



Table S1. Continued.

Family	Subfamily	Tribe	Terminal	12s	BDNF	CMOS	Cyt-b	NT3	COI
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas chamissonis</i>	R165/A	R165/A	R165/A	R165/A	R165/A	R165/A
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas erlandi</i>	IB-MB 5624	IB-MB 5624	IB-MB 5624	IB-MB 5624	IB-MB 5624	IB-MB 5624
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas georgeboulengeri</i>	CTMZ13750	CTMZ13750	CTMZ13750	CTMZ13750	CTMZ13750	CTMZ13750
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas georgeboulengeri</i>	CTMZ13754	CTMZ13754	CTMZ13754	CTMZ13754	CTMZ13754	CTMZ13754
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas laticeps</i>	SB0512	—	—	SB0512	SB0512	SB0512
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas livida</i>	CTMZ04172	CTMZ04172	CTMZ04172	CTMZ04172	CTMZ04172	CTMZ04172
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas mattogrossensis</i>	CTMZ10870	CTMZ10870	CTMZ10870	CTMZ10870	CTMZ10870	CTMZ10870
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas nattereri</i>	CBGM00220	CBGM00220	CBGM00220	AF236806	CBGM00220	CBGM00220
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas nattereri</i>	CTMZ00916	CTMZ00916	CTMZ00916	CTMZ00916	CTMZ00916	CTMZ00916
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas olfersii</i>	MTR 18549	MTR 18549	MTR 18549	MTR 18549	MTR 18549	MTR 18549
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas olfersii</i>	MNRJ22730	MNRJ22730	MNRJ22730	MNRJ22730	MNRJ22730	MNRJ22730
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas patagoniensis</i>	MCP 5753	MCP 5753	MCP 5753	MCP 5753	MCP 5753	MCP 5753
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas patagoniensis</i>	MACN47276	MACN47276	MACN47276	MACN47276	MACN47276	MACN47276
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas psammophidea</i>	CTMZ00274	CTMZ00274	CTMZ00274	CTMZ00274	CTMZ00274	CTMZ00274
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas simonsii</i>	CORBIDI 11238	CORBIDI 11238	CORBIDI 11238	CORBIDI 11238	CORBIDI 11238	CORBIDI 11238
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas simonsii</i>	MUSA COL-016	MUSA COL-016	MUSA COL-016	MUSA COL-016	MUSA COL-016	MUSA COL-016
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas tachymenoides</i>	MUSA COL-007	MUSA COL-007	MUSA COL-007	MUSA COL-007	MUSA COL-007	MUSA COL-007
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas trilineata</i>	CTMZ00683	CTMZ00683	CTMZ00683	CTMZ00683	CTMZ00683	CTMZ00683
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas trilineata</i>	CTMZ04935	CTMZ04935	CTMZ04935	CTMZ04935	CTMZ04935	CTMZ04935
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas varia</i>	CTMZ00202	CTMZ00202	CTMZ00202	CTMZ00202	CTMZ00202	CTMZ00202
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas viridissima</i>	CTMZ14603	CTMZ14603	CTMZ14603	CTMZ14603	CTMZ14603	CTMZ14603
Dipsadidae	Xenodontinae	Philodryadini	<i>Philodryas viridissima</i>	PMJ 254	PMJ 254	PMJ 254	PMJ 254	PMJ 254	PMJ 254
Dipsadidae	Xenodontinae	Pseudoboini	<i>Oxyrhopus petola</i>	OXPE001	CBGM00149	OXPE001	GQ334554	GQ334684	CBGM00149
Dipsadidae	Xenodontinae	Pseudoboini	<i>Pseudoboa nigra</i>	CTMZ00036	CTMZ00036	CTMZ00036	YPX136	CTMZ00036	CTMZ00036
Dipsadidae	Xenodontinae	Psomophiini	<i>Psomophis joberti</i>	CBGM00211	CBGM00211	CBGM00211	YPX137	YPX137	CBGM00211
Dipsadidae	Xenodontinae	Saphenophiini	<i>Pseudalsophis biserialis</i>	CTMZ4659	—	CTMZ4647	YPX107	YPX107	YPX107
Dipsadidae	Xenodontinae	Saphenophiini	<i>Pseudalsophis elegans</i>	AF158401	CTMZ07428	CTMZ07428	CTMZ07428	—	—
Dipsadidae	Xenodontinae	Tachymenini	<i>Pseudotomodon trigonatus</i>	CTMZ00238	—	CTMZ00238	—	CTMZ00238	CTMZ00238
Dipsadidae	Xenodontinae	Tachymenini	<i>Tachymenis peruviana</i>	CBGM00063	YPX145	CBGM00063	—	CBGM00063	CBGM00063
Dipsadidae	Xenodontinae	Tachymenini	<i>Tomodon dorsatus</i>	GQ457838	CBGM00217	GQ457897	YPX148	YPX148	YPX148
Dipsadidae	Xenodontinae	Tropidodryadini	<i>Tropidodryas serra</i>	CTMZ00717	CTMZ00717	CTMZ00717	CTMZ00717	CTMZ00717	CTMZ00717
Dipsadidae	Xenodontinae	Tropidodryadini	<i>Tropidodryas striaticeps</i>	CTMZ00185	CTMZ00185	CTMZ00185	CTMZ00185	CTMZ00185	CTMZ00185
Dipsadidae	Xenodontinae	Xenodontini	<i>Erythrolamprus epinephelus</i>	MHUAT0694	MHUAT0694	MHUAT0694	—	MHUAT0694	MHUAT0694
Dipsadidae	Xenodontinae	Xenodontini	<i>Lygophis elegantissimus</i>	CTMZ04988	CBGM00055	CBGM00055	CBGM00055	CBGM00055	CBGM00055
Dipsadidae	Xenodontinae	Xenodontini	<i>Xenodon merremii</i>	CBGM00178	CBGM00178	CBGM00178	YPX150	YPX150	CBGM00178
Dipsadidae			<i>Farancia erytrogramma</i>	CTMZ04131	YPX122	—	—	YPX122	YPX122
Dipsadidae			<i>Heterodon platirhinos</i>	CTMZ04116	YPX568	YPX568	YPX568	GU353271	—
Dipsadidae			<i>Sticophanes ningshaanensis</i>	KJ719252	—	KJ638717	KJ719252	—	KJ719252
Dipsadidae			<i>Thermophis baileyi</i>	—	—	EU496922	EU864147	—	—
Grayiidae			<i>Grayia ornata</i>	AF158434	YPX055	YPX055	YPX055	YPX055	YPX055
Natricidae			<i>Afronatrix anoscopus</i>	YPX522	YPX522	YPX522	AF420073	YPX522	YPX522
Natricidae			<i>Amphiesma stolatum</i>	YPX553	YPX553	YPX553	AF471030	YPX553	YPX553
Natricidae			<i>Natrix natrix</i>	YPX538	EU402655	AF471121	AY866541	KF234022	AY122664
Natricidae			<i>Thamnophis sirtalis</i>	YPX539	YPX539	DQ902094	AF420193	YPX539	YPX539
Sibynophiidae			<i>Scaphiodontophis annulatus</i>	—	YPX080	GQ927318	GQ927323	YPX080	—
Sibynophiidae			<i>Sibynophis collaris</i>	YPX535	YPX535	YPX535	KC000121	—	YPX535