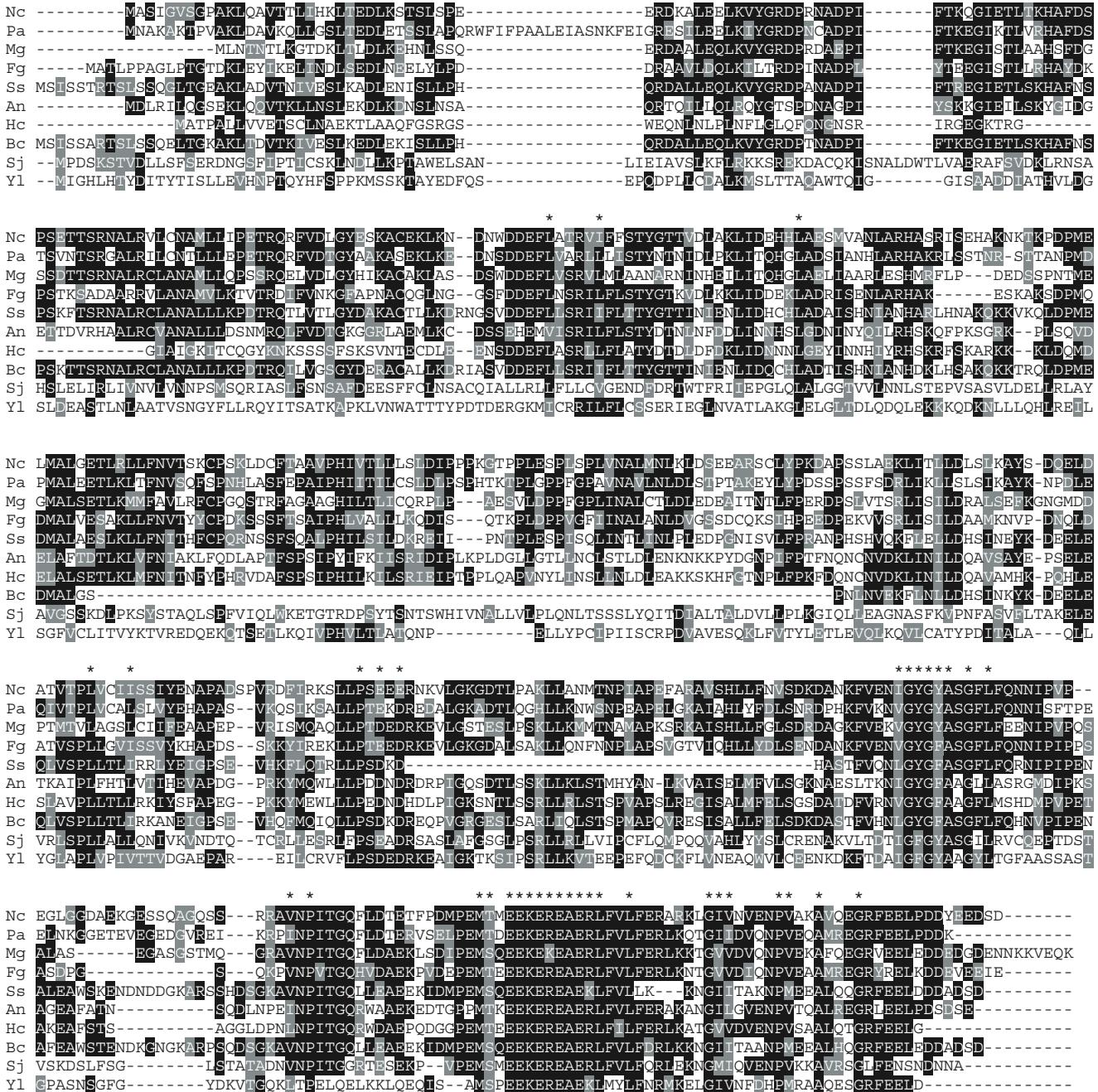


**Figure S1** *ric8* gene structure, mutant verification, and expression RIC8-GFP. A) The *ric8* genomic region from *Neurospora crassa*. Intron locations (black triangles) and restriction enzyme sites (black lines) are shown. B) Complementation of  $\Delta ric8$  by expression of a *ric8*-*gfp* allele. A VM plate culture is shown for wild-type (2489),  $\Delta ric8$  (R81a), and  $\Delta ric8$ , *ric8*-*gfp*<sup>+</sup> (R8GFP). C) RT-PCR analysis of *ric8* mRNA levels. Samples containing 2  $\mu$ g of total RNA isolated from conidia of strains used in (B), with a duplicate R81a reaction, were subjected to RT-PCR with primers designed to flank the first predicted intron of *ric8* (R81fw and R81rv, TABLE S1). The predicted intron size is 56 bp, making the size of the RT-PCR fragment about 354 bp. For the control and probe DNA, a 410 bp fragment of genomic DNA was amplified by PCR from plasmid pSM2 using the same primers. Expression of the 18S rRNA gene was assessed under identical RT-PCR conditions (See methods). D) Western analysis. Protein from a whole cell extract isolated from a 16 hr submerged culture of strain R8GFP was subjected to Western analysis using anti-GFP antiserum (See methods). The approximately 93 KDa protein is indicated by the black arrow.



**Figure S2** RIC8 homologs in other fungi. ClustalW (<http://www.ch.embnet.org/software/ClustalW.html>) was used to align RIC8 sequences from *Neurospora crassa* (Nc; NCU02788.3), *Podospora anserina* (Pa; Pa\_1\_3900), *Magnaporthe grisea* (Mg; MGG\_14008), *Fusarium graminearum* (Fg; FGSG\_01511), *Sclerotinia sclerotiorum* (Ss; SS1G\_02787.1), *Aspergillus nidulans* (An; AN1661.3), *Histoplasma capsulatum* (Hc; HCAG\_03335.1), *Botrytis cinerea* (Bc; BC1G\_02317.1), *Schizosaccharomyces japonicus* (Sj; SJAG\_02027), *Yarrowia lipolytica* (Yl; ACCESSION# XP\_505953). Shading indicates identical (black) and similar (grey) amino acid residues ([http://www.ch.embnet.org/software/BOX\\_form.html](http://www.ch.embnet.org/software/BOX_form.html)).

**Table S1** Oligonucleotides used in this study

Name	Sequence (5'-3')
R8 GFP fw	TATCTAGAACGGCCTCAATAGGAGTTCTGGGCCAGGTC
R8 GFP rv	GGGGATCCAGTCCGAATCCTCTCGTAGTCGTCGGG
R8I1fw	CACCATGGCCTCAATAGGAGTTCTGGG
R8I1rv	CAGTTGTCGTTTGAGCTTCGCAGGCC
R8YR11fw	GTAACGCCAGGGTTTCCCAGTCACGACCGCCTGAGATGTGTTATCGAGAG
R8YR11rv	CAGCTTATGAATGAGAGTGGTGACAGCTTGCAACTGGCTGCCAGAAACTCCTATTGAGG
R8YR12fw	CCAAGTTGCAAGCTGTCAACACTCTCATTATAAGCTGACCGAGGACCTCAAGAGCAC
R8YR12rv	GCGGATAACAATTACACAGGAAACAGCCGGCAAGACTGGAGGGTGCCTTGGGG
R8YR21fw	GTAACGCCAGGGTTTCCCAGTCACGACCCCTGCGGTCCGCATATAGTG
R8YR21rv	CAGGGTTCTAACATTAACGATTCCAGCTTCCTCGCCCTCTCAAACAAGACAAACAGTCTCTC
R8YR22fw	GGCGAGGAAGCTGGGAATCGTAATGTTGAGAACCCCTGTTGCCAAGGCAGGTTCAAGGAG
R8YR22rv	GCGGATAACAATTACACAGGAAACAGCCGGAGTCGTACCTCCGCGGAGGAAGGCC
R8Y2Hfw	AATTGAATTCATGGCCTCAATAGGAGTTCTGGG
R8Y2Hrv	AATTGGATCCTCAGTCCGAATCCTCTCGTAGTC
NA13G1fw	TTAACATATGGCCCGAACGAGGAGATTGAGAAC
NA13G1rv	TTAAAGATCTCAAATCAAACCGCAGAGACGCAGG
NA13G2fw	TTAACATATGGCCTCCGGTCGCGCAGCTAG
NA13G2rv	TTAAGGATCCTCACAGGATAAGTTGTTCAAGGTTCGCTGG
NA12G3fw	TTAACATATGGAGCAGAAGAAGAGGAGGCCAGAACATC
NA12G3rv	TTAAGGATCCTCATAGAATACCGGAGTCTTAAGGGCG
R8 NdeI fw	AATTCAATGGCCTCAATAGGAGTTCTGGC
R8 BamHI rv	AATTGGATCCTCAGTCCGAATCCTCTCGTAGTCG