

Table S2 Sequences used in this study

Protein	Abbreviation ¹	Accession # ²	Strain
SAD-4	Ab	XM_003014454.1	<i>Arthroderma benhamiae</i> CBS 112371
	Aca	XM_001539307.1	<i>Ajellomyces capsulatus</i> NAM1
	Acl	XM_001267850.1	<i>Aspergillus clavatus</i> NRRL 1
	Ad	XM_002623645.1	<i>Ajellomyces dermatitidis</i> SLH14081
	Af	XM_002377995.1	<i>Aspergillus flavus</i> NRRL3357
	Ag	XM_003173571.1	<i>Arthroderma gypseum</i> CBS 118893
	An	XM_001395616.2	<i>Aspergillus niger</i> CBS 513.88
	Aor	XM_001826292.2	<i>Aspergillus oryzae</i> RIB40
	Aot	XM_002844811.1	<i>Arthroderma otae</i> CBS 113480
	At	XM_001218470.1	<i>Aspergillus terreus</i> NIH2624
	Bf	CCD55484.1	<i>Botryotinia fuckeliana</i>
	Cg	XP_001228162.1	<i>Chaetomium globosum</i> CBS 148.51
	Ch	CCF43159.1	<i>Colletotrichum higginsianum</i>
	Ci	XM_001242382.1	<i>Coccidioides immitis</i> RS
	Cm	EGX93189.1	<i>Cordyceps militaris</i> CM01
	Cp	XM003069573.1	<i>Coccidioides posadasii</i> C735 delta SOWgp
	Gg	EFQ30009.1	<i>Glomerella graminicola</i> M1.001
	Gl	EHK98895.1	<i>Glarea lozoyensis</i> 74030
	Mac	EFY84375.1	<i>Metarhizium acridum</i> CQMa 102
	Man	EFY96871.1	<i>Metarhizium anisopliae</i> ARSEF 23
	Mo	XM_360623.1	<i>Magnaporthe oryzae</i> 70-15
	Nc	BK006474	<i>Neurospora crassa</i> OR74A
	Nd	102414 ³	<i>Neurospora discreta</i> 8579 mat A
	Nf	XM_001260425.1	<i>Neosartorya fischeri</i> NRRL 181
	Nh	XP_003051566.1	<i>Nectria haematococca</i> mpVI 77-13-4
	Nt	EGO56400.1	<i>Neurospora tetrasperma</i> FGSC 2508
	Pb	XM_002789947.1	<i>Paracoccidioides brasiliensis</i> Pb01
	Pd	EKV11485.1	<i>Penicillium digitatum</i> PHI26
	Pm	XM_002149363.1	<i>Penicillium marneffeii</i> ATCC 18224
	Sm	XP_003350666.1 ⁴	<i>Sordaria macrospora</i> k-hell
	Ss	XP_001597890.1	<i>Sclerotinia sclerotiorum</i> 1980
	Tre	EGR52832.1	<i>Trichoderma reesei</i> QM6a
	Tru	XM_003235041.1	<i>Trichophyton rubrum</i> CBS 118892
Ts	XM_002484729.1	<i>Talaromyces stipitatus</i> ATCC 10500	
Tve	XM_003019899.1	<i>Trichophyton verrucosum</i> HKI 0517	
Tvi	EHK24463.1	<i>Trichoderma virens</i> Gv29-8	
Ur	XM_002544541.1	<i>Uncinocarpus reesii</i> 1704	
SAD-5	Cg	XP_001227787.1	<i>Chaetomium globosum</i> CBS 148.51
	Mt	XP_003665043.1	<i>Myceliophthora thermophila</i> ATCC 42464
	Nc	BK006779	<i>Neurospora crassa</i> OR74A
	Nd	62731 ³	<i>Neurospora discreta</i> 8579 mat A
	Nt	EGO55361.1	<i>Neurospora tetrasperma</i> FGSC 2508
	Sm	XP_003344714.1	<i>Sordaria macrospora</i> k-hell
	Pa	XP_001905702.1	<i>Podospira anserina</i> S mat+
Tt	XP_003654540.1 ⁵	<i>Thielavia terrestris</i> NRRL 8126	

¹Abbreviations are used in Figures S1 and S2. ²GenBank accession numbers are listed unless otherwise stated. ³*N. discreta* database at DOE-JGI (<http://genome.jgi-psf.org/>). ⁴A putative intron was removed from its ORF. ⁵This sequence is incomplete.