

Supplemental Table 2. GenBank numbers of species analyzed for Neotropical cichlid fossil as shown in Supplemental Figures 1-2

Terminal Analyzed	ND4	Cyt-b	I6S	RAG2	S7	COI	4C4	H3	M27
Embiotocidae	N/A	AF159336	EU888021	N/A	N/A	N/A	U70346	EU888022	U63676
<i>Etroplus</i>	N/A	AF370625	AY263830	AY279874	DQ119250	AY263858	AY662892	AY662818	U63672
<i>Ptychochromis</i>	N/A	AF370630	AY662722	AY279873	N/A	AY662774	AY662844	AY662919	N/A
<i>Astatotilapia</i>	N/A	AF015029	EU888023	N/A	N/A	EU888024	EU888025	EU888026	U63659
<i>Hemichromis</i>	GU736996	AF015017	AY662738	N/A	GU736678	AY662793	AY662866	AY662945	N/A
<i>Heterochromis</i>	GU736993	AF370636	AF948996	GU736811	GU736676	EU888027	AF113060	EU888028	AF112598
<i>Sarotherodon</i>	N/A	AJ844960	EU888029	N/A	N/A	EU888030	EU888031	EU888032	N/A
<i>Tylochromis</i>	N/A	AF370639	AY662743	N/A	N/A	AY662798	AY662874	AY662953	U63656
<i>Acarichthys</i>	AY566768	AF370653	AY662726	AY566733	GU736686	AY662778	AY662848	AY662923	AF112621
<i>Acaronia</i>	GU737029	AF370666	AY263835	GU736845	EF432989	AY263862	AY662849	AY662924	AF112614
<i>Aequidens</i> (sensu stricto)	GU737016	AY050609	EU888036	GU736829	EF432971	EU888037	AF113078	EU888038	AF112616
<i>"Aequidens" hoehnei</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Andinoacara pulcher</i>	GU737021	EF432943	AY294128	GU736834	EF432979	EU888039	N/A	EU888040	N/A
<i>Andinoacara rivulatus</i>	GU737020	EF432935	EU888041	GU736833	EF432977	EU888042	N/A	EU888043	N/A
<i>Apistogramma</i>	AY566787	AF370656	AY662727	AY566749	DQ119272	AY662779	AY662850	AY662925	AF112633
<i>Astronotus</i>	AY566776	AB018987	AY263832	AY566740	GU736683	AY263859	AY662851	AY662926	U63668
<i>Australoheros</i>	GU737032	AY998666	EU888095	GU736848	GU736752	EU888096	N/A	EU888097	N/A
<i>Biotodoma</i>	AY566784	AF370657	EU888074	AY566726	GU736693	EU888075	EU888076	EU888077	AF112620
<i>Biotocetus</i>	AY566792	GU736929	EU888064	AY566754	GU736694	EU888065	N/A	EU888066	N/A
<i>Bujurquina</i>	N/A	AF370668	DQ119186	GU736835	DQ119273	DQ119215	DQ119244	EU888044	AF112615
<i>Caquetaia</i>	GU737070	AF370671	EU888098	GU736885	DQ836805	EU888099	EU888100	EU888101	AF112609
<i>Chaetobranchius</i>	GU736998	AF370652	EU8880333	GU736812	GU736684	EU888034	AF113080	EU888035	AF112618
<i>Cichla</i>	AY566793	AF370644	AY662729	AY566755	GU736680	AY662781	AY662853	AY662928	U63666
<i>Cichlasoma</i> (sensu stricto)	AY566778	AF145128	AY263836	AY566747	EF432966	AY263863	AF113075	AY662929	AF112613
<i>"Cichlasoma" festae</i>	GU737031	AY050610	DQ119187	GU736847	DQ836812	DQ119216	DQ119245	EU888044	N/A
<i>Cleithracara</i>	GU737024	AY050614	EU888045	GU736839	EF432993	EU888046	N/A	EU888047	N/A
<i>Crenicara</i>	N/A	AF370655	EU888067	AY566742	GU736695	EU888068	EU888069	EU888070	AF112628
<i>Crenicichla</i>	AY566785	AF370646	AY263837	AY566750	GU736697	AY263860	AY662854	AY662930	AF112625
<i>Dicrossus</i>	AY566767	GU736938	AY662730	AY566731	GU736704	AY662782	AY662855	AY662931	N/A
<i>Geophagus</i> (sensu stricto)	AY566763	AF370658	EU888078	AY566727	GU736706	N/A	AF113093	EU888079	AF112631
<i>Geophagus brasiliensis</i>	AY566766	AF370659	EU888080	AY566732	GU736713	EU888081	EU888082	EU888083	AF112626
<i>Geophagus steindachneri</i>	AY566765	AF370660	DQ119188	AY566730	DQ119275	DQ119217	DQ119246	EU888084	N/A
<i>Guianacara</i>	AY566762	AF370654	EU888061	AY566730	GU736715	EU888062	AF113084	EU888063	AF112622
<i>Gymnogeophagus</i>	AY566775	AF370661	EU888085	AY566738	GU736718	EU888086	EU888087	EU888088	AF112623
<i>Heroina</i>	GU737044	AY998670	GU737198	GU736860	N/A	N/A	N/A	N/A	N/A
<i>Heros</i>	GU737034	DQ010102	DQ119189	GU736849	DQ119276	DQ119218	DQ119247	EU888103	AF112605
<i>Hoplarchus</i>	AY566789	AF370673	EU888104	AY566760	GU736757	EU888105	EU888106	EU888107	AF112612
<i>Hypselecara</i>	GU737037	AY050612	DQ119190	GU736853	DQ119277	DQ119219	DQ119248	EU888108	AF112611
<i>Krobia</i>	GU737025	EF432931	EU888048	GU736840	EF432961	EU888049	N/A	EU888050	N/A
<i>Laetacara</i>	GU737026	AY050608	EU888051	GU736842	EF433001	EU888052	AF113079	EU888053	AF112617
<i>Mazarunia</i>	GU737012	GU736960	GU737165	GU736825	GU736729	N/A	N/A	N/A	N/A
<i>Mesonauta</i>	AY566782	DQ494392	EU888109	AY566748	DQ836809	EU888110	AF113066	EU888111	AF112604
<i>Mikrogeophagus</i>	AY566764	GU736953	EU888089	AY566729	N/A	EU888090	AF113089	EU888091	AF112627
<i>Nannacara</i> (Ivanacara)	N/A	EF432946	EF432903	N/A	EF432995	N/A	N/A	N/A	N/A
<i>Nannacara</i> (sensu stricto)	N/A	EF432921	EU888054	GU736843	EF432991	EU888055	N/A	EU888056	N/A
<i>Pterophyllum</i>	GU737039	AF370676	AY662732	GU736855	GU736761	N/A	AY662856	AY662933	AF112603
<i>Retroculus</i>	AY566774	AF370641	AY662733	AY566737	GU736685	AY662784	AY662857	AY662934	AF112600
<i>Satanoperca</i>	AY566783	AB018986	AY263838	AY566745	GU736723	AY263861	AY6629351	AY662935	N/A
<i>Symphysodon</i>	GU737041	AY840119	EU888112	GU736857	GU736763	EU888113	AF113069	N/A	AF112607
<i>Tahuantinsuyoa</i>	GU737028	EF432915	EU888057	GU736844	EF432983	EU888058	EU888059	EU888060	N/A
<i>Uaru</i>	GU737042	AF370678	DQ119191	GU736859	DQ119278	DQ119221	DQ119249	EU888116	AF112606