Supplementary materials for

FlbD: a Regulator of Hyphal growth, Stress Resistance, Pathogenicity, and Chlamydospore Production in the Nematode-Trapping Fungus *Arthrobotrys flagrans*

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Content

Table S1–S2.

Table S1 Primers used for genetic manipulation.

Primers	Target gene (Sequence ID)	Sequence (5′−3′)	Description
FlbD-up-for (F2)	*AfFlbD* (EVM02G022510)	ttcggatcttccagaATGCGATACGAGGTTTGTGATTT	Amplify the 5' homologous fragment of *AfFlbD*
FlbD-up-rev		ccttcaatatcatcttctgTATTGTAGTTTTTGTAATTTTTGAAAGACC	
FlbD-hyg-for	*hph*	aCAGAAGATGATATTGAAGGAGCATTT	Amplify the *hph* cassette
FlbD-hyg-rev (R2)		ttgtgaggataAAAGAAGGATTACCTCTAAACAAGTGTACC	
FlbD-down-for	*AfFlbD* (EVM02G022510)	tccttctttTATCCTCACAAACCTATTTCCATAATTG	Amplify the 3' homologous fragment of *AfFlbD*
FlbD-down-rev (R3)		caactgccgttcgacgatatcTCGGTGCTCTTTACTTATATCTGTTGG	
F1	*AfFlbD* (EVM02G022510)	GAATATCACAACTAGTTGGAAC	Amplify the AfFlbD gene
F2		AATGATACGGTCATCGGAGT	
AfGpd-for	*AfGpd* (EVM05G002080)	CGAGAAGCCCGCCAAGT	qRT-PCR
AfGpd-rev		AAAGGTGTCGGTCAAAGCAAT	
RT-*AfStuA*-for	*AfStuA* (EVM01G014700)	GCCTCCCGTGGGTCGTATTA	
RT-*AfStuA*-rev		TCGTAGCGAGTGAGGTGAGGA	
RT-*AfMsn2*-for	*AfMsn2* (EVM03G012820)	CAGACATCCTCTTCCCACCAAT	
RT-*AfMsn2*-rev		GTCTTCGGAGTCACCCAAGTC	
RT-*AfSlt2*-for	*AfSlt2* (EVM04G001370)	GAACCTACTTGCCCTGCTGAA	
RT-*AfSlt2*-rev		TCCAACCCACCTGCCAACTCT	
RT-*AfMedA*-for	*AfMedA* (EVM05G006970)	GATGTTTCGCCACCACAATCA	
RT-*AfMedA*-rev		GCGTAATCCTCCTCCTTTCCTG	
RT-*AfHog1*-for	*AfHog1* (EVM05G008210)	GGAGATGTTGGAGGGAAAGCC	
RT-*AfHog1*-rev		CTTCTGAGAAAGTGGGATACGC	

Table S2 The predicted physiochemical properties of AfFlbD in *A. flagrans*

Gene	Length (bp)	Exon Number	Intron Number	Amino Acids (aa)	Molecular Weight (kDa)	PI	Subcellular localization
AfFlbD	1017	1	0	338	38.11	10.28	Nuclear