

**TABLE S1** | All sequences were submitted to GenBank and can be located under the accession numbers MZ558466–MZ558474 (in bold). Extracted sequences generated by Genbank correspond to references with letters beginning with: KF: Thomaz *et al.* (2015); JN: Casciotta *et al.* (2012); MZ: present work. Asterisk represent outgroup species.

Species	Catalog number	Specimen tag	Contry: State, Locality (Basin)	12S	16S	COI	MYH6	ptchd1	RAG1	RAG2
<i>Diapoma alburnum</i>	MCP 21291	MCP 21291	Brazil: Rio Grande do Sul, rio Jacui (Laguna dos Patos)	KF209507	KF209830	KF210121	KF210389		KF210873	KF211106
<i>Diapoma alburnum</i>	UFRGS 10753	TEC 1390	Brazil: Rio Grande do Sul, Mostardas (Tramandai)	KF209508	KF209831	KF210122	KF210390			KF211107
<i>Diapoma alburnum</i>	UFRGS 12471	TEC 1279	Brazil: Rio Grande do Sul, São Lourenço do Sul (Laguna dos Patos)	KF209509	KF209832	KF210123	KF210391	KF210657	KF210874	KF211108
<i>Diapoma alburnum</i>	UFRGS 12593	TEC 1269	Brazil: Santa Catarina, Meleiro (Araranguá)	KF209510	KF209833	KF210124	KF210392	KF210658		KF211109
<i>Diapoma alburnum</i>	UFRGS 15029	TEC 1810A	Brazil: Santa Catarina, Celso Ramos, rio Canoas (Uruguay)		KF209834		KF210393	KF210659	KF210875	KF211110
<i>Diapoma alburnum</i>	UFRGS 15029	TEC 1810B	Brazil: Santa Catarina, Celso Ramos, rio Canoas (Uruguay)	KF209511	KF209835		KF210394		KF210876	
<i>Diapoma alegretense</i>	UFRGS 10008	TEC 714	Brazil: (Uruguay)	KF209512	KF209836	KF210125	KF210395			
<i>Diapoma alegretense</i>	UFRGS 10008	TEC 8A	Brazil: (Uruguay)	KF209513	KF209837	KF210126	KF210396			
<i>Diapoma dicropotamicus</i>	UFRGS 12727	TEC 1465C	Brazil: Rio Grande do Sul, Nova Roma do Sul (Laguna dos Patos)	KF209514	KF209838	KF210127	KF210397			KF211111
<i>Diapoma dicropotamicus</i>	UFRGS 12727	TEC 1465D	Brazil: Rio Grande do Sul, Nova Roma do Sul (Laguna dos Patos)	KF209515	KF209839	KF210128	KF210398	KF210660	KF210877	
<i>Diapoma dicropotamicus</i>	UFRGS 12727	TEC 1465E	Brazil: Rio Grande do Sul, Nova Roma do Sul (Laguna dos Patos)	KF209516	KF209840	KF210129	KF210399	KF210661		KF211112
<i>Diapoma guarani</i>	UFRGS 12647	TEC 1379A	Brazil: Rio Grande do Sul, Uruguaiana, barragem Sanchuri (Uruguay)	KF209666	KF209996		KF210539	KF210767	KF210974	KF211231
<i>Diapoma guarani</i>	UFRGS 12647	TEC 1379B	Brazil: Rio Grande do Sul, Uruguaiana, barragem Sanchuri (Uruguay)	KF209667	KF209997		KF210540		KF210975	KF211232
<i>Diapoma itaimbe</i>	UFRGS 12603	TEC 1303	Brazil: Rio Grande do Sul, Torres (Mampituba)	KF209517	KF209841	KF210130	KF210400			KF211113
<i>Diapoma itaimbe</i>	UFRGS 12651	TEC 1383	Brazil: Rio Grande do Sul, Praia Grande (Mampituba)	KF209518	KF209842	KF210131	KF210401			
<i>Diapoma itaimbe</i>	UFRGS 12717	TEC 1453	Brazil: Rio Grande do Sul, Praia Grande (Mampituba)	KF209519	KF209843	KF210132	KF210402			
<i>Diapoma lepiclastum</i>	UFRGS 15020	TEC 1801A	Brazil: Rio Grande do Sul, Erechim, arroio Dourado (Uruguay)				KF210403	KF210662	KF210878	KF211116
<i>Diapoma lepiclastum</i>	UFRGS 15020	TEC 1801B	Brazil: Rio Grande do Sul, Erechim, arroio Dourado (Uruguay)	KF209520			KF210404	KF210663	KF210879	KF211117
<i>Diapoma obi</i>	unknown catalog	CY5	Uruguay: (Paraná)	JN712193	JN712199	JN712187				
<i>Diapoma obi</i>	unknown catalog	CY6	Uruguay: (Paraná)	JN712194	JN712200	JN712188				
<i>Diapoma obi</i>	unknown catalog	TEC 1824	Argentina: (Paraná)	KF209605	KF209930		KF210478	KF210730		
<i>Diapoma pampeana</i>	UFRGS 12642	TEC 1377A	Brazil: Rio Grande do Sul, Bagé (Negro)		<b>MZ558467</b>	<b>MZ558468</b>				<b>MZ558469</b>
<i>Diapoma pampeana</i>	UFRGS 12642	TEC 1377B	Brazil: Rio Grande do Sul, Bagé (Negro)			<b>MZ558470</b>				<b>MZ558471</b>
<i>Diapoma potamohadros</i>	UFRGS 27622	TEC 1827A	Brazil: Paraná, barragem UHE Salto Osório (Iguaçu)	KF209521	KF209844	KF210134	KF210405	KF210664	KF210880	



TABLE S1 | (Continued)

Species	Catalog number	Specimen tag	Contry: State, Locality (Basin)	12S	16S	COI	MYH6	ptchd1	RAG1	RAG2
<i>Diapoma potamohadros</i>	UFRGS 27622	TEC 1827B	Brazil: Paraná, barragem UHE Salto Osório (Iguaçu)	KF209522	KF209845	KF210135	KF210406	KF210665	KF210881	
<i>Diapoma pyrrhopteryx</i>	MCP 44377	MCP 44377	Brazil: Rio Grande do Sul, Erechim (Uruguay)	KF209528	KF209851	KF210140	KF210412	KF210668	KF210884	KF211121
<i>Diapoma speculiferum</i>	UFRGS 12889	TEC 1069	Brazil: Rio Grande do Sul, Pantano Grande, rio Pardo (Laguna dos Patos)	KF209529	KF209852	KF210141	KF210413	KF210669	KF210885	KF211122
<i>Diapoma speculiferum</i>	UFRGS 12890	TEC 1084	Brazil: Rio Grande do Sul, Pantano Grande, rio Pardo (Laguna dos Patos)	KF209530	KF209853	KF210142	KF210414	KF210670	KF210886	KF211123
<i>Diapoma terofali</i>	UFRGS 12891	TEC 339	Uruguay: Riviera, Tacuarembó (Negro)	KF209531	KF209854	KF210143	KF210415	KF210671	KF210887	
<i>Diapoma terofali</i>	UFRGS 12892	TEC 392	Uruguay: Paysandu (Uruguay)	KF209532	KF209855	KF210144	KF210416	KF210672	KF210888	KF211125
<i>Diapoma thauma</i>	UFRGS 20044	TEC 5420B	Brazil: Rio Grande do Sul, Carará, Rio dos Sinos (Laguna dos Patos)			<b>MZ558474</b>				
<i>Diapoma thauma</i>	UFRGS 20044	TEC 5420H	Brazil: Rio Grande do Sul, Carará, Rio dos Sinos (Laguna dos Patos)		<b>MZ558472</b>			<b>MZ558473</b>		
<i>Diapoma tipiaia</i>	UFRGS 15015	TEC 1796A	Brazil: Rio Grande do Sul, Julio Castillo (Laguna dos Patos)	KF209523	KF209846		KF210407	KF210666	KF210882	KF211118
<i>Diapoma tipiaia</i>	UFRGS 15015	TEC 1796B	Brazil: Rio Grande do Sul, Julio Castillo (Laguna dos Patos)	KF209524	KF209847	KF210136	KF210408	KF210667	KF210883	
<i>Diapoma uruguayense</i>	UFRGS 10962	TEC 393	Uruguay: Paysandu (Uruguay)	KF209525	KF209848	KF210137	KF210409			
<i>Diapoma uruguayense</i>	UFRGS 11644	TEC 457	Uruguay: Artigas (Uruguay)	KF209526	KF209849	KF210138	KF210410			
<i>Diapoma uruguayense</i>	UFRGS 12401	TEC 592	Uruguay: Artigas (Uruguay)	KF209527	KF209850	KF210139	KF210411			
<i>Bryconamericus exodon*</i>	UFRGS 13571	TEC 1693	Brazil: Mato Grosso, Pocone, rio Cuiabá (Paraguay)	KF209412		<b>MZ558466</b>	KF210308			KF211031
<i>Bryconamericus iheringii*</i>	UFRGS 12473	TEC 1281	Brazil: Rio Grande do Sul, São Lourenço (Laguna dos Patos)	KF209417	KF209739	KF210061	KF210310		KF210811	
<i>Bryconamericus iheringii*</i>	UFRGS 12479	TEC 1287	Brazil: Rio Grande do Sul, Camaquã (Laguna dos Patos)	KF209418	KF209740	KF210062	KF210311		KF210812	KF211037
<i>Bryconamericus leptorhynchus*</i>	UFRGS 15031	1812A	Brazil: Santa Catarina, Campos Novos, rio Ibicuí (Uruguay)	KF209606	KF209931	KF210192	KF210479	KF210731	KF210938	
<i>Bryconamericus leptorhynchus*</i>	UFRGS 15031	1812	Brazil: Santa Catarina, Campos Novos, rio Ibicuí (Uruguay)	KF209607	KF209932	KF210193	KF210480	KF210732	KF210939	
<i>Bryconamericus lethostigmus*</i>	MCP 23595	MCP 23595	Brazil: Santa Catarina, Ermo, rio Itoupeva (Araranguá)	KF209670	KF210000	KF210249	KF210543		KF210977	
<i>Bryconamericus lethostigmus*</i>	UFRGS 12537	TEC 1239	Brazil: Rio Grande do Sul, Praia Grande, Mãe dos Homens (Mampituba)	KF209668	KF209998	KF210247	KF210541			
<i>Bryconamericus lethostigmus*</i>	UFRGS 12637	TEC 1372	Brazil: Santa Catarina, Praia Grande, rio Leão (Mampituba)	KF209669	KF209999	KF210248	KF210542	KF210768	KF210976	
<i>Bryconamericus microcephalus*</i>	MCP 19606	MCP 19606	Brazil: São Paulo, Iporanga, rio Betari (Ribeira de Iguape)	KF209428	KF209749	KF210067	KF210318		KF210819	
<i>Bryconamericus patriciae*</i>	UFRGS 12400	TEC 511	Brazil: Santa Catarina, Bom Jardim da Serra, rio Baú/Pelotas (Uruguay)	KF209430	KF209751	KF210069	KF210320	KF210601	KF210822	KF211048



TABLE S1 | (Continued)

Species	Catalog number	Specimen tag	Contry: State, Locality (Basin)	12S	16S	COI	MYH6	ptchd1	RAG1	RAG2
<i>Bryconamericus patriciae</i> *	UFRGS 12894	TEC 716	Brazil: Santa Catarina, Bom Jardim da Serra, rio Baú/Pelotas (Uruguay)	KF209431	KF209752	KF210070	KF210321		KF210823	KF211049
<i>Bryconamericus rubropictus</i> *	no catalog number	TEC 1823	Argentina: (Paraná)	KF209438	KF209759	KF210075	KF210328	KF210607	KF210829	
<i>Bryconamericus indefessus</i> *	no catalog number	TEC 1826	Argentina: Bermejo (Paraná)	KF209665	KF209995			KF210766		KF211229
<i>Piabarchus stramineus</i> *	UFRGS 12897	TEC 1037	Brazil: Minas Gerais, Várzea de Palma (São Francisco)	KF209453	KF209776	KF210083	KF210340		KF210842	KF211069
<i>Piabarchus stramineus</i> *	UFRGS 12898	TEC 1049	Brazil: Minas Gerais, Buritizeiro (São Francisco)	KF209454	KF209777	KF210084	KF210341	KF210621	KF210843	KF211070
<i>Piabina argentea</i> *	UFRGS 12887	TEC 1032	Brazil: Minas Gerais, Bocaiuva (São Francisco)	KF209673	KF210004	KF210253	KF210546			
<i>Piabina argentea</i> *	UFRGS 12888	TEC 1021A	Brazil: Minas Gerais, João Pinheiro (São Francisco)		KF210005	KF210254	KF210547		KF210980	KF211238

## Neotropical Ichthyology



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