

		1401		1450
FL478	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
IR29	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
Ka	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
KV	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
NB	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
Ni	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
NSI	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
Po	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
SAL	(1)	-----	ATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
Ni-HKT1;4 Ex1	(846)		GCACCTGATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	
Ni-HKT1;4 gDNA	(1401)		GCACCTGATGCCGGCGCGCGGTGCTGGATGCTGGCGGCACGGTGGCGG	

		1451		1500
FL478	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
IR29	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
Ka	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
KV	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
NB	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
Ni	(42)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
NSI	(44)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
Po	(44)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
SAL	(44)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
Ni-HKT1;4 Ex1	(896)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	
Ni-HKT1;4 gDNA	(1451)		CGTTCGTCGCCGTGCTGATGGCGCTGGTGTGCGGCATGGAGTGGGGCGGG	

		1501		1550
FL478	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
IR29	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
Ka	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
KV	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
NB	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
Ni	(92)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
NSI	(94)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
Po	(94)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
SAL	(94)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
Ni-HKT1;4 Ex1	(946)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	
Ni-HKT1;4 gDNA	(1501)		GCGCTGCAGGGGATGAGCCCGTGGGAGAAGGTGGTGAACGCGCTGTTCCCT	

		1551		1600
FL478	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
IR29	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
Ka	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
KV	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
NB	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
Ni	(142)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
NSI	(144)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
Po	(144)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
SAL	(144)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
Ni-HKT1;4 Ex1	(996)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC
Ni-HKT1;4 gDNA	(1551)		CGCCGTGAACGCCCGGCACACCGGCGAGTCCACC	GTCGACCTCTCCATCC

		1601		1650
FL478	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
IR29	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
Ka	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
KV	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
NB	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
Ni	(192)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
NSI	(194)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
Po	(194)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
SAL	(194)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT
Ni-HKT1;4 Ex1	(1046)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	-----
Ni-HKT1;4 gDNA	(1601)		TCGCGCCGGCCATCCTCGTGCTCTTCGTCTCATGAT	GTGAGTGTCTCT

		1651		1700
FL478	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
IR29	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
Ka	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
KV	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
NB	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
Ni	(242)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
NSI	(244)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
Po	(244)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
SAL	(244)	GTTTCTCTCTGACCTAAGCTCTCTCAGG		-----
Ni-HKT1;4 Ex1	(1084)	-----		-----
Ni-HKT1;4 gDNA	(1651)	GTTTCTCTCTGACCTAAGCTCTCTCAGG	GTCTCAGCTCTTCAACCTAG	

		4301		4350
FL478	(1)	-----	STATCTACCTCCGTAC	
IR29	(1)	-----	STATCTACCTCCGTAC	
Ka	(1)	-----	STATCTACCTCCGTAC	
KV	(1)	-----	STATCTACCTCCGTAC	
NB	(1)	-----	STATCTACCTCCGTAC	
Ni	(1)	-----	STATCTACCTCCGTAC	
NSI	(1)	-----	STATCTACCTCCGTAC	
Po	(1)	-----	STATCTACCTCCGTAC	
SAL	(1)	-----	STATCTACCTCCGTAC	
Ni-HKT1;4 Ex2	(1)	-----	STATCTACCTCCGTAC	
Ni-HKT1;4 gDNA	(4301)	TGTTGTCATATTTCTGCTTCATCTGCGCTCCAG	STATCTACCTCCGTAC	

		4351		4400
FL478	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
IR29	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
Ka	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
KV	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
NB	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
Ni	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
NSI	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
Po	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
SAL	(6)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
Ni-HKT1;4 Ex2	(16)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		
Ni-HKT1;4 gDNA	(4351)	ACGACGTGGTTCCCATTTGAAGAGAATTCCTACTAAGGATAGTAATGC		

		4401		4450
FL478	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
IR29	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
Ka	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
KV	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
NB	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
Ni	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
NSI	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
Po	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
SAL	(56)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
Ni-HKT1;4 Ex2	(66)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		
Ni-HKT1;4 gDNA	(4401)	AGAGAACCAGGGAATCAGACTGCTCGAGAGTACACTTTTGTCCAACTCT		

		4451		4500
FL478	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
IR29	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
Ka	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
KV	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
NB	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
Ni	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
NSI	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
Po	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
SAL	(106)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
Ni-HKT1;4 Ex2	(116)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		
Ni-HKT1;4 gDNA	(4451)	CCTACCTGACCATCTTTGTTCATTGCCATCTGCATCACCGAGAGAAGAAAG		

		4501		4550
FL478	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
IR29	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
Ka	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
KV	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
NB	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
Ni	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
NSI	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
Po	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
SAL	(156)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
Ni-HKT1;4 Ex2	(166)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		
Ni-HKT1;4 gDNA	(4501)	CTCAAAGAAGACCCCTCAACTTCAGTGTGCTAAGCATTGTTGTGCGAAGT		

		4551		4600
FL478	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
IR29	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
Ka	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
KV	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
NB	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
Ni	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
NSI	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
Po	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
SAL	(206)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	
Ni-HKT1;4 Ex2	(216)	TGTCAG	-----CCTGAGAAAAAAAATGCAG	
Ni-HKT1;4 gDNA	(4551)	TGTCAG	GCAAGTCAGACTAAATGGTTTCTTATCTGAGAAAAAAAATGCAG	

		4601		4650
FL478	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
IR29	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
Ka	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
KV	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
NB	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
Ni	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
NSI	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
Po	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
SAL	(256)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		
Ni-HKT1;4 Ex2	(222)	-----		
Ni-HKT1;4 gDNA	(4601)	ACCAAGTAAATTAACAATTTATCTGATGAAAACAGCAAAACACAAAGTAA		

		4651		4700
FL478	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
IR29	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
Ka	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
KV	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
NB	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
Ni	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
NSI	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
Po	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
SAL	(306)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		
Ni-HKT1;4 Ex2	(222)	-----		
Ni-HKT1;4 gDNA	(4651)	CACTTGTCAGGTATTCTGAATCTTAATAATACACAATGAAAATAGTAAT		

		4701		4750
FL478	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
IR29	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
Ka	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
KV	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
NB	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
Ni	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
NSI	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
Po	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
SAL	(356)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		
Ni-HKT1;4 Ex3	(1)	-----TGCATATG		
Ni-HKT1;4 gDNA	(4701)	GTTTCTTTTCGTGGAATCTGACGGATCTGCCACATTTGCAGTGCATATG		

		4751	4800
FL478	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
IR29	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
Ka	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
KV	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
NB	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
Ni	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
NSI	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
Po	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
SAL	(406)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
Ni-HKT1;4 Ex3	(9)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
Ni-HKT1;4 gDNA	(4751)	GAAATGTGGGGTTCTCAATGGGCTACAGTTGCAGTAGACAGATCAATCCA	
		4801	4850
FL478	(456)	GACCATCTCTGC-----	
IR29	(456)	GACCATCTCTGC-----	
Ka	(456)	GACCATCTCTGC-----	
KV	(456)	GACCATCTCTGC-----	
NB	(456)	GACCATCTCTGC-----	
Ni	(456)	GACCATCTCTGC-----	
NSI	(456)	GACCATCTCTGC-----	
Po	(456)	GACCATCTCTGC-----	
SAL	(456)	GACCATCTCTGC-----	
Ni-HKT1;4 Ex3	(59)	GACCATCTCTGCACAGATAAATGGACTGGTTTCGTAGGGAGATGGAGCGA	
Ni-HKT1;4 gDNA	(4801)	GACCATCTCTGCACAGATAAATGGACTGGTTTCGTAGGGAGATGGAGCGA	

Figure S4. Sequence comparison of *OsHKT1;4* genomic DNA fragments across several rice lines.

Two regions of the *OsHKT1;4* gene were sequenced from genomic DNA in nine rice lines. The first region (~300 bp) covers the 3'-end of the first exon up until the 5'-end of the first intron and the second region (~500 bp) from the start of the second exon until the 5'-end of the third exon. The sequences obtained were aligned with the Ni-*OsHKT1;4* locus genomic sequence mined from public databases. No differences were observed in any of the lines analyzed besides a point mutation in the second intron of Nipponbare which may represent a *japonica* v. *indica* single nucleotide polymorphism. Sequence alignment was performed using Align X (Invitrogen). Homologous sequences are highlighted in yellow or blue. The conserved codon encoding a Val residue in position 344 of the *OsHKT1;4* protein is highlighted in green. The abbreviations Po = Pokkali; NB = Nona Bokra; Ni = Nipponbare; KV = Kallurundai Vellai; Ka = Kalurundai; NSI = NSICRC106; and SAL = SAL208 stand for individual varieties, whereas IR29 and FL478 are full names of rice varieties.