

Article

RNAPII Degradation Factor Def1 Is Required for Development, Stress Response, and Full Virulence of *Magnaporthe oryzae*

Xinrong Zhang ^{1,2}, Dong Li ¹, Jun Zhu ², Jing Zheng ², Hongye Li ², Qixuan He ¹, Jun Peng ³, Shen Chen ⁴, Xiao-Lin Chen ^{2,*} and Weixiang Wang ^{1,*}

¹ Beijing Key Laboratory of New Technology in Agricultural Application, National Demonstration Center for Experimental Plant Production Education, College of Plant Science and Technology, Beijing University of Agriculture, Beijing 102206, China

² State Key Laboratory of Agricultural Microbiology, Provincial Key Laboratory of Plant Pathology of Hubei Province, College of Plant Science and Technology, Huazhong Agricultural University, Wuhan 430070, China

³ Environment and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences, Haikou 571101, China

⁴ Guangdong Provincial Key Laboratory of High Technology for Plant Protection, Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou 510640, China

* Correspondence: chenxiaolin@mail.hzau.edu.cn (X.-L.C.); wangweixiang@buaa.edu.cn (W.W.)

Supplementary material – All relevant material referred to, but not included in the main text are included in the following supplementary section. All experimental raw data is available upon request from Prof Xiao-Lin Chen at the College of Plant Science & Technology, Huazhong Agricultural University.

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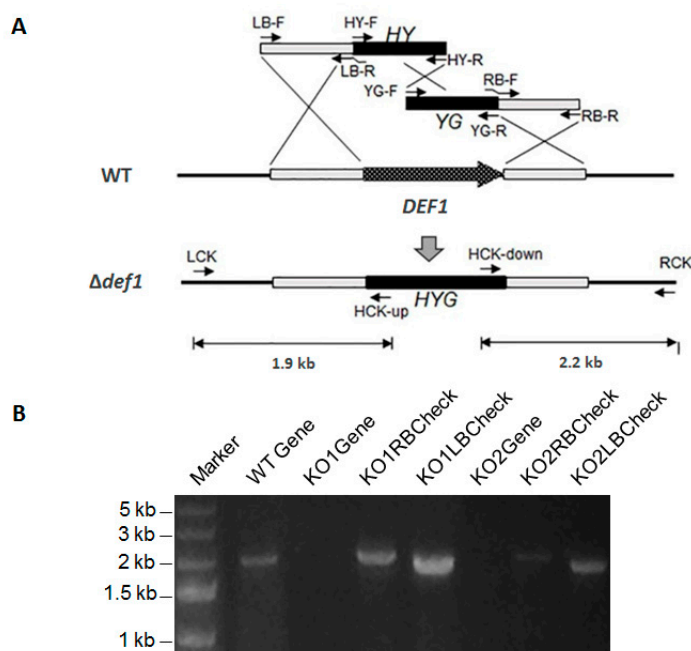


Figure S1. Targeted deletion of *Def1*. (A) Diagram of the deletion strategy of *Def1*. (B) Identification of *Def1* deletion mutants by PCR. KO1 and KO2 are two independent strains.

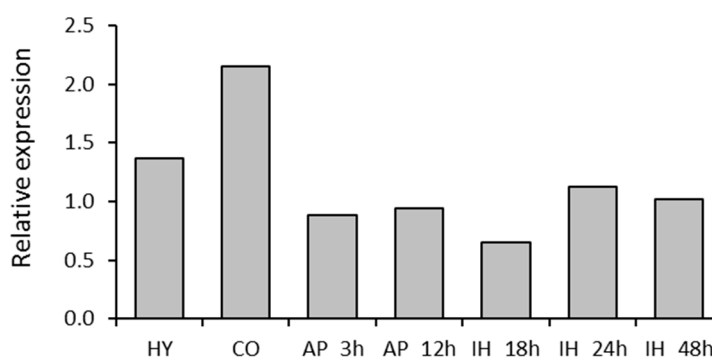


Figure S2. Relative expression level of *Def1* gene in different development stages of *M. oryzae*. HY, Vegetative hyphae; CO, Conidia; AP_3h, Appressoria at 3 hpi; AP_12h, Appressoria at 12 hpi; IH_18h, Infection hyphae at 18 hpi; IH_24h, Infection hyphae at 24 hpi; IH_48h, Infection hyphae at 48 hpi.

Table S1. Fungal strains used in this study.

Strains	Discriptions	References
WT	P131, a wild-type isolate of <i>M. oryzae</i>	This study
DEF1KO1	One independent <i>DEF1</i> deletion mutant of P131	This study
DEF1KO2	Another independent <i>DEF1</i> deletion mutant of P131	This study
cDEF1	Complementary strain of DEF1KO1	This study
$\Delta def1/DEF1^{S232A}$:Flag	O-GlcNAc site mutant strains of DEF1	This study
$\Delta def1/DEF1$:Flag	DEF1-Flag fusion expression strains	This study

Table S2. Primers used in this study.

Primers	Sequences (5'–3')
gene-up	CCGAGACTATCGAGCCACTC
gene-down	CACCAAAACCCTGGTTACCA
LCK	TGCCGGTCTCTTTGATACAT
HCK-up	GACAGACGTCGCGGTGAGTT
HCK-down	TCTGGACCGATGGCTGTGTAG
RCK	CGAAGTCGGGTGTAGGCTCT
pKN-F	GGCGAATTGGGTACCAGTTGTTGCGAGTCTTGAGG
pKN-R	GTGGATCCCGAATTCGGCCTAATGGTAGTTGTTGC
pKNFlag-F	AATCTTCAAACCCGGGATGTCTACTGAGGCACAAACCCG
pKNFlag-R	ACGGTATCGATAAGCTTATGGTAGTTGTTGCCCAAC
DEF1-S232AF	GTCCTGCTCCTGCCAAACCCGCCGTC
DEF1-S232AR	GACGGCGGGTTTGGCAGGAGCAGGAGC