



Figure S1: Identification of a pathogenicity-deficient mutant M14-9 by screening on lettuce leaves.

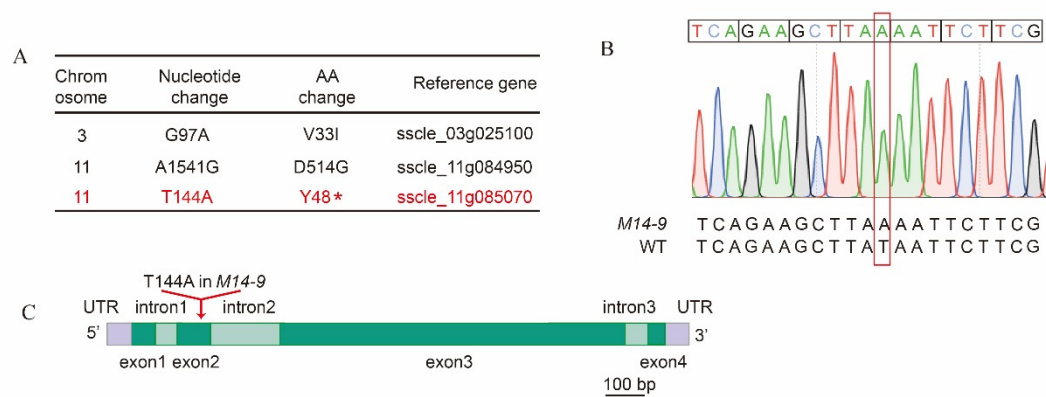


Figure S2: Identification of the molecular lesions of the M14-9 mutants.

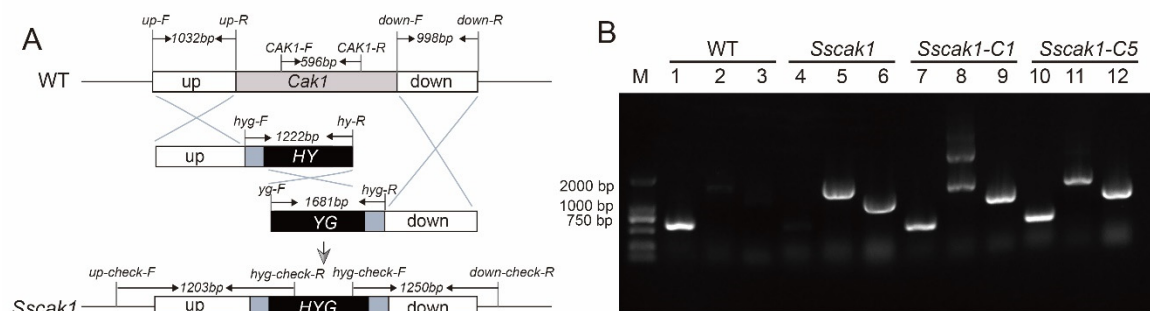


Figure S3: Identification of Sscak1 by PCR.

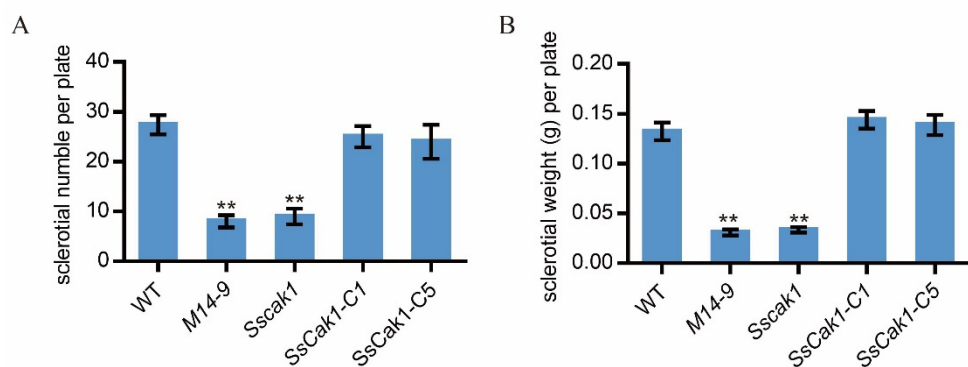


Figure S4: Sclerotia number and weight of SsCak1 knockout and complementation strains.

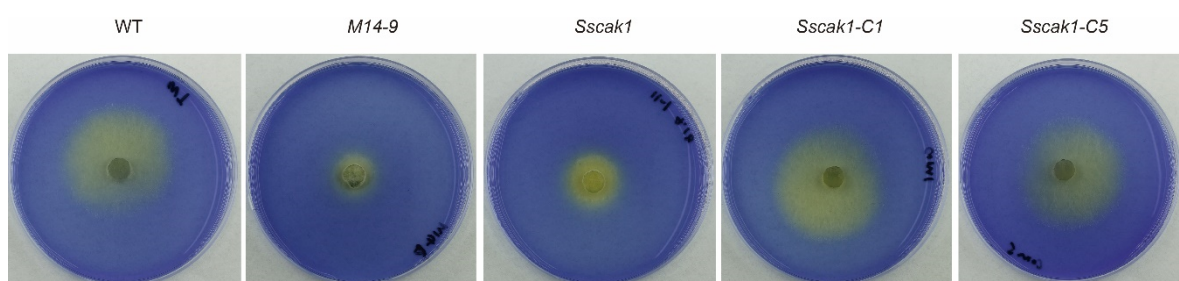


Figure S5: WT, M14-9, Sscak1, SsCak1-C1 and SsCak1-C5 grown on PDA medium containing bromophenol blue. Experiments were conducted three times with similar results.

Supplementary Table S1 Primer sequences used in this study.

up-F	tatgaccatgattacgaattc TCTGCGACCGAAGGATTACT
up-R	ccttcaatatcatcttct ATTGTCTGAACCAAGAGGAT
down-F	tagaggaatccttctt CCAGGTCAAGTAATGTGTCT
down-R	tctagaggatccccgggtacc TTACGAATGTGTGGAGGTT
hyg-F	TGACTGGAGCGAGGCGATGT
hy-R	tctagaggatccccgggtaccGCATCATCGAAATTGCCGTCAACC
yg-F	tatgaccatgattacgaattcTCTCGGAGGGCGAAGAATCTCGTGC
hyg-R	AAAGAAGGATTACCTCTAAACAAGTGT
up-check-F	TTCATTGTTGACCTCCACTA
hyg-check-R	TACAGGACACACATTCATCG

hyg-check-F	TTATCCTCTTCACACGCTCG
down-check-R	TCTCCTTCTACATCCGCATC
CAK1-F	GAGATTGGTCTTGCTGTTGC
CAK1-R	CAGCATCTGGAAGTAACTCT
Cak1-RT-F	GCTACCTACGATGATTTATGC
Cak1-RT-R	ATTATGGAAGGATGCGAGAG
Sstub1-RT-F	GTGAGGCTGAGGGCTGTGTGA
Sstub1-RT-R	CCTTTGGCGATGGGACG
TRV-Cak1-F	gtgagtaagggtaccgaattcATGGACTCCACAACAGACTG
TRV-Cak1-R	gagacgcgtgagctcggtaccAACAGCGCCGCTAGAGATAT
TRV-PDS-F	gtgagtaagggtaccgaattcGAACATATTGAGTCAAAAGGTG
TRV-PDS-R	gagacgcgtgagctcggtaccGCTTCTGCTGAAGAGCAGAT
TRV-GFP-F	gtgagtaagggtaccgaattcTGGTGAGCAAGGGCGAGGAG
TRV-GFP-R	gagacgcgtgagctcggtaccTGGACGTAGCCTTCGGGCAT