Supplementary Information

A CRISPR-Cas9 System for Genome Editing of *Fusarium proliferatum*

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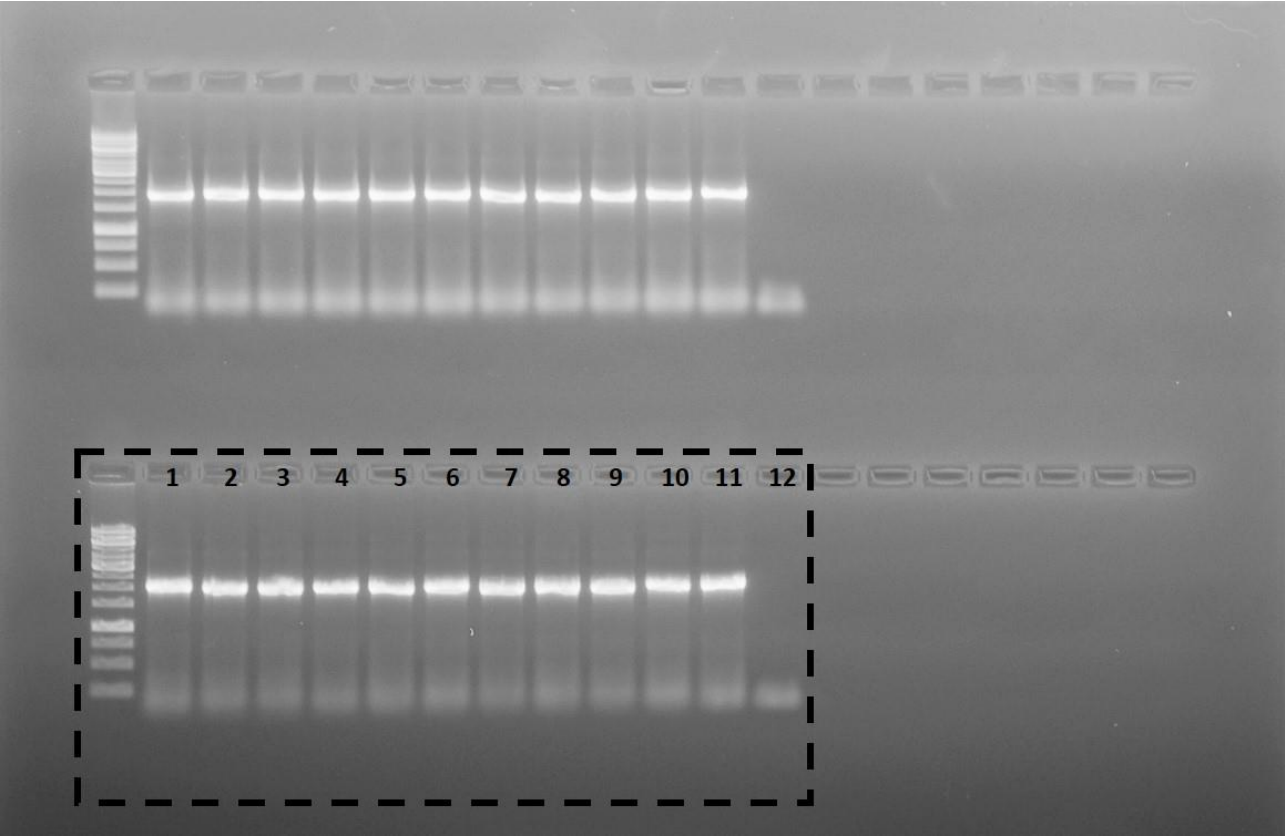
Supplementary Table

Table S1. Primers used in this study. Microhomology arms for Homology Directed Repair (HDR) are underlined. Primer sequences specific for amplification of the *HygB* cassette are in bold and nucleotide positions relative to the *FUM1* start[1] or stop [2] codon are indicated.

Primer ID	Nucleotide sequence 5′→3′	Purpose
IVT-F-gRNA1175	TAATACGACTCACTATAGTCACCCCCGAGTACCG	PCR assembly of sgRNA1175 DNA template
IVT-R-gRNA1175	TTCTAGCTCTAAAACACAGCGGTACTCGGGGGTG	
IVT-F-gRNA9269	TAATACGACTCACTATAGTGATGCGTATCTGGAA	PCR assembly of gRNA9269 DNA template
IVT-R-gRNA9269	TTCTAGCTCTAAAACTCATTTCCAGATACGCATC	
HDR5′harmHygB_F	<u>ATCATTTTAAAGTTCAACATGGTAGTAATCGAATCACCCCCGAGTACCGC</u>**ACAGTTTAGCTTGCCTCGTC**	Amplification of HDR-*HygB* repair template with 50-bp microhomology
HDR3′harmHygB_R	<u>AGTAGTACCTCAGAATCTGTTATCTTCTTGTTCAGTGTTCTATGGAGCCT</u>**TCCAGTATAGCGACCAGCATT**	
FUM1_F(-83up)[1]	ATCATCCGACCAAGCCTTCGTAG	Amplification of genomic region spanning the RNP1175 recombination site
HygB_R	**TCCAGTATAGCGACCAGCATT**	
HygB_F	**ACAGTTTAGCTTGCCTCGTC**	Amplification of genomic region spanning the RNP9269 recombination site
FUM1_R(+114dw)[2]	AGGGCACATGTACATACGAGTGT	
probe5′_koFUM1_F	TTTCCGAGTCCGACACCATG	Amplification of Southern blot probe
probe3′_koFUM1_R	TACGAAGGCTTGGTCGGATG	

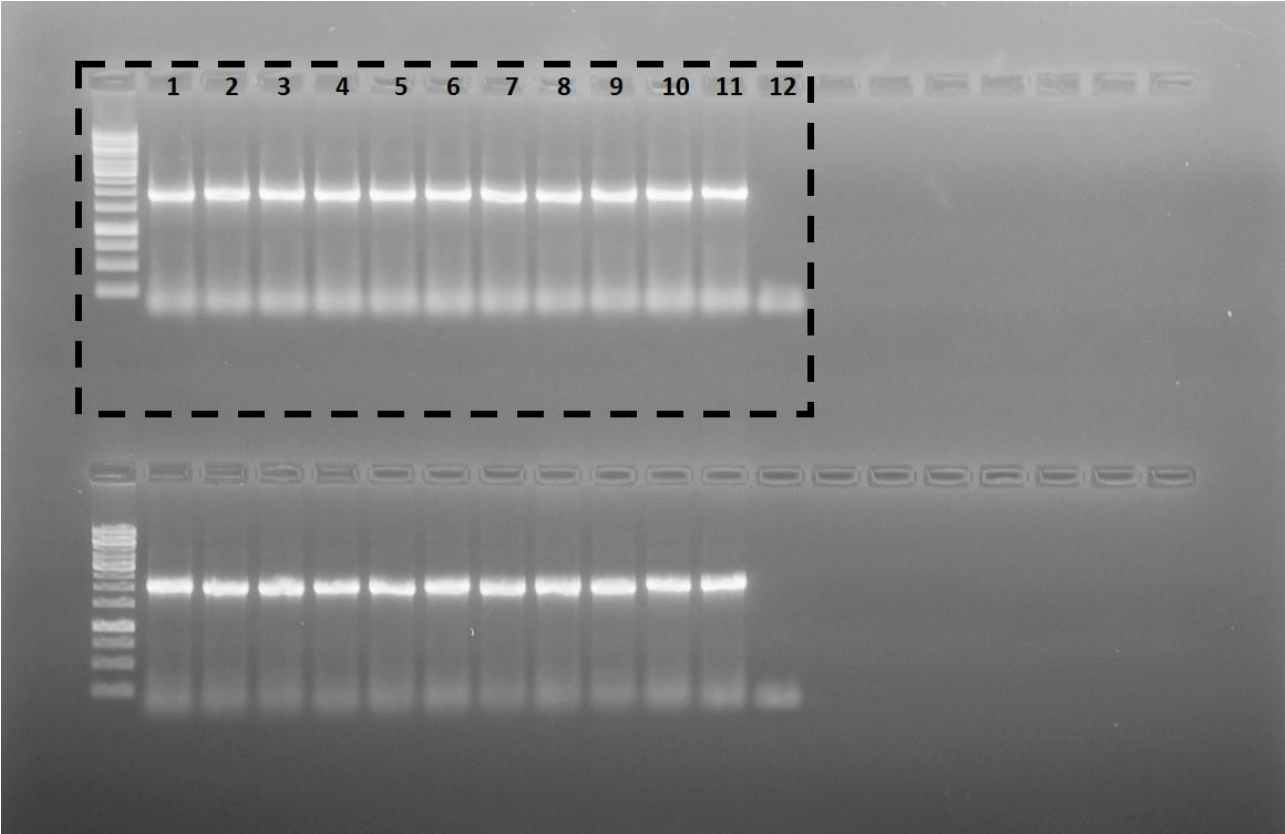**Supplementary Information**

Full-length gel

Figure 3A

Supplementary Information

Full-length gel

Figure 3B

Supplementary Information

Full-length blot

Figure 4