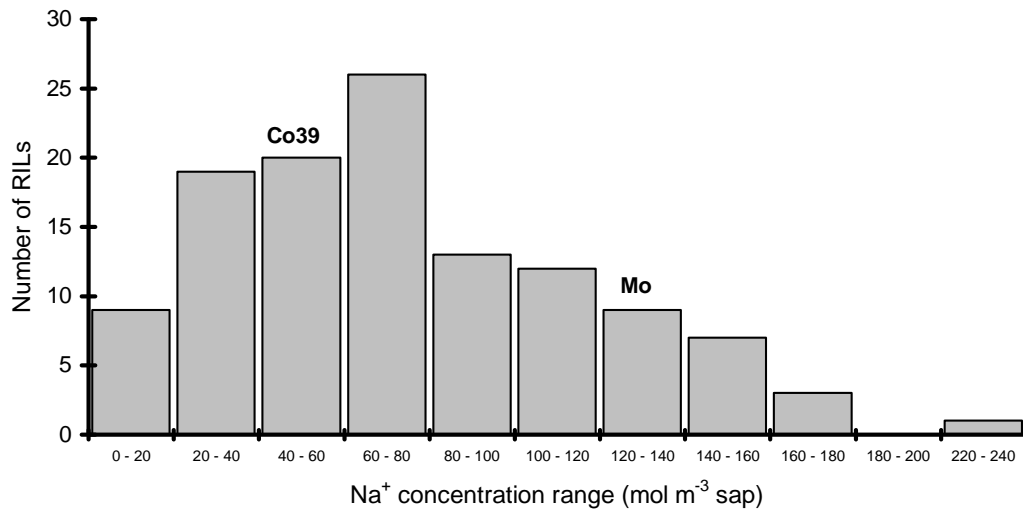


Fig. S1. Frequency distribution for Na⁺ in sap from expanded leaves of the RILs grown for 21 days at 100 mol m⁻³ NaCl + 5 mol m⁻³ CaCl₂ (Experiment 3). Co39 and Mo indicate mean values for parents.

Table S1. Reported salt-related loci on chromosome 1 of rice

Parameter	Name	Type	Marker(s)	cM	Physical	Genotypes	Reference
Shoot K ⁺ concentration	<i>qSKC1</i>	QTL	C1211–S2139	93–103	9.82→11.28	Nona Bokra × Koshihikari	Lin <i>et al.</i> 2004
Root Na ⁺ total	<i>QRNTQ-1</i>	QTL	C1370–C86	178–208	<38.04		Lin <i>et al.</i> 2004
Survival days	<i>QSDS-1</i>	QTL	C813–S13312	192–215	>34.28		Lin <i>et al.</i> 2004
Shoot K ⁺ concentration	<i>SKC1</i>	Gene	K036–Pr in PAC clone AP003567		11.42–11.48	Koshihikari × (Nona Bokra × Koshihikari NIL(<i>SKC1</i>)) BC ₂ F ₃	Ren <i>et al.</i> 2005
Salt-induced gene	SalT	EST	SalT/AK062520		>14.61	BS125 x WL02 (<i>O. longistaminata</i>) backcross	Causse <i>et al.</i> 1994 Claes <i>et al.</i> 1990
High K ⁺ , low Na ⁺	<i>Saltol</i>	Gene	Os01g20160		11.46	IR29 and RIL FL478 of	Walia <i>et al.</i> 2005
Salt-induced gene	<i>Salt</i>	Gene	Os01g25280/ AK062520		13.88	Pokkali × IR29	
Shoot Na ⁺ and K ⁺	<i>Saltol</i>	QTL	<i>Saltol</i> (between C52903S and C1733S)	64	12.54–13.82	Pokkali × IR29 F ₈ RILs, integrated RFLP and SSLP (SSR) maps	Bonilla <i>et al.</i> 2002
Shoot Na ⁺ and K ⁺		QTL	RM140–C1733S	52–86.2	12.28–13.82		
Shoot K ⁺ concentration		QTL	E12M46-6–E12M48-6	44–82	>4.63–24.3 ^A	IR55178 (IR4630 × IR5324) <i>indica</i> F ₆ RIL	Koyama <i>et al.</i> 2001
Total shoot Na ⁺		QTL	E12M46-7–R886	47–96	>4.63–26.52 ^A		
Shoot Na ⁺ :K ⁺ ratio		QTL	E12M46-7–R886	52–95			
Survival days in salt	Std	QTL	RG612–C131			Zhaiyeqing8 × Jingxi17 doubled haploids (ZJDH)	Gong <i>et al.</i> 1999
K ⁺ :Na ⁺ ratio	<i>Saltol</i>	QTL	RM3412–RM140	65–66	12.00–12.27	Pokkali × IR29 NILs	Niones 2004 cited by Mohammadi-Nejad <i>et al.</i> 2008
K ⁺ :Na ⁺ ratio	<i>Saltol</i>	QTL	RM8094–CP6224			Pokkali × IR29 BC ₃ F ₄ NILs	
Visual score	<i>qST1</i>	QTL	Est1-2-RZ569A		30–40	Milyang 23 × Gihobyeo	Lee <i>et al.</i> 2007

^ABased on anchoring markers RM1, RM5, R886.

Table S2. Experimental conditions used for detecting salt-related loci on chromosome 1 of rice
 All published references used Yoshida's medium with no added Ca²⁺ (except Walia *et al.* (2005)) and no added SiO₂

QTL/gene	Conditions	Age	Salinity	Temperature (°C)	pH	Stress duration	Reference
<i>qSKC1</i> <i>QRNTQ-1</i> <i>QSDS-1</i>	Hydroponics	8 days	140 mM NaCl shock	26	5.8	10 days	Lin <i>et al.</i> 2004
<i>SKC1</i>	Hydroponics		140 mM NaCl			8 days	Ren <i>et al.</i> 2005
<i>Salt</i>	Hydroponics		1 % NaCl (171 mM) or KCl (134 mM)			7 days	Causse <i>et al.</i> 1994 Claes <i>et al.</i> 1990
<i>Saltol</i> <i>Salt</i>	Sand flooded	22 days	7.4 dS m ⁻¹ 5:1 Na:Ca ratio gradual increments	32 to 45/19 to 22	5.0–6.5	7 days	Walia <i>et al.</i> 2005
<i>Saltol</i>	Hydroponics	Seedlings	12 dS m ⁻¹ NaCl	29/21		16 days	Bonilla <i>et al.</i> 2002
(See text)	Flood bench Sand	14 days	to 50 mM gradual 50 mM	28/25		7 days 75 mM	Flowers <i>et al.</i> 2000
(See text)	Hydroponics	10 days	to 50 mM gradual 50 mM 100 mM	28/25		1 day 12 days 8 days	Koyama <i>et al.</i> 2001
<i>Std</i> (survival time days)	Hydroponics	17 days	0.7% NaCl (120 mM)	26/22	5.5–6.0	Up to 17 days	Gong <i>et al.</i> 1999
<i>qST1</i>	Hydroponics	8 days	0.3% NaCl 0.7% NaCl (120 mM)	30/20	5.0	4 days 14 days	Lee <i>et al.</i> 2007
(See text)	Soil Flood bench	2–3 leaf 24 days	0.5% 100 mM NaCl + 10 mM CaCl ₂ 150 mM NaCl + 15 mM CaCl ₂	30/25 28/24	5.0	14 days 14 days 35 days	Lee <i>et al.</i> 2007 This paper