

Supplementary Table S1. Voucher information and GenBank numbers (PRK, RPB2, *rbcL*, *rps16*, *matK*, *ndhF*, *rpoC1* *accD*, and *trnL-F*) for all accessions used in this study. The sequences generated in this study are marked with * and – represent missing sequences.

Name of taxa	GenBank accession numbers								
	PRK	RPB2	<i>rbcL</i>	<i>rps16</i>	<i>matK</i>	<i>ndhF</i>	<i>rpoC1</i>	<i>accD</i>	<i>trnL-F</i>
<i>Actinorhytis calapparia</i>	AJ831223	AJ830024	MG437684	MG647500	HG969979	MG647241	MG438196	MG437943	HG969945
<i>Acanthophoenix rubra</i>	AF453329	AJ830020	AJ829844	AM116836	AM114691	MG647281	MG438236	-	AM113679
<i>Adonidia merrillii</i>	KJ598276	AJ830193	MG437730	MG647546	MK704941	MG647285	MG438239	MG437986	AB817688
<i>Archontophoenix purpurea</i>	AJ831227	AJ830028	MG437685	MG647501	HG969974	MG647242	MG438197	MG437944	HG969940
<i>Areca vestiaria</i>	LT671885	LT671910	AY012497	AY044584	MK705054	AY044535	-	-	-
<i>Arenga pinnata</i>	OP009482	OP009494	ON981421	ON981433	OP009506	ON996963	-	-	-
<i>Arenga wightii</i>	OP009484	OP009496	ON981423	ON981435	OP009508	ON996965	-	-	-
<i>Balaka seemannii</i>	JF833372	JF833395	AJ404814	AJ240896	AM114695	MG647288	MG438242	MG437989	AJ241305
<i>Basselinia velutina</i>	-	-	MG437693	MG647509	AM114667	MG647250	MG438205	MG437952	AM113662
<i>Bentinckia condapanna</i>	OQ032520*	OQ032522*	OQ032524*	OQ032526*	OQ032528*	-	-	-	-
<i>Bentinckia nicobarica</i>	OQ032521*	OQ032523*	OQ032525*	OQ032527*	OQ032529*	OQ032530*	MG438256	MG438003	AM113687
<i>Brassiophoenix schumannii</i>	KJ598275	-	MG437739	AJ240897	AM114699	MG647294	MG438248	MG437995	AJ241306
<i>Burretiokentia vieillardii</i>	AJ831243	AJ830039	MG437694	MG647510	-	MG647251	MG438206	MG437953	-
<i>Carpoxydon macrospermum</i>	AF453337	AJ830055	MG437701	MG647517	AM114673	MG647258	MG438213	MG437960	AM113667
<i>Carpentaria acuminata</i>	AJ831259	AJ830196	MG437735	HG969818	HG969984	MG647290	MG438244	MG437991	HG969950
<i>Chambeyronia macrocarpa</i>	AJ831260	AJ830056	MG437687	MG647503	HG969962	AY044536	MG438199	MG437946	HG969931
<i>Clinostigma savoryanum</i>	AJ831263	AJ830059	MG437748	AF449148	LC680314	MG647303	MG438257	MG438004	AM113688
<i>Clinosperma bracteale</i>	AJ831261	AJ830057	MG437706	MG647522	AM114680	MG647263	MG438217	MG437964	AM113674
<i>Cyrtostachys renda</i>	AF453341	AJ830062	MG437749	AJ404940	AM114707	MG647304	MG438258	MG438005	-
<i>Cyphophoenix nucele</i>	AJ831266	AJ830061	AJ404821	AJ240900	AM114669	MG647253	MG438208	MG437955	AJ241309
<i>Cyphosperma balansae</i>	-	AY543098	MG437698	MG647514	HG969988	MG647255	MG438210	MG437957	HG969954
<i>Cyphokentia macrostachya</i>	AJ831264	AJ830060	MG437704	MG647520	-	MG647261	MG438215	MG437962	AM113670
<i>Deckenia nobilis</i>	AF453342	AJ830063	MG437725	MG647541	-	MG647280	MG438235	MG437983	-
<i>Dictyosperma album</i>	AF453343	AJ830064	MG437750	AM116846	AM114708	MG647305	MG438259	MG438006	AM113689
<i>Dransfieldia micrantha</i>	AJ831326	AJ830139	MG437751	AM116847	AM114709	MG647306	MG438260	MG438007	AM113690
<i>Dransfieldia micrantha</i> (T1)	AJ831326	AJ830139	AJ829920	-	-	-	MG438260	MG438007	AM113690
<i>Drymophloeus beguinii</i>	KJ598261	AJ830197	AY012494	AY044586	KJ598356	AY044537	-	-	-
<i>Dypsis lutescens</i>	AF453346	AJ830078	MG437709	MG647525	AM114681	EU004903	MG438220	MG437967	-

<i>Hedyscepe canterburyana</i>		AJ971833	MG437742	AJ404938	KJ598380	MG647297	MG438251	MG437998	-
<i>Heterospathe elata</i>	AF453350	AJ830085	MG437752	EF605590	AM114710	MG647307	MG438261	MG438008	AM113691
<i>Heterospathe longipes</i>	AM260638	AM260637	MG437753	MG647569	HG969987	MG647308	MG438262	MG438009	HG969953
<i>Heterospathe longipes</i> (T2)	AJ831226	AJ830027	AJ829850	-	-	-	-	-	-
<i>Howea forsteriana</i>	AJ971828	MK102320	MG437722	MG647538	AM889716	MG647277	MG438232	MG437980	-
<i>Hydriastele costata</i> (T4)	AY348926	AY543128	-	-	-	-	-	-	-
<i>Hydriastele microspadix</i>	AY348935	AY546246	MG437754	AJ404943	AM114712	MG647309	MG438263	MG438010	-
<i>Hydriastele ledermanniana</i> (T5)	AF453349	AY543118	AJ404816	AJ240898	-	-	-	-	AJ241307
<i>Hydriastele ledermanniana</i> (T6)		AJ833635	MG437755	MG647571	AM114713	MG647310	MG438264	MG438011	-
<i>Hydriastele macrospadix</i> (T3)	AY348929	AY543133	-	-	-	-	-	-	-
<i>Hyphaene dichotoma</i>	OP009488	OP009500	ON981427	ON981439	-	-	-	-	-
<i>Iguanura wallichiana</i>	-	AY543099	MG437756	AJ404946	AM114714	MG647311	MG438265	MG438012	-
<i>Kentiaopsis oliviformis</i>	AF453353	AY543101	MG437688	MG647504	HG969965	MG647245	MG438200	MG437947	HG969932
<i>Laccospadix australasica</i>	AJ831301	AJ830109	AJ404812	AJ240895	AM114689	MG647278	MG438233	MG437981	AJ241304
<i>Lemurophoenix halleuxii</i>	AF453354	AM260636	AJ404801	AJ404935	AM114682	MG647267	MG438221	MG437968	-
<i>Linospadix monostachya</i>	-	EF491151	AJ404811	EF605586	AM114688	DQ273112	MG438231	MG437979	AB522466
<i>Loxococcus rupicola</i>	AY348943	AY543152	MG437757	AM116851	KJ598377	MG647312	MG438266	MG438013	AM113694
<i>Manjekia maturbongsii</i>	JF833370	JF833393	MG437731	MG647547	KJ598374	MG647286	MG438240	MG437987	-
<i>Marojejya insignis</i>	AJ831307	AJ830122	AM110230	AM116832	AM114684	MG647270	MG438224	MG437971	AM113675
<i>Nenga pumila</i>	AF453361	AY543155	AJ404818	AJ404944	MK705052	MG647247	MG438202	MG437949	-
<i>Neoveitchia storckii</i>	AJ831319	AJ830130	MG437703	MG647519	AM114675	MG647260	-	-	AM113669
<i>Nephrosperma vanhoutteanum</i>	AF453362	AJ830131	AJ829889	MG647559	MK705031	MG647298	MG438252	MG437999	-
<i>Normanbya normanbyi</i>	FJ032019	FJ200372	MG437738	MG647554	KJ598368	MG647293	MG438247	MG437994	-
<i>Oncosperma tigillarum</i>	-	MK102338	AY012505	MG647540	AM114690	AF453474	MG438234	MG437982	HG969949
<i>Pinanga coronata</i>	AY348944	AY543156	MG437691	MG647507	MK705040	MG647248	MG438203	MG437950	-
<i>Physokentia rosea</i>	AJ831322	AJ830138	AJ829896	AM116822	AM114671	MG647257	MG438212	MG437959	AM113665
<i>Phoenicophorium borsigianum</i>	AF453368	AJ830136	AJ829893	AM116843	AM114703	HG969754	MG438253	MG438000	HG969952
<i>Ponapea ledermanniana</i>	KJ598277	AJ830199	MG437729	MG647545	KJ598372	MG647284	MG438238	MG437985	AM113682
<i>Ptychosperma macarthurii</i>	KJ598253	AJ830201	MG437728	MG647544	MK704980	MG647283	MG438237	MG437984	AM113681
<i>Ptychococcus paradoxus</i>	AJ831324	AJ830200	AJ829906	AM116842	AM114700	MG647295	MG438249	MG437996	AM113685
<i>Rhopaloblaste augusta</i>	AF453373	AY543107	AM110244	AM116852	AM114717	MG647313	MG438267	MG438014	AM113695
<i>Rhopalostylis baueri</i>	-	AJ830145	MG437741	HG969819	HG969985	MG647296	MG438250	MG437997	HG969951
<i>Roscheria melanochaetes</i>	AF453374	AJ830140	AJ404822	AJ404947	AM114704	MG647300	MG438254	MG438001	-

<i>Satakentia liukuensis</i>	AF453376	AJ830146	MG437702	MG647518	AM114674	MG647259	MG438214	MG437961	AM113668
<i>Tectiphiala ferox</i>	AF453380	AJ830148	MG437727	MG647543	AM114692	MG647282	-	-	AM113680
<i>Trachycarpus takil</i>	OP009491	OP009503	ON981430	ON981442	OP009512	ON996968	-	-	-
<i>Veitchia arecina</i>	JF833388	JF833410	AJ404813	AJ404942	AM114696	MG647289	MG438243	MG437990	-
<i>Verschaffeltia splendida</i>	AF453381	AJ830150	AJ829916	EF605588	MK705030	MG647301	MG438255	MG438002	-
<i>Wodyetia bifurcata</i>	KJ598260	AJ830206	MG437736	AM116841	AM114698	MG647291	MG438245	MG437992	AM113684