Supporting Information for

Brief Report

Endophytic *Fusarium commune* G3-29-Mediated dsRNA Delivery for Efficient Control of Western Flower Thrips

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Figure S1 Analysis of colony diameters of recombinant *F. commune* G3-29 strains and evaluation of its pathogenicity on kidney bean leaves.

Figure S2 The in vitro-synthesized dsRNAs targeting *ACT*, *SNF*, and *GFP* were analyzed by gel electrophoresis to confirm their integrity and size.

Table S1 Primer sequences used in this study.

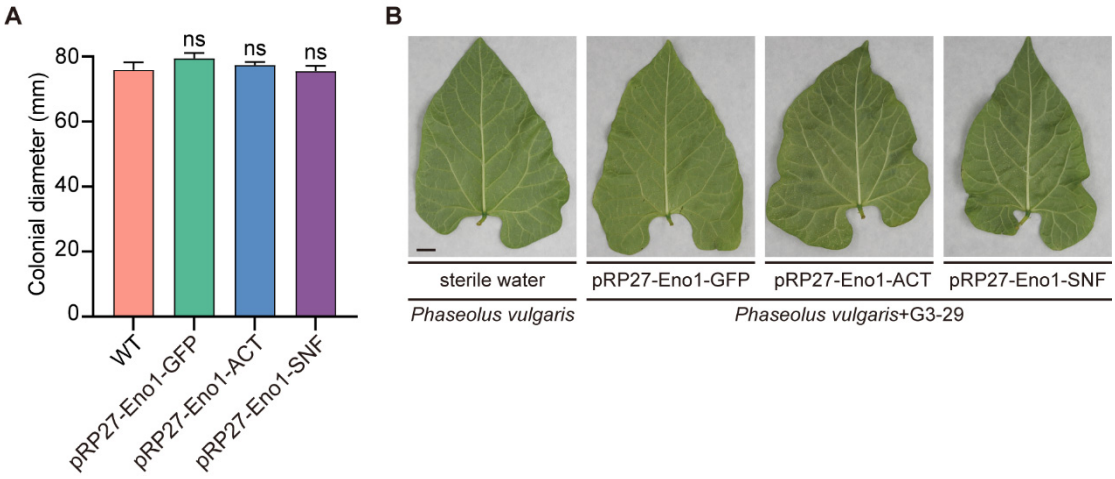


Figure S1. Analysis of colony diameters of recombinant *F. commune* G3-29 strains and evaluation of its pathogenicity on kidney bean leaves.

(**A**) Analysis of colony diameters of the three transformed strains: pRP27-ACT-pEno1, pRP27-SNF-pEno1, and pRP27-GFP-pEno1 (n=3). (**B**) pathogenicity evaluation of the recombinant *F. commune* G3-29 strains on kidney bean leaves.

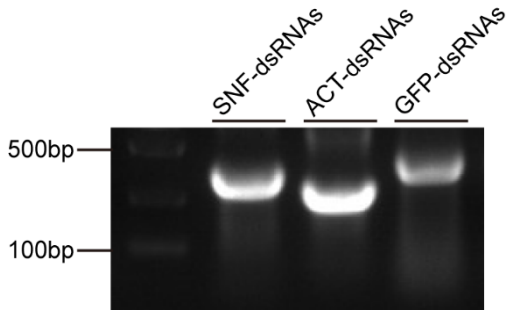


Figure S2. The in vitro-synthesized dsRNAs targeting *ACT*, *SNF*, and *GFP* were analyzed by gel electrophoresis to confirm their integrity and size.

Table S1 Primer sequences used in this study.

Primers	Sequence（5′ to 3′）	Use of PCR products
GFP-dsRNA-F	ATGGTGAGCAAGGGCGAG	To clone the 450 bp *GFP* gene sequence
GFP-dsRNA-R	GTTGTGGCTGTTGTAGTTGTACTC	
ACT-dsRNA-F	CGCGGATCCCCTGAAGTACCCCATTGAAC	To clone the 321bp *ACT* gene sequence
ACT-dsRNA-R	GGACTAGTTGGGGCAGAGCATAACCTTCA	
SNF-dsRNA-F	CGCGGATCCAGCTTGTGGTATGGAAAATGTA	To clone the 402bp *SNF* gene sequence
SNF-dsRNA -R	GGACTAGTCGAATTCTTGCCAATAAAACTT	
qPCR-EF1α-F	AAGGAACTGCGTCGTGGATA	To RT-qPCR analysis of *EF1α* expression in WFT (as reference gene)
qPCR-EF1α-R	AGGGTGGTTCAGGACAATGA	
qPCR-ACT-F	GTCTGGTGCTACCATCGCTT	To RT-qPCR analysis of *ACT* expression in WFT
qPCR-ACT-R	CTTGCACATACCGGACCCAT	
qPCR-SNF-F	GGGTGCTTCGCTTTCAACTC	To RT-qPCR analysis of *SNF* expression in WFT
qPCR-SNF-R	CTCTGTCACGAAAAGGGGCA	
T7-dsGFP-F	TAATACGACTCACTATAGGGATGGTGAGCAAGGGCGAG	To synthesize GFP-dsRNAs
T7-dsGFP-R	TAATACGACTCACTATAGGGGTTGTGGCTGTTGTAGTTGTACTC	
T7-dsACT-F	TAATACGACTCACTATAGGGCCTGAAGTACCCCATTGAACACG	To synthesize ACT-dsRNAs
T7-dsACT-R	TAATACGACTCACTATAGGGTGGGGCAGAGCATAACCTTCA	
T7-dsSNF-F	TAATACGACTCACTATAGGGAGCTTGTGGTATGGAAAATGTACCT	To synthesize SNF-dsRNAs
T7-dsSNF-R	TAATACGACTCACTATAGGGCGAATTCTTGCCAATAAAACTTGAACA	