

SUPPLEMENTARY TABLE I. Twenty-six species from different families or orders were examined for the presence or absence of KIN proteins. In some cases, homologs were not identified in a specific reference genome, and in those cases the predicted protein of the nearest relative was included in the SUPPLEMENTARY TABLES (for example, *Zymoseptoria tritici* and *Z. brevis* were used interchangeably). Taxonomy and nomenclature followed relationships outlined below and in FIG. 2 (see also <http://www.ncbi.nlm.nih.gov/taxonomy/?term=fungi>)

Phylum	Class	Order	Family	Species (abbreviation)	
Ascomycota	Sordariomycetes	Sordariales	Sordariaceae	<i>Neurospora crassa</i> (NEUCR)	
Peizizomycotina		Magnaporthales	Lasiochaeraceae	<i>Podospira anserina</i> (PODAN)	
			Magnaporthaceae	<i>Magnaporthe oryzae</i> (MAGO7)	
			Nectriaceae	<i>Fusarium graminearum</i> (GIBZE)	
			Hypocreaceae	<i>Trichoderma reesei</i> (TRIQM)	
		Leotiomycetes	Helotiales	Clavicipitaceae	<i>Metarhizium album</i> (META)
				Sclerotiniaceae	<i>Botryotinia fuckeliana</i> (BOTFB)
				Aspergillaceae	<i>Aspergillus nidulans</i> (ANIDU)
		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Talaromyces marneffeii</i> (TALMA)
				Arthrodermataceae	<i>Arthroderma benhamiae</i> (ARTBC)
				Ajellomycetaceae	<i>Histoplasma capsulatum</i> (HISTO)
				mitosporic Onygenales	<i>Coccidioides immitis</i> (COCIM)
				Capnodiales	<i>Zymoseptoria brevis</i> (ZYMBR)
				Pleosporales	<i>Leptosphaeria maculans</i> (LEPMJ)
		Pezizomycetes	Pezizales	Pyronemataceae	<i>Pyronema omphalodens</i> (PYROO)
Saccharomycotina	Saccharomycetes	Saccharomycetales	Debaryomycetaceae	<i>Candida albicans</i> (CANAW)	
			Saccharomycetaceae	<i>Saccharomyces cerevisiae</i> (SACCE)	
Taphrinomycotina		Schizosaccharomycetales	Schizosaccharomycetaceae	<i>Schizosaccharomyces pombe</i> (SCHPO)	
Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae	<i>Coprinopsis cinerea</i> (COPC7)	
			Cantharellales	Ceratobasidiaceae	<i>Rhizoctonia solani</i> (RHIZS)
		Tremellomycetes	Tremellales	Tremellaceae	<i>Cryptococcus neoformans</i> (CRYNJ)
		Ustilaginomycetes	Ustilaginales	Ustilaginaceae	<i>Ustilago maydis</i> (USTMA)
		Pucciniomycetes	Pucciniales	Pucciniaceae	<i>Puccinia graminis</i> (PUCGT)
Chytridiomycota	Chytridiomycetes	Rhizophydiales	Rhizophydiales i. s.	<i>Batrachochytrium dendrobatidis</i> (BATDE)	
“Cryptomycota”				<i>Rozella allomyis</i> (ROZAC)	
Microsporidia					
Apansporoblastina			Unikaryonidae	<i>Encephalitozoon cuniculi</i> (ENCUC)	