

Additional file 1. Rif1 homologues in different organisms

Organism	Common name	NCBI accession number
<i>Ajellomyces capsulatus</i> G186AR	Darling's disease fungus	EEH07350.1
<i>Ajellomyces dermatitidis</i> SLH14081	Tropical fungus	XP_002629282.1
<i>Arthroderma benhamiae</i> CBS 112371	fungus	XP_003015601.1
<i>Arthroderma gypseum</i> CBS 118893	fungus	XP_003169470.1
<i>Arthroderma otae</i> CBS 113480	fungus	XP_002849712.1
<i>Ashbya gossypii</i> ATCC 10895	fungus	NP_984675.1
<i>Aspergillus clavatus</i> NRRL 1	fungus	XP_001271779.1
<i>Aspergillus flavus</i> NRRL3357	fungus	XP_002376949.1
<i>Aspergillus fumigatus</i> Af293	fungus	XP_751941.1
<i>Aspergillus nidulans</i> FGSC A4	fungus	XP_659264.1
<i>Aspergillus niger</i> CBS 513.88	fungus	XP_001401739.1
<i>Aspergillus oryzae</i> RIB40	fungus	XP_001821189.2
<i>Aspergillus terreus</i> NIH2624	fungus	XP_001214475.1
<i>Botryotinia fuckeliana</i> B05.10	Fungus plant pathogen	XP_001561183.1
<i>Candida albicans</i> WO-1	fungus	EEQ42644.1
<i>Candida dubliniensis</i> CD36	fungus	XP_002417177.1
<i>Candida glabrata</i>	fungus	AAT67386.1
<i>Candida tropicalis</i> MYA-3404	fungus	XP_002550236.1
<i>Chaetomium globosum</i> CBS 148.51	Soil fungus	XP_001220993.1
<i>Clavispora lusitaniae</i> ATCC 42720	Candida lusitaniae	XP_002618754.1
<i>Coccidioides immitis</i> RS	fungus	XP_001241144.1
<i>Coccidioides posadasii</i> C735 delta SOWgp	fungus	XP_003065092.1
<i>Debaryomyces hansenii</i> CBS767	Salt tolerant yeasts	XP_002769956.1
<i>Gibberella zeae</i> PH-1	Fungus plant pathogen	XP_381686.1
<i>Glomerella graminicola</i> M1.001	fungus	EFQ27809.1
<i>Kluyveromyces lactis</i> NRRL Y-1140	yeast	XP_455136.1
<i>Lachancea thermotolerans</i>	yeast	XP_002556318.1
<i>Leptosphaeria maculans</i>	Fungus plant pathogen	CBY00494.1
<i>Lodderomyces elongisporus</i> NRRL YB-4239	yeast	XP_001526918.1
<i>Magnaporthe oryzae</i> 70-15	rice blast fungus	XP_362839.2
<i>Nectria haematococca</i> mpVI 77-13-4	Fungus pathogen	XP_003049857.1
<i>Neosartorya fischeri</i> NRRL 181	Fungus pathogen	XP_001267138.1
<i>Neurospora crassa</i> OR74A	Fungus	XP_963945.1
<i>Paracoccidioides brasiliensis</i> Pb01	pathogenic fungus	XP_002794700.1
<i>Penicillium chrysogenum</i> Wisconsin 54-1255	Fungus	XP_002562147.1
<i>Penicillium marneffei</i> ATCC 18224	Fungus	XP_002150486.1

<i>Phaeosphaeria nodorum</i> SN15	Glume blotch fungus	XP_001797000.1
<i>Pichia pastoris</i> GS115	methylophilic yeast	XP_002489801.1
<i>Podospira anserina</i> S mat+	Fungus	XP_001912591.1
<i>Pyrenophora teres</i> f. <i>teres</i> 0-1	Fungus plant pathogen	EFQ93104.1
<i>Pyrenophora tritici-repentis</i> Pt-1C-BFP	Fungus plant pathogen	XP_001931945.1
<i>Saccharomyces cerevisiae</i> S288c	Yeast	NP_009834.1
<i>Scheffersomyces stipitis</i> CBS 6054	Fungus	XP_001387854.2
<i>Schizosaccharomyces japonicus</i> yFS275	Fungus	XP_002172627.1
<i>Schizosaccharomyces pombe</i> 972h-	Fungus	NP_593910.2
<i>Sclerotinia sclerotiorum</i> 1980	Fungus plant pathogen	XP_001594372.1
<i>Sordaria macrospora</i>	fruit body Fungus	CBI56133.1
<i>Talaromyces stipitatus</i> ATCC 10500	fungus	XP_002483707.1
<i>Trichophyton verrucosum</i> HKI 0517	fungus	XP_003025698.1
<i>Tuber melanosporum</i> Mel28	fruit body Fungus	XP_002837628.1
<i>Uncinocarpus reesii</i> 1704	fungus	XP_002542972.1
<i>Vanderwaltozyma polyspora</i> DSM 70294	fungus	XP_001645061.1
<i>Verticillium albo-atrum</i> VaMs.102	Fungus plant pathogen	XP_003002595.1*
<i>Zygosaccharomyces rouxii</i>	yeast	XP_002495349.1
<i>Aedes aegypti</i>	yellow fever mosquito	XP_001653011.1
<i>Anopheles darlingi</i>	mosquito	EFR21139.1
<i>Anopheles gambiae</i> str. PEST	mosquito	XP_001230813.2
<i>Camponotus floridanus</i>	ant species	EFN73980.1
<i>Drosophila ananassae</i>	Fruitfly species	XP_001960452.1
<i>Drosophila erecta</i>	Fruitfly species	XP_001975459.1
<i>Drosophila grimshawi</i>	Fruitfly species	XP_001986289.1
<i>Drosophila melanogaster</i>	Fruitfly species	NP_725497.1
<i>Drosophila persimilis</i>	Fruitfly species	XP_002018287.1
<i>Drosophila pseudoobscura</i> <i>pseudoobscura</i>	Fruitfly species	XP_001361126.1
<i>Drosophila sechellia</i>	Fruitfly species	XP_002034026.1
<i>Drosophila simulans</i>	Fruitfly species	XP_002081674.1
<i>Drosophila virilis</i>	Fruitfly species	XP_002050586.1
<i>Drosophila willistoni</i>	Fruitfly species	XP_002061311.1
<i>Harpegnathos saltator</i>	Jerdon's jumping ant	EFN87937.1
<i>Nasonia vitripennis</i>	jewel wasps	XP_001605319.1
<i>Tribolium castaneum</i>	Red flour beetle	EFA10163.1
<i>Ixodes scapularis</i>	deer tick or blacklegged tick	XP_002406456.1
<i>Ailuropoda melanoleuca</i>	giant panda	EFB21675.1
<i>Bos taurus</i>	Cow	XP_615269.3
<i>Callithrix jacchus</i>	New World monkey	XP_002749499.1

<i>Danio rerio</i>	Zebrafish	CAQ15348.1
<i>Equus caballus</i>	Horse	XP_001491023.2
<i>Gallus gallus</i>	Chicken	XP_422162.2
<i>Homo sapiens</i>	Human	NP_060621.3
<i>Macaca mulatta</i>	monkey	XP_002808045.1
<i>Mus musculus</i>	Mouse	NP_780447.4
<i>Oryctolagus cuniculus</i>	European Rabbit	XP_002712208.1
<i>Pan troglodytes</i>	Chimp	XP_001137423.1
<i>Pongo abelii</i>	Sumatran Orangutan	XP_002812524.1
<i>Rattus norvegicus</i>	Rat	XP_215736.5
<i>Sus scrofa</i>	wild pig	XP_003133872.1
<i>Taeniopygia guttata</i>	Zebra Finch (bird)	XP_002188647.1
<i>Xenopus (Silurana) tropicalis</i>	Western clawed frog	XP_002936710.1
<i>Saccoglossus kowalevskii</i>	acorn worm (Hemi chordata)	XP_002739208.1*
<i>Selaginella moellendorffii</i>	Lycopodiophyta (vascular Plant)	XP_002967836.1*
<i>Trichoplax adhaerens</i>	Placozoa, basal group of multicellular animals	XP_002110766.1
<i>Hydra magnipapillata</i>	water polyp Cnidarian	XP_002154730.1