

New Phytologist Supporting Information

MoErv29 promotes apoplastic effector secretion contributing to virulence of the rice blast fungus *Magnaporthe oryzae*

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Table S1. Primers used in this study

Primer name	Sequence (5'-3')	Remark
ERV29 F1	TAAATCGATCGAGTGGGAATCGTCTATCCAAG	amplify <i>MoERV29</i> 5' flank sequence
ERV29 F2	TAAGAATTCCGTTGCTAGCTCTACCCGGAG	amplify <i>MoERV29</i> 5' flank sequence
ERV29 F3	TAATCTAGAGAAAAACGACGCATCACACAATTG	amplify <i>MoERV29</i> 3' flank sequence
ERV29 F4	TAACCGCGGGAGAGACAAGACTTCCTCTGC	amplify <i>MoERV29</i> 3' flank sequence
ERV29 KO-F	GGAGACTAGTTTACGTGGCCGCTAAC	amplify <i>MoERV29</i> probe sequence
ERV29 KO-R	GAAGTACATTTGCGGTCCCTCTCCTC	amplify <i>MoERV29</i> probe sequence
ERV29 BY	CTACATATGCAGTGTCTGATGTG	validation of <i>MoERV29</i> deletion (HPH)
HPH R	GCTGATCTGACCAGTTGCCTA	
ERV29 HB-F1	ACTCACTATAGGGCGAATTGGGTACTCAAATTGGTTAACCTTCACAC CCAACCTTAG	<i>MoERV29</i> complementation
ERV29 HB-R1	CACCACCCGGTGAACAGCTCCTGCCCTGCTCACGTAACCTT CTTCTCGTCG	<i>MoERV29</i> complementation
AD-ERV29 F1	TACCAGATTACGCTCATATGATGTCGCAACGAGGACCTTCGGGC	Construction of AD-ERV29
AD-ERV29 R1	TGCCCACCCGGGTGAAATTCTTAGTAAACCTTCTCTCGTCG	Construction of AD-ERV29
BD-ERV29 F1	TGATCTCAGAGGAGGACCTGCATATGATGTCGCAACGAGGACCTT CGGGC	Construction of BD-ERV29
BD-ERV29 R1	GCAGGTCGACGGATCCCCGGAAATTCTTAGTAAACCTTCTCTCT CGTCG	Construction of BD-ERV29
MoHac1 32a F1:	CAAGGCCATGGCTGATATCATGAACACTTGGAGCTCCACCCAG	Construction of MoHac1 32a
MoHac1 32a F2:	GTGCGGCCGCAAGCTTGTGACCTATAGACTACCTGCTCGTTGC	Construction of MoHac1 32a
Slp1-Stag F1	TTTCGTAGGAACCCAATCTCAAAATGCAGTTGCTACCATCACC	Construction of Slp1-S
Slp1-Stag R1	GCTCCTGCCCTGCTCACTTAGCTATCCACATGCTGACGTTCAA TTTCGCCGCCCGTTCTTGAGATGGGGATG	Construction of Slp1-S
Slp1-GFP F1	ACTCACTATAGGGCGAATTGGGTACTCAAATTGGTTGCACATTG AACAGTGCATG	Construction of Slp1-GFP
Slp1-GFP R1	CACCACCCGGTGAACAGCTCCTGCCCTGCTCACGTTCTGCA GATGGGGATG	Construction of Slp1-GFP
Bas4-GFP F1	TTTCGTAGGAACCCAATCTCAAAATGCAGCTCTCATTCTCAGCA ATC	Construction of Bas4-GFP
Bas4-GFP R1	CACCACCCGGTGAACAGCTCCTGCCCTGCTCACAGCAGGGG GGATAGACGAGC	Construction of Bas4-GFP
28S rDNA LL	TACGAGAGGAACCGCTATTAGATAATT	qRT-PCR

28S rDNA RR	TCAGCAGATCGTAACGATAAAGCTACTC	qRT-PCR
Rubq1 LL	GTGGTGGCCAGTAAGTCCTC	qRT-PCR
Rubq1 RR	GGACACAATGATTAGGGATCA	qRT-PCR
MGG_00227 F1	GTATCGATAAGCTTGATATGCCAAACCCATACCGCGATTG	amplify MGG_00227 5' flank sequence
MGG_00227 R1	GGTGGAGGATGGGCAAGGTAG	amplify MGG_00227 5' flank sequence
Hph F:	CTACCTTGCCCATCCTCACCGGAGGTCAACACATCAATG	amplify Hph sequence
Hph R:	CTCTATTCCCTTGCCCTCG	amplify Hph sequence

MGG_00227 F2:	CGAGGGCAAAGGAATAGAGCGTGTCTTGATAGGTAGGG	amplify MGG_00227 3' flank sequence
MGG_00227 R2:	GGTGGCGGCCGCTAGAACTAGTGAGATCAACTGTGAAC	amplify MGG_00227 3' flank sequence
MGG_00227 Con F:	GCGCAATCCGGCTACGGCACCTGC	amplify MGG_00227 probe sequence
MGG_00227 Con R:	CGTTGTCACGGTAACGGTAG	amplify MGG_00227 probe sequence
MGG_00227 BY:	CTGGTCCAACATACATCATT	validation of MGG_00227 deletion (HPH)
MGG_00227 GFPF1	TTTCGTAGGAACCCAATCTCAAAATGCGAACACGCTCGT TAAC	Construction of MGG_00227 GFPF1
MGG_00227 GFPR1:	CACCACCCGGTGAACAGCTCCTCGCCCTTGCTCACATCAA AATCAACGATGGTTG	Construction of MGG_00227 GFPR1
MGG_00259 F1:	GTATCGATAAGCTTGATATCCACGGATATGTTGAAACCTTG	amplify MGG_00259 5' flank sequence
MGG_00259 R1:	GTTTACTGGGGAGTTGGAT	amplify MGG_00259 5' flank sequence
Hph F 00259:	CATCCAACCTCCCAAGTAAACGGAGGTCAACACATCAATG	amplify Hph sequence
Hph R00259:	CTCTATTCCCTTGCCCTCG	amplify Hph sequence
MGG_00259 F2:	CGAGGGCAAAGGAATAGAGGGTTGGTGGGAAGAGATG	amplify MGG_00259 3' flank sequence
MGG_00259 R2:	GGTGGCGGCCGCTAGAACTAGTCTGGCCAAGGAGGGCA AGCT	amplify MGG_00259 3' flank sequence
MGG_00259 Con F:	GGCGCCGTGGCCGACCTGTC	amplify MGG_00259 probe sequence
MGG_00259 Con R:	GCACGGTCGAGTTGTCTGCC	amplify MGG_00259 probe sequence
MGG_00259 BY:	GGCACTACTTGCACATACCAC	validation of MGG_00229 deletion (HPH)
MGG_00259 GFPF1:	TTTCGTAGGAACCCAATCTCAAAATGAAGGTCTCACTAAG CATC	Construction of MGG_00259 GFPF1
MGG_00259 GFPR1:	CACCACCCGGTGAACAGCTCCTCGCCCTTGCTCACCGGCA GAGCCAACGGGCTCAG	Construction of MGG_00259 GFPR1
MGG_01655 F1:	GTATCGATAAGCTTGATATCCAGCCCCATCAGGCCACTAG	amplify MGG_01655 5' flank sequence
MGG_01655 R1:	CTTGGCGAGTATACAGCC	amplify MGG_01655 5' flank sequence
Hph 01655 F:	GGCTGTATATACCGCCAAGGGAGGTCAACACATCAATG	amplify Hph sequence
Hph 01655 R:	CTCTATTCCCTTGCCCTCG	amplify Hph sequence
MGG_01655 F2:	CGAGGGCAAAGGAATAGAGGATTGACGGCACGCATTTCGG	amplify MGG_01655 3' flank sequence
MGG_01655 R2:	GGTGGCGGCCGCTAGAACTAGTGTAGAGCAGCGATGATT GCC	amplify MGG_01655 3' flank sequence
MGG_01655 Con F:	CGGCAATCATTCCAAGATTGC	amplify MGG_01655 probe sequence
MGG_01655 Con R:	GTTCGGCTCGGACCCACTG	amplify MGG_01655 probe sequence
MGG_01655 BY:	CCGCGGATTACGGTCCCGCC	validation of MGG_01655 deletion (HPH)
MGG_01655 GFPF1:	TTTCGTAGGAACCCAATCTCAAAATGACCTTGTATCCCT	Construction of MGG_01655 GFPF1

	CG	
MGG_01655 GFPR1:	CACCACCCCGGTGAACAGCTCCTGCCCTGCTCACGACA GGGCCGACACCGGGC	Construction of MGG_01655 GFPR1
MGG_05970 F1:	GTATCGATAAGCTTGATATCCTGCCGATCGTGTACCCCTTAC	amplify MGG_05970 5' flank sequence
MGG_05970 R1:	GTGCAAGATAACGAGTGATG	amplify MGG_05970 5' flank sequence
Hph 05970 F:	CATCACTCGTTATCTGCACGGAGGTCAACACATCAATG	amplify Hph sequence
Hph 05790 R:	CTCTATTCCCTTGCCCTCG	amplify Hph sequence
MGG_05970 F2:	CGAGGGCAAAGGAATAGAGGCTGTCTGGTCTGGGTGAGC	amplify MGG_05970 3' flank sequence
MGG_05970 R2:	GGTGGCGGCCGCTCTAGAACTAGTCATGGCGCTTAACCCT GCG	amplify MGG_05970 3' flank sequence
MGG_05970 Con F:	CAATTCTAACATGACTCACAG	amplify MGG_05970 probe sequence
MGG_05970 Con R:	CAGACCTTGGTCCAGAGTGG	amplify MGG_05970 probe sequence
MGG_05970 BY:	CAAACGACCGTAACAATCGC	validation of MGG_05970 deletion (HPH)
MGG_05970 GFPF1:	TTTCGTAGGAACCCAATCTTAAAATGGCTCGTCACGCAC TGC	Construction of MGG_05970 GFPF1
MGG_05970 GFPR1:	CACCACCCCGGTGAACAGCTCCTGCCCTGCTCACAAATGC CCGAGTCCTCCTGCG	Construction of MGG_05970 GFPR1
MGG_08127 F1:	GTATCGATAAGCTTGATATCCACAGAACCCCCGGTAAGTC	amplify MGG_08127 5' flank sequence
MGG_08127 R1:	AATGGCGGGGTCTTGAGAG	amplify MGG_08127 5' flank sequence
Hph 08127 F:	CTCTCAAAGACCCCGCCATTGGAGGTCAACACATCAATG	amplify Hph sequence
Hph 08127 R:	CTCTATTCCCTTGCCCTCG	amplify Hph sequence
MGG_08127 F2:	CGAGGGCAAAGGAATAGAGACTGGTCGTGCTGAAAGGTG	amplify MGG_08127 3' flank sequence
MGG_08127 R2:	GGTGGCGGCCGCTCTAGAACTAGTGATGACCATTTCCTAG TATC	amplify MGG_08127 3' flank sequence
MGG_08127 Con F:	GAGGTCGTTATAACCGCGTC	amplify MGG_08127 probe sequence
MGG_08127 Con R:	CGTCAATGGCGGATCCGTTGAC	amplify MGG_08127 probe sequence
MGG_08127 BY:	GGTATCCCTGCCCTTTATGC	validation of MGG_08127 deletion (HPH)
MGG_08127GFPF1:	TTTCGTAGGAACCCAATCTTAAAATGAATCTCGGGACAC CATC	Construction of MGG_08127 GFP
MGG_08127GFPR1:	CACCACCCCGGTGAACAGCTCCTGCCCTGCTCACTCTCC TCAAACCAGAGTCCAG	Construction of MGG_08127 GFP
MGG_09139 GFPF1:	TTTCGTAGGAACCCAATCTTAAAATGGTTCAATCTGTGATA TTTG	Construction of MGG_09139 GFP
MGG_09139 GFPF1:	CCCGGTGAACAGCTCCTGCCCTGCTCACGACACCAGAAT CCGCCAGCAC	Construction of MGG_09139 GFP
MGG_13464 GFPF1:	TTTCGTAGGAACCCAATCTTAAAATGAAGGTACCCAGCTT CTTC	Construction of MGG_13464 GFP
MGG_13464 GFPR1:	CCCGGTGAACAGCTCCTGCCCTGCTCACGACTGCGCGA GCAGTGCTGTTAC	Construction of MGG_13464 GFP
