

TABLES

Table S1. Oligonucleotide sequences of primers used in this study.

Gene	Applications	Primer Pair Sequences (forward and reverse primer, 5'-3')
<i>KIN10L</i>	Expression in plant	GGGGACAAGTTTGTACAAAAAAGCAGGCTTC ATGGGAGATGGGAGTTCCAGTAG and GGGGACCACTTTGTACAAGAAAGCTGGGTCTGAGGCGTCTG GATTTGTTAGG
<i>KIN10L</i>	Recombinant protein	TCGAAGGTAGGCATATGATGTTCAAACGAGTAGATGAGTT T and AGATTACCTATCTAGATCAGAGGACTCGGAGCTGA
<i>KIN10</i>	Expression in plant	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGTTCAAA CGAGTAGATGAGTTTAATT and GGGGACCACTTTGTACAAGAAAGCTGGGTCTCAGAGGACT CGGAGCTGAG
<i>KIN10</i>	Recombinant protein	TCGAAGGTAGGCATATGATGGATGGATCAGGCACAG and AGATTACCTATCTAGATCAGAGGACTCGGAGCTGA
<i>KIN10</i> kinase domain	Recombinant protein	CTTGAATTCATGGATGGATCAGGCACAGG and GAGTTCCTCGAGTCAATAACCACTAGAGGCACGGAAAC
<i>GRIK1</i>	Expression in plant	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGTTTTGT GATAGTTTTGCATTTGCC and GGGGACCACTTTGTACAAGAAAGCTGGGTCTGCTATGGTTTT GATCTTCTTCTTCTTCAG
<i>GRIK1</i>	Recombinant protein	CTTGAATTCATGTTTTGTGATAGTTTTGCA and GAGTTCCTCGAGTCAGCTATGGTTTTGATCTT
<i>KIN10(T198A)</i>	Expression in plant	GGACTTCCACAACCTGCCTTCAAAAAATGACCATCTCGC and GAAGGCAAGTTGTGGAAGTCCAAATTATGC
<i>GRIK1(K137A)</i>	Expression in plant	GACTTGTGAAAAGCCGCAATAGCATAATGCTTGTTCATCGA CAG and CTATTGCGGCTTTTCACAAGTCACATTTATCG
<i>GRIK1(S261A)</i>	Expression in plant	CTTTGAATACTTGGGCGACACTGAAATCTCCTATTTTCACT C and GTGTCGCCCAAGTATTCAAAGATGATGATGATCAAC
<i>KIN10</i> native promoter	Complementation	CCAAGCTTGCATGCCTTCACAGCTATACTATCTTCTCTTT and TGTTGATAACTCTAGGAGAATTTAGCGAGAATTAGGATCC
<i>KIN10L(K250A,K251A,K253A)</i>	Expression in plant	CGCTATCGCCGCAAAAAGGTTGGGAATGTTTTTCATCATC and CCCAACCTTTTTGCGGCGATAGCGGGAGGGATATACACATT ACCTAGCC
<i>SV40NLS</i>	Add SV40NLS to both N-terminus and C-terminus of KIN10L	ATGCCAAAGAAAAAGAGAAAGGTTTTCAAACGAGTAGATG AGTTT and TCAAACCTTTCTTTTCTTTTATAGGAGGACTCGGAGCTGAG C GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGCCAAAG AAAAAGAGAAAGGTT and GGGGACCACTTTGTACAAGAAAGCTGGGTCTCAAACCTTTC TTTTCTTTTATAGG

<i>KIN10</i>	qPCR	AGAATGATGGCACTGTGACG and ACAGGTGAAGCAACGCTT
<i>KIN11</i>	qPCR	CCGTGTTCCAAGTGGCTATC and ACATGTGCAGGAATCCAGTG
<i>F-box</i>	qPCR	GGCTGAGAGGTTTCGAGTGTT and GGCTGTTGCATGACTGAAGA
<i>UBQ10</i>	qPCR	ACCATCACTTTGGAGGTGGA and GTCAATGGTGTCGGAGCTTT
<i>grik1-1</i> (CS2103 211)	genotyping	CAAACGCTTCTAATCGCCAAC and CATGGTGACATCAAACCTGAC
<i>grik2-1</i> (salk_015 230)	genotyping	TGCGGGATATTGTTACTGGAC and GTCCTGAAGAGTATCCGCAAG