

Additional File 12. Fungal Protein Datasets used in phylogenomic analyses

Classification/Species	Lifestyle	URL	Reference ^a
Chytridiomycota			
<i>Batrachochytrium dendrobatidis</i> (JEL423)	animal pathogen	http://www.broad.mit.edu/annotation/genome/batrachochytrium_dendrobatidis/	
Zygomycota			
<i>Rhizopus oryzae</i> (RA99-880)	saprobe	http://www.broad.mit.edu/annotation/genome/rhizopus_oryzae/MultiHome.html	
<i>Phycomyces blakesleeianus</i> (NRRL1555)	saprobe	http://genome.jgi-psf.org/Phybl1/Phybl1.home.html	
Microsporidia			
<i>Encephalitozoon cuniculi</i> (GB-M1)	animal pathogen	http://www.genoscope.cns.fr/spip/Encephalitozoon-cuniculi-whole.html	[1]
Schizosaccharomycota			
<i>Schizosaccharomyces pombe</i> (972h)	saprobe	http://www.broad.mit.edu/annotation/genome/schizosaccharomyces_group/MultiHome.html	[2]
<i>Schizosaccharomyces japonicus</i> (yFS275)	saprobe	http://www.broad.mit.edu/annotation/genome/schizosaccharomyces_group/MultiHome.html	
Hemiascomycota			
<i>Ashbya gossypii</i> (ATCC 10895)	plant pathogen	Ashbya Genome Database: http://agd.vital-it.ch/index.html	[3]
<i>Candida albicans</i> (WO1)	animal pathogen	http://www.broad.mit.edu/annotation/genome/candida_group/MultiHome.html	[4]
<i>Candida glabrata</i> (CBS138)	animal pathogen	http://www.genolevures.org/cagl.html#	[5]
<i>Candida guilliermondii</i> (ATCC6260)	animal pathogen	http://www.broad.mit.edu/annotation/genome/candida_group/MultiHome.html	
<i>Candida lusitanae</i> (ATCC42720)	animal pathogen	http://www.broad.mit.edu/annotation/genome/candida_group/MultiHome.html	
<i>Candida tropicalis</i> (CBS94)	animal pathogen	http://www.broad.mit.edu/annotation/genome/candida_group/MultiHome.html	[6]
<i>Saccharomyces cerevisiae</i> (S288C)	saprobe	http://www.yeastgenome.org/	[7]
<i>Saccharomyces paradoxicus</i> (NRRLY-17217)	saprobe	Broad Institute, GenBank Accession AABZ000000000	[8]
<i>Saccharomyces bayanus</i> (MCYC623)	saprobe	Broad Institute, GenBank Accession AACAA000000000	[8]
<i>Saccharomyces mikatae</i> (IFO1815)	saprobe	Broad Institute, GenBank Accession AABZ000000000	[8]
<i>Debaryomyces hansenii</i> (CBS767)	saprobe	http://www.genolevures.org/deha.html#	[5]
<i>Kluyveromyces lactis</i> var. <i>lactis</i> (CLIB210)	saprobe	http://www.genolevures.org/klla.html#	[5]
<i>Yarrowia lipolytica</i> (CLIB99)	saprobe	http://www.genolevures.org/yali.html#	[5]

Euascomycota

<i>Aspergillus nidulans</i> (FGSC A4)	saprobe	http://www.broad.mit.edu/annotation/genome/aspergillus_group/MultiHome.html	[9]
<i>Aspergillus fumigatus</i> (Af293)	animal pathogen	CADRE: http://www.cadre-genomes.org.uk/aspergillus_links.html	[10]
<i>Magnaporthe oryzae</i> (70-15)	plant pathogen	http://www.broad.mit.edu/annotation/genome/magnaporthe_grisea/MultiHome.html	[11]
<i>Fusarium graminearum</i> (PH-1)	plant pathogen	http://www.broad.mit.edu/annotation/genome/fusarium_group/MultiHome.html	[12]
<i>Botrytis cinerea</i> (B05.10)	plant pathogen	http://www.broad.mit.edu/annotation/genome/botrytis_cinerea/	
<i>Coccidioides immitis</i> (RS)	animal pathogen	http://www.broad.mit.edu/annotation/genome/coccidioides_group/MultiHome.html	
<i>Cochliobolus heterostrophus</i> (C5)	plant pathogen	http://genome.jgi-psf.org/CocheC5_1/CocheC5_1.home.html	
<i>Neurospora crassa</i> (OR74A)	saprobe	http://www.broad.mit.edu/annotation/genome/neurospora/	[13]
<i>Podospira anserina</i> (DSM 980)	saprobe	http://podospira.igmors.u-psud.fr/	[14]
<i>Trichoderma reesii</i> (QM6a)	Mycoparasite	http://genome.jgi-psf.org/Trire2/Trire2.home.html	[15]

Basidiomycota:

<i>Coprinopsis cinerea</i> (Okayama 7#130)	saprobe	http://www.broad.mit.edu/annotation/genome/coprinus_cinereus/MultiHome.html	
<i>Cryptococcus neoformans</i> var. <i>grubii</i> (serotype A – H99)	animal pathogen	http://www.broad.mit.edu/annotation/genome/cryptococcus_neoformans/MultiHome.html	[16]
<i>Picia stipitis</i> (NRRL Y-11545)	saprobe	http://genome.jgi-psf.org/Picst3/Picst3.home.html	[17]
<i>Puccinia graminis</i> (CRL 75-36-700-3)	plant pathogen	http://www.broad.mit.edu/annotation/genome/puccinia_graminis/	
<i>Postia placenta</i> (Mad-698-R)	saprobe	http://genome.jgi-psf.org/Pospl1/Pospl1.home.html	
<i>Phanaerochaete chrysosporium</i> (RP78)	saprobe	http://genome.jgi-psf.org/Phchr1/Phchr1.home.html	[18]
<i>Laccaria bicolor</i> (S238N-H82)	saprobe	http://genome.jgi-psf.org/Lacbi1/Lacbi1.home.html	[19]
<i>Sporobolomyces roseus</i>	saprobe	http://genome.jgi-psf.org/Sporo1/Sporo1.home.html	
<i>Ustilago maydis</i> (521)	plant pathogen	http://www.broad.mit.edu/annotation/genome/ustilago_maydis/	[20]

^a Blank = unpublished

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