

Table 1. List of all species used in this study.

Family	Subfamily	Genus	Species	Collection locality or source	Sample ID	
Ingroup						
Colubridae	Pseudoxenodontinae	<i>Plagiopholis</i>	<i>Plagiopholis styani</i>	Mianyang, Sichuan, China	CHS209	
		<i>Pseudoxenodon</i>	<i>Pseudoxenodon macrops</i>	Zhangjiajie, Hunan, China	CHS257	
	Dipsadinae	<i>Thermophis</i>	<i>Thermophis baileyi</i>	Tibet, China	CHS552	
		<i>Heterodon</i>	<i>Heterodon platirhinos</i>	Private breeding	CHS696	
	Natricinae	<i>Amphiesma</i>	<i>Amphiesma stolatum</i>	Huangshan, Anhui, China	CHS110	
		<i>Sinonatrix</i>	<i>Sinonatrix annularis</i>	Zhuzhou, Hunan, China	CHS598	
		<i>Rhabdophis</i>	<i>Rhabdophis tigrinus</i>	Taipingshan, Taiwan, China	CHS640	
		<i>Xenochrophis</i>	<i>Xenochrophis flavipunctatus</i>	Yingjiang, Yunnan, China	CHS659	
		<i>Opisthotropis</i>	<i>Opisthotropis maxwelli</i>	Meizhou, Guangdong, China	CHS743	
		<i>Hebius</i>	<i>Hebius boulengeri</i>	Maoming, Guangdong, China	CHS757	
		<i>Sibynophiinae</i>	<i>Sibynophis</i>	<i>Sibynophis chinensis</i>	Maoming, Guangdong, China	CHS112
	Calamariinae	<i>Calamaria</i>	<i>Calamaria septentrionalis</i>	Huangshan, Anhui, China	CHS118	
	Ahaetuliinae	<i>Dendrelaphis</i>	<i>Dendrelaphis pictus</i>	Wuzhishan, Hainan, China	CHS138	
		<i>Ahaetulla</i>	<i>Ahaetulla prasina</i>	Yingjiang, Yunnan, China	CHS168	
		<i>Chrysopelea</i>	<i>Chrysopelea ornata</i>	Yunnan, China	CHS191	
	Colubrinae	<i>Rhadinophis</i>	<i>Rhadinophis frenata</i>	Huangshan, Anhui, China	CHS200	
		<i>Lycodon</i>	<i>Lycodon synaptor</i>	Yunnan, China	CHS693	
		<i>Oocatochus</i>	<i>Oocatochus rufodorsatus</i>	Huangshan, Anhui, China	CHS753	
		<i>Oreophis</i>	<i>Oreophis porphyraceus</i>	Huangshan, Anhui, China	CHS762	
		<i>Cyclophiops</i>	<i>Cyclophiops major</i>	Zhangjiajie, Hunan, China	CHS791	
		<i>Boiga</i>	<i>Boiga multomaculata</i>	Haikou, Hainan, China	CHS809	
		<i>Oligodon</i>	<i>Oligodon formosanus</i>	Maoming, Guangdong, China	CHS836	
		<i>Elaphe</i>	<i>Elaphe carinata</i>	Ji'an, Jiangxi, China	CHS847	
		<i>Euprepiophis</i>	<i>Euprepiophis perlacea</i>	Leshan, Sichuan, China	CHS858	
		<i>Ptyas</i>	<i>Ptyas korros</i>	Guangdong, China	RE64	
Outgroup						
Xenodermatidae			<i>Achalinus</i>	<i>Achalinus spinalis</i>	Baoxing, Sichuan, China	CHS789
Pareatidae		<i>Pareas</i>	<i>Pareas margaritophorus</i>	Fengkai, Guangdong, China	CHS699	
Viperidae		<i>Gloydius</i>	<i>Gloydius shedaoensis</i>	Dalian, Liaoning, China	CHS089	
		<i>Daboia</i>	<i>Daboia siamensis</i>	Conghua, Guangdong, China	CHS278	
		<i>Azemiops</i>	<i>Azemiops feae</i>	Renhua, Guangdong, China	CHS577	
		<i>Viridovipera</i>	<i>Viridovipera stejnegeri</i>	Lijiang, Yunnan, China	CHS723	
		<i>Ovophis</i>	<i>Ovophis monticola</i>	Emei, Sichuan, China	CHS786	
		<i>Protobothrops</i>	<i>Protobothrops jerdonii</i>	Emei, Sichuan, China	CHS787	
		<i>Sinomicrurus</i>	<i>Sinomicrurus maccllelandi</i>	Lyuchun, Yunnan, China	CHS859	
Elapidae		<i>Naja</i>	<i>Naja atra</i>	Wuzhishan, Hainan, China	CHS781	
		<i>Bungarus</i>	<i>Bungarus multicinctus</i>	Jiulianshan, Jiangxi, China	CHS800	
Homalopsidae		<i>Myrrophis</i>	<i>Myrrophis chinensis</i>	Hainan, China	CHS795	