

Table S1 Collection numbers and sources of DNAs used for empirical primer tests and/or DNA sequencing

Organism	Authority	Collection ID	Collector and Source
<i>Cortinarius traganus</i>	(Fr.) Fr.	LN1-get GAL	GA Laursen, priv. herb.
<i>Galerina patagonica</i>	Singer	ZT12086	E Horak, priv. herb.
<i>Fomitopsis pinicola</i>	(Sw.) P. Karst.	GAL13958	GA Laursen, priv. herb.
<i>Auricularia cornea</i>	Ehrenb.	RJB12619	RJ Bandoni, priv. herb.
<i>Exidia crenata</i>	(Schwein.) Fr.	KW3848	K Wells, priv. herb.
<i>Exidia sp.</i>		RJB12604	RJ Bandoni, priv. herb.
<i>Exidiopsis punicea</i>	K. Wells & Bandoni	RJB7062	RJ Bandoni, priv. herb.
<i>Heterochaete sp.</i>		RJB12488	RJ Bandoni, priv. herb.
<i>Tipularia protocorm mycorrhiza</i>		TF2.10N	MK McCormick, priv. collection
<i>Tipularia protocorm mycorrhiza</i>		8.2PC1	MK McCormick, priv. collection
<i>Alpova sp.</i>		GAL18179	GA Laursen, priv. herb.
<i>Boletus edulis</i>	Bull.	GAL17816	GA Laursen, priv. herb.
<i>Dacrymyces capitatus</i>	Schwein.	KW3847	K Wells, priv. herb.
<i>Dacrymyces cerasi</i>	Lib.	RJB12277	RJ Bandoni, priv. herb.
<i>Geastrum mammosum</i>	De Toni	GAL17462	GA Laursen, priv. herb.
<i>Gomphus floccosus</i>	(Schwein.) Singer	GAL17582	GA Laursen, priv. herb.
<i>Polyporus brumalis</i>	(Pers.) Fr.	GAL17928	GA Laursen, priv. herb.
<i>Trametes versicolor</i>	(L.) Lloyd	GAL17440	GA Laursen, priv. herb.
<i>Trichaptum abietinum</i>	(Dicks.) Ryvarden	GAL17333	GA Laursen, priv. herb.
<i>Ceratobasidium sp.</i> (described as “<i>C. obscurum</i>”)		UAMH5443	RS Currah, UAMH
<i>Ceratobasidium sphaerosporum</i> Holotype	Warcup & P.H.B. Talbot	JHW 0122; CBS571.83	JH Warcup, CBS
<i>Moniliopsis anomala</i>	Burgeff ex Currah, Smreciu & Hambl.	UAMH6451	RS Currah, UAMH
<i>Rhizoctonia versicolor</i>	E. Müll. & Nüesch	Arditti 2982	J Adams, priv. collection
<i>Ceratobasidiaceae sp.</i> (described as <i>Sistotrema sp.</i>)		UAMH5437	RS Currah, UAMH
<i>Thanatephorus ochraceus</i> (described as “ <i>T. pennatus</i> ”) Fungus isolated from	(Massee) P. Roberts	UAMH5404	RS Currah, UAMH
<i>Hexalectris spicata</i>		LTc63.2A	DL Taylor, priv. collection
<i>Serendipita (Sebacina) vermifera</i>	(Oberw.) P. Roberts	JHW 0750; CBS572.83	JH Warcup, CBS
<i>Epulorhiza anaticula</i>	(Currah) Currah	UAMH5428	RS Currah, UAMH
<i>Tulasnella cystidiophora</i>	Höhn. & Litsch.	KW2871	K Wells, priv. herb.
<i>Tulasnella calospora</i>	(Boud.) Juel	JHW 062; CBS573.83	JH Warcup, CBS
<i>Tulasnella irregularis</i> TYPE	Warcup & P.H.B. Talbot	JHW 0632; CBS574.83	JH Warcup, CBS
<i>Tulasnella sp.</i> from <i>Goodyera</i>		MKM159	MK McCormick, priv. collection
<i>Tulasnella sp.</i> from <i>Tipularia</i>		MKM128	MK McCormick, priv. collection
<i>Tulasnella sp.</i> from <i>Tipularia</i>		MKM181	MK McCormick, priv. collection
<i>Tulasnella sp.</i> from <i>Tipularia</i>		MKM252	MK McCormick, priv. collection
<i>Tulasnella viollea</i>	(Quél.) Bourdot & Galzin	DAOM 222001	???, DAOM
<i>Lactarius resimus</i>	(Fr.) Fr.	GAL17121	GA Laursen, priv. herb.
<i>Lactarius torminosus</i>	(Schaeff.) Gray	GAL17749	GA Laursen, priv. herb.
<i>Russula brevipes</i>	Peck	GAL15456	GA Laursen, priv. herb.

Organism	Authority	Collection ID	Collector and Source
<i>Hydnellum peckii</i>	Banker	GAL17760	GA Laursen, priv. herb.
Fungus isolated from <i>Cephalanthera austinae</i>		LTc41.1	DL Taylor, priv. collection
Fungus isolated from <i>Cephalanthera austinae</i>		LTc37.2	DL Taylor, priv. collection
Fungus isolated from <i>Corallorhiza odontorhiza</i>		MKM615	MK McCormick, priv. collection
Fungus isolated from <i>Corallorhiza odontorhiza</i>		MKM336	MK McCormick, priv. collection
<i>Tomentella</i> sp.		LT5	DL Taylor, priv. collection
<i>Tomentella</i> sp.		LT7	DL Taylor, priv. collection
<i>Tomentella</i> sp.		LT9	DL Taylor, priv. collection
<i>Sirobasidium magnum</i>	Boedijn	RJB12452	RJ Bandoni, priv. herb.
<i>Tremella mesenterica</i>	Retz.	GAL17737	GA Laursen, priv. herb.
<i>Cuphea llavea</i> stem	Lex.	none	Institute of Arctic Biology greenhouse
<i>Phacelia viscida</i> stem	(Benth.) Torrey	none	Institute of Arctic Biology greenhouse
<i>Verbena speciosa</i> stem		none	Institute of Arctic Biology greenhouse
<i>Silene vulgaris</i> stem	(Moench) Garcke	none	Institute of Arctic Biology greenhouse
<i>Dalechampia volubilis</i> stem	E. Meyer.	none	Institute of Arctic Biology greenhouse
<i>Corallorhiza maculata</i> stem	(Raf.) Raf.	4SQmCX5	DL Taylor, priv. collection
<i>Corallorhiza mertensiana</i> stem	Bong.	1BLmE2	DL Taylor, priv. collection
<i>Cypripedium guttatum</i> stem	Sw.	Cg015E	DL Taylor, priv. collection
<i>Epulorhiza</i> sp. (described as " <i>E. repens</i> ")		UAMH5430	RS Currah, UAMH
<i>Ceratorhiza</i> sp. (described as " <i>C. goodyerae-repentis</i> ")		UAMH6440	RS Currah, UAMH

Taxa for which new sequences are presented are shown in bold. CBS, Centraalbureau voor Schimmelcultures; DAOM, National Mycological Herbarium, Canada; UAMH, University of Alberta Microfungus Collection and Herbarium.