Supplemental Table S1. Constructs and corresponding primers used in this study

Construct	Vector	Primer sequence (5'-3')
Y2H assay		
BD-P8	pGBKT7	F: ATTCCATGGAGATGACTGGCACCCATGAC R: GCCGGATCCCTTACACAATAATAGATGCAG
BD-SP8	pGBKT7	F: GCTCATATGATGATTGGCACCTATGATGA R: ATTGGATCCCTTAGCAAAGAATAGACACAGC
BD-P5-1	pGBKT7	F: ATTCCCGGGTATGACATATTCGAAAGTG R: TAAGTCGACGTCACGTTGAAGATGGTTG
BD-P5-2	pGBKT7	F: ATTCCATGGAGATGACAAAATTTCCACTTG R: GAAGGATCCCTCAGAGATGAAGCATGAC
BD-P6	pGBKT7	F: ATTCCATGGAGATGTCTGCCCACCTGACC R: GCCGGATCCCTTACTCAGAGCTTAGTTGCC
BD-P7-1	pGBKT7	F: ATTGGATCCGTATGGATAGACCTGCTCGA R: GCCCTGCAGGTTAAGCAGAAGGAGATGA
BD-P7-2	pGBKT7	F: GATCCATGGAGATGAATTACACTTTAGG R: CTCGGATCCCTTAAGAATTCAGTATCTT
BD-P9-1	pGBKT7	F: ATTCCATGGAGATGGCAGACCAAGAGC R: CCAGGATCCCTCAAACGTCCAATTTC
BD-P9-2	pGBKT7	F: ATTCCATGGAGATGAATCCCCAATCTT R: CACGGATCCCTTAATTAAAAAGCGTATAG
BD-P10	pGBKT7	F: ATTCCATGGAGATGGCTGACATAAGACTC R: GATGGATCCCTCATCTTGTCACTTTGTT
AD-ZmAKINβγ-2	pGADT7	F: ATTGAATTCATGTTCTCGCACGGCGCTG R: CACGGATCCCTCACAAGCTCAGCAAGAAC
AD-ZmAKINβγ-1	pGADT7	F: ATTGAATTCATGTTCTCGCACGGCGC R: CCTGGATCCCTCACAAGCTCAGCAAGAAC
AD-OsAKINβγ	pGADT7	F: ATTATCGATACATGTTTTCCCACGGCGC R: GCCCTCGAGCTTAGCTCAGCAAGAACTTG
AD-NbAKINβγ	pGADT7	F: ACGATCGATACATGTTTGGGTCTGGGAG R: ATTGGATCCCGCAGCCGAGCAAGAAC
AD-ZmAKINβγ-2(1-153)	pGADT7	F: The same as for AD-ZmAKINβγ-2 R: GCAGGATCCTCACTCTGAAACTCTCAGAGTAC
AD-ZmAKINβγ-2(154-496)	pGADT7	F: GCCGAATTCATGGCTGCAATACAAATATCTAG R: ATTGGATCCTCACAAGCTCAGCAAGAAC
AD-ZmAKINβγ-2(1-237)	pGADT7	F: The same as for AD-ZmAKINβγ-2 R: ACTGGATCCCCGAGCCATGAGTTTCTAG
AD-ZmAKINβγ-2(1-333)	pGADT7	F: The same as for AD-ZmAKINβγ-2 R: GCTGGATCCCAGTTGAGTTTTTGAAGTATC
AD-ZmAKINβγ-2(1-415)	pGADT7	F: The same as for AD-ZmAKINβγ-2 R: GCTGGATCCCTGTGTAGACCTTGTCTTT
BiFC assay		
P8-YFP^N	pSPYNE-35S	F: CAGACTAGTATGACTGGCACCCATGAC R: GACCTCGAGCACAATAATAGATGCAGC

P8-YFP^{C}	pSPYCE-35S	F: The same as for P8-YFP^{N} R: The same as for P8-YFP^{N}
ZmAKINβγ-2-YFP^{C}	pSPYCE-35S	F: ATTACTAGTATGTTCTCGCACGGCGCTG R: AGACTCGAGCAAGCTCAGCAAGAACTTG
ZmAKINβγ-2-YFP^{N}	pSPYNE-35S	F: The same as for ZmAKINβγ-2-YFP^{C} R: The same as for ZmAKINβγ-2-YFP^{C}
ZmAKINβγ-1-YFP^{C}	pSPYCE-35S	F: The same as for ZmAKINβγ-2-YFP^{C} R: The same as for ZmAKINβγ-2-YFP^{C}
pUC-P8-YFP^{N}	pUC-SPYNE	F: The same as for P8-YFP^{N} R: The same as for P8-YFP^{N}
pUC-ZmAKINβγ-2-YFP^{C}	pUC-SPYCE	F: The same as for ZmAKINβγ-2-YFP^{C} R: The same as for ZmAKINβγ-2-YFP^{C}
pUC-ZmAKINβγ-1-YFP^{C}	pUC-SPYCE	F: The same as for ZmAKINβγ-2-YFP^{C} R: The same as for ZmAKINβγ-2-YFP^{C}
Subcellular localization		
ZmAKINβγ-1-GFP	pGD-eGFP	F: ATTAGATCTATGTTCTCGCACGGCGC R: CAAGTCGACCAAGCTCAGCAAGAACTTG
ZmAKINβγ-2-GFP	pGD-eGFP	F: The same as for ZmAKINβγ-1-GFP R: The same as for ZmAKINβγ-1-GFP
GFP-P8	pGD-eGFP	F: ATTCTGCAGTCATGACTGGCACCCATGA R: CGCGGATCCTTACACAATAATAGATGCAG
ZmAKINβγ-1-RFP	pGD-RFP	F: The same as for ZmAKINβγ-1-GFP R: The same as for ZmAKINβγ-1-GFP
ZmAKINβγ-2-RFP	pGD-RFP	F: The same as for ZmAKINβγ-1-GFP R: The same as for ZmAKINβγ-1-GFP
BMV VIGS		
BMV-*ZmAKINβγ*s	pC13/F3	F: ATTCCTAGGAACAGTCGTCCATTGGC R: ACTCCATGGCGAACATGTGTGTAGAC

The single-underlined letters indicate the enzymatic restriction sites