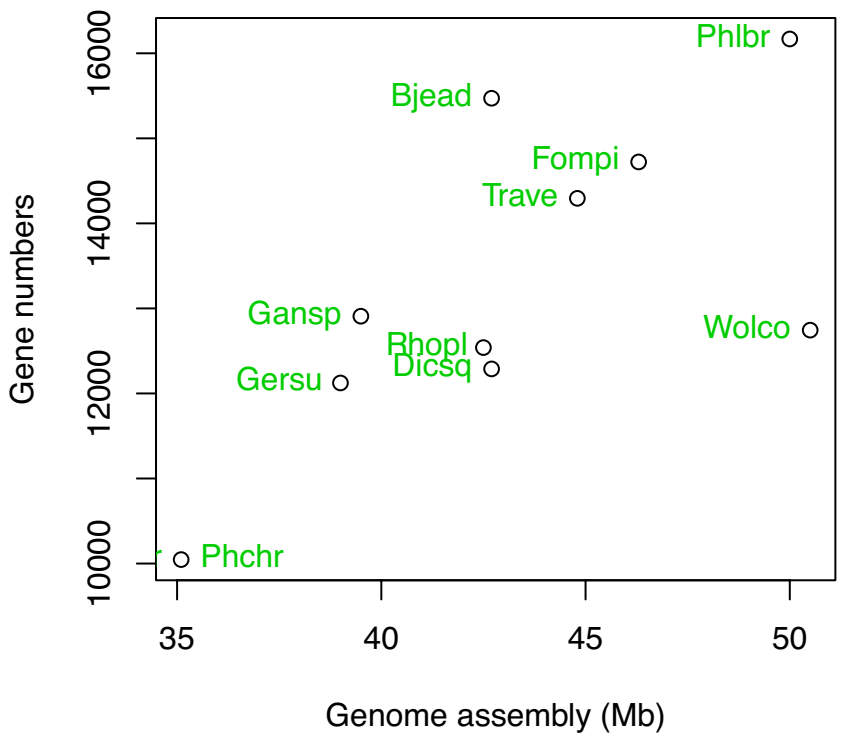
Supplementary files legends

SUPPLEMENTARY FIGURE 1. Correlation between genome size and gene numbers for 10 Polyporales genomes. (Bjead = *Bjekandera adusta;* Dicsq = *Dichomitus squalens;* Fompi = *Fomitopsis pinicola;* Gansp = *Ganoderma sp.;* Gersu = *Gelatoporia subversmispora;* Phchr = *Phanerochaete chrysosporium;* Phlbr = *Phlebia brevispora;* Rhopl = *Rhodonia placenta;* Trave = *Trametes versicolor;* Wolco = *Wolfiporia cocos*).


Phlbr
Bjead
Fompi
Trave
Gansp
Wolco
Rhopl
Dicsq
Gersu
Phchr
16000
14000
12000
10000
35
40
45
50
Gene numbers
Genome assembly (Mb)

Supplementary Table I. GenBank sequences used for the multilocus phylogenetic analyses

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Abortiporus biennis (Bull.) Singer			EU232235			
Abundisporus sclerosetosus Decock & Laurence	FJ393868	FJ411101				
Abundisporus violaceus (Wakef.) Ryvarden	FJ393867	FJ411100				
Amauroderma rugosum (Blume & T. Nees) Torrend	AB368061	AB509712			AB368119	
Amylocystis lapponica (Romell) Bondartsev & Singer ex Singer	AF518598		AF518570			
Antrodia albida (Fr.) Donk, Persoonia	EU232272	EU232189	EU232240		DQ491387	
Antrodia albobrunnea (Romell) Ryvarden	EU232299	EU232215	EU232257			
Antrodia alpina (Litsch.) Gilb. & Ryvarden	EU232282	EU232207	EU232240			
Antrodia carbonica (Overh.) Ryvarden & Gilb.	EU232285	EU232211	EU232243		AY218470	
Antrodia heteromorpha (Fr.) Donk	AY515350	DQ491415			DQ491388	
Antrodia juniperina (Murrill) Niemelä & Ryvarden	EU232295	EU232212	EU232253		DQ491389	
Antrodia malicola (Berk. & M.A. Curtis) Donk	EU232297	EU232214	EU232255			
Antrodia odora (Peck ex Sacc.) Gilb. & Ryvarden	EU232286	EU232194	EU232244			
Antrodia oleracea (R.W. Davidson & Lombard) Ryvarden	EU232291	EU232198	EU232244			
Antrodia radiculosa (Peck) Gilb. & Ryvarden	EU232292	EU232201	EU232250			
Antrodia serialis (Fr.) Donk			EU232251			
Antrodia sinuosa (Fr.) P. Karst.	EU232288	EU232196	EU232246			
Antrodia sordida Ryvarden & Gilb.	EU232289	EU232193	EU232247			
Antrodia taxa T.T. Chang & W.N. Chou	EU232276	EU232192	EU232234			
Antrodia vaillantii (DC.) Ryvarden	EU232271	EU232188	EU232229			
Antrodia variiformis (Peck) Donk	AY515344	DQ491418			DQ491391	

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Antrodia xantha (Fr.) Ryvarden	EU232284	DQ491424	EU232242		DQ491391	
Antrodiella americana Ryvarden & Gilb.	EU232270	EU232186	AY336781			
Antrodiella formosana T.T. Chang & W.N. Chou	EU232268	EU232184	EU232226			
Antrodiella liebmannii (Fr.) Ryvarden	EU232262	EU232178	EU232220			
Antrodiella pallasii Renvall, Johann. & Stenlid	EU232267	EU232183	EU232225			
Atraporiella neotropica Ryvarden	HQ659221	HQ659221				
Aurantiopileus mayanensis Ginns, D.L. Lindner & T.J. Baroni	HM772139	HM772140				
Auriporia aurea (Peck) Ryvarden	AF287846		AF334903		AY218471	
Bjerkandera adusta (Willd.) P. Karst.	AF287848	AY787666	DQ060085	genomic	genomic	genomic
Buglossoporus pulvinus (Pers.) Donk					DQ491392	
Bulbillomyces farinosus (Bres.) Jülich	DQ681201	DQ681201				
Byssomerulius corium (Pers.) Parmasto	AY586640					
Candelabrochaete africana Boidin	AF518604		AF518573			
Candelabrochaete septocystidia (Burt) Burds.	EU118609	EU118609				
Ceraceomyces eludens K.H. Larss.	AF090880					
Ceraceomyces microsporus K.H. Larss.	AF090873					
Ceraceomyces serpens (Tode) Ginns	AF090882					
Ceraceomyces sulphurinus (P. Karst.) J. Erikss. & Ryvarden	GU187610					
Ceraceomyces violascens (Fr.) Jülich	EU118612					
Ceriporia lacerata N. Maek., Suhara & R. Kondo	JN641759	JN641761	JN618335			
Ceriporia purpurea (Fr.) Donk	AF287852		AF026594		AY218476	
Ceriporia reticulata (Hoffm.) Domanski			AB084587			
Ceriporia tarda (Berk.) Ginns	GQ470632					

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Ceriporia viridans (Berk. & Broome) Donk	AF393049		AF334905			
Ceriporiopsis aneirina (Sommerf.) Domanski	EU368503	EU340895				
Ceriporiopsis balaenae Niemelä	FJ496718	FJ496668				
Ceriporiopsis consobrina (Bres.) Ryvarden	FJ496716	FJ496667				
Ceriporiopsis gilvescens (Bres.) Domanski	FJ496720	FJ496684				
Ceriporiopsis guidella Bernicchia & Ryvarden	FJ496722	FJ496687				
Ceriporiopsis jelicii (Tortic & A. David) Ryvarden & Gilb.	FJ496727	FJ496690				
Ceriporiopsis resinascens (Romell) Domanski	FJ496703	FJ496679				
Ceriporiopsis rivulosa (Berk. & M.A. Curtis) Gilb. & Ryvarden	FJ496710	FJ496693				
Ceriporiopsis subrufa (Ellis & Dearn.) Ginns	FJ496724	FJ496662				
Cerrena aurantiopora J.S. Lee & Y.W. Lim	FJ821521	FJ821532			FJ821546	
Cerrena consors (Berk.) K.S. Ko & H.S. Jung	FJ821517	FJ821528			FJ821543	
Cinereomyces lindbladii (Berk.) Jülich	AY333814	HQ659223	AY336768			
Climacodon septentrionalis (Fr.) P. Karst.	AY684165	AY854082		AY864872	AY780941	AY885151
Coriolopsis aspera (Jungh.) Teng	AY351956					
Coriolopsis cf. *byrsina* (Mont.) Ryvarden	JN164788	JN165001		JN164838	JN164871	JN164879
Coriolopsis cf. *caperata* (Berk.) Murrill	JN164789	JN164999		JN164837	JN164870	JN164880
Coriolopsis gallica (Fr.) Ryvarden	JN164814	JN165013		JN164821	JN164869	
Coriolopsis sanguinaria (Klotzsch) Teng	AY351950					
*Coriolopsis trogii (*Berk.) Domanski	JN164808	JN164993		JN164820	JN164867	JN164898
Cryptoporus volvatus (Peck) Shear	AF393050		AF334907		AY218479	
Dacryobolus sudans (Alb. & Schwein.) Fr.	AY293176		AY293127			
Daedalea dickinsii Yasuda	EU024963	FJ810167				

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Daedalea quercina (L.) Pers.			AF026600			
Daedaleopsis confragosa (Bolton) J. Schröt.	AB368062	GU731549	AF334908		AB368120	
Datronia mollis (Sommerf.) Donk	JN164791	JN165002	AF334909	JN164818	JN164872	JN164901
Datronia scutellata (Schwein.) Gilb. & Ryvarden	JN164792	JN165004		JN164817	JN164873	JN164902
Dentocorticium sulphurellum (Peck) M.J. Larsen & Gilb.	JN164815	JN165015		JN164841	JN164875	JN164903
Dichomitus campestris (Quél.) Domanski & Orlicz	AJ487512					
Dichomitus gunnii D.A. Reid	AJ487513					
Dichomitus squalens (P. Karst.) D.A. Reid	AJ487514	AM988624		genomic	genomic	genomic
Diplomitoporus crustulinus (Bres.) Domanski	AY333815	AF343320	AY336769			
Diplomitoporus flavescens (Bres.) Domanski	GU566006					
Diplomitoporus overholtsii (Pilát) Gilb. & Ryvarden	AY333813		AY336767			
Donkioporia expansa (Desm.) Kotl. & Pouzar	HM536052		HM536053		HM536102	HM536103
Earliella scabrosa (Pers.) Gilb. & Ryvarden	JN164793	JN165009	AY336766	JN164819	JN164866	JN164894
Echinochaete brachypora (Mont.) Ryvarden	AB462309	AB462321				
Echinochaete maximipora Sotome & T. Hatt.	AB462302	AB462314				
Echinochaete ruficeps (Berk. & Broome) Ryvarden	AB368066				AB368124	
Echinochaete russiceps (Berk. & Broome) D.A. Reid	AB462306	AB462318				
Epithele macarangae Boidin & Lanq.	DQ679923		DQ440638			
Epithele typhae (Pers.) Pat.	DQ457665	DQ486701				
Fomes fomentarius (L.) Fr.			AF026574			
Fomitella rhodophaea (Lév.) T. Hatt.	EU232300	EU232216	EU232258			
Fomitopsis africana Mossebo & Ryvarden					DQ491395	
Fomitopsis cajanderi (P. Karst.) Kotl. & Pouzar					DQ491372	

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Fomitopsis cupreorosea (Berk.) J. Carranza & Gilb.	AY515325	DQ491400			DQ491373	
Fomitopsis dochmia (Berk. & Broome) Ryvarden	AY515326	DQ491401			DQ491374	
Fomitopsis feei (Fr.) Kreisel	AY515327	DQ491402			DQ491375	
Fomitopsis lilacinogilva (Berk.) J.E. Wright & J.R. Deschamps	AY515329	DQ491403			DQ491376	
Fomitopsis meliae (Underw.) Gilb.					DQ491394	
Fomitopsis officinalis (Batsch) Bondartsev & Singer	EU854447	EU854441				
Fomitopsis ostreiformis (Berk.) T. Hatt.	FJ372706	FJ372684				
Fomitopsis palustris (Berk. & M.A. Curtis) Gilb. & Ryvarden	AY515333	DQ491404			DQ491377	
Fomitopsis pinicola (Sw.) P. Karst.	AY684164	AY854083	AY705967	genomic	genomic	genomic
Fomitopsis rosea (Alb. & Schwein.) P. Karst.	AY333808	DQ491410	AY336764		DQ491383	
Fomitopsis spraguei (Berk. & M.A. Curtis) Gilb. & Ryvarden	AY515335	DQ491406			DQ491379	
Ganoderma australe (Fr.) Pat.	AY333807		AY336763			
Ganoderma lucidum (Curtis) P. Karst.	AB368068	EU021460	HQ697340		AB368126	
Ganoderma sp.				genomic	genomic	genomic
Ganoderma tsugae Murrill	AY684163	DQ206985	AY705969		DQ408116	DQ059048
Gelatoporia pannocincta (Romell) Niemelä	AF141612	AY219361				
Gelatoporia subvermispora (Pilát) Niemelä	FJ496707			genomic	genomic	genomic
Gloeoporus dichrous (Fr.) Bres.	DQ679919	EU546097				
Grammothele fuligo (Berk. & Broome) Ryvarden	AJ406506	GQ355956				
Grifola frondosa (Dicks.) Gray	AY629318	AY854084		AY864876		AY885153
Grifola sordulenta (Mont.) Singer	AY645050	AY854085		AY864877	AY786058	AY885154

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Hapalopilus rutilans (Pers.) Murrill	AY293184		AY293133			
Heterobasidion annosum (Fr.) Bref.	AF287866	JF440572	AF026576	genomic	genomic	genomic
Hexagonia apiaria (Pers.) Fr.	AY351945					
Hexagonia hirta (P. Beauv.) Fr.	AY351944		AY336759			
Hexagonia hydnoides (Sw.) M. Fidalgo	AY351942					
Hexagonia pobeguinii Har.	AY333801					
Hexagonia tenuis (Hook.) Fr.	AY351935					
Hyphoderma cremeoalbum (Höhn. & Litsch.) Jülich	DQ677492	DQ677492				
Hyphoderma definitum (H.S. Jacks.) Donk	DQ677493	DQ677493				
Hyphoderma heterocystidiatum (Burt) Donk	DQ677495	DQ677495				
Hyphoderma incrustatum K.H. Larss.	AY586668					
Hyphoderma litschaueri (Burt) J. Erikss. & Å. Strid	DQ677496	DQ677496				
Hyphoderma medioburiense (Burt) Donk	DQ677497	DQ677497				
Hyphoderma mutatum (Peck) Donk	DQ677498	DQ677498				
Hyphoderma nemorale K.H. Larss.	AY586669					
Hyphoderma obtusum J. Erikss.	AY586670					
Hyphoderma occidentale (D.P. Rogers) Boidin & Gilles	DQ677499	DQ677499				
Hyphoderma roseocremeum (Bres.) Donk	AY586672					
Hyphoderma setigerum (Fr.) Donk	AY586673	GQ409531				
Hyphodermella corrugata (Fr.) J. Erikss. & Ryvarden	GQ470635	FN600372				
Hypochnicium cremicolor (Bres.) H. Nilsson & Hallenb.	DQ677506	DQ677506				
Hypochnicium eichleri (Bres. ex Sacc. & P. Syd.) J. Erikss. & Ryvarden	FJ471542					

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Hypochnicium erikssonii Hallenb. & Hjortstam	DQ677508	DQ677508				
Hypochnicium geogenium (Bres.) J. Erikss.	JN939576	AF429426	JN940193			
Hypochnicium karstenii (Bres.) Hallenb.	DQ677510	DQ677510				
Hypochnicium michelii Tellería, M. Dueñas, Melo & M.P. Martín	JN939579	FN552535				
Hypochnicium polonense (Bres.) Å. Strid	EU118635	EU118635				
Hypochnicium wakefieldiae (Bres.) J. Erikss.	JN939578	FN552533				
Ischnoderma resinosum (Schrad.) P. Karst.	AJ487927	GU731564				
Junghuhnia nitida (Pers.) Ryvarden	EU118638	EU118638				
Laetiporus cincinnatus (Morgan) Burds.	EU402521	EU402557				AB472661
Laetiporus conifericola Burds. & Banik	EU402524	EU402577				AB472664
Laetiporus gilbertsonii Burds.	EU402527	EU402549				AB472666
Laetiporus huroniensis Burds. & Banik	EU402540	EU402571				AB472670
Laetiporus montanus Cerný ex Tomsovský & Jankovský	EU884419	EU840558				
Laetiporus persicinus (Berk. & M.A. Curtis) Gilb.	EU402513	EU402579				
Laetiporus sulphureus (Bull.) Murrill	AY684162	DQ221108	AY705966		DQ408118	
Lentinus bertieri (Fr.) Fr.	AY615986	GU207302				
Lentinus crinitus (L.) Fr.	AY615979	GU207291				
Lentinus squarrosulus Mont.	AB368071	GU001951			AB368129	
Lentinus suavissimus Fr.	AY615970					
Lentinus swartzii Berk.	AY615983	GU207276				
Lentinus tigrinus (Bull.) Fr.	AB368072	AF516520	AF026571		AB368130	
Leptoporus mollis (Pers.) Quél.	EU402510	EU402584				
Lignosus hainanensis B.K. Cui	GU580885	GU580883				

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Lignosus rhinocerus (Cooke) Ryvarden	AB368074	FJ380871			AB368132	
Lopharia cinerascens (Schwein.) G. Cunn.	JN164813	JN165019			JN164874	JN164900
Megasporoporia cavernulosa (Berk.) Ryvarden	AY333800		AY336757			
Megasporoporia setulosa (Henn.) Rajchenb.	GU566007					
Melanoporia nigra (Berk.) Murrill					DQ491393	
Meripilus giganteus (Pers.) P. Karst.	AF287874		AF026568		AY218496	
Microporus affinis (Blume & T. Nees) Kuntze	AY351931					
Microporus vernicipes (Berk.) Imazeki	AY351929	AB531465				
Microporus xanthopus (Fr.) Kuntze	AB368075	AJ698132	AY336756		AB368133	
Mycoacia aurea (Fr.) J. Erikss. & Ryvarden	AY586691					
Mycoaciella bispora (Stalpers) J. Erikss. & Ryvarden	AY586692					
Mycobonia flava (Berk.) Pat.	AJ487933	AY513570				
Neolentiporus maculatissimus (Lloyd) Rajchenb.	AF518632				AY218497	
Obba valdiviana (Rajchenb.) Miettinen & Rajchenb.	HQ659235	HQ659235				
Oligoporus lacteus (Fr.) Gilb. & Ryvarden	AY293205		AY293152		AY218510	
Oligoporus rennyi (Berk. & Broome) Donk			AF334922			
Panus ciliatus (Lév.) T.W. May & A.E. Wood	AY616006					
Panus conchatus (Bull.) Fr.	AY616003					
Panus fasciatus (Berk.) Singer	EU908180					
Panus fulvus (Berk.) Pegler & R.W. Rayner	AY615996					
Panus lecomtei (Fr.) Corner	AY615995					
Panus rudis Fr.	AF287878		AF026569			
Panus similis (Berk. & Broome) T.W. May & A.E. Wood	AY616000					

Taxon	nLSU	ITS (5.8S)	nSSU	RPB1	RPB2	TEF1
Panus strigellus (Berk.) Overh.	AY616002					
Panus velutinus (Fr.) Fr.	GQ487335					
Parmastomyces transmutans (Overh.) Ryvarden & Gilb.	AF518635		AY293143			
Perenniporia corticola (Corner) Decock	HQ654108	HQ654094				
Perenniporia cystidiata Y.C. Dai, W.N. Chou & Sheng H. Wu	HQ654113					
Perenniporia detrita (Berk.) Ryvarden	FJ393866	FJ411099				
Perenniporia fraxinea (Bull.) Ryvarden	HQ654110	HQ654095				
Perenniporia japonica (Yasuda) T. Hatt. & Ryvarden	HQ654111	HQ654097				
Perenniporia medullapanis (Jacq.) Donk			AF334924			
Perenniporia minor Y.C. Dai & Xiong	HQ654115	HQ848475				
Perenniporia ochroleuca (Berk.) Ryvarden	FJ393864	FJ411097				
Perenniporia ohiensis (Berk.) Ryvarden	FJ393863	FJ411096				
Perenniporia rhizomorpha B.K. Cui, Y.C. Dai & Decock	HQ654117	HQ654107				
Perenniporia subacida (Peck) Donk	FJ393880	FJ411103				
Perenniporiella chaquenia Robledo & Decock	FJ393856	FJ411084				HM467610
Perenniporiella micropora (Ryvarden) Decock & Ryvarden	FJ393858	FJ411086				HM467608
Perenniporiella neofulva (Lloyd) Decock & Ryvarden	FJ393852	FJ411080				HM467599
Perenniporiella pendula Decock & Ryvarden	J393854	FJ411082				HM467600
Perenniporiella tepeitensis (Murrill) Decock & Valenzuela	HM467594	HM467589				HM467603
Phaeolus schweinitzii (Fr.) Pat.	AY629319		AY705961		DQ408119	DQ028602
Phanerochaete aculeata Hallenb.	GQ470636					
Phanerochaete angustocystidiata Sheng H. Wu	GQ470637					
Phanerochaete argillacea Sheng H. Wu	GQ470656					

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Phanerochaete brunnea Sheng H. Wu	GQ470657					
Phanerochaete brunneocystidiata Sheng H. Wu	GQ470639					
Phanerochaete calotricha (P. Karst.) J. Erikss. & Ryvarden	FJ471565	EU047803				
Phanerochaete canolutea Sheng H. Wu	GQ470641					
Phanerochaete carnosa (Burt) Parmasto	GQ470642					
Phanerochaete chrysosporium Burds.	AF287883	AY854086		genomic	genomic	genomic
Phanerochaete crassa (Lév.) Burds.	GQ470634					
Phanerochaete deflectens (P. Karst.) Hjortstam	GQ470644					
Phanerochaete flavidoalba (Cooke) S.S. Rattan	GQ470667					
Phanerochaete ginnsii Sheng H. Wu	GQ470645					
Phanerochaete intertexta Sheng H. Wu	GQ470646					
Phanerochaete lamprocystidiata Sheng H. Wu	GQ470648					
Phanerochaete laxa Sheng H. Wu	GQ470649					
Phanerochaete leptoderma Sheng H. Wu	GQ470650					
Phanerochaete lutea (Sheng H. Wu) Hjortstam	GQ470651					
Phanerochaete odontoidea Sheng H. Wu	GQ470652					
Phanerochaete parmastoi Sheng H. Wu	GQ470654					
Phanerochaete sanguinea (Fr.) Pouzar	GQ470655					
Phanerochaete sordida (P. Karst.) J. Erikss. & Ryvarden	GQ470658					
Phanerochaete stereoides Sheng H. Wu	GQ470661					
Phanerochaete subglobosa Sheng H. Wu	GQ470662					
Phanerochaete subodontoidea Sheng H. Wu	GQ470664					
Phanerochaete taiwaniana Sheng H. Wu	GQ470666					

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Phanerochaete tropica (Sheng H. Wu) Hjortstam	GQ470672					
Phanerochaete tuberculata (P. Karst.) Parmasto	GQ470669					
Phanerochaete velutina (DC.) P. Karst.	DQ679917					
Phlebia acerina Peck	AF141615	AF141615				
Phlebia albomellea (Bondartsev) Nakasone	AY293198		AY293144			
Phlebia bresadolae Parmasto	AF141617	AF141617				
Phlebia brevispora Nakasone				genomic	genomic	genomic
Phlebia centrifuga P. Karst.	AF141618	AF141618				
Phlebia chrysocreas (Berk. & M.A. Curtis) Burds.	AY586695	HQ153411	AY293145			
Phlebia deflectens (P. Karst.) Ryvarden	AF141619	AF141619				
Phlebia lilascens (Bourdot) J. Erikss. & Hjortstam	AF141622	AF141622				
Phlebia livida (Pers.) Bres.	AF141624	AF141624				
Phlebia nitidula (P. Karst.) Ryvarden	EU118655	EU118655				
Phlebia nothofagi (G. Cunn.) Nakasone	GU226430					
Phlebia queletii (Bourdot & Galzin) M.P. Christ.	AF141626	AF141626				
Phlebia radiata Fr.	AF287885	AY854087		AY864881	AY218502	AY885156
Phlebia rufa (Pers.) M.P. Christ.	AF141628	AF141628				
Phlebia setulosa (Berk. & M.A. Curtis) Nakasone	GU461311	GU46131				
Phlebia subserialis (Bourdot & Galzin) Donk	AF141631	AF141631				
Phlebia uda (Fr.) Nakasone	AF141614	AF141614				
Phlebiopsis flavidoalba (Cooke) Hjortstam	EU118662	EU118662				
Phlebiopsis himalayensis Dhingra	GQ470673					
Phlebiopsis roumeguerii (Bres.) Jülich & Stalpers	GQ470675					

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Physisporinus vitreus (Pers.) P. Karst.	FJ496726	JN182920				
Piptoporus portentosus (Berk.) G. Cunn.	AY515353					
Podoscypha multizonata (Berk. & Broome) Pat.	EU118663	EU118663				
Podoscypha parvula (Lloyd) D.A. Reid	AF261534					
Podoscypha petalodes (Berk.) Pat.	AF518639		AY293149			
Polyporus alveolaris (DC.) Bondartsev & Singer	AB368079	AB587624			AB368136	
Polyporus arcularius (Batsch) Fr.	AB368081	AF516523	AF334928		AB368138	
Polyporus badius (Pers.) Schwein.	AB368083	AB587625			AB368140	
Polyporus brumalis (Pers.) Fr.	AB368084	FJ596883			AB368141	
Polyporus ciliatus Fr.	AJ487943	AB070882				
Polyporus craterellus Berk. & M.A. Curtis	AJ487944					
Polyporus dictyopus Mont.	AB368086				AB368143	
Polyporus grammocephalus Berk.	AB368090	AB587627			AB368148	
Polyporus guianensis Mont.	AJ487947	AF516564				
Polyporus leprieurii Mont.	AJ487949	AF516567			AB368150	
Polyporus melanopus (Pers.) Fr.	AF261545	AF518759	AF334929		AY218507	
Polyporus meridionalis (A. David) H. Jahn	AJ487952					
Polyporus pseudobetulinus (Murashk. ex Pilát) Thorn, Kotir. & Niemelä	AB587639	AB587644				
Polyporus radicatus Schwein.	AJ487956					
Polyporus rhizophilus Pat.	AJ487957					
Polyporus squamosus (Huds.) Fr.	AY629320	DQ267123	AY705963	DQ831023	DQ408120	DQ028601
Polyporus subvarius C.J. Yu & Y.C. Dai	AB587638	AF516585				

Taxon	nLSU	ITS (5.8S)	nSSU	RPB1	RPB2	TEF1
Polyporus tenuiculus (P. Beauv.) Fr.	AB368099				AB368156	
Polyporus tricholoma Mont.	AB368100	AF516555			AB368157	
Polyporus tubaeformis (P. Karst.) Ryvarden & Gilb.	AB368101	AB587634			AB368158	
Polyporus tuberaster (Jacq. ex Pers.) Fr.	AF261544	AY218420	AF334930		AB368162	
Polyporus udus Jungh.	AB368108	AF518756			AB368165	
Polyporus umbellatus (Pers.) Fr. :354	AB368109	EU442276			AB368166	
Polyporus varius (Pers.) Fr.	AB368112				AB368169	
Polyporus virgatus Berk. & M.A. Curtis	AJ488122	AF516581				
Porostereum spadiceum (Pers.) Hjortstam & Ryvarden	DQ679918					
Postia caesia (Schrad.) P. Karst.	AB569119					
Postia japonica Y.C. Dai & T. Hatt.	AB569122					
Postia leucomallella (Murrill) Jülich	AF393072		AF334932			
Postia stellifera T. Hatt. & Sotome	AB569123					
Pseudofavolus cucullatus (Mont.) Pat.	AB368114	AF516601			AB368170	
Pseudolagarobasidium acaciicola Ginns	EU569321					
Pseudolagarobasidium calcareum (Cooke & Massee) Sheng H. Wu	EU569320					
Pseudolagarobasidium subvinosum (Berk. & Broome) Sheng H. Wu	EU569319					
Pulcherricium caeruleum (Lam.) Parmasto	GQ470677		AF334933			
Pyrofomes demidoffii (Lév.) Kotl. & Pouzar	FJ393873	FJ411105				
Radulodon americanus Ryvarden	EU569322					
Radulodon erikssonii Ryvarden	EU569325					
Rhizochaete americana (Nakasone, C.R. Bergman & Burds.) Gresl.,	AY219391	AY219391	AY219396			

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Nakasone & Rajchenb.						
Rhizochaete brunnea Gresl., Nakasone & Rajchenb.	AY219389	AY219389	AY219395			
Rhizochaete filamentosa (Berk. & M.A. Curtis) Gresl., Nakasone & Rajchenb.	AY219393	AY219393	AY219398			
Rhizochaete fouquieriae (Nakasone & Gilb.) Gresl., Nakasone & Rajchenb.	AY219390	AY219390	AY219397			
Rhizochaete radicata (Henn.) Gresl., Nakasone & Rajchenb.	AY219392	AY219392	AY219399			
Rhodonia placenta (Fr.) Niemelä, K.H. Larss. & Schigel				genomic	genomic	genomic
Rigidoporus microporus (Sw.) Overeem	AY333795					
Rigidoporus vinctus (Berk.) Ryvarden	AY333794		AY336752			
Scopuloides hydnoides (Cooke & Massee) Hjortstam & Ryvarden	EU118665	EU118665				
Scopuloides rimosa (Cooke) Jülich	GQ470676					
Sebipora aquosa Miettinen	HQ659240	HQ659240				
Skeletocutis amorpha (Fr.) Kotl. & Pouzar	AY293214	FN907913				
Skeletocutis chrysella Niemelä	FN907916	FN907916				
Sparassis brevipes Krombh.	AY218403	AY218441	AY218381		AY218543	
Sparassis crispa (Wulfen) Fr.	AY629321	DQ250597	AY705962		DQ408122	DQ056289
Sparassis cystidiosa Desjardin & Zheng Wang	AY256890	AY256891			AY256892	
Sparassis radicata Weir	AY218410	AY218449			AY218546	
Sparassis spathulata (Schwein.) Fr.	AY218392	AY218429	AY218378		AY218536	
Sparsitubus nelumbiformis L.W. Hsu & J.D. Zhao	DQ887631					
Spongipellis delectans (Peck) Murrill	HQ729008	HQ728299				
Spongipellis litschaueri Lohwag	HQ729015	HQ728307				

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Spongipellis pachyodon (Pers.) Kotl. & Pouzar	AY629322	DQ249277	DQ457638		DQ408123	DQ028599
Spongipellis spumeus (Sowerby) Pat.	HQ729021	HQ728287				
Spongipellis unicolor (Schwein.) Murrill	HQ729011	HQ728313				
Steccherinum fimbriatum (Pers.) J. Erikss.	EU118668	EU118668	AF518590			
Steccherinum robustius (J. Erikss. & S. Lundell) J. Erikss.	EU118671	EU118671				
Stereum hirsutum (Willd.) Pers.	AF393078	AY854063	AF026588	genomic	genomic	genomic
Taiwanofungus camphoratus (M. Zang & C.H. Su) Sheng H. Wu, Z.H. Yu, Y.C. Dai & C.H. Su	EU232281	EU232205	EU232239			
Taiwanofungus salmoneus (T.T. Chang & W.N. Chou) Sheng H. Wu, Z.H. Yu, Y.C. Dai & C.H. Su	EU232279	EU232203	EU232237			
Trametes aff maxima	JN164802	JN164933		JN164836	JN164863	JN164884
Trametes betulina (L.) Pilát	JN164794	JN164983		JN164822	JN164860	JN164895
Trametes cinnabarina (Jacq.) Fr.	AY684160	DQ411525		JN164843	DQ408121	DQ02860
Trametes conchifer (Schwein.) Pilát	JN164797	JN164924	JF972593	JN164823	JN164849	JN164887
Trametes cubensis (Mont.) Sacc.	JN164798	JN164923		JN164834	JN164865	JN164883
Trametes ectypa (Berk. & M.A. Curtis) Gilb. & Ryvarden	JN164803	JN164929		JN164824	JN164848	JN164888
Trametes elegans (Spreng.) Fr.	JN164799	JN164944		JN164833	JN164861	JN164899
Trametes gibbosa (Pers.) Fr.	JN164800	JN164943		JN164831	JN164859	JN164896
Trametes hirsuta (Wulfen) Lloyd	JN164801	JN164941	JF972590	JN164829	JN164854	JN164891
Trametes junipericola Manjón, G. Moreno & Ryvarden	AY855915	AY684171				
Trametes ljubarskii Pilát	AY855911	AY684174				
Trametes maxima (Mont.) A. David & Rajchenb.	JN164804	JN164957		JN164816	JN164864	JN164885
Trametes membranacea (Sw.) Kreisel	JN164805	JN164945		JN164832	JN164857	JN164893

Taxon	**nLSU**	**ITS (5.8S)**	**nSSU**	**RPB1**	**RPB2**	**TEF1**
Trametes ochracea (Pers.) Gilb. & Ryvarden	JN164812	JN164954		JN164826	JN164852	JN164904
Trametes pavonia (Berk.) Fr.	JN164806	JN164958		JN164835	JN164862	JN164886
Trametes pocas (Berk.) Ryvarden	AY351919					
Trametes polyzona (Pers.) Justo	JN164790	JN164978		JN164844& JN164846	JN164856	JN164881
Trametes pubescens (Schumach.) Pilát	JN164811	JN164963		JN164827	JN164851	JN164889
Trametes punicea Fr.	FJ372708	FJ372686				
Trametes sanguinea (L.) Lloyd	JN164795	JN164982		JN164842	JN164858	JN164897
Trametes suaveolens (L.) Fr.	JN164807	JN164966	AF026572	JN164828	JN164853	JN164890
Trametes versicolor (L.) Lloyd	JN164809	JN164919	AY705965	genomic	genomic	genomic
Trametes villosa (Sw.) Kreisel	JN164810	JN164969		JN164830	JN164855	JN164892
Trametopsis cervina (Schwein.) Tomsovský	JN164796	JN165020		JN164839	JN164877	JN164882
Tyromyces chioneus (Fr.) P. Karst.	AF393080	AY636061	AF334938			
Tyromyces fissilis (Berk. & M.A. Curtis) Donk	HQ729002	HQ728292				
Vanderbylia vicina (Lloyd) D.A. Reid	FJ393862	FJ411095				
Wolfiporia cocos (F.A. Wolf) Ryvarden & Gilb.	EU402519	AY72827		genomic	genomic	genomic
Wolfiporia dilatohypha Ryvarden & Gilb.	EU402517	EU402556				
Xanthoporus syringae (Parmasto) Audet	AY684166	AY789078	AY707091	AY788846	AY780935	DQ059049

Supplementary Table II. New sequences generated during this study

Taxon	**Voucher (Herbarium)**	**nLSU & 5.8S**	**RPB2**	**TEF1**
Abortiporus biennis (Bull.) Singer	EL 65/03 (GB)	JN649325	JX109864	JX109892
Antrodia serialis (Fr.) Donk	KHL 12010 (GB)	JX109844	JX109870	JX109898
Antrodiella semisupina (Berk. & M.A. Curtis) Ryvarden	KHL 11977 (GB)	JX109842	JX109868	JX109896
Ceriporia reticulata (Hoffm.) Domanski	KHL 11981 (GB)	JX109845	JX109871	JX109899
Cerrena unicolor (Bull.) Murrill	K.H. Larsson s.n.(GB)	JQ031127	JX109863	JX109891
Climacocystis borealis (Fr.) Kotl. & Pouzar	KHL 13318 (GB)	JQ031126	JX109880	JX109909
Daedalea quercina (L.) Pers.	Miettinen 12662(H)	JQ700296	JX109883	JX109912
Fomes fomentarius (L.) Fr.	ES2008-3 (GB)	JX109860	JX109888	
Gloeoporus taxicola (Pers.) Gilb. & Ryvarden	SK 0075 (GB)	JX109847	JX109873	JX109901
Hydnopolyporus fimbriatus (Fr.) D.A. Reid	Meijer3729 (O)	JN649346	JX109875	JX109904
Hypochnicium lyndoniae (D.A. Reid) Hjortstam	NL 041031 (GB)	JX124704	JX109876	JX109905
Hypochnicium subrigescens Boidin	KHL 11968 (GB)	JQ031128	JX109877	JX109906
Irpex lacteus (Fr.) Fr.	DO 421/951208 (O)	JX109852	JX109882	JX109911
Ischnoderma benzoinum (Wahlenb.) P. Karst.	KHL 12099 (GB)	JX109841	JX109867	JX109895
Mycoacia fuscoatra (Fr.) Donk	KHL 13275 (GB)	JN649352	JX109879	JX109908
Nigroporus vinosus (Berk.) Murrill	BHS2008-100 (GB)	JX109857	JX109885	JX109914
Oligoporus rennyi (Berk. & Broome) Donk	TN 7389 (H)	JX109849	JX109874	JX109903
Pachykytospora tuberculosa (Fr.) Kotl. & Pouzar	KA11 (GB)	JX124705	JX109878	JX109907
Parmastomyces mollissimus (Maire) Pouzar	TN 7672 (H)	JX109848		JX109902
Perenniporia medulla-panis (Jacq.) Donk	KHL 11943 (GB)	JX109840	JX109866	JX109894
Phlebia firma J. Erikss. & Hjortstam	K268 (GB)	EU118654	JX109890	

Taxon	**Voucher (Herbarium)**	**nLSU & 5.8S**	**RPB2**	**TEF1**
Phlebia subochracea (Bres.) J. Erikss. & Ryvarden	KGN 162-95 (GB)	EU118656		
Phlebia tremellosa (Schrad.) Nakasone & Burds.	ES2008-2 (GB)	JX109859	JX109887	JX109916
Phlebia unica (H.S. Jacks. & Dearden) Ginns	KHL 11786 (GB)	EU118657	JX109861	JX109889
Physisporinus sanguinolentus (Alb. & Schwein.) Pilát	KHL 11913 (GB)	JX109843	JX109869	JX109897
Piloporia sajanensis (Parmasto) Niemelä	HK 17250 (GB)	JX109853		
Piptoporus betulinus (Bull.) P. Karst.	Miettinen 12388 (H)	JX109856	JX109884	JX109913
Podoscypha venustula (Speg.) D.A. Reid	LR 40821 (O)	JX109851	JX109881	JX109910
Porogramme albocincta (Cooke & Massee) J. Lowe	TL 9894/03	JX109854		
Postia placenta (Fr.) M.J. Larsen & Lombard	TN 7609 (GB)	JX109846	JX109872	JX109900
Postia tephroleuca (Fr.) Jülich	TN 6900(H)	JX109850		
Skeletocutis nivea (Jungh.) Jean Keller	ES2008-1 (GB)	JX109858	JX109886	JX109915
Steccherinum ochraceum (Pers. ex J.F. Gmel.) Gray	KHL 11902 (GB)	JQ031130	JX109865	JX109893

Supplementary Table III. Number of BBH ortologies in the 10 Polyporales genomes plus 5 outgroups

	Bjead	Gersu	Dicsq	Fompi	Gansp	Phchr	Rhopl	Trave	Wolco	Phlbr	Fomme	Punst	Glotr	Hetan
(total)	15473	12125	12290	14724	12910	10048	12541	14296	12746	16170	11333	11538	11846	13378
Gersu	6201													
Dicsq	6624	6186												
Fompi	6761	6243	6652											
Gansp	6850	6277	***8137***	6815										
Phchr	6617	***5387***	5717	5806	5874									
Rhopl	6470	6058	6361	6988	6554	5592								
Trave	6867	6330	7520	6888	7701	5863	6538							
Wolco	6622	6180	6473	7118	6683	5703	7025	6659						
Phlbr	7481	6236	6627	6778	6891	6380	6501	6859	6658					
Fomme	5938	5382	5727	5812	5918	5167	5620	5822	5784	5906				
Punst	6279	5622	6003	6159	6196	5420	5901	6166	5986	6253	5634			
Glotr	6695	6041	6415	6671	6636	5781	6384	6605	6512	6700	5971	6372		
Hetan	6423	5778	6165	6328	6398	5516	6107	6323	6233	6389	5830	6029	6481	
Stehi	6569	5936	6345	6506	6570	5642	6185	6520	6332	6560	5892	6254	6687	6756

Supplementary Table IV. Average percent identity between orthologs in the 10 Polyporales genomes plus 5 outgroups

	Bjead	Gersu	Dicsq	Fompi	Gansp	Phchr	Rhopl	Trave	Wolco	Phlbr	Fomme	Punst	Glotr	Hetan
Gersu	61													
Dicsq	61	63												
Fompi	60	63	62											
Gansp	60	63	***76***	62										
Phchr	67	63	62	61	62									
Rhopl	61	65	63	67	63	63								
Trave	61	63	70	62	69	62	63							
Wolco	61	64	63	67	62	62	69	63						
Phlbr	64	62	61	60	61	65	62	61	62					
Fomme	56	57	57	56	57	58	57	57	57	57				
Punst	58	59	59	58	58	59	59	58	59	58	57			
Glotr	59	60	60	59	59	60	60	59	60	59	57	60		
Hetan	59	60	60	59	59	60	60	60	60	59	57	59	60	
Stehi	57	58	58	57	57	58	58	57	58	57	56	57	58	64

Supplementary Table V. Number of orthologs in syntenic regions in the 10 Polyporales genomes plus 5 outgroups

	Bjead	Gersu	Dicsq	Fompi	Gansp	Phchr	Rhopl	Trave	Wolco	Phlbr	Fomme	Punst	Glotr	Hetan
(total)	15473	12125	12290	14724	12910	10048	12541	14296	12746	16170	11333	11538	11846	13378
Gersu	3417													
Dicsq	3777	3993												
Fompi	3759	3894	4341											
Gansp	4017	4191	***7289***	4486										
Phchr	5212	***3229***	3193	3175	3397									
Rhopl	3980	4304	4372	5581	4466	3414								
Trave	3731	4038	6164	4225	6568	3293	4355							
Wolco	4153	4452	4673	5844	5083	3587	6302	4804						
Phlbr	5202	3582	3675	3881	3991	4454	3806	3849	4330					
Fomme	2042	2106	2102	2065	2450	1764	2199	2201	2487	2261				
Punst	2718	2680	2627	2652	2999	2166	2784	2817	3135	2700	2234			
Glotr	3528	3488	3468	3406	4012	3139	3923	3660	4007	3437	2753	3663		
Hetan	3296	3202	3307	3189	3610	2767	3442	3506	3875	3350	2622	3137	4331	
Stehi	2183	2300	2346	2319	2823	1772	2671	2344	2881	2208	1906	2448	3304	4152

Supplementary Table VI. Top 30 pfam domains in 10 Polyporales. (The last 3 numbers are average, maximum and minimum PFAM counts in other 28 Basidiomycota)

	Bjead	Gersu	Dicsq	Fompi	Gansp	Phchr	Rhopl	Trave	Wolco	Phlbr	Other Basidiomycota			
											AVG	MAX	MIN	
PF00067	176	192	158	147	182	113	178	176	166	180	93.6	212	4	## p450
PF00400	197	169	183	125	151	109	104	116	129	129	131.3	275	80	## WD40
PF00069	146	143	114	124	122	106	116	126	120	126	117.1	229	69	## Pkinase
PF00646	164	88	93	110	106	70	105	160	80	114	118.4	784	7	## F-box
PF00106	74	91	94	143	88	84	120	122	125	109	75.1	177	14	## adh_short
PF00271	86	89	89	84	75	59	82	77	88	114	84.9	158	56	## Helicase_C
PF00172	69	70	77	56	82	35	44	84	66	70	59.3	149	5	## Zn_clus
PF00096	63	53	50	63	55	35	94	60	53	68	53.5	115	15	## zf-C2H2
PF00076	66	57	57	62	56	50	57	58	59	65	59.0	79	35	## RRM_1
PF00248	62	58	57	50	48	53	55	65	53	66	36.6	72	9	## Aldo_ket_red
PF00107	41	52	59	58	44	52	57	72	57	63	35.1	77	11	## ADH_zinc_N
PF00097	65	51	49	61	53	28	47	49	54	58	44.4	102	16	## zf-C3HC4
PF01370	46	45	56	56	43	50	44	50	54	61	37.9	84	11	## Epimerase
PF00270	49	53	51	57	48	33	49	48	50	66	49.2	75	36	## DEAD
PF08240	39	53	55	46	41	47	45	70	52	55	33.5	71	12	## ADH_N
PF00026	53	41	44	40	49	52	45	51	39	55	25.1	68	2	## Asp
PF00005	46	48	38	45	39	50	41	45	37	52	39.2	68	23	## ABC_tran
PF02985	43	47	43	38	44	42	39	45	47	43	39.3	61	30	## HEAT
PF00004	46	40	43	46	38	39	40	44	43	49	37.3	51	27	## AAA
PF01753	80	33	31	53	35	23	18	81	20	48	41.6	225	1	## zf-MYND
PF04082	48	35	39	38	45	36	35	43	44	45	37.8	72	2	## Fungal_trans
PF08659	27	45	37	56	40	27	35	48	47	38	27.2	67	8	## KR
PF00083	39	37	40	40	37	39	35	45	44	43	38.4	80	10	## Sugar_tr
PF06985	0	8	112	0	90	0	0	159	8	0	5.6	63	0	## HET
PF00098	25	31	30	15	40	57	92	28	41	17	40.0	154	5	## zf-CCHC
PF07993	39	23	35	35	36	29	42	41	45	48	27.3	68	7	## NAD_binding_4
PF01494	31	31	36	45	48	31	32	38	43	37	25.8	72	3	## FAD_binding_3
PF00561	41	30	37	39	40	27	27	56	28	41	25.8	59	8	## Abhydrolase_1
PF00153	37	34	34	36	37	34	35	35	37	38	34.0	39	29	## Mito_carr
PF01266	44	28	33	40	41	35	28	31	37	34	29.9	56	12	## DAO

Supplementary Table VII. Domains occurring at least in one Polyporales genome more often that in all Basidiomycota. (The last 3 numbers are average, maximum and minimum PFAM counts in other 28 Basidiomycota)

	Bjead	Gersu	Dicsq	Fompi	Gansp	Phchr	Rhopl	Trave	Wolco	Phlbr	Other Basidiomycota AVG	MAX	MIN		
PF00702	27	29	34	32	39	25	28	25	30	34	25.2	34	13	##	Hydrolase
PF00173	26	25	23	25	22	23	25	24	29	32	21.1	28	9	##	Cyt-b5
PF03171	20	24	34	30	31	16	25	22	25	31	14.2	25	1	##	2OG-FeII_Oxy
PF01423	14	13	16	19	16	13	15	16	16	15	14.7	18	11	##	LSM
PF00036	19	15	15	14	17	18	14	16	12	19	14.2	18	10	##	efhand
PF06985	0	8	112	0	90	0	0	159	8	0	5.6	63	0	##	HET
PF00450	30	14	18	9	18	21	15	24	11	24	10.8	28	2	##	Peptidase_S10
PF07859	13	23	19	8	9	8	19	30	11	16	10.0	19	2	##	Abhydrolase_3
PF09286	4	19	25	29	22	9	23	28	17	28	7.4	21	0	##	Pro-kuma_activ
PF00010	12	9	10	19	11	11	11	11	11	11	9.8	15	3	##	HLH
PF01764	9	6	15	8	19	8	6	11	10	14	9.2	18	0	##	Lipase_3
PF00487	14	10	9	10	11	6	11	16	10	18	8.3	15	3	##	FA_desaturase
PF04140	19	24	13	12	18	9	16	14	11	23	6.5	19	1	##	ICMT
PF01794	12	8	10	12	9	10	10	14	8	8	8.6	12	1	##	Ferric_reduct
PF08022	12	8	10	12	9	11	9	13	8	8	8.3	12	2	##	FAD_binding_8
PF00891	13	13	5	9	6	10	9	6	10	26	7.6	22	0	##	Methyltransf_2
PF00291	8	8	9	11	9	10	9	11	10	8	7.8	10	5	##	PALP
PF00046	11	7	9	11	14	7	8	9	6	11	7.7	12	1	##	Homeobox
PF00013	8	8	13	8	8	8	9	8	7	8	7.9	9	6	##	KH_1
PF02133	9	5	12	16	9	6	15	11	13	10	6.1	15	0	##	Transp_cyt_pur
PF00533	7	9	7	10	9	6	8	8	8	8	6.9	9	4	##	BRCT
PF01040	6	8	8	5	6	7	8	8	11	20	5.8	17	1	##	UbiA
PF01553	8	6	7	8	7	4	8	7	9	7	6.4	8	3	##	Acyltransfer
PF00350	8	7	6	9	11	4	6	8	7	9	5.8	9	2	##	Dynamin_N
PF01636	10	7	10	7	9	7	17	17	4	5	5.0	12	1	##	APH
PF00488	6	6	5	7	6	6	8	6	10	7	5.9	7	4	##	MutS_V
PF02786	6	6	6	6	7	7	6	7	7	9	5.9	8	4	##	CPSase_L_D2
PF00289	6	7	6	6	7	6	6	6	8	7	5.8	7	4	##	CPSase_L_chain
PF08534	7	6	8	6	9	8	6	8	6	8	5.2	8	2	##	Redoxin
PF02854	8	4	6	12	7	5	6	8	6	5	5.2	9	2	##	MIF4G
PF07723	6	8	4	14	4	5	44	9	12	7	3.6	23	0	##	LRR_2
PF05183	12	4	7	7	8	6	6	6	7	8	4.9	11	0	##	RdRP

PF02171	7	7	9	7	7	7	3	4	7	11	4.8	10	0	##	Piwi
PF01070	7	6	6	9	6	7	10	5	9	7	4.7	8	1	##	FMN_dh
PF00689	5	9	7	7	8	4	5	5	4	5	5.0	8	3	##	Cation_ATPaseC
PF00011	6	4	12	4	6	6	5	9	6	6	4.6	11	0	##	HSP20
PF02212	6	6	4	7	9	4	5	6	7	9	4.6	8	1	##	GED
PF04427	5	4	5	5	5	6	5	5	5	5	4.8	5	2	##	Brix
PF00250	5	5	5	9	5	5	5	6	5	5	4.5	8	0	##	Fork_head
PF03061	4	5	5	6	9	2	4	6	4	6	4.6	8	1	##	4HBT
PF00730	5	6	5	6	5	4	6	7	6	5	4.4	6	2	##	HhH-GPD
PF00790	5	5	5	5	5	5	5	5	5	7	4.4	6	2	##	VHS
PF01426	7	6	4	5	5	4	5	5	4	5	4.0	6	1	##	BAH
PF00682	4	3	4	5	5	4	7	4	4	5	4.1	6	3	##	HMGL-like
PF03060	7	5	4	3	5	7	6	5	6	9	3.6	8	1	##	NPD
PF01644	4	5	4	4	4	4	4	5	5	6	4.0	5	2	##	Chitin_synth_1
PF02785	4	4	4	4	5	5	4	5	4	7	3.8	5	2	##	Biotin_carb_C
PF03109	4	4	4	4	4	4	4	6	4	5	3.9	5	3	##	ABC1
PF01417	5	5	5	5	5	5	5	5	4	6	3.6	5	2	##	ENTH
PF00698	3	4	4	12	5	1	8	3	8	7	3.4	10	1	##	Acyl_transf_1
PF01624	4	4	3	5	4	4	5	4	4	4	3.8	4	3	##	MutS_I
PF00092	11	4	4	6	2	7	2	3	4	9	3.3	8	0	##	VWA
PF00254	3	3	3	11	3	3	3	3	3	5	3.7	8	1	##	FKBP_C
PF06470	4	3	3	4	4	4	4	5	3	3	3.8	4	2	##	SMC_hinge
PF08740	4	3	5	11	5	2	4	5	4	4	3.2	6	1	##	BCS1_N
PF01920	5	4	3	4	3	4	4	3	4	4	3.4	4	1	##	Prefoldin_2
PF00652	2	4	2	1	3	0	1	2	0	22	3.4	16	0	##	Ricin_B_lectin
PF00622	4	3	2	3	4	4	4	4	4	7	3.3	4	2	##	SPRY
PF04145	3	4	3	3	4	3	2	3	3	7	3.1	6	1	##	Ctr
PF00615	3	6	3	3	3	3	4	3	4	3	3.1	5	0	##	RGS
PF00403	4	5	4	3	7	4	4	5	4	5	2.6	4	1	##	HMA
PF07249	4	3	6	5	12	1	7	6	6	5	2.2	8	0	##	Ceratoplatanin
PF08033	3	3	3	5	3	3	3	3	3	3	3.0	4	2	##	Sec23_BS
PF01209	5	7	2	2	2	7	4	2	5	3	2.7	6	1	##	Ubie_methyltrn
PF01713	3	2	2	4	3	2	7	3	3	3	2.9	6	1	##	Smr
PF00201	7	4	6	2	7	2	1	19	2	6	2.0	9	0	##	UDPGT
PF08542	3	2	2	3	3	3	3	3	3	4	2.9	3	2	##	Rep_fac_C
PF01975	5	6	5	8	7	3	3	2	4	6	2.1	6	0	##	SurE
PF03876	3	2	3	4	4	3	3	3	3	3	2.7	3	1	##	RNA_pol_Rpb7_N
PF01851	3	3	2	3	3	3	3	3	3	4	2.7	3	2	##	PC_rep

PF02782	3	3	3	3	3	2	3	3	3	4	2.7	3	2	##	FGGY_C
PF01728	3	2	3	5	2	4	7	2	4	3	2.4	6	1	##	FtsJ
PF08325	5	3	3	3	3	3	3	3	3	3	2.4	4	0	##	WLM
PF00174	4	4	3	3	3	4	4	4	6	6	2.0	5	0	##	Oxidored_molyb
PF03914	2	1	3	3	2	3	3	4	2	5	2.4	3	2	##	CBF
PF03226	3	2	3	3	3	3	3	3	3	5	2.2	4	0	##	Yippee
PF08512	3	2	3	2	2	2	2	3	3	4	2.4	3	2	##	Rtt106
PF02777	3	2	3	3	3	4	3	4	2	4	2.2	3	1	##	Sod_Fe_C
PF00474	3	2	2	4	1	3	4	2	6	3	2.2	5	0	##	SSF
PF02386	3	3	2	2	3	2	3	3	6	2	2.1	5	0	##	TrkH
PF04438	5	1	3	4	4	0	2	3	4	3	2.1	3	0	##	zf-HIT
PF03798	2	2	1	2	3	2	2	2	2	4	2.3	3	1	##	LAG1
PF05190	3	3	2	4	3	2	2	3	3	4	2.0	3	1	##	MutS_IV
PF02852	2	2	2	6	2	4	2	2	2	2	2.1	3	2	##	Pyr_redox_dim
PF00641	1	1	3	1	2	1	2	4	13	0	2.0	4	0	##	zf-RanBP
PF00923	2	2	2	2	2	1	2	5	2	2	2.1	4	1	##	Transaldolase
PF08390	2	1	1	2	3	2	2	3	2	4	2.1	3	1	##	TRAM1
PF01507	2	2	2	2	2	5	2	2	2	2	2.0	3	2	##	PAPS_reduct
PF00081	2	4	3	2	2	3	2	3	2	2	1.9	3	0	##	Sod_Fe_N
PF00183	2	3	2	3	2	3	2	2	2	4	1.9	3	0	##	HSP90
PF00445	2	2	2	3	2	2	2	2	2	6	1.9	4	0	##	RibonucleaseT2
PF07651	2	2	2	2	2	2	2	2	1	4	2.0	3	1	##	ANTH
PF05362	2	2	2	2	2	2	2	2	4	2	2.0	3	1	##	Lon_C
PF04053	2	2	2	2	2	2	2	3	2	2	2.0	2	1	##	Coatomer_WDAD
PF00520	2	2	2	2	2	1	2	2	3	5	1.9	4	1	##	Ion_trans
PF01761	3	2	2	3	2	4	2	3	3	5	1.7	4	1	##	DHQ_synthase
PF01521	2	2	2	2	3	1	2	2	2	2	2.0	2	1	##	Fe-S_biosyn
PF08799	2	2	2	2	2	2	2	2	2	3	1.9	2	1	##	PRP4
PF00312	2	2	2	2	2	1	2	2	2	3	1.9	2	1	##	Ribosomal_S15
PF07650	2	1	1	2	2	3	2	2	3	2	1.9	2	1	##	KH_2
PF01846	2	2	2	2	2	2	3	2	2	2	1.9	2	1	##	FF
PF03595	5	3	4	1	4	2	3	3	2	4	1.5	4	0	##	C4dic_mal_tran
PF00849	2	2	1	5	2	2	2	2	2	2	1.8	3	1	##	PseudoU_synth2
PF09378	2	2	2	2	2	2	2	2	2	3	1.8	2	0	##	HAS-barrel
PF01246	2	1	2	2	2	2	2	1	2	3	1.9	2	0	##	Ribosomal_L24e
PF04855	2	2	2	3	2	2	1	2	2	2	1.8	2	1	##	SNF5
PF04825	2	2	2	2	2	1	1	2	2	3	1.8	2	1	##	Rad21_Rec8_N
PF03460	2	7	2	2	2	2	2	2	1	4	1.5	3	0	##	NIR_SIR_ferr

PF03807	3	1	3	2	3	2	3	2	2	4	1.5	3	1	##	F420_oxidored
PF01388	2	1	2	1	1	1	2	1	4	1	1.8	3	1	##	ARID
PF04695	2	2	2	3	2	0	2	2	2	2	1.6	2	1	##	Pex14_N
PF07685	1	2	2	2	2	1	2	4	2	2	1.6	2	0	##	GATase_3
PF04824	2	1	2	2	2	1	1	2	2	3	1.6	2	1	##	Rad21_Rec8
PF01077	2	4	2	2	2	2	2	2	1	1	1.5	3	0	##	NIR_SIR
PF02265	1	2	2	1	2	2	1	2	0	4	1.6	3	0	##	S1-P1_nuclease
PF01137	2	1	2	2	2	1	2	2	4	2	1.5	2	0	##	RTC
PF05189	2	1	2	2	2	1	2	2	3	2	1.5	2	0	##	RTC_insert
PF03070	2	5	1	3	1	1	1	1	2	2	1.4	3	0	##	TENA_THI-4
PF00633	1	1	1	4	2	2	2	0	2	3	1.4	3	0	##	HHH
PF00393	1	2	2	2	1	2	2	2	2	3	1.2	2	1	##	6PGD
PF08354	2	1	1	2	1	2	1	2	2	6	1.2	3	0	##	DUF1729
PF02184	1	2	1	3	1	2	2	1	2	1	1.3	2	1	##	HAT
PF08154	2	1	2	2	2	1	2	3	2	1	1.2	2	0	##	NLE
PF01174	2	2	2	1	2	1	1	4	1	2	1.2	2	0	##	SNO
PF01218	2	2	3	1	3	2	2	1	2	2	1.2	2	0	##	Coprogen_oxids
PF03725	3	1	4	2	2	2	2	3	1	2	1.1	2	0	##	RNase_PH_C
PF03311	2	2	1	1	1	2	1	1	1	3	1.2	2	1	##	Cornichon
PF04992	1	3	1	1	1	1	1	1	1	3	1.1	2	1	##	RNA_pol_Rpb1_6
PF08487	6	1	0	4	0	3	0	1	0	5	0.9	5	0	##	VIT