

**Givnish et al. – American Journal of Botany – Appendix S3** – GenBank accession numbers for sequences presented in this paper for the first time. Accession numbers for previously published sequences of individual genes are underlined; taxon identity and references for these sequences are indicated as footnotes. Regions for which no sequence was obtained are indicated by a hyphen (—). Alternative source details (i.e., living collection accession numbers) are given in place of voucher information in one case. Species for which seventeen genes were sequenced are indicated by an asterisk; in those cases, accession number are cited for the following genes in order: *atpB*, *ndhF*, *psbB-T-N-H*, *psbD-C*, *psbE-F-L-J*, *rbcl*, *rpl2*, *ndhB*, *3'-rps12-rps7*.

*Aframomum angustifolium* (Sonn.) K. Schum. MH603398

*Alpinia purpurata* (Vieill.) K. Schum. MH603399

*Alpinia zerumbet* (Pers.) B. L. Burtt & R. M. Sm. MH603400

\**Anarthria prolifera* R. Br. EU832848, EU832882, —, —, EU832932, AF148760.1<sup>1</sup>, EU832961, —, EU832980; *Anarthria scabra* R. Br. —, —, —, —, —, —, —, EU832864, —;

*Anigozanthos flavidus* DC. MH588512

\**Aratitiopea lopezii* (L.B. Sm.) Steyerl. & P.E. Berry EU832863, EU832897, EU832913, EU832927, EU832950, EU832960, EU832979, EU832881, EU832994.

*Borya sphaerocephala* R.Br. MH616107, MH616112, MH616115, MH616119, MH616123, MH616128, MH616131, MH616134, MH616139, MH616143, MH616146, MH616150, MH616154, MH616158, MH616163, MH616167, MH616171, MH616174, MH616178, MH616184, MH616186, MH616190, MH616194, MH616198, MH616202, MH616206, MH616210, MH616214, MH616219, MH616222, MH616226, MH616230, MH616236, MH616240, MH616242, MH616246, MH616250, MH616254, MH616258, MH616265, MH616266, MH616272, MH616274, MH616278, MH616284, MH616288, MH616290, MH616294, MH616298, MH616304, MH616306, MH616313, MH616317, MH616321, MH616325, MH616329, MH616333, MH616337, MH616341, MH616345, MH616352, MH616356, MH616360, MH616364, MH616368, MH616381, MH616385, MH616392, MH616396

*Calathea roseopicta* (Linden) Regel

*Canna indica* L. H. Bailey MH60340

*Canna iridiflora* Ruiz & Pav. MH603402

*Canna jaegeriana* Urb. MH603403

*Chamaecostus acaulis* (S.Moore) T.André & C.D.Specht MH603404

*Cheilocostus speciosus* (J.Koenig) C.D.Specht MH603405

*Costus dubius* (Afzel.) K. Schum. MH603406

*Costus gabonensis* Koechlin MH603407

*Costus osae* Maas & H. Maas MH603408

*Costus pictus* D. Don MH603409

*Costus pulverulentus* C. Presl MH603410

*Curcuma longa* L. MH603411

*Curcuma roscoeana* Wall. MH603412

*Dimerocostus strobilaceus* Kuntze MH603413

*Donax canniformis* K.Schum. MH603414

*Elettariopsis stenosphon* (K. Schum.) B. L. Burtt & R. M. Sm. MH603415

\**Eriocaulon compressum* Lam. EU832854, EU832890, EU832905, EU832921, EU832941, EU832954, EU832970, EU832873,  
EU832985

*Ensete superbum* Roxb. MH603416

*Ensete venticosum* (Welw.) Cheesman MH603417

*Etilingera elatior* (Jack) R. M. Sm. MH603418

*Globba winitii* C. H. Wright MH603419

*Goepertia roseopicta* (Linden) Borchs. & S. Suárez MH603420

*Halopegia azurea* (K. Schum.) K. Schum. MH603421

*Hedychium coronarium* J. Koenig MH603422

*Heliconia acuminata* A. Rich. MH603423

*Heliconia collinsiana* Griggs NC020362

*Heliconia collinsiana* Griggs CS23 MH603424

*Heliconia* sp. 41 MH603397

*Heliconia* sp. (HNT 10823) 25 MH603426

*Heliconia nutans* Woodson MH603425

*Herreria bonplandii* Lecomte MH616109, MH616111, MH616117, MH616120, MH616124, MH616127, MH616132, MH616135, MH616140, MH616144, MH616147, MH616151, MH616155, MH616159, MH616164, MH616168, MH616170, MH616175, MH616179, MH616182, MH616187, MH616191, MH616195, MH616199, MH616203, MH616207, MH616212, MH616215, MH616218, MH616223, MH616228, MH616232, MH616235, MH616241, MH616243, MH616247, MH616252, MH616256, MH616260, MH616262, MH616267, MH616271, MH616275, MH616279, MH616283, MH616289, MH616293, MH616295, MH616299, MH616303, MH616307, MH616311, MH616314, MH616319, MH616322, MH616326, MH616330, MH616334, MH616339, MH616344, MH616346, MH616349, MH616353, MH616357, MH616362, MH616365, MH616369, MH616372, MH616377, MH616379, MH616382, MH616386, MH616391, MH616394, MH616395

\**Hopkinsia anoectocolea* (F. Muell.) D.F. Cutler —, —, EU832898, EU832914, EU832933, [AF148777<sup>2</sup>](#), EU832962, —, EU832981; *Hopkinsia anoectocolea* (F. Muell.) D. F. Cutler —, EU832845, —, —, —, —, EU832865, —;

*Ishmosiphon heleniae* L. Andersson MH603427

<sup>†</sup>*Lilium* sp. MH616108, MH616114, MH616114, MH616118, MH616121, MH616125, MH616129, MH616136, MH616138, MH616142, MH616149, MH616152, MH616156, MH616160, MH616165, MH616169, MH616172, MH616176, MH616181, MH616183, MH616189, MH616193, MH616196, MH616201, MH616205, MH616208, MH616211, MH616216, MH616221, MH616225, MH616227, MH616233, MH616237, MH616238, MH616244, MH616249, MH616253, MH616257, MH616259, MH616263, MH616269, MH616270, MH616277, MH616281, MH616282, MH616286, MH616292, MH616297, MH616301, MH616302, MH616308, MH616310, MH616316, MH616318, MH616323, MH616328, MH616331, MH616336, MH616338, MH616342, MH616348, MH616351, MH616355, MH616359, MH616363, MH616371, MH616373, MH616375, MH616380, MH616384, MH616387, MH616389, MH616393, MH616397

\**Luzula parviflora* (Ehrh.) Desv. subsp. *parviflora* EU832857, —, EU832908, EU832924, EU832944, EU832957, EU832973, EU832876, EU832988.

\**Lyginia imberbis* R. Br. [AJ419130<sup>3</sup>](#), EU832883, —, —, EU832934, [AF148787<sup>4</sup>](#), EU832963, EU832866, —;

*Marantochloa leucantha* (K. Schum.) Milne-Redh. MH603428

*Monocostus uniflorus* (Poepp. ex Petersen) Maas MH603429

*Musa basjoo* Siebold & Zucc. ex Iinuma MH603430

*Musa coccinea* Andrews MH603431

*Musa ornata* Roxb. MH603432

*Musa textilis* Née (FTBG 2007-0825A) MH603433

*Musella lasiocarpa* (Franch.) C. Y. Wu ex H. W. Li MH603434

*Orchidantha fimbriata* Holttum MH603435

*Orchidantha maxillarioides* (Ridl.) K. Schum. MH603436

*Philydrum lanuginosum* Banks et Gaertn. MH550470

*Pontederia cordata* L. MH616110, MH616113, MH616116, MH616122, MH616126, MH616130, MH616133, MH616137, MH616141, MH616145, MH616148, MH616153, MH616157, MH616161, MH616162, MH616166, MH616173, MH616177, MH616180, MH616185, MH616188, MH616192, MH616197, MH616200, MH616204, MH616209, MH616213, MH616217, MH616220, MH616224, MH616229, MH616231, MH616234, MH616239, MH616245, MH616258, MH616251, MH616255, MH616261, MH616264, MH616268, MH616273, MH616276, MH616280, MH616285, MH616287, MH616291, MH616296, MH616300, MH616305, MH616309, MH616312, MH616315, MH616320, MH616325, MH616327, MH616332, MH616335, MH616340, MH616343, MH616347, MH616350, MH616354, MH616358, MH616361, MH616367, MH616370, MH616374, MH616376, MH616378, MH616383, MH616388, MH616390, MH616398

\**Prionium serratum* (L. f.) Drège EU832861, EU832896, EU832911, EU832926, EU832948, EU832959, EU832977, EU832880, EU832992.

\**Rapatea paludosa* Aublet EU832859, EU832894, EU832910, EU832929, EU832946, EU832958, EU832975, EU832878, EU832990.

*Ravenala madagascariensis* Sonnerat MH603437

*Renealmia alpinia* (Rottb.) Maas MH603438

*Riedelia* sp. MH603439

*Scaphochlamys* sp. MH603440

*Siamanthus siliquosus* K. Larsen & J. Mood MH603441

*Siphonochilus kirkii* (Hook. f.) B. L. Burtt MH603442

*Sobralia* aff. *bouchei* KT388108

\**Stegolepis* sp. EU832860, EU832895, EU832995, EU832930, EU832947, [AY123242](#)<sup>5</sup>, EU832976, EU832879, EU832991.

*Strelitzia caudata* R.A.Dyer MH603443

*Strelitzia reginae* Aiton MH603444

*Stromanthe stromanthoides* (J. F. Macbr.) L. Andersson MH603445

*Tapeinochilos ananassae* (Hassk.) K. Schum. MH603446

*Thaumatococcus daniellii* (Benn.) Benth. MH603447

*Zingiber officinale* Roscoe MH603448

*Zingiber spectabile* Griff. MH603449

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<sup>1</sup>*Anarthria polyphylla*, Briggs, B.G., Marchant, A.D., Gilmore, S., and Porter, C.L. 2000. A molecular phylogeny of Restionaceae and allies. Pages 661–671 *In* Monocots: Systematics and Evolution. Edited by K.L. Wilson and D.A. Morrison. CSIRO, Collingwood, Victoria, Australia, pp. 661–671.

<sup>2</sup>*Hopkinsia adscendens*, Briggs et al. (2000)

<sup>3</sup>*Lyginia barbata*, Bremer, K. 2002. Gondwanan evolution of the grass alliance of families (Poales). *Evolution* 56: 1374–1387.

<sup>4</sup>*Lyginia barbata*, Briggs et al. (2000)

<sup>5</sup>*Stegolepis parvipetala*, Michelangeli, F.A., Davis, J.I., and Stevenson, D.W. 2003. Phylogenetic relationships among Poaceae and related families as inferred from morphology, inversions in the plastid genome, and sequence data from the mitochondrial and plastid genomes. *American Journal of Botany* 90: 93–106.

†Originally collected as *Kuntheria pedunculata*, but apparently an error in tube labelling led to the sequencing of a *Lilium* species close to *L. lancifolium*, based on comparisons with GenBank accession NC035589.1.