Antiquities of the rainforest: evolution of mycoheterotrophic angiosperms growing on Glomeromycota

Mennes, C.B.

Appendix A: Supplementary Tables.

Appendix A.1. Taxon information, voucher information and GenBank accession numbers.

Chapter 2

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*nad1b-c*
Acanthochlamys bracteata P.C.Kao	Velloziaceae		AY952411.1	AY299698.1	—	—
Aletris lutea Small	Nartheciaceae		DQ786092.1	FJ215780.1	KF264492	DQ786160
Andruris sp.	Triuridaceae	Sands, Pattison, Wood 2833, Papua New Guinea	KF197094	—	KF197111	—
Asplundia cf. *venezuelensis* Benth.	Cyclanthaceae	RBGB 19720037-	KF264476	KF258580	KF258579	KF258208
Asplundia rigida (Aubl.) Harling	Cyclanthaceae	RBGB 19790005-	KF264477	KF258578	KF258199	KF258207
Barbacenia elegans (Balf.) Pax	Velloziaceae	RBGB 19084359-	KF197081	KF197075	KF197105	KF197098
Carludovica palmata Ruiz & Pav 1	Cyclanthaceae	HBL812119-22130	KF264478	KF258577	KF258198	KF258211
Carludovica palmata Ruiz & Pav 2	Cyclanthaceae	RBGB 19221361-	KF264479	KF258586	KF258204	KF258212
Croomia pauciflora (Nutt.) Torr.	Stemonaceae		AF168835.1	AF197708.1	AF197735.1	—
Cyclanthus bipartitus Poit. ex A.Rich.	Cyclanthaceae	RBGB 19510200-	KF264480	KF258587	KF258205	KF258210
Dicranopygium atrovirens (H.Wendl.) Harling	Cyclanthaceae	RBGB 19391773-	KF264481	KF258588	KF258203	KF258209
Dioscorea communis (L.) Caddick & Wilkin	Dioscoreaceae		EU186223.1	AY277804.1	KF298370	GQ469502
Dioscorea rockii Prain & Burkill	Dioscoreaceae		DQ786090.1	EU421029.1	KF264495	DQ786157
Freycinetia cumingiana Gaudich. 1	Pandanaceae	HBL910022	KF298366	KF298286	KF298292	KF298298
Freycinetia cumingiana Gaudich. 2	Pandanaceae	RBGB 20080173-09	KF298363	KF298287	KF298293	KF298299
Freycinetia philippinensis Hemsl.	Pandanaceae	HBL950608	KF298381	KF298288	KF298294	KF298300
Freycinetia sp. 1	Pandanaceae	HBL981172	KF298367	KF298289	KF298295	KF298301
Freycinetia sp. 2	Pandanaceae	RBGB 20080172-08	KF298365	KF298290	KF298296	KF298302
Freycinetia sp. 3	Pandanaceae	RBGB 20080174-10	KF298362	KF298291	KF298297	KF298303
Kihansia sp.	Triuridaceae	Sainge 1620, YA, Cameroon	KF197095	KF197072	KF197113	KF197102
Kupea martinetugei Cheek & S.A.Williams 1	Triuridaceae	Merckx et al. 102, LV, Cameroon	KF197093	KF298373	KF197112	KF197103
Kupea martinetugei Cheek & S.A.Williams 2	Triuridaceae	Sainge 1668, YA, Cameroon	—	KF298372	KF197110	—
Lacandonia schismatica E.Martínez & Ramos	Triuridaceae		—	AY299794.1	—	—
Ludovia lancifolia Brongn.	Cyclanthaceae	RBGB 19810835-	KF264482	KF258589	KF258202	KF258206
Narthecium ossifragum (L.) Huds.	Nartheciaceae		AF309411.1	AY299809.1	KF264496	DQ786163.1
Nietneria paniculata Steyerm.	Nartheciaceae		EU186219.1	EU421041.1	KF264497	GQ469504
Orontium aquaticum L.	Araceae		AF293753.1	AY299816.1	AF197745.1	HM576829.1
Pandanus baptistii Misonne^	Pandanaceae	RBGB 19610454-	KF298360	KF298305	KF298319	KF298333
Pandanus cf. *dubius* Spreng.	Pandanaceae	HBL910011	KF298359	KF298306	KF298320	KF298334
Pandanus furcatus Roxb.	Pandanaceae	RBGB 10005462-	KF298358	KF298307	KF298321	KF298335
Pandanus labyrinthicus Kurz ex Miq.	Pandanaceae	RBGB 19381346-	KF298357	KF298308	KF298322	KF298336
Pandanus montanus Bory	Pandanaceae	RBGB 2000134-92	KF298356	KF298309	KF298323	KF298337
Pandanus pacificus J.H.Veitch^	Pandanaceae	RBGB 19630068-	KF298355	KF298310	KF298324	KF298338
Pandanus purpurascens Thouars	Pandanaceae	RBGB 19773283-	KF298354	KF298311	KF298325	KF298339
Pandanus sp. 1	Pandanaceae	HBL920709/ HBL920276	KF298361	KF298304	KF298318	KF298332
Pandanus sp. 2	Pandanaceae	HBL990062	KF298364	KF298312	KF298326	KF298340
Pandanus stenophyllus Kurz ex Miq.^	Pandanaceae	RBGB 19392017-	KF298353	KF298313	KF298327	KF298341
Pandanus tectorius Parkinson ex Du Roi	Pandanaceae	RBGB 20031134-52	KF298352	KF298314	KF298328	KF298342
Pandanus tectorius var. *laevis* Warb.	Pandanaceae	RBGB 19480610-	KF298351	KF298315	KF298329	KF298343

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*nad1b-c*
Pandanus utilis Bory	Pandanaceae	RBGB 19074101	KF298350	KF298316	KF298330	KF298344
Pandanus veitchii Mast.^	Pandanaceae	RBGB 19270660-	KF298349	KF298317	KF298331	KF298345
Pentastemona sumatrana Steenis	Stemonaceae	HBL910375	KF264490	KF264506	KF298369	KF258576
Sciaphila albescens Benth. 1	Triuridaceae	O. Banki 108, Guiana	KF197092	KF197069	KF298375	KF197100
Sciaphila albescens Benth. 2	Triuridaceae	Maas et al. 9650, U, French Guiana	KF197091	KF197071	KF298376	—
Sciaphila albescens Benth. 3	Triuridaceae	Jansen-Jacobs 6567, Suriname	KF197090	KF197073	KF298377	KF197099
Sciaphila albescens Benth. 4	Triuridaceae	Maas et al.9667, Guiana	KF197089	—	KF298378	—
Sciaphila ledermannii Engl. 1	Triuridaceae	Merckx et al. 128, LV, Cameroon	KF197088	KF197070	KF197109	KF197101
Sciaphila ledermannii Engl. 2	Triuridaceae	Dessein 1850, BR, Gabon	KF197086	KF197077	KF197108	KF298346
Sciaphila nana Blume	Triuridaceae	Poncrt s.n., 298, Vietnam	KF197085	KF197076	KF197107	KF298347
Sciaphila picta Miers	Triuridaceae	Hammell 3105, Panama	KF197084	KF298368	KF197106	—
Sciaphila purpurea Benth. 1	Triuridaceae	Alzatc 4151, 291, Colombia	KF197083	KF197079	KF298379	KF197096
Sciaphila purpurea Benth. 2	Triuridaceae	Maas et al. 830, Venezuela	KF197087	—	KF298380	—
Sciaphila quadribullifera J.J.Sm.	Triuridaceae	Polak 1118, Papua New Guinea	KF197082	KF197078	KF298371	—
Sciaphila sp.	Triuridaceae	Prieditis s.n. (NHN-U 0253669), Borneo	KF264483	KF258583	KF258193	—
Sciaphila tenella Blume	Triuridaceae	Polak 1117, Papua New Guinea	KF264484	—	KF258194	—
Seychellaria africana Vollesen	Triuridaceae	Bridson 634 WAG, Tanzania	KF264485	KF258584	KF258195	—
Seychellaria madagascariensis C.H.Wright	Triuridaceae	Dorr 4592 WAG, Madagascar	KF264486	—	KF258196	—
Stemona sp.	Stemonaceae	HBL20081117	KF264491	KF264505	KF258200	KF258575
Stemona tuberosa var. *ternatensis* (J.J.Sm.) Duyfjes	Stemonaceae	HBL910374	KF298348	KF264504	KF258201	KF258574
Tacca integrifolia Ker Gawl.	Taccaceae		DQ786085.1	EU421045.1	KF264494	DQ786153
Trichopus sempervirens (H.Perrier) Caddick & Wilkin	Trichopodaceae		AF309395.1	JN850565.1	KF264493	KF264499
Triuris hexophthalma Maas	Triuridaceae	Renz 14120, Guiana	KF264487	KF258585	KF258197	—
Triuris hyalina Miers 1	Triuridaceae	Sano & Laessoe 52195, Brazil	KF264488	KF258582	KF298374	—
Triuris hyalina Miers 2	Triuridaceae	Marquez-Guzman s.n. (d.d. 1990), Mexico	KF264489	KF258581	—	—
Vellozia elegans (Balf.) Talbot ex Hook.f.^	Velloziaceae	HBLA86167	KF197080	KF197074	KF197104	KF197097
Acorus calamus L.	Araceae		L24078.1	AF039256.1	—	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*
Acorus gramineus Aiton	Araceae		AF197584.1	AY299699.1
Afrothismia foertheriana T.Franke, Sainge & Agerer	Thismiaceae		EU420988.1	EU421002.1
Afrothismia hydra Sainge & T.Franke	Thismiaceae		EU420990.1	EU421004.1
Aletris farinosa L.	Nartheciaceae		AF309390.1	AY299706.1
Aletris lutea Small	Nartheciaceae		DQ786092.1	FJ215780.1
Alisma plantago-aquatica L.	Alismataceae		AF197585.1	AF197717.1
Ananas comosus (L.) Merr.	Bromeliaceae		D29786.1	AY299710.1
Anigozanthos flavidus DC.	Haemodoraceae		AF069214.1	AF039246.1
Apteria aphylla (Nutt.) Barnhart ex Small	Burmanniaceae		DQ786034.1	EU421007.1
Burmannia alba Mart.	Burmanniaceae		DQ786074.1	EU421008.1
Burmannia itoana Makino	Burmanniaceae		DQ786078.1	EU421016.1
Burmannia wallichii (Miers) Hook.f.	Burmanniaceae		DQ786069.1	EU421023.1

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*
Butomus umbellatus L.	Butomaceae		AH003489.1	AY299733.1
Calathea loeseneri J.F.Macbr.	Maranthaceae		AF069224.1	AY299735.1
Campylosiphon purpurascens Benth.	Burmanniaceae		EU420996.1	EU421024.1
Canna indica L.	Cannaceae		D29785.1	AY299741.1
Chamaelirium luteum (L.) A.Gray	Trichopodaceae		AF206884.1	AY299745.1
Clintonia borealis (Aiton) Raf.	Liliaceae		AF168833.1	AY299748.1
Gymnosiphon refractus (Miers) Benth. & Hook.f.^	Burmanniaceae		DQ786038.1	EU421025.1
Cyperus alternifolius L.	Cyperaceae		AY952404.1	DQ401297.1
Cypripedium calceolus L.	Orchidaceae		AF069208.1	AY299755.1
Dasypogon sp.	Dasypogonaceae		AJ417898.1	AY124503.1
Dictyostega orobanchoides (Hook.) Miers	Burmanniaceae		DQ786056.1	EU421026.1
Dioscorea althaeoides R.Knuth	Dioscoreaceae		EU420997.1	EU421027.1
Dioscorea communis (L.) Caddick & Wilkin	Dioscoreaceae		EU186223.1	AY277804.1
Dioscorea prazeri Prain & Burkill	Dioscoreaceae		DQ786089.1	EU421028.1
Dioscorea rockii Prain & Burkill	Dioscoreaceae		DQ786090.1	EU421029.1
Flagellaria indica L.	Flagellariaceae		AF206913.1	AF039248.1
Geomitra clavigera Becc.	Thismiaceae		AF309405.1	EU421049.1
Gymnosiphon bekensis Letouzey	Burmanniaceae		EU420998.1	EU421031.1
Gymnostachys anceps R.Br.	Araceae		AF069200.1	AF039244.1
Hanguana malayana (Jack) Merr.	Hanguanaceae		AF387604.1	AY299775.1
Haplothismia exannulata Airy Shaw	Thismiaceae		DQ786082.1	EU421037.1
Heliconia rostrata Ruiz & Pav.	Heliconiaceae		AF168850.1	AY299778.1
Hexapterella gentianoides Urb.	Burmanniaceae		DQ786057.1	EU421038.1
Isotria verticillata (Muhl. ex Willd.) Raf.	Orchidaceae		AF135204.1	AY299788.1
Ixiolirion tataricum (Pall.) Schult. & Schult.f.	Ixioliriaceae		AF206940.1	AY299789.1
Japonolirion osense Nakai	Petrosaviaceae		AF206942.1	AY299790.1
Joinvillea ascendens Gaudich. ex Brongn. & Gris	Joinvilleaceae		AF168855.1	AY124519.1
Lilium superbum L.	Liliaceae		AF206952.1	AY299797.1
Lophiola aurea Ker Gawl.	Nartheciaceae		DQ786091.1	EU421039.1
Metanarthecium luteo-viride Maxim.	Nartheciaceae		AF309410.1	EU421040.1
Monocostus uniflorus (Poepp. ex Petersen) Maas	Costaceae		AF168861.1	AY299804.1
Narthecium ossifragum (L.) Huds.	Nartheciaceae		AF309411.1	AY299809.1
Neuwiedia veratrifolia Blume	Orchidaceae		AF168863.1	AY299813.1
Nietneria paniculata Steyerm.	Nartheciaceae		EU186219.1	EU421041.1
Nypa fruticans Wurmb	Arecaceae		AY012357.1	U58833.1
Orontium aquaticum L.	Araceae		AF293753.1	AY299816.1
Petrosavia stellaris Becc.	Petrosaviaceae		AF206987.1	AY299821.1
Philydrella pygmaea (R.Br.) Caruel	Philydraceae		AF206990.1	AY299823.1
Phoenix sp.	Arecaceae		AF206991.1	U58831.1
Phytelephas aequatorialis Spruce	Arecaceae		AY012398.1	AY299825.1
Pleea tenuifolia Michx.	Tofieldiaceae		AF206995.1	AY299827.1

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*
Pontederia cordata L.	Pontederiaceae		AF206998.1	AY299828.1
Ravenala madagascariensis Sonn.	Strelitziaceae		AF069228.1	AY299830.1
Scheuchzeria palustris L.	Scheuchzeriaceae		AF069202.1	AY277803.1
Sparganium eurycarpum Engelm.	Typhaceae		AF069220.1	AY124509.1
Stenomeris dioscoreifolia Planch.	Dioscoreaceae		DQ786087.1	EU421042.1
Strelitzia nicolai Regel & K.Koch	Strelitziaceae		AF069229.1	AY299843.1
Syringodium filiforme Kütz.	Cymodoceaceae		AF168876.1	DQ859116.1
Tacca artocarpifolia Seem.	Taccaceae		AF309397.1	EU421043.1
Tacca chantieri André	Taccaceae		DQ786086.1	EU421044.1
Tacca integrifolia Ker Gawl.	Taccaceae		DQ786085.1	EU421045.1
Tacca palmata Blume	Taccaceae		EU421000.1	EU421046.1
Tacca plantaginea (Hance) Drenth	Taccaceae		U42063.1	EU421047.1
Tapeinochilos sp.	Costaceae		AH003649.1	AY299846.1
Tecophilaea cyanocrocus Leyb.	Tecophilaeaceae		AF207036.1	AY299848.1
Thismia panamensis (Standl.) Jonker	Thismiaceae		DQ786081.1	EU421050.1
Thismia rodwayi F.Muell.	Thismiaceae		AF309403.1	AY299849.1
Tofieldia calyculata (L.) Wahlenb.	Tofieldiaceae		AF207043.1	AY299851.1
Trichopus sempervirens (H.Perrier) Caddick & Wilkin	Trichopodaceae		AF309395.1	AY299724.1
Trichopus zeylanicus Gaertn.	Trichopodaceae		AF309394.1	AY277805.1
Triglochin maritimum L.	Juncaginaceae		AF197586.1	AF197716.1
Trillium grandiflorum (Michx.) Salisb.	Liliaceae		AF168879.1	AF039253.1
Xeronema callistemon W.R.B.Oliv.	Xeronemataceae		AF207056.1	AY299857.1
Zostera marina L.	Zosteraceae		HQ445940.1	DQ859121.1

Chapter 3

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Acanthochlamys bracteata P.C.Kao	Velloziaceae		AY952411	AY299698	—	—	—	—
Acorus calamus L.	Acoraceae		L24078	AF039256	DQ007422	—	—	NC_007407
Acorus gramineus Aiton	Acoraceae		AF197584	AY299699	DQ007423	—	—	—
Afrothismia foertheriana T.Franke, Sainge & Agerer	Thismiaceae		EU420988	EU421002	—	—	—	—
Afrothismia hydra Sainge & T.Franke	Thismiaceae		EU420990	EU421004	—	—	—	—
Albuca kirkii (Baker) Brenan	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Aletris farinosa L.	Nartheciaceae		AF309390	AY299706	—	—	—	—
Aletris lutea Small	Nartheciaceae		DQ786092	FJ215780	KF264492	—	—	—
Alisma plantago-aquatica L.	Alismataceae		AF197585	AF197717	AF197815	—	—	—
Alpinia zerumbet (Pers.) B.L.Burtt & R.M. Sm.	Zingiberaceae		—	—	—	—	—	JX088668
Alstroemeria aurea Graham	Alstroemeriaceae	Chase, M.W. 19990 (K)	KP420428	KP420384	KP420285	KP420327	KP420358	KC968976
Amborella trichopoda Baill.	Amborellaceae		—	—	—	—	—	NC_005086
Ananas comosus (L.) Merr.	Bromeliaceae		D29786	AY299710	—	—	—	—
Anigozanthos flavidus DC.	Haemodoraceae		AF069214	AF039246	—	—	—	—
Apteria aphylla (Nutt.) Barnhart ex Small	Burmanniaceae	Maas et al. 9662 (U)	DQ786034	EU421007	KP420311	—	—	—
Arachnitis uniflora Phil.	Corsiaceae	Bidartondo, M.I. et al., 2002, Nature 419	KP420410	KP420385	KP420286	KP420328	KP420359	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Arachnitis uniflora Phil. [plastid genome data only]	Corsiaceae	Neyland, R. 1928 (MCN)	—	—	—	—	—	KP462884
Asparagus officinalis L.	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Asplundia cf. venezuelensis Harling	Cyclanthaceae		KF264476	KF258580	KF258579	—	—	—
Asplundia rigida (Aubl.) Harling	Cyclanthaceae		KF264477	KF258578	KF258199	—	—	—
Barbacenia elegans (Balf.) Pax^	Velloziaceae		KF197081	KF197075	KF197105	—	—	—
Bismarckia nobilis Hildebr. & H.Wendl.	Arecaceae		—	—	—	—	—	JX088664
Bomarea edulis (Tussac) Herb.	Alstroemeriaceae	Chase, M.W. 520 (K)	KP420429	KP420386	KP420287	KP420356	KP420360	—
Brocchinia micrantha (Baker) Mez	Bromeliaceae		—	—	—	—	—	Givnish et al. (2010)*
Burmannia alba Mart.	Burmanniaceae		DQ786074	EU421008	—	—	—	—
Burmannia itoana Makino	Burmanniaceae	Kun-Ping Lo 821 (PPI)	DQ786078	EU421016	KP420323	—	—	—
Burmannia wallichii (Miers) Hook.f.	Burmanniaceae	Zhang s.n. (K)	DQ786069	EU421023	KP420312	—	—	—
Butomus umbellatus L.	Butomaceae		AH003489	AY299733	—	—	—	—
Buxus microphylla Siebold & Zucc.	Buxaceae		—	—	—	—	—	NC_009599
Calamus caryotoides A. Cunn ex Mart.	Arecaceae		—	—	—	—	—	JX088663
Calathea loeseneri J.F.Macbr.	Maranthaceae		AF069224	AY299735	—	—	—	—
Calectasia narragara R.L.Barrett & K.W.Dixon	Dasypogonaceae		—	—	—	—	—	JX088666
Calochortus venustus Douglas ex Benth.	Liliaceae	HBL20130196	KP420411	KP420387	KP420288	KP420329	KP420361	—
Calycanthus floridus var. *glaucus* (Willd.) Torr. & A. Gray	Calycanthaceae		—	—	—	—	—	NC_004993
Campylosiphon purpurascens Benth.	Burmanniaceae	Banki 1257 (U)	EU420996	EU421024	KP420313	—	—	—
Campynema lineare Labill.	Campynemataceae	Duretto, M.F. 1842 (K)	KP420430	KP420388	KP420289	KP420330	KP420362	KP462881
Campynemanthe viridiflora Baill.	Campynemataceae	Pillon, Barrabé, Maudet, Richard & Dumontet 24 (K)	KP420436	KP420389	KP420290	KP420331	KP420363	—
Canna indica L.	Cannaceae		D29785	AY299741	EU281101	—	—	—
Carludovica palmata Ruiz & Pav.	Cyclanthaceae	RBGB 19221361-	KF264479	KF258586	KF258204	KP420332	KP420364	—
Carludovica palmata Ruiz & Pav. [plastid genome only]	Cyclanthaceae	Chase, M.W. 14836 (K)	—	—	—	—	—	KP462882
Chamaedorea seifrizii Burret	Arecaceae		—	—	—	—	—	JX088667
Chamaelirium luteum (L.) A.Gray	Melanthiaceae		AF206884	AY299745	—	DQ916679	JX182960	—
Chlorophytum rhizopendulum Bjorå & Hemp	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Colchicum autumnale L.	Colchicaceae	RBGB 19630413-	KP420412	KP420390	KP420291	KP420333	KP420365	—
Corsia cf. *boridiensis* P.Royen	Corsiaceae	Lyon, S., SPL470-2, PNG (L)	KP420415	KP420392	KP420294	KP420336	KP420368	KP462885
Corsia cf. *brassii* P.Royen	Corsiaceae	Lyon, S., SPL468, PNG (L)	KP420413	KP420407	KP420292	KP420334	KP420366	—
Corsia cf. *huonensis* P.Royen	Corsiaceae	Lyon, S., SPL446, PNG (L)	KP420414	KP420391	KP420293	KP420335	KP420367	—
Clintonia borealis (Aiton) Raf.	Liliaceae		AF168833	AY299748	—	DQ916676	JX182944	—
Croomia pauciflora (Nutt.) Torr.	Stemonaceae		AF168835	AF197708	AF197735	—	—	—
Cyclanthus bipartitus Poit. ex A.Rich.	Cyclanthaceae		KF264480	KF258587	KF258205	—	—	—
*Gymnosiphon refractus (*Miers) Benth. & Hook.f.^	Burmanniaceae	Kress s.n. (US)	DQ786038	EU421025	KP420314	—	—	—
Cyperus alternifolius L.	Cyperaceae		AY952404	DQ401297	DQ401381	—	—	—
Cypripedium calceolus L.	Orchidaceae		AF069208	AY299755	DQ110336	—	—	—
Dasypogon sp.	Dasypogonaceae		AJ417898	AY124503	—	—	—	—
Dasypogon bromeliifolius R.Br.	Dasypogonaceae		—	—	—	—	—	Givnish et al. (2010)*
Dicranopygium atrovirens (H.Wendl.) Harling	Cyclanthaceae		KF264481	KF258588	KF258203	—	—	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Dictyostega orobanchoides (Hook.) Miers	Burmanniaceae	Maas et al. 9620 (U)	DQ786056	EU421026	KP420315	—	—	—
Dioscorea althaeoides R.Knuth	Dioscoreaceae	RBGE 19940649	EU420997	EU421027	KP420324	—	—	—
Dioscorea communis (L.) Caddick & Wilkin	Dioscoreaceae		EU186223	AY277804	KF298370	DQ916732	—	—
Dioscorea elephantipes (L'Hér.) Engl.	Dioscoreaceae		—	—	—	—	—	NC_009601
Dioscorea prazeri Prain & Burkill	Dioscoreaceae	Wilkin 878 (K)	DQ786089	EU421028	KP420316	—	—	—
Dioscorea rockii Prain & Burkill	Dioscoreaceae		DQ786090	EU421029	KF264495	—	—	—
Dioscorea sp.	Dioscoreaceae		DQ786090	EU421029	KF264495	DQ916732	DQ406959	—
Drimys granadensis L.f.	Winteraceae		—	—	—	—	—	NC_008456
Elaeis oleifera (Kunth) Cortés	Arecaceae		—	—	—	—	—	EU016883–EU016962
Flagellaria indica L.	Flagellariaceae		AF206913	AF039248	—	—	—	—
Freycinetia cumingiana Gaudich.	Pandanaceae		KF298366	KF298286	KF298292	—	—	—
Freycinetia philippinensis Hemsl.	Pandanaceae		KF298381	KF298288	KF298294	—	—	—
Freycinetia sp. 1	Pandanaceae		KF298367	KF298289	KF298295	—	—	—
Freycinetia sp. 2	Pandanaceae		KF298362	KF298291	KF298297	—	—	—
Fritillaria taipaiensis P.Y.Li	Liliaceae		—	—	—	—	—	NC_023247
Geomitra clavigera Becc.	Burmanniaceae		AF309405	EU421049	—	—	—	—
Gloriosa modesta (Hook.) J.C.Manning & Vinn.	Colchicaceae	RBGB 20000067-25	KP420421	KP420397	KP420300	KP420342	KP420374	—
Gloriosa superba L. 1	Colchicaceae	HBL20140588	KP420417	KP420394	KP420296	KP420338	KP420370	—
Gloriosa superba L. 2	Colchicaceae	RBGB 19832234-	KP420416	KP420393	KP420295	KP420337	KP420369	—
Gymnosiphon bekensis Letouzey	Burmanniaceae	Merckx et al. 117 (LV)	EU420998	EU421031	KP420317	—	—	—
Gymnostachys anceps R.Br.	Araceae		AF069200	AF039244	—	—	—	—
Hanguana malayana (Jack) Merr.	Hanguanaceae		AF387604	AY299775	—	—	—	—
Haplothismia exannulata Airy Shaw	Thismiaceae	Sasidharan & Sujanapal 30476 (KFRI)	DQ786082	EU421037	KP420318	—	—	—
Heliconia collinsiana Griggs	Heliconiaceae		—	—	—	—	—	JX088660
Heliconia rostrata Ruiz & Pav.	Heliconiaceae		AF168850	AY299778	—	—	—	—
Hesperaloe parviflora (Torr.) J.M.Coult.	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Hexapterella gentianoides Urb.	Burmanniaceae	Maas et al. 9614 (U)	DQ786057	EU421038	KP420325	—	—	—
Hordeum vulgare L.	Poaceae		—	—	—	—	—	NC_008590
Hosta ventricosa Stearn	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Illicium oligandrum Merr. & Chun	Schisandraceae		—	—	—	—	—	NC_009600
Isotria verticillata (Muhl. ex Willd.) Raf.	Orchidaceae		AF135204	AY299788	—	—	—	—
Ixiolirion tataricum (Pall.) Schult. & Schult.f.	Ixioliriaceae		AF206940	AY299789	—	—	—	—
Japonolirion osense Nakai	Petrosaviaceae		AF206942	AY299790	—	—	—	JQ068951–JQ069028
Joinvillea ascendens Gaudich. ex Brongn. & Gris	Joinvilleaceae		AF168855	AY124519	—	—	—	—
Kihansia sp.	Triuridaceae		KF197095	KF197072	KF197113	—	—	—
Kingia australis R.Br.	Dasypogonaceae		—	—	—	—	—	JX051651
Kupea martinetugei Cheek & S.A.Williams	Triuridaceae		KF197093	KF298373	KF197112	—	—	—
Lapageria rosea Ruiz & Pav.	Philesiaceae	HBL20110165	KP420418	KP420395	KP420297	KP420339	KP420371	—
Lemna minor L.	Araceae		—	—	—	—	—	NC_010109
Lilium auratum Lindl.	Liliaceae	HBL20140587	KP420419	KP420408	KP420298	KP420340	KP420372	—
Lilium henryi Baker	Liliaceae	RBGB 20120193-65	KP420420	KP420396	KP420299	KP420341	KP420373	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Lilium longiflorum Thunb.	Liliaceae		—	—	—	—	—	KC968977
Lillium superbum L.	Liliaceae	Chase, M.W. 112 (NCU)	AF206952	AY299797	—	DQ916677	—	KP462883
Liriodendron tulipifera L.	Magnoliaceae		—	—	—	—	—	NC_008326
Lophiola aurea Ker Gawl.	Nartheciaceae		DQ786091	EU421039	—	—	—	—
Ludovia lancifolia Brongn.	Cyclanthaceae		KF264482	KF258589	KF258202	—	—	—
Luzuriaga radicans Ruiz & Pav.	Alstroemeriaceae	Chase, M.W. 499 (K)	KP420431	KP420398	KP420301	KP420343	KP420375	—
Metanarthecium luteo-viride Maxim.	Nartheciaceae		AF309410	EU421040	—	—	—	—
Monocostus uniflorus (Poepp. ex Petersen) Maas	Costaceae		AF168861	AY299804	—	—	—	—
Musa acuminata Colla	Musaceae		—	—	—	—	—	EU016983–EU017063
Nandina domestica Thunb.	Berberidaceae		—	—	—	—	—	NC_008336
Narthecium ossifragum (L.) Huds.	Nartheciaceae		AF309411	AY299809	KF264496	DQ916670	—	—
Neoregelia carolinae (Beer) L.B.Sm.	Bromeliaceae		—	—	—	—	—	Givnish et al. (2010)*
Neuwiedia veratrifolia Blume	Orchidaceae		AF168863	AY299813	—	—	—	—
Nietneria paniculata Steyerm.	Nartheciaceae		EU186219	EU421041	KF264497	—	—	—
Nolina atopocarpa Bartlett	Asparagaceae		—	—	—	—	—	Givnish et al. (2010)*
Nuphar advena (Aiton) W.T.Aiton	Nymphaeaceae		—	—	—	—	—	NC_008788
Nypa fruticans Wurmb	Araceaceae		AY012357	NFU58833	AY289674	—	—	—
Oncidium 'Gower Ramsey'	Orchidaceae		—	—	—	—	—	NC_014056
Orontium aquaticum L.	Araceae		AF293753	AY299816	AF197745	DQ916648	DQ406996	Henriquez et al. (2014)
Oryza sativa L.	Poaceae		—	—	—	—	—	NC_001320
Pandanus baptistii Misonne	Pandanaceae		KF298360	KF298305	KF298319	—	—	—
Pandanus cf. *dubius* Spreng.	Pandanaceae		KF298359	KF298306	KF298320	—	—	—
Pandanus furcatus Roxb.	Pandanaceae		KF298358	KF298307	KF298321	—	—	—
Pandanus labyrinthicus Kurz ex Miq.	Pandanaceae		KF298357	KF298308	KF298322	—	—	—
Pandanus montanus Bory	Pandanaceae		KF298356	KF298309	KF298323	—	—	—
Pandanus pacificus J.H.Veitch	Pandanaceae		KF298355	KF298310	KF298324	—	—	—
Pandanus purpurascens Thouars	Pandanaceae		KF298354	KF298311	KF298325	—	—	—
Pandanus sp. 1	Pandanaceae		KF298364	KF298312	KF298326	—	—	—
Pandanus sp. 2	Pandanaceae		KF298361	KF298304	KF298318	—	—	—
Pandanus stenophyllus Kurz ex Miq.	Pandanaceae		KF298353	KF298313	KF298327	—	—	—
Pandanus tectorius Parkinson ex Du Roi	Pandanaceae		KF298352	KF298314	KF298328	—	—	—
Pandanus utilis Bory	Pandanaceae		KF298350	KF298316	KF298330	—	—	—
Pandanus veitchii Mast.	Pandanaceae	RBGB 19270660-	KF298349	KF298317	KF298331	KP420344	KP420376	—
Pentastemona sumatrana Steenis	Stemonaceae		KF264490	KF264506	KF298369	—	—	—
Petermannia cirrosa F.Muell.	Petermanniaceae	Briggs, B.G. 10025 (NSW)	KP420422	KP420409	—	KP420357	JX182963	—
Petrosavia stellaris Becc.	Petrosaviaceae		AF206987	AY299821	—	—	—	—
Phalaenopsis aphrodite Rchb.f.	Orchidaceae		—	—	—	—	—	NC_007499
Pharus sp.	Poaceae		AM774510	AY124524	—	—	—	—
Philesia magellanica J.F.Gmel.	Philesiaceae	RBGB 19850151-	KP420423	KP420399	KP420302	KP420345	KP420377	—
Philydrella pygmaea (R.Br.) Caruel	Philydrellaceae		AF206990	AY299823	—	—	—	—
Phoenix sp.	Arecaceae		AF206991	PRU58831	EU281116	—	—	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Phoenix dactylifera L.	Arecaceae		—	—	—	—	—	NC_013991
Phytelephas aequatorialis Spruce	Arecaceae		AY012398	AY299825	—	—	—	—
Piper cenocladum C.DC.	Piperaceae		—	—	—	—	—	NC_008457
Platanus occidentalis L.	Platanaceae		—	—	—	—	—	NC_008335
Pleea tenuifolia Michx.	Tofieldiaceae		AF206995	AY299827	AF197743	—	—	—
Pontederia cordata L.	Pontederiaceae		AF206998	AY299828	EU281117	—	—	—
Pseudophoenix vinifera (Mart.) Becc.	Arecaceae		—	—	—	—	—	JX088662
Puya laxa L.B.Sm.	Bromeliaceae		—	—	—	—	—	Givnish et al. (2010)*
Ravenala madagascariensis Sonn.	Strelitziaceae		AF069228	AY299830	—	—	—	—
Ripogonum discolor F.Muell.	Ripogonaceae		—	AY299831	—	JX182924	JX182965	—
Ripogonum elseyanum F.Muell.	Ripogonaceae	Chase, M.W. 187 (K)	KP420432	KP420400	KP420303	KP420346	KP420378	—
Saccharum officinarum L.	Poaceae		—	—	—	—	—	NC_006084
Scheuchzeria palustris L.	Scheuchzeriaceae		AF069202	AY277803	—	—	—	—
Sciaphila albescens Benth.	Triuridaceae		KF197090	KF197073	KF298377	—	—	—
Sciaphila ledermannii Engl.	Triuridaceae		KF197088	KF197070	KF197109	—	—	—
Sciaphila nana Blume	Triuridaceae		KF197085	KF197076	KF197107	—	—	—
Sciaphila picta Miers	Triuridaceae		KF197084	KF298368	KF197106	—	—	—
Sciaphila purpurea Benth.	Triuridaceae		KF197083	KF197079	KF298379	—	—	—
Sciaphila quadribullifera J.J.Sm.	Triuridaceae		KF197082	KF197078	KF298371	—	—	—
Sciaphila sp.	Triuridaceae		KF264483	KF258583	KF258193	—	—	—
Seychellaria africana Vollesen	Triuridaceae		KF264485	KF258584	KF258195	—	—	—
Smilax aspera L.	Smilacaceae	HBLA00716-04649	KP420433	—	KP420304	KP420347	KP420379	—
Smilax china L.	Smilacaceae	RBGB 19991503-	KP420424	KP420401	KP420305	KP420348	KP420380	HM536959
Sorghum bicolor (L.) Moench	Poaceae		—	—	—	—	—	NC_008602
Sparganium eurycarpum Engelm.	Typhaceae		AF069220	AY124509	—	—	—	—
Sparganium sp.	Typhaceae		AF069220	AY124509	DQ401396	—	—	—
Spirodela polyrhiza (L.) Schleid.	Araceae		—	—	—	—	—	NC_015891
Stemona sp.	Stemonaceae		KF264491	KF264505	KF258200	—	—	—
Stemona tuberosa var. *ternatensis* (J.J.Sm.) Duyfjes	Stemonaceae	HBL910374	KF298348	KF264504	KF258201	KP420349	—	—
Stenomeris dioscoreifolia Planch.	Dioscoreaceae		DQ786087	EU421042	—	—	—	—
Strelitzia nicolai Regel & K.Koch	Strelitziaceae		AF069229	AY299843	—	—	—	—
Strelitzia sp.	Strelitziaceae		AF069229	AY299843	AY453112	—	—	—
Syringodium filiforme Kütz.	Cymodoceaceae		AF168876	DQ859116	—	—	—	—
Tacca artocarpifolia Seem.	Taccaceae	Caddick 305 (K)	AF309397	EU421043	KP420326	—	—	—
Tacca chantieri André	Taccaceae		DQ786086	EU421044	DQ401377	—	DQ406941	—
Tacca integrifolia Ker Gawl.	Taccaceae		DQ786085	EU421045	KF264494	—	—	—
Tacca palmata Blume	Taccaceae	Chase 6201 (K)	EU421000	EU421046	KP420319	—	—	—
Tacca plantaginea (Hance) Drenth	Taccaceae	Leiden BG 920520	TPU42063	EU421047	KP420322	—	—	—
Tapeinochilos sp.	Costaceae		AH003649	AY299846	—	—	—	—
Thismia panamensis (Standl.) Jonker	Thismiaceae	Aizprua 2946 (LV)	DQ786081	EU421050	KP420320	—	—	—
Thismia rodwayi F.Muell.	Thismiaceae	P. Garnock-Jones 2218 (WELTU)	AF309403	AY299849	KP420321	—	—	—

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*cob*	*nad5*	Plastid genome
Tecophilaea cyanocrocus Leyb.	Tecophilaeaceae		AF207036	AY299848	—	—	—	—
Tofieldia calyculata (L.) Wahlenb.	Tofieldiaceae		AF207043	AY299851	AF197744	—	—	—
Tradescantia ohiensis Raf.	Commelinaceae		—	—	—	—	—	Givnish et al. (2010)*
Trichopus sempervirens (H.Perrier) Caddick & Wilkin	Dioscoreaceae		AF309395	JN850565	KF264493	—	—	—
Trichopus zeylanicus Gaertn.	Dioscoreaceae		AF309394	AY277805	—	—	—	—
Tricyrtis formosana Baker	Liliaceae	HBL20077020	KP420434	KP420402	KP420306	KP420350	—	—
Tricyrtis hirta (Thunb.) Hook.	Liliaceae	HBL967484	KP420435	KP420403	KP420307	KP420351	—	—
Triglochin maritimum L.	Juncaginaceae		AF197586	AF197716	AF197725	—	—	—
Trillium cuneatum Raf.	Melanthiaceae	HBL20107053	KP420425	KP420404	KP420308	KP420352	KP420381	—
Trillium grandiflorum (Michx.) Salisb.	Melanthiaceae		AF168879	AF039253	DQ110364	DQ916682	JX182961	—
Triticum aestivum L.	Poaceae		—	—	—	—	—	NC_002762
Triuris hexophthalma Maas	Triuridaceae		KF264487	KF258585	KF258197	—	—	—
Triuris hyalina Miers	Triuridaceae		KF264489	KF258582	KF298374	—	—	—
Typha latifolia L.	Typhaceae		—	—	—	—	—	NC_013823
Vellozia elegans (Balf.) Talbot ex Hook.f.	Velloziaceae	HBLA86167	KF197080	KF197074	KF197104	KP420353	KP420382	—
Veratrum album L.	Melanthiaceae	HBL A.15.02 (Clusius garden)	KP420426	KP420405	KP420309	KP420354	KP420383	—
Veratrum nigrum L.	Melanthiaceae	HBL A.15.04 (Clusius garden)	KP420427	KP420406	KP420310	KP420355	—	—
Veratrum patulum O.Loes.	Melanthiaceae		—	—	—	—	—	NC_022715
Vitis vinifera L.	Vitaceae		—	—	—	—	—	NC_007957
Wolffia australiana (Benth.) Hartog & Plas	Araceae		—	—	—	—	—	NC_015899
Wolffiella lingulata (Hegelm.) Hegelm.	Araceae		—	—	—	—	—	NC_015894
Xiphidium caeruleum Aubl.	Haemodoraceae		—	—	—	—	—	JX088669
Xeronema callistemon W.R.B.Oliv.	Xeronemataceae		AF207056	AY299857	—	—	—	—
Xerophyllum tenax (Pursh) Nutt.	Melanthiaceae		AF207057	JX182888	—	JX182921	JX182958	—
Yucca schidigera Roezl ex Ortgies	Asparagaceae		—	—	—	—	—	DQ069337–DQ069702; EU016681–EU016700
Zea mays L.	Poaceae		—	—	—	—	—	NC_001666
Zingiber spectabile Griff.	Zingiberaceae		—	—	—	—	—	JX088661
Zostera marina L.	Zosteraceae		HQ445940	DQ859121	—	—	—	—

*This study reports the accession numbers for individual genes in the plastid genome data

Chapter 4

Species	Family	Voucher (only applies to new sequences)	ITS	*matK*
Acacia longifolia (Andrews) Willd.	Fabaceae		JF420111	HM850600
Atroxima afzeliana (Oliv. Ex Chodat) Stapf	Polygalaceae		GQ888877	EU604049
Bredemeyera floribunda Willd.	Polygalaceae		GQ888883	EU596520
Carpolobia alba G.Don	Polygalaceae		GQ888885	EU604053
Comesperma esulifolium (Gand.) Prain	Polygalaceae		GQ888889	EU596516
Epirixanthes elongata Blume 1	Polygalaceae	CM030 (L)	KM982697	KR002164
Epirixanthes elongata Blume 2	Polygalaceae	CM032 (L)	KM982698	KR002165
Epirixanthes elongata Blume 3	Polygalaceae	WJJO de Wilde & BEE de Wilde-Duyfjes 18791 (L)	KM982699	—

Species	Family	Voucher (only applies to new sequences)	ITS	*matK*
Epirixanthes kinabaluensis T.Wendt	Polygalaceae	CM013 (L)	KM982700	KR002166
Epirixanthes pallida T.Wendt 1	Polygalaceae	CM004 (L)	KM982701	KR002167
Epirixanthes pallida T.Wendt 2	Polygalaceae	CM006 (L)	KM982702	KR002168
Epirixanthes pallida T.Wendt 3	Polygalaceae	CM001-1 (L)	KM982703	KR002169
Epirixanthes pallida T.Wendt 4	Polygalaceae	CM001-2 (L)	KM982704	KR002170
Epirixanthes pallida T.Wendt 5	Polygalaceae	CM002-1 (L)	KM982705	KR002171
Epirixanthes pallida T.Wendt 6	Polygalaceae	CM002-2 (L)	KM982706	KR002172
Epirixanthes pallida T.Wendt 7	Polygalaceae	CM007-1 (L)	KM982707	KR002173
Epirixanthes pallida T.Wendt 8	Polygalaceae	CM007-2 (L)	KM982708	KR002174
Epirixanthes pallida T.Wendt 9	Polygalaceae	CM009 (L)	KM982709	KR002175
Epirixanthes papuana J.J.Sm.	Polygalaceae	CM011 (L)	KM982710	KR002176
Eriandra fragrans P.Royen & Steenis	Polygalaceae		GQ888891	EU604051
Medicago sativa L.	Fabaceae		AF053142	AY386881
Monnina xalapensis Kunth	Polygalaceae		GQ888909	EU604047
Muraltia karroica Levyns	Polygalaceae	Victor 139 (K)	KM982711	KR002177
Nylandtia spinosa (L.) Dumort.	Polygalaceae	Chase, M.W. 281 (K)	KM982712	KR002178
Polygala alpicola Rupr.	Polygalaceae		GQ888923	EU604041
Polygala amara L.	Polygalaceae	Schönswetter & Tribsch 614 (K)	KM982713	KR002179
Polygala californica Nutt.	Polygalaceae		GQ888937	AY386842
Polygala chamaebuxus L.	Polygalaceae		GQ888939	FR865062
Polygala comosa Schkuhr	Polygalaceae		GQ888941	EU362027
Polygala costaricensis Chodat ex T.Durand & Pittier	Polygalaceae		GQ888943	JQ588826
Polygala longicaulis Kunth	Polygalaceae		GQ888981	JQ588832
Polygala myrtifolia L.	Polygalaceae		GQ888988	EU604043
Polygala paniculata L.	Polygalaceae		GQ888995	EU596518
Polygala pauciflora Schltr.	Polygalaceae		GQ888996	HQ593391
Polygala senega L.	Polygalaceae		AJ812649	EU604034
Polygala violaceae Aubl.	Polygalaceae		GQ889040	EU604035
Polygala vulgaris L.	Polygalaceae		GQ889042	EU604046
Salomonia cantoniensis Lour.	Polygalaceae	WJJO de Wilde & BEE de Wilde-Duyfjes 21409 (L)	KM982714	KR002180
Salomonia ciliata (L.) DC.	Polygalaceae	K'tung 78 6390 (L)	KM982715	KR002181
Securidaca diversifolia (L.) S.F.Blake	Polygalaceae		GQ889047	JQ588835
Securidaca longipedunculata Fresen.	Polygalaceae		GQ889049	JX517755
Securidaca retusa Benth.	Polygalaceae		GQ889051	EU604029
Xanthophyllum sp.	Polygalaceae		GQ889055	EU604044

Chapter 5

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*cob*	*matK*	*rbcL*	*rps4*	*trnL-F*
Agave sp.	Asparagaceae		AF206841	AY299703	AY832076	HM640592	HM640478	X84109	AF508509
Allium sp.	Amaryllidaceae		JN797262	AY299707	JQ421522	JF972927	JQ273896	JQ274289	FJ628602

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*cob*	*matK*	*rbcL*	*rps4*	*trnL-F*
Aloe sp.	Xanthorrhoeaceae		JQ283935	JQ421658	JQ421547	AY323724	AJ512283	JQ274300	AJ290255/ AJ290289
Amaryllis belladonna L.	Amaryllidaceae		JQ283909	JQ421646	JQ421532	JX903555	JQ273899	JQ274292	JX464334
Aristea sp.	Iridaceae		AF206854	JQ421699	JQ421596	AJ579933	AF206736	Z68232	AJ290285/ AJ290319
Asparagus sp.	Asparagaceae		GU217543	AF197713	JQ421544	AB646503	HQ182417	JQ274297	AF508514
Asphodeline sp.	Xanthorrhoeaceae		JQ283940	JQ421659	JQ421548	JX903600	JQ273908	JQ274301	AB933518
Asphodelus sp.	Xanthorrhoeaceae		HM640760	AY299721	JQ421549	AJ511415	AJ512314	—	AB933516
Astelia sp.	Asteliaceae		HM640762	AY299722	JQ421555	AY368372	AF307906	—	HM459530
Babiana sp.	Iridaceae		—	JQ421700	JQ421597	GQ381376	GQ381614	Z68234	GQ982571
Blandfordia sp.	Blandfordiaceae		AF206869	AY299727	DQ916655	JX903609	Z73694	—	HM459535
Borya sp.	Boryaceae		AF206872	AY299728	DQ916656	AY368373	AF206741	—	—
Bulbine sp.	Xanthorrhoeaceae		AF206876	JQ421660	JQ421550	AJ511414	AJ512323	—	AJ290260/ AJ290294
Calochortus sp.	Liliaceae		KP420411	KP420387	KP420329	JN417362	AF275986	—	AY430700/ AY430629
Calopogon sp.	Orchidaceae		—	AY299738	DQ916664	AF263635	AF074119	—	AF519913
Chasmanthe aethiopica (L.) N.E.Br.	Iridaceae		—	JQ421701	JQ421598	AJ579938	AJ309660	AJ409022	AJ409572
Cordyline sp.	Asparagaceae		JQ283903	JQ421715	JQ421613	JX903595	JQ273919	JQ274312	KC428478
Crocus sp.	Iridaceae		AJ489273	JQ421702	JQ421599	JX903624	JX903214	Z68237	AJ409580
Cypripedium calceolus L.	Orchidaceae		AF069208	AY299755	DQ916665	AY557208	EF370100	—	AY557224
Dendrobium sp.	Orchidaceae		AB027309			AB519772	AB519785	—	EF397919
Dianella sp.	Xanthorrhoeaceae		GQ497575	AY299756	DQ916658	AB088787	FJ707498	—	FJ707507
Doryanthes excelsa Corrêa	Doryanthaceae		HM640766	AY299760	DQ916657	AB088785	HM640534	AJ409053	AJ232440/ AJ290315
Echeandia sp.	Asparagaceae		JQ283933	DQ859075	DQ859087	JQ276386	JQ273891	JQ274284	AF117014/ AF117039
Ennealophus sp.	Iridaceae		—	JQ421704	JQ421601	AJ579950	JQ670533	JQ670293	AJ409598
Epipactis sp.	Orchidaceae		—	AY299766	DQ916666	KF419099	KF419090	—	—
Eremurus sp.	Xanthorrhoeaceae		HM640759	JQ421661	JQ421551	AJ511418	AJ512324	—	AB933501
Eriospermum sp.	Asparagaceae		JQ283932	JQ421672	JQ421565	JQ276418	JQ273923	JQ274316	AJ247494/ AJ247495
Geosiris sp.	Iridaceae		EU816707	JQ421705	JQ421602	AJ579955	Z77285	AJ409045	AJ409616
Gladiolus sp.	Iridaceae		L54062	JQ421706	JQ421603	HQ394384	HM850030	Z68256	AJ409574
Haworthia sp.	Xanthorrhoeaceae		JQ283936	JQ421662	JQ421552	AY323714	AJ512318	JQ274302	AJ290265/ AJ290299
Hemerocallis sp.	Xanthorrhoeaceae		HM640769	AY299780	DQ916659	JX903612	L05036	—	FJ707513
Herbertia sp.	Iridaceae		—	JQ421698	JQ421595	AJ580620	JQ670541	AJ409042	JQ670618
Hypoxis sp.	Hypoxidaceae		HM640771	AY299784	DQ916661	JX903619	HM640539	—	HM459501
Iris sp.	Iridaceae		JQ283937	DQ401300	JQ421604	HM574678	D28332	FM253430	EU939491
Isophysis tasmanica (Hook.) T.Moore	Iridaceae		L54063	JQ421708	JQ421605	AJ579963	JX903219	Z68243	AJ290283/ AJ290317
Ixiolirion tataricum (Pall.) Schult. & Schult.f.	Ixioliriaceae		HM640775	AY299789	DQ916731	AJ579965	HM640543	AJ409051	AJ290280/ AJ290314

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*cob*	*matK*	*rbcL*	*rps4*	*trnL-F*
Klattia flava (G.J.Lewis) Goldblatt	Iridaceae		—	—	—	AJ579966	AJ309667	AJ409047	AJ409617
Kniphofia sp.	Xanthorrhoeaceae		JQ283934	AY299792	JQ421553	JX903605	JQ273910	JQ274303	AJ290267/ AJ290301
Lanaria lanata (L.) T.Durand & Schinz	Lanariaceae		GQ497576	JQ421713	JQ421610	AY368376	Z77313	—	HM459536
Moraea sp.	Iridaceae		—	JQ421709	JQ421606	AJ579971	GQ285140	Z68258	GQ294041
Neomarica sp.	Iridaceae		—	AY299812	DQ916662	AJ579972	AY298842	JQ670313	AJ409593
Neuwiedia sp.	Orchidaceae		AF168863	AY299813	JQ421619	AY557209	AF074200	—	AY557216
Nivenia corymbosa (Ker Gawl.) Baker	Iridaceae		—	JQ421710	JQ421607	AJ580622/ AJ580621	Z77289	Z68266	AJ290287/ AJ290321
Olsynium junceum (E.Mey. ex C.Presl) Goldblatt	Iridaceae		—	—	JQ421608	HQ606813	JQ670552	JQ670317	JQ670631
Ophrys sp.	Orchidaceae		—	—	—	HE858506	AJ542396	—	AJ409432
Orchis sp.	Orchidaceae		AF135194	—	—	JN895683	AF074203	—	AY014586
Pandanus utilis Bory	Pandanaceae		KF298350	KF298316	JQ421635	JX286875	HQ182443	HQ183091	JX287016
Patersonia sp.	Iridaceae		—	—	—	AJ580624/ AJ580623	AJ277879	Z68259	EU939523
Phormium tenax J.R.Forst. & G.Forst.	Xanthorrhoeaceae		JQ283929	JQ421685	JQ421581	JX903615	HQ182444	JQ274305	AY828229
Polianthes sp.	Asparagaceae		JQ283922	DQ859068	DQ859079	JQ276389	JQ273894	JQ274287	DQ500904/ DQ500938
Sisyrinchium angustifolium Mill.	Iridaceae		—	AY299837	DQ916663	KF577210	JQ670565	JQ670328	JQ670643
Smilax sp.	Smilacaceae		KP420433	KP420401	KP420305	KF782882	KJ719883	X84144	GU945057
Tecophilaea cyanocrocus Leyb.	Tecophilaeaceae		AF207036	AY299848	JQ421625	HM640661	HM640544	AJ409049	AJ290276/ AJ290310
Tigridia pavonia (L.f.) DC.	Iridaceae		—	JQ421711	JQ421609	AJ579987	AJ309680	JQ670350	AJ409594
Tricyrtis sp.	Melanthiaceae		KP420434	KP420403	KP420306	JN417361	AY465711	—	AY699229
Tritoniopsis unguicularis (Lam.) G.J.Lewis	Iridaceae		—	—	—	AJ579990	AJ30965	AJ409023	AJ409577
Vanilla sp.	Orchidaceae		FJ425762	FJ425825		FJ816098	AF074242	—	AY557223
Witsenia maura (L.) Thunb.	Iridaceae		—	—	—	AJ580628/ AJ580627	AJ277880	AJ409046	AJ290286/ AJ290320
Xanthorrhoea sp.	Xanthorrhoeaceae		JQ283930	AF039250	JQ421630	JX903650	JQ273935	JQ274328	AB933523
Yucca sp.	Asparagaceae		AF168882	DQ859073	DQ859084	AB088789	DQ069504	DQ069456	EU092602
Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*				
Afrothismia amiettii Cheek	Thismiaceae		na	na	na				
Afrothismia foertheriana T.Franke, Sainge & Agerer	Thismiaceae		EU420988	EU421002	—				
Afrothismia fungiformis	Thismiaceae		na	na	—				
Afrothismia gabonensis Dauby & Stévart	Thismiaceae		FJ215766	FJ215772	—				
Afrothismia gesnerioides H. Maas	Thismiaceae		EU420989	EU421003	na				
Afrothismia hydra Sainge & Franke	Thismiaceae		DQ786083	EU421004	—				
Afrothismia korupensis Sainge & T.Franke	Thismiaceae		EU420991	EU421005	na				
Afrothismia pusilla Sainge & Kenfack^	Thismiaceae		na	na	na				
Afrothismia winkleri (Engl.) Schltr.	Thismiaceae		EU420992	EU421006	—				

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*
Aletris farinosa L.	Nartheciaceae		EU186221	AY299706	—
Aletris lutea Small	Nartheciaceae		AB679359	FJ215780	KF264492
Apteria aphylla (Nutt.) Barnhart ex Small	Burmanniaceae		DQ786034	EU421007	na
Burmannia alba Mart.	Burmanniaceae		DQ786074	EU421008	—
Burmannia bicolor Mart.	Burmanniaceae		DQ786072	GQ469514	na
Burmannia biflora L.	Burmanniaceae		AF168827	GQ469515	na
Burmannia capitata (Walter ex J.F.Gmel.) Mart.	Burmanniaceae		DQ786065	EU421009	na
Burmannia congesta (C.H.Wright) Jonker	Burmanniaceae		DQ786061	EU421012	—
Burmannia damazii Beauverd	Burmanniaceae		DQ786071	EU421013	na
Burmannia disticha L.	Burmanniaceae		U59947	—	na
Burmannia flava Mart.	Burmanniaceae		DQ786077	EU421014	na
Burmannia hexaptera Schltr.	Burmanniaceae		EU420994	EU421015	na
Burmannia itoana Makino	Burmanniaceae		DQ786078	EU421016	na
Burmannia juncea Sol. ex R.Br.	Burmanniaceae		DQ786063	GQ469518	na
Burmannia kalbreyeri Oliv.	Burmanniaceae		na	—	na
Burmannia latialata Pobég.	Burmanniaceae		DQ786062	EU421017	na
Burmannia ledermannii Jonker	Burmanniaceae		DQ786079	—	na
Burmannia longifolia Becc.	Burmanniaceae		na	na	na
Burmannia lutescens Becc.	Burmanniaceae		AF309401	AY299732	na
Burmannia madagascariensis Baker	Burmanniaceae		EU420995	EU421019	na
Burmannia oblonga Ridl.	Burmanniaceae		GQ469513	EU421021	na
Burmannia pusilla (Miers) Thwaites	Burmanniaceae		DQ786075	—	na
Burmannia stuebelii Hieron. & Schltr.	Burmanniaceae		DQ786068	EU421022	na
Burmannia wallichii (Miers) Hook.f.	Burmanniaceae		DQ786069	EU421023	na
Campylosiphon purpurascens Benth.	Burmanniaceae		EU420996	EU421024	na
Gymnosiphon refractus (Miers) Benth. & Hook.f.^	Burmanniaceae		DQ786038	EU421025	na
Dictyostega orobanchoides (Hook.) Miers	Burmanniaceae		DQ786056	EU421026	na
Dioscorea althaeoides R.Knuth	Dioscoreaceae		EU420997	EU421027	na
Dioscorea bulbifera L.	Dioscoreaceae		AF069203	FJ215775	na
Dioscorea caucasica Lipsky	Dioscoreaceae		FJ215769	FJ215779	na

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*
Dioscorea communis (L.) Caddick & Wilkin	Dioscoreaceae		EU186223	AY277804	KF298370
Dioscorea elephantipes (L'Hér.) Engl.	Dioscoreaceae		FJ215767	FJ215777	na
Dioscorea prazeri Prain & Burkill	Dioscoreaceae		DQ786089	EU421028	na
Dioscorea rockii Prain & Burkill	Dioscoreaceae		DQ786090	EU421029	KF264495
Dioscorea sylvatica Eckl.	Dioscoreaceae		FJ215768	FJ215778	na
Dioscorea tokoro Makino ex Miyabe	Dioscoreaceae		DQ786088	FJ215776	na
Gymnosiphon aphyllus Blume	Burmanniaceae		AF309402	EU421030	na
Gymnosiphon bekensis Letouzey	Burmanniaceae		EU420998	EU421031	na
Gymnosiphon brachycephalus Snelders & Maas	Burmanniaceae	Maas 10504 (L)	na	na	na
Gymnosiphon breviflorus Gleason	Burmanniaceae		DQ786040	EU421032	na
Gymnosiphon capitatus (Benth.) Urb.	Burmanniaceae		DQ786054	EU421033	na
Gymnosiphon cf. *cymosus* (Benth.) Benth. & Hook.f.	Burmanniaceae	Merlijn Jocqué (219)	na	na	na
Gymnosiphon divaricatus (Benth.) Benth. & Hook.f.	Burmanniaceae		DQ786045	EU421034	na
Gymnosiphon longistylus (Benth.) Hutch.	Burmanniaceae		DQ786051	EU421035	na
Gymnosiphon minutus Snelders & Maas	Burmanniaceae		DQ786047	EU421036	na
Gymnosiphon recurvatus Snelders & Maas	Burmanniaceae		DQ786050	—	na
Gymnosiphon suaveolens (H.Karst.) Urb.	Burmanniaceae		U59942	—	na
Haplothismia exannulata Airy Shaw	Thismiaceae		DQ786082	EU421037	na
Hexapterella gentianoides Urb.	Burmanniaceae		DQ786057	EU421038	na
Lophiola aurea Ker Gawl.	Nartheciaceae		DQ786091	EU421039	—
Narthecium ossifragum (L.) Huds.	Nartheciaceae		AB679370	AY299809	KF264496
Nietneria paniculata Steyerm.	Nartheciaceae		EU186219	EU421041	KF264497
Stenomeris dioscoreifolia Planch.	Dioscoreaceae		DQ786087	EU421042	—
Tacca artocarpifolia Seem.	Taccaceae		AF309397	EU421043	na
Tacca chantieri André	Taccaceae		DQ786086	EU421044	DQ401377
Tacca integrifolia Ker Gawl.	Taccaceae		DQ786085	EU421045	KF264494
Tacca leontopetaloides (L.) Kuntze	Taccaceae		EU420999	JN850559	na
Tacca palmata Blume	Taccaceae		EU421000	JN850560	na
Tacca palmatifida Baker	Taccaceae		DQ786084	JN850561	na
Tacca plantaginea (Hance) Drenth	Taccaceae		U42063	JN850563	na
Thismia aseroe Becc.	Thismiaceae		AF309404	EU421048	na
Thismia clavarioides K.R.Thiele	Thismiaceae		KF692533	KF692539	na
*Thismia clavigera (*Becc.) F.Muell.	Thismiaceae		AF309405	EU421049	na
Thismia hillii (Cheeseman) N. Pfeifft.^	Thismiaceae		na	na	na
Thismia huangii P.Y.Jiang & T.H.Hsieh	Thismiaceae		KF692534	KF692543	na
Thismia megalongensis C.Hunt, G.Steenbeeke & V.Merckx^	Thismiaceae		na	na	na
Thismia panamensis (Standl.) Jonker	Thismiaceae		DQ786081	EU421050	na
Thismia rodwayi F.Muell.	Thismiaceae		KF692536	KF692542	na
Thismia taiwanensis Sheng Z.Yang, R.M.K.Saunders & C.J.Hsu	Thismiaceae		DQ786080	EU421051	na
Tiputinia foetida P.E.Berry & C.L.Woodw.	Thismiaceae		FJ215764	FJ215770	na

Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	
Trichopus sempervirens (H.Perrier) Caddick & Wilkin	Trichopodaceae		AF309395	JN850565	KF264493	
Trichopus zeylanicus Gaertn.	Trichopodaceae		AF309394	AY277805	na	
Species	Family	Voucher (only applies to new sequences)	18S rDNA	*atpA*	*matR*	*nad1b-c*
Sciaphila cf. *dolichostyla* Schltr.	Triuridaceae	Pillon 585 Vanuatu	na	na	na	na
Sciaphila polygyna Maas	Triuridaceae	Maas 10507	na	na	na	na
Sciaphila sp. 2	Triuridaceae	Jourdan et al. 1 New Caledonia (228)	na	na	na	na
Sciaphila sp. 3	Triuridaceae	SPL 440 PNG (L)	na	na	na	na
Species	Family	Voucher (only applies to new sequences)	ITS	*matK*	*trnL*	
Anthocleista amplexicaulis Baker	Gentianaceae		DQ449914	AJ388206/ AJ388137	AF102375	
Anthocleista grandiflora Gilg	Gentianaceae		DQ449916	JX518238	AJ490190	
Anthocleista vogelii Planch.	Gentianaceae		DQ449915	AJ388208/ AJ388139	AF102377	
Bartonia paniculata (Michx.) Muhl.	Gentianaceae		EU812470	KF496065	KF501344	
Bartonia verna (Michx.) Raf. ex Barton	Gentianaceae		EU812473	KF496071	EU834128	
Bartonia virginica (L.) Britton, Sterns & Poggenb.	Gentianaceae		EU812474	AJ388210/ AJ388141	AF102383	
Bisgoeppertia sp.	Gentianaceae		FJ232556	AJ512343/ AJ512342	AJ512341	
Calolisianthus sp.	Gentianaceae		EU709787	AJ388211/ AJ388142	AF102388	
Canscora diffusa (Vahl) R.Br. ex Roem. & Schult.	Gentianaceae		AJ489867	AJ388212/ AJ388143	AF102389	
Centaurium erythraea Rafn	Gentianaceae		KC535851	JN894719	AF402247	
Chelonanthus alatus (Aubl.) Pulle	Gentianaceae		EU709790	JQ587941	AJ490194	
Chelonanthus angustifolius (Kunth) Gilg	Gentianaceae		AJ489869	—	—	
Chelonanthus purpurascens (Aubl.) Struwe, S.Nilsson & V.A.Albert	Gentianaceae		EU709791	AJ388215/ AJ388146	AF102398	
Chironia baccifera L.	Gentianaceae		AJ489871	AJ011438/ AJ010509	AY251746	
Comastoma pulmonarium (Turcz.) Toyok.	Gentianaceae		AF346008	KC861240	AJ315225	
Comastoma tenellum (Rottb.) Toyok.	Gentianaceae		AJ580552	AJ388218/ AJ388149	GQ244819	
Comastoma traillianum (Forrest) Holub	Gentianaceae		DQ317493	KC861276	AJ315186	
Coutoubea spicata Aubl.	Gentianaceae		EU709780	AJ388219/ AJ388150	AY251745	
Crawfurdia speciosa C.B.Clarke	Gentianaceae		GU251021	AJ011441/ AJ010512	AJ408000	
Curtia tenuifolia (Aubl.) Knobl.	Gentianaceae		AJ242613+ AJ242614	AJ388220/ AJ388151	AJ242606	
Emmenopterys henryi Oliv.	Rubiaceae		KC535853	FJ905360	AF152637	
Eustoma sp.	Gentianaceae		AJ489875	AJ011443/ AJ010514	AF102415	
Exacum paucisquamum (C.B.Clarke) Klack.	Gentianaceae		AJ489874	—	—	

Species	Family	Voucher (only applies to new sequences)	ITS	*matK*	*trnL*
Exacum tetragonum Roxb.	Gentianaceae		AJ489908	AJ388225/ AJ388156	AF102418
*Exochaenium oliganthum (*Gilg) Kissling^	Gentianaceae		FJ666024	—	FJ014155
Fagraea berteroana A.Gray ex Benth.	Gentianaceae		DQ449918	AJ388226/ AJ388157	AF102419
Fagraea elliptica Roxb.	Gentianaceae		FJ232579	AJ388227/ AJ388158	AF102420
Fagraea fragrans Roxb.	Gentianaceae		FJ232574	AB925025	AF102421
Fagraea racemosa Jack^	Gentianaceae		FJ232577	AB925042	JX217774
Gelsemium sempervirens (L.) J.St.-Hil.	Gelsemiaceae		DQ358881	AJ429322	AF102428
Gentiana asclepiadea L.	Gentianaceae		AJ580549	AJ388235/ AJ388165	AB453085
Gentiana crassicaulis Duthie ex Burkill	Gentianaceae		DQ398637	KC861278	KJ947654
Gentiana cruciata L.	Gentianaceae		DQ398635	KJ746189	AF102434
Gentiana dahurica Fisch.	Gentianaceae		DQ398633	KC861280	KM226748
Gentiana dinarica Beck	Gentianaceae		KC535854	KF536676	X77882
Gentiana lhassica Burkill	Gentianaceae		DQ398629	KJ947443	KJ947678
Gentiana macrophylla Pall.	Gentianaceae		DQ398653	GQ434141	KM226741
Gentiana manshurica Kitag.	Gentianaceae		GQ864018	JN162098	GQ864091
Gentiana officinalis Harry Sm.	Gentianaceae		DQ398639	KM226692	KM226747
Gentiana rigescens Franch. ex Hemsl.^	Gentianaceae		GQ864022	JN162100	AB453084
Gentiana robusta King ex Hook.f.	Gentianaceae		DQ398643	KJ947408	KJ947645
Gentiana scabra Bunge	Gentianaceae		GQ864016	JN162094	AB453094
Gentiana siphonantha Maxim. ex Kusn.	Gentianaceae		DQ398642	KM226689	AB453073
Gentiana straminea Maxim.	Gentianaceae		FJ980363	KC861282	KM226749
Gentiana tibetica King ex Hook.f.	Gentianaceae		DQ398641	KJ947423	AB453068
Gentiana triflora Pall.	Gentianaceae		GQ864020	JN162095	AB453103
Gentiana waltonii Burkill	Gentianaceae		DQ398627	KJ947440	KJ947675
Gentianella amarella (L.) Harry Sm.	Gentianaceae		AJ580573	JN896137	GQ245001
Gentianella aspera (Hegetschw. & Heer) Dostál ex Skalický, Chrtek & Gill	Gentianaceae		AJ580560	AJ295335/ AJ295334	X77872
Gentianella azurea (Bunge) Holub	Gentianaceae		AF346014	KC935906	AJ408006
Gentianella bellidifolia (Hook.f.) Holub	Gentianaceae		AY136498	AJ388232/ AJ388162	AF102401
Gentianella campestris (L.) Börner	Gentianaceae		AF346005	JN895553	X77877
Gentianella germanica (Willd.) Börner	Gentianaceae		AJ580566	AJ406363/ AJ406335	X77885
Gentianella quinquefolia (L.) Small	Gentianaceae		EU812469	AJ406341/ AJ406369	EU834123
Gentianella saxosa (G.Forst.) Holub	Gentianaceae		AY136499	AJ406343/ AJ406371	AB453104
Gentianopsis barbata (Froel.) Ma	Gentianaceae		AF346007	KC861288	GQ245006
Gentianopsis ciliata (L.) Ma	Gentianaceae		AJ580551	AJ388234/ AJ388164	AJ408008

Species	Family	Voucher (only applies to new sequences)	ITS	*matK*	*trnL*
Halenia elliptica D.Don	Gentianaceae		AF346012	KC861243	KJ947663
Lisianthius jefensis A. Robyns & T.S. Elias	Gentianaceae		EU709782	AJ011451/ AJ010522	AF102448
Lomatogonium macranthum (Diels & Gilg) Fernald	Gentianaceae		AF346011	KC861247	AJ315228
Lomatogonium rotatum (L.) Fr. ex Fernald	Gentianaceae		AF346010	KC935910	GQ245087
Luculia pinceana Hook.	Rubiaceae		KC535861	JF954409	AM117371
Macrocarpaea domingensis Urb. & Ekman	Gentianaceae		EU709799	AJ011452/ AJ010523	AF102454
Macrocarpaea rubra Malme	Gentianaceae		EU528139	AJ388245/ AJ388175	AF102457
Megacodon stylophorus (C.B. Clarke) Harry Sm.	Gentianaceae		AY858679	KC861245	AF102458
Metagentiana rhodantha (Franch.) T.N.Ho & S.W.Liu	Gentianaceae		AY562174	JN162102	GQ864096
Microrphium pubescens C.B.Clarke	Gentianaceae		AJ489916	AJ388248/ AJ388178	AJ490241
Ornichia madagascariensis (Baker) Klack.	Gentianaceae		AJ489917	AJ388182	AJ490242
Orphium frutescens (L.) E.Mey.	Gentianaceae		FJ666017	AJ011454/ AJ010525	FJ014163
Posoqueria latifolia (Rudge) Schult.	Rubiaceae		KC535862	JQ626556	AF152680
Potalia amara Aubl.	Gentianaceae		DQ449919	AJ388253/ AJ388183	AF102470
Potalia resinifera Mart.	Gentianaceae		DQ449923	AJ388254/ AJ388184	AF102471
Pycnosphaera buchananii (Baker) N.E.Br.	Gentianaceae		KC535863	AJ388255/ AJ388185	AF102473
Saccifolium bandeirae Maguire & Pires	Gentianaceae		AJ242612/ AJ242615	AJ388257/ AJ388187	AJ242608
Schinziella tetragona (Schinz) Gilg	Gentianaceae		KC535864	AJ011456/ AJ010527	AF102479
Sebaea exacoides (L.) Schinz	Gentianaceae		FJ666000	AJ388259/ AJ388189	FJ014170
Strychnos sp.	Loganiaceae		JF938049	JF270955	KC479277
Swertia bimaculata (Siebold & Zucc.) Hook. f. & Thomson ex C.B. Clarke	Gentianaceae		JF978820	KC861264	AJ408013
Swertia decora Franch.	Gentianaceae		JF978824	JF956567	AJ315212
Swertia erythrosticta Maxim.	Gentianaceae		AF251122	KC861267	KF564020
Swertia punicea Hemsl.	Gentianaceae		JF978830	KC861257	AJ408019
Swertia tetraptera Maxim.	Gentianaceae		JF978834	KC861270	AJ315229
Swertia yunnanensis Burkill	Gentianaceae		JF978836	JF956585	AJ315224
Symbolanthus frigidus (Sw.) Struwe & K.R. Gould	Gentianaceae		EU709802	AJ388268/ AJ388198	AF102498
Tachiadenus carinatus (Desr.) Griseb.	Gentianaceae		AJ489923	AJ011460/ AJ011434	FJ014193
Urogentias ulugurensis Gilg & Gilg-Ben.	Gentianaceae		FJ232583	AJ388265/ AJ388195	AF102495

Species	Family	Voucher (only applies to new sequences)	ITS	*matK*	*trnL*
Veratrilla baillonii Franch.	Gentianaceae		AF251123	KC861249	AF102497
Voyria aphylla (Jacq.) Pers.	Gentianaceae		KC535866	—	—
Voyria aurantiaca Splitg.	Gentianaceae		KC535867	—	—
Voyria caerulea Aubl.	Gentianaceae		KC535868	—	—
Voyria clavata Splitg.	Gentianaceae		KC535869	—	—
Voyria corymbosa Splitg.	Gentianaceae		KC535870	—	—
Voyria flavescens Griseb.	Gentianaceae	Maas 10469 (L)	na	—	—
Voyria obconica Progel	Gentianaceae		KC535871	—	—
Voyria parasitica (Schltdl. & Cham.) Ruyters & Maas	Gentianaceae		KC535873	—	—
Voyria primuloides Baker	Gentianaceae		KC535874	—	—
Voyria rosea Aubl.	Gentianaceae		KC535875	—	—
Voyria tenella Guiling ex Hook.	Gentianaceae		KC535876	—	—
Voyria tenuiflora Griseb.	Gentianaceae		KC535878	—	—
Voyriella parviflora Miq.	Gentianaceae		KC535879	AJ388267/ AJ388197	AJ242607

All names (except noted^) verified with The Plant List, 21 April 2015

Appendix A.2. Protein-coding genes retained in plastomes of *Arachnitis uniflora* and *Corsia* cf. *boridiensis* (Ψ, interrupted reading frame, probable pseudogene) (Chapter 3).

	Arachnitis uniflora	*Corsia* cf. *boridiensis*
ATP synthase	atpI (Ψ)	
Photosystem II		psbC (Ψ)
Photosystem I		psaB (Ψ)
Ribosomal proteins (small)	rps2, rps3, rps4, rps7, rps8, rps11, rps12, rps14, rps18, rps19	rps2, rps3, rps4, rps7, rps8, rps11, rps12, rps14, rps15, rps18, rps19
Ribosomal proteins (large)	rpl2, rpl14, rpl16, rpl20	rpl2, rpl14, rpl16, rpl20, rpl22, rpl32, rpl33, rpl36 (Ψ)
Ribosomal RNAs	4.5S, 5S, 16S, 23S	4.5S, 5S, 16S, 23S
Serine protease	clpP	clpP
Fatty acid synthesis	accD	accD
Group II intron maturase		matK
Misc.		ycf1, ycf2, ccsA (Ψ)

Appendix A.3. Voucher information of Arbuscular Mycorrhizal Fungi obtained from plant taxa. For each fungal sequence, the host plant taxon, OTU assignment and collection number are given. Furthermore, sequences obtained from cloning and GenBank numbers are indicated (Chapter 4).

Taxon	OTU	Collection number (new sequences only)	Cloning? (new sequences only)	18s rDNA
Epirixanthes elongata symbiont 1	3	CM032_4494-8G	Yes	KR002150
Epirixanthes elongata symbiont 2	3	CM030_4584-AM58	No	KR002146
Epirixanthes elongata symbiont 3	3	CM032_4494-8F	Yes	KR002149
Epirixanthes elongata symbiont 4	3	CM030_4583-AM57	No	KR002147
Epirixanthes elongata symbiont 5	3	CM032_4494-AM17	No	KR002148
Epirixanthes elongata symbiont 6	7	CM032_4585-4E	Yes	KR002153
Epirixanthes elongata symbiont 7	7	CM032_4585-4C	Yes	KR002152
Epirixanthes elongata symbiont 8	8	CM032_4585-4A	Yes	KR002151
Epirixanthes elongata symbiont 9	9	CM032_4585-AM59/84	No	KR002145
Epirixanthes kinabaluensis symbiont 1	1	CM013_4582-3D	Yes	KR002154
Epirixanthes kinabaluensis symbiont 2	14	CM013_4582-AM56/83	No	KR002144
Epirixanthes pallida symbiont 1	2	CM001_4560-1C	Yes	KR002156
Epirixanthes pallida symbiont 10	10	CM001_4560-AM39/81	No	KR002142
Epirixanthes pallida symbiont 11	10	CM001_4560-1F	Yes	KR002157
Epirixanthes pallida symbiont 12	10	CM001_4560-1H	Yes	KR002158
Epirixanthes pallida symbiont 13	11	CM001_4578-AM52	No	KR002137
Epirixanthes pallida symbiont 14	12	CM004_4569-AM48	No	KR002140
Epirixanthes pallida symbiont 15	13	CM004_4592-AM69/78	No	KR002134
Epirixanthes pallida symbiont 2	5	CM009_4593-AM79	No	KR002133
Epirixanthes pallida symbiont 3	5	CM004_4580-AM54	No	KR002135
Epirixanthes pallida symbiont 4	5	CM004_4497-AM33	No	KR002143
Epirixanthes pallida symbiont 5	5	CM001_4562-AM41	No	KR002141
Epirixanthes pallida symbiont 6	5	CM001_4577-AM51	No	KR002138
Epirixanthes pallida symbiont 7	5	CM001_4576-AM50	No	KR002139
Epirixanthes pallida symbiont 8	7	CM002_4579-AM53/82	No	KR002136
Epirixanthes pallida symbiont 9	10	CM001_4560-1A	Yes	KR002155

Epirixanthes papuana symbiont 1	4	CM011_4581-AM55/85	No	KR002131
Epirixanthes papuana symbiont 2	4	CM011_4491-AM14	No	KR002132
Epirixanthes papuana symbiont 3	5	CM011_4581-2E	Yes	KR002161
Epirixanthes papuana symbiont 4	6	CM011_4581-2A	Yes	KR002159
Epirixanthes papuana symbiont 5	6	CM011_4581-2G	Yes	KR002162
Epirixanthes papuana symbiont 6	6	CM011_4581-2H	Yes	KR002163
Epirixanthes papuana symbiont 7	6	CM011_4581-2C	Yes	KR002160
Polygala alpestris symbiont 1	15			HE615151
Polygala amara ssp. *brachyptera* symbiont 1	2			HE615152
Polygala amara ssp. *brachyptera* symbiont 2	2			HE614286
Polygala amara ssp. *brachyptera* symbiont 3	16			HE615140
Polygala amara ssp. *brachyptera* symbiont 4	C 2			HE614290
Polygala amarella symbiont 1	16			HE615143
Polygala amarella symbiont 2	16			HE615153
Polygala calcarea symbiont 1	2			HE615141
Polygala calcarea symbiont 2	2			HE615142
Polygala calcarea symbiont 3	13			HE614283
Polygala comosa symbiont 1	13			HE614289
Polygala myrtifolia symbiont 1	2			HE615149
Polygala myrtifolia symbiont 2	16			HE614284
Polygala myrtifolia symbiont 3	18			HE615150
Polygala rupestris symbiont 1	17			HE615147
Polygala serpyllifolia symbiont 1	15			HE614287
Polygala serpyllifolia symbiont 2	C 1			HE615144
Polygala vulgaris ssp. *collina* symbiont 1	13			HE614288
Polygala vulgaris ssp. *vulgaris* symbiont 1	17			HE614285
Polygala vulgaris ssp. *vulgaris* symbiont 2	17			HE615146
Polygala vulgaris ssp. *vulgaris* symbiont 3	17			HE615148
Salomonia cantoniensis symbiont 1	7	MR321/MR369-i2	Yes	LN713534
Salomonia cantoniensis symbiont 2	7	MR372/MR373-i2	Yes	LN713532
Salomonia cantoniensis symbiont 3	19	MR315-i1	No	LN713535
Salomonia cantoniensis symbiont 4	21	MR322-i2	Yes	LN713530
Salomonia longiciliata symbiont 1	20	MR324/MR390-i1	Yes	LN713539
Salomonia longiciliata symbiont 2	20	MR323-i1	Yes	LN713537
Salomonia longiciliata symbiont 3	20	MR388/MR389-i1	Yes	LN713540
Salomonia longiciliata symbiont 4	20	MR325-i2	Yes	LN713529
Salomonia longiciliata symbiont 5	20	MR375-i1	Yes	LN713536
Salomonia longiciliata symbiont 6	22	MR320-i2	No	LN713528

Appendix A.4. OTU assignments Chapter 4.

OTU	Taxon	Sequence length	Percentage similarity to target sequence	Target sequence
1	*Epirixanthes kinabaluensis* symbiont 1	505	100.0	*Epirixanthes kinabaluensis* symbiont 1
2	*Epirixanthes pallida* symbiont 1	502	100.0	*Epirixanthes pallida* symbiont 1
2	*Polygala amara* spp. *brachyptera* symbiont 1	496	97.4	*Epirixanthes pallida* symbiont 1
2	*Polygala myrtifolia* symbiont 1	496	97.8	*Epirixanthes pallida* symbiont 1
2	*Polygala calcarea* symbiont 2	495	97.4	*Epirixanthes pallida* symbiont 1
2	*Polygala amara* spp. *brachyptera* symbiont 2	495	97.2	*Epirixanthes pallida* symbiont 1
2	*Polygala calcarea* symbiont 1	495	98.0	*Epirixanthes pallida* symbiont 1
3	*Epirixanthes elongata* symbiont 5	504	100.0	*Epirixanthes elongata* symbiont 5
3	*Epirixanthes elongata* symbiont 3	504	99.2	*Epirixanthes elongata* symbiont 5
3	*Epirixanthes elongata* symbiont 2	468	99.8	*Epirixanthes elongata* symbiont 5
3	*Epirixanthes elongata* symbiont 1	504	99.0	*Epirixanthes elongata* symbiont 5
3	*Epirixanthes elongata* symbiont 4	504	99.8	*Epirixanthes elongata* symbiont 5
4	*Epirixanthes papuana* symbiont 2	460	98.9	*Epirixanthes papuana* symbiont 1
4	*Epirixanthes papuana* symbiont 1	477	100.0	*Epirixanthes papuana* symbiont 1
5	*Epirixanthes pallida* symbiont 6	442	100.0	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes pallida* symbiont 5	463	99.5	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes pallida* symbiont 4	450	98.0	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes pallida* symbiont 7	496	98.2	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes papuana* symbiont 3	505	98.2	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes pallida* symbiont 2	496	98.4	*Epirixanthes pallida* symbiont 6
5	*Epirixanthes pallida* symbiont 3	467	98.4	*Epirixanthes pallida* symbiont 6
6	*Epirixanthes papuana* symbiont 6	506	100.0	*Epirixanthes papuana* symbiont 6
6	*Epirixanthes papuana* symbiont 5	505	98.2	*Epirixanthes papuana* symbiont 6
6	*Epirixanthes papuana* symbiont 4	505	98.2	*Epirixanthes papuana* symbiont 6
6	*Epirixanthes papuana* symbiont 7	506	98.4	*Epirixanthes papuana* symbiont 6
7	*Salomonia cantoniensis* symbiont 2	435	98.2	*Epirixanthes pallida* symbiont 8
7	*Epirixanthes pallida* symbiont 8	502	100.0	*Epirixanthes pallida* symbiont 8
7	*Epirixanthes elongata* symbiont 6	503	97.4	*Epirixanthes pallida* symbiont 8
7	*Epirixanthes elongata* symbiont 7	504	97.2	*Epirixanthes pallida* symbiont 8
7	*Salomonia cantoniensis* symbiont 1	435	98.6	*Epirixanthes pallida* symbiont 8
8	*Epirixanthes elongata* symbiont 8	504	100.0	*Epirixanthes elongata* symbiont 8
9	*Epirixanthes elongata* symbiont 9	494	100.0	*Epirixanthes elongata* symbiont 9
10	*Epirixanthes pallida* symbiont 11	504	97.2	*Epirixanthes pallida* symbiont 12
10	*Epirixanthes pallida* symbiont 12	506	100.0	*Epirixanthes pallida* symbiont 12
10	*Epirixanthes pallida* symbiont 9	504	97.6	*Epirixanthes pallida* symbiont 12

10	*Epirixanthes pallida* symbiont 10	504	97.2	*Epirixanthes pallida* symbiont 12
11	*Epirixanthes pallida* symbiont 13	428	100.0	*Epirixanthes pallida* symbiont 13
12	*Epirixanthes pallida* symbiont 14	463	100.0	*Epirixanthes pallida* symbiont 14
13	*Epirixanthes pallida* symbiont 15	250	99.2	*Polygala comosa* symbiont 1
13	*Polygala comosa* symbiont 1	495	100.0	*Polygala comosa* symbiont 1
13	*Polygala vulgaris* ssp. *collina* symbiont 1	496	97.6	*Polygala comosa* symbiont 1
13	*Polygala calcarea* symbiont 3	495	99.8	*Polygala comosa* symbiont 1
14	*Epirixanthes kinabaluensis* symbiont 2	372	100.0	*Epirixanthes kinabaluensis* symbiont 2
15	*Polygala alpestris* symbiont 1	497	100.0	*Polygala alpestris* symbiont 1
15	*Polygala serpyllifolia* symbiont 1	497	98.2	*Polygala alpestris* symbiont 1
16	*Polygala amarella* symbiont 1	496	100.0	*Polygala amarella* symbiont 1
16	*Polygala amara* ssp. *brachyptera* symbiont 3	496	98.8	*Polygala amarella* symbiont 1
16	*Polygala myrtifolia* symbiont 2	496	99.0	*Polygala amarella* symbiont 1
16	*Polygala amarella* symbiont 2	497	99.0	*Polygala amarella* symbiont 1
17	*Polygala rupestris* symbiont 1	495	100.0	*Polygala rupestris* symbiont 1
17	*Polygala vulgaris* ssp. *vulgaris* symbiont 2	494	98.2	*Polygala rupestris* symbiont 1
17	*Polygala vulgaris* ssp. *vulgaris* symbiont 3	494	98.2	*Polygala rupestris* symbiont 1
17	*Polygala vulgaris* ssp. *vulgaris* symbiont 1	495	98.4	*Polygala rupestris* symbiont 1
18	*Polygala myrtifolia* symbiont 3	498	100.0	*Polygala myrtifolia* symbiont 3
19	*Salomonia cantoniensis* symbiont 3	437	100.0	*Salomonia cantoniensis* symbiont 3
20	*Salomonia longiciliata* symbiont 3	436	100.0	*Salomonia longiciliata* symbiont 3
20	*Salomonia longiciliata* symbiont 2	436	99.8	*Salomonia longiciliata* symbiont 3
20	*Salomonia longiciliata* symbiont 4	436	99.8	*Salomonia longiciliata* symbiont 3
20	*Salomonia longiciliata* symbiont 5	436	97.5	*Salomonia longiciliata* symbiont 3
20	*Salomonia longiciliata* symbiont 1	436	99.8	*Salomonia longiciliata* symbiont 3
21	*Salomonia cantoniensis* symbiont 4	435	100.0	*Salomonia cantoniensis* symbiont 4
22	*Salomonia longiciliata* symbiont 6	417	100.0	*Salomonia longiciliata* symbiont 6
C 1	*Polygala serpyllifolia* symbiont 2	*	*	*
C 2	*Polygala amara* ssp. *brachyptera* symbiont 4	*	*	*
* For these chimeric sequences no measurements were carried out.				