

Appendix 3

GenBank accession numbers of species of *Chironius* and outgroup taxa included in the molecular analysis. Specimens in bold refer to the new sequences generated in this study. Country abbreviations are as follows: AR, Argentina; CR, Costa Rica; EC, Ecuador; GF, French Guiana; GY, Guyana; MX, Mexico; NI, Nicaragua; PE, Peru; SR, Suriname. Brazilian state abbreviations are as follows: AM, Amazonas; BA, Bahia; CE, Ceará; ES, Espírito Santo; GO, Goiás; MT, Mato Grosso; RJ, Rio de Janeiro; RN, Rio Grande do Norte; RS, Rio Grande do Sul; SC, Santa Catarina; SP, São Paulo; TO, Tocantins. DF = Distrito Federal.

Species	Locality	12S	16S	CMOS	ND4	Reference
<i>C. bicarinatus</i> MNRJ 15083	RJ	MH602303	MH602316	MH603957	OQ954082	Entiauspe-Neto et al. 2020; Present study
<i>C. bicarinatus</i> MNRJ 22018	RJ	OQ878354	OQ878279	OQ954085		Present study
<i>C. bicarinatus</i> MNRJ 24194	RJ	OQ878355	OQ878280	OQ954086	OQ954083	Present study
<i>C. bicarinatus</i> MNRJ 24917	RJ	OQ878356	OQ878281	OQ954087		Present study
<i>C. bicarinatus</i> MNRJ 25172	RJ	OQ878357	OQ878282	OQ954088		Present study
<i>C. bicarinatus</i> MNRJ 25957	RJ	OQ878358	OQ878283	OQ954089		Present study
<i>C. bicarinatus</i> MNRJ 26253	RJ	OQ878359	OQ878284	OQ954090		Present study
<i>C. bicarinatus</i> MNRJ 26255	RJ	MH602305	MH602318	MH603959		Entiauspe-Neto et al. 2020
<i>C. bicarinatus</i> MNRJ 26311	RJ	OQ878360	OQ878285	OQ954091		Present study
<i>C. bicarinatus</i> MNRJ 26340	RJ	OQ878361	OQ878286			Present study
<i>C. bicarinatus</i> MTR 33355	RJ	MH602304	MH602317	MH603958		Entiauspe-Neto et al. 2020
<i>C. bicarinatus</i> MTR 26905	SP	MH602306	MH602319	MH603960		Entiauspe-Neto et al. 2020
<i>C. bicarinatus</i> LCBB 18	RJ	MF673186	MF673217	MF769829		Hamdan et al. 2017
<i>C. bicarinatus</i> LCBB 21	RJ	MF673189	MF673220	MF769832		Hamdan et al. 2017
<i>C. gouveai</i> MACN 38879	AR	OQ878350	OQ878275	OQ954081		Present study
<i>C. gouveai</i> CHUFSC 3679	SC	OQ878362	OQ878287	OQ954092		Present study
<i>C. gouveai</i> MAP-T 956	SC	OQ878351	OQ878276	OQ954082		Present study
<i>C. gouveai</i> holotype CHFURG 4394	RS	MH602301	MH602314	MH603955		Entiauspe-Neto et al. 2020
<i>C. gouveai</i> ZFMK 103132	RS	MH602302	MH602315	MH603956		Entiauspe-Neto et al. 2020
<i>Chironius</i> sp. nov. MHNCE-R 59	CE	OQ878352	OQ878277	OQ954083		Present study
<i>Chironius</i> sp. nov. MNRJ 27803	CE	OQ878353	OQ878278	OQ954084	OQ954081	Present study
<i>Chironius</i> sp. nov. MNRJ 27804	CE	OQ878364	OQ878289	OQ954094	OQ954084	Present study
<i>Chironius</i> sp. nov. MHNCE-R 577	CE	OQ878363	OQ878288	OQ954093		Present study
<i>C. brazili</i> LCBB 14	SP	MF673182	MF673213	MF769825		Hamdan et al. 2017
<i>C. brazili</i> LCBB 15	SP	MF673183	MF673214	MF769826		Hamdan et al. 2017

Species	Locality	12S	16S	CMOS	ND4	Reference
<i>C. brazili</i> LCBB 16	SP	MF673184	MF673215	MF769827		Hamdan et al. 2017
<i>C. brazili</i> LCBB 17	RS	MF673185	MF673216	MF769828		Hamdan et al. 2017
<i>C. brazili</i> LCBB 19	DF	MF673187	MF673218	MF769830		Hamdan et al. 2017
<i>C. diamantina</i> LCBB 7	BA	MF673176	MF673206	MF769818		Hamdan et al. 2017
<i>C. diamantina</i> LCBB 8	BA		MF673207	MF769819		Hamdan et al. 2017
<i>C. diamantina</i> LCBB 9	BA	MF673177	MF673208	MF769820		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 1	RN	MF673170	MF673201	MF769812		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 2	RN	MF673171	MF673202	MF769813		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 3	RN	MF673172	MF673203	MF769814		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 4	RN	MF673173	MF673204	MF769815		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 5	RN	MF673174	MF673205	MF769816		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 11	RN	MF673179	MF673210	MF769822		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 13	CE	MF673181	MF673212	MF769824		Hamdan et al. 2017
<i>C. flavolineatus</i> LCBB 31	GO	MF673198	MF673225	MF769840		Hamdan et al. 2017
<i>C. foveatus</i> MTR 12348	ES	MH602312	MH602326	MH603965		Entiauspe-Neto et al. 2020
<i>C. foveatus</i> MTR 12414	ES	MH602313	MH602327	MH603966		Entiauspe-Neto et al. 2020
<i>C. foveatus</i>		HM565748	HM582210	HQ157814		Klaczko et al. 2014
<i>C. foveatus</i> LCBB 25	RJ	MF673192		MF769836		Hamdan et al. 2017
<i>C. foveatus</i> LCBB 29	RJ	MF673196	MF673224			Hamdan et al. 2017
<i>C. laurenti</i>	MT	HM565752		HQ157818		Klaczko et al. 2014
<i>C. multiventris</i> CORBIDI 13928	PE	MK086719	MK086618	MK086818	MK086917	Torres-Carvajal et al. 2019a
<i>C. multiventris</i> CORBIDI 9308	PE	MK086716	MK086615	MK086815	MK086914	Torres-Carvajal et al. 2019a
<i>C. quadricarinatus</i> MZUSP 14265	TO	HM565755				Klaczko et al. 2014
<i>C. quadricarinatus</i> IBSP 70531				HQ157820		Klaczko et al. 2014
<i>C. quadricarinatus</i> LCBB 6	BA	MF673175		MF769817		Hamdan et al. 2017
<i>C. quadricarinatus</i> LCBB 27	SP	MF673194		MF769837		Hamdan et al. 2017
<i>C. flavopictus</i> QCAZ 5750	EC	MK086657	MK086554	MK086756	MK086857	Torres-Carvajal et al. 2019a
<i>C. flavopictus</i> QCAZ 5863	EC	MK086658	MK086555	MK086757	MK086858	Torres-Carvajal et al. 2019a
<i>C. flavopictus</i> QCAZ 9162	EC	MK086659	MK086556	MK086758	MK086859	Torres-Carvajal et al. 2019a
<i>C. flavopictus</i> QCAZ 11239	EC	MK086660	MK086557	MK086759	MK086860	Torres-Carvajal et al. 2019a
<i>C. exoletus</i> AMNH 152259	GY		KX660154	KX660293	KX660558	Figuroa et al. 2016
<i>C. exoletus</i> IRSNB 18086	GF	MK086640	MK086537	MK086739	MK086840	Torres-Carvajal et al. 2019a
<i>C. maculoventris</i> LCBB 23	RS	MF673190	MF673221	MF769834		Hamdan et al. 2017
<i>C. carinatus</i> MZUSP 14295	AM	HM565745		HQ157810		Klaczko et al. 2014
<i>C. monticola</i> QCAZ 5184	EC	MK086706	MK086605	MK086807	MK086906	Torres-Carvajal et al. 2019a

Species	Locality	I2S	I6S	CMOS	ND4	Reference
<i>C. monticola</i> QCAZ 6374	EC	MK086708	MK086607	MK086809	MK086908	Torres-Carvajal et al. 2019a
<i>C. monticola</i> QCAZ 7267	EC	MK086711	MK086610	MK086810	MK086909	Torres-Carvajal et al. 2019a
<i>C. monticola</i> QCAZ 7991	EC	MK086712	MK086611	MK086811	MK086910	Torres-Carvajal et al. 2019a
<i>C. monticola</i> QCAZ 8069	EC	MK086713	MK086612	MK086812	MK086911	Torres-Carvajal et al. 2019a
<i>C. laevicollis</i> IBSP 71949		HM565751				Klaczko et al. 2014
<i>C. laevicollis</i>			HM582213			Klaczko et al. 2014
<i>C. laevicollis</i> IBSP 72012				HQ157817		Klaczko et al. 2014
<i>C. laevicollis</i> LCBB 20	RJ	MF673188	MF673219	MF769831		Hamdan et al. 2017
<i>C. scurrulus</i> AMNH 152263	GY		KX660156	KX660295	KX660560	Figueroa et al. 2016
<i>C. scurrulus</i> LSUMNS 8940	SR		KX660265	KX660405	KX660651	Figueroa et al. 2016
<i>C. scurrulus</i> IRSNB 18018	GY	MK086727	MK086626	MK086826	MK086925	Torres-Carvajal et al. 2019a
<i>C. leucometapus</i> CORBIDI 15562	PE	MK086694	MK086593	MK086795	MK086894	Torres-Carvajal et al. 2019a
<i>C. fuscus</i> ROM 39442	GY	MK086686	MK086585	MK086787	MK086886	Torres-Carvajal et al. 2019a
<i>C. fuscus</i> ROM 42601	GY	MK086687	MK086586	MK086788	MK086887	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 5046	EC	MK086688	MK086587	MK086789	MK086888	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 5634	EC	MK086689	MK086588	MK086790	MK086889	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 5733	EC	MK086690	MK086589	MK086791	MK086890	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 8026	EC	MK086691	MK086590	MK086792	MK086891	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 8500	EC	MK086692	MK086591	MK086793	MK086892	Torres-Carvajal et al. 2019a
<i>C. grandisquamis</i> QCAZ 11054	EC	MK086693	MK086592	MK086794	MK086893	Torres-Carvajal et al. 2019a
<i>C. challenger</i> IRSNB 2659	GY	MK086637	MK086534	MK086736	MK086837	Torres-Carvajal et al. 2019a
<i>C. challenger</i> ROM 42603	GY	MK086638	MK086535	MK086737	MK086838	Torres-Carvajal et al. 2019a
OUTGROUPS						
<i>Dendrophidion brunneum</i> QCAZ 5037	EC	MK086732	MK086631	MK086831	MK086930	Torres-Carvajal et al. 2019a
<i>D. dendrophis</i> QCAZ 13824	EC		MK086632	MK086832		Torres-Carvajal et al. 2019a
<i>D. graciliverpa</i> QCAZ 10561	EC	MK086733	MK086633	MK086833	MK086931	Torres-Carvajal et al. 2019a
<i>D. percarinatum</i>		HM565757	HM582217	HQ157822		Klaczko et al. 2014
<i>D. percarinatum</i> MVZ 204098	CR		KX660291	KX660431	KX660667	Figueroa et al. 2016
<i>D. percarinatum</i> MVZ 204099	CR			KX660429	KX660665	Figueroa et al. 2016
<i>Dipsas catesbyi</i> QCAZ 13558	EC	MK086734	MK086634	MK086834	MK086932	Torres-Carvajal et al. 2019a
<i>Drymarchon corais</i>		HM565758	HM582218	HQ157823		Klaczko et al. 2014
<i>Drymobius rhombifer</i>		HM565761	HM582220	GQ927313		Klaczko et al. 2014; Pyron et al. 2011
<i>Drymoluber brazili</i> MZUSP 14298		HM565760		HQ157825		Klaczko et al. 2014
<i>D. brazili</i>			HM582219			Klaczko et al. 2014
<i>D. dichrous</i>		HM565759	HM582221	HQ157824		Klaczko et al. 2014
<i>D. dichrous</i> QCAZ 13568	EC	MK086735	MK086635	MK086835	MK086933	Torres-Carvajal et al. 2019a

Species	Locality	12S	16S	CMOS	ND4	Reference
<i>D. dichrous</i> QCAZ 13827	EC		MK086636	MK086836		Torres-Carvajal et al. 2019a
<i>Leptophis ahaetulla</i> MZUSP 14269		HM565762				Klaczko et al. 2014
<i>L. ahaetulla</i> CAS 231717				GQ927316		Pyron et al. 2011
<i>L. ahaetulla</i>			HM582222			Klaczko et al. 2014
<i>L. depressirostris</i> LSUMNS 146385	NI		KX660270	KX660407		Figueroa et al. 2016
<i>L. depressirostris</i> YPM 16868	CR			KX660331	KX660592	Figueroa et al. 2016
<i>L. diplotropis</i> LSUMNS 6328	MX		KX660271	KX660408		Figueroa et al. 2016
<i>Mastigodryas boddaerti</i> IBSP 279		HM565764				Klaczko et al. 2014
<i>M. boddaerti</i>			HM582224	HQ157828		Klaczko et al. 2014
<i>Oxybelis aeneus</i>		HM565765	HM582225	HQ157829		Klaczko et al. 2014
<i>Oxybelis fulgidus</i>		AF158432	HM582226	HQ157830		Klaczko et al. 2014; Vidal et al. 2000
<i>Spilotes pullatus</i> MZUSP 11969		HM565768		HQ157832		Klaczko et al. 2014
<i>Spilotes pullatus</i>			HM582228			Klaczko et al. 2014