

**Table S2.** List of primers.

Description	Name	Sequence
<b>Genotyping <i>rupo</i>+/-</b>	12426F1	AGGTCCTTGCCGTAGATGTG
	12426R1	AGGTGGTGTACCGGATCAAC
	Ngus-RB	AACGCTGATCAATTCCACAG
<b>Genomic cloning</b>	NF4	TCACTATGTATAACTTAATGTTGCACCAACAGTCA AC
	NR4	CCCAACCCCTCCTCTCACAACCCAA
<b>Promoter</b>	LF1	TAGTTGGAATGGGTTCTGAATCACTATGTATAACTTA ATGTTGCACCAACA
	LR2	TTATGGAGTTGGGTTCTGAAGGTGGTGGGGTGGCC TACG
<b>RT-PCR</b>	RLIP1-LP2	GAGCCCGAGCTTCAACATG
	RLIP1-RP	TCTCGGTGTTGAACTCGTTG
<b>qPCR</b>	RLIP1-q1F	TCGCCATCGCCAATCCAAGACA
	RLIP1-q1R	TCGATCGTCGCGGTGGAACG
	18SF	CGGCTACCACATCCAAGGAA
	18SR	TGTCACTACCTCCCCGTGTCA
<b>CRISPR lines</b>	127CF2	CACTTCGTCCGCCTCTACCTCTTC
	127CR2	GTTGATCCGGTACACCACCT
<b>Complementation</b>	F(HindIII)	AAGCTTGCACCAACAGTCAACCGAAACAT
	R (EcoRI)	GAATTCATCCCTGGTTACTTGATTAGTCTGTG
	127RP	TCTCGGTGTTGAACTCGTTG
	RB	AACGCTGATCAATTCCACAG
	d127LP	CGGCGTACTACAAGGACATCGTCGT
	d127RP-1	TAGCGTTGTGATGGAGTGCATTCCAG
	d127RP-2	AGGTAAACCGCGTTGCTAAACCAGC
<b>pET-RUPO-N</b>	127NF1	TTAGAATTCCAGGGGCGGCCGGTCCACC
	127NR1	AACTCGAGGCGGCTGCCGCTGCCGTC
<b>Y2H related</b>		
<b>Library construction</b>	CDSIII	ATTCTAGAGGCCGAGGCGGCCGACATG-d(T)30VN
	SMARTIII	AAGCAGTGGTATCAACGCAGAGTGGCCATTATGG CCGGG
<b>BD 515-845</b>	127YF2	ACTGAATTCTTCGAGGAGAGCGCCATC
	127YR2	CACGGATCCTCACCTCCCCTTCATGTC
<b>BD453-845</b>	127YF3	ACTGAATTCTGGTACAAGCGGCCCCAG
	127YR2	CACGGATCCTCACCTCCCCTTCATGTC
<b>BD515-820</b>	127YF2	ACTGAATTCTTCGAGGAGAGCGCCATC
	127YR3	CACGGATCCTCAGCCGGAGCCGGAG
<b>BD453-820</b>	127YF3	ACTGAATTCTGGTACAAGCGGCCCCAG
	127YR3	CACGGATCCTCAGCCGGAGCCGGAG
<b>BD453-708</b>	127YF3	ACTGAATTCTGGTACAAGCGGCCCCAG
	127YR4	ATAGGATCCTCACTCGAGGAGCACGACG
<b>BD515-708</b>	127YF2	ACTGAATTCTTCGAGGAGAGCGCCATC

<b>BD453-788</b>	127YR4	ATAGGATCCTCACTCGAGGAGCACGACG
	127YF3	ACTGAATTCTGGTACAAGCGGCCCCAG
	127YR5	ATAGGATCCTCACGCGTACTCGAGGTTTC
<b>BD515-788</b>	127YF2	ACTGAATTCTTCGAGGAGAGCGCCATC
	127YR5	ATAGGATCCTCACGCGTACTCGAGGTTTC
<b>AD-OsHAK1-C</b>	Potass YF2	ATAGAATTCACGAGCTCGGCCGTGC
	Potass YR1	CGCGGATCCCTAGATTTTCATACGTGA
<b>AD-OsHAK19-C</b>	PTF4	ATAGAATTCGCCGCGTTCCCTCCTCGA
	PTR2	CGCGGATCCCTAAATCTCATAGGTGATC
<b>AD-OsHAK20-C</b>	PTF5	ATAGAATTCCTCAAGGTGTTTCGTCTAC
	PTR3	CGCGGATCCCTAAATCTCATAAGTGATC
<b>Kinase activity related</b>		
<b>MBP-RUPO515</b>	GSTKinaseF	TCTGGATCCTTCGAGGAGAGCGCCATC
	GSTKinaseR	TCTGAATTCCTCCCCTTCATGTCGGC
<b>MBP-RUPO</b>	MBPF1	TCTGGATCCCAG GGG CGG CCG GTC ACC
	HiskinaseR	TCTAAGCTTCCTCCCCTTCATGTCGGC
<b>Point mutation</b>	K543R For	CCAAGGTCGCCGTGAGGCGCGGGAAC
	K543R Rev	CTCACGGCGACCTTGGTGCCGTCGTGC
<b>Localization</b>		
<b>35S::RUPOΔC-GFP</b>	127DWF1	ATACTCGAGATGCGCCGCCGCGGGAG
	127DWR1	CCGACTAGTCCGAGGCCGAGGGTGGAG
<b>Ubi::RUPO-GFP</b>	127DWF2	ATAGGATCCATGCGCCGCCGCGGGAG
	127DWR2	ATAACTAGTGGCTGCAGCGGCCCTCCCCTTCAT GTCG
<b>Pull down related</b>		
<b>GST-RUPO-C</b>	GSTKinaseF	TCTGGATCCTTCGAGGAGAGCGCCATC
	HiskinaseR	TCTAAGCTTCCTCCCCTTCATGTCGGC
<b>MBP-OsHAK1-C</b>	MBPHAKF1	TATGGATCCACGAGCTCGGCCGTGC
	MBPHAKR1	GAGAAGCTTCTAGATTTTCATACGTGA
<b>MBP-OsHAK19-C</b>	MBPHAKF2	TATGGATCCGCCGCGTTCCCTCCTCGA
	MBPHAKR2	CGCAAGCTTCTAAATCTCATAGGTGATC
<b>MBP-OsHAK20-C</b>	MBPHAKF3	TATGGATCCCTCAAGGTGTTTCGTCTAC
	MBPHAKR3	GGCAAGCTTCTAAATCTCATAAGTGATC
<b>Co-IP related</b>		
<b>FLAG-RUPO-C</b>	IPF2	ATAACTAGTAGATTACAAGGATGACGACGATAAGT CGAGGAGAGCGCCATC
	IPR1	ATCGGATCCTCACCTCCCCTTCATGTC
<b>GFP-OsHAK1-C</b>	IPKTF1	GACTCTAGACACGAGCTCGGCCGTGC
	IPKTR1	CGCGGATCCCTAGATTTTCATACGTGA
<b>GFP-OsHAK19-C</b>	IPKTF2	GACTCTAGACGCCGCGTTCCCTCCTCGA
	IPKTR2	CGCGGATCCCTAAATCTCATAGGTGA
<b>GFP-OsHAK20-C</b>	IPKTF3	GACTCTAGACCTCAAGGTGTTTCGTCTAC
	IPKTR3	CGCGGATCCCTAAATCTCATAAGTGA

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