


ORIGINAL ARTICLE

Identifying the key motif essential for enhancing plant defense against *Botrytis cinerea* by β -glucanase from *Bacillus velezensis* LJ02

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SUPPLEMENTARY MATERIAL

The authors are fully responsible for both the content and the formal aspects of the supplementary material. No editorial adjustments were made.

Table S1. pET-28a(+)- β -glucanase cloning primers

Primer ID	Sequence
pET-28a(+)- β -glucanase-F	GGGTCGCGGATCCGAATTCATGTTTATCGTATGAAACGAGTGC
pET-28a(+)- β -glucanase-R	GTGGTGGTGGTGGTCTCGAGTTATTTTTTTGTATAGCG

Table S2. β -glucanase transient vector construction primers

Primer ID	Sequence
β -glucanase-F	ATATAACATTACGCCGAGGCCTATGTTTTATCGTATGAAAC
β -glucanase-R	CTGTAATCATAGGGAAGAGGCCTTATTTTTTTGTATAGCG

Table S3. β -glucanase mutants vector construction primers

Primer ID	Sequence
β N ⁵⁴ -F	CTTGCCGCTCACTGGATTGTTTT
β N ⁵⁴ -R	CTCAAAAACAATCCAGTGACGGCAAGCAGCAGCACTCGTTTCA
β N ¹¹⁰ -F	CCAATGGAGATATGTTCAACGCTAAAAACACAGGGATCGT
β N ¹¹⁰ -R	ACGATCCCTGTGTTTTAGCGTTGAACATATCTCCATTGGAA
β N ¹⁶¹ -F	GTCAGAATGAAACCGGCTGTTGCGGATCTCGGATTT
β N ¹⁶¹ -R	ATCCGAGATCCGCAACAGCCGTTT
β N ²¹³ -F	CCATGAGAAGTTGCGAATGGGATAGGTGTCGATGACTGGCT
β N ²¹³ -R	ACACCTATCCATTGCAACCTTCTC
β N ²⁴³ -R	GTAATCATAGGGAAGAGGCCTTAATCCACAAGTTCATCATGAT

Table S4. The sequences of RT-qPCR primers

Primer ID	Sequence
<i>PT11</i> -F	GACAGGTCAAGTGCCTTCTTCG
<i>PT11</i> -R	CAATAGTTGGTGGCTCGTGGG
<i>WRKY7</i> -F	CAGCGCGTAAACATGTGGAAAGAG
<i>WRKY7</i> -R	CCAAAGAAGATCTGAGCCGTGGAG
<i>WRKY8</i> -F	CACAACCATCAAAGCCGACTCAG
<i>WRKY8</i> -R	GGGTCTGGTTCTTTTGTGAGTCTGGTT
<i>ACRE31</i> -F	CCAGCCATCCACGATCCATTCATA
<i>ACRE31</i> -R	GAAGAAGACTTAAGTTTGCCCTGG
<i>CYP71D20</i> -F	AAGGTCCACCGACCATGTCCTTAGAG
<i>CYP71D20</i> -R	AAGAATTCCTTGCCCTTGAGTACTTGC
<i>FRK</i> -F	AGCAGTTGACGGACAAAAGTG
<i>FRK</i> -R	TGTGTAGTTTTGCCATTGG