

TABLE S2 | List of COI sequences data downloaded from BOLD system for the *Astyanax* specimens clustered in clade 1, showing their respective ID, species name, and sampling latitude, longitude, river, major basin and information for the results obtained using BIN, ABGD and GMYC methods for delimitation species approaches. The nodes match those in the Fig. 2B. (*) *Astyanax* sp. individuals obtained from BOLD named and numbered by collection site hereafter.

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
Node 1								
BAST121-12	<i>Astyanax</i> aff. <i>intermedius</i>	-22.831	-44.865	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
BAST1518-14	<i>Astyanax</i> aff. <i>intermedius</i>	-22.486	-44.924	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
BAST961-13	<i>Astyanax</i> aff. <i>intermedius</i>	-22.486	-44.924	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
BAST120-12	<i>Astyanax</i> aff. <i>intermedius</i>	-22.831	-44.865	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
BAST623-13	<i>Astyanax</i> aff. <i>intermedius</i>	-22.831	-44.865	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
GBGCA3265-13	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	1
GBGCA3263-13	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	1
BAST164-12	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	1
BAST081-12	<i>Astyanax bockmanni</i>	-23.15	-48.267	Tietê	Paraná	BIN AAC5910	1	1
GBGCA3264-13	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	1
GBGCA3262-13	<i>Astyanax bockmanni</i>	-	-	Paraná	Paraná	BIN AAC5910	1	1
BAST547-12	<i>Astyanax</i> cf. <i>fasciatus</i>	-23.524	-45.792	Paraná	Paraná	BIN AAC5910	1	1
FUPR1102-10	<i>Astyanax paranae</i>	-23.526	-45.819	Paraná	Paraná	BIN AAC5910	1	1
BAST1209-13	<i>Astyanax scabripinnis</i>	-23.769	-46.324	Paraná	Paraná	BIN AAC5910	1	1
BAST519-12	<i>Astyanax scabripinnis</i>	-22.486	-44.924	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	1
BAST1074-13	<i>Astyanax</i> sp. Piratini*	-28.783	-54.449	Piratini	Paraná	BIN AAC5910	1	1
BAST1326-13	<i>Astyanax</i> aff. <i>intermedius</i>	-22.486	-44.924	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	2
BAST622-13	<i>Astyanax</i> aff. <i>intermedius</i>	-22.831	-44.865	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	2
BAST751-13	<i>Astyanax</i> aff. <i>bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	2
BAST117-12	<i>Astyanax bockmanni</i>	-22.869	-48.368	Paraná	Paraná	BIN AAC5910	1	2
BAST621-13	<i>Astyanax bockmanni</i>	-22.872	-48.374	Tietê	Paraná	BIN AAC5910	1	2
BAST548-12	<i>Astyanax</i> cf. <i>fasciatus</i>	-23.524	-45.792	Paraná	Paraná	BIN AAC5910	1	2
FUPR1105-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-23.523	-45.889	Paraná	Paraná	BIN AAC5910	1	2
BAST221-12	<i>Astyanax scabripinnis</i>	-22.657	-44.764	Paraná	Paraná	BIN AAC5910	1	2
BAST526-12	<i>Astyanax scabripinnis</i>	-21.523	-50.182	Tietê	Paraná	BIN AAC5910	1	2
BAST527-12	<i>Astyanax scabripinnis</i>	-21.523	-50.182	Alto Alegre	Paraná	BIN AAC5910	1	2
BAST960-13	<i>Astyanax</i> sp. Acre*	-9.942	-67.896	Acre	Amazon	BIN AAC5910	1	2
BAST1325-13	<i>Astyanax</i> aff. <i>intermedius</i>	-22.584	-45.169	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	3
BAST753-13	<i>Astyanax</i> aff. <i>bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	3
BAST750-13	<i>Astyanax</i> aff. <i>bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	3
BAST752-13	<i>Astyanax</i> aff. <i>bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	3
BAST854-13	<i>Astyanax bockmanni</i>	-23.75	-46.165	Itatinga	Paraná	BIN AAC5910	1	3
FBCRB373-09	<i>Astyanax paranae</i>	-	-	Paraná	Paraná	BIN AAC5910	1	3
FBCRB372-09	<i>Astyanax paranae</i>	-	-	Paraná	Paraná	BIN AAC5910	1	3
FBCRB376-09	<i>Astyanax paranae</i>	-	-	Paraná	Paraná	BIN AAC5910	1	3
BAST749-13	<i>Astyanax</i> sp. Paranapanema*	-22.647	-53.077	Paranapanema	Paraná	BIN AAC5910	1	3



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
BAST1121-13	<i>Astyanax paranae</i>	-22.898	-48.389	Tietê	Paraná	BIN AAC5910	1	4
FUPR1100-10	<i>Astyanax paranae</i>	-22.890	-48.489	Paraná	Paraná	BIN AAC5910	1	4
GBMNA17304-19	<i>Astyanax paranae</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	4
FUPR1104-10	<i>Astyanax paranae</i>	-22.785	-48.481	Paraná	Paraná	BIN AAC5910	1	4
FUPR1099-10	<i>Astyanax paranae</i>	-22.890	-48.489	Paraná	Paraná	BIN AAC5910	1	4
FUPR1103-10	<i>Astyanax paranae</i>	-22.785	-48.481	Paraná	Paraná	BIN AAC5910	1	4
GBMIN125875-17	<i>Astyanax paranae</i>	-22.899	-48.386	Tietê	Paraná	-	1	4
FUPR1098-10	<i>Astyanax paranae</i>	-22.890	-48.489	Paraná	Paraná	BIN AAC5910	1	4
BAST1343-13	<i>Astyanax</i> sp. Paraiba do Sul*	-22.654	-44.581	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	4
FUPR1115-10	<i>Astyanax paranae</i>	-25.377	-49.805	Paraná	Paraná	BIN AAC5910	1	5
FUPR1116-10	<i>Astyanax paranae</i>	-25.377	-49.805	Paraná	Paraná	BIN AAC5910	1	5
FUPR1117-10	<i>Astyanax paranae</i>	-25.377	-49.805	Paraná	Paraná	BIN AAC5910	1	5
BAST725-13	<i>Astyanax</i> aff. <i>intermedius</i>	-25.442	-51.455	Paraná	Paraná	BIN AAC5910	1	6
BAST726-13	<i>Astyanax</i> aff. <i>intermedius</i>	-25.442	-51.455	Paraná	Paraná	BIN AAC5910	1	6
GBMIN131413-17	<i>Astyanax bifasciatus</i>	-26.150	-51.6	Paraná	Paraná	BIN AAC5910	1	6
GBMIN131411-17	<i>Astyanax bifasciatus</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
GBMIN125826-17	<i>Astyanax bifasciatus</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
GBMIN131412-17	<i>Astyanax bifasciatus</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
BAST1001-13	<i>Astyanax bockmanni</i>	-23.191	-50.946	Paraná	Paraná	BIN AAC5910	1	6
BAST1002-13	<i>Astyanax dissimilis</i>	-25.786	-50.228	Paraná	Paraná	BIN AAC5910	1	6
BAST1443-13	<i>Astyanax minor</i>	-25.601	-52.572	Paraná	Paraná	BIN AAC5910	1	6
GBMIN125829-17	<i>Astyanax minor</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
GBMIN125830-17	<i>Astyanax minor</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
BAST1446-13	<i>Astyanax minor</i>	-25.601	-52.572	Paraná	Paraná	BIN AAC5910	1	6
BAST1444-13	<i>Astyanax minor</i>	-25.601	-52.572	Paraná	Paraná	BIN AAC5910	1	6
GBMIN121128-17	<i>Astyanax minor</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
GBMIN125831-17	<i>Astyanax minor</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	6
BAST1078-13	<i>Astyanax</i> sp. Tietê*	-22.904	-48.367	Tietê	Paraná	BIN AAC5910	1	6
BAST1003-13	<i>Astyanax bifasciatus</i>	-25.786	-50.228	Iguaçu	Paraná	BIN AAC5910	1	7
GBMIN131414-17	<i>Astyanax bifasciatus</i>	-26.15	-51.6	Paraná	Paraná	BIN AAC5910	1	7
BAST724-13	<i>Astyanax intermedius</i>	-22.637	-44.616	Paraíba do Sul	Paraíba do Sul	BIN AAC5910	1	7
BAST1445-13	<i>Astyanax minor</i>	-25.601	-52.572	Paraná	Paraná	BIN AAC5910	1	7
Node 2								
BAST070-12	<i>Astyanax bockmanni</i>	-21.013	-49.69	Tietê	Paraná	BIN AAC5910	1	8
BAST525-12	<i>Astyanax paranae</i>	-22.405	-47.812	Tietê	Paraná	BIN AAC5910	1	8
BAST1163-13	<i>Astyanax bockmanni</i>	-20.259	-46.086	Paraná	Paraná	BIN AAC5910	1	9
BAST162-12	<i>Astyanax bockmanni</i>	-	-	Tietê	Paraná	BIN AAC5910	1	9
BAST728-13	<i>Astyanax scabripinnis</i>	-25.442	-51.455	Iguaçu	Paraná	BIN AAC5910	1	9
GBGCA3260-13	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	10
GBGCA3261-13	<i>Astyanax bockmanni</i>	-22.899	-48.386	Tietê	Paraná	BIN AAC5910	1	10
BAST163-12	<i>Astyanax bockmanni</i>	-	-	Tietê	Paraná	BIN AAC5910	1	11



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
GBGCA3259-13	<i>Astyanax bockmanni</i>	-	-	Paraná	Paraná	BIN AAC5910	1	11
BAST1485-14	<i>Astyanax bockmanni</i>	-21.747	-46.467	Paraná	Paraná	BIN AAC5910	1	12
BAST339-12	<i>Astyanax paranae</i>	-21.444	-44.602	Paraná	Paraná	BIN AAC5910	1	12
BAST337-12	<i>Astyanax paranae</i>	-21.444	-44.602	Paraná	Paraná	BIN AAC5910	1	12
BAST336-12	<i>Astyanax paranae</i>	-21.444	-44.602	Paraná	Paraná	BIN AAC5910	1	12
BAST340-12	<i>Astyanax paranae</i>	-21.444	-44.602	Paraná	Paraná	BIN AAC5910	1	12
FUPR1154-10	<i>Astyanax bockmanni</i>	-25.092	-52.495	Paraná	Paraná	BIN AAC5910	1	13
FUPR1155-10	<i>Astyanax bockmanni</i>	-25.092	-52.495	Paraná	Paraná	BIN AAC5910	1	13
BAST262-12	<i>Astyanax bockmanni</i>	-25.319	-52.489	Paraná	Paraná	BIN AAC5910	1	13
BAST261-12	<i>Astyanax bockmanni</i>	-25.319	-52.489	Paraná	Paraná	BIN AAC5910	1	13
BAST445-12	<i>Astyanax bockmanni</i>	-22.149	-53.426	Paraná	Paraná	BIN AAC5910	1	13
BAST260-12	<i>Astyanax bockmanni</i>	-25.319	-52.489	Paraná	Paraná	BIN AAC5910	1	13
BAST263-12	<i>Astyanax bockmanni</i>	-25.092	-52.495	Paraná	Paraná	BIN AAC5910	1	13
FUPR1152-10	<i>Astyanax scabripinnis</i>	-25.319	-52.489	Paraná	Paraná	BIN AAC5910	1	13
FUPR1153-10	<i>Astyanax scabripinnis</i>	-25.319	-52.489	Paraná	Paraná	BIN AAC5910	1	13
BAST202-12	<i>Astyanax</i> sp. Cuiabá*	-15.353	-56.025	Cuiabá	Paraguay	BIN AAC5910	1	13
FUPR1088-10	<i>Astyanax paranae</i>	-23.954	-51.114	Paraná	Paraná	BIN AAC5910	1	14
FUPR1090-10	<i>Astyanax paranae</i>	-23.954	-51.114	Paraná	Paraná	BIN AAC5910	1	14
FUPR1091-10	<i>Astyanax paranae</i>	-23.954	-51.114	Paraná	Paraná	BIN AAC5910	1	14
FUPR1089-10	<i>Astyanax paranae</i>	-23.954	-51.114	Paraná	Paraná	BIN AAC5910	1	14
FUPR1092-10	<i>Astyanax paranae</i>	-23.954	-51.114	Paraná	Paraná	BIN AAC5910	1	14
PDCAP210-14	<i>Astyanax bockmanni</i>	-23.391	-50.996	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP211-14	<i>Astyanax bockmanni</i>	-23.391	-50.996	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP246-14	<i>Astyanax bockmanni</i>	-23.521	-50.956	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP247-14	<i>Astyanax bockmanni</i>	-23.521	-50.956	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP212-14	<i>Astyanax bockmanni</i>	-23.391	-50.996	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP248-14	<i>Astyanax bockmanni</i>	-23.521	-50.956	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP249-14	<i>Astyanax bockmanni</i>	-23.521	-50.956	Tibagi	Paraná	BIN AAC5910	1	15
PDCAP250-14	<i>Astyanax bockmanni</i>	-23.521	-50.956	Tibagi	Paraná	BIN AAC5910	1	15
BAST882-13	<i>Astyanax bockmanni</i>	-15.582	-47.343	São Francisco	São Francisco	BIN AAC5910	1	16
BAST258-12	<i>Astyanax bockmanni</i>	-17.801	-48.372	Paranaíba	Paraná	BIN AAC5910	1	16
FUPR1147-10	<i>Astyanax bockmanni</i>	-17.099	-48.762	Paraná	Paraná	BIN AAC5910	1	16
BAST1159-13	<i>Astyanax rivularis</i>	-19.644	-46.677	Paraná	Paraná	BIN AAC5910	1	16
BAST880-13	<i>Astyanax scabripinnis</i>	-15.717	-47.866	Paraná	Paraná	BIN AAC5910	1	16
BAST250-12	<i>Astyanax bockmanni</i>	-23.207	-50.947	Paraná	Paraná	BIN AAC5910	1	17
BAST118-12	<i>Astyanax bockmanni</i>	-22.869	-48.368	Tietê	Paraná	BIN AAC5910	2	17
BAST238-12	<i>Astyanax bockmanni</i>	-21.184	-49.123	Paraná	Paraná	BIN AAC5910	1	18
FUPR1114-10	<i>Astyanax bockmanni</i>	-23.230	-48.532	Paraná	Paraná	BIN AAC5910	1	18
BAST248-12	<i>Astyanax bockmanni</i>	-23.207	-50.947	Paraná	Paraná	BIN AAC5910	1	18
BAST252-12	<i>Astyanax bockmanni</i>	-23.938	-50.729	Paraná	Paraná	BIN AAC5910	1	18
BAST243-12	<i>Astyanax bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	18



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
BAST244-12	<i>Astyanax bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	18
BAST245-12	<i>Astyanax bockmanni</i>	-22.451	-49.241	Paraná	Paraná	BIN AAC5910	1	18
FUPR1110-10	<i>Astyanax bockmanni</i>	-22.368	-47.477	Paraná	Paraná	BIN AAC5910	1	18
FUPR1111-10	<i>Astyanax bockmanni</i>	-22.368	-47.477	Paraná	Paraná	BIN AAC5910	1	18
BAST251-12	<i>Astyanax bockmanni</i>	-23.938	-50.729	Paraná	Paraná	BIN AAC5910	1	18
BAST253-12	<i>Astyanax bockmanni</i>	-23.938	-50.729	Paraná	Paraná	BIN AAC5910	1	18
BAST254-12	<i>Astyanax bockmanni</i>	-23.938	-50.729	Paraná	Paraná	BIN AAC5910	1	18
FUPR1112-10	<i>Astyanax bockmanni</i>	-22.364	-47.513	Paraná	Paraná	BIN AAC5910	1	18
FUPR1187-10	<i>Astyanax bockmanni</i>	-	-	Paraná	Paraná	BIN AAC5910	1	18
BAST255-12	<i>Astyanax bockmanni</i>	-23.938	-50.729	Paraná	Paraná	BIN AAC5910	1	18
FUPR1113-10	<i>Astyanax bockmanni</i>	-22.364	-47.513	Paraná	Paraná	BIN AAC5910	1	18
BAST901-13	<i>Astyanax bockmanni</i>	-18.271	-52.843	Paraná	Paraná	BIN AAC5910	1	19
BAST905-13	<i>Astyanax bockmanni</i>	-18.92	-52.044	Paraná	Paraná	BIN AAC5910	1	19
BAST903-13	<i>Astyanax bockmanni</i>	-18.92	-52.044	Paraná	Paraná	BIN AAC5910	1	19
BAST902-13	<i>Astyanax bockmanni</i>	-18.92	-52.044	Paraná	Paraná	BIN AAC5910	1	19
BAST805-13	<i>Astyanax</i> sp. Aporé *	-18.881	-52.111	Aporé	Paraná	BIN AAC5910	1	19
BAST807-13	<i>Astyanax</i> sp. Aporé *	-18.881	-52.111	Aporé	Paraná	BIN AAC5910	1	19
BAST242-12	<i>Astyanax bockmanni</i>	-22.451	-49.241	Paranapanema	Paraná	BIN AAC5910	1	20
BAST730-13	<i>Astyanax bockmanni</i>	-23.484	-51.078	Tibagi	Paraná	BIN AAC5910	1	21
BAST071-12	<i>Astyanax bockmanni</i>	-21.013	-49.69	Tietê	Paraná	BIN AAC5910	1	22
BAST1084-13	<i>Astyanax bockmanni</i>	-23.024	-48.828	Paranapanema	Paraná	BIN AAC5910	1	23
Node 3								
BAST1045-13	<i>Astyanax</i> cf. <i>fasciatus</i>	-4.466	-56.145	Tapajós	Amazon	BIN AAC5910	1	24
BAST1146-13	<i>Astyanax fasciatus</i>	-9.856	-37.108	São Francisco	São Francisco	BIN AAC5910	1	24
BAST1157-13	<i>Astyanax fasciatus</i>	-9.934	-37.115	São Francisco	São Francisco	BIN AAC5910	1	24
BAST1152-13	<i>Astyanax</i> sp. Tapajós*	-10.02	-37.118	Tapajós	Amazon	BIN AAC5910	1	24
BSB008-10	<i>Astyanax bimaculatus</i>	-19.878	-45.435	São Francisco	São Francisco	BIN AAC5910	1	25
BSB011-10	<i>Astyanax bimaculatus</i>	-19.878	-45.435	São Francisco	São Francisco	BIN AAC5910	1	25
BSB010-10	<i>Astyanax bimaculatus</i>	-19.878	-45.435	São Francisco	São Francisco	BIN AAC5910	1	25
BSB012-10	<i>Astyanax bimaculatus</i>	-19.878	-45.435	São Francisco	São Francisco	BIN AAC5910	1	25
BSB200-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-17.984	-44.169	São Francisco	São Francisco	BIN AAC5910	1	25
BSB201-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-17.984	-44.169	São Francisco	São Francisco	BIN AAC5910	1	25
BSB199-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-15.672	-44.637	São Francisco	São Francisco	BIN AAC5910	1	25
BSB195-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-15.672	-44.637	São Francisco	São Francisco	BIN AAC5910	1	25
BSB197-10	<i>Astyanax</i> cf. <i>fasciatus</i>	-15.672	-44.637	São Francisco	São Francisco	BIN AAC5910	1	25
BAST375-12	<i>Astyanax fasciatus</i>	-19.878	-45.435	São Francisco	São Francisco	BIN AAC5910	1	25
BAST946-13	<i>Astyanax fasciatus</i>	-17.118	-44.831	São Francisco	São Francisco	BIN AAC5910	1	25
BAST504-12	<i>Astyanax fasciatus</i>	-17.118	-44.831	São Francisco	São Francisco	BIN AAC5910	1	25
BAST1150-13	<i>Astyanax fasciatus</i>	-10.149	-36.959	São Francisco	São Francisco	BIN AAC5910	1	25
BAST947-13	<i>Astyanax fasciatus</i>	-17.118	-44.831	São Francisco	São Francisco	BIN AAC5910	1	25
BAST1156-13	<i>Astyanax fasciatus</i>	-9.925	-37.123	São Francisco	São Francisco	BIN AAC5910	1	25

TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
BAST796-13	<i>Astyanax</i> sp. Coité*	-12.372	-41.518	Coité	Paraguaçu	BIN AAC5910	1	25
BAST797-13	<i>Astyanax</i> sp. Coité*	-12.372	-41.518	Coité	Paraguaçu	BIN AAC5910	1	25
BSB204-10	<i>Astyanax</i> sp. Curimataí*	-17.984	-44.169	Curimataí	São Francisco	BIN AAC5910	1	25
BSB203-10	<i>Astyanax</i> sp. Curimataí*	-17.984	-44.169	Curimataí	São Francisco	BIN AAC5910	1	25
BAST1202-13	<i>Astyanax</i> sp. Miriri*	-6.94	-35.098	Miriri	Miriri	BIN AAC5910	1	25
BAST1149-13	<i>Astyanax</i> sp. Poçoão	-10.149	-36.959	Poçoão	São Francisco	BIN AAC5910	1	25
BAST1155-13	<i>Astyanax</i> sp. São Francisco*	-9.925	-37.123	São Francisco	São Francisco	BIN AAC5910	1	25
Node 4								
RPR1	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR3	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR4	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR5	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR6	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR7	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR8	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR9	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR10	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR11	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR13	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR20	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR21	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
RPR22	<i>Astyanax lorien</i>	-12603	-41.524	Preto	Paraguaçu	BIN AAC5910	1	26
Node 5								
8095.1	<i>Astyanax brucutu</i>	-12.211	-41.3224	Pratinha	Paraguaçu	BIN AAC5910	1	26
8095.2	<i>Astyanax brucutu</i>	-12.210	-41.3225	Pratinha	Paraguaçu	BIN AAC5910	1	26
8095.4	<i>Astyanax brucutu</i>	-12.209	-41.3226	Pratinha	Paraguaçu	BIN AAC5910	1	26
Node 6								
BAST857-13	<i>Astyanax scabripinnis</i>	-14.457	-57.576	Paraguay	Paraguay	BIN AAC5910	3	27
BAST1062-13	<i>Astyanax rivularis</i>	-20.144	-46.639	São Francisco	São Francisco	BIN AAC5910	3	27
BAST1173-13	<i>Astyanax rivularis</i>	-20.22	-46.36	São Francisco	São Francisco	BIN AAC5910	3	27
BAST1172-13	<i>Astyanax rivularis</i>	-18.947	-46.282	São Francisco	São Francisco	BIN AAC5910	3	27
BAST365-12	<i>Astyanax rivularis</i>	-	-	São Francisco	São Francisco	BIN AAC5910	3	27
BAST366-12	<i>Astyanax rivularis</i>	-	-	São Francisco	São Francisco	BIN AAC5910	3	27
Node 7								
8463.1	<i>Astyanax epiagos</i>	-11.340	-41.074	Ferro Doido	Paraguaçu	BIN AAC5910	4	28
8463.2	<i>Astyanax epiagos</i>	-11.340	-41.074	Ferro Doido	Paraguaçu	BIN AAC5910	4	28
8463.3	<i>Astyanax epiagos</i>	-11.340	-41.074	Ferro Doido	Paraguaçu	BIN AAC5910	4	28
8463.4	<i>Astyanax epiagos</i>	-11.340	-41.074	Ferro Doido	Paraguaçu	BIN AAC5910	4	28
8463.5	<i>Astyanax epiagos</i>	-11.340	-41.074	Ferro Doido	Paraguaçu	BIN AAC5910	4	28



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
Node 8								
BAST1162-13	<i>Astyanax bockmanni</i>	-20.259	-46.086	Paraná	Paraná	BIN AAC5910	1	29
BAST1161-13	<i>Astyanax bockmanni</i>	-19.192	-46.412	Paraná	Paraná	BIN AAC5910	1	29
BAST275-12	<i>Astyanax bockmanni</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST276-12	<i>Astyanax bockmanni</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST277-12	<i>Astyanax bockmanni</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST273-12	<i>Astyanax bockmanni</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST274-12	<i>Astyanax bockmanni</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST1167-13	<i>Astyanax cf. fasciatus</i>	-17.944	-47.969	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1496-14	<i>Astyanax scabripinnis</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	29
BAST1113-13	<i>Astyanax paranae</i>	-19.434	-57.052	Paraná	Paraná	BIN AAC5910	1	29
BAST1171-13	<i>Astyanax rivularis</i>	-18.947	-46.282	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1053-13	<i>Astyanax rivularis</i>	-20.214	-46.381	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1051-13	<i>Astyanax rivularis</i>	-20.214	-46.381	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1050-13	<i>Astyanax rivularis</i>	-20.214	-46.381	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1049-13	<i>Astyanax rivularis</i>	-20.146	-46.67	São Francisco	São Francisco	BIN AAC5910	1	29
BAST1114-13	<i>Astyanax rivularis</i>	-20.331	-46.498	São Francisco	São Francisco	BIN AAC5910	1	29
BAST211-12	<i>Astyanax paranae</i>	-21.361	-46.556	Grande	Paraná	BIN AAC5910	1	30
FUPR1171-10	<i>Astyanax paranae</i>	-21.38	-46.475	Paraná	Paraná	BIN AAC5910	1	30
BAST212-12	<i>Astyanax paranae</i>	-21.361	-46.556	Grande	Paraná	BIN AAC5910	1	30
FUPR1170-10	<i>Astyanax paranae</i>	-21.359	-46.474	Paraná	Paraná	BIN AAC5910	1	30
FUPR1169-10	<i>Astyanax paranae</i>	-21.359	-46.474	Paraná	Paraná	BIN AAC5910	1	30
BAST213-12	<i>Astyanax paranae</i>	-21.361	-46.556	Grande	Paraná	BIN AAC5910	1	30
FUPR1172-10	<i>Astyanax paranae</i>	-21.302	-46.476	Paraná	Paraná	BIN AAC5910	1	30
FUPR1141-10	<i>Astyanax paranae</i>	-22.614	-45.514	Paraná	Paraná	BIN AAC5910	1	30
FUPR1143-10	<i>Astyanax paranae</i>	-22.614	-45.514	Paraná	Paraná	BIN AAC5910	1	30
FUPR1144-10	<i>Astyanax paranae</i>	-22.614	-45.514	Paraná	Paraná	BIN AAC5910	1	30
FUPR1142-10	<i>Astyanax paranae</i>	-22.614	-45.514	Paraná	Paraná	BIN AAC5910	1	30
BAST731-13	<i>Astyanax bockmanni</i>	-23.484	-51.078	Tibagi	Paraná	BIN AAC5910	1	31
BAST729-13	<i>Astyanax bockmanni</i>	-23.484	-51.078	Tibagi	Paraná	BIN AAC5910	1	31
BAST1110-13	<i>Astyanax cf. fasciatus</i>	-18.721	-44.346	Ribeirão Santo Antônio	São Francisco	BIN AAC5910	1	32
BSB194-10	<i>Astyanax sp. das Velhas*</i>	-17.585	-44.651	São Francisco	São Francisco	BIN AAC5910	1	32
BAST1165-13	<i>Astyanax bockmanni</i>	-19.665	-47.818	Paraná	Paraná	BIN AAC5910	1	33
BAST1166-13	<i>Astyanax cf. fasciatus</i>	-17.944	-47.969	Paraná	Paraná	BIN AAC5910	1	33
BAST740-13	<i>Astyanax scabripinnis</i>	-19.461	-43.72	São Francisco	São Francisco	BIN AAC5910	1	33
BAST742-13	<i>Astyanax scabripinnis</i>	-19.461	-43.72	São Francisco	São Francisco	BIN AAC5910	1	33
RD0CE218-14	<i>Astyanax scabripinnis</i>	-	-	Doce	Doce	BIN AAC5910	1	33
BAST1169-13	<i>Astyanax scabripinnis</i>	-19.274	-46.144	São Francisco	São Francisco	BIN AAC5910	1	33
BAST741-13	<i>Astyanax scabripinnis</i>	-19.461	-43.72	São Francisco	São Francisco	BIN AAC5910	1	33
RDOCE219-14	<i>Astyanax scabripinnis</i>	-	-	Doce	Doce	BIN AAC5910	1	33



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
RD0CE220-14	<i>Astyanax scabripinnis</i>	-	-	Doce	Doce	BIN AAC5910	1	33
BAST842-13	<i>Astyanax scabripinnis</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	1	33
BSB067-10	<i>Astyanax</i> sp. Santo Antônio*	-17.96	-45.704	Santo Antônio	São Francisco	BIN AAC5910	1	33
BAST739-13	<i>Astyanax</i> sp. Paraibuna*	-22.023	-43.169	Paraibuna	Paraíba do Sul	BIN AAC5910	1	33
BSB206-10	<i>Astyanax</i> sp. Jabuticatubas*	-19.468	-43.868	Jabuticatubas	São Francisco	BIN AAC5910	1	33
BAST747-13	<i>Astyanax rivularis</i>	-19.499	-43.746	São Francisco	São Francisco	BIN AAC5910	1	33
BAST1168-13	<i>Astyanax rivularis</i>	-20.146	-46.67	São Francisco	São Francisco	BIN AAC5910	1	33
BAST745-13	<i>Astyanax rivularis</i>	-19.499	-43.746	Sao Francisco	São Francisco	BIN AAC5910	1	33
BAST744-13	<i>Astyanax rivularis</i>	-19.499	-43.746	São Francisco	São Francisco	BIN AAC5910	1	33
BAST367-12	<i>Astyanax rivularis</i>	-19.638	-44.122	das Velhas	São Francisco	BIN AAC5910	1	34
BAST368-12	<i>Astyanax rivularis</i>	-19.638	-44.122	das Velhas	São Francisco	BIN AAC5910	1	34
BSB132-10	<i>Astyanax rivularis</i>	-19.638	-44.122	das Velhas	São Francisco	BIN AAC5910	1	34
BSB133-10	<i>Astyanax rivularis</i>	-19.638	-44.122	das Velhas	São Francisco	BIN AAC5910	1	34
Node 9								
AST028-15	<i>Astyanax</i> sp. Adeja Oveja Negra Stream*	-27.141	-53.924	Adeg Oveja Negra Stream	Uruguay	BIN AAC5910	5	35
AST029-15	<i>Astyanax</i> sp. Adeja Oveja Negra Stream*	-27.141	-53.924	Adeg Oveja Negra Stream	Uruguay	BIN AAC5910	5	35
FWFA265-14	<i>Astyanax</i> sp. Adeja Oveja Negra Stream*	-27.141	-53.924	Adeg Oveja Negra Stream	Uruguay	BIN AAC5910	5	35
BAST1015-13	<i>Astyanax</i> sp. Adeja Oveja Negra Stream*	-26.859	-52.742	Uruguay	Uruguay	BIN AAC5910	5	35
FWFA266-14	<i>Astyanax</i> sp. Adeja Oveja Negra Stream*	-27.141	-53.924	Adeg Oveja Negra Stream	Uruguay	BIN AAC5910	5	35
FARGB774-12	<i>Astyanax</i> sp. Ramos Stream*	-27.444	-54.94	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB788-12	<i>Astyanax</i> sp. Ramos Stream*	-27.444	-54.94	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB815-12	<i>Astyanax</i> sp. Ramos Stream*	-27.463	-54.952	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB816-12	<i>Astyanax</i> sp. Ramos Stream*	-27.463	-54.952	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB775-12	<i>Astyanax</i> sp. Ramos Stream*	-27.444	-54.94	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB776-12	<i>Astyanax</i> sp. Ramos Stream*	-27.444	-54.94	Ramos Stream	Uruguay	BIN AAC5910	5	35
FWFA197-14	<i>Astyanax</i> sp. Ramos Stream*	-27.463	-54.952	Ramos Stream	Uruguay	BIN AAC5910	5	35
FWFA213-14	<i>Astyanax</i> sp. Ramos Stream*	-27.463	-54.952	Ramos Stream	Uruguay	BIN AAC5910	5	35
FARGB777-12	<i>Astyanax</i> sp. Ramos Stream*	-27.444	-54.94	Ramos Stream	Uruguay	BIN AAC5910	5	35
BAST1329-13	<i>Astyanax</i> sp. Tibagi*	-23.276	-51.093	Tibagi	Paraná	BIN AAC5910	5	35
BAST538-12	<i>Astyanax laticeps</i>	-26.447	-49.165	Itapocu	Itapocu	BIN AAC5910	6	36
BAST536-12	<i>Astyanax laticeps</i>	-26.447	-49.165	Itapocu	Itapocu	BIN AAC5910	6	36
BAST540-12	<i>Astyanax laticeps</i>	-26.447	-49.165	Itapocu	Itapocu	BIN AAC5910	6	36
BAST537-12	<i>Astyanax laticeps</i>	-26.447	-49.165	Itapocu	Itapocu	BIN AAC5910	6	36
BAST628-13	<i>Astyanax obscurus</i>	-25.447	-49.16	Itapocu	Itapocu	BIN AAC5910	6	36
BAST1064-13	<i>Astyanax scabripinnis</i>	-18.821	-46.194	São Francisco	São Francisco	BIN AAC5910	6	36
BAST1065-13	<i>Astyanax</i> sp. Itajaí do Sul*	-27.658	-49.421	Itajaí do Sul	Itajaí do Sul	BIN AAC5910	6	36
BAST1176-13	<i>Astyanax</i> sp. Itajaí do Sul*	-27.658	-49.421	Itajaí do Sul	Itajaí do Sul	BIN AAC5910	6	36
BAST1175-13	<i>Astyanax rivularis</i>	-20.144	-46.639	São Francisco	São Francisco	BIN AAC5910	6	36
RDOCE176-14	<i>Astyanax scabripinnis</i>	-	-	Doce	Doce	BIN AAC5910	7	37



TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
BAST1212-13	<i>Astyanax scabripinnis</i>	-27.151	-50.462	Iguaçu	Paraná	BIN AAC5910	7	37
BAST1542-14	<i>Astyanax scabripinnis</i>	-27.151	-50.462	Iguaçu	Paraná	BIN AAC5910	7	37
BAST543-12	<i>Astyanax</i> sp. Iguaçu*	-27.151	-50.462	Iguaçu	Paraná	BIN AAC5910	7	37
BAST541-12	<i>Astyanax</i> sp. Iguaçu*	-27.151	-50.462	Iguaçu	Paraná	BIN AAC5910	7	37
BAST542-12	<i>Astyanax</i> sp. Iguaçu*	-27.151	-50.462	Iguaçu	Paraná	BIN AAC5910	7	37
BAST1211-13	<i>Astyanax</i> sp. Iguaçu*	-22.869	-48.367	Iguaçu	Paraná	BIN AAC5910	7	37
BAST1092-13	<i>Astyanax</i> sp. Negro*	0.271	-66.639	Negro	Amazon	BIN AAC5910	7	37
BAST1066-13	<i>Astyanax</i> sp. Itajaí do Sul*	-27.658	-49.421	Itajaí do Sul	Itajaí do Sul	BIN AAC5910	8	38
BAST1177-13	<i>Astyanax</i> sp. Itajaí do Sul*	-27.658	-49.421	Itajaí do Sul	Itajaí do Sul	BIN AAC5910	8	38
BAST1067-13	<i>Astyanax</i> sp. Jacuí*	-30.318	-50.488	Jacuí	Jacuí	BIN AAC5910	8	38
BAST1069-13	<i>Astyanax</i> sp. Jacuí*	-23.114	-44.724	Jacuí	Jacuí	BIN AAC5910	8	38
BAST1178-13	<i>Astyanax</i> sp. Jacuí*	-30.318	-50.488	Jacuí	Jacuí	BIN AAC5910	8	38
BAST1070-13	<i>Astyanax</i> sp. da Prata*	-28.634	-51.615	da Prata	Jacuí	BIN AAC5910	8	38
BAST1131-13	<i>Astyanax</i> sp. Canoas*	-27.561	-50.838	Uruguay	Uruguay	BIN AAC5910	9	39
Node 10								
BAST485-12	<i>Astyanax paranae</i>	-20.248	-46.64	Grande	Paraná	BIN AAC5910	10	40
BAST271-12	<i>Astyanax paranae</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	10	40
FUPR1137-10	<i>Astyanax paranae</i>	-19.616	-47.45	Paraná	Paraná	BIN AAC5910	10	40
FUPR1139-10	<i>Astyanax paranae</i>	-19.616	-47.45	Paraná	Paraná	BIN AAC5910	10	40
BAST272-12	<i>Astyanax paranae</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	10	40
BAST270-12	<i>Astyanax paranae</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	10	40
BAST268-12	<i>Astyanax paranae</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	10	40
BAST490-12	<i>Astyanax paranae</i>	-20.286	-46.582	Grande	Paraná	BIN AAC5910	10	40
BAST574-12	<i>Astyanax paranae</i>	-20.248	-46.64	Grande	Paraná	BIN AAC5910	10	40
BAST269-12	<i>Astyanax paranae</i>	-20.342	-46.787	Grande	Paraná	BIN AAC5910	10	40
BAST486-12	<i>Astyanax paranae</i>	-20.236	-46.663	Grande	Paraná	BIN AAC5910	10	40
BAST1058-13	<i>Astyanax scabripinnis</i>	-20.331	-46.498	São Francisco	São Francisco	BIN AAC5910	10	40
BAST940-13	<i>Astyanax</i> sp. Mucuri*	-17.695	-40.77	Mucuri	Mucuri	BIN AAC5910	10	40
BAST479-12	<i>Astyanax rivularis</i>	-20.243	-46.447	São Francisco	São Francisco	BIN AAC5910	10	40
BAST1174-13	<i>Astyanax rivularis</i>	-20.22	-46.36	São Francisco	São Francisco	BIN AAC5910	10	40
BAST1059-13	<i>Astyanax rivularis</i>	-20.144	-46.639	São Francisco	São Francisco	BIN AAC5910	10	40
BAST480-12	<i>Astyanax rivularis</i>	-20.243	-46.447	São Francisco	São Francisco	BIN AAC5910	10	40
BAST917-13	<i>Astyanax rivularis</i>	-20.232	-46.608	Grande	Paraná	BIN AAC5910	10	40
BAST918-13	<i>Astyanax rivularis</i>	-20.232	-46.608	Grande	Paraná	BIN AAC5910	10	40
BAST919-13	<i>Astyanax rivularis</i>	-20.232	-46.608	Grande	Paraná	BIN AAC5910	10	40
BAST941-13	<i>Astyanax rivularis</i>	-20.248	-46.64	Grande	Paraná	BIN AAC5910	10	40
BAST1158-13	<i>Astyanax</i> sp. São Francisco*	-9.934	-37.115	São Francisco	São Francisco	BIN AAC5910	11	41
BAST1144-13	<i>Astyanax</i> sp. Tapajós*	-4.466	-56.145	Tapajós	Amazon	BIN AAC5910	11	41
BAST491-12	<i>Astyanax scabripinnis</i>	-20.146	-46.67	Grande	Paraná	BIN AAC5910	10	42

TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
Node 11								
BAST005-12	<i>Astyanax xavante</i>	-15.87	-52.252	Córrego Voadeira	Araguaia	BIN AAC5910	12	43
BAST014-12	<i>Astyanax xavante</i>	-17.562	-53.308	Araguaia	Araguaia	BIN AAC5910	12	43
BAST601-13	<i>Astyanax xavante</i>	-15.881	-52.254	Araguaia	Araguaia	BIN AAC5910	12	43
BAST007-12	<i>Astyanax xavante</i>	-15.87	-52.252	Araguaia	Araguaia	BIN AAC5910	12	43
BAST1267-13	<i>Astyanax xavante</i>	-15.856	-52.254	Araguaia	Araguaia	BIN AAC5910	12	43
BAST1268-13	<i>Astyanax xavante</i>	-15.856	-52.254	Araguaia	Araguaia	BIN AAC5910	12	43
BAST013-12	<i>Astyanax xavante</i>	-17.562	-53.308	Araguaia	Araguaia	BIN AAC5910	12	43
BAST1460-14	<i>Astyanax xavante</i>	-17.562	-53.308	Araguaia	Araguaia	BIN AAC5910	12	43
BAST015-12	<i>Astyanax xavante</i>	-17.562	-53.308	Araguaia	Araguaia	BIN AAC5910	12	43
BAST1269-13	<i>Astyanax xavante</i>	-15.856	-52.254	Araguaia	Araguaia	BIN AAC5910	12	43
BAST1436-13	<i>Astyanax gymnodontus</i>	-25.543	-52.298	Iguaçu	Paraná	BIN ABZ0055	13	44
BAST1442-13	<i>Astyanax gymnogenys</i>	-25.543	-53.029	Iguaçu	Paraná	BIN ABZ0055	13	44
BAST1441-13	<i>Astyanax gymnogenys</i>	-25.543	-53.029	Iguaçu	Paraná	BIN ABZ0055	13	44
BAST1440-13	<i>Astyanax gymnodontus</i>	-25.543	-52.298	Iguaçu	Paraná	BIN ABZ0055	13	44
BAST1439-13	<i>Astyanax gymnodontus</i>	-25.543	-52.298	Iguaçu	Paraná	BIN ABZ0055	13	44
Node 12								
BAST297-12	<i>Astyanax fasciatus</i> cf. <i>jequitinhonhae</i>	-16.51	-41.334	Jequitinhonha	Jequitinhonha	BIN AAC5910	14	45
BAST299-12	<i>Astyanax fasciatus</i> cf. <i>jequitinhonhae</i>	-16.51	-41.334	Jequitinhonha	Jequitinhonha	BIN AAC5910	14	45
BAST298-12	<i>Astyanax fasciatus</i> cf. <i>jequitinhonhae</i>	-16.51	-41.334	Jequitinhonha	Jequitinhonha	BIN AAC5910	14	45
BAST307-12	<i>Astyanax fasciatus</i>	-14.664	-39.224	Almada	Almada	BIN AAC5910	14	45
BAST310-12	<i>Astyanax fasciatus</i>	-14.664	-39.224	Almada	Almada	BIN AAC5910	14	45
BAST314-12	<i>Astyanax fasciatus</i>	-14.664	-39.224	Almada	Almada	BIN AAC5910	14	45
BAST309-12	<i>Astyanax fasciatus</i>	-14.664	-39.224	Almada	Almada	BIN AAC5910	14	45
BAST312-12	<i>Astyanax fasciatus</i>	-14.664	-39.224	Almada	Almada	BIN AAC5910	14	45
JEQUI048-12	<i>Astyanax fasciatus</i>	-16.382	-42.476	São Francisco	São Francisco	BIN AAC5910	14	45
BAST320-12	<i>Astyanax</i> sp. do Braço*	-14.686	-39.274	do Braço	Almada	BIN AAC5910	14	45
BAST321-12	<i>Astyanax</i> sp. do Braço*	-14.686	-39.274	do Braço	Almada	BIN AAC5910	14	45
BAST291-12	<i>Astyanax</i> sp. Jequitinhonha *	-16.92	-42.454	Jequitinhonha	Jequitinhonha	BIN ABZ0055	15	46
JEQUI207-13	<i>Astyanax</i> aff. <i>fasciatus</i>	-16.599	-42.927	Itacambirucu	Jequitinhonha	BIN AAC5910	16	47
Node 13								
RCB1	<i>Astyanax rupestris</i>	-13.010	-41.203	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB2	<i>Astyanax rupestris</i>	-13.010	-41.203	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB3	<i>Astyanax rupestris</i>	-13.010	-41.203	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB4	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB5	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB6	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB8	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48

TABLE S2 I (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
RCB9	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB10	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB11	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB12	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB15	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB16	<i>Astyanax rupestris</i>	-12.896	-41.318	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB18	<i>Astyanax rupestris</i>	-13.010	-41.358	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB19	<i>Astyanax rupestris</i>	-13.010	-41.367	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB20	<i>Astyanax rupestris</i>	-13.010	-41.377	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
RCB21	<i>Astyanax rupestris</i>	-12.896	-41.386	Coisa Boa	Paraguaçu	BIN ADI2769	17	48
8510.1	<i>Astyanax rupestris</i>	-13.010	-41.203	Cumbuca	Paraguaçu	BIN ADI2769	17	48
8510.2	<i>Astyanax rupestris</i>	-13.010	-41.203	Cumbuca	Paraguaçu	BIN ADI2769	17	48
8510.3	<i>Astyanax rupestris</i>	-13.010	-41.203	Cumbuca	Paraguaçu	BIN ADI2769	17	48
Node 14								
RPI7	<i>Astyanax aff. rupestris</i> 1	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	18	49
RPI8	<i>Astyanax aff. rupestris</i> 1	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	18	49
RPII2	<i>Astyanax aff. rupestris</i> 1	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	18	49
RPII20	<i>Astyanax aff. rupestris</i> 1	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	18	49
Node 15								
RPI1	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI2	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI3	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI4	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI5	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI6	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI9	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI10	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI13	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI14	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI15	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI16	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI20	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPI22	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII1	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII3	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII4	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII15	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII6	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII7	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII16	<i>Astyanax aff. rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50

TABLE S2 | (Continued)

ID Boldsystem	Species	Latitude	Longitude	River	Major basin	MOTUS results		
						BIN	ABGD	GMYC
RPII18	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII19	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII10	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII22	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII23	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII24	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII25	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
RPII26	<i>Astyanax</i> aff. <i>rupestris</i> 2	-12.993	-41.341	Piabinha	Paraguaçu	BIN ACR6356	19	50
BAST1582-14	<i>Astyanax</i> sp. Piabinha*	-13.064	-41.298	Paraguaçu	Paraguaçu	BIN ACR6356	19	50
BAST1583-14	<i>Astyanax</i> sp. Piabinha*	-13.064	-41.298	Paraguaçu	Paraguaçu	BIN ACR6356	19	50



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