

KHIDIR W. HILU, THOMAS BORSCH, KAI MÜLLER, DOUGLAS E. SOLTIS, PAMELA S. SOLTIS, VINCENT SAVOLAINEN, MARK W. CHASE, MARTYN P. POWELL, LAWRENCE A. ALICE, RODGER EVANS, HERVÉ SAUQUET, CHRISTOPH NEINHUIS, TRACEY A. B. SLOTTA, JENS G. ROHWER, CHRISTOPHER S. CAMPBELL, AND LARS W. CHATROU. 2003. Angiosperm phylogeny based on *matK* sequence information. *American Journal of Botany* 90(12): 1758-1776.

Appendix 1. Taxa used in the study and information on sequences

Family	Genus and species	GenBankNo.	Voucher/ Herbarium	Reference
OUTGROUP TAXA				
Araucariaceae	<i>Araucaria araucana</i> (Molina) C. Koch	AF543723	Borsch 3426 (BONN)	Hilu et al (submitted)
Araucariaceae	<i>Agathis borneensis</i> Warb.	AB023975		Cheng et al (2000)
Cupressaceae	<i>Cupressus sempervirens</i> L.	AF152187		Tsudzuki et al (1992)
Cupressaceae	<i>Thuja occidentalis</i> L.	AF152214		Tsudzuki et al (1992)
Cycadaceae	<i>Zamia furfuracea</i> Ait.	AF542563	Horich s.n. (BONN)	this study
Ginkgoaceae	<i>Ginkgo biloba</i> L.	AF543736	Borsch 3469 (VPI)	Hilu et al. (submitted)
Gnetaceae	<i>Gnetum gnemon</i> L.	AF542561	Borsch 3470 (BONN)	this study
Pinaceae	<i>Pinus thunbergii</i> Parl.	D17510		Tsudzuki et al. (1992)
Pinaceae	<i>Picea mariana</i> (Mill.) Britt, Sterns & Poggenb.	AF059343		Tsudzuki et al. (1992)
Taxaceae	<i>Amentotaxus argotaenia</i> (Hance) Pilg.	AF152219		Tsudzuki et al. (1992)
Taxaceae	<i>Sequoia sempervirens</i> (D. Don) Endl.	AF152209		Tsudzuki et al. (1992)
Taxodiaceae	<i>Taxodium distichum</i> (L.) Rich.	AF152212		Tsudzuki et al. (1992)
Welwitschiaceae	<i>Welwitschia mirabilis</i> Hook.	AF542562	Borsch 3410 (BONN)	this study
INGROUP TAXA				
Acanthaceae	<i>Dipteracanthus portellae</i> (Hook.f.) Boom	AF531773		Müller et al. (in press)
Achatocarpaceae	<i>Achatocarpus nigricans</i> Triana	AY491643	Devia 203 (K)	Cuenoud et al. 2002
Achatocarpaceae	<i>Phaulothamnus spinescens</i> A. Gray	AF542594	Borsch, Pratt, Müller 3446 (BONN, ISC)	this study
Acoraceae	<i>Acorus gramineus</i> Soland.	AF543719	Borsch 3458 (BONN)	Hilu et al. (submitted)
Actinidiaceae	<i>Actinidia chinensis</i> Planch.	AY491644	Chase 235 (NCU)	this study
Adoxaceae	<i>Sambucus racemosa</i> L.	AF446898		Bell et al. (2202)
Aextoxicaceae	<i>Aextoxicon punctatum</i> Ruiz & Pav.	AF543720	Borsch 3459 (BONN)	Hilu et al. (submitted)
Agavaceae	<i>Hosta sieboldii</i> (Paxton) J.Ingram	AB017317		Ito et al., 1999
Agavaceae	<i>Polianthes tuberosa</i> L.	AB017305		Ito et al., 1999
Agdestidaceae	<i>Agdestis clematidea</i> DC.	AY042538		Cuénoud et al. (2002)
Aizoaceae	<i>Delosperma echinatum</i> (Lam.) Schwantes	AY042575		Cuénoud et al. (2002)
Alismataceae	<i>Sagittaria latifolia</i> Willd.	AF542573	Borsch & Summers 3222 (VPI, FR)	this study
Alismataceae	<i>Alisma canaliculatum</i> A. Braun & Bouché	AB040179		Fuse and Tamura (2000)
Alliaceae	<i>Allium altaicum</i> Pall.	AJ581386	Chase 834 (K)	this study
Alstroemeriaceae	<i>Alstroemeria</i> sp.	AJ581387	Anderson 13653 (MICH)	this study
Altingiaceae	<i>Liquidambar styraciflua</i> L.	AF015652		Li et al. (1997)
Amaranthaceae	<i>Alternanthera caracasana</i> Kunth	AF542595	Borsch, Pratt, Müller 3433 (BONN, ISC)	this study
Amaranthaceae	<i>Pleuropetalum sprucei</i> (Hook. f.) Standl.	AF542596		Cuenoud et al. 2002
Amaryllidaceae	<i>Amaryllis belladonna</i> L.	AJ581388	Chase 612 (K)	this study
Amaryllidaceae	<i>Narcissus elegans</i> Spach.	AJ581389	Chase 617 (K)	this study
Amborellaceae	<i>Amborella trichopoda</i> Baill.	AF543721		Hilu et al. (submitted)
Anacardiaceae	<i>Schinus</i> sp.	AY491645	Chase 171 (K)	this study
Ancistrocladaceae	<i>Ancistrocladus korupensis</i> D.W. Thomas & Gereau	AF204839		Meimberg et al. (2000)
Ancistrocladaceae	<i>Triphyophyllum peltatum</i> (Hutch. & Dalziel) A. Shaw	AF204843		Meimberg et al. (2000)
Annonaceae	<i>Anaxagorea acuminata</i> (Dunal) A. DC.	AY220436		Sauquet et al. (in press)
Annonaceae	<i>Cananga odorata</i> (Lam.) Hook. f. & Thomson	AY220438	M.W. Chase 219 (NCU)	Sauquet et al. (in press)

Annonaceae	<i>Annona muricata</i> L.	AF543722	Borsch 3460 (BONN)	Hilu et al. (submitted)
Annonaceae	<i>Polyalthia suberosa</i> (Roxb.) Thwaites	AY220439	Y.-L. Qiu 94008 (IND)	Sauquet et al. (in press)
Anthericaceae	<i>Chlorophytum comosum</i> (Thunb.) Jacques	AB029806		Fuse and Tamura (2000)
Antirrhinaceae	<i>Antirrhinum majus</i> L.	AF051978		Young et al. (1999)
Apiaceae	<i>Apium graveolens</i> L.	U58548		Plunkett et al. (1996)
Apiaceae	<i>Hydrocotyle bowlesioides</i> Mathias & Constance	U58600		Plunkett et al. (1997)
Apiaceae	<i>Sanicula gregari</i> Bickn.	U58589		Plunkett et al. (1996)
Apocynaceae	<i>Apocynum</i> sp. L.	AJ581390	Chase, Fay, Richardson 32 (K)	this study
Apocynaceae	<i>Chilocarpus suaveolens</i> Blume	Z70184		Endress et al. (1996)
Aquifoliaceae	<i>Ilex aquifolium</i> L.	AF542607	Borsch 3419 (BONN)	this study
Araceae	<i>Amorphophallus titanum</i> Becc.	AJ581391	Chase 2968 (K)	this study
Araceae	<i>Orontium aquaticum</i> L.	AF543744	Borsch 3457 (BONN)	Hilu et al. (submitted)
Araceae	<i>Spathiphyllum floribundum</i> (Lind. & Andre) N.E. Br.	AF542575	Borsch 3408 (BONN)	this study
Araliaceae	<i>Aralia spinosa</i> L.	U58604		Plunkett et al. (1997)
Araliaceae	<i>Fatsia japonica</i> Decne. & Planché	U58610		Plunkett et al. (1997)
Arecaceae	<i>Phoenix canariensis</i> Hort.ex Chabaud	AJ581392	Chase 1396 (K)	this study
Arecaceae	<i>Nypa fruticans</i> Wurm	AF543743	Borsch 3463 (BONN)	Hilu et al. (submitted)
Argophyllaceae	<i>Corokia cotoneaster</i> Raoul	AY491646	Chase 2752 (K)	this study
Aristolochiaceae	<i>Aristolochia pistolochia</i> L.	AF543724	Borsch 3257 (FR)	Hilu et al. (submitted)
Aristolochiaceae	<i>Asarum yakushimense</i>	AF542571	H. Huber s.n. (BONN)	this study
Aristolochiaceae	<i>Thottea siliquosa</i> (Lam.) Ding Hou	AF542570	J. Bogner 86/3421 (BONN)	this study
Asclepiadaceae	<i>Fockea capensis</i> Endl.	Z98187		Civeyrel et al. (1998)
Asclepiadaceae	<i>Vincetoxicum nigrum</i> (L.) Moench	Z98192		Civeyrel et al. (1998)
Asparagaceae	<i>Asparagus cochinchinensis</i> (Lour.) Merr.	AB029804		Fuse and Tamura (2000)
Asteliaceae	<i>Astelia nervosa</i> Banks & Soland.ex Hook.f.	AJ581393	Chase 189 NCU)	this study
Asteraceae	<i>Jurinea cyanoides</i> (L.) Rchb.	JCY307041		Peterson and Peterson (unpublished)
Asteraceae	<i>Atractylodes lancea</i> (Thunb.) DC.	AB008761		Mizukami et al. (1989)
Asteropeiaceae	<i>Asteropeia microster</i> H. Hallier	AY042549		Cuénoud et al. (2002)
Atherospermataceae	<i>Doryphora sassafras</i> Endl.	AF542568	Borsch 3409 (BONN)	this study
Atherospermataceae	<i>Laurelia sempervirens</i> (Ruiz & Pav.) Tul.	AJ581394	Greissl 643-99 (MJG)	this study
Aucubaceae	<i>Aucuba japonica</i> Thunb.	AJ581395	Chase 1095 (K)	this study
Austrobaileyaaceae	<i>Austrobaileya scandens</i> C. White	AF543726	Borsch 3464 (BONN)	Hilu et al. (submitted)
Avicenniaceae	<i>Avicennia germinans</i> (L.) L.	AF531771		Müller et al. (in press)
Balanopaceae	<i>Balanops viellardii</i> Baill.	AY491647	Chase 1816 (K)	this study
Balsaminaceae	<i>Impatiens noli-tangere</i> L.	AF542608	Borsch 3485 (BONN)	this study
Barbeuaceae	<i>Barbeuia madagascariensis</i> Steud.	AY042552		Cuénoud et al. (2002)
Basellaceae	<i>Anredera cordifolia</i> (Ten.) van Steenis	AY042547		Cuénoud et al. (2002)
Basellaceae	<i>Basella alba</i> L.	AY042553		Cuénoud et al. (2002)
Begoniaceae	<i>Begonia grandis</i> Otto ex A.DC.	AB016466		Yokoyama et al. (2000)
Berberidaceae	<i>Caulophyllum thalictroides</i> (L.) Michx.	AF542584	Slotta-2003-1(VPI)	this study
Berberidaceae	<i>Mahonia japonica</i> (Thunb. Ex Murr.) DC.	AF542585	Borsch 3405 (BONN)	this study
Berberidaceae	<i>Podophyllum peltatum</i> L.	AF542586	Borsch 3393 (BONN)	this study
Berberidopsid.	<i>Berberidopsis corallina</i> Hook.	AY042554		Cuénoud et al. (2002)
Betulaceae	<i>Betula papyrifera</i> Marsh.	U92853		Manos and Steele (1997)
Balsaminaceae	<i>Impatiens noli-tangere</i> L.	AF542608	Borsch 3485 (BONN)	this study
Barbeuaceae	<i>Barbeuia madagascariensis</i> Steud.	AY042552		Cuénoud et al. (2002)
Bignoniaceae	<i>Campsis radicans</i> Seem.	AF531775		Müller et al. (in press)
Bignoniaceae	<i>Kigelia africana</i> Benth.	AF051988		Young et al. (1999)
Blandfordiaceae	<i>Blandfordia punicea</i> Sweet	AJ581396	Chase 519 (K)	this study
Boraginaceae	<i>Borago officinalis</i> L.	AY491648	Chase 2746	this study
Boraginaceae	<i>Echium candicans</i> L.f.	AF542610	Borsch 3487 (BONN)	this study
Boryaceae	<i>Borya sphaerocephala</i> R.Br.	AF542577	Borsch 3416 (BONN)	this study
Brassicaceae	<i>Arabidopsis thaliana</i> L.	AP000423		Sato et al. (1999)
Bromeliaceae	<i>Pitcairnia xanthocalyx</i> Mart.	AF542580	Borsch 3488 (BONN)	this study
Buddlejaceae	<i>Buddleja alternifolia</i> Maxim.	AF531772		Müller et al. (in press)
Burmanniaceae	<i>Burmannia biflora</i> L.	AJ581397	Chase 157 (NCU)	this study

Buxaceae	<i>Pachysandra terminalis</i> Sieb. & Zucc.	AF542581	Borsch 3407 (BONN)	this study
Buxaceae	<i>Buxus sempervirens</i> L.	AF543728	Borsch 3465 (BONN)	Hilu et al. (submitted)
Byblidaceae	<i>Byblis gigantea</i> Lindl.	AF531774		Müller et al. (in press)
Cabombaceae	<i>Brasenia schreberi</i> J.F. Gmelin	AF543727	Borsch and Wieboldt 3298 (FR, VPI)	Hilu et al. (submitted)
Cabombaceae	<i>Cabomba caroliniana</i> A. Gray	AF534729	Ludwig s.n. (VPI)	Hilu et al. (submitted)
Cactaceae	<i>Rhipsalis floccosa</i> Salm-Dyck ex Pfeiff.	GB_AY01534		Nyffeler (2002)
Cactaceae	<i>Pereskia ziniiflora</i> DC.	AY015277		Nyffeler (2002)
Calycanthaceae	<i>Calycanthus floridus</i> L.	AF543730	Borsch 3455 (BONN)	Hilu et al. (submitted)
Calycanthaceae	<i>Chimonanthus praecox</i> (L.) Link	AF542569	Borsch 3396 (BONN)	this study
Canellaceae	<i>Canella winterana</i> (L.) Gaertn.	AF543731	Borsch 3466 (BONN)	Hilu et al. (submitted)
Canellaceae	<i>Belliolum panafloa</i>	AJ581398	Qiu 90025 (NCU)	this study
Cannabaceae	<i>Humulus lupulus</i> L.	AY257528	Campbell 99-108 (MAINE)	this study
Capparidaceae	<i>Cleome hassleriana</i> Chodat	AY491649	Chase 3015 (K)	this study
Capparidaceae	<i>Capparis spinosa</i> L.	AY491650	Chase 2751 (K)	this study
Caprifoliaceae	<i>Lonicera periclymenum</i> L.	AF542609	Borsch 3489 (BONN)	this study
Caricaceae	<i>Carica papaya</i> L.	AY042564	Chase 2508 (K)	this study
Caryophyllaceae	<i>Silene nutans</i> L.	AF542598	Borsch and Hilu 3345 (BONN)	this study
Casuarinaceae	<i>Casuarina stricta</i> Miq. ex Aiton	U92858		this study
Celastraceae	<i>Hippocratea barbata</i> Muell.	AJ581399		Meimberg et al. (2000)
Celastraceae	<i>Salacia lehmbachii</i> Loes.	AF542599	Borsch 3549 (BONN)	this study
Ceratophyllaceae	<i>Ceratophyllum submersum</i> L.	AJ581400	Qiu 98088 (NCU)	this study
Ceratophyllaceae	<i>Ceratophyllum demersum</i> L.	AF543732	Wieboldt 16073 (VPI)	Hilu et al. (submitted)
Cercidiphyllaceae	<i>Cercidiphyllum japonicum</i> Siebold & Zucc.	AF274608		Fishbein et al. (2001)
Chenopodiaceae	<i>Spinacia oleracea</i> L.	NC002202		Schmitz-Linneweber et al. (2001)
Chenopodiaceae	<i>Beta trigyna</i> Waldst. & Kit.	AY042555		Cuénoud et al. (2002)
Chloranthaceae	<i>Ascarina</i> sp.	AJ581401	Thien 500 (NCU)	this study
Chloranthaceae	<i>Chloranthus brachystachys</i> Bl.	AF543733	Borsch 3467 (BONN)	Hilu et al. (submitted)
Chloranthaceae	<i>Hedyosmum arborescens</i> Sw.	AJ581402	Chase 338 (NCU)	this study
Chloranthaceae	<i>Sarcandra grandiflora</i> Subr. & Henry	AJ581403	Qiu 92002 (ncu)	this study
Coccolobaceae	<i>Coccoloba peltata</i> Schott	AY042570	Chase 348 (NCU)	Cuenoud et al. (2002)
Convallariaceae	<i>Dracaena draco</i> (L.) L.	AB029803		Yamashita, J. and Tamura, M. N. (unpublished)
Convallariaceae	<i>Maianthemum dilatatum</i> (A. Wood) A. Nelson and J.F. Macbr.	AB029770		Fuse and Tamura (2000)
Convallariaceae	<i>Ophiopogon brevipes</i> Craib.	AB029786		Fuse and Tamura (2000)
Convallariaceae	<i>Polygonatum hookeri</i> Baker	AJ581404	Chase 492 (K)	this study
Convallariaceae	<i>Ruscus aculeatus</i> L.	AB029801		Fuse and Tamura (2000)
Convallariaceae	<i>Smilacina robusta</i> Makino & Honda	AB029769		Yamashita, J. and Tamura, M.N.
Convallariaceae	<i>Nolina recurvata</i> (Lem.) Hemsl.	AB029799		Fuse and Tamura (2000)
Convolvulaceae	<i>Ipomoea mouritiana</i>	AY491651	Chase 2525 (K)	this study
Coriariaceae	<i>Coriaria myrtifolia</i> L.	AF542600	Borsch 3415 (BONN)	this study
Cornaceae	<i>Cornus florida</i> L.	U96894		Xiang et al. (1998)
Corynocarpaceae	<i>Corynocarpus laevigatus</i> J.R. Forst. & G. Forst.	AY491652	Chase 236 (NCU)	this study
Crassulaceae	<i>Sedum rubrotinctum</i> R.T. Clausen	AF274632		Fishbein et al. (2001)
Crassulaceae	<i>Crassula</i> aff. <i>Perforata</i> Thunb.	AF274611		Fishbein et al. (2001)
Cucurbitaceae	<i>Bryonia alba</i> L.	AJ581405	Chase 921 (K)	this study
Cucurbitaceae	<i>Echinocystis lobata</i> (Michx.) Torr. & A. Gray	AY491653	Campbell 00-15 (MAINE)	this study
Cunoniaceae	<i>Aphanopetalum resinatum</i> Endl.	AF274607		Fishbein et al. (2001)
Cyclanthaceae	<i>Carludovica palmata</i> Ruiz. & Pav.	AF542578	Roth s.n. (BONN)	this study
Daphniphyllaceae	<i>Daphniphyllum</i> sp.	AF274612		Fishbein et al. (2001)
Datisceae	<i>Datisca cannabina</i> L.	AY491654		this study
Degeneriaceae	<i>Degeneria vitiensis</i> I.W. Bailey & A.C. Smith	AB055549		Azuma et al. (1999)
Diapensiaceae	<i>Diapensia lapponica</i> L.	L48574		Johnson et al. (1996)
Diapensiaceae	<i>Shortia</i> sp. Torr. & A. Gray	unpublished	Leigh Johnson s.n.	L. Johnson (unpublished)

Didieriaceae	<i>Decarya madagascariensis</i> Choux	AY042574		Cuénoud et al. (2002)
Didieriaceae	<i>Alluaudia ascendens</i> Drake	AY042541		Cuénoud et al. (2002)
Didymeleaceae	<i>Didymeles perrieri</i> Leandri	AJ581406	O. Andrianantoanina 387 (MO, TAN)	this study
Dilleniaceae	<i>Schumacheria</i> Vahl sp.	AJ581407	Chase 308 (NCU)	this study
Dilleniaceae	<i>Tetracera asiatica</i> (Lour.) Hoogl.	AY042665	Chase 1238 (K)	this study
Dioscoreaceae	<i>Tamus communis</i> L.	AJ581408	Chase 537 (K)	this study
Dioscoreaceae	<i>Dioscorea alata</i> L.	AB040208		Fuse and Tamura (2000)
Dipsacaceae	<i>Dipsacus sativus</i> (L.) Honck.	DSA429393		Bremer et al. (2002)
Dipterocarpaceae	<i>Anisoptera marginata</i>	AJ581409	Chase 2486 (K)	this study
Dipterocarpaceae	<i>Dipterocarpus baudii</i> Korth.	AB006376		Kajita et al. (1998)
Dipterocarpaceae	<i>Shorea ovalis</i> Blume	AB006380		Kajita et al. (1998)
Droseraceae	<i>Drosera indica</i> L.	AF204848		Meimberg et al. (2000)
Drosophyllaceae	<i>Drosophyllum lusitanicum</i> (L.) Link	AF204846		Meimberg et al. (2000)
Ebenaceae	<i>Diospyros kaki</i> L. f.	AJ581410	Chase 920 (K)	this study
Elaeagnaceae	<i>Elaeagnus umbellata</i> Thunb.	AY257529	Campbell 99-106 (MAINE)	this study
Elaeocarpaceae	<i>Crinodendron hookerianum</i>	AY491655	Chase 909 (K)	this study
Ericaceae	<i>Erica tetralix</i> L.	U61340		Kron, K.A. (unpublished)
Ericaceae	<i>Rhododendron ovatum</i> (Lindl.) Planch. ex Maxim.	AB012729		Kurashige et al. (1998)
Eucommiaceae	<i>Eucommia ulmoides</i> Oliv.	AJ581411	Chase 2755 (K)	this study
Euphorbiaceae	<i>Euphorbia polycantha</i> Boiss.	AY491656	Chase 102 (NCU)	this study
Eupomatiaceae	<i>Eupomatia bennettii</i> Muell.	AJ581412	Endress 5197 (BONN)	Sauquet et al. (in press)
Eupteleaceae	<i>Euptelea polyandra</i> Siebold & Zucc.	AJ581413	Qiu 95098 (NCU)	this study
Fabaceae	<i>Melilotus alba</i> Desr.	AF142738		Hu et al. (2000)
Fabaceae	<i>Amherstia nobilis</i> Wall.	AF542601	Roth s.n. (BONN)	this study
Fabaceae	<i>Ormosia</i> sp. Jacks.	AJ581414	Chase 5515 (K)	this study
Fabaceae	<i>Swartzia simplex</i> (Sw.) Spreng.	AJ581415	Pennington 686 (K)	this study
Fagaceae	<i>Fagus grandifolia</i> Ehrh.	U92861		Manos and Steele (1997)
Fouquieriaceae	<i>Fouquieria splendens</i> Engelm.	U96893		Xiang et al. (1998)
Frankeniaceae	<i>Frankenia laevis</i> L.	AF204862		Meimberg et al. (2000)
Garryaceae	<i>Garrya elliptica</i> Douglas ex Lindl.	AJ581416	Chase 1098 (K)	this study
Geniostomaceae	<i>Geniostoma rupestre</i> J.R. Forst. & G. Forst.	Z70194		Endress et al. (1996)
Gesneriaceae	<i>Streptocarpus bindseilii</i> Eb. Fischer	AF531810		Müller et al. (in press)
Gisekiaceae	<i>Gisekia africana</i> Kuntze	AY042591		Cuénoud et al. (2002)
Greyiaceae	<i>Greyia radlkoferi</i> Szyszyl.	AF542592	Borsch 3486 (BONN)	this study
Griselinaceae	<i>Griselinia lucida</i> G. Forst.	U58628		Plunkett et al. (1997)
Grossulariaceae	<i>Ribes aureum</i> Pursh	L34153		Fishbein et al. (2001)
Gunneraceae	<i>Gunnera perpensa</i> L.	AY042596	Chase, Fay & Richardson 27 (K)	this study
Gyrocarpaceae	<i>Gyrocarpus americanus</i> Jacq.	AJ581417	Chase 317 (NCU)	this study
Halophytaceae	<i>Halophytum ameghinoi</i> Speg.	AY042599		Cuénoud et al. (2002)
Haloragaceae	<i>Haloragis aspera</i> Lindl.	AF274616		Fishbein et al. (2001)
Hamamelidaceae	<i>Disanthus cercidifolius</i> Maxim.	AJ581418	Chase 598 (K)	this study
Hamamelidaceae	<i>Hamamelis mollis</i> Oliv.	U92847		Manos and Steele (1997)
Hamamelidaceae	<i>Maingaya malayana</i> Oliver	AJ581419	Chase 13017 (K)	this study
Hamamelidaceae	<i>Mytilaria laoensis</i> Lecomte	AJ581420	Qiu 94016 (IU)	this study
Hamamelidaceae	<i>Rhodoleia championii</i> Hook. f.	AJ581421	Chase s.n. (K)	this study
Hemerocallidaceae	<i>Hemerocallis littorea</i> Makino	AJ581422	Chase 3833 (K)	this study
Hernandiaceae	<i>Hernandia nymphaeaeifolia</i> (C. Presl) Kubitzki	AJ247165		Rohwer (2000)
Himantandraceae	<i>Galbulimina belgraveana</i> (F. Muell.) Sprague	AY220441	Y.-L. Qiu 90034 (NCU)	Sauquet et al. (in press)
Hyacinthaceae	<i>Scilla peruviana</i> L.	AJ581423	Chase 1619 (K)	this study
Hydrangeaceae	<i>Hydrangea quercifolia</i> Bartram	U96882		Xiang et al. (1998)
Hydrangeaceae	<i>Kirengeshoma palmata</i> Yatabe	unpublished		Hufford et al. 2001
Hydrangeaceae	<i>Philadelphus caucasicus</i> Koehne	unpublished		Hufford et al. 2001
Hypoxid.	<i>Rhodohypoxis milloides</i> (Baker) Hillard & Burt	AJ581424	Chase 479 (K)	this study
Idiospermaceae	<i>Idiospermum australiense</i> (Diels) S.T.Blake	AJ581425	Qiu 91042 (NCU)	this study
Illiciaceae	<i>Illicium floridanum</i> Ellis	AF543738	Borsch 3552 (BONN)	Hilu et al. (submitted)

Iridaceae	<i>Iris pardanthopsis</i>	AJ581426	Chase I-155, (K)	this study
Iteaceae	<i>Itea virginica</i> L.	AF274618		Fishbein et al. (2001)
Ixioliriaceae	<i>Ixiolirion tataricum</i> (Pall.) Herb	AJ5814227	Chase 489 (K)	this study
Joinvilleaceae	<i>Joinvillea ascendens</i> Gaud. Ex Brogn. & Gris.	AF164380	H. Moore 10438 (BH)	Hilu et al. (1999)
Juncaginaceae	<i>Triglochin maritima</i> L.	AF542566	Borsch 3392 (BONN)	this study
Lactoridaceae	<i>Lactoris fernandeziana</i> Phil.	AF543739	Crawford & Stuessy s.n. (OS)	Hilu et al. (submitted)
Lamiaceae	<i>Lamium maculatum</i> L.	AF531780		Müller et al. (in press)
Lamiaceae	<i>Prostanthera ovalifolia</i> R.Br.	AJ581428	Chase 2522 (K)	this study
Lanariaceae	<i>Lanaria lanata</i> (L.) Dw. Schinz	AJ581429	Goldblatt 9410 (MO)	this study
Lardizabalaceae	<i>Akebia quinata</i> (Houtt.) Decne.	AF542587	Borsch 3412 (BONN)	this study
Lauraceae	<i>Cassytha ciliolata</i> Nees	AJ247152		Rohwer (2000)
Lauraceae	<i>Cinnamomum camphora</i> (L.) J. Presl.	AJ247154		Rohwer (2000)
Lauraceae	<i>Cryptocarya alba</i> (Molina) Looser	AJ247158		Rohwer (2000)
Lauraceae	<i>Umbellularia californica</i> (Hook. & Arn.) Nutt.	AF543752		Hilu et al. (submitted)
Lauraceae	<i>Lindera benzoin</i> (L.) Blume	AJ247169		Rohwer (2000)
Lentibulariaceae	<i>Pinguicula alpina</i> L.	AF531783		Müller et al. (in press)
Lentibulariaceae	<i>Genlisea aurea</i> St. Hil.	AF531814		Müller et al. (in press)
Lentibulariaceae	<i>Utricularia vulgaris</i> L.	AF531831		Müller et al. (in press)
Liliaceae	<i>Gagea wilczkii</i>	AJ581430	Chase 748 (K)	this study
Liliaceae	<i>Lilium superbum</i> L.	AJ581431	Chase 112 (NCU)	this study
Liliaceae	<i>Tricyrtis latifolia</i> Maxim.	AJ581432	Chase 548 (K)	this study
Linaceae	<i>Reinwardtia indica</i> Dumort.	AB048380		Kita and Kato (2000)
Loasaceae	<i>Caliphora lateritia</i> Benth.	AF503330		Moody et al. (2001)
Loasaceae	<i>Loasa triphylla</i> Juss.	AF503321		Moody et al. (2001)
Loasaceae	<i>Petalonyx nitidus</i> S. Wats.	U96904		Xiang et al. (1998)
Loganiaceae	<i>Strychnos nux-vomica</i> L.	Z70193		Endress et al. (1996)
Magnoliaceae	<i>Liriodendron chinense</i> (Hemsley) Sarg.	AB021016		Azuma et al. (1999)
Magnoliaceae	<i>Magnolia tripetala</i> L.	AB021001		Azuma et al. (1999)
Malpighiaceae	<i>Byrsonima crassifolia</i> (L.) Kunth	AJ581433	Fairchild Trop Gard 81680	this study
Malpighiaceae	<i>Dicella nucifera</i> Chodat	AJ581434	Anderson 13607 (MICH)	this study
Malpighiaceae	<i>Malpighia coccigera</i> L.	AJ581435	Matthei BG 20626 (MICH)	this study
Malvaceae	<i>Iliamna bakeri</i> (Jeps.) Wiggins	AF542603	Slotta 99-10 (VPI)	this study
Malvaceae	<i>Malacothamnus palmeri</i> (S. Watson) Greene	AF542604	Slotta 2000-10 (VPI)	this study
Martyniaceae	<i>Ibicella lutea</i> V. Eselt	AF531778		Müller et al. (in press)
Martyniaceae	<i>Proboscidea louisianica</i> (Mill.) Thell.	AF531809		Müller et al. (in press)
Melanophyllaceae	<i>Melanophylla alnifolia</i> Baker	U58626		Plunkett et al. (1997)
Melanthiaceae	<i>Veratrum maackii</i> Regel	AB017417		Osaloo et al. (1999)
Melanthiaceae	<i>Helonias bullata</i> L.	AB017375		Osaloo et al. (1999)
Menispermaceae	<i>Cocculus laurifolius</i> (Roxb.) DC.	AF542588	Borsch 3406 (BONN)	this study
Menispermaceae	<i>Stephania delavayi</i> Diels	AF542589	Borsch 3550 (BONN)	this study
Monimiaceae	<i>Hedycarya arborea</i> J.R.Forster & G.Forster	AJ581436	Qiu 90028 (NCU)	this study
Monimiaceae	<i>Tambourissa religiosa</i> (Tul.) A. DC.	AJ247189		Rohwer (2000)
Moraceae	<i>Ficus carica</i> L.	AY257530	Campbell 99-109 (MAINE)	this study
Moraceae	<i>Morus alba</i> L.	AY257531	Campbell 99-103 (MAINE)	this study
Musaceae	<i>Musa basjoo</i> Siebold & Zucc.	AJ581437	Chase 3952 (K)	this study
Myoporaceae	<i>Myoporum montanum</i> R.Br.	AF531808		Müller et al. (in press)
Myricaceae	<i>Myrica pensylvanica</i> Mirb.	AY491657	Chase 2500 (K)	this study
Myristicaceae	<i>Knema laurina</i> (Blume) Warb.	AY220450	A.R. Khalit 6197 (Z)	Sauquet et al. (in press)
Myristicaceae	<i>Mauloutchia chapelieri</i> (Baill.) Warb.	AY220451	H. Sauquet 30 (P)	Sauquet et al. (in press)
Myristicaceae	<i>Compsonura sprucei</i> (A. DC.) Warb.	AY220445	S.W. Brewer 297 (CAS)	Sauquet et al. (in press)
Myrothamnaceae	<i>Myrothamnus moschatus</i> (Baill.) Baill.	AF542591	E. Fischer & W. Höller (BONN)	this study

Myrtaceae	<i>Leptospermum trinervium</i> (Sm.) Joy Thomps.	AF184735		O'Brien et al. (2000)
Nartheciaceae	<i>Nartheicum asiaticum</i> Maxim.	AB040162		Fuse and Tamura (2000)
Nelumbonaceae	<i>Nelumbo nucifera</i> ssp. <i>lutea</i> (Willd.) T.Borsch & W.Barthlott	AF543740	Borsch & Summers 3220 (FR)	Hilu et al. (submitted)
Nepenthaceae	<i>Nepenthes alata</i> Blanco	AF204834		Meimberg et al. (2000)
Nothofagaceae	<i>Nothofagus obliqua</i> (Mirb.) Oerst.	AJ581438	Chase 2991 (K)	this study
Nyctaginaceae	<i>Bougainvillea</i> sp.	AF204865		Meimberg et al. (2000)
Nyctaginaceae	<i>Mirabilis jalapa</i> L.	AY042614		Cuénoud et al. (2002)
Nyctaginaceae	<i>Oxybaphus nyctagineus</i> Sweet	AY042624		Cuénoud et al. (2002)
Nymphaeaceae	<i>Nuphar lutea</i> L.	AF543741	Borsch 3337 (FR)	this study
Nymphaeaceae	<i>Barclaya longifolia</i> Wall.	AF092982		Les et al. (1999)
Nymphaeaceae	<i>Nymphaea odorata</i> Ait. ssp. <i>odorata</i>	AF543742	Borsch & Wilde 3132 (VPI, BONN)	Hilu et al. (submitted)
Nymphaeaceae	<i>Euryale ferox</i> Salisb.	AF542564	Borsch 3559 (BONN)	this study
Nyssaceae	<i>Nyssa ogeche</i> Marsh	U96886		Xiang et al. (1998)
Ochnaceae	<i>Discladium</i> sp.	AF542606	Borsch 3395 (BONN)	this study
Olacaceae	<i>Heisteria parviflora</i> Sm.	AY042600	Cheek 5985 (K)	this study
Olacaceae	<i>Olex benthamiana</i> Miq.	AY042620	Chase 2176 (K)	this study
Oleaceae	<i>Jasminum nudiflorum</i> Lindl.	AF531779		Müller et al. (in press)
Oncothecaceae	<i>Oncotheca balansae</i> Baill.	AJ581439	Jaffre 3238 (NOU)	this study
Onograceae	<i>Fuchsia procumbens</i> R. Cunn. ex A. Cunn	AJ581440	Chase 2501 (K)	this study
Opiliaceae	<i>Opilia</i> sp.	AY042621		Cuenoud et al. (2002)
Orchidaceae	<i>Cypripedium passerinum</i> Richardson	AJ581441	Albert 48 (K)	this study
Orchidaceae	<i>Cyrtochilum serratum</i> (Lindl.) Kraenzl.	AY491658	Chase 0-32 (K)	this study
Orchidaceae	<i>Phragmipedium wallisii</i> (Rehb. f.) Garay	AJ581442	Chase O-647 (K)	this study
Orchidaceae	<i>Vanilla planifolia</i> Jacks. ex Andrews	AJ581443	Chase O-199 (K)	this study
Oxalidaceae	<i>Oxalis stricta</i> L.	AF542605	Slotta 2000-1A (VPI)	this study
Paeoniaceae	<i>Paeonia parnassica</i> Tzanoud.	AF033613		Sang et al. (1997)
Papaveraceae	<i>Dicentra exima</i> (Ker Gawl.) Torr.	AF543734	Borsch 3468 (BONN)	Hilu et al. (submitted)
Passifloraceae	<i>Adenia digitata</i> (Harv.) Engl.	AY491659	Chase 251 (NCU)	this study
Paulowniaceae	<i>Paulownia tomentosa</i> Steud.	AF051997		Young et al. (1999)
Pedaliaceae	<i>Uncarina grandidieri</i> (Baill.) Stapf	AF531813		Müller et al. (in press)
Pedaliaceae	<i>Sesamum indicum</i> L.	AJ429340		Bremer et al. (2002)
Phytolaccaceae	<i>Lophiocarpus burchellii</i> Hook.f.	AY042611		Cuénoud et al. (2002)
Phytolaccaceae	<i>Phytolacca dioica</i> L.	AY042631		Cuénoud et al. (2002)
Phytolaccaceae	<i>Rivina humilis</i> L.	AY042646		Cuénoud et al. (2002)
Piperaceae	<i>Peperomia graveolens</i> Rauh & Barthlott	AF542574	Prinsler s.n. (BONN)	this study
Piperaceae	<i>Piper crocatum</i> Ruiz & Pav.	AF543745	Borsch 3553 (BONN)	Hilu et al. (submitted)
Pittosporaceae	<i>Pittosporum tobira</i> Ait.	U58624		Johnson et al. (1996)
Plagiopteraceae	<i>Plagiopteron suaveolens</i> Griff.	AJ581444	Chase 1335 (K)	this study
Platanaceae	<i>Platanus occidentalis</i> L.	AF543747	Slotta s.n. (VPI)	Hilu et al. (submitted)
Plocospermaceae	<i>Plocosperma buxifolium</i> Benth.	Z70192		Endress et al. (1996)
Plumbaginaceae	<i>Limonium cavanillesii</i> M. Erben	AY042610	Camunas et al. 12-VII- 94	Cuénoud et al. (2002)
Plumbaginaceae	<i>Plumbago indica</i> L.	AF204857		Meimberg et al. (2000)
Poaceae	<i>Andropogon gerardii</i> Vitman	AF144577	Hilu 5554 (VPI)	Hilu et al. (1999)
Poaceae	<i>Aristida adscensionis</i> L.	AF164412	Hilu 5516 (VPI)	Hilu et al. (1999)
Poaceae	<i>Briza erecta</i> Lam.	AF164401	Hilu 5590 (VPI)	Hilu et al. (1999)
Poaceae	<i>Centropodia glauca</i> (Nees) Cope	AF164408	N. Barker 967 (BOL)	Hilu et al. (1999)
Podostemaceae	<i>Cladopus javanicus</i> M. Kato & Hambali	AB066175		Kita and Kato (2000)
Polemoniaceae	<i>Cobaea scandens</i> L.	L48568		Johnson et al. (1996)
Polemoniaceae	<i>Phlox standsburyi</i> (Torr.) A. Heller	L48600		Johnson et al. (1996)
Polygonaceae	<i>Eriogonum flavum</i> Nutt.	AY042584		Cuénoud et al. (2002)
Polygonaceae	<i>Polygonum bistorta</i> L.	AF204859		Meimberg et al. (2000)
Pontederiaceae	<i>Pontederia cordata</i> L.	AJ581445	Chase 2996 (K)	this study
Portulacaceae	<i>Anacampseros vulcanensis</i> Añon	AF542597	Borsch 3595 (BONN)	this study
Portulacaceae	<i>Talinum paniculatum</i> (Jacq.) Gaertn.	AY015274		Nyffeler (2002)
Portulacaceae	<i>Montia parvifolia</i> Greene	AY042616	422971 (ISC)	Cuénoud et al. (2002)
Portulacaceae	<i>Portulaca oleracea</i> L.	AF204867		Meimberg et al. (2000)
Potamogetonaceae	<i>Potamogeton diversifolius</i> Raf.	AF542579	Borsch 3173 (VPI, FR)	this study

Primulaceae	<i>Anagallis tenella</i> (L.) L.	AJ581446	Chase 1910 (K)	this study
Primulaceae	<i>Primula</i> sp. L.	unpublished	Leigh Johnson s.n. (WS)	Johnson, L. (unpublished)
Proteaceae	<i>Protea laurifolia</i> Thunb.	AJ581447	Chase, Fay & Richardson 77 (K)	this study
Proteaceae	<i>Grevillea banksii</i> R.Br.	AF542583	Borsch 3413 (BONN)	this study
Pyrolaceae	<i>Pyrola rotundifolia</i> L.	U61328		Kron, K.A. (unpublished)
Ranunculaceae	<i>Xanthorhiza simplicissima</i> Marshal	AF542567	Borsch 3394 (BONN)	this study
Ranunculaceae	<i>Hepatica americana</i> (DC.) Ker Gawl.	AF542590	Slotta 2003-01 (VPI)	this study
Restionaceae	<i>Restio tetraphyllus</i> Labill.	AF164379		Hilu et al. (1999)
Rhabdodendraceae	<i>Rhabdodendron macrophyllum</i> (Spruce ex Benth.) Huber	AY042642		Cuénoud et al. (2002)
Rhamnaceae	<i>Ceanothus americanus</i> L.	AF049797		Hardig et al. (2000)
Rhamnaceae	<i>Frangula alnus</i> Mill.	AY257532	Campbell 00-19 (MAINE)	this study
Rhamnaceae	<i>Rhamnus cathartica</i> L.	AY257533	Evans 402 (TRT)	this study
Rhizophoraceae	<i>Bruguiera gymnorhiza</i> (L.) Savigny		Chase 12838 (K)	this study
Rosaceae	<i>Dryas drummondi</i> Richardson	AJ581448	Chase 917 (K)	this study
Rosaceae	<i>Prunus virginiana</i> L.	AY257534	Evans 275 (TRT)	this study
Rosaceae	<i>Rosa chinensis</i> Jacq.	AB039313		Wu, S., Ueda, Y., Matsumoto, S., and Nishihara, S. (unpublished)
Rosaceae	<i>Rubus chamaemorus</i> L.	AY366358	Alice R17 (MAINE)	this study
Rubiaceae	<i>Cinchona pubescens</i> Vahl	Z70197		Endress et al. (1996)
Rutaceae	<i>Fortunella margarita</i> (Lour.) Swingle	AB071289		Nalumpang et al. (2002)
Sabiaceae	<i>Meliosma veitchiorum</i> Hemsl.	AJ581449	Chase 2989 (K)	this study
Salicaceae	<i>Populus nigra</i> L.	unpublished	Chase 1002 (K)	this study
Santalaceae	<i>Osyris quadripartita</i> Salzm. ex Decne.	AY042623	Chase 1883 (K)	this study
Santalaceae	<i>Santalum album</i> L.	AY042650	Chase 10987 (K)	this study
Sapindaceae	<i>Aesculus paevia</i> L.	AJ581450	Chase 217 (NCU)	this study
Sapindaceae	<i>Cupaniopsis anacardioides</i> (A. Rich) Radlk.	AJ581451	Chase 217 (NCU)	this study
Sapindaceae	<i>Blighia sapinda</i> K.D. Koenig	AY491660	Chase 2124 (K)	this study
Sapindaceae	<i>Sapindus saponaria</i> L.	AY491661	Chase 2136 (K)	this study
Sarcobataceae	<i>Sarcobatus vermiculatus</i> Torr.	AY042652		Cuénoud et al. (2002)
Sarraceniaceae	<i>Sarracenia purpurea</i> L.	U96906	Xiang 252 (WS)	Xiang et al. (1998)
Saururaceae	<i>Houttuynia cordata</i> Thunb.	AF543737	Borsch 3481 (BONN)	Hilu et al. (submitted)
Saururaceae	<i>Saururus cernuus</i> L.	AF543749	Borsch & Wilde 3108 (VPI, FR)	Hilu et al. (submitted)
Saxifragaceae	<i>Heuchera micrantha</i> Douglas ex. Lindl.	L34126		Fishbein et al. (2001)
Saxifragaceae	<i>Saxifraga integrifolia</i> Hook.	L20131		Johnson and Soltis (1994)
Saxifragaceae	<i>Chrysosplenium iowense</i> Rydb.	L34120		Johnson and Soltis (1994)
Saxifragaceae	<i>Sullivantia sullivantii</i> (Torr. & A.Gray) Britton	L20130		Johnson and Soltis (1994)
Schisandraceae	<i>Schisandra rubriflora</i> (Franch.) Rehd. & Wils	AF543750	Borsch 3477 (BONN)	Hilu et al. (submitted)
Schisandraceae	<i>Kadsura japonica</i> (L.) Dun.	AF542565	Borsch 3411 (BONN)	this study
Scrophulariaceae	<i>Orobanche caryophyllacea</i> Sm.	AF051992		Young et al. (1999)
Scrophulariaceae	<i>Lathraea clandestina</i> L.	AF051989		Young et al. (1999)
Scrophulariaceae	<i>Melampyrum sylvaticum</i> L.	AF051991		Young et al. (1999)
Scrophulariaceae	<i>Striga asiatica</i> (L.) Kuntze	AF052000		Young et al. (1999)
Scrophulariaceae	<i>Pedicularis sylvatica</i> L.	AF531781		Müller et al. (in press)
Scrophulariaceae	<i>Gratiola officinalis</i> L.	AF531777		Müller et al. (in press)
Scrophulariaceae	<i>Torenia vagans</i> Roxb.	AF531812		Müller et al. (in press)
Simmondsiaceae	<i>Simmondsia chinensis</i> (Link) C.K. Schneid.	AF204863		Meimberg et al. (2000)
Smilacaceae	<i>Smilax china</i> L.	AB040204		Fuse and Tamura (2000)
Solanaceae	<i>Atropa belladonna</i> L.	AJ316582		Schmitz-Linneweber et al. (2002)
Solanaceae	<i>Nicotiana tabacum</i> L.	NC001879		
Staphyleaceae	<i>Staphylea pinnata</i> L.	AF542582	Borsch 3414 (BONN)	this study
Stemonaceae	<i>Stemona japonica</i> Franch. & Sav.	AB040210		Fuse and Tamura (2000)
Stylidiaceae	<i>Stylidium majus</i> (SW.) Druce	AF542576	Borsch 3417 (BONN)	this study
Styracaceae	<i>Halesia carolina</i> L.	AY491662	Chase 910 (K)	this study

Styracaceae	<i>Styrax americanus</i> Lam	unpublished	Leigh Johnson s.n. (WS)	Johnson, L. (unpublished)
Tamaricaceae	<i>Tamarix gallica</i> L.	AF204861		Meimberg et al. (2000)
Tetracarpaceae	<i>Tetracarpaea tasmanica</i> Hook. F.	L34154		Johnson & Soltis (1994)
Theaceae	<i>Stuartia pseudocamelia</i> Maxim.	AJ581452	Chase 964 (K)	this study
Thunbergiaceae	<i>Thunbergia alata</i> Bojer ex Sims	AF531881		Müller et al. (in press)
Tofieldiaceae	<i>Pleea tenuifolia</i> Michx.	AJ581453	Chase 152 (NCU)	this study
Tofieldiaceae	<i>Tofieldia nuda</i> Maxim. B248	AB040159		Fuse and Tamura (2000)
Trilliaceae	<i>Paris incompleta</i> M. Bieb.	AB018832		Kazempour Osaloo and Kawano (1999)
Trilliaceae	<i>Trillium sessile</i> L.	AB017406		Kazempour Osaloo et al. (1999)
Trochodendraceae	<i>Trochodendron aralioides</i> Siebold & Zucc.	AF543751	Borsch 3478 (BONN)	Hilu et al. (submitted)
Trochodendraceae	<i>Tetracentron senense</i> Oliv.	AY491663	Qiu 90009 (NCU)	this study
Ulmaceae	<i>Celtis occidentalis</i> L.	AY257535	Campbell 99-104 (MAINE)	this study
Ulmaceae	<i>Ulmus pumila</i> L.	AY257536	Campbell 99/107 (MAINE)	this study
Urticaceae	<i>Laportea canadensis</i> (L.) Wedd.	AY257537	Campbell 00-17 (MAINE)	this study
Velloziaceae	<i>Talbotia elegans</i> Balf.	AY491664	Chase 553 (K)	this study
Verbenaceae	<i>Verbena rigida</i> Spreng.	AF531820		Müller et al. (in press)
Vitaceae	<i>Cissampelos pareira</i> L.	AJ581454	Chase 347 (NCU)	this study
Vitaceae	<i>Vitis riparia</i> Michx.	AF542593	Borsch 3548 (BONN)	this study
Winteraceae	<i>Drimys lanceolata</i> (Poir.) Baill.	AF543735	Borsch 3484 (BONN)	Hilu et al. (submitted)
Winteraceae	<i>Pseudowintera colorata</i> (Raoul) Dandy	AF542572	Borsch 3490 (BONN)	this study
Winteraceae	<i>Takhtajania perrieri</i> (Capuron) Baranova & J.-F. Leroy	AJ581455	Rakotomalaza et al. 1342 (MO)	this study
Zingiberaceae	<i>Alpinia intermedia</i> Gagnep.	AB040213		Fuse and Tamura (2000)
Zosteraceae	<i>Zostera minima</i>	AJ581456	Chase 2791 (K)	this study
Zygophyllaceae	<i>Larrea cuneifolia</i> Cav.	AF542602	Barthlott 10055 (BONN)	this study

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