

Supp. file 1. Details of the sequences used in this study. The newly generated sequence is in bold. The abbreviation N/A denotes ‘not available’.

Taxon	Voucher no.	Geographic origin	GenBank accession no.	
			ITS	LSU
<i>Chlorophyllum africanum</i>	PREM 62141	South Africa	MG741963	MG742042
<i>Chlorophyllum africanum</i>	PREM 62140	South Africa	MG741961	MG741941
<i>Chlorophyllum africanum</i>	PREM 62140	South Africa	MG741962	
<i>Chlorophyllum agaricoides</i>	AH43928	Spain	KR233489	KR233498
<i>Chlorophyllum agaricoides</i>	HKAS 101312	Russia	MG742003	MG742020
<i>Chlorophyllum agaricoides</i>	NY218152	USA	MN161871	
<i>Chlorophyllum agaricoides</i>	MICH8133	USA	MN161870	
<i>Chlorophyllum agaricoides</i>	MICH8095	USA	MN161869	
<i>Chlorophyllum agaricoides</i>		Iraq	PP556338	
<i>Chlorophyllum agaricoides</i>	NSK_1014448	Russia	MT302578	
<i>Chlorophyllum agaricoides</i>	HMAS_290178t_re		MK966482	
<i>Chlorophyllum agaricoides</i>	HDMON249	Mongolia	MN161868	
<i>Chlorophyllum agaricoides</i>	C.L._Ovrebo_4118	USA	AY243616	
<i>Chlorophyllum agaricoides</i>	HMAS_66233	China	MG742008	
<i>Chlorophyllum agaricoides</i>	HMAS_66228	China	MG742007	
<i>Chlorophyllum agaricoides</i>	HMAS_50945	China	MG742005	
<i>Chlorophyllum agaricoides</i>	HMAS_71678	China	MG742004	
<i>Chlorophyllum agaricoides</i>	AH43924	Spain	KR233487	
<i>Chlorophyllum agaricoides</i>	16968	Italy	JF908776	
<i>Chlorophyllum agaricoides</i>	H._Knudsen_99.376	Russia	AY243614	
<i>Chlorophyllum agaricoides</i>	AH429721	Spain	KR233485	
<i>Chlorophyllum agaricoides</i>	HMAS 70065	China	MG742009	
<i>Chlorophyllum agaricoides</i>	HMAS_60191	China	MG742006	
<i>Chlorophyllum agaricoides</i>	HKAS_101312	Russia	MG742003	
<i>Chlorophyllum agaricoides</i>	AFTOL-ID_440	Greece	DQ200928	
<i>Chlorophyllum agaricoides</i>	AH43925	Spain	KR233488	
<i>Chlorophyllum agaricoides</i>	AH43926	Spain	KR233486	
<i>Chlorophyllum agaricoides</i>	H._Knudsen_99.376	Russia	AY243615	
<i>Chlorophyllum agaricoides</i>	Ginns11170	Australia	JF495080	

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<i>Chlorophyllum agaricoides</i>	isolate_ASC5	Iraq	PP410314	
<i>Chlorophyllum agaricoides</i>	AD3140	Australia	JF495079	
<i>Chlorophyllum alborubescens</i>	Maruyama_herb._Maruyamatie	Japan	AY243610	
<i>Chlorophyllum arizonicum</i>	AH317241	Mexico	KR233490	KR233499
<i>Chlorophyllum arizonicum</i>	NY834495	USA	MN161876	
<i>Chlorophyllum arizonicum</i>	MICH139135	USA	MN161873	
<i>Chlorophyllum arizonicum</i>	NY809153	USA	MN161872	
<i>Chlorophyllum arizonicum</i>	NY834493	USA	MN161875	
<i>Chlorophyllum arizonicum</i>	MICH4380	USA	MN161874	
<i>Chlorophyllum arizonicum</i>	MO420138	USA	ON256810	
<i>Chlorophyllum arizonicum</i>	isolate_cafungi10	Kazakhstan	ON704902	
<i>Chlorophyllum brunneum</i>	MEL 2030630	Australia	AY083206	AF482886
<i>Chlorophyllum brunneum</i>	HKAS 101315	Italy	MG742013	MG742022
<i>Chlorophyllum brunneum</i>	1109554	Portugal	OL333558	
<i>Chlorophyllum brunneum</i>	1119907	Portugal	OL333557	
<i>Chlorophyllum brunneum</i>	WA162923	Poland	OR662142	
<i>Chlorophyllum brunneum</i>	isolate_ecv2798	USA	AY081230	
<i>Chlorophyllum brunneum</i>	8-X-2001, M. Boom (UCB)	USA	AY081227	
<i>Chlorophyllum brunneum</i>	isolate_ecv2361	USA	AY081223	
<i>Chlorophyllum brunneum</i>	isolate S.D. Russell ONT WCMB23 iNaturalist* 14964531	USA	OR168780	
<i>Chlorophyllum brunneum</i>	1105345rnal_transcribee	Portugal	OL333556	
<i>Chlorophyllum brunneum</i>	KN_354	Switzerland	MT973506	
<i>Chlorophyllum brunneum</i>	H62	Tunisia	PP532941	
<i>Chlorophyllum brunneum</i>	AH_49177	Spain	MW020203	
<i>Chlorophyllum brunneum</i>	HKAS_101314	Italy	MG742015	
<i>Chlorophyllum brunneum</i>	isolate_JCAS0163001000204	Spain	OL333550	
<i>Chlorophyllum brunneum</i>	isolate_ecv2779	USA	AY081229	
<i>Chlorophyllum brunneum</i>	isolate_ecv1649	Netherlands	AY081225	
<i>Chlorophyllum brunneum</i>	isolate_LG605	USA	AY081222	
<i>Chlorophyllum brunneum</i>	isolate_FBT1959	Australia	OL653081	
<i>Chlorophyllum brunneum</i>	isolate_FBT2547	Australia	OL653080	

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			ITS	LSU
<i>Chlorophyllum brunneum</i>	isolate_FBT2546	Australia	OL653079	
<i>Chlorophyllum brunneum</i>	isolate_FBT2545	Australia	OL653078	
<i>Chlorophyllum brunneum</i>	isolate_FBT2148	Australia	OL653077	
<i>Chlorophyllum brunneum</i>	HKAS_101313	Italy	MG742014	
<i>Chlorophyllum brunneum</i>	WA0000071015	Poland	MK028877	
<i>Chlorophyllum brunneum</i>	UBC_F-32372	Canada	MF955166	
<i>Chlorophyllum brunneum</i>	isolate_iNat100360357t_rie	USA	OP651093	
<i>Chlorophyllum brunneum</i>	isolate_RCJ103	Australia	OL653133	
<i>Chlorophyllum brunneum</i>	isolate_ecv2784	USA	AY081228	
<i>Chlorophyllum brunneum</i>	Feb_2002_L.L._Cole_(UC)	USA	AY243609	
<i>Chlorophyllum brunneum</i>	25-I-1999, E.C. Vellinga 2317 (UCB)	USA	AF482856	
<i>Chlorophyllum brunneum</i>	26-IX-1997, W. McAdoo (herb. McAdoo), (UCB)	USA	AY081231	
<i>Chlorophyllum brunneum</i>	isolate_ecv2612	USA	AY081226	
<i>Chlorophyllum brunneum</i>	isolate_MO405230	USA	OP470105	
<i>Chlorophyllum brunneum</i>	isolate_ecv2441	USA	AY081224	
<i>Chlorophyllum brunneum</i>	isolate_A-GCB_13	Australia	MZ126611	
<i>Chlorophyllum demangei</i>	Z. W. Ge 3112	China	MG741965	MG742027
<i>Chlorophyllum demangei</i>	Z. W. Ge 3574	China	MG741964	MG742025
<i>Chlorophyllum demangei</i>	HKAS 89157	China	MG741966	
<i>Chlorophyllum demangei</i>	isolate_MP25	Philippines	OR099748	
<i>Chlorophyllum demangei</i>	HNL502498	Laos	MW193055	
<i>Chlorophyllum demangei</i>	HNL502138	Laos	MW040572	
<i>Chlorophyllum demangei</i>	ecv3557 UC2060098ecv3557 UC2060098	Thailand	MN582745	
<i>Chlorophyllum globosum</i>	PREM 62147	South Africa	MG742002	MG742024
<i>Chlorophyllum globosum</i>	strain_DMSC09391	Thailand	KU049671	
<i>Chlorophyllum globosum</i>	Personal collection: M. van der Walt: VDW1564	South Africa	MT304656	
<i>Chlorophyllum globosum</i>	HKAS_101316	China	MG741996	
<i>Chlorophyllum globosum</i>	DMSC111381	Thailand	KP229776	
<i>Chlorophyllum globosum</i>	personal collection:M._van_der_Walt:VDW1568	South Africa	MT304659	

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<i>Chlorophyllum globosum</i>	PREM_62150	South Africa	MG741999	
<i>Chlorophyllum globosum</i>	isolate_WM2		MH287459	
<i>Chlorophyllum globosum</i>	MFLU121815	Thailand	KJ524553	
<i>Chlorophyllum globosum</i>	HNL503445		MN317315	
<i>Chlorophyllum globosum</i>	26-VIII-1999_D.C._Mossebotial	Cameroon	AY243619	
<i>Chlorophyllum globosum</i>	PREM_62148	South Africa	MG741998	
<i>Chlorophyllum globosum</i>	PREM_62149	South Africa	MG742001	
<i>Chlorophyllum globosum</i>	PREM_62152	South Africa	MG742000	
<i>Chlorophyllum globosum</i>	PREM_62151	South Africa	MG741997	
<i>Chlorophyllum globosum</i>	Z.W._Ge_2006-1	China	MG741995	
<i>Chlorophyllum globosum</i>	HLA0785	Benin	OP218488	
<i>Chlorophyllum globosum</i>	HLA0784a	Benin	OP218487	
<i>Chlorophyllum globosum</i>	HLA0784	Benin	OP218486	
<i>Chlorophyllum globosum</i>	HLA0783a	Benin	OP218485	
<i>Chlorophyllum globosum</i>	HLA0783	Benin	OP218484	
<i>Chlorophyllum globosum</i>	isolate_KaiR111	Benin	MT110230	
<i>Chlorophyllum hortense</i>	Z. W. Ge 3115	China	MG741968	MG742028
<i>Chlorophyllum hortense</i>	HKAS 101317	China	MG741967	MG742026
<i>Chlorophyllum hortense</i>	FACEN 4971	Paraguay	OQ060563	OQ060569
<i>Chlorophyllum hortense</i>	isolate NY-EFM575	Colombia	U85318	N/A
<i>Chlorophyllum hortense</i>	LAH36666	Pakistan	MW031278	
<i>Chlorophyllum hortense</i>	isolate SSB21	India	PP473662	
<i>Chlorophyllum hortense</i>	LAH36664	Pakistan	MW031276	
<i>Chlorophyllum hortense</i>	CUH-AM15	India	KM244733	
<i>Chlorophyllum hortense</i>	LAH36662	Pakistan	MW031274	
<i>Chlorophyllum hortense</i>	LAURA	Mexico	MH299414	
<i>Chlorophyllum hortense</i>	20101005	China	MZ323902	
<i>Chlorophyllum hortense</i>	isolate S13	Sudan	MK554573	
<i>Chlorophyllum hortense</i>	isolate KN1197	India	PP587416	
<i>Chlorophyllum hortense</i>	isolate S19	Sudan	MK554576	
<i>Chlorophyllum hortense</i>	isolate S14	Sudan	MK554574	
<i>Chlorophyllum hortense</i>	isolate S15	Sudan	MK554575	

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<i>Chlorophyllum hortense</i>	11-VII-2000, D.C. Mossebo 165	Cameroon	AY243611	
<i>Chlorophyllum hortense</i>	8-VI-2000, D.C. Mossebo 269	Cameroon	AY243612	
<i>Chlorophyllum hortense</i>	BU 04	India	MK660092	
<i>Chlorophyllum hortense</i>	isolate Fruiting body		ON202901	
<i>Chlorophyllum hortense</i>	isolate_BAS19	Philippines	OR052679	
<i>Chlorophyllum hortense</i>	LAH36665	Pakistan	MW031277	
<i>Chlorophyllum hortense</i>	isolate_T27	Pakistan	KM350691	
<i>Chlorophyllum hortense</i>	isolate_T13	Pakistan	KM350690	
<i>Chlorophyllum hortense</i>	isolate_T11	Pakistan	KM350689	
<i>Chlorophyllum hortense</i>	MHHNU_31013	China	MK388153	
<i>Chlorophyllum hortense</i>	LAH36663	Pakistan	MW031275	
<i>Chlorophyllum hortense</i>	isolate_DQS50F	Philippines	MZ735423	
<i>Chlorophyllum hortense</i>	PC17		MN099356	
<i>Chlorophyllum hortense</i>	HNL502149	Laos	MW040573	
<i>Chlorophyllum hortense</i>	PC113		MN318424	
<i>Chlorophyllum hortense</i>	HAW:JKS73	USA	MK412582	
<i>Chlorophyllum hortense</i>	strain_EAH8_(TENN)	USA	MF773636	
<i>Chlorophyllum hortense</i>	isolate_FA53	Pakistan	MK713837	
<i>Chlorophyllum hortense</i>	PS2018-31		MN099355	
<i>Chlorophyllum hortense</i>	GDGM:57301	China	HG976895	
<i>Chlorophyllum hortense</i>	CBS:531.92_strain_CBS_531.92	USA	MH862374	
<i>Chlorophyllum hortense</i>	OMDL K. Canan iNaturalist *95217701	USA	PP850368	
<i>Chlorophyllum hortense</i>	MAA_08	India	OQ363278	
<i>Chlorophyllum hortense</i>	1-III-2001 E.R. Boa (K)	Bolivia	AY243613	
<i>Chlorophyllum hortense</i>	PREM_VDW799	South Africa	MG741970	
<i>Chlorophyllum hortense</i>	HKAS 101318 18S	China	MG741969	
<i>Chlorophyllum hortense</i>	MFLU1217831	Thailand	KJ524554	
<i>Chlorophyllum hortense</i>	140920-021	China	KU757473	
<i>Chlorophyllum hortense</i>	140920-011 RNA gee	China	KU757472	
<i>Chlorophyllum hortense</i>	MHHNU_7530	China	MK239254	
<i>Chlorophyllum hortense</i>	CHC 056	Brazil	MT952873	

Taxon	Voucher no.	Geographic origin	GenBank accession no.	
			ITS	LSU
<i>Chlorophyllum hortense</i>	HKAS_90470	China	MG741971	
<i>Chlorophyllum hortense</i>	LAH	Pakistan	MN577078	
<i>Chlorophyllum hortense</i>	E.C. Vellinga ecv3622 (UC)	Thailand	HM488765	
<i>Chlorophyllum hortense</i>	MFLU121769	Thailand	KJ524556	
<i>Chlorophyllum hortense</i>	MFU0900051	Thailand	KJ524555	
<i>Chlorophyllum levantinum</i>	ACAM_2012-320	Cyprus	MN161878	
<i>Chlorophyllum levantinum</i>	ALV5876	Cyprus	MN161879	
<i>Chlorophyllum lusitanicum</i>	AH45540	Spain	KR233482	KR233491
<i>Chlorophyllum lusitanicum</i>	AH455391	Spain	KR233484	KR233493
<i>Chlorophyllum lusitanicum</i>	DD 2994	Greece	MN161880	MN161887
<i>Chlorophyllum lusitanicum</i>	AH43927	Spain	KR233483	
<i>Chlorophyllum lusitanicum</i>	AH46113	Spain	KY828148	
<i>Chlorophyllum lusitanicum</i>	AH46114	Spain	KY828147	
<i>Chlorophyllum lusitanicum</i>	AH46115	Spain	KY828146	
<i>Chlorophyllum lusitanicum</i>	AH46465	Spain	MH368354	
<i>Chlorophyllum molybdites</i>	CUH AM704	India	MT181061	MT184383
<i>Chlorophyllum molybdites</i>	HKAS 45051	China	MG741985	MG742030
<i>Chlorophyllum molybdites</i>	Z. W. Ge 3381	USA	MG741993	MG742034
<i>Chlorophyllum molybdites</i>	HKAS 101322	Italy	MG741988	MG742032
<i>Chlorophyllum molybdites</i>	strain DMSC10488	Thailand	KU049676	KU049687
<i>Chlorophyllum molybdites</i>	CUH AM150	India	KM190077	N/A
<i>Chlorophyllum molybdites</i>	FACEN04891	Paraguay	OQ060567	
<i>Chlorophyllum molybdites</i>	strain_DMSC07290	Thailand	KU049673	
<i>Chlorophyllum molybdites</i>	strain_DMSC0021	Thailand	KP229777	
<i>Chlorophyllum molybdites</i>	MFLU1217721	Thailand	KJ524557	
<i>Chlorophyllum molybdites</i>	MO527574	USA	PP047660	
<i>Chlorophyllum molybdites</i>	DMSC07291	Thailand	KU049674	
<i>Chlorophyllum molybdites</i>	strain_DMSC09538	Thailand	KP229775	
<i>Chlorophyllum molybdites</i>	strain_MCJ0001_(TENN)	USA	MF773607	
<i>Chlorophyllum molybdites</i>	iNaturalist_*15962440	USA	MW522537	
<i>Chlorophyllum molybdites</i>	FACEN004890	Paraguay	OQ060566	

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			ITS	LSU
<i>Chlorophyllum molybdites</i>	FACEN004302	Paraguay	OQ060564	
<i>Chlorophyllum molybdites</i>	MRC12	India	PP582905	
<i>Chlorophyllum molybdites</i>	LAH	Pakistan	MN577080	
<i>Chlorophyllum molybdites</i>	CUH/FN/MP/SP/08	India	OP604250	
<i>Chlorophyllum molybdites</i>	HAW:JKS96	USA	MK412591	
<i>Chlorophyllum molybdites</i>	140703-011	China	KU757474	
<i>Chlorophyllum molybdites</i>	FACEN004889	Paraguay	OQ060565	
<i>Chlorophyllum molybdites</i>	OSA:MY-7658	Japan	LC439508	
<i>Chlorophyllum molybdites</i>	DMSC04365	Thailand	KU049672	
<i>Chlorophyllum molybdites</i>	strain_DMSC04364	Thailand	KU049670	
<i>Chlorophyllum molybdites</i>	strain_DMSC09255	Thailand	KP229774	
<i>Chlorophyllum molybdites</i>	M.I. Bidartondo (UCB)	USA	AY081243	
<i>Chlorophyllum molybdites</i>	isolate_JS20190918-01	China	MN960187	
<i>Chlorophyllum molybdites</i>	4-IX-1994, J. States AEF1097 (MICH)	USA	AF482836	
<i>Chlorophyllum molybdites</i>	AM150_(CUH)	India	KM190077	
<i>Chlorophyllum molybdites</i>	isolate_FBT669	Australia	OL653074	
<i>Chlorophyllum molybdites</i>	ALV9203	Cyprus	MN161881	
<i>Chlorophyllum molybdites</i>	PSD-1	Indonesia	PP555903	
<i>Chlorophyllum molybdites</i>	Z.W._Ge_3377	USA	MG741992	
<i>Chlorophyllum molybdites</i>	HKAS_101320	China	MG741984	
<i>Chlorophyllum molybdites</i>	JBRI-M22-067		OP928173	
<i>Chlorophyllum molybdites</i>	1t		MW192451	
<i>Chlorophyllum molybdites</i>	MO428681	USA	ON256805	
<i>Chlorophyllum molybdites</i>	MO430766	USA	ON256800	
<i>Chlorophyllum molybdites</i>	MEL:2382837	Australia	KP012712	
<i>Chlorophyllum molybdites</i>	MFLU1217651	Thailand	KJ524559	
<i>Chlorophyllum molybdites</i>	HNL503303		MN317317	
<i>Chlorophyllum molybdites</i>	HNL503215		MN317316	
<i>Chlorophyllum molybdites</i>	NY-EFM891	Colombia	U85337	
<i>Chlorophyllum molybdites</i>	Mushroom_Observer_329988	USA	MT357082	
<i>Chlorophyllum molybdites</i>	MFLU1217751	Thailand	KJ524558	

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<i>Chlorophyllum molybdites</i>	Mushroom_Observer_468051	USA	OK491629	
<i>Chlorophyllum molybdites</i>	MHHNU_30237	China	MK239232	
<i>Chlorophyllum molybdites</i>	JLF10949	USA	OQ210940	
<i>Chlorophyllum molybdites</i>	isolate_TLE2277	Australia	OL653076	
<i>Chlorophyllum molybdites</i>	HKAS_101319	Thailand	MG741994	
<i>Chlorophyllum molybdites</i>	HMAS_63519	China	MG741991	
<i>Chlorophyllum molybdites</i>	HMAS_63069	China	MG741990	
<i>Chlorophyllum molybdites</i>	HMAS_250973	China	MG741989	
<i>Chlorophyllum molybdites</i>	Z.W._Ge_3146	China	MG741987	
<i>Chlorophyllum molybdites</i>	HKAS_58244	China	MG741986	
<i>Chlorophyllum molybdites</i>	5-IX-2000_R.W._Kerrigan_1920	USA	AY243618	
<i>Chlorophyllum molybdites</i>	DUKE-JJ162	USA	U85309	
<i>Chlorophyllum molybdites</i>	X-1989_K.W._Gams (E. C. Vellinga 1646)	Netherlands	AY243617	
<i>Chlorophyllum molybdites</i>	isolate_FBT908	Australia	OL653075	
<i>Chlorophyllum molybdites</i>	MRC13	India	PP582906	
<i>Chlorophyllum molybdites</i>	strain_LS091		MG270072	
<i>Chlorophyllum molybdites</i>	MO429255	USA	ON256822	
<i>Chlorophyllum molybdites</i>	FS10	India	MK855510	
<i>Chlorophyllum molybdites</i>	isolate_S41	Sudan	MK541935	
<i>Chlorophyllum molybdites</i>	isolate_S39	Sudan	MK541933	
<i>Chlorophyllum molybdites</i>	isolate_S56	Sudan	MK541940	
<i>Chlorophyllum molybdites</i>	isolate_S53	Sudan	MK541938	
<i>Chlorophyllum molybdites</i>	isolate_S46	Sudan	MK541937	
<i>Chlorophyllum molybdites</i>	isolate KUBOT-KRMK-2020-92	India	MW547073	
<i>Chlorophyllum molybdites</i>	isolate S40	Sudan	MK541934	
<i>Chlorophyllum molybdites</i>	Seq_MP14	Pakistan	MW553147	
<i>Chlorophyllum molybdites</i>	isolate_S31	Sudan	MK560059	
<i>Chlorophyllum molybdites</i>	isolate_S45	Sudan	MK541936	
<i>Chlorophyllum molybdites</i>	isolate_S57	Sudan	MK541941	
<i>Chlorophyllum molybdites</i>	isolate_S54	Sudan	MK541939	
<i>Chlorophyllum molybdites</i>	isolate_KN1197.2	India	PP657565	

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<i>Chlorophyllum molybdites</i>	isolate_KN1197	India	OQ918566	
<i>Chlorophyllum molybdites</i>	strain_AM	India	KM609396	
<i>Chlorophyllum molybdites</i>	strain_DMSC13590	Thailand	KU049675	
<i>Chlorophyllum molybdites</i>	strain: 20-2	Japan	AB509466	
<i>Chlorophyllum neomastoideum</i>	HKAS 83208	China	MG741976	MG742035
<i>Chlorophyllum neomastoideum</i>	JBRI-M23-182		OR852555	
<i>Chlorophyllum nothorhacodes</i>	19-I-1995, H. Lepp 1142 (CANB)	Australia	AF482855	N/A
<i>Chlorophyllum olivieri</i>	HKAS 31587	Germany	MG742016	MG742036
<i>Chlorophyllum olivieri</i>	HKAS 53466	Germany	MG742017	MG742037
<i>Chlorophyllum olivieri</i>	HMAS_86555	United Kingdom	MG742018	
<i>Chlorophyllum olivieri</i>	HKAS_101321	Italy	MG742019	
<i>Chlorophyllum olivieri</i>	isolate_iNat100360037	USA	OP651094	
<i>Chlorophyllum olivieri</i>	isolate_ecv2649	USA	AY081242	
<i>Chlorophyllum olivieri</i>	OMDL K. Canan iNaturalist *185636286	USA	OR987262	
<i>Chlorophyllum olivieri</i>	iNAT:18397062	USA	OM672056	
<i>Chlorophyllum olivieri</i>	iNAT:18020268	USA	OM212917	
<i>Chlorophyllum olivieri</i>	iNAT:34054714	USA	OM212860	
<i>Chlorophyllum olivieri</i>	S.D._Russell_HRL0991	Canada	MH979435	
<i>Chlorophyllum olivieri</i>	337911	USA	OK649904	
<i>Chlorophyllum olivieri</i>	K(M):195395	United Kingdom	MZ159528	
<i>Chlorophyllum olivieri</i>	YSU-F-10078	Russia	PP977562	
<i>Chlorophyllum olivieri</i>	OMDL K. Canan iNaturalist *180682006	USA	PP156150	
<i>Chlorophyllum olivieri</i>	LUGO:ECC16100912	Spain	MW376631	
<i>Chlorophyllum olivieri</i>	WA0000071024	Poland	MK028885	
<i>Chlorophyllum olivieri</i>	isolate_NAMPA1801-22	USA	OP225560	
<i>Chlorophyllum olivieri</i>	SB021222A	USA	OR656931	
<i>Chlorophyllum olivieri</i>	bio-material_iNAT:59008759	Canada	MZ753780	
<i>Chlorophyllum olivieri</i>	7-XII-990, R.P.J. de Kok (L)	Netherlands	AY081241	

Taxon	Voucher no.	Geographic origin	GenBank accession no.	
			ITS	LSU
<i>Chlorophyllum palaeotropicum</i>	PREM 62145	South Africa	MG741982	MG742039
<i>Chlorophyllum palaeotropicum</i>	HKAS 93747	Benin	MG741983	MG742040
<i>Chlorophyllum palaeotropicum</i>	PREM 62144	South Africa	MG741980	N/A
<i>Chlorophyllum palaeotropicum</i>	PC21	Thailand	MN099357	
<i>Chlorophyllum palaeotropicum</i>	PC118	Thailand	MN318425	
<i>Chlorophyllum palaeotropicum</i>	Z.W._Ge_2519	China	MG741977	
<i>Chlorophyllum palaeotropicum</i>	isolate_CL4	Philippines	OR052694_	
<i>Chlorophyllum palaeotropicum</i>	PREM_62142	South Africa	MG741978	
<i>Chlorophyllum palaeotropicum</i>	PREM_VDW887	South Africa	MG741979	
<i>Chlorophyllum palaeotropicum</i>	PREM_62146	South Africa	MG741981	
<i>Chlorophyllum palaeotropicum</i>	strain_JP201	India	PP059073	
<i>Chlorophyllum palaeotropicum</i>	LAH	Pakistan	MN577079	
<i>Chlorophyllum pseudoglobosum</i>	CUH AM155	India	KP642506	KR080484
<i>Chlorophyllum rhacodes</i>	24-IX-1997, E.C. Vellinga 2106 (L)	Netherlands	AF482849	AY176345
<i>Chlorophyllum rhacodes</i>	JFA5532	USA	AY081237	N/A
<i>Chlorophyllum rhacodes</i>	Strain H4	India	MT229200	N/A
<i>Chlorophyllum rhacodes</i>	T. Spillis (UCB)	USA	AY081240	
<i>Chlorophyllum rhacodes</i>	2-X-1970 E. Bartelli (coll. J.F. Ammirati 5532) (MICH)	USA	AY243608	
<i>Chlorophyllum rhacodes</i>	KN_353	Switzerland	MT973507	
<i>Chlorophyllum rhacodes</i>	23-IX-1998, M. Enderle (L)	Germany	AY081234	
<i>Chlorophyllum rhacodes</i>	LE-257595	Russia	JQ683124	
<i>Chlorophyllum rhacodes</i>	isolate_ecv2781	USA	AY081233	
<i>Chlorophyllum rhacodes</i>	isolate OMDL K. Canan iNaturalist* 189533034	USA	PP959612	
<i>Chlorophyllum rhacodes</i>	isolate_ecv2434	USA	AY081232	
<i>Chlorophyllum rhacodes</i>	isolate_ecv2112	Netherlands	AY081236	
<i>Chlorophyllum rhacodes</i>	10-X-1998, M. Enderle (L)	Germany	AY081235	
<i>Chlorophyllum rhacodes</i>	SB171123B	France	PP064592	
<i>Chlorophyllum rhacodes</i>	Mushroom_Observer_378270	USA	MT745591	
<i>Chlorophyllum rhacodes</i>	strain_H4	India	KM609407	
<i>Chlorophyllum rhacodes</i>	isolate_ecv2288	Netherlands	AY081239	

Taxon	Voucher no.	Geographic origin	GenBank accession no.	
			ITS	LSU
<i>Chlorophyllum rhacodes</i>	strain_Champ-61	France	KX449465	
<i>Chlorophyllum rhacodes</i>	isolate CR1	India	MH820354	
<i>Chlorophyllum rhacodes</i>	isolate_CIRds		OP802644	
<i>Chlorophyllum</i> sp.	S19	Pakistan	KY636372	
<i>Chlorophyllum</i> sp.	BAB-4973	India	KR155063	
<i>Chlorophyllum</i> sp.	strain_WQGY2021-6-3		OK586750	
<i>Chlorophyllum</i> sp.	BAB-4994	India	KR155082	
<i>Chlorophyllum</i> sp.	MUSH87		OR418169	
<i>Chlorophyllum</i> sp.	Isolate_IBSDM3	India	OQ650297	
<i>Chlorophyllum</i> sp.	BAB-52341	India	KT186198	
<i>Chlorophyllum</i> sp.	isolate_OTU307	USA	MK018574	
<i>Chlorophyllum</i> sp.	HLA0738	Benin	OP218493	
<i>Chlorophyllum</i> sp.	HLA0740	Benin	OP218494	
<i>Chlorophyllum</i> sp.	AZ801_RNA_gene_par	USA	HQ020416	
<i>Chlorophyllum</i> sp.	YSU-F-13811	Russia	PP277302	
<i>Chlorophyllum</i> sp.	110114MFBPC061	China	MW554275	
<i>Chlorophyllum</i> sp.	110118MFBPC123	China	MW554194	
<i>Chlorophyllum</i> sp.	110117MFBPC156	China	MW554220	
<i>Chlorophyllum</i> sp.	GL-2017 ZRL20151862		LT716031	
<i>Chlorophyllum</i> sp.	B3		JX434652	
<i>Chlorophyllum</i> sp.	A8		JX434651	
<i>Chlorophyllum</i> sp.	110118MFBPC102	China	MW554201	
<i>Chlorophyllum</i> sp.	YSU-F-10603	Russia	PP977564	
<i>Chlorophyllum</i> sp.	BAB-4734	India	KR154963	
<i>Chlorophyllum</i> sp.	SDBR-CMUNK0585	Thailand	MZ452085	
<i>Chlorophyllum</i> sp.	SDBR-CMUNK0731	Thailand	MZ452084	
<i>Chlorophyllum</i> sp.	isolate_TLE680	Australia	OL653132	
<i>Chlorophyllum</i> sp.	JLF10931	USA	OQ746465	
<i>Chlorophyllum</i> sp.	strain_HCL2021-8-12		OL351626	
<i>Chlorophyllum</i> sp.	isolate_OTU993	USA	MK018762	
<i>Chlorophyllum sapukai</i>	FACEN 4388	Paraguay	OQ060562	OQ060568
<i>Chlorophyllum sphaerosporum</i>	HMAS 71683	China	MG742012	MG742044

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<i>Chlorophyllum sphaerosporum</i>	HMAS 66153	China	MG742011	MG742043
<i>Chlorophyllum sphaerosporum</i>	HKAS_80624	China	MG742010	
<i>Chlorophyllum squamulosum</i>	CUH AM702	India	MT188670	MT188727
<i>Chlorophyllum squamulosum</i>	CUH AM705	India	MT233318	MT233322
<i>Chlorophyllum squamulosum</i>	CUH AM703	India	MT233363	N/A
<i>Chlorophyllum subrhacodes</i>	Z. W. Ge 3232	USA	MG741973	MG742046
<i>Chlorophyllum subrhacodes</i>	Z. W. Ge 3411	USA	MG741975	MG742045
<i>Chlorophyllum subrhacodes</i>	Z.W._Ge_3242	USA	MG741974	
<i>Chlorophyllum subrhacodes</i>	Z.W._Ge_3385	USA	MG741972	
<i>Chlorophyllum venenatum</i>	isolate_TLE641	Australia	OL653131	
<i>Chlorophyllum venenatum</i>	IZS20117147/12B-149		MZ005540	
<i>Chlorophyllum venenatum</i>	IZS20117147/12A-149		MZ005539	
<i>Chlorophyllum tenue</i> sp. nov.	AGS 09/2019	Brazil	OP852363	OP852374
<i>Leucoagaricus leucothites</i>	15-X-1996, E.C. Vellinga 2050 (L)	Netherlands	AF482865	N/A
<i>Leucoagaricus leucothites</i>	GLM 45950	Germany	N/A	AY207226
<i>Leucoagaricus nympharum</i>	HMAS 99343	China	EU416310	EU416311