

Appendix 2: Sampled lizard specimens used in Chapter 2. Cytb haplotypes refer to duplicates used in the GMYC analyses (Fig. 3). Asterisk indicates specimens with no morphology available. Brazilian states: TO = Tocantins, MT = Mato Grosso, MA= Maranhão, GO = Goiás, MG = Minas Gerais, CE = Ceará, PB = Paraíba. CHUNB: Coleção Herpetológica da Universidade de Brasília; ESTR: collection code Estreito; GRC:collection code Guarino Rinaldi Colli; LAJ: collection code Lajeado; LG: experiment code "lagartos do Laboratório de Citogenética de Vertebrados do Departamento de Genética do Instituto de Biociências da USP"; MD: collection code Mariana Dixo; MTR or MRT: collection code Miguel Trefaut Rodrigues; MZUSP: Museu de Zoologia da Universidade de São Paulo; OMNH: Oklahoma Museum of Natural History. *Phyllopezus pollicaris* sequences originally from Werneck and colleagues (2012), and *Gymnodactylus darwinii* sequences from Pellegrino and colleagues (2005).

Cytb Haplotype	Species	ID	Locality	Brazilian State	Genbank accession number (cytb/ KIF24)
1	<i>G. amarali</i> Clade H	MTR14578*	Almas	TO	KM283297/ KM283408
1	<i>G. amarali</i> Clade H	MTR14609*	Almas	TO	KM283298/ KM283415
1	<i>G. amarali</i> Clade H	MTR14808*	Almas	TO	KM283299/ KM283416
2	<i>G. amarali</i> Clade E	CHUNB55881	Barra do Garças	MT	KM283243/ KM283367
3	<i>G. amarali</i> Clade E	CHUNB55883	Barra do Garças	MT	KM283244/ KM283368
4	<i>G. amarali</i> Clade E	CHUNB63196	Barra do Garças	MT	KM283245/ KM283383
5	<i>G. amarali</i> Clade E	CHUNB63198	Barra do Garças	MT	KM283246/ KM283384
6	<i>G. amarali</i> Clade B	LG0889	Barra do Garças	TO	KM283291/ KM283407
7	<i>G. amarali</i> Clade H	ESTR1038	Carolina	MA	KM283247/ KM283393
8	<i>G. amarali</i> Clade H	ESTR00196*	Carolina	MA	KM283248/ KM283397
8	<i>G. amarali</i> Clade H	ESTR00197*	Carolina	MA	KM283249/ KM283398
9	<i>G. amarali</i> Clade H	CHUNB45283*	Caseara	TO	KM283250/ KM283355
9	<i>G. amarali</i> Clade H	CHUNB45318	Caseara	TO	KM283251/ KM283356
10	<i>G. amarali</i> Clade H	CHUNB45321	Caseara	TO	KM283252/ KM283357
9	<i>G. amarali</i> Clade H	CHUNB45336	Caseara	TO	KM283253/ KM283358
11	<i>G. amarali</i> Clade G	CHUNB53290	Cavalcante	GO	KM283255/ KM283363
11	<i>G. amarali</i> Clade G	CHUNB53292	Cavalcante	GO	KM283256/ KM283364
11	<i>G. amarali</i> Clade G	CHUNB53293	Cavalcante	GO	KM283257/ KM283365
12	<i>G. amarali</i> Clade C	CHUNB38645	Cocalzinho de Goiás	GO	KM283305/ KM283352
13	<i>G. amarali</i> Clade C	CHUNB38646	Cocalzinho de Goiás	GO	KM283306/ KM283353
14	<i>G. amarali</i> Clade D	CHUNB44704	Colinas do Sul	GO	KM283280/ KM283354
15	<i>G. amarali</i> Clade H	ESTR1293	Estreito	MA	KM283258/ KM283394
15	<i>G. amarali</i> Clade H	ESTR0642	Estreito	MA	KM283261/ KM283399
16	<i>G. amarali</i> Clade H	ESTR1759	Goiatins	TO	KM283259/ KM283395
17	<i>G. amarali</i> Clade H	ESTR1808	Goiatins	TO	KM283260/ KM283396
18	<i>G. amarali</i> Clade H	MRT7552*	Guarai	TO	KM283262/ KM283413
18	<i>G. amarali</i> Clade H	MRT7598*	Guarai	TO	KM283263/ KM283414
19	<i>G. amarali</i> Clade H	LAJ215	Lajeado	TO	KM283296/ KM283404
20	Manga	CHUNB58336	Manga	MG	KM283267/ KM283377
20	Manga	CHUNB58337	Manga	MG	KM283268/ KM283378
20	Manga	CHUNB58338	Manga	MG	KM283269/ KM283379
20	Manga	CHUNB58341	Manga	MG	KM283270/ KM283380

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21	<i>G. amarali</i> Clade H	CHUNB28219	Mateiros	TO	KM283271/ KM283345
21	<i>G. amarali</i> Clade H	CHUNB28220	Mateiros	TO	KM283272/ KM283346
21	<i>G. amarali</i> Clade H	CHUNB28222	Mateiros	TO	KM283273/ KM283347
22	Matias Cardoso	CHUNB58323	Matias Cardoso	MG	KM283274/ KM283375
22	Matias Cardoso	CHUNB58335	Matias Cardoso	MG	KM283275/ KM283376
22	Matias Cardoso	CHUNB58348	Matias Cardoso	MG	KM283276/ KM283381
23	<i>G. amarali</i> Clade D	GRC2152	Minaçu	GO	KM283277/ KM283342
24	<i>G. amarali</i> Clade D	GRC2204	Minaçu	GO	KM283278/ KM283343
25	<i>G. amarali</i> Clade D	GRC2211	Minaçu	GO	KM283279/ KM283344
26	<i>G. amarali</i> Clade D	CHUNB832	Minaçu	GO	KM283281/ KM283392
27	<i>G. amarali</i> Clade G	CHUNB53054	Monte Alegre de Goiás	GO	KM283319/ KM283359
28	<i>G. amarali</i> Clade G	CHUNB53058	Monte Alegre de Goiás	GO	KM283320/ KM283360
28	<i>G. amarali</i> Clade G	CHUNB53059	Monte Alegre de Goiás	GO	KM283321/ KM283361
28	<i>G. amarali</i> Clade G	CHUNB53061	Monte Alegre de Goiás	GO	KM283322/ KM283362
29	<i>G. amarali</i> Clade D	LG1072	Niquelândia	TO	KM283282/ KM283405
29	<i>G. amarali</i> Clade D	LG1075	Niquelândia	GO	KM283283/ KM283406
30	<i>G. amarali</i> Clade B	CHUNB55880	Nova Xavantina	MT	KM283284/ KM283366
30	<i>G. amarali</i> Clade B	CHUNB55884	Nova Xavantina	MT	KM283285/ KM283369
30	<i>G. amarali</i> Clade B	CHUNB55885	Nova Xavantina	MT	KM283286/ KM283370
30	<i>G. amarali</i> Clade B	CHUNB55887	Nova Xavantina	MT	KM283287/ KM283371
30	<i>G. amarali</i> Clade B	CHUNB55888	Nova Xavantina	MT	KM283288/ KM283372
31	<i>G. amarali</i> Clade B	CHUNB55889	Nova Xavantina	MT	KM283289/ KM283373
32	<i>G. amarali</i> Clade B	CHUNB55890	Nova Xavantina	MT	KM283290/ KM283374
33	<i>G. amarali</i> Clade B	CHUNB63195	Nova Xavantina	MT	KM283327/ KM283382
34	<i>G. amarali</i> Clade B	CHUNB63203	Nova Xavantina	MT	KM283328/ KM283385
35	<i>G. amarali</i> Clade B	CHUNB63204	Nova Xavantina	MT	KM283329/ KM283386
36	<i>G. amarali</i> Clade H	GRC10440	Palmas	TO	KM283294/ KM283330
36	<i>G. amarali</i> Clade H	GRC10442	Palmas	TO	KM283295/ KM283331
37	<i>G. amarali</i> Clade F	GRC10771	Palmas	TO	KM283292/ KM283332
38	<i>G. amarali</i> Clade F	CHUNB14555	Palmas	TO	KM283293/ KM283333
39	<i>G. amarali</i> Clade G	GRC15781	Paraná	TO	KM283300/ KM283340
40	<i>G. amarali</i> Clade G	GRC15869	Paraná	TO	KM283301/ KM283341
41	<i>G. amarali</i> Clade G	CHUNB37090	Paraná	TO	KM283302/ KM283348
42	<i>G. amarali</i> Clade G	CHUNB37125	Paraná	TO	KM283303/ KM283349
41	<i>G. amarali</i> Clade G	CHUNB37128	Paraná	TO	KM283304/ KM283350
43	<i>G. amarali</i> Clade H	MRT3949	Peixe	TO	KM283323/ KM283409
44	<i>G. amarali</i> Clade H	MRT4459	Peixe	TO	KM283254/ KM283410
45	<i>G. amarali</i> Clade C	CHUNB67394	Pirenópolis	GO	KM283307/ KM283387
45	<i>G. amarali</i> Clade C	CHUNB67395	Pirenópolis	GO	KM283308/ KM283388
45	<i>G. amarali</i> Clade C	CHUNB67396	Pirenópolis	GO	KM283309/ KM283389
46	<i>G. amarali</i> Clade C	CHUNB67441	Pirenópolis	GO	KM283310/ KM283390
45	<i>G. amarali</i> Clade C	CHUNB67443*	Pirenópolis	GO	KM283311/ KM283391
47	<i>G. amarali</i> Clade A	GRC15533	São Domingos	GO	KM283312/ KM283334
47	<i>G. amarali</i> Clade A	GRC15558	São Domingos	GO	KM283313/ KM283335
47	<i>G. amarali</i> Clade A	GRC15560	São Domingos	GO	KM283314/ KM283336
27	<i>G. amarali</i> Clade G	GRC15566	São Domingos	GO	KM283317/ KM283337

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47	<i>G. amarali</i> Clade A	GRC15568	São Domingos	GO	KM283315/ KM283338
47	<i>G. amarali</i> Clade A	GRC15569	São Domingos	GO	KM283316/ KM283339
48	<i>G. amarali</i> Clade G	GRC37161	São Domingos	GO	KM283318/ KM283351
49	<i>G. amarali</i> Clade H	MRT6428	São Salvador	TO	KM283324/ KM283411
50	<i>G. amarali</i> Clade H	MRT6435	São Salvador	TO	KM283325/ KM283412
51	<i>G. darwinii</i> A	LG958*	Porto Seguro	BA	AY630388.1/ NA
51	<i>G. darwinii</i> A	LG991*	Porto Seguro	BA	AY630392.1/ NA
NA	<i>G. darwinii</i>	CHUNB09443	Presidente Kennedy	ES	NA/ NA
NA	<i>G. darwinii</i>	CHUNB09453	Presidente Kennedy	ES	NA/ NA
NA	<i>G. darwinii</i>	CHUNB13546	Presidente Kennedy	ES	NA/ NA
52	<i>G. darwinii</i> B	MD1740*	Una	BA	AY630367.1/ NA
53	<i>G. darwinii</i> B	MD1742*	Una	BA	AY630368.1/ NA
54	<i>G. geckoides</i>	CHUNB56643	Mamanguape	PB	KM283264/ KM283400
54	<i>G. geckoides</i>	CHUNB56644	Mamanguape	PB	KM283265/ KM283401
54	<i>G. geckoides</i>	CHUNB56645	Mamanguape	PB	KM283266/ KM283402
55	<i>G. geckoides</i>	CHUNB56537	Milagres	CE	KM283326/ KM283403
56	<i>P. pollicaris</i>	CHUNB57388	Tianguá	CE	JQ827177.1/ JQ827663.1
57	<i>P. pollicaris</i>	CHUNB57389	Tianguá	CE	JQ827190.1/ JQ827664.1
58	<i>P. pollicaris</i>	CHUNB57403	Tianguá	CE	JQ827186.1/ JQ827667.1