

		1	50
Ni-HKT1;4	(1)	MPTSRRALAGGALSMHVAYFLAISCLGYGLLGVLKVREPGAAPRRIDRFF	
Po-HKT1;4	(1)	MPTSRRALAGGALSMHVAYFLAISCLGYGLLGVLKVREPGAAPRRIDRFF	
Ni-HKT1;4 truncated	(1)	MPTSRRALAGGALSMHVAYFLAISCLGYGLLGVLKVREPGAAPRRIDRFF	
		51	100
Ni-HKT1;4	(51)	TAVSAATVSSMSTVEMEVFSNGQLVVLTVLMLLGGEVFVSLVGLASKWSK	
Po-HKT1;4	(51)	TAVSAATVSSMSTVEMEVFSNGQLVVLTVLMLLGGEVFVSLVGLASKWSK	
Ni-HKT1;4 truncated	(51)	TAVSAATVSSMSTVEMEVFSNGQLVVLTVLMLLGGEVFVSLVGLASKWSK	
		101	150
Ni-HKT1;4	(101)	LRS DAMDRS RVE SHGDVALADIDGGDVENPTSSGEEAASRRRPMADTL	
Po-HKT1;4	(101)	LRS DAMDRS QPVE SHGDVALADIDGGDVENPTSSGEEAASRRRPMADTL	
Ni-HKT1;4 truncated	(101)	LRS DAMDRS RVE SHGDVALADIDGGDVENPTSSGEEAASRRRPMADTL	
		151	200
Ni-HKT1;4	(151)	RHNA VRALFYIVLA IFIAV VHVVGAVAVAAYV LASPGARR TLGDKS LNTWT	
Po-HKT1;4	(151)	RHNA VRALFYIVLA IFIAV VHVVGAVAVAAYV LASPGARR TLGDKS LNTWT	
Ni-HKT1;4 truncated	(151)	RHNA VRALFYIVLA IFIAV VHVVGAVAVAAYV LASPGARR TLGDKS LNTWT	
		201	250
Ni-HKT1;4	(201)	FAVFTTVSTFSNCGFMP TNENMV VFKRDAPLQLLLVPQVLAGN TLFAPLL	
Po-HKT1;4	(201)	FAVFTTVSTFSNCGFMP TNENMV VFKRDAPLQLLLVPQVLAGN TLFAPLL	
Ni-HKT1;4 truncated	(201)	FAVFTTVSTFSNCGFMP TNENMV VFKRDAPLQLLLVPQVLAGN TLFAPLL	
		251	300
Ni-HKT1;4	(251)	AACV WAAAATRREE L VEMAREGGRAAAAGYAH LMPARR CWM LAATVAAF	
Po-HKT1;4	(251)	AACV WAAAATRREE L VEMAREGGRAAAAGYAH LMPARR CWM LAATVAAF	
Ni-HKT1;4 truncated	(251)	AACV WAAAATRREE L VEMAREGGRAAAAGYAH LMPARR CWM LAATVAAF	
		301	350
Ni-HKT1;4	(301)	VAV IMLV CGMEWGGALQGMSPWEKVV NALFLAVNARHT GEST VDLSILA	
Po-HKT1;4	(301)	VAV IMLV CGMEWGGALQGMSPWEKVV NALFLAVNARHT GEST VDLSILA	
Ni-HKT1;4 truncated	(301)	VAV IMLV CGMEWGGALQGMSPWEKVV NALFLAVNARHT GEST VDLSILA	
		351	400
Ni-HKT1;4	(351)	PAILVL FVLM MYLPP YTTW FPFEEN STTKDSNAE NQGIRL LEST LLSQLS	
Po-HKT1;4	(351)	PAILVL FVLM MYLPP YTTW FPFEEN STTKDSNAE NQGIRL LEST LLSQLS	
Ni-HKT1;4 truncated	(351)	PAILVL FVLM MYLPP YTTW FPFEEN STTKDSNAE NQGIRL LEST LLSQLS	
		401	450
Ni-HKT1;4	(401)	YLT I FVIAICITERRKL KEDPLNF SVLSIV VEVV SAYGNVGF S MGYCSR	
Po-HKT1;4	(401)	YLT I FVIAICITERRKL KEDPLNF SVLSIV VEVV SAYGNVGF S MGYCSR	
Ni-HKT1;4 truncated	(401)	YLT I FVIAICITERRKL KEDPLNF SVLSIV VEVV RQVR LNGFLPEKKNAD	
		451	500
Ni-HKT1;4	(451)	QINPDHLCTDKWTGFVGRWSDSGKL LILI FVMMFFGRLKKFSMKGKAWKLS	
Po-HKT1;4	(451)	QINPDHLCTDKWTGFVGRWSDSGKL LILI FVMMFFGRLKKFSMKGKAWKLS	
Ni-HKT1;4 truncated	(451)	QVN-----	

Figure S6. OsHKT1;4 protein sequence comparison. The Pokkali (Po) OsHKT1;4 transcript encoding a functional protein was fully sequenced and its nucleotide sequence translated into an amino acid sequence. Po-OsHKT1;4 encodes for a 500 amino acid protein which share 99.8% homology with the OsHKT1;4 protein from Nipponbare (Ni). The sole difference between the two functional OsHKT1;4 proteins is a R to Q substitution in position 110 in Pokkali. The structural modeling of the OsHKT1;4 protein predicts that this substitution is localized in the cytoplasm-exposed loop inter-connecting membrane α -helices between the first two domains of the protein and thus does not affect Na^+ transport rate. Ni-OsHKT1;4 and Po-OshKT1;4 were aligned against a predicted truncated protein generated by the splice variants. This predicted splice variant protein is 47 amino acid residues shorter and differs from the full-length OsHKT1;4 protein in its 19 C-terminal residues. The protein sequences were aligned using Align X (Invitrogen). Homologous regions are highlighted in yellow or blue. The conserved Val residue in position 344 is highlighted in green.