

Table S1. Details of material examined. Family names abbreviated: E, Eublepharidae; D, Diplodactylidae; C, Carphodactylidae; Py, Pygopodidae; S, Sphaerodactylidae; Ph, Phyllodactylidae; G, Gekkonidae; and o, outgroups. Presence/absence of toepad morphologies are indicated. We used the following abbreviations: AMB, Aaron M. Bauer; AMCC, Ambrose Monell Cryo Collection, American Museum of Natural History; AMS, Australian Museum, Sydney; BPBM, Bernice P. Bishop Museum; BPN, Brice P. Noonan; CAS, California Academy of Sciences; CHUNB, Coleção Herpetológica da Universidade de Brasília; DB, Don Buden; ENS, Eric N. Smith; FG/MV, Frank Glaw and Miguel Vences; FGZC, Frank Glaw; FK, Fred Kraus; FLMNH, Florida Museum of Natural History; FMNH, Field Museum of Natural History; GVH, Gerald V Haagner; ID, Indraneil Das; JAC, Jonathan Campbell; JB, Jon Boone; JBL, Jonathan B. Losos - *Anolis* Genome Sequencing Project; JFBM, James Ford Bell Museum of Natural History, University of Minnesota; DJH, D. James Harris; JEM, John E. Measey; JS, Jay Sommers; JVV, Jens V. Vindum; KU, University of Kansas Museum of Natural History; LJAMM, Luciano J. Avila and Mariana Morando; LSHC, La Sierra University Herpetological Collection, L. Lee Grismer; LSUMZ, Louisiana State University Museum of Zoology; MCZ, Museum of Comparative Zoology, Harvard University; MF, Mike Forstner; MHNSM, Museo de Historia Natural, Universidad Nacional Mayor de San Marcos; MTSN, Trento Museum of Natural Sciences; MV, Museum of Victoria; MVZ, Museum of Vertebrate Zoology, Berkeley; MZUSP, Universidade de São Paulo, Museu de Zoologia; NMZ, National Museum of Zimbabwe; QM, Queensland Museum; PEM, Port Elizabeth Museum; RAH, Rod A. Hitchmough; RMB, Rafe M. Brown; ROM, Royal Ontario Museum; SAM, South Australian Museum; SC, Salvador Carranza; TG, Tony Gamble; WBJ, W. Bryan Jennings; WDH, Wulf D. Haacke; USNM, National Museum of Natural History, Smithsonian Institution; YPM, Yale Peabody Museum; ZCMV, Miguel Vences; ZFMK, Zoologisches Forschungsinstitut und Museum Alexander Koenig; ZSM, Zoologische Staatssammlung München.

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
C	<i>Carphodactylus laevis</i>	No	N/A	No	AMS 143258	Lamb Range, Queensland, Australia	EF534781	EF534947	EF534905	EF534862	EF534821	GU459943
C	<i>Nephrurus levis</i>	No	N/A	No	AMS 140561	Western Australia, Australia	GU459544	JQ945487	JQ945593	JQ945700	GU459746	AY369018
C	<i>Orraya occultus</i>	No	N/A	No	QM A002513	Queensland, Australia	JQ945320	–	–	–	JQ945388	JX041389
C	<i>Phyllurus platurus</i>	No	N/A	No	AMB 42	Sydney, NSW, Australia	HQ426314	HQ426488	HQ426570	HQ426397	HQ426226	JX024357
C	<i>Saltuarius swaini</i>	No	N/A	No	AMS 143262	Lamb Range, Queensland, Australia	JQ945338	JQ945509	JQ945616	JQ945722	JQ945407	JX024356
C	<i>Underwoodisaurus milii</i>	No	N/A	No	AMB 499	Denham, Western Australia, Australia	EF534780	EF534946	EF534904	EF534861	EF534820	JX041460
C	<i>Uvidicolus sphyrurus</i>	No	N/A	No	AMS R152351	Mt. Yulladunida, Kaputar Natl. Park, New South Wales, Australia	GU459543	JQ945521	JQ945627	JQ945734	GU459745	GU459944
D	<i>Amalasia rhombifer</i>	Yes	Yes	No	AMS 136216	vic. Bells Creek, Queensland, Australia	JQ945319	JQ945489	JQ945595	JQ945702	JQ945387	JX024363
D	<i>Bavayia cyclura</i>	Yes	No	No	AMB 7683	nr. Voh, New Caledonia	HQ426264	HQ426437	HQ426521	HQ426344	HQ426176	JX041315
D	<i>Bavayia geitaina</i>	Yes	No	No	AMB 7229	Mt. Ouin, New Caledonia	JQ945285	JQ945424	JQ945532	JQ945638	JQ945353	JX041316

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
D	<i>Bavayia madjo</i>	Yes	No	No	AMS R149329	Mt. Panié, New Caledonia	JQ945286	JQ945425	JQ945533	JQ945639	JQ945354	GU459950
D	<i>Crenadactylus ocellatus</i>	Yes	Yes	No	AMS R162089	Trephina Gorge, Northern Territory, Australia	AY662627	JQ945439	FJ571641	JQ945652	JQ945367	JX024364
D	<i>Dierogekko insularis</i>	Yes	No	No	AMS R161069	Ile Art, Belep Ids., New Caledonia	JQ945306	JQ945448	JQ945555	JQ945661	JQ945375	JF972458
D	<i>Diplodactylus conspicillatus</i>	Yes	Yes	No	AMS 158426	Sturt Natl. Park, NSW, Australia	HQ426278	HQ426451	HQ426533	HQ426358	HQ426189	JQ173628
D	<i>Diplodactylus tessellatus</i>	Yes	Yes	No	AMS 143855	Stonehenge area, Queensland, Australia	JQ173725	JQ945449	JQ945556	JQ945662	JQ173677	JQ173631
D	<i>Eurydactylodes agricolae</i>	Yes	No	No	AMS R149366	Mt. Panié, New Caledonia	GU459547	JQ945453	JQ945560	JQ945666	GU459749	DQ533758
D	<i>Lucasium damaeum</i>	No	N/A	No	AMB 54	58 km S Alice Springs, NT, Australia	HQ426279	HQ426452	HQ426534	HQ426359	HQ426190	GU459953
D	<i>Lucasium stenodactylum</i>	Yes	Yes	No	AMS 139897	El Questro Station, Western Australia, Australia	JQ173724	JQ945477	JQ945584	JQ945690	JQ173676	JQ173630
D	<i>Naultinus gemmeus</i>	Yes	No	No	RAH 464	Hakataramea, New Zealand	GU459361	JQ945486	JQ945592	JQ945699	GU459563	GU459764
D	<i>Oedodera marmorata</i>	Yes	No	No	CAS 230936	Paagoumène, New Caledonia	JQ945318	JQ945488	JQ945594	JQ945701	JQ945386	GU459947
D	<i>Oedura marmorata</i>	Yes	Yes	No	AMS 143861	Stonehenge area, Queensland, Australia	EF534779	EF534945	EF534903	EF534860	EF534819	GU459951

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D	<i>Pseudothecadactylus lindneri</i>	Yes	No	No	MVZ 99544	Kakadu Natl. Park, NT, Australia	HQ426318	HQ426492	HQ426573	HQ426401	HQ426230	GU459946
D	<i>Rhacodactylus ciliatus</i>	Yes	No	No	TG 00080	New Caledonia	–	EF534944	EF534902	EF534859	–	–
D	<i>Rhacodactylus ciliatus</i>	Yes	No	No	AMS 146595	Rivière Bleue, New Caledonia	EF534778	–	–	–	EF534818	JX024438
D	<i>Rhacodactylus leachianus</i>	Yes	No	No	AMB 7189	Ilot Moro, New Caledonia	GU459548	JQ945505	JQ945612	JQ945718	GU459750	GU459949
D	<i>Rhynchoedura ornata</i>	Yes	Yes	No	AMS 155371	Sturt National Park, New South Wales, Australia	GU459553	JQ945508	JQ945615	JQ945721	GU459755	GU459954
D	<i>Strophurus aberrans</i>	Yes	Yes	No	AMS 136023	Tanami Road, Western Australia, Australia	JQ173761	JQ945511	–	JQ945724	JQ173715	JQ173667
D	<i>Strophurus elderi</i>	Yes	Yes	No	AMS 130987	Silver City Hwy, New South Wales, Australia	JQ173763	JQ945512	JQ945618	JQ945725	JQ173717	JQ173669
D	<i>Strophurus strophurus</i>	Yes	Yes	No	AMS 140536	Denham, Western Australia, Australia	JQ173766	JQ945513	JQ945619	JQ945726	JQ173720	JQ173672
D	<i>Woodworthia maculata</i>	Yes	No	No	RAH 292	Titahi Bay, New Zealand	GU459449	JQ945522	JQ945628	JQ945735	GU459651	GU459852
E	<i>Aeluroscalabotes felinus</i>	No	N/A	No	JB 16	Cameron Highlands, Malaysia	HQ426259	HQ426432	HQ426517	HQ426338	HQ426171	JX041301
E	<i>Coleonyx brevis</i>	No	N/A	No	TG 00194	Hudspeth County, Texas, USA	HQ426271	HQ426444	HQ426528	HQ426351	HQ426182	JX041333
E	<i>Coleonyx mitratus</i>	No	N/A	No	TG 00075	unknown	HQ426272	HQ426445	HQ426529	HQ426352	HQ426183	JX041334

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E	<i>Coleonyx variegatus</i>	No	N/A	No	CAS 205334	Imperial Co., California, USA	EF534777	EF534943	EF534901	EF534858	EF534817	JX041335
E	<i>Eublepharis macularius</i>	No	N/A	No	JS 2	Pakistan	EF534776	–	–	–	EF534816	JX041350
E	<i>Eublepharis macularius</i>	No	N/A	No	TG 00081	Pakistan	–	EF534942	EF534900	EF534857	–	–
E	<i>Goniurosaurus araneus</i>	No	N/A	No	JFBM 15830	Vietnam	HQ426286	HQ426455	HQ426537	HQ426362	HQ426197	JX041364
E	<i>Goniurosaurus luii</i>	No	N/A	No	TG 00795	China	HQ426287	HQ426456	HQ426538	HQ426363	HQ426198	JX041365
E	<i>Hemitheconyx caudicinctus</i>	No	N/A	No	TG 00180	unknown	HQ426294	HQ426468	HQ426552	HQ426377	HQ426205	JX041370
E	<i>Hemitheconyx taylori</i>	No	N/A	No	JB 12	Somalia	HQ426295	HQ426469	HQ426553	HQ426378	HQ426206	JX041371
E	<i>Holodactylus africanus</i>	No	N/A	No	CAS 198845	Kajiado District, Kenya	HQ426296	HQ426470	HQ426554	HQ426379	HQ426207	JX041372
G	<i>Afroedura karroica</i>	Yes	Yes	Yes	PEM FN1112	Eastern Cape Province, South Africa	JQ945277	JQ945415	JQ945523	JQ945629	JQ945345	JX041302
G	<i>Afroedura loveridgei</i>	Yes	Yes	Yes	GVH 3969	Mozambique	JQ945278	JQ945416	JQ945524	JQ945630	JQ945346	JX041303
G	<i>Afrogecko plumicaudus</i>	Yes	Yes	No	WDH 1	Parque Nacional do Iona, Cunene Prov., Angola	JQ945279	JQ945417	JQ945525	JQ945631	JQ945347	JX041304
G	<i>Afrogecko porphyreus</i>	Yes	Yes	No	CAS 206995	Cape Hangklip, Western Cape Prov., South Africa	EF490723	JQ945418	JQ945526	JQ945632	EF490697	EF490776
G	<i>Afrogecko swartbergensis</i>	Yes	Yes	No	JB 47	Swartberg Mts., Western Cape Prov., South Africa	JQ945280	JQ945419	JQ945527	JQ945633	JQ945348	JX041305
G	<i>Agamura persica</i>	No	N/A	No	FMNH 247474	Makran Dist., Baluchistan,	JQ945281	JQ945420	JQ945528	JQ945634	JQ945349	JX041306

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						Pakistan						
G	<i>Ailuroonyx tachyscopaeus</i>	Yes	No	No	MCZ F38717	Silhouette Island, Seychelles	JQ945282	JQ945421	JQ945529	JQ945635	JQ945350	JX041307
G	<i>Ailuroonyx trachygaster</i>	Yes	No	No	AMB 8160	Silhouette Island, Seychelles	JQ945283	JQ945422	JQ945530	JQ945636	JQ945351	JX041308
G	<i>Alsophylax pipiens</i>	No	N/A	No	CAS 238805	Bulgan, Khovd, Mongolia	JQ945284	JQ945423	JQ945531	JQ945637	JQ945352	JX041309
G	<i>Blaesodactylus antongilensis</i>	Yes	No	Yes	ZSM 410/2005	Nosy Mangabe, Toamasina Prov., Madagascar	EU054229	JQ945426	JQ945534	JQ945640	EU054205	EU054253
G	<i>Bunopus tuberculatus</i>	No	N/A	No	CAS 228737	Sharjah, United Arab Emirates	JQ945287	JQ945427	JQ945535	JQ945641	JQ945355	JX041317
G	<i>Calodactylodes illingworthorum</i>	Yes	Yes	Yes	AMB7415	Serawa, Pitakumbura, Sri Lanka	JQ945288	JQ945428	JQ945536	JQ945642	JQ945356	JX041318
G	<i>Chondrodactylus angulifer</i>	No	N/A	No	MCZ R184984	Klein Aus Vista, Namibia	JQ945289	JQ945429	JQ945537	JQ945643	JQ945357	–
G	<i>Chondrodactylus angulifer</i>	No	N/A	No	AMB 4669	Richtersveld National Park, Northern Cape Prov., South Africa	–	–	–	–	–	JX041320
G	<i>Chondrodactylus fitzsimonsi</i>	Yes	No	No	CAS 193884	30 km N Swakopmund, Namibia	EU293645	EU293735	EU293690	EU293667	EU293712	JX041321
G	<i>Christinus marmoratus</i>	Yes	Yes	No	AMS 135338	Wirralie, Ladysmith, New South Wales, Australia	JQ945290	JQ945430	JQ945538	JQ945644	JQ945358	JX041322

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G	<i>Cnemaspis africana</i>	Yes	No	No	FMNH 251355	Amani, Tanga, Tanzania	–	JQ945431	JQ945539	JQ945645	–	–
G	<i>Cnemaspis africana</i>	Yes	No	No	CAS 168872	Amani, Tanga, Tanzania	JQ945291	–	–	–	JQ945359	JX041323
G	<i>Cnemaspis dickersonae</i>	Yes	No	No	MTSN 8604	Uzungwa Scarp, Tanzania	JQ945292	JQ945432	JQ945540	JQ945646	JQ945360	JX041324
G	<i>Cnemaspis kandiana</i>	No	N/A	No	AMB 7508	Masimbula, Godakawela, Sri Lanka	JQ945293	JQ945433	JQ945541	JQ945647	JQ945361	JX041325
G	<i>Cnemaspis kendalii</i>	No	N/A	No	LSHC 6562	Kepong, Selangor, Malaysia	JQ945294	JQ945434	JQ945542	–	JQ945362	JX041326
G	<i>Cnemaspis limi</i>	No	N/A	No	LSHC 6267	Pulau Tioman, Malaysia	EF534809	EF534977	EF534935	EF534892	EF534851	JX041327
G	<i>Cnemaspis podihuna</i>	No	N/A	No	AMB 7449	Mihintale, Sri Lanka	JQ945295	JQ945435	JQ945543	JQ945648	JQ945363	JX041328
G	<i>Cnemaspis uzungwe</i>	Yes	No	No	MTSN 5603	Chita, Uzungwe Scarp, Tanzania	JQ945296	JQ945436	JQ945544	JQ945649	JQ945364	JX041329
G	<i>Colopus kochi</i>	Yes	No	No	CAS 214308	59 km N Swakopmund, Namibia	JQ945297	JQ945437	JQ945545	JQ945650	JQ945365	JX041336
G	<i>Colopus wahlbergii</i>	Yes	No	No	NMZ 16974	Kalamba Station, Kazungula Dist., Zambia	JQ945298	JQ945438	JQ945546	JQ945651	JQ945366	JX041337
G	<i>Crossobamon orientalis</i>	No	N/A	No	ID 7618	vic. Sam, Rajasthan, India	JQ945299	JQ945440	JQ945547	JQ945653	JQ945368	JX041338
G	<i>Cryptactites peringueyi</i>	Yes	Yes	No	CAS 186374	Krom River Estuary, Easter Cape Prov., South Africa	JQ945300	JQ945441	JQ945548	JQ945654	JQ945369	JX041339

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G	<i>Cyrtodactylus angularis</i>	No	N/A	No	FMNH 265815	Muang Sa Kaeo, Sa Kaeo, Thailand	JQ945301	JQ945442	JQ945549	JQ945655	JQ945370	JX041340
G	<i>Cyrtodactylus ayeyarwadyensis</i>	No	N/A	No	CAS 216446	Rakhine, Myanmar	EU268287	JQ945443	JQ945550	JQ945656	EU268317	EU268348
G	<i>Cyrtodactylus irregularis</i>	No	N/A	No	FMNH 258697	Pakxong Dist., Champasak Prov., Lao PDR	JQ945302	JQ945444	JQ945551	JQ945657	JQ945371	JX041341
G	<i>Cyrtodactylus jarujini</i>	No	N/A	No	FMNH 255472	Thaphabat Dist., Bolikhamxay Prov., Lao PDR	JQ945303	JQ945445	JQ945552	JQ945658	JQ945372	JX041342
G	<i>Cyrtodactylus novaeguineae</i>	No	N/A	No	FK 11689	West Sepik, Papua New Guinea	HQ426274	HQ426447	HQ426531	HQ426354	HQ426185	JX041343
G	<i>Cyrtodactylus philippinicus</i>	No	N/A	No	FMNH 236073	Mt. Guitinguitin, Sibuyan Island, Philippines	JQ945304	JQ945446	JQ945553	JQ945659	JQ945373	JX041344
G	<i>Cyrtopodion scabrum</i>	No	N/A	No	TG 00109	Egypt	HQ426275	HQ426448	HQ426532	HQ426355	HQ426186	JX041345
G	<i>Cyrtopodion</i> sp.	No	N/A	No	FMNH 256409	Karakar Pass, Swat Dist., NW Frontier Prov., Pakistan	JQ945305	JQ945447	JQ945554	JQ945660	JQ945374	JX041346
G	<i>Dixonius siamensis</i>	No	N/A	No	LSHC 7328	Phnom Aural, Pursat Prov., Cambodia	EU054283	JQ945450	JQ945557	JQ945663	EU054267	EU054299
G	<i>Dixonius vietnamensis</i>	No	N/A	No	FMNH 263003	Keo Seima Dist., Mondolkiri Prov., Cambodia	EU054281	JQ945451	JQ945558	JQ945664	EU054265	EU054297

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G	<i>Ebenavia inunguis</i>	Yes	Yes	No	ZCMV 2099	Marojejy, Madagascar	HQ426280	HQ426453	HQ426535	HQ426360	HQ426191	JX041348
G	<i>Elasmodactylus tetensis</i>	Yes	No	No	PEM 5551	Niassa Game Reserve, Mozambique	JQ945307	JQ945452	JQ945559	JQ945665	JQ945376	JX041349
G	<i>Geckoella triedra</i>	No	N/A	No	35A	Sri Lanka	JQ945308	JQ945454	JQ945561	JQ945667	JQ945377	JX041352
G	<i>Geckolepis maculata</i>	Yes	No	Yes	FGZC 463	Montagne d'Ambre, Madagascar	EU054211	JQ945455	JQ945562	JQ945668	EU054187	EU054235
G	<i>Gehyra australis</i>	Yes	No	Yes	AMS 139934	El Questro Station, Western Australia, Australia	JN019145	JQ945456	JQ945563	JQ945669	JN019113	JN019081
G	<i>Gehyra cf. oceanica</i>	Yes	No	Yes	BPBM 23349	Parkop, Toricelli Mts., West Sepik Prov., Papua New Guinea	JQ945309	JQ945457	JQ945564	JQ945670	JN394000	JN393922
G	<i>Gehyra dubia</i>	Yes	No	Yes	AMS 152245	Daydawn, New South Wales, Australia	JN393956	JQ945458	JQ945565	JQ945671	JN393989	JN393911
G	<i>Gehyra mutilata</i>	Yes	No	Yes	JFBM 15819	unknown	–	JQ945459	JQ945566	JQ945672	–	–
G	<i>Gehyra mutilata</i>	Yes	No	Yes	AMB 6582	Penang, Malaysia	JN393962	–	–	–	JN393995	JN393917
G	<i>Gehyra nana</i>	Yes	No	Yes	AMS 140070	McGowens Beach, Kalumburu area, Western Australia, Australia	JN393963	JQ945460	JQ945567	JQ945673	JN393996	JN393918

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G	<i>Gehyra variegata</i>	Yes	No	Yes	AMS 140478	Millstream, Western Australia, Australia	JN393973	JQ945461	JQ945568	JQ945674	JN394007	JN393929
G	<i>Gekko badenii</i>	Yes	No	No	TG 00095	Vietnam	–	JQ945462	JQ945569	JQ945675	–	–
G	<i>Gekko badenii</i>	Yes	No	No	JB 13	Vietnam	JN019130	–	–	–	JN019099	JN019065
G	<i>Gekko cf. grossmanni</i>	Yes	No	No	No ID	unknown	JN019129	JQ945463	JQ945570	JQ945676	JN019098	JN019064
G	<i>Gekko chinensis</i>	Yes	No	No	LSHC 4209	Wuzhi Shan, Hainan Id., China	JN019123	JQ945464	JQ945571	JQ945677	JN019092	JN019058
G	<i>Gekko gecko</i>	Yes	No	No	No ID	unknown	EF534813	–	–	–	EF534854	EU054288
G	<i>Gekko gecko</i>	Yes	No	No	TG 00079	Indonesia Barangay Formon, Sitio Balogbob, Cueba Simbahan, Mindoro Oriental Prov., Philippines	–	EF534981	EF534939	EF534896	–	–
G	<i>Gekko mindorensis</i>	Yes	No	No	KU 303912	Philippines	JN019140	JQ945465	JQ945572	JQ945678	JN019108	JN019076
G	<i>Gekko monarchus</i>	Yes	No	No	PEM R5412	Port Elizabeth, Eastern Cape, South Africa	JN019141	JQ945466	JQ945573	JQ945679	JN019109	JN019077
G	<i>Gekko subpalmatus</i>	Yes	No	No	AMB 6567	Chengdu, Sichuan, China	JN019128	JQ945467	JQ945574	JQ945680	JN019097	JN019063
G	<i>Gekko vittatus</i>	Yes	No	No	BPBM 19780	Rossel Id., Louisiade Ids., Milne Bay Prov., Papua New Guinea	JN019134	JQ945468	JQ945575	JQ945681	JN019102	JN019069

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
G	<i>Goggia lineata</i>	Yes	Yes	No	AMB4762	Richtersveld National Park, Northern Cape Prov., South Africa	JQ945310	JQ945469	JQ945576	JQ945682	JQ945378	JX041353
G	<i>Hemidactylus angulatus</i>	Yes	No	Yes	MVZ 245438	Togo Hills, Nkwanta, Ghana	EU268306	–	HQ426540	HQ426365	EU268336	EU268367
G	<i>Hemidactylus brasiliensis</i>	Yes	No	Yes	MZUSP 92493	Parque Nacional da Serra das Confusões, Piauí, Brazil	EU268290	HQ426439	HQ426523	HQ426346	EU268320	EU268351
G	<i>Hemidactylus fasciatus</i>	Yes	No	Yes	ROM 19891	Sapo Nat'l Park, Sinoe, Liberia	JQ945311	JQ945470	JQ945577	JQ945683	JQ945379	EU268371
G	<i>Hemidactylus flaviviridis</i>	Yes	No	Yes	FMNH 245515	Punjab Province, Pakistan	EU268294	HQ426458	HQ426541	HQ426366	EU268324	EU268355
G	<i>Hemidactylus frenatus</i>	Yes	No	Yes	TG 00088	Indonesia	–	EF534982	EF534940	EF534897	–	–
G	<i>Hemidactylus frenatus</i>	Yes	No	Yes	AMB 7411	Pidenipitiya, Sri Lanka	EF534814	–	–	–	EF534855	EU268357
G	<i>Hemidactylus greeffi</i>	Yes	No	Yes	CAS 219044	Praia da Mutamba, Sao Tomé	EU268308	HQ426459	HQ426542	HQ426367	EU268338	EU268369
G	<i>Hemidactylus haitianus</i>	Yes	No	Yes	CAS 198443	nr. Santo Domingo, Dominican Republic	HM559700	–	HQ426543	HQ426368	HM559667	HM559634
G	<i>Hemidactylus imbricatus</i>	Yes	No	Yes	TG 00568	Pakistan	HM559703	HQ426506	HQ426587	HQ426416	HM559670	EU268354
G	<i>Hemidactylus longicephalus</i>	Yes	No	Yes	CAS 218939	Lagoa Azul, Sao Tomé	HQ426289	HQ426460	HQ426544	HQ426369	HQ426200	HM559637
G	<i>Hemidactylus</i>	Yes	No	Yes	JEM 1864	Wundanyi,	HQ426291	HQ426462	HQ426546	HQ426371	HQ426202	JX041368

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
	<i>mabouia</i>											
G	<i>Hemidactylus macropholis</i>	Yes	No	Yes	CAS 227520	Kenya Bari Region, Puntland State, Somalia	HQ426292	HQ426463	HQ426547	HQ426372	HQ426203	JX041369
G	<i>Hemidactylus palaichthus</i>	Yes	No	Yes	LSUMZ H-12421	Roraima, Brazil	EU268307	HQ426464	HQ426548	HQ426373	EU268337	EU268368
G	<i>Hemidactylus platyurus</i>	Yes	No	Yes	JFBM 15815	unknown	HQ426273	HQ426446	HQ426530	HQ426353	HQ426184	–
G	<i>Hemidactylus platyurus</i>	Yes	No	Yes	KU30411	Lubang, Philippines Makran District, Baluchistan Province, Pakistan	–	–	–	–	–	EU268352
G	<i>Hemidactylus robustus</i>	Yes	No	Yes	FMNH 245519	India	HM559715	HQ426466	HQ426550	HQ426375	HM559682	HM559649
G	<i>Hemidactylus triedrus</i>	Yes	No	Yes	JB 09	Gainesville, Alachua County, Florida, USA	HQ426293	HQ426467	HQ426551	HQ426376	HQ426204	–
G	<i>Hemidactylus turcicus</i>	Yes	No	Yes	TG 00567	Baton Rouge, Louisiana, USA	–	–	–	–	–	EU268360
G	<i>Hemidactylus turcicus</i>	Yes	No	Yes	LSUMZ 1981	Cameron Highlands, Pahang, Malaysia	JN393978	JQ945471	JQ945578	JQ945684	JN394012	JN393934
G	<i>Hemiphyllodactylus titiwangsaensis</i>	Yes	No	Yes	LSHC 7208	Pakxong Dist., Champasak Prov., Lao PDR	JN393979	JQ945472	JQ945579	JQ945685	JN394013	JN393935
G	<i>Hemiphyllodactylus yunnanensis</i>	Yes	No	Yes	FMNH 258695	Sturt Natl. Park, New South Wales,	EU054285	JQ945473	JQ945580	JQ945686	EU054269	EU054301

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
						Australia						
G	<i>Heteronotia planiceps</i>	No	N/A	No	AMS 140331	23.3 km NNW jct. Tunnel Creek RD. with Great Northern Hwy., Western Australia, Australia	EU054284	JQ945474	JQ945581	JQ945687	EU054268	EU054300
G	<i>Homopholis fasciatus</i>	Yes	No	Yes	TG 00191	unknown	EU054226	JQ945475	JQ945582	JQ945688	EU054202	EU054250
G	<i>Lepidodactylus lugubris</i>	Yes	No	No	AMB 4111	Kirimati, Kiribati	EF534812	EF534980	EF534938	EF534895	EF534853	JX041377
G	<i>Lepidodactylus novaeguineae</i>	Yes	No	No	BPBM 15842	Boiaboaiwaga Id., Milne Bay Prov., Papua New Guinea	JQ945312	JQ945476	JQ945583	JQ945689	JQ945380	JX041378
G	<i>Luperosaurus cumingii</i>	Yes	No	No	RMB 3546	Cumiagi, Philippines	JQ945313	JQ945478	JQ945585	JQ945691	JQ945381	JX041379
G	<i>Lygodactylus bivittis</i>	Yes	No	Yes	FG/MV 2001.A21	Andasibe, Madagascar 63.5 km W Kamanjab,	JQ945314	JQ945479	JQ945586	JQ945692	JQ945382	JX041380
G	<i>Lygodactylus bradfieldi</i>	Yes	No	Yes	AMB 7628	Kunene Region, Namibia	HQ426301	HQ426474	HQ426558	HQ426383	HQ426212	JX041381
G	<i>Lygodactylus miops</i>	Yes	No	Yes	ZSM 116/2004	Andohahela, Madagascar	HQ426299	HQ426472	HQ426556	HQ426381	HQ426210	–
G	<i>Lygodactylus mirabilis</i>	Yes	No	Yes	FG/MV 2000.B3	Madagascar	HQ426300	HQ426473	HQ426557	HQ426382	HQ426211	JX041382
G	<i>Lygodactylus tolampyae</i>	Yes	No	Yes	FG/MV 2001.C14	Ankarafantsika, Madagascar	HQ426302	HQ426475	HQ426559	HQ426384	HQ426213	JX041383

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
G	<i>Matoatoa brevipes</i>	Yes	Yes	No	FG/MV 2002.2237	Tulear area, Madagascar	EF490724	JQ945480	JQ945587	JQ945693	EF490698	EF490777
G	<i>Mediodactylus russowii</i>	No	N/A	No	AMB 8701	unknown	JQ945315	JQ945481	JQ945588	JQ945694	JQ945383	JX041384
G	<i>Mediodactylus spinicauda</i>	No	N/A	No	CAS 228709	Birjand, Khorasan Prov., Iran	JQ945316	JQ945482	JQ945589	JQ945695	JQ945384	JX041385
G	<i>Microgecko helenae</i>	No	N/A	No	JB 27	unknown	JQ945317	JQ945483	JQ945590	JQ945696	JQ945385	JX041386
G	<i>Nactus pelagicus</i>	No	N/A	No	CAS 229289	Mt. Gouémba, New Caledonia	EU054275	JQ945484	–	JQ945697	EU054259	EU054291
G	<i>Nactus vankampeni</i>	No	N/A	No	FK11384	Wewak, East Sepik Prov., Papua New Guinea	EU054279	JQ945485	JQ945591	JQ945698	EU054263	EU054295
G	<i>Narudasia festiva</i>	No	N/A	No	AMB 3243	Narudas, Namibia	EF534808	EF534976	EF534934	EF534891	EF534850	JX041387
G	<i>Pachydactylus austeni</i>	Yes	No	No	AMB 3295	Port Nolloth, Northern Cape Prov., South Africa	JQ945321	–	JQ945596	JQ945703	JQ945389	JX041390
G	<i>Pachydactylus gaiasensis</i>	Yes	No	No	AMB 7596	Gai-As, Namibia	JQ945322	JQ945490	JQ945597	JQ945704	JQ945390	JX041391
G	<i>Pachydactylus kladaroderma</i>	Yes	No	No	PEM FN1253	Molteno Pass, Western Cape Prov., South Africa	JQ945323	JQ945491	JQ945598	JQ945705	JQ945391	JX041392
G	<i>Pachydactylus punctatus</i>	Yes	No	No	MCZ R184457	Farm Celine, Limpopo Prov., South Africa	EU293646	–	–	–	EU293713	JX041393
G	<i>Pachydactylus punctatus</i>	Yes	No	No	MCZ R184458	Farm Celine, Limpopo Prov., South Africa	–	EU293736	EU293691	EU293668	–	–
G	<i>Pachydactylus rangei</i>	Yes	No	Yes	MCZ R183725	Swakop River, Namibia	JQ945324	JQ945492	JQ945599	–	JQ945392	JX041394

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
G	<i>Pachydactylus rugosus</i>	Yes	No	No	CAS 201905	Sendelingsdrif, Richtersveld National Park, Northern Cape Prov., South Africa	JQ945325	JQ945493	JQ945600	JQ945706	JQ945393	JX041395
G	<i>Pachydactylus vanzlyi</i>	Yes	No	Yes	JVV 1761	Munutum River, Namibia	JQ945326	JQ945494	JQ945601	JQ945707	JQ945394	JX041396
G	<i>Pachydactylus weberi</i>	Yes	No	No	PEM R12449	1.4 km S Dawis, Richtersveld, Northern Cape Prov., South Africa	JQ945327	JQ945495	JQ945602	JQ945708	JQ945395	JX041397
G	<i>Paragehyra gabriellae</i>	Yes	No	No	FGZC 2366	Grotte Ampasy, Madagascar	JQ945328	JQ945496	JQ945603	JQ945709	JQ945396	JX041399
G	<i>Paroedura masobe</i>	Yes	Yes	No	JFBM 15832	Madagascar	EF536145	HQ426478	HQ426560	HQ426387	EF536169	EF536193
G	<i>Paroedura picta</i>	Yes	Yes	No	FG/MV 2002.B1	Berenty, Madagascar	EF536149	EU293737	EU293692	EU293669	EF536173	EF536197
G	<i>Perochirus ateles</i>	Yes	No	Yes	DB Dmale	Dehpelhi Id., Pohnpei, Federated States of Micronesia	JN393984	JQ945497	JQ945604	JQ945710	JN393946	JN393938
G	<i>Phelsuma borbonica</i>	Yes	No	No	JB 95	Réunion	HQ426305	HQ426479	HQ426561	HQ426388	HQ426216	JX041400
G	<i>Phelsuma laticauda</i>	Yes	No	No	TG 00232	Oahu, Hawaii	–	JQ945498	JQ945605	JQ945711	–	–
G	<i>Phelsuma laticauda</i>	Yes	No	No	FGZC 2705	Antalaha Airport, Madagascar	JQ945329	–	–	–	JQ945398	JX041401

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
G	<i>Phelsuma madagascariensis</i>	Yes	No	No	FG/MV 2002.797	Manongarivo, Madagascar	EF534811	EF534979	EF534937	EF534894	AB081507	JX041402
G	<i>Phelsuma modesta</i>	Yes	No	No	ZSM 35/2004	Ambovombe, Madagascar 22 km E	HQ426307	HQ426481	HQ426563	HQ426390	HQ426218	JX041403
G	<i>Phelsuma ocellata</i>	Yes	No	No	CAS 186351	Sendelingsdrif, Richtersveld National Park, Northern Cape, South Africa	HQ426308	HQ426482	HQ426564	HQ426391	HQ426219	JX041429
G	<i>Phelsuma rosagularis</i>	Yes	No	No	JB 109	Mauritius	HQ426306	HQ426480	HQ426562	HQ426389	HQ426217	JX041404
G	<i>Pseudogecko smaragdina</i>	Yes	No	No	KU 303995	Quezon, Philippines 20 km N	JQ945332	JQ945501	JQ945608	JQ945714	JQ945401	JX041420
G	<i>Ptenopus carpi</i>	No	N/A	No	CAS 214534	Swakopmund, Namibia	JQ945333	JQ945502	JQ945609	JQ945715	JQ945402	JX041422
G	<i>Ptychozoon kuhli</i>	Yes	No	No	RMB 1134	Malaysia	JQ945334	JQ945503	JQ945610	JQ945716	JQ945403	JX041423
G	<i>Ptychozoon lionatum</i>	Yes	No	No	CAS 221168	Bago Div., Myanmar	JQ945335	JQ945504	JQ945611	JQ945717	JQ945404	JX041424
G	<i>Rhoptropus afer</i>	Yes	No	No	MCZ R183711	Rössing Mt., Namibia	JQ945336	JQ945506	JQ945613	JQ945719	JQ945405	JX041430
G	<i>Rhoptropus boultoni</i>	Yes	No	No	CAS 214713	Twyfelfontein, Namibia	EF534810	EF534978	EF534936	EF534893	EF534852	JX041431
G	<i>Rhoptropus diporus</i>	Yes	No	No	MCZ R183737	Brandberg Wes Myn, Namibia	JQ945337	–	–	–	JQ945406	JX041432
G	<i>Rhoptropus diporus</i>	Yes	No	No	MCZ R183736	Brandberg Wes Myn, Namibia Dakhlet	–	JQ945507	JQ945614	JQ945720	–	–
G	<i>Stenodactylus sthenodactylus</i>	No	N/A	No	MVZ 235804	Nouâdhibou Region, Mauritania	JQ945339	–	–	–	JQ945408	JX041441

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
G	<i>Stenodactylus sthenodactylus</i>	No	N/A	No	TG 00181	Egypt	–	JQ945510	JQ945617	JQ945723	–	–
G	<i>Tenuidactylus caspius</i>	No	N/A	No	CAS 228602	Touran Protected Area, Semnan Prov., Iran	JQ945340	JQ945514	JQ945620	JQ945727	JQ945409	JX041448
G	<i>Tenuidactylus longipes</i>	No	N/A	No	CAS 228830	Tabas, Yazd Prov., Iran	JQ945341	JQ945515	JQ945621	JQ945728	JQ945410	JX041449
G	<i>Tropicolotes tripolitanus</i>	No	N/A	No	FMNH 262276	Niger	–	JQ945517	JQ945623	JQ945730	–	–
G	<i>Tropicolotes tripolitanus</i>	No	N/A	No	MVZ 238922	Tafokin, Agadez, Niger	JQ945343	–	–	–	JQ945412	JX041459
G	<i>Urocotyledon inexpectatus</i>	Yes	Yes	No	MCZF 38723	Silhouette Island, Seychelles	JQ945344	JQ945518	JQ945624	JQ945731	JQ945413	JX041461
G	<i>Uroplatus giganteus</i>	Yes	Yes	Yes	ZSM 55/2005	Marojejy, Madagascar	EF490737	JQ945519	JQ945625	JQ945732	JQ945414	EF490790
G	<i>Uroplatus guentheri</i>	Yes	Yes	Yes	ZSM 476/2001	Ankarafantsika, Madagascar	EF490725	JQ945520	JQ945626	JQ945733	EF490699	EF490778
G	<i>Uroplatus henkeli</i>	Yes	Yes	Yes	FG/MV 2000.C1	Nosy Be, Madagascar	EF490743	–	–	–	EF490716	EF490796
G	<i>Uroplatus henkeli</i>	Yes	Yes	Yes	JFBM 15833	Madagascar	–	HQ426510	HQ426591	HQ426420	–	–
G	<i>Uroplatus phantasticus</i>	Yes	Yes	Yes	FG/MV 2002.640	Ranomafana, Madagascar	EF490746	HQ426511	HQ426592	HQ426421	EF490719	EF490799
Ph	<i>Asaccus platyrhynchus</i>	Yes	Yes	No	CAS 227605	Wilayat Nazwa, Oman	EU293625	EU293715	EU293670	EU293647	EU293693	JX041313
Ph	<i>Asaccus sp.</i>	Yes	Yes	No	JB 15	Mirbat, Oman	EU293626	EU293716	EU293671	EU293648	EU293694	JX041314
Ph	<i>Garthia gaudichaudii</i>	No	N/A	No	SC 1	Chile	HQ426281	HQ426454	HQ426536	HQ426361	HQ426192	JX041351
Ph	<i>Gymnodactylus amarali</i>	No	N/A	No	CHUNB 38646	Cocalzinho, Goiás, Brazil	HQ426288	HQ426457	HQ426539	HQ426364	HQ426199	JX041366
Ph	<i>Haemodracon riebeckii</i>	Yes	Yes	No	JB 11	Socotra Island, Yemen	EU293627	EU293717	EU293672	EU293649	EU293695	JX041367
Ph	<i>Homonota darwinii</i>	No	N/A	No	LJAMM	Puerto	EU293628	EU293718	EU293673	EU293650	EU293696	JX041373

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
					4601	Deseado, Santa Cruz, Argentina						
Ph	<i>Homonota fasciata</i>	No	N/A	No	TG 00085	Paraguay	EU293629	EU293719	EU293674	EU293651	EU293697	JX041374
Ph	<i>Phyllodactylus bordai</i>	Yes	Yes	No	AMCC 118242	Puebla, Mexico	HQ426309	HQ426483	HQ426565	HQ426392	HQ426220	JX041405
Ph	<i>Phyllodactylus bugastrolepis</i>	Yes	Yes	No	ROM 38489	Isla Santa Catalina, Baja California Sur, Mexico	EU293631	EU293721	EU293676	EU293653	EU293699	JX041406
Ph	<i>Phyllodactylus delcampoi</i>	Yes	Yes	No	JAC 21928	Guerrero, Mexico	HQ426310	HQ426484	HQ426566	HQ426393	HQ426221	JX041407
Ph	<i>Phyllodactylus homolepidurus</i>	Yes	Yes	No	MVZ 236267	Hermosillo, Sonora, Mexico	JQ945330	JQ945499	JQ945606	JQ945712	JQ945399	JX041408
Ph	<i>Phyllodactylus nocticolus</i>	Yes	Yes	No	ROM 39005	La Paz, Baja California Sur, Mexico	HQ426311	HQ426485	HQ426567	HQ426394	HQ426222	JX041409
Ph	<i>Phyllodactylus reissii</i>	Yes	Yes	No	JB 39	Peru	EU293632	EU293722	EU293677	EU293654	EU293700	JX041410
Ph	<i>Phyllodactylus tuberculosus</i>	Yes	Yes	No	KU 289758	PN El Imposible, Ahuachapán, El Salvador	EU293630	EU293720	EU293675	EU293652	EU293698	JX041411
Ph	<i>Phyllodactylus unctus</i>	Yes	Yes	No	ROM 39002	La Paz, Baja California Sur, Mexico	HQ426312	HQ426486	HQ426568	HQ426395	HQ426223	JX041412
Ph	<i>Phyllodactylus wirshingi</i>	Yes	Yes	No	TG 00722	Guanica, Puerto Rico	JQ945331	JQ945500	JQ945607	JQ945713	JQ945400	JX041413
Ph	<i>Phyllodactylus xanti</i>	Yes	Yes	No	ROM 38490	Baja California Sur, Mexico	EF534807	EF534975	EF534933	EF534890	EF534849	JX041414
Ph	<i>Phyllopezus lutzae</i>	Yes	No	Yes	CHUNB 50462	Mata de São João, Bahia, Brazil	HQ426265	HQ426438	HQ426522	HQ426345	HQ426177	JX041415

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
Ph	<i>Phyllopezus maranjonensis</i>	Yes	No	Yes	ZFMK 84995	Balsas, Amazonas, Peru	EU293633	EU293723	EU293678	EU293655	EU293701	JX041416
Ph	<i>Phyllopezus pollicaris pollicaris</i>	Yes	No	Yes	MZUSP 92491	Parque Nacional da Serra das Confusões, Piauí, Brazil	EU293635	EU293725	EU293680	EU293657	EU293702	JX041417
Ph	<i>Ptyodactylus guttatus</i>	Yes	Yes	No	TG 00072	Egypt	EU293636	EU293726	EU293681	EU293658	EU293703	JX041425
Ph	<i>Ptyodactylus</i> cf. <i>hasselquistii</i>	Yes	Yes	No	YPM 13609	unknown	EU293637	EU293727	EU293682	EU293659	EU293704	JX041426
Ph	<i>Tarentola americana</i>	Yes	No	No	MVZ 241223	13 km E of Pilon, Granma Province, Cuba	HQ426332	HQ426503	HQ426584	HQ426413	HQ426243	JX041442
Ph	<i>Tarentola chazaliae</i>	Yes	No	No	TG 00130	Morocco	EU293638	EU293728	EU293683	EU293660	EU293705	JX041443
Ph	<i>Tarentola delalandii</i>	Yes	No	No	JB 43	Canary Islands	EU293639	EU293729	EU293684	EU293661	EU293706	JX041444
Ph	<i>Tarentola deserti</i>	Yes	No	No	JB 44	unknown	HQ426333	HQ426504	HQ426585	HQ426414	HQ426244	JX041445
Ph	<i>Tarentola fascicularis</i>	Yes	No	No	JB 29	unknown	HQ426334	HQ426505	HQ426586	HQ426415	HQ426245	JX041446
Ph	<i>Tarentola mauritanica</i>	Yes	No	No	TG 00129	Egypt	EU293641	EU293731	EU293686	EU293663	EU293708	JX041447
Ph	<i>Thecadactylus rapicauda</i>	Yes	No	Yes	USNM 561446	St. Croix, U.S. Virgin Islands	EU293643	EU293733	EU293688	EU293665	EU293710	JX041456
Ph	<i>Thecadactylus rapicauda</i>	Yes	No	Yes	ENS 7108	Izabal, Guatemala	EU293642	EU293732	EU293687	EU293664	EU293709	JX041455
Ph	<i>Thecadactylus solimoensis</i>	Yes	No	Yes	KU 214929	Cuzco Amazonico, Madre de Dios, Peru	EU293644	EU293734	EU293689	EU293666	EU293711	JX041457
Ph	<i>Thecadactylus</i> sp.	Yes	No	Yes	JB 25	Union Id., St. Vincent and Grenadines	JQ945342	JQ945516	JQ945622	JQ945729	JQ945411	JX041458

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
Py	<i>Aprasia parapulchella</i>	No	N/A	No	MV D66569	Bendigo Whipstick, Victoria, Australia	HQ426260	HQ426433	AY134539	HQ426339	HQ426172	GU459941
Py	<i>Delma butleri</i>	No	N/A	No	SAM R36144	Coonbah, New South Wales, Australia	HQ426276	HQ426449	AY134548	HQ426356	HQ426187	AY134584
Py	<i>Delma tincta</i>	No	N/A	No	AMS 151607	Sturt Natl. Pk., NSW, Australia	HQ426277	HQ426450	AY172926	HQ426357	HQ426188	JX041347
Py	<i>Lialis burtonis</i>	No	N/A	No	TG 00078	Provinsi Papua, Indonesia	EF534782	EF534948	EF534906	EF534863	EF534822	JX024354
Py	<i>Ophidiocephalus taeniatus</i>	No	N/A	No	SAM R44653	Todmorden Station, South Australia, Australia	HQ426303	HQ426476	AY134565	HQ426385	HQ426214	AY134601
Py	<i>Paradelma orientalis</i>	No	N/A	No	QM J56089	20 km N Capella, Queensland, Australia	HQ426304	HQ426477	AY134569	HQ426386	HQ426215	AY134605
Py	<i>Pletholax gracilis</i>	No	N/A	No	WBJ 2483	Lesueur National Park, Western Australia, Australia	HQ426315	HQ426489	AY134566	HQ426398	HQ426227	AY134602
Py	<i>Pygopus lepidopodus</i>	No	N/A	No	WBJ 1206	Lesueur National Park, Western Australia, Australia	HQ426319	HQ426493	AY134567	HQ426402	HQ426231	AY134603
Py	<i>Pygopus nigriceps</i>	No	N/A	No	MVZ 197233	81 km S Alice Springs, Northern Territory, Australia	EF534783	EF534949	EF534907	EF534864	EF534823	JX024355

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
S	<i>Aristelliger georgeensis</i>	Yes	No	No	JB 101	unknown	HQ426261	HQ426434	HQ426518	HQ426340	HQ426173	JX041310
S	<i>Aristelliger lar</i>	Yes	No	No	JB 01	Dominican Republic	EF534805	EF534973	EF534931	EF534888	EF534847	JX041311
S	<i>Aristelliger praesignis</i>	Yes	No	No	USNM 337563	Kingston, St. Andrew Parish, Jamaica	HQ426262	HQ426435	HQ426519	HQ426342	HQ426174	JX041312
S	<i>Chatogekko amazonicus</i>	Yes	Yes	No	LSUMZ H-16400	Manaus, Amazonas, Brazil	HQ426268	HQ426441	HQ426525	HQ426348	HQ426179	JX041319
S	<i>Coleodactylus brachystoma</i>	Yes	Yes	No	MZUSP 92569	Piauí, Brazil	EF534792	EF534959	EF534917	EF534874	EF534833	JX041330
S	<i>Coleodactylus cf. brachystoma</i>	Yes	Yes	No	CHUNB 43901	São Domingos, Goiás, Brazil	HQ426270	HQ426443	HQ426527	HQ426350	HQ426181	JX041331
S	<i>Coleodactylus septentrionalis</i>	Yes	Yes	No	LSUMZ H-12351	Roraima, Brazil	EF534791	EF534958	EF534916	EF534873	EF534832	JX041332
S	<i>Euleptes europaea</i>	Yes	Yes	No	No ID	Liguria, Italy	EF534806	EF534974	EF534932	EF534889	EF534848	JN393941
S	<i>Gonatodes albogularis</i>	No	N/A	No	MVZ 204073	Limon, Costa Rica	EF534797	–	–	–	EF534839	JX041354
S	<i>Gonatodes albogularis</i>	No	N/A	No	KU 289808	San Salvador, El Salvador	–	EF534965	EF534923	EF534880	–	–
S	<i>Gonatodes alexandermendesi</i>	No	N/A	No	BPN 1303	Imbaimadai, Guyana	EF534798	EF534966	EF534924	EF534881	EF534840	JX041355
S	<i>Gonatodes annularis</i>	No	N/A	No	ROM 22961	Guyana	–	EF534961	EF534919	EF534876	–	–
S	<i>Gonatodes annularis</i>	No	N/A	No	No ID	French Guiana	EF534794	–	–	–	EF534835	JX041356
S	<i>Gonatodes caudiscutatus</i>	No	N/A	No	KU 218359	Limon, Ecuador	EF534795	EF534962	EF534920	EF534877	EF534836	JX041357
S	<i>Gonatodes ceciliae</i>	No	N/A	No	TG 00039	Trinidad	–	EF564114	EF564088	EF564062	HQ426193	JX041358
S	<i>Gonatodes concinnatus</i>	No	N/A	No	LSUMZ H-12688	Sucumbios, Ecuador	HQ426282	EF564096	EF564070	EF564044	HQ426194	JX041359
S	<i>Gonatodes daudini</i>	No	N/A	No	JB 38	Union Id., St. Vincent and Grenadines	EF534793	EF534960	EF534918	EF534875	EF534834	JX041360
S	<i>Gonatodes humeralis</i>	No	N/A	No	MF 19492	Ecuador	EF534796	EF534964	EF534922	EF534879	EF534838	JX041361

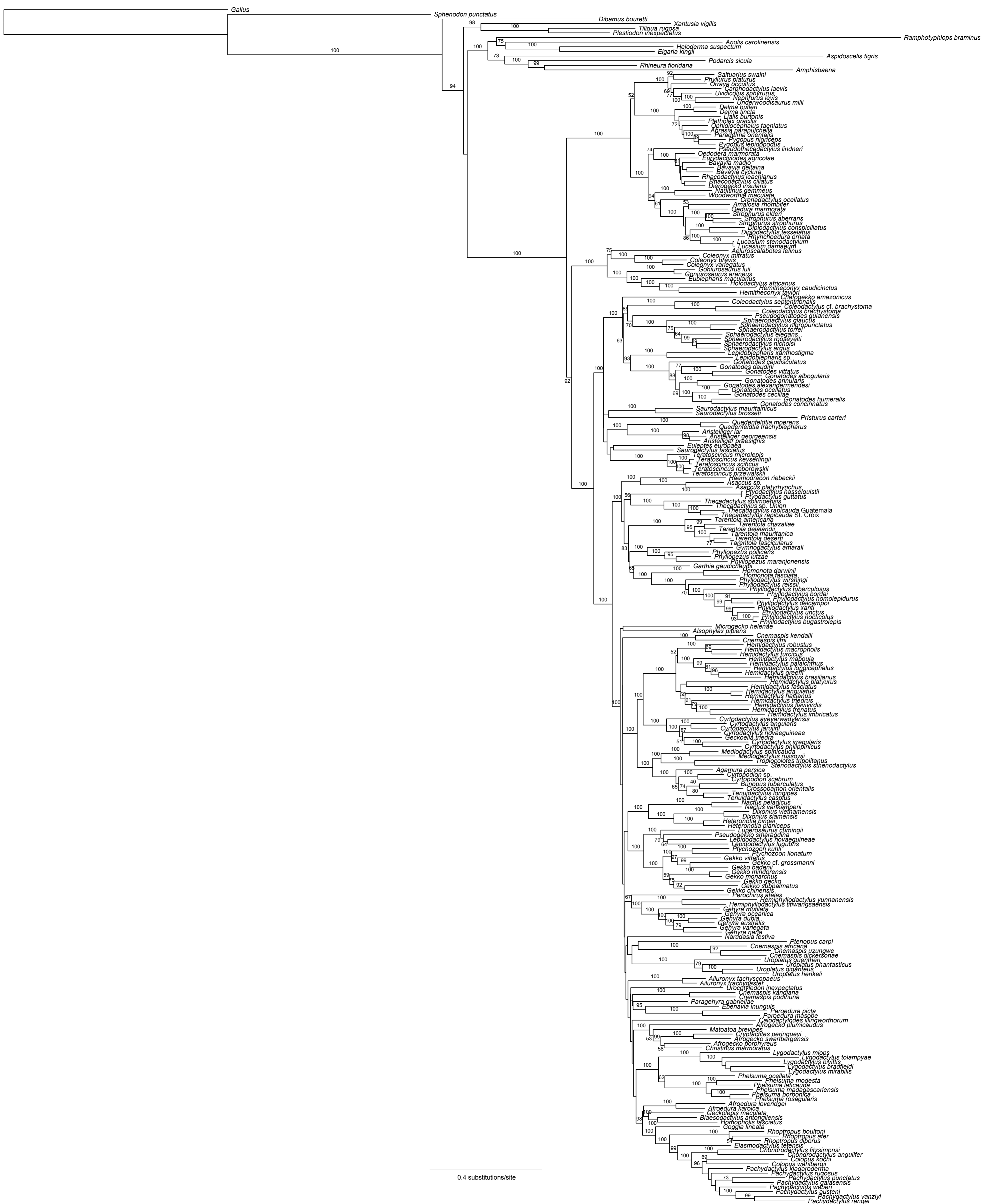
Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
S	<i>Gonatodes ocellatus</i>	No	N/A	No	TG 00038	Tobago	HQ426284	EF564098	EF564072	EF564046	HQ426196	JX041362
S	<i>Gonatodes vittatus</i>	No	N/A	No	TG 00040	Trinidad	HQ426285	EF564112	EF564086	EF564060	–	JX041363
S	<i>Lepidoblepharis</i> sp.	No	N/A	No	KU 218367	Manabi, Ecuador	EF534789	EF534956	EF534914	EF534871	EF534830	JX041375
S	<i>Lepidoblepharis xanthostigma</i>	No	N/A	No	MVZ 171438	Limon, Costa Rica	EF534790	EF534957	EF534915	EF534872	EF534831	JX041376
S	<i>Pristurus carteri</i>	No	N/A	No	TG 00083	Yemen	EF534803	EF534971	EF534929	EF534886	EF534845	JX041419
S	<i>Pseudogonatodes guianensis</i>	No	N/A	No	KU 222142	Loreto, Peru	EF534784	EF534950	EF534908	EF534865	EF534824	JX041421
S	<i>Quedenfeldtia moerens</i>	No	N/A	No	JB 77	Morocco	HQ426320	HQ426494	HQ426574	HQ426403	HQ426232	JX041427
S	<i>Quedenfeldtia trachyblepharus</i>	No	N/A	No	MVZ 178121	Oukaimeden, Morocco	EF534804	EF534972	EF534930	EF534887	EF534846	JX041428
S	<i>Saurodactylus brosseti</i>	No	N/A	No	TG 00082	Morocco	EF534802	EF534970	EF534928	EF534885	EF534844	JX041433
S	<i>Saurodactylus fasciatus</i>	No	N/A	No	DJH M616	Zumi, Morocco	HQ426322	HQ426495	HQ426576	HQ426405	HQ426234	JX041434
S	<i>Saurodactylus mauritanicus</i>	No	N/A	No	DJH Sm61	NW of Ain Benimather, Morocco	HQ426323	HQ426496	HQ426577	HQ426406	HQ426235	JX041435
S	<i>Sphaerodactylus argus</i>	Yes	Yes	No	TG 00125	Key West, Florida, USA	HQ426324	HQ426497	HQ426578	HQ426407	HQ426236	JX041436
S	<i>Sphaerodactylus elegans</i>	Yes	Yes	No	YPM 14795	Monroe County, Florida, USA	EF534787	EF534954	EF534912	EF534869	EF534828	JN393942
S	<i>Sphaerodactylus glaucus</i>	Yes	Yes	No	JAC 24229	Oaxaca, Mexico	HQ426325	HQ426498	HQ426579	HQ426408	HQ426237	JX041437
S	<i>Sphaerodactylus nicholsi</i>	Yes	Yes	No	TG 00211	Bahia de la Ballena, Puerto Rico	HQ426328	HQ426501	HQ426582	HQ426411	HQ426240	JX041438
S	<i>Sphaerodactylus nigropunctatus</i>	Yes	Yes	No	FLMNH 144010	Long Island, Bahamas	HQ426329	EF534953	EF534911	EF534868	EF534827	JX041439
S	<i>Sphaerodactylus roosevelti</i>	Yes	Yes	No	CAS 198428	Bahia de la Ballena, Puerto Rico	EF534785	EF534951	EF534909	EF534866	EF534825	JN393943

Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
S	<i>Sphaerodactylus torrei</i>	Yes	Yes	No	JB 34	Cuba	EF534788	EF534955	EF534913	EF534870	EF534829	JX041440
S	<i>Teratoscincus keyserlingii</i>	No	N/A	No	CAS 228808	Yazd Province, Iran	EF534801	HQ426508	HQ426589	HQ426418	EF534843	JX041450
S	<i>Teratoscincus microlepis</i>	No	N/A	No	TG 00074	Pakistan	EF534800	EF534968	EF534926	EF534883	EF534842	JX041451
S	<i>Teratoscincus przewalskii</i>	No	N/A	No	JFBM 15828	China	HQ426335	HQ426507	HQ426588	HQ426417	HQ426246	JX041452
S	<i>Teratoscincus roborowskii</i>	No	N/A	No	TG 00070	China	EF534799	EF534967	EF534925	EF534882	EF534841	JX041453
S	<i>Teratoscincus scincus</i>	No	N/A	No	JFBM 14252	Turkmenistan	HQ426336	EF534969	EF534927	EF534884	HQ426247	JX041454
o	<i>Amphisbaena alba</i>	No	N/A	No	CHUNB 38770	Distrito Federal, Brasil	AY662619	DQ119633	AY444016	HQ426422	HQ426249	AY662541
o	<i>Anolis carolinensis</i>	Yes	N/A	No	JBL SC1	South Carolina, USA	ENSACAT0000005087	ENSACAT0000005084	ENSACAG00000017993	ENSACAT000004095	ENSACAT00000001314	-
0	<i>Anolis carolinensis</i>	Yes	N/A	No	JBL 982	Louisiana, USA	-	-	-	-	-	AF294279
o	<i>Aspidoscelis tigris</i>	No	N/A	No	TG 00069	Maricopa County, Arizona, USA	AY662620	HQ426512	AF039481	HQ426423	HQ426250	U71332
o	<i>Dibamus bouretti</i>	No	N/A	No	ROM 36056	Quang Thanh, Cao Bang, Vietnam	AY662645	HQ426513	AY662574	HQ426424	HQ426251	AY662562
o	<i>Elgaria kingii</i>	No	N/A	No	TG 00065	Navajo County, Arizona, USA	AY662603	HQ426514	AF039479	HQ426425	HQ426252	AF085618
o	<i>Gallus gallus</i>	No	N/A	No	-	-	NM001031188	AY443150	AY056925	NM001031191	XM426634	X52392
o	<i>Heloderma suspectum</i>	No	N/A	No	TG 00068	Arizona, USA	AY662606	DQ119635	AY662566	HQ426427	HQ426254	AB167711
o	<i>Plestiodon inexpectatus</i>	No	N/A	No	TG 00792	Florida, USA	AY662632	DQ119628	AY217888	HQ426426	HQ426253	AY607297
o	<i>Podarcis sicula</i>	No	N/A	No	TG 00124	Topeka, Kansas, USA	EF632239	DQ119630	EF679329	HQ426428	HQ426255	NC011609

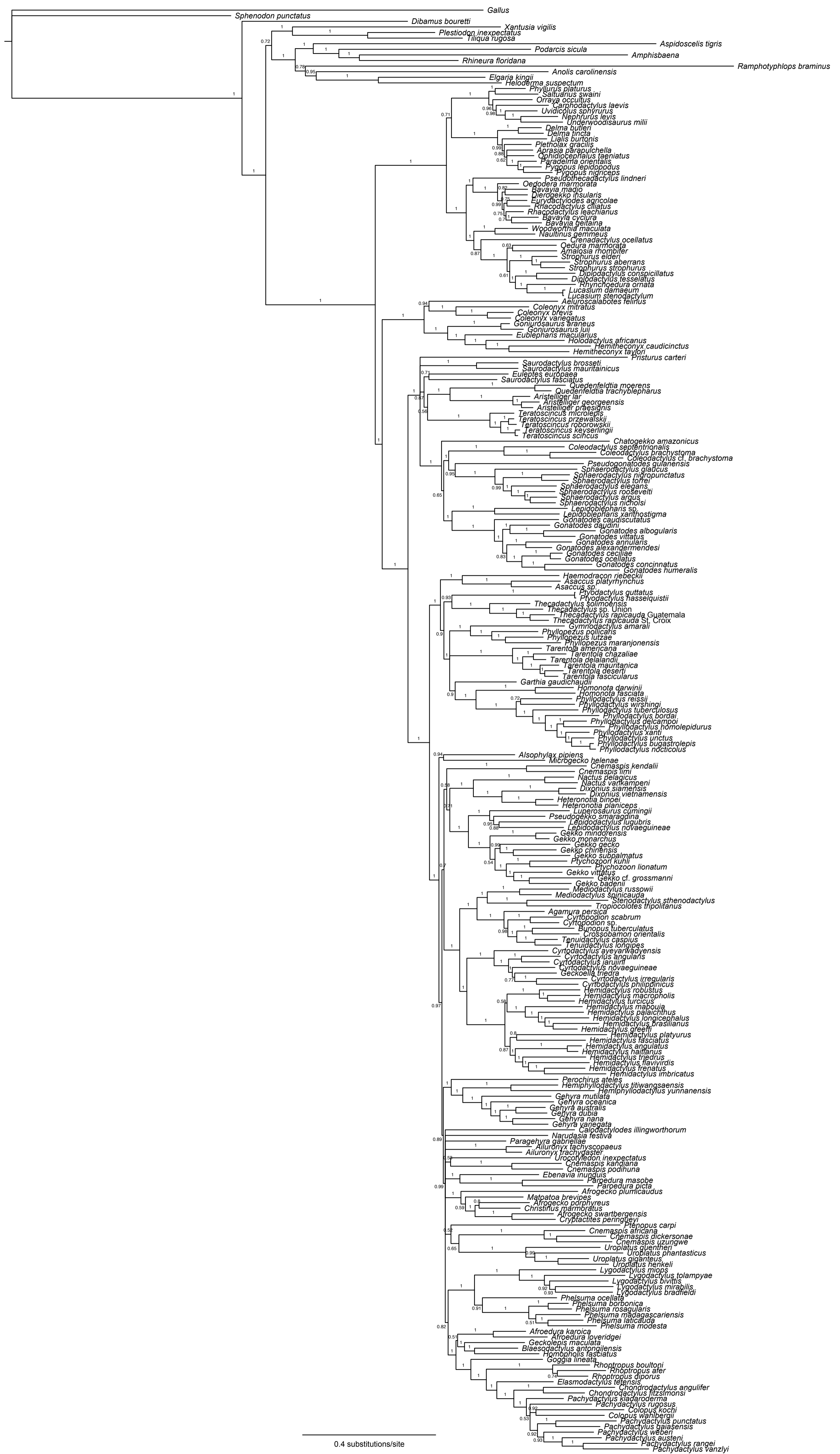
Family	Species	Toepads present	Leaf-toed morphology	Para-phalanges	ID	Locality	RAG1	RAG2	C-MOS	ACM4	PDC	ND2 + tRNAs
o	<i>Ramphotyphlops braminus</i>	No	N/A	No	No ID	Minneapolis, Minnesota, USA	AY662612	HQ426515	AF544717	HQ426429	HQ426256	AY662539
o	<i>Rhineura floridana</i>	No	N/A	No	FLMNH 141814	Alachua County, Florida, USA	AY662618	DQ119631	AY487347	EF534899	EU29371	AY605473
o	<i>Sphenodon punctatus</i>	No	N/A	No	No ID	New Zealand	AY662576	HQ426516	AF039483	HQ426430	HQ426257	AF534390
o	<i>Tiliqua rugosa</i>	No	N/A	No	JFBM 13685	New South Wales, Australia	EF534815	EF534983	EF534941	EF534898	EF534856	JX041462
o	<i>Xantusia vigilis</i>	No	N/A	No	TG 00121	Los Angeles County, California, USA	AY662642	DQ119626	AF148703	HQ426431	HQ426258	U71328

Table S2. Summary of DNA sequence partitions. Estimated models of sequence evolution, total number of characters, number of variable sites and number of parsimony-informative sites for each data partition used in the phylogenetic analyses. The number of variable sites and parsimony-informative sites for just the Gekkota, excluding non-gekkotan outgroups, are also shown.

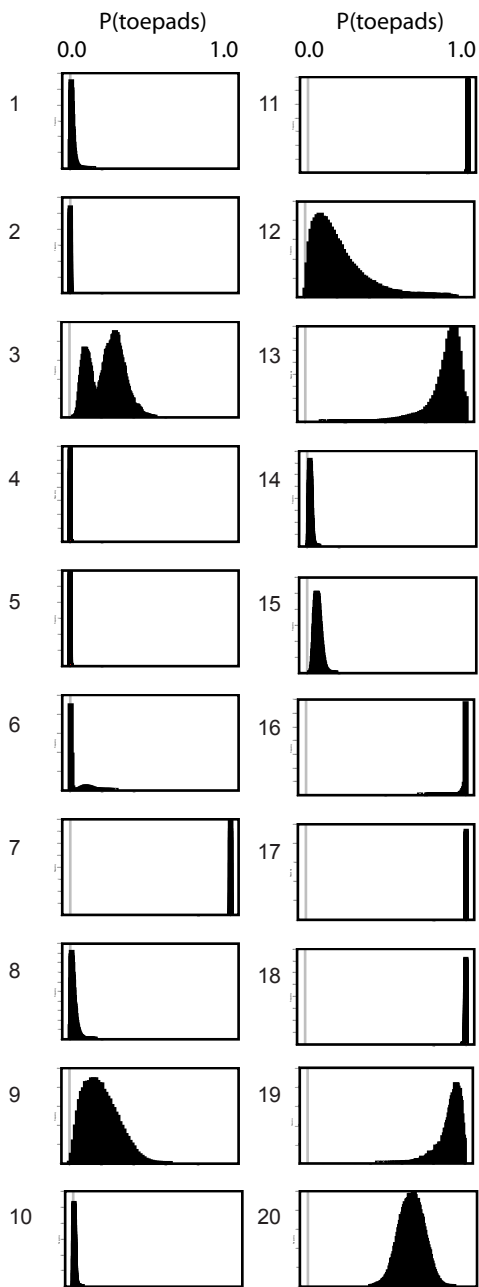
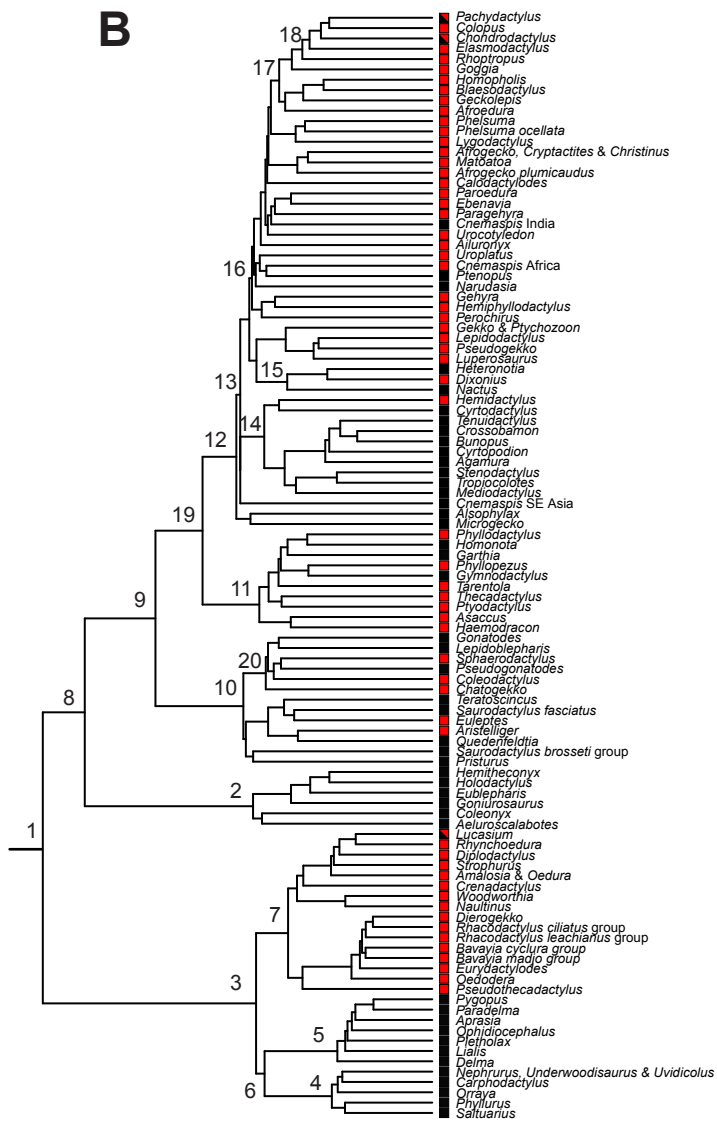
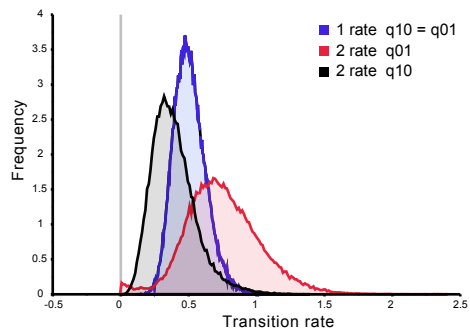
Partition	Model	Number of characters	Number of variable characters	Number of parsimony informative characters	Number of variable characters (Gekkota only)	Number of parsimony informative characters (Gekkota only)
nDNA codon 1	GTR+G	898	616	503	567	451
nDNA codon 2	GTR+I+G	897	533	417	478	360
nDNA codon 3	GTR+I+G	897	871	855	861	834
ND2 codon 1	GTR+I+G	334	310	289	308	287
ND2 codon 2	GTR+G	334	301	265	298	257
ND2 codon 3	GTR+I+G	334	334	334	334	334
tRNAs	GTR+I+G	412	385	351	382	346



0.4 substitutions/site



0.4 substitutions/site

A**B****C**

Trace over Trees



Character: adhesive toe pads
 Parsimony reconstruction (Unordered) [Steps: 20]

0 (pads absent)
 1 (pads present)

