

Table S1

Specimens used in the Barcoding analysis.

Vouchers (when geographic information whenever possible) and GenBank accession numbers for DNA sequences of 16S used in our analyses. In bold, sequences generated in the framework of the project of Barcoding of the Squamata of Paraguay. In the column “Origin” we provide the first publication of the sequence. At the bottom of the table, the references are provided.

Species	Voucher	Origin	GenBank	Locality	Lat/Long
<i>Ameiva ameiva</i>	ALA 3502	This study	MN276193	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Ameiva ameiva</i>	ALA 3518	This study	MN276194	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Ameiva ameiva</i>	GK 3611	This study	MN276195	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Ameiva ameiva</i>	053	Rodriguez 2012	JQ627268	São Carlos, São Paulo, Brazil	
<i>Ameiva ameiva</i>	064	Rodriguez 2012	JQ627269	São Carlos, São Paulo, Brazil	
<i>Ameiva ameiva</i>	071	Rodriguez 2012	JQ627270	São Carlos, São Paulo, Brazil	
<i>Ameiva ameiva</i>	108	Rodriguez 2012	JQ627271	São Carlos, São Paulo, Brazil	
<i>Ameiva ameiva</i>	116	Rodriguez 2012	JQ627272	São Carlos, São Paulo, Brazil	
<i>Ameiva ameiva</i>	MTD 41641	Koch et al. 2013	KF742714	Bolognesi, Region Ucayali, Peru	-9.8974 / -76.9416
<i>Ameiva ameiva</i>	MTD 41643	Koch et al. 2013	KF742715	Izcozacín, Region Pinasco, Peru	
<i>Ameiva ameiva</i>	MTD 46527	Koch et al. 2013	KF742716	Oxapampa, Region Pinasco, Peru	-10.5750 / -75.4001
<i>Ameiva ameiva</i>	MNHNP 11823	This study	MN276196	Cabaña Pindú, San Pedro Department (P)	-24.2036 / -56.4249
<i>Ameiva ameiva</i>	MNHNP 11825	This study	MN276197	Asentamiento San Ramón, Concepción Department (P)	-22.8828 / -57.4041
<i>Ameiva ameiva</i>	MNHNP 11828	This study	MN276198	Estancia Kumaré, Concepción Department (P)	-22.8975 / -57.4013
<i>Ameiva ameiva</i>	MNHNP 11829	This study	MN276199	Estancia Kumaré, Concepción Department (P)	-22.8975 / -57.4013
<i>Ameiva ameiva</i>	MNHNP 11834	This study	MN276200	Retiro de Estancia Kumaré, Concepción Department (P)	-22.9377 / -57.3954
<i>Ameiva ameiva</i>	PCS 300	This study	MN276201	Estancia Achira, Cordillera Department (P)	-25.1270 / -57.2263
<i>Ameiva ameiva</i>	PCS 306	This study	MN276202	Estancia La Susanita, Ñeembucú Department (P)	-26.1545 / -58.0653
<i>Ameiva ameiva</i>	PCS 407	This study	MN276203	Retiro 7 de Junio, Estancia Garay Cue, Concepción Department (P)	-22.5830 / -57.3278
<i>Ameiva ameiva</i>	PCS 572	This study	MN276204	Ocampo Cué, San Pedro Department (P)	-23.8802 / -57.1050
<i>Ameiva ameiva</i>	PCS 595	This study	MN276205	Estancia La Rural, Presidente Hayes Department (P)	-24.8290 / -57.7670
<i>Ameivula</i> sp.	MZ 78779	Whiting et al. 2003	AY217992	Barra do Garças, Mato Grosso, Brazil	-15.8909 / -52.2506
<i>Ameivula</i> sp.	MRT946089	Pellegrino et al. 2001	AF420759	Barra do Garças, Mato Grosso, Brazil	-15.8909 / -52.2506
<i>Ameivula apipensis</i>	MNHNP 11826	This study	MN276206	Asentamiento San Ramón, Concepción Department (P)	-22.8828 / -57.4041
<i>Ameivula apipensis</i>	MNHNP 11830	This study	MN276207	Estancia Kumaré, Concepción Department (P)	-22.8975 / -57.4013
<i>Ameivula apipensis</i>	PC 17	This study	MN276208	Quinta Las Andreas, Cordillera Department (P)	-25.2250 / -57.2410
<i>Ameivula apipensis</i>	PCS 403	This study	MN276209	Retiro 7 de Junio, Estancia Garay Cue, Concepción Department (P)	-22.5830 / -57.3278
<i>Amerotyphlops brongersmianus</i>	GK 3675	This study	MN276210	Estancia Schoder, Concepción Department (P)	-23.4724 / -57.2363
<i>Amerotyphlops brongersmianus</i>	GK 3813	This study	MN276211	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Amerotyphlops brongersmianus</i>	GK 3908	This study	MN276212	Areguá, Central Department (P)	-25.3156 / -57.3771
<i>Amerotyphlops brongersmianus</i>		Simões et al. 2015	KR815889	No data.	
<i>Amphisbaena alba</i>	CHUNB 30678	Mott & Vieites 2009	FJ441705	Jalapão, Tocantins, Brazil	-10.2855 / -46.7647
<i>Amphisbaena alba</i>	UFMT 3468	Mott & Vieites 2009	FJ441706	Guarantã do Norte, Mato Grosso, Brazil	-9.9501 / -54.9147
<i>Amphisbaena alba</i>		Simões et al. 2015	KR815887	No data.	
<i>Amphisbaena angustifrons</i>	Montero 3	Mott & Vieites 2009	FJ441707	Tucumán, Argentina	



Species	Voucher	Origin	GenBank	Locality	Lat/Long
<i>Amphisbaena bolivica</i>	GK 3687	This study	MN276213	Estancia Amistad, Boquerón Department (P)	-22.4077 / -60.7259
<i>Amphisbaena bolivica</i>	PCS 542	This study	MN276214	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Amphisbaena bolivica</i>	Montero 8	Mott & Vieites 2009	FJ441669	Tucumán, Argentina	
<i>Amphisbaena bolivica</i>	Montero 11	Mott & Vieites 2009	FJ441670	Tucumán, Argentina	
<i>Amphisbaena mertensi</i>	KU 290721	Mott & Vieites 2009	FJ441674	Alto Verá, Itapúa Department (P)	-26.7507 / -55.7717
<i>Amphisbaena mertensi</i>	MPEG 21462	Mott & Vieites 2009	FJ441676	Marília, São Paulo, Brazil	-22.2175 / -49.9505
<i>Amphisbaena prunicolor</i>	PCS 521	This study	MN276215	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Amphisbaena sp.</i>	PCS 314	This study	MN276216	Tobich, Alto Paraguay Department (P)	-20.2913 / -58.5636
<i>Boiruna maculata</i>	GK 3722	This study	MN276217	Filadelfia, Boquerón Department (P)	-22.3512 / -60.0544
<i>Boiruna maculata</i>	Rel 11 2 12	This study	MN276218	Paraguay	
<i>Bothrops alternatus</i>	MM FE2	Fenwick et al. 2009	EU867262	Itarapina Ecological Station, São Paulo, Brazil	-22.2496 / -47.8259
<i>Bothrops alternatus</i>	ITS 358	Fenwick et al. 2009	EU867263	Itarapina Ecological Station, São Paulo, Brazil	-22.2496 / -47.8259
<i>Bothrops alternatus</i>	PCS 333	This study	MN276219	Belén, Concepción Department (P)	-23.4445 / -57.3544
<i>Bothrops diporus</i>	PT 3404	Castoe & Parkinson 2006	DQ305454	Castro Barros, La Rioja, Argentina	
<i>Bothrops jararaca</i>	MM (19)6	Fenwick et al. 2009	EU867266	Itarapina Ecological Station, São Paulo, Brazil	-22.2496 / -47.8259
<i>Bothrops jararacussu</i>	MZUSP 15220	Alencar et al. 2016	KX694622	No data.	
<i>Bothrops moojeni</i>	MM-OBA	Fenwick et al. 2009	EU867271	Itarapina Ecological Station, São Paulo, Brazil	-22.2496 / -47.8259
<i>Bothrops neuwiedii</i>	PCS 302	This study	MN276220	Estancia Achira, Cordillera Department (P)	-25.1277 / -57.2263
<i>Bothrops neuwiedii</i>	PCS 318	This study	MN276221	Tobich, Alto Paraguay Department (P)	-20.2913 / -58.5636
<i>Bothrops neuwiedii</i>	PCS 331	This study	MN276222	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Bothrops neuwiedii</i>	PCS 504	This study	MN276223	Laguna Blanca, San Pedro Department (P)	-23.7572 / -56.3226
<i>Bothrops neuwiedii</i>	PCS 530	This study	MN276224	Guairá Department (P)	-25.2250 / -57.2410
<i>Bothrops neuwiedii</i>	R 14	This study	MN276225	Quinta Las Andreas, Cordillera Department (P)	-22.7096 / -57.3778
<i>Bothrops neuwiedii</i>	005	GenBank only	JQ627282	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Bothrops neuwiedii</i>	CLP 3	Fenwick et al. 2009	EU867272	No data.	
<i>Cercosaura schreibersii</i>	LG 1168	Pellegrino et al. 2001	AF420729	São Paulo, São Paulo, Brazil	-23.55 / -46.63
<i>Cercosaura schreibersii</i>	LG 927	Pellegrino et al. 2001	AF420749	São Paulo, São Paulo, Brazil	-23.55 / -46.63
<i>Cercosaura schreibersii</i>	PCS 410	This study	MN276226	Estancia Garay Cué, Concepción Department (P)	-22.6502 / -56.0141
<i>Cercosaura sp.</i>	ALA 3498	This study	MN276227	Parque Nacional Cerro Cora, Amambay Department (P)	-22.3512 / -60.0544
<i>Chironius maculiventris</i>	GK 3720	This study	MN276228	Filadelfia, Boquerón Department (P)	-22.8645 / -59.5876
<i>Chironius maculiventris</i>	PCS 319	This study	MN276229	Ruta 9, Km 398, Boquerón Department (P)	-23.2643 / -56.2038
<i>Chironius maculiventris</i>	LCBB 23	Hamdan et al. 2017	MF673221	Rio Grande do Sul, Brazil	
<i>Clelia clelia</i>	PCS 468	This study	MN276230	Estancia Ka'i Rague, Amambay Department (P)	-25.2588 / -57.2850
<i>Clelia clelia</i>	MNHN 1997.2094	Vidal et al. 2000	AF158472	Petit Saut, French Guiana	-5.07 / -53.06
<i>Colobosaura kraepelini</i>	GK 3852	This study	MN276231	San Bernardino, Cordillera Department (P)	-22.3389 / -60.0349
<i>Colobosaura modesta</i>	LG 1145	Whiting et al. 2003	AY217953	Niquelândia, Goiás, Brazil	-14.467 / -48.454
<i>Epicrates alvarezii</i>	GK 3678	This study	MN276232	Filadelfia, Boquerón Department (P)	-23.8174 / -56.2910
<i>Epicrates crassus</i>		Vences et al. 2001	AF215273	No data.	
<i>Epicrates crassus</i>	PCS 517	This study	MN276233	Laguna Blanca, San Pedro Department (P)	-23.4445 / -57.3544
<i>Erythrolamprus aesculapii</i>	MNHN 1996.7896	Vidal et al. 2000	AF158531	BPS road, Petit Saut, French Guiana	-5.116 / -52.962
<i>Erythrolamprus aesculapii</i>	IBSP 74046	Zaher et al. 2009	GQ457736	Brazil	
<i>Erythrolamprus aesculapii</i>	ROM 47474	Hodson & Lehtinen 2017	KY986512	Guyana	
<i>Erythrolamprus aesculapii</i>	PCS 327	This study	MN276234	Belén, Concepción Department (P)	-22.4077 / -60.7259
<i>Erythrolamprus poecilogyrus</i>	GK 3734	This study	MN276235	Estancia Amistad, Boquerón Department (P)	-26.1102 / -58.0180
<i>Erythrolamprus poecilogyrus</i>	LSUMZ H-6972	Hodson & Lehtinen 2017	KY986516	Argentina	



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<i>Erythrolamprus poecilogyrus</i>	PCS 309	This study	MN276236	Estancia Agatapé, Ñeembucú Department (P)	-20.2913 / -58.5636
<i>Erythrolamprus poecilogyrus</i>	PCS 315	This study	MN276237	Tobich, Alto Paraguay Department (P)	-24.8290 / -57.7670
<i>Erythrolamprus poecilogyrus</i>	PCS 599	This study	MN276238	Estancia La Rural, Presidente Hayes Department (P)	-25.7209 / -56.2512
<i>Erythrolamprus reginae</i>		Simões et al. 2016	KX277247	No data.	
<i>Erythrolamprus reginae</i>	PCS 529	This study	MN276239	Granja SHS, Guairá Department (P)	-22.3470 / -60.0489
<i>Erythrolamprus sagittifer</i>	GK 3747	This study	MN276240	Filadelfia, Boquerón Department (P)	-25.2250 / -57.2410
<i>Helicops leopardinus</i>	GK 3612	This study	MN276241	Río Paraguay, Concepción Department (P)	-23.4174 / -57.4526
<i>Helicops leopardinus</i>	PCS 600	This study	MN276242	Ruta 9, Km 68,5, Presidente Hayes Department (P)	-24.8460 / -57.7440
<i>Hemidactylus mabouia</i>	TZ 12	Rocha et al. 2010	HM192543	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	TZ 23	Rocha et al. 2010	HM192545	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	BP 6	Rocha et al. 2010	HM192547	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	Z 47	Rocha et al. 2010	HM192550	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	SA 29	Rocha et al. 2010	HM192609	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	3MA 41	Rocha et al. 2010	JF329706	Supplementary Information not available.	
<i>Hemidactylus mabouia</i>	PCS 597	This study	MN276243	Estancia La Rural, Presidente Hayes Department (P)	-24.8290 / -57.7670
<i>Homonota horrida</i>	BYU 47491	Cacciali et al. 2017	MF278828	RP 190, Mendoza, Argentina	-35.538 / -68.080
<i>Homonota horrida</i>	LJAMM-CNP 10495	Cacciali et al. 2017	MF278829	RP 190, Mendoza, Argentina	-35.538 / -68.080
<i>Homonota horrida</i>	LJAMM-CNP 10576	Cacciali et al. 2017	MF278830	2.3 km S from Punta del Agua, Mendoza, Argentina	-35.541 / -68.079
<i>Homonota septentrionalis</i>	MNHNP 11873	Cacciali et al. 2017	MF278831	Mariscal Estigarribia, Boquerón Department (P)	-22.0365 / -60.6168
<i>Homonota septentrionalis</i>	MNHNP 12238	Cacciali et al. 2017	MF278832	Fortín Mayor Infante Rivarola, Boquerón Department (P)	-21.6790 / -62.4010
<i>Homonota septentrionalis</i>	SMF 101984	Cacciali et al. 2017	MF278833	Fortín Mayor Infante Rivarola, Boquerón Department (P)	-21.6790 / -62.4010
<i>Homonota marthae</i>	GK 3731	Cacciali et al. 2018a	MG947388	Filadelfia, Boquerón Department (P)	-22.3470 / -60.0489
<i>Hydrodynastes gigas</i>	MRT 969	Zaher et al. 2009	GQ457743	Brazil	
<i>Hydrodynastes gigas</i>	PC 29	This study	MN276244	Ruta 3, km 121, San Pedro Department (P)	-24.7432 / -56.6285
<i>Kentropyx viridistriga</i>	UFMT 1270	Werneck et al. 2009	EU345182	Mato Grosso, Brazil	
<i>Kentropyx viridistriga</i>	UFMT 2375	Werneck et al. 2009	EU345183	Mato Grossi, Brazil	
<i>Kentropyx viridistriga</i>	PCS 495	This study	MN276245	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Leptophis ahaetulla</i>	GK 3594	This study	MN276246	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Leptophis ahaetulla</i>	GK 3809	This study	MN276247	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Leptophis ahaetulla</i>	PCS 532	This study	MN276248	Granja SHS, Guairá Department (P)	-25.7209 / -56.2512
<i>Leptophis ahaetulla</i>	LSUMZ 13874	Murphy et al. 2013	KF667669	5 km N of Poto Walter, Acre, Brazil	-8.15 / -72.46
<i>Leptophis ahaetulla</i>	LSUMZ 12288	Murphy et al. 2013	KF667670	1 km E of Waimari, Amazonas, Brazil	
<i>Leptophis ahaetulla</i>	AMNH 140899	Murphy et al. 2013	KF667671	Dubulay Ranch, Guyana	5.40 / -57.51
<i>Leptophis ahaetulla</i>	CAS 231717	Murphy et al. 2013	KF667673	Road ER16, Trinidad	10.04 / -61.37
<i>Leptophis ahaetulla</i>	UAM H-103	Murphy et al. 2013	KF667675	Lagunita, Mbaracayú Reserve, Canindeyú Department (P)	-24.1348 / -55.4209
<i>Liolaemus azarai</i>	GK 3919	This study	MN276249	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Liolaemus azarai</i>	GK 3927	This study	MN276250	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Lygodactylus wetzeli</i>	GK 3689	This study	MN276251	Estancia Amistad, Boquerón Department (P)	-22.4077 / -60.7259
<i>Lygophis dilepis</i>	GK 3808	This study	MN276252	Road Pozo Colorado-Concepcion, Presidente Hayes Department (P)	-23.4709 / -57.6245
<i>Manciola guaporicola</i>	CZPLT 567	This study	MN276253	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Manciola guaporicola</i>	PNA 185	Whiting et al. 2006	DQ238900	No data.	
<i>Manciola guaporicola</i>	LG 1574	Whiting et al. 2006	DQ238928	No data.	
<i>Manciola guaporicola</i>	UAM 104	Karin et al. 2016	KX364960	Mbaracayú Reserve, Canindeyú Department (P)	-24.1279 / -55.5281
<i>Mastigodryas bifossatus*</i>	GK 3993	This study	MN276254	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Mastigodryas bifossatus*</i>	PCS 325	This study	MN276255	Ruta Nueva Colombia–Altos, Cordillera Department (P)	-25.1453 / -57.2598



Species	Voucher	Origin	GenBank	Locality	Lat/Long
<i>Mastigodryas bifossatus</i> *		Klaczko et al. 2014	HM582223	Sequence not used by the authors in the publication.	
<i>Micrablepharus maximiliani</i>	PCS 519	This study	MN276256	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Micrablepharus maximiliani</i>	LG 1017	Pellegrino et al. 2001	AF420730	Barra do Garças, Mato Grosso, Brazil	-15.8909 / -52.2506
<i>Micrurus altirostris</i>	016	GenBank only	JQ627286	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Micrurus frontalis</i>	GK 3932	This study	MN276257	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Micrurus pyrrhocryptus</i>	PCS 310	This study	MN276258	5 km de N of Toro Pampa, Alto Paraguay Department (P)	-20.9282 / -58.5968
<i>Micrurus</i> sp.	PCS 334	This study	MN276259	Belén, Concepción Department (P)	-23.4445 / -57.3544
<i>Micrurus</i> sp.	PCS 337	This study	MN276260	Belén, Concepción Department (P)	-23.4445 / -57.3544
<i>Mussurana bicolor</i>	GK 3621	This study	MN276261	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Mussurana bicolor</i>	PCS 330	This study	MN276262	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Mussurana bicolor</i>	FML 15875	Zaher et al. 2009	GQ457729	Argentina	
<i>Notomabuya frenata</i>	ALA 3516	This study	MN276263	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Notomabuya frenata</i>	GK 3846	This study	MN276264	San Bernardino, Cordillera Department (P)	-25.2944 / -57.3126
<i>Notomabuya frenata</i>	PCS 313	This study	MN276265	Tobich, Alto Paraguay Department (P)	-20.2913 / -58.5636
<i>Notomabuya frenata</i>	PCS 496	This study	MN276266	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Notomabuya frenata</i>	PCS 538	This study	MN276267	Granja SHS, Guairá Department (P)	-25.7209 / -56.2512
<i>Notomabuya frenata</i>		Mausfeld & Lötters 2001	AF202628	Bolivia	
<i>Notomabuya frenata</i>		Mausfeld & Lötters 2001	AF202629	Brazil	
<i>Notomabuya frenata</i>	MRT 08714	Whiting et al. 2006	DQ238886	No data.	
<i>Notomabuya frenata</i>	PNA 77	Whiting et al. 2006	DQ238924	No data.	
<i>Notomabuya frenata</i>	LG 1042	Whiting et al. 2006	DQ238925	No data.	
<i>Notomabuya frenata</i>	SC 28	Whiting et al. 2006	DQ238932	No data.	
<i>Notomabuya frenata</i>	UAM 60	Metallinou et al. 2016	KX231453	No data.	
<i>Ophiodes intermedius</i>	GK 3854	This study	MN276268	San Bernardino, Cordillera Department (P)	-25.3074 / -57.3029
<i>Ophiodes intermedius</i>	GK 3864	This study	MN276269	Areguá, Cordillera Department (P)	-25.3145 / -57.3753
<i>Ophiodes intermedius</i>	PCS 332	This study	MN276270	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Ophiodes intermedius</i>	PCS 608	This study	MN276271	Near Estancia La Rural, Presidente Hayes Department (P)	-24.8168 / -57.7781
<i>Ophiodes intermedius</i>	PCS 615	This study	MN276272	Near Estancia La Rural, Presidente Hayes Department (P)	-24.8168 / -57.7781
<i>Ophiodes</i> sp.	PCS 374	This study	MN276273	Estancia Garay Cué, Concepción Department (P)	-22.7096 / -57.3778
<i>Ophiodes striatus</i>		Simões et al. 2015	KR815881	No data.	
<i>Oxyrhopus guibei</i>	ALA 3517	This study	MN276274	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Oxyrhopus guibei</i>	PCS 618	This study	MN276275	Estancia Achira, Cordillera Department (P)	-25.1277 / -57.2263
<i>Oxyrhopus guibei</i>	004	GenBank only	JQ627288	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Oxyrhopus guibei</i>	009	GenBank only	JQ627289	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Oxyrhopus guibei</i>	011	GenBank only	JQ627290	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Oxyrhopus guibei</i>	013	GenBank only	JQ627291	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Oxyrhopus guibei</i>	015	GenBank only	JQ627292	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Oxyrhopus guibei</i>	055	GenBank only	JQ627294	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Phalotris matogrossensis</i>	PCS 329	This study	MN276276	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Phalotris matogrossensis</i>	PCS 335	This study	MN276277	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Philodryas olfersii</i>	GK 3937	This study	MN276278	Granja El Roble, Concepción Department (P)	-23.4560 / -57.2803
<i>Philodryas olfersii</i>		Vidal et al. 2000	AF158484	São Paulo, Brazil	
<i>Philodryas patagoniensis</i>	PCS 311	This study	MN276279	Road Loma Plata - Tobich, Alto Paraguay Department (P)	-21.8695 / -58.6221
<i>Philodryas patagoniensis</i>	PCS 408	This study	MN276280	Estancia Garay Cué, Concepción Department (P)	-22.7096 / -57.3778
<i>Philodryas patagoniensis</i>	PCS 605	This study	MN276281	Estancia La Rural, Presidente Hayes Department (P)	-24.8290 / -57.7670

Species	Voucher	Origin	GenBank	Locality	Lat/Long
<i>Philodryas patagoniensis</i>	PCS 622	This study	MN276282	27 km ESE of 25 de Diciembre, Cordillera Department (P)	-24.9084 / -56.9742
<i>Philodryas patagoniensis</i>	MCP 5753	Zaher et al. 2009	GQ457760	Brazil	
<i>Phimophis guerini</i>	GK 3934	This study	MN276283	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Phimophis guerini</i>	ITS 317	Zaher et al. 2009	GQ457761	Brazil	
<i>Phimophis vittatus</i>	GK 3728	This study	MN276284	Filadelfia, Boquerón Department (P)	-22.3470 / -60.0489
<i>Phimophis vittatus</i>	GK 3775	This study	MN276285	12 km E Filadelfia, Boquerón Department (P)	-22.3347 / -60.1578
<i>Phyllopezus przewalskii</i>	MNHNP 11957	Cacciali et al. 2017b	MH397465	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Phyllopezus przewalskii</i>	MNHNP 11958	Cacciali et al. 2017b	MH397466	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Phyllopezus przewalskii</i>	SMF 100495	Cacciali et al. 2017b	MF278834	Estancia Amistad, Boquerón Department (P)	-22.4077 / -60.7259
<i>Phyllopezus przewalskii</i>	MNCN 5903	Gamble et al. 2012	JN935577	Serranía Aguarague, Tarija, Bolivia	-21.27 / -64.85
<i>Phyllopezus przewalskii</i>	MTD 43490	Gamble et al. 2012	JN935578	Fortín Toledo, Boquerón Department (P)	-22.3577 / -60.3384
<i>Phyllopezus przewalskii</i>	MTD 43492	Gamble et al. 2012	JN935579	Fortín Toledo, Boquerón Department (P)	-22.3577 / -60.3384
<i>Phyllopezus przewalskii</i>	TG 00105	Gamble et al. 2012	JN935565	Paraguay	
<i>Phyllopezus heuteri</i>	MHNHNP 2 39	Cacciali et al. 2017b	MH397468	Cerro de Tobatí, Cordillera Department (P)	-25.2797 / -57.0925
<i>Phyllopezus heuteri</i>	MHNHNP 2 40	Cacciali et al. 2017b	MH397467	Cerro de Tobatí, Cordillera Department (P)	-25.2797 / -57.0925
<i>Polychrus acutirostris</i>	GK 3802	This study	MN276286	Near Granja El Roble, Concepción Department (P)	-23.4551 / -57.2858
<i>Polychrus acutirostris</i>	GK 3807	This study	MN276287	1 km E Concepción, Presidente Hayes Department (P)	-23.4541 / -57.4676
<i>Polychrus acutirostris</i>	PCS 612	This study	MN276288	Estancia La Rural, Presidente Hayes Department (P)	-24.8290 / -57.7670
<i>Polychrus acutirostris</i>	POE 2767	Torres-Carvajal et al. 2017	KY982367	Rio Sehra Resort, Warnes, Bolivia	-17.56 / -63.19
<i>Polychrus acutirostris</i>	POE 2783	Torres-Carvajal et al. 2017	KY982369	Ambero EcoResort, Ichilo, Bolivia	-17.45 / -63.67
<i>Polychrus acutirostris</i>	ZFMK 59756	Torres-Carvajal et al. 2017	KY982371	Caruaru, Pernambuco, Brazil	-8.28 / -35.97
<i>Psomophis genimaculatus</i>	GK 3791	This study	MN276289	E of Filadelfia, Boquerón Department (P)	-22.5585 / -59.4885
<i>Psomophis genimaculatus</i>	PGE001	Zaher et al. 2009	GQ457767	Brazil	
<i>Salvator merianae</i>	PCS 437	This study	MN276290	Estancia Ka'i Ragüe, Amambay Department (P)	-23.2469 / -56.2099
<i>Salvator merianae</i>	060	GenBank only	JQ627299	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Salvator merianae</i>	065	GenBank only	JQ627300	"Brazil". Coordinates provided.	-21.98 / -47.87
<i>Salvator merianae</i>	CHUNB 00486	Murphy et al. 2016	KU894535	No data.	
<i>Salvator merianae</i>	CHUNB 00503	Murphy et al. 2016	KU894536	No data.	
<i>Salvator merianae</i>	LH 607	Murphy et al. 2016	KU894537	No data.	
<i>Sibynomorphus turgidus**</i>	PCS 528	This study	MN276291	Melgarejo, Guairá Department (P)	-25.7193 / -56.2346
<i>Sibynomorphus turgidus**</i>	LSUMNS 6459	Figueroa et al. 2016	KX660279	No data.	
<i>Stenocercus caducus</i>	PC 43	This study	MN276292	Dr. Juan E. Estigarribia, Caaguazú Department (P)	-25.3672 / -55.7127
<i>Stenocercus caducus</i>	PCS 498	This study	MN276293	Laguna Blanca, San Pedro Department (P)	-23.8103 / -56.2954
<i>Teius oculatus</i>	MNHNP 11802	This study	MN276297	Distrito Itakyry, Alto Paraná Department (P)	-24.9830 / -55.0827
<i>Teius oculatus</i>	MNHNP 11803	This study	MN276298	Distrito Itakyry, Alto Paraná Department (P)	-24.9830 / -55.0827
<i>Teius oculatus</i>	MNHNP 11836	This study	MN276299	Parque Nacional San Rafael, Itapúa Department (P)	-26.5115 / -55.7924
<i>Teius oculatus</i>	SC 407	This study	MN276300	20 km E de Melo, Cerro Largo, Uruguay	-32.21 / -53.59
<i>Teius oculatus</i>	SC 408	This study	MN276301	20 km E de Melo, Cerro Largo, Uruguay	-32.21 / -53.59
<i>Teius oculatus</i>	LJAMM-CNP 5730	This study	MN276294	La Paz, Mendoza, Argentina	-34.07 / -66.49
<i>Teius oculatus</i>	LJAMM-CNP 5772	This study	MN276295	San Luis capital, Argentina	-33.46 / -66.38
<i>Teius oculatus</i>	LJAMM-CNP 6915	This study	MN276296	Villarino, Buenos Aires, Argentina	-38.38 / -63.05
<i>Teius teyou</i>	MNHNP 11813	This study	MN276306	Agrogranadada Solito, Presidente Hayes Department (P)	-24.2908 / -58.8372
<i>Teius teyou</i>	PCS 215	This study	MN276307	Quinta Las Andreas, Cordillera Department (P)	-25.2250 / -57.2410
<i>Teius teyou</i>	PCS 563	This study	MN276308	Rancho 068, San Pedro Department (P)	-23.7089 / -56.3596
<i>Teius teyou</i>	LJAMM-CNP 12043	This study	MN276302	Anta, Salta, Argentina	-24.32 / -63.23

Species	Voucher	Origin	GenBank	Locality	Lat/Long
<i>Teius teyou</i>	LJAMM-CNP 12128	This study	MN276303	Ojo de Agua, Santiago del Estero, Argentina	-29.19 / -63.53
<i>Teius teyou</i>	LJAMM-CNP 12488	This study	MN276304	Valle Fértil, San Juan, Argentina	-30.12 / -67.40
<i>Teius teyou</i>	LJAMM-CNP 8578	This study	MN276305	Castro Barros, La Rioja, Argentina	-28.44 / -66.56
<i>Thamnodynastes chaquensis</i>	GK 3638	This study	MN276309	Road Concepción/Pozo Colorado, Presidente Hayes Department (P)	-23.4664 / -57.6071
<i>Thamnodynastes hypoconia</i>	PCS 610	This study	MN276310	Near Estancia La Rural, Presidente Hayes Department (P)	-24.8023 / -57.7882
<i>Thamnodynastes hypoconia</i>	PCS 611	This study	MN276311	Estancia La Rural, Presidente Hayes Department (P)	-24.8290 / -57.7670
<i>Thamnodynastes hypoconia</i>	KU 290727	Figueroa et al. 2016	KX660253	No data.	
<i>Tropidurus catalanensis</i>	SMF 100093	Cacciali & Köhler 2018	MG438491	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Tropidurus catalanensis</i>	SMF 100090	Cacciali & Köhler 2018	MG438492	Isla Yacyretá, Misiones Department (P)	-27.4306 / -56.7318
<i>Tropidurus catalanensis</i>	UFRGST 2890	Carvalho et al. 2016	KU245311	Manoel Viana, Rio Grande do Sul, Brazil	-29.59 / -55.49
<i>Tropidurus etheridgei</i>	SMF 101595	Cacciali & Köhler 2018	MG438493	Filadelfia, Boquerón Department (P)	-22.3470 / -60.0489
<i>Tropidurus etheridgei</i>	SMF 101596	Cacciali & Köhler 2018	MG438949	Filadelfia, Boquerón Department (P)	-22.3470 / -60.0489
<i>Tropidurus etheridgei</i>	LG 1096	Carvalho et al. 2016	KU245298	Fuerte Esperanza, Chaco, Argentina	-25.1602 / -61.8442
<i>Tropidurus lagunablanca</i>	SMF 103320	Cacciali & Köhler 2018	MG438497	Laguna Blanca, San Pedro Department (P)	-23.8174 / -56.2910
<i>Tropidurus spinulosus</i>	SMF 100095	Cacciali & Köhler 2018	MG438495	San Bernardino, Cordillera Department (P)	-25.3074 / -57.3029
<i>Tropidurus spinulosus</i>	SMF 100096	Cacciali & Köhler 2018	MG438496	San Bernardino, Cordillera Department (P)	-25.3074 / -57.3029
<i>Tropidurus spinulosus</i>	SMF 100094	Cacciali & Köhler 2018	MG438498	Estancia Amistad, Boquerón Department (P)	-22.4069 / -60.7285
<i>Tropidurus spinulosus</i>	AMNH 176295	Carvalho et al. 2016	KU245314	Loma Plata, Boquerón Department (P)	-22.374 / -59.829
<i>Tropidurus spinulosus</i>	IIBP-H 3463	Cacciali & Köhler 2018	MG438500	Estación Biológica Tres Gigantes, Alto Paraguay Department (P)	-20.0810 / -58.1651
<i>Tropidurus spinulosus</i>	PCS 312	Cacciali & Köhler 2018	MG438499	Tobich, Alto Paraguay Department (P)	-20.2913 / -58.5636
<i>Tropidurus tarara</i> ***	SMF 103314	Cacciali & Köhler 2018	MG438501	Retiro 7 de Junio, Estancia Garay Cue, Concepción Department (P)	-22.5830 / -57.3278
<i>Tropidurus tarara</i> ***	SMF 103315	Cacciali & Köhler 2018	MG438502	Retiro 7 de Junio, Estancia Garay Cue, Concepción Department (P)	-22.5830 / -57.3278
<i>Tropidurus tarara</i> ***	SMF 103316	Cacciali & Köhler 2018	MG438503	Estancia Garay Cué, Concepción Department (P)	-22.7096 / -57.3778
<i>Tropidurus teyumirim</i> ***	AMNHFS 20281	Cacciali & Köhler 2018	MG438504	Parque Nacional Ybycuí, Paraguari Department (P)	-26.0954 / -56.8387
<i>Vanzosaura multiscutata</i>	MRT 5059	Pellegrino et al. 2001	AF420716	Vacaria, Bahía, Brazil	-10.659 / -42.604
<i>Vanzosaura rubricauda</i>	ALA 3513	This study	MN276312	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Vanzosaura rubricauda</i>	ALA 3514	This study	MN276313	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Vanzosaura rubricauda</i>	ALA 3528	This study	MN276314	Parque Nacional Cerro Cora, Amambay Department (P)	-22.6502 / -56.0141
<i>Vanzosaura rubricauda</i>	GK 3801	This study	MN276315	Estancia Amistad, Boquerón Department (P)	-22.4069 / -60.7285
<i>Xenodon merremi</i>	GK 3821	This study	MN276316	San Bernardino, Cordillera Department (P)	-25.3074 / -57.3029
<i>Xenodon merremi</i>	PCS 531	This study	MN276317	Guairá Department Filadelfia, Boquerón Department (P)	
<i>Xenodon pulcher</i>	GK 3773	This study	MN276319	Kleefeld, Boquerón Department (P)	-22.3470 / -60.0489
<i>Xenodon pulcher</i>	GK 3778	This study	MN276318	Estación Biológica Tres Gigantes, Alto Paraguay Department (P)	-22.3406 / -60.0088
<i>Sphenodon punctatus</i>		Miller 2006	DQ267621	New Zeland	

Observations: Specimens marked with “(P)” proceed from Paraguay. **Mastigodryas bifossatus* is currently *Palusophis bifossatus* according to Montingelli et al. (2019).

***Sibynomorphus turgidus* is currently *Dipsas turgidus* according to Arteaga et al. (2018). ***These species are currently recognized as *T. lagunablanca* according to Cacciali & Köhler (2018).

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