Phylogenetic position of *Lycodon gongshan* Vogel and Luo, a snake endemic to China (Reptilia: Colubridae)Peng Guo¹, Guanghui Zhong^{1,2}, Qin Liu^{1,3}, Cao, Li¹, Ping Wang¹, Rong Xiao¹, Ming Fang¹, Xin Fu¹¹ College of Life Sciences and Food Engineering, Yibin University, Yibin 644007, China² College of Tourism and Urban-Rural Planning, Chengdu University of Technology, Chengdu 610059, China³ College of Life Sciences, Sichuan University, Chengdu 610064, China

Supplementary material

Table S1. Specimen details and GenBank accession numbers for the *Lycodon* specimens used in this analysis.

Taxon	Voucher numbers	Locality	GenBank Access Numbers			
			Cyt. b	ND4	c-mos	Rag-1
<i>Lycodon alcalai</i>	KU 327847	Batanes, Philippines	KC010344	-	KC010303	-
<i>Lycodon alcalai</i>	KU 327848	Batanes, Philippines	KC010345	-	KC010304	-
<i>Lycodon aulicus</i>	-	-	HQ 735416	-	HQ735418	-
<i>Lycodon aulicus</i>	CAS 205000	Rakhine State, Myanmar	KC010346	-	KC010305	-
<i>Lycodon aulicus</i>	CDSGS 4621	Bohol, Philippines	KC010347	-	-	-
<i>Lycodon aulicus</i>	KU 305141	Antique, Philippines	KC010348	-	KC010306	-
<i>Lycodon aulicus</i>	KU 315170	Zamboanga, Philippines	KC010359	-	KC010317	-
<i>Lycodon aulicus</i>	KU 315378	Romblon, Philippines	KC010350	-	KC010308	-
<i>Lycodon aulicus</i>	KU 328524	SERS, Nakhon Ratchasima, Thailand	KC010358	-	KC010316	-
<i>Lycodon aulicus</i>	LSUHC 5725	Johor, Pulau Rawa, Malaysia	KC010355	-	KC010313	-

<i>Lycodon aulicus</i>	LSUHC 9277	Nam Du Island, Kien Giang, Vietnam,	KC010356	-	KC010314	-
<i>Lycodon aulicus</i>	LSUHC 9695	Cambodia	KC010357	-	KC010315	-
<i>Lycodon aulicus</i>	PNM 7705	Leyte, Philippines	KC010349	-	KC010307	-
<i>Lycodon bibonius</i>	KU 304589	Cagayan, Philippines	KC010351	-	KC010309	-
<i>Lycodon butleri</i>	LSUHC 8066	Fraser's Hill, Pahang, Malaysia	KC010352	-	KC010310	-
<i>Lycodon butleri</i>	LSUHC 9136	Perak, Bukit Larut, Malaysia	KC010353	-	KC010311	-
<i>Lycodon butleri</i>	LSUHC 9421	Pahang, Bukit Larut, West Malaysia	KC010354	-	KC010312	-
<i>Lycodon chrysoprateros</i>	KU 307720	Cagayan, Philippines	KC010360	-	KC010318	-
<i>Lycodon dumerilii</i>	KU 305168	Dinagat Island, Philippines	KC010362	-	-	-
<i>Lycodon dumerilii</i>	KU 319989	Agusan del Sur, Philippines	KC010361	-	KC010319	-
<i>Lycodon dumerilii</i>	PNM 7751	Leyte, Philippines	KC010363	-	KC010320	-
<i>Lycodon effraenis</i>	LSUHC 9670	Kedah, Malaysia	KC010376	-	KC010328	-
<i>Lycodon fasciatus</i>	GP 2094	Guangdong, China	KC733201	KC733234	KC733218	KC733186
<i>Lycodon fasciatus</i>	GP 2097	Guangdong, China	KC733202	KC733235	KC733219	KC733187
<i>Lycodon fasciatus</i>	CAS 234875	Chin State, Myanmar	KC010365	--	-	-
<i>Lycodon fasciatus</i>	CAS 234957	Chin State, Myanmar	KC010366		-	-
<i>Lycodon flavozonatum</i>	GP 1939	Guangxi, China	KC733199	KC733232	KC733216	KC733184
<i>Lycodon flavozonatum</i>	GP 2279	Guangdong, China	KC733210	KC733243	KC733226	KC733193
<i>Lycodon flavozonatum</i>	CIB 104	-	KF732927	KF732920	KF732934	-
<i>Lycodon futsingensis</i>	GP 1627	Guangdong, China	KC733198	KC733231	KC733215	KC733183
<i>Lycodon futsingensis</i>	GP 2214	Guangdong, China	KC733205	KC733238	KC733222	KC733190
<i>Lycodon futsingensis</i>	GP 2216	Zhejiang, China	KC733206	KC733239	-	-
<i>Lycodon futsingensis</i>	GP 2226	Guangdong, China	KC733207	KC733240	KC733223	-
<i>Lycodon futsingensis</i>	GP 2245	Guangdong, China	KC733209	KC733242	KC733225	KC733192
<i>Lycodon gongshan</i>	GP 3516	Lingcan, Yunnan, China	KP901022	KP901030	-	-
<i>Lycodon gongshan</i>	GP 3546	Lingcan, Yunnan, China	KP901024	KP901032	KP901016	KP901038
<i>Lycodon gongshan</i>	GP 3547	Lingcan, Yunnan, China	KP901025	-	KP901017	KP901039

<i>Lycodon gongshan</i>	GP 3548	Lingcang, Yunnan, China	KP901026	KP901033	KP901018	KP901040
<i>Lycodon jara</i>	CAS 235387	Kachin State, Myanmar	KC010367	-	KC010322	-
<i>Lycodon laoensis</i>	FMNH 258659	Salavan, Laos	KC010368	-	KC010323	-
<i>Lycodon laoensis</i>	FMNH 262186	Dong Nai, Vietnam	KC010369	-	KC010324	-
<i>Lycodon laoensis</i>	KU 328529	Nakhon Si Thammarat, Thailand,	KC010371	-	-	-
<i>Lycodon laoensis</i>	LSUHC 8481	Pursat Province, Cambodia	KC010370	-	KC010325	-
<i>Lycodon liuchengchaoi</i>	CIB 105	-	KF732928	KF732921	KF732935	-
<i>Lycodon muelleri</i>	KU 313891	Camarines Norte, Philippines	KC010375	-	KC010327	-
<i>Lycodon muelleri</i>	CDSGS 5256	Catanduanes Island, Philippines	KC010372	-	-	-
<i>Lycodon muelleri</i>	DLSUD 031	Cavite, Philippines	KC010373	-	KC010326	-
<i>Lycodon muelleri</i>	KU 323384	Aurora, Philippines	KC010374	-	-	-
<i>Lycodon multizonatus</i>	CIB 103	-	KF732926	KF732919	KF732933	-
<i>Lycodon rufozonatum</i>	GP 133	Sichuan, China	KC733194	KC733227	KC733211	KC733179
<i>Lycodon rufozonatum</i>	GP 625	Liaoning, China	KC733196	KC733229	KC733213	KC733181
<i>Lycodon rufozonatum</i>	LSUMZ 44977	-	AF 471063	-	AF 471163	AY662611
<i>Lycodon rufozonatum</i>	CIB 098274	China	JF827672	JF 827649	JF827695	-
<i>Lycodon rufozonatum</i>	CIB 101	-	KF732924	KF732917	KF732931	-
<i>Lycodon ruhstrati</i>	GP 285	Sichuan, China	KC733195	KC733228	KC733212	KC733180
<i>Lycodon ruhstrati</i>	GP 991	Guangxi, China	KC733197	KC733230	KC733214	KC733182
<i>Lycodon ruhstrati</i>	GP 2049	Guangdong, China	KC733200	KC733233	KC733217	KC733185
<i>Lycodon ruhstrati</i>	GP 2243	Guangdong, China	KC733208	KC733241	KC733224	KC733191
<i>Lycodon ruhstrati</i>	LSUHC 4199	Hainan, China	KC010381	-	KC010332	-
<i>Lycodon ruhstrati</i>	CIB 102	-	KF732925	KF732918	KF732932	-
<i>Lycodon semicarinatus</i>	-	-	D 86118	-	-	-
<i>Lycodon semicarinatus</i>	-	-	AB008539	AB008539	-	-
<i>Lycodon semicarinatus</i>	-	Ryukyu Archipelago, Japan	AB008539	-	-	-
<i>Lycodon sp.</i>	KU 304827	Cagayan, Philippines	KC010377	-	KC010329	-

<i>Lycodon sp.</i>	KU 304844	Cagayan, Philippines	KC010378	-	KC010330	-
<i>Lycodon sp.</i>	KU 304870	Cagayan, Philippines	KC010379	-	-	-
<i>Lycodon stormi</i>	JAM 7487	Sulawesi, Indonesia	KC010380	-	KC010331	-
<i>Lycodon subcinctus</i>	KU 309447	Palawan, Philippines	KC010385	-	-	-
<i>Lycodon subcinctus</i>	GP 2191	-	KC733203	KC733236	KC733220	KC733188
<i>Lycodon subcinctus</i>	KU 327571	Palawan, Philippines	KC010384	-	KC010335	-
<i>Lycodon subcinctus</i>	KU 328531	Nakhon Ratchasim, SERS, Thailand	KC010383	-	KC010334	-
<i>Lycodon subcinctus</i>	LSUHC 5016	Pahang, Malaysia,	KC010382	-	KC010333	-
<i>Lycodon synaptor</i>	GP 2188	Yunnan, China	KC733204	KC733237	KC733221	KC733189
<i>Lycodon synaptor</i>	GP 3515	Lincang, Yunnan, China	KP901021	KP901029	-	KP901036
<i>Lycodon synaptor</i>	GP 3545	Lincang, Yunnan, China	KP901023	KP901031	KP901015	KP901037
<i>Lycodon synaptor</i>	GP 3270	Mengzi, Yunnan, China	KP901019	KP901027	-	KP901034
<i>Lycodon synaptor</i>	GP 3288	Jinping, Yunnan, China	KP901020	KP901028	KP901014	KP901035
<i>Lycodon zawi</i>	CAS 210323	-	AF 471040	-	AF471111	-
<i>Lycodon zawi</i>	CAS 239944	Rakhine State, Myanmar	KC010386	-	KC010336	-
<i>Lycodon zawi</i>	CAS 210323	Sagaing Division, Myanmar	AF 471040	-	-	-
<i>Lycodon cf. effraenis</i>	KU 328526	Nakhon Si Thammarat, Thailand	KC010364	-	KC010321	-
<i>Ahaetulla prasina</i>	KU302954	Quezon, Philippines	KC010338	-	KC010299	-
<i>Ahaetulla prasina</i>	KU 326673	Palawan, Philippines	KC010339	-	KC010300	-
<i>Boiga cynodon</i>	KU 324614	Negros Occidental, Philippines	KC010340	-	KC010301	-
<i>Boiga dendrophila</i>	-	-	AF471089	U49303	AF471128	-
<i>Boiga dendrophila</i>	KU 302957	Antique, Philippines	KC010341	-	-	-
<i>Crotaphopeltis tornieri</i>	-	-	AF471093	-	AF471112	-
<i>Dasypeltis atra</i>	CAS 201641	-	AF471065	-	AF471136	-
<i>Dasypeltis atra</i>	CAS 201641	Kabale district, Uganda	AF 471065	-	-	-
<i>Dasypeltis scabra</i>	-	-	AY235729	-	-	-
<i>Dipsadoboa unicolor</i>	CAS 201660	-	AF 471062	-	AF471139	-
<i>Dipsadoboa unicolor</i>	CAS 201660	Rukungiri District, Uganda	AF 471062	-	-	-

<i>Dispholidus typus</i>	-	-	AY 188012	U49302	AY187973	-
<i>Gonyosoma oxycephalum</i>	KU 321724	Zamboanga, Philippines	KC010343	-	KC010302	-
<i>Lampropeltis alterna</i>	Not reported	-	AF 337128	-	-	-
<i>Lampropeltis triangulum</i>	Not reported	-	AF 337134	-	-	-
<i>Oligdon maculatus</i>	KU 321699	Mindanao Island, Philippines	KC010387	-	KC010337	-
<i>Pantheropsis bairdi</i>	isolate RDZ183	-	GU 073440	-	-	-
<i>Pantheropsis obsoletus</i>	isolate RDZ264	-	GU 073446	-	-	-
<i>Pituophis catenifer</i>	JR18	Pet Trade	FJ 627819	-	-	-
<i>Pituophis deppei</i>	JR12	Pet Trade	FJ 627818	-	-	-
<i>Ptyas luzonensis</i>	TNHC 63002	Zambales, Philippines	KC010342	-	-	-
<i>Telescopus fallax</i>	LSUMZ H696t	-	AF 471043	-	AY188000	-
<i>Thelotornis capensis</i>	LSUMZ 22073	-	AF 471042	-	AF471109	-
<i>Thrasops jacksoni</i>	LSUMZ H-6819	-	AF 471044	-	DQ112084	-
<i>Toxicodryas pulverulentus</i>	CAS 220642	-	AF 471047	-	AF471118	-

CAS = California Academy of Sciences, San Francisco; CDSGS = Non-vouchered genetic samples deposited at the University of Kansas Natural History Museum; CIB = Chengdu Institute of Biology, the Chinese Academy of Sciences; DLSUD = De La Salle University Dasmariñas Reference Collection; FMNH = Field Museum of Natural History, Chicago; GP: Guo peng's collection; JAM = Jimmy A. McGuire genetic sample, deposited in Museum Zoologicum Bogoriense (National Museum of Indonesia, Cibinong, Java); JR = Javier Rodriguez Robles; KU = University of Kansas Natural History Museum; LSUHC = La Sierra University Herpetological Collections; PNM = Philippine National Museum Herpetological Collections; RDZ = reference identification acronym presented in Vandeweghe et al. (2012) (see Siler et al., 2013); TNHC = Texas Natural History Collections, University of Texas at Austin.