Addition File 1

Table S1. List of Salt Stress Supportive genes described in this paper

Gene name	Salt Stress Response	Source	Role in stress response	Reference
Osmotic Stress				
Salt stress related gene in ABA dependent pathway				
OsPSY3/ OsNCED3/ OsNCED4/ OsNCED5	Up-regulated	*Oryza sativa*	Regulate salt stress tolerance through ABA biosynthesis	Welsch et al. 2008
OsABF2	Down-regulated	*Oryza sativa*	Gene expressed modulation through an ABA-dependent pathway	Hossain et al. 2010
OsABI5	Up-regulated	*Oryza sativa*	Transgenic rice plants overexpressing *OsABI5* showed high sensitivity to salt stress	Zou et al. 2008
OsbZIP23	Up-regulated	*Oryza sativa*	Regulation of expression of genes involved in stress response and tolerance	Xiang et al. 2008
SAPK1/ SAPK2	Up-regulated	*Oryza sativa*	Regulation of expression of genes involved in stress response and tolerance	Kobayashi et al. 2004
OSRK1	Up-regulated	*Oryza sativa*	Regulation of expression of genes involved in stress response and tolerance	Kobayashi et al. 2004
SAPK4	Up-regulated	*Oryza sativa*	Maintain Na^+ and Cl^- homeostasis by reducing the *NHX* and *CLC1* expression	Diedhiou et al. 2008, Nakamura et al. 2006
OsMYB3R-2	Up-regulated	*Oryza sativa*	Regulation of stress responsive gene expression	Dai et al. 2007
OsMYB2	5hr (Up-regulated) 24hr (Down-regulated)	*Oryza sativa*	Overexpression of *OsMYB2* in rice seedlings functions as positive regulator to salt, cold, and dehydration stress tolerance.	Yang et al. 2012
OsLEA3/OsRab16A/OsDREB2A	Up-regulated	*Oryza sativa*	*OsMYB2* downstream genes	Yang et al. 2012
OsNAC6	Up-regulated	*Oryza sativa*	Regulation of stress responsive gene expression	Nakashima et al.2007
OsNAC5	Up-regulated	*Oryza sativa*	Regulation of OsLEA3 expression	Takasaki et al. 2010, Song et al. 2011
SNAC1	Up-regulated	*Oryza sativa*	Play important role in enhancing salt stress tolerance	Hu et al. 2006
ZFP252	Up-regulated	*Oryza sativa*	Accumulation of sugars and proline	Xu et al. 2008
OSISAP1	Up-regulated	*Oryza sativa*	Play important role in enhancing salt stress tolerance	Mukhopadhyay

				et al. 2004
DST	Down-regulated	*Oryza sativa*	Regulation H_2O_2-induced stomatal closure and negatively regulation	Huang et al. 2009
ZFP179	Up-regulated	*Oryza sativa*	Accumulation of sugars and proline	Sun et al. 2010
OsTZF1	Up-regulated	*Oryza sativa*	Play important role in enhancing salt and drought stress tolerance	Jan et al. 2013
OsCPK21	Up-regulated	*Oryza sativa*	Positive regulate the signaling pathways that are involved in the response to ABA and salt stress tolerance	Asano et al. 2011
OsNAC6/Rab21 /OsLEA3	Up-regulated	*Oryza sativa*	*OsCPK21* downstream genes	Asano et al. 2011, Duan et al. 2012
OsDCPK7	Up-regulated	*Oryza sativa*	Play important role in enhancing salt stress tolerance	Saijo et al. 2000
Rab16a /SalT /wsi18	Up-regulated	*Oryza sativa*	*OsCDPK7* downstream genes	Saijo et al. 2000
OsSIK1.	Up-regulated	*Oryza sativa*	*Play important role in enhancing salt stress tolerance*	Ouyang et al. 2010
OsDSM1	Up-regulated	*Oryza sativa*	Early signaling component in regulating responses to osmotic stress by regulating scavenging of ROS	Ning et al. 2010
OsEDR1	Up-regulated	*Oryza sativa*	An essential positive regulator of tolerance to salt stress.	Kim et al 2003
OsMAPK4/ OsMAPK5	Up-regulated	*Oryza sativa*	Positively regulate salt stress tolerance,	Fu et al. 2002, Xiong et al. 2003
OsMAPK33/ OsMAPK44	Up-regulated	*Oryza sativa*	Play important role in salt stress tolerance through unfavorable ion homeostasis	Lee et al. 2011, Jeong et al. 2006
OsMSRMK2/ OsMSRMK3	Up-regulated	*Oryza sativa*	Play role in salt stress signaling pathway in rice.	Agrawal et al. 2002, 2003
OsmiR396c/ OsmiR393	Up-regulated	*Oryza sativa*	Overexpression shows sensitive phenotype in salt stress	Gao et al. 2010, 2011
OsWRKY45-2	Up-regulated in after 4 day	*Oryza sativa*	Positively regulates ABA signaling and negatively regulates rice response to salt stress.	Tao et al. 2011
OsTIFY11a	Up-regulated	*Oryza sativa*	Regulation seed germination	Ye et al. 2009
OsDhn1	Up-regulated	Oryza sativa	Play important role in enhancing salt and drought stress tolerance	Not reported
OsERF922	Down-regulated	*Oryza sativa*	Negatively regulate the salt stress tolerance	Liu et al. 2012
OsSKIPa	Up-regulated	*Oryza sativa*	Positively regulate salt and drought stress tolerance	Hou et al. 2009
c-GS2	Up-regulated	*Oryza sativa*	Accumulation of glutamine leads to salt stress tolerance	Hoshida et al. 2000

otsA + otsB	Up-regulated	*Escherichia coli*	Positively regulate salt and drought stress tolerance through the accumulation of trehalose	Garg et al. 2002
hva1	Up-regulated	*Hordeum vulgare*	Accumulation of HVA1 leads to salt and drought stress tolerance	Xu et al. 1996
Salt stress related gene in ABA independent pathway				
OsDREB1A	Up-regulated	*Oryza sativa*	Regulation of stress-responsive gene expression and accumulation of proline.	Dubouzet et al. 2003
OsDREB1F	Up-regulated	*Oryza sativa*	ABA-responsive regulation of gene expression	Wang et al. 2008
OsDREB2A	Up-regulated	*Oryza sativa*	Regulation of salt stress tolerance	Mallikarjuna et al. 2011
OsCPK12	Not regulated at the transcriptional level in response to salt stress	*Oryza sativa*	An essential positive regulator of tolerance to salt stress.	Asano et al. 2012
OsrbohI / OsAPx2/ OsAPx8	Regulated by *OsCPK12*	*Oryza sativa*	Play important role in H_2O_2 homeostasis	Asano et al. 2012
codA	Up-regulated	*Arthrobacter globiformis*	Positively regulate salt and cold stress tolerance in rice	Sakamoto et al 1998
Mn-SOD	Up-regulated	*Saccharomyces cerevisiae*	Transgenic plants showed enhanced tolerance to salt	Tanaka et al. 1999
katE	Up-regulated	*Escherichia coli*	It decompose H_2O_2 and increase salt stress tolerance	Motohashi et al. 2010
OsGSK1	Down-regulated	*Oryza sativa*	Negatively regulate the salt stress tolerance.	Koh et al. 2007
OsNADP-ME2	Up-regulated	Oryza sativa	Play important role in enhancing tolerance of plants to salt and osmotic stress	Liu et al. 2007
Genes involved in ionic stress response pathway				
OsSOS1/ OsCIPK24 / OsCBL4	Up-regulated	*Oryza sativa*	Important in Calcium signaling	Atienza et al. 2007
OsAKT1	Up-regulated	*Oryza sativa*	Play important role in enhancing salt stress tolerance	Golldack et al. 2003
OsCLC1	Up-regulated	*Oryza sativa*	Act as proton-chloride antiporters	Nakamura et al. 2006