

Table S1. Genbank numbers of public sequences used in this study.

Taxon	<i>rpb2</i>	<i>tef</i>	SSU	LSU
Amylocorticiales				
<i>Amylocorticiium cebennense</i>	GU187770	GU187675	GU187612	GU187561
<i>Anomoloma albolutescens</i>	GU187768	GU187671	GU187618	GU187563
Atheliales				
<i>Fibulorhizoctonia sp.</i>	AY885161	AY879115	AY654887	AY635779
<i>Athelia epiphylla</i>	GU187771	GU187676	GU187613	GU187558
<i>Piloderma fallax</i>	GU187797	GU187738	GU187644	GU187535
<i>Leptosporomyces raunkiaerii</i>	GU187791	GU187719	GU187640	GU187588
Auriculariales				
<i>Auricularia sp.</i>	DQ366278	DQ408143	DQ234542	AY634277
<i>Bourdotia sp.</i>		DQ059760	DQ234544	AY635777
<i>Exidia glandulosa</i>		DQ059043	AY293129	AY293179
Boletales				
<i>Serpula himantioides</i>	DQ366283	DQ059046	AF518589	AF518648
<i>Strobilomyces floccopus</i>	AY786065	AY883428	AY662661	AY684155
<i>Suillus pictus</i>	AY786066	AY883429	AY662659	AY684154
Cantharellales				
<i>Clavulina sp.</i>	DQ366286	DQ028589	AY757265	AY745694
<i>Hydnum albomagnum</i>	DQ234553	DQ234568	AY665777	AY700199
<i>Botryobasidium subcoronatum</i>	DQ366284		AY662666	AY647212
Corticiales				
<i>Punctularia strigosozonata</i>	DQ381843	DQ408147	AF518586	AF518642
<i>Vuillemenia comedens</i>	DQ381844		AF518594	AF518666
Dacrymycetales				
<i>Calocera cornea</i>	AY536286	AY881019	AY771610	AY701526
<i>Guepiniopsis buccina</i>	DQ385875	DQ028588	DQ667157	AY745711
Agaricales				
<i>Lepista irina</i>	DQ385885	DQ028591	AY705948	DQ234538
<i>Chondrostereum purpureum</i>	AY218477	DQ457632	AF082851	AF518607
<i>Macrolepiota dolichaula</i>	DQ385886	DQ435785	AY771602	DQ411537
Gloeophyllales				
<i>Gloeophyllum sepiarium</i>	HM536109	HM536110	HM536061	HM536062
<i>Neolentinus lepideus</i>	HM536119	HM536120	HM536076	HM536075
<i>Veluticeps berkeleyi</i>	HM536125	HM536126	HM536082	HM536081
Gomphales				
<i>Gautieria otthii</i>	AY218486	AY883434	AF393043	AF393058
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Taxon	<i>rpb2</i>	<i>tef</i>	SSU	LSU
<i>Ramaria rubella</i>	AY786064	AY883435	AY707095	AY645057
<i>Ramaria stricta</i>	DQ219078	DQ219256	-	AF213117
<i>Phaeoclavulina grandis</i>	DQ219074	DQ219252	-	DQ218618
<i>Clavariadelphus truncatus</i>	DQ219064	DQ219240	-	AY574649
Phallales				
<i>Phallus hadriani</i>	DQ408114	DQ435792	AY771601	AY885165
<i>Ileodictyon gracile</i>	DQ219095	DQ219272	-	DQ218635
<i>Protuberia canescens</i>	DQ219108	DQ219284	-	DQ218645
Hysterangiales				
<i>Hysterangium clathroides</i>	DQ218976	DQ219151	-	DQ218547
<i>Trappea pinyonensis</i>	DQ219043	DQ219221	-	DQ218597
<i>Gallacea dingleyae</i>	DQ218959	DQ219137	-	DQ218539
Geastrales				
<i>Sphaerobolus stellatus</i>	DQ219062	DQ219237	-	AF393077
<i>Geastrum floriforme</i>	DQ219049	DQ219227	-	DQ218485
<i>Geastrum pectinatum</i>	DQ219051	DQ219229	-	DQ218602
Hymenochaetales				
<i>Hyphoderma praetermissum</i>	AY787221	AY885150	AY707094	AY700185
<i>Rickenella fibula</i>	DQ408115	DQ435794	AY771599	AY700195
<i>Fomitiporia mediterranea</i>	AY803748	AY885149	AY662664	AY684157
Jaapiales				
<i>Jaapia argillacea</i>	GU187788	GU187711	AF518581	GU187581
Polyoporales				
<i>Donkioporia expansa</i>	HM536102	HM536103	HM536053	HM536052
<i>Fomitopsis pinicola</i>	AY786056	AY885152	AY705967	AY684164
<i>Climacodon septentrionalis</i>	AY780941	AY885151	AY705964	AY684165
<i>Phlebia radiata</i>	AY218502	AY885156	AF026606	AF287885
Russulales				
<i>Hericium americanum</i>	DQ408127	DQ028585	AY665778	DQ411538
<i>Echinodontium tinctorium</i>	AY218482	AY885157	AF026578	AF393056
<i>Lactarius deceptivus</i>	AY803749	AY885158	AY707093	AY631899
Sebacinales				
<i>Piriformospora indica</i>	DQ408131	AJ249911	AY293147	AY293202
<i>Tremellodendron pallidum</i>	DQ408132	DQ029196	AY766081	AY745701
Thelephorales				
<i>Clavariadelphus truncatus</i>	DQ408133	DQ059053	AY752971	AY631900
<i>Polyozellus multiplex</i>	DQ408134	DQ028596	AY771600	AY634275

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Taxon	<i>rpb2</i>	<i>tef</i>	SSU	LSU
Trechisporales				
<i>Trechispora alnicola</i>	DQ408135	DQ059052	AY657012	AY635768
<i>Trechispora sp.</i>	DQ408136	DQ059051	AY803753	AY647217

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Table S2. Significant BLAST hits.

Accession nr.	Description	E-value	Max. ident.
<i>tef</i>			
GU187720.1	<i>Leucogyrophana romellii</i>	0.0	81%
GU187715.1	<i>Leucogyrophana lichenic</i>	0.0	81%
JN164896.1	<i>Trametes gibbosa</i>	0.0	81%
DQ521420.1	<i>Haplotrichum conspersum</i>	0.0	80%
GU187701.1	<i>Gyrodon lividus</i>	0.0	80%
HM467599.1	<i>Perenniporiella neofulv</i>	0.0	80%
GU187755.1	<i>Simocybe serrulata</i>	0.0	80%
JN164883.1	<i>Trametes cubensis</i>	0.0	80%
GU187691.1	<i>Coniophora prasinoides</i>	0.0	80%
JN164881.1	<i>Trametes polyzona</i>	0.0	80%
DQ059047.1	<i>Phyllotopsis sp.</i>	0.0	81%
AY883429.1	<i>Suillus pictus</i>	0.0	80%
DQ028603.1	<i>Trametes versicolor</i>	0.0	81%
AY879116.1	<i>Boletellus projectellus</i>	0.0	79%
AY885152.1	<i>Fomitopsis pinicola</i>	0.0	80%
JN164878.1	<i>Trametes versicolor</i>	0.0	83%
JN164888.1	<i>Trametes ectypa</i>	0.0	83%
JN164892.1	<i>Trametes villosa</i>	0.0	83%
JN164891.1	<i>Trametes hirsuta</i>	0.0	83%
JN164889.1	<i>Trametes pubescens</i>	0.0	83%
SSU			
DQ834916.1	<i>Resinicium saccharicola</i>	0.0	95%
AF026615.1	<i>Resinicium bicolor</i>	0.0	95%
EU888830.1	<i>Pycnoporus sp.</i>	0.0	95%
DQ437679.1	<i>Alloclavaria purpurea</i>	0.0	94%
GU182936.1	<i>Pycnoporus sp.</i>	0.0	94%
DQ834915.1	<i>Resinicium friabile</i>	0.0	95%
AY336774.1	<i>Antrodiella semisupina</i>	0.0	94%
AY336751.1	<i>Trametes versicolor</i>	0.0	94%
AY707094.1	<i>Hyphoderma praetermissum</i>	0.0	94%
AY309019.1	<i>Trametes versicolor</i>	0.0	94%
DQ873636.1	<i>Mycoacia pinicola</i>	0.0	98%
DQ873594.1	<i>Globulicium hiemale</i>	0.0	98%
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Accession	Description	E-value	Max. ident.
AY752973.1	<i>Cyphellostereum laeve</i>	0.0	98%
AY771599.1	<i>Rickenella fibula</i>	0.0	97%
DQ437679.1	<i>Alloclavaria purpurea</i>	0.0	97%
DQ917659.1	<i>Thanatephorus cucumeris</i>	0.0	97%
AY757266.1	<i>Ceratobasidium sp.</i>	0.0	97%
AY946268.1	<i>Thanatephorus cucumeris</i>	0.0	97%
EF025042.1	<i>Uncultured eukaryote</i>	0.0	97%
EF023749.1	<i>Uncultured Auriculariaceae</i>	0.0	97%
LSU			
JN710593.1	<i>Steccherinum sp.</i>	0.0	88%
JN710592.1	<i>Steccherinum sp.</i>	0.0	88%
JN710560.1	<i>Junghuhnia nitida</i>	0.0	88%
DQ911614.1	<i>Auriscalpium vulgare</i>	0.0	88%
JN710556.1	<i>Junghuhnia japonica</i>	0.0	88%
JN710533.1	<i>Flabellophora sp.</i>	0.0	88%
AY586656.1	<i>Gloeoporus taxicola</i>	0.0	88%
JN939577.1	<i>Hypochnicium wakefieldiae</i>	0.0	88%
AF506471.1	<i>Scytinostromella hetero</i>	0.0	88%
JN710576.1	<i>Nigroporus vinosus</i>	0.0	88%
DQ873631.1	<i>Hyphodontia subalutacea</i>	0.0	94%
EU118621.1	<i>Cyphellostereum laeve</i>	0.0	94%
JQ700296.1	<i>Daedalea quercina</i>	0.0	93%
JN710586.1	<i>Steccherinum cf.</i>	0.0	93%
AF506385.1	<i>Creolophus cirrhatus</i>	0.0	93%
JN710588.1	<i>Steccherinum murashkinskyi</i>	0.0	93%
JQ700297.1	<i>Piptoporus betulinus</i>	0.0	93%
AY629318.1	<i>Grifola frondosa</i>	0.0	94%
JN710562.1	<i>Junghuhnia rhinocephala</i>	0.0	93%
AF506459.1	<i>Hericium coralloides</i>	0.0	93%
<i>rpb2</i>			
GU187810.1	<i>Suillus bresadolae</i>	2e-176	77%
DQ385878.1	<i>Bolbitius vitellinus</i>	3e-160	77%
AY786059.1	<i>Hygrophoropsis aurantiaca</i>	1e-159	76%
DQ472716.1	<i>Gymnopus contrarius</i>	2e-157	77%
DQ859892.1	<i>Sarcomyxa serotina</i>	1e-153	76%
AY786063.1	<i>Pluteus romellii</i>	6e-137	75%
JN164850.1	<i>Trametes versicolor</i>	4e-129	75%
JN164859.1	<i>Trametes gibbosa</i>	1e-109	75%
AY536286.1	<i>Calocera cornea</i>	1e-108	75%
HM536123.1	<i>Veluticeps abietina</i>	6e-107	75%
DQ056143.1	<i>Coprinellus disseminatus</i>	0.0	75%
DQ472730.1	<i>Kuehneromyces rostratus</i>	0.0	75%
GU187767.1	<i>Athelia sp.</i>	0.0	75%
AY786058.1	<i>Grifola sordulenta</i>	0.0	74%

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Accession	Description	E-value	Max. ident.
AY218482.2	<i>Echinodontium tinctorium</i>	3e-177	73%
HM536107.1	<i>Gloeophyllum protractum</i>	2e-124	77%
GU384651.1	<i>Entoloma vinaceum</i>	3e-112	75%
JN710739.1	<i>Steccherinum tenue</i>	5e-110	76%
DQ219075.1	<i>Phaeoclavulina sp.</i>	9e-103	76%
DQ381840.1	<i>Tulasnella sp.</i>	9e-103	74%