

Supplementary material:

Table S1: Table of gekkonid species found in the Southern African countries, and the genetic sequences obtained from Genbank used in the phylogenetic tree production. All gecko species found in South Africa are listed in this table, and those species that did not have genetic information for the three gene regions are indicated (“no seq” or “NS”).

Species	Common names	IndivID	ND2	RAG1	PDC
<i>Afroedura amatolica</i>	Amatola Flat Gecko	PEM 1190	KM073622	KM073464	KM073576
<i>Afroedura broadleyi</i>	Broadley's Flat Gecko	LMH 92	KM073627	KM073467	KM073603
<i>Afroedura granitica</i>	Lillie Flat Gecko	MCZR 184411	KM073630	KM073471	KM073580
<i>Afroedura haackei</i>	Haacke's Flat Gecko	MBUR 00109	KM073632	KM073473	KM073582
<i>Afroedura halli</i>	Hall's Flat Gecko	MBUR 00429	KM073634	KM073475	KM073583
<i>Afroedura hawequensis</i>	Hawequa Flat Gecko	MH 0221	KM073644	KM073483	KM073585
<i>Afroedura karroica</i>	Karoo Flat Gecko	PEM-ZAF:1112	JX041302	JQ945277	JQ945345
<i>Afroedura langi</i>	Lang's Flat Gecko	AMB8199	EU054231	EU054207	EU054183
<i>Afroedura leoloensis</i>	Sekhukhuneland Flat Gecko	(no seq)			
<i>Afroedura major</i>	Swazi Flat Gecko	RCBS 2130	KM073647	NS	KM073590
<i>Afroedura maripi</i>	Mariepskop Flat Gecko	MBUR 01525	KM073648	KM073488	KM073591
<i>Afroedura marleyi</i>	Marley's Flat Gecko	MBUR 01187	KM073651	KM073491	KM073593
<i>Afroedura multiporis</i>	Woodbush Flat Gecko	PEM R16805	EU054232	EU054208	EU054184
<i>Afroedura namaquensis</i>	Namaqua Flat Gecko	(no seq)			
<i>Afroedura nivaria</i>	Drakensberg Flat Gecko	TM 83237	KM073659	KM073497	KM073598
<i>Afroedura pienaari</i>	Pienaar's Flat Gecko	MCZR 184480	KM073665	KM073503	KM073599
<i>Afroedura pondolia</i>	Pondo Flat Gecko	JM 1036	KM073668	KM073506	KM073600
<i>Afroedura pongola</i>	Pongola Flat Gecko	PEMR 17585	KM073669	KM073507	KM073601
<i>Afroedura rondavelica</i>	Blyde River Flat Gecko	(no seq)			
<i>Afroedura rupestris</i>	Abel Erasmus Flat Gecko	(no seq)			
<i>Afroedura tembulica</i>	Tembu Flat Gecko	PEMR 16926	KM073671	KM073509	KM073606
<i>Afroedura transvaalica</i>	Zimbabwe Flat Gecko	NMZB 17703	KM073683	KM073516	KM073607
<i>Afroedura waterbergensis</i>	Waterberg Flat Gecko	MBUR 01548	KM073684	KM073520	KM073609
<i>Afrogecko porphyreus</i>	Marbled Leaf-toed Gecko	CAS 206995	EF490776	EF490723	EF490697
<i>Chondrodactylus angulifer</i>	Giant Ground Gecko	MCZ:R-184985	KY224209	KY224307	KY224257
<i>Chondrodactylus bibronii</i>	Bibron's Gecko	CAS:201841	JN543886	JN543930	KY224258
<i>Chondrodactylus laevigatus</i>	Fischer's Gecko	MCZ R-184819	KY224211	KY224310	KY224260
<i>Chondrodactylus turneri</i>	Turner's Gecko	AMB 8187	KM073688	KM073525	KM073612
<i>Cryptactites peringueyi</i>	Coastal Marsh Gecko	CAS:HERP:186374	JX041339	JQ945300	JQ945369
<i>Goggia braacki</i>	Braack's Pygmy Gecko	AMB 4265	KM073689	KM073528	KM073614
<i>Goggia essexi</i>	Essex's Pygmy Gecko	LSUMZ:H1655	MF154676	MF154799	MF154743

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<i>Goggia gemmula</i>	Richtersveld Pygmy Gecko	AMB 5006	MF154689	MF154812	MF154753
<i>Goggia hewitti</i>	Hewitt's Pygmy Gecko	JB 58	MF154696	MF154819	MF154758
<i>Goggia hexapora</i>	Cederberg Pygmy Gecko	MH1410	MF154707	MF154830	MF154768
<i>Goggia incognita</i>	Southern Striped Pygmy Gecko	AMB 6805	MF154710	MF154833	MF154771
<i>Goggia lineata</i>	Northern Striped Pygmy Gecko	AMB4762	JX041353	JQ945310	JQ945378
<i>Goggia matzikamaensis</i>	Kliprand Pygmy Gecko	(no seq)			
<i>Goggia microlepidota</i>	Small-scaled Pygmy Gecko	JB 52	MF154734	MF154857	MF154790
<i>Goggia rupicola</i>	Namaqua Pygmy Gecko	MH 1404	MF154739	MF154862	MF154794
<i>Hemidactylus mabouia</i>	Common Tropical House Gecko	CAS 263375	MN843818	MN853055	MN843918
<i>Homopholis arnoldi</i>	Arnold's Velvet Gecko	MCZR190441	KF982287	KF982297	KF982292
<i>Homopholis mulleri</i>	Muller's Velvet Gecko	MCZF38772	EU054169	EU054217	EU054193
<i>Homopholis wahlbergii</i>	Wahlberg's Velvet Gecko	AMB8123	EU054248	KM073532	EU054200
<i>Lygodactylus bradfieldi</i>	Bradfield's Dwarf Gecko	AMB7628	JX041381	HQ426301	HQ426212
<i>Lygodactylus capensis</i>	Common Dwarf Gecko	MCZR-192363	KM034122	KM034173	NS
<i>Lygodactylus graniticulus</i>	Granite Dwarf Gecko	MCZR-192327	KM034125	KM034176	NS
<i>Lygodactylus incognitus</i>	Cryptic Dwarf Gecko	CAS234211	KM034165	KM034216	MZ772244
<i>Lygodactylus methueni</i>	Methuen's Dwarf Gecko	MBUR 01692	KM034138	KM034189	MZ772251
<i>Lygodactylus montiscaeruli</i>	Makgabeng Dwarf Gecko	MBUR 00357	KM034145	KM034196	MZ772253
<i>Lygodactylus nigropunctatus</i>	Black-spotted Dwarf Gecko	MCZR-184440	KM034151	KM034202	MZ772254
<i>Lygodactylus ocellatus</i>	Spotted Dwarf Gecko	PEMR 16421	KM034153	KM034204	MZ772255
<i>Lygodactylus soutpansbergensis</i>	Soutpansberg Dwarf Gecko	MCZR 192365	MT874649	KM034192	MZ772260
<i>Lygodactylus stevensoni</i>	Stevenson's Dwarf Gecko	AMB 8192 / MCZR- 192298 / AMB 8192	MT874609	KM034174	MZ772265
<i>Lygodactylus waterbergensis</i>	Waterberg Dwarf Gecko	CAS 234227	KM034166	KM034217	MZ772268
<i>Pachydactylus affinis</i>	Transvaal Gecko	PEM R-17545	KY224216	DQ275433	KY224265
<i>Pachydactylus amoenus</i>	Kamaggas Gecko	JB 117	JN569138	JN569169	NS
<i>Pachydactylus atorquatus</i>	Augrabies Gecko	MCZ R-184811	KY224218	KY224317	KY224266
<i>Pachydactylus austeni</i>	Austen's Gecko	AMB3295	JX041390	JQ945321	JQ945389
<i>Pachydactylus barnardi</i>	Barnard's Rough Gecko	MCZ R-184749	KY224219	KY224318	KY224267
<i>Pachydactylus capensis</i>	Cape Gecko	MCZ R-184499	HQ165962	HQ165992	HQ165977
<i>Pachydactylus carinatus</i>	Richtersveld Gecko	LSUMZ 57293	KY224221	KY224319	KY224272
<i>Pachydactylus formosus</i>	Southern Rough Gecko	CAS 206715	KY224222	KY224320	KY224273

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<i>Pachydactylus geitje</i>	Ocellated Gecko	(no seq)			
<i>Pachydactylus haackei</i>	Haacke's Gecko	CAS 186341	KY224225	KY224323	KY224277
<i>Pachydactylus kladaroderma</i>	Thin-skinned Gecko	PEM<ZAF>:1253	KY224251	JQ945323	JQ945391
<i>Pachydactylus labialis</i>	Western Cape Gecko	MCZ R-184758	KY224227	KY224325	KY224279
<i>Pachydactylus latirostris</i>	Quartz Gecko	PEM R16720	JN569141	JN569173	KY224280
<i>Pachydactylus macrolepis</i>	Large-scales Banded Gecko	PEM R17668	JN569139	JN569170	KY224281
<i>Pachydactylus maculatus</i>	Spotted Gecko	CAS 186380	KY224228	KY224326	KY224282
<i>Pachydactylus mariquensis</i>	Marico Gecko	MB 21009	JN569157	JN569190	NS
<i>Pachydactylus monicae</i>	Monica's Gecko	CAS 193418	HQ165952	HQ165982	HQ165967
<i>Pachydactylus montanus</i>	Namaqua Mountain Gecko	MCZ R-184243	KY224229	KY224327	KY224284
<i>Pachydactylus namaquensis</i>	Namaqua Gecko	MBUR01770 / JB247 / JB247	KY224230	KY224328	KY224285
<i>Pachydactylus oculatus</i>	Golden Spotted Gecko	PEM1284	KY224231	KY224329	KY224286
<i>Pachydactylus punctatus</i>	Speckled Gecko	PEM R-12461	KY224233	KY224331	KY224291
<i>Pachydactylus purcelli</i>	Purcell's Gecko	PEM FN1270	HQ165955	HQ165985	HQ165970
<i>Pachydactylus rangei</i>	Namib Web-footed Gecko	MCZ:R-183725	JX041394	JQ945324	JQ945392
<i>Pachydactylus rugosus</i>	Common Rough Gecko	CAS:HERP:201905	JX041395	JQ945325	JQ945393
<i>Pachydactylus tigrinus</i>	Tiger Gecko	NMB R10936	KY224237	KY224336	KY224297
<i>Pachydactylus vansonii</i>	Van Son's Gecko	MCZR-184434 / CAS 195392 / MCZR-184434	KY224239	DQ275432	KY224299
<i>Pachydactylus visseri</i>	Visser's Gecko	JB 59	KY224240	KY224338	KY224300
<i>Pachydactylus wahlbergii</i>	Kalahari Ground Gecko	NMZB:16974	JX041337	JQ945298	JQ945366
<i>Pachydactylus weberi</i>	Weber's Gecko	PEM R12449	HQ165960	HQ165990	HQ165975
<i>Ptenopus garrulus</i>	Common Barking Gecko	Pgar1	HQ165960	NS	NS
<i>Ramigekko swartbergensis</i>	Swartberg Leaf-toed Gecko	JB47	JX041305	JQ945280	JQ945348
<i>Rhoptropella ocellata</i>	Namaqua Day Gecko	AMB3860	NS	HQ426308	HQ426219
OUTGROUPS					
<i>Phyllodactylus tuberculosus</i>		KU 289758	JX041411	EU293630	EU293698
<i>Phyllodactylus delcampoi</i>		JAC21928	JX041407	HQ426310	HQ426221
<i>Phyllodactylus bugastrolepis</i>		ROM 38489	JX041406	EU293631	EU293699
<i>Phyllodactylus bordai</i>		AMCC118242	JX041405	HQ426309	HQ426220