

Supplementary Materials

Figure 1. Backbone phylogeny of Thompson et al. (2023). We swapped out 5 species in the Thompson et al. (2023) backbone phylogeny for a species in the same genus, present in our alignment, under the assumption that such genera were monophyletic (*Cyprinodon variegatus* for *Cyprinodon rubrofluviatilis*, *Papiliolebias ashlyae* for *Papiliolebias bitteri*, *Ophthalmolebias perpendicularis* for *Ophthalmolebias bokermanni*, *Pachypanchax sakaramyi* for *Pachypanchax playfairii*, and *Oreochromis niloticus* for *Oreochromis*).

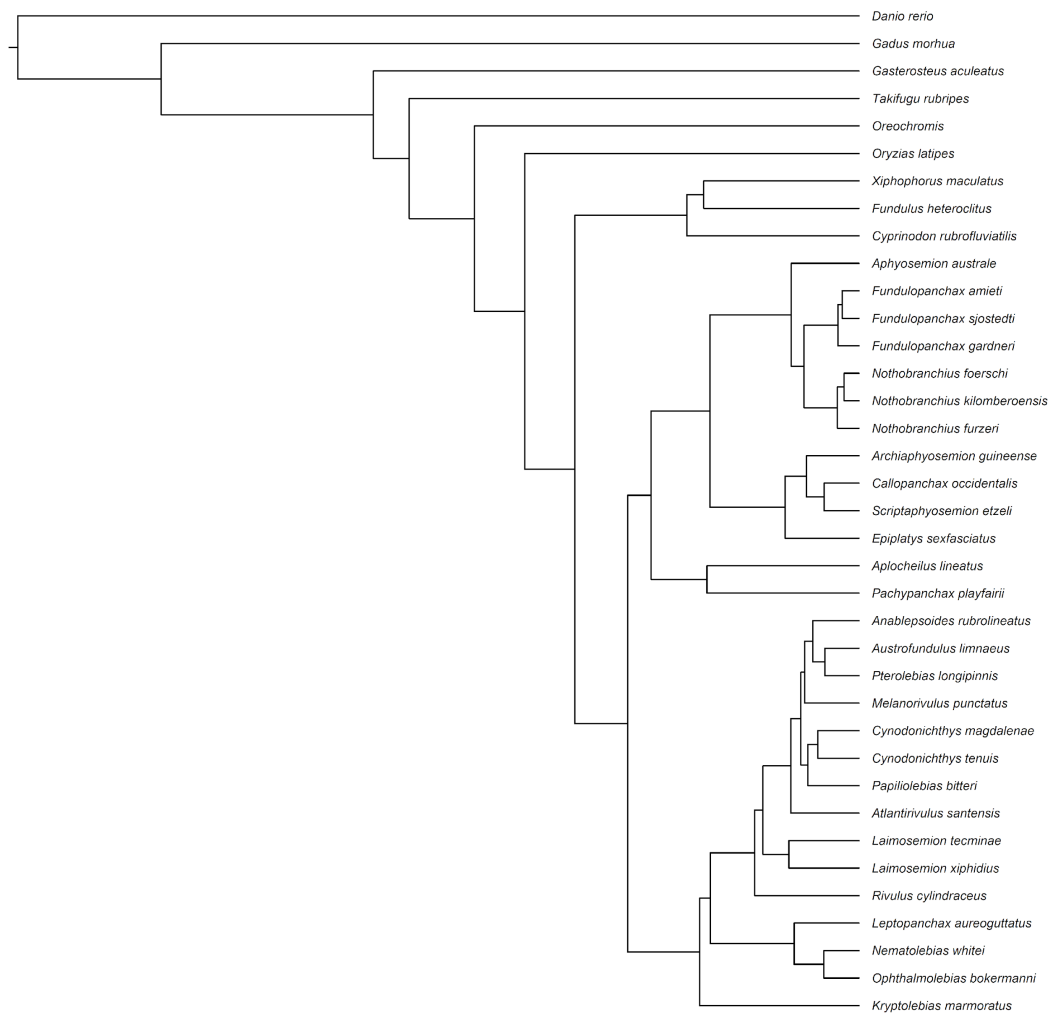


Table S1. Taxon sampling, character scoring, and GenBank accession numbers. Taxa names which were updated from Furness et al. (2015) are highlighted in green, and added taxa and GenBank numbers are highlighted in yellow.

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
1	<i>Anableps anableps</i>	0	EF017456	EF017456			AF449341	AF449341	AF449341
2	<i>Aphredoderus sayanus</i>	0	NC_004372	NC_004372	NC_004372	NC_004372	NC_004372	NC_004372	NC_004372
3	<i>Moema peruensis</i>	1	AF092340	AF092340		AF002569		AF092407	AF092407
4	<i>Aphyosemion ahli</i>	0	DQ278267						EF417000
5	<i>Aphyosemion alpha</i>	0	DQ278418						
6	<i>Aphyosemion aureum</i>	0	AF002385						
7	<i>Aphyosemion australe</i>	0	AF002367			AAU73245			EF417018
8	<i>Aphyosemion bamilekorum</i>	0							
9	<i>Aphyosemion batesii</i>	1	AF002350						
10	<i>Aphyosemion bitaeniatum</i>	0	DQ278264						
11	<i>Aphyosemion bivittatum</i>	0	DQ278348			ABU73246			
12	<i>Aphyosemion bualanum</i>	0	AF002370						
13	<i>Aphyosemion calliurum</i>	0	EU282844						EF417020
14	<i>Aphyosemion cameronense</i>	0	AF002382						
15	<i>Aphyosemion campomaanense</i>	0							
16	<i>Aphyosemion celiae</i>	0	AF002369						EF417036
17	<i>Aphyosemion christyi</i>	0	AF002390						
18	<i>Aphyosemion citrineipinnis</i>	0	AF002386						
19	<i>Aphyosemion coeleste</i>	0	AF002387						
20	<i>Aphyosemion cognatum</i>	0	AF002391						
21	<i>Aphyosemion congcicum</i>	0	AF002398						
22	<i>Aphyosemion cyanostictum</i>	0	AF002372						
23	<i>Aphyosemion decorsei</i>	0	AF002393						
24	<i>Aphyosemion ecucuense</i>	0							
25	<i>Aphyosemion edeanum</i>	0	EU282850						EF417039
26	<i>Aphyosemion elberti</i>	0	AF092288	AF092288				AF092355	AF092355
27	<i>Aphyosemion elegans</i>	0	AF002396						

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
28	<i>Aphyosemion erythron</i>	0							
29	<i>Aphyosemion etsamense</i>	0							
30	<i>Aphyosemion exigoideum</i>	0	AF002376						
31	<i>Aphyosemion exiguum</i>	0	AF002371						
32	<i>Aphyosemion franzwernerii</i>	0							EF417043
33	<i>Aphyosemion gabunense</i>	0	AF002377						
34	<i>Aphyosemion georgiae</i>	0							
35	<i>Aphyosemion heinemanni</i>	0							EF417045
36	<i>Aphyosemion hera</i>	0	DQ286834						
37	<i>Aphyosemion herzogi</i>	0							
38	<i>Aphyosemion kouamense</i>	0	EF063374						
39	<i>Aphyosemion kounqueense</i>	0							
40	<i>Aphyosemion labarrei</i>	0	AF002389						
41	<i>Aphyosemion lamberti</i>	0	AF002397						
42	<i>Aphyosemion lividum</i>	0	EU282847						
43	<i>Aphyosemion loennbergii</i>	0	DQ278337						
44	<i>Aphyosemion louessense</i>	0	AF002378						
45	<i>Aphyosemion lugens</i>	0	DQ278406						
46	<i>Aphyosemion maculatum</i>	0	AF002383						
47	<i>Aphyosemion malumbresi</i>	0	EF063378						
48	<i>Aphyosemion melanogaster</i>	0	DQ278365						
49	<i>Aphyosemion melinoeides</i>	0							
50	<i>Aphyosemion mimbon</i>	0	AF002384						
51	<i>Aphyosemion occellatum</i>	0	AF002388						
52	<i>Aphyosemion ogoense</i>	0	AF002379						
53	<i>Aphyosemion omega</i>	0							
54	<i>Aphyosemion pascheni</i>	0							EF417046
55	<i>Aphyosemion pascheni-festivum</i>	0	EU282841						EF417040
56	<i>Aphyosemion poliaki</i>	0	DQ278273						
57	<i>Aphyosemion primigenium</i>	0	AF002380						
58	<i>Aphyosemion punctatum</i>	0	AF002400						

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
59	<i>Aphyosemion punctulatum</i>	0	DQ278399						
60	<i>Aphyosemion rectogoense</i>	0	AF002399						
61	<i>Aphyosemion riggenbachi</i>	0	DQ278289						
62	<i>Aphyosemion</i> sp. 08 RS-2007	0							
63	<i>Aphyosemion</i> sp. Bimbila	0							
64	<i>Aphyosemion</i> sp. Bioko	0							
65	<i>Aphyosemion</i> sp. LEC 93/27	0	AF002375						
66	<i>Aphyosemion</i> sp. Oba	0	EF185307						
67	<i>Aphyosemion</i> sp. Rio Muni	0	DQ278414						
68	<i>Aphyosemion splendopleure</i>	0	DQ278311						
69	<i>Aphyosemion striatum</i>	0	AF002381						
70	<i>Aphyosemion vulcanum</i>	0	DQ278395						
71	<i>Aphyosemion wildekampi</i>	0	AF002401						
72	<i>Aplocheilus blockii</i>	0				EF591764			
73	<i>Aplocheilus lineatus</i>	0	ALU73260			ALU73235			
74	<i>Aplocheilus panchax</i>	0	NC_011176	NC_011176	NC_011176	NC_011176	NC_011176	NC_011176	NC_011176
75	<i>Aplocheilus parvus</i>	0				EF591765			
76	<i>Archiaphyosemion guineense</i>	0	AF000688			FJ872031		FJ872058	
77	<i>Astronotus ocellatus</i>	0	NC_009058	NC_009058	NC_009058	NC_009058	NC_009058	NC_009058	NC_009058
78	<i>Austrofundulus quajira</i>	1	AY850673	AY850673			AY850650	AY850650	
79	<i>Austrofundulus lehoignei</i>	1	AY850679	AY850679			AY850656	AY850656	
80	<i>Austrofundulus leoni</i>	1	AY850677	AY850677			AY850654	AY850654	
81	<i>Austrofundulus limnaeus</i>	1	AY850670	AY850670		ALU73254	AY850647	AY850647	
82	<i>Austrofundulus rupununi</i>	1	AY850681	AY850681			AY850658	AY850658	
83	<i>Austrofundulus transilis</i>	1	AY850684	AY850684		AF002521	AY850661	AY850661	
84	<i>Austrolebias adloffii</i>	1	AF244412			AF244443			
85	<i>Austrolebias affinis</i>	1	CAU41801			AF244437			
86	<i>Austrolebias alexandri</i>	1	AF092302	AF092302				AF092369	AF092369
87	<i>Austrolebias bellottii</i>	1	AF092303	AF092303		AF244442		AF092370	AF092370
88	<i>Austrolebias charrua</i>	1							

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
89	<i>Austrolebias cheradophilus</i>	1	AF244424			AF244431			
90	<i>Austrolebias cinereus</i>	1				AF244439			
91	<i>Austrolebias cyaneus</i>	1	AF244426			AF244445			
92	<i>Austrolebias gymnoventris</i>	1	AF244418			AF244438			
93	<i>Austrolebias luteoflammulatus</i>	1				AF244444			
94	<i>Austrolebias melanoorus</i>	1							
95	<i>Austrolebias nigripinnis</i>	1	AF244415			AF244432			
96	<i>Austrolebias nigrofasciatus</i>	1							
97	<i>Austrolebias prognathus</i>	1	AF244425						
98	<i>Austrolebias reicherti</i>	1							
99	<i>Austrolebias sp. duraznensis</i>	1	AF244414			AF244433			
100	<i>Austrolebias vazferreirai</i>	1	AF244421			AF244435			
101	<i>Austrolebias viarius</i>	1	AF243423			AF244441			
102	<i>Austrolebias wolterstorffi</i>	1				AF244434			
103	<i>Callopanchax huwaldi</i>	1	AF000676						
104	<i>Callopanchax monroviae</i>	1				GU553013			
105	<i>Callopanchax occidentalis</i>	1	AF000674			FJ872034		AF092360	AF092360
106	<i>Callopanchax sidibeorum</i>	1	AF000678			GU553012			
107	<i>Callopanchax toddi</i>	1	AF000677			GU553010			
108	<i>Campellolebias chrysolineatus</i>	1	AF002413			AF002515			
109	<i>Campellolebias dorsimaculatus</i>	1	AF092295	AF092295		AF002516		AF092362	AF092362
110	<i>Chauliodus sloani</i>	0	AP002915	AP002915	AP002915	AP002915	AP002915	AP002915	AP002915
111	<i>Cynopoecilus melanotaenia</i>	1	AF092296	AF092296				AF092363	AF092363
112	<i>Cyprinodon rubrofluviatilis</i>	0	NC_009125	NC_009125	NC_009125	NC_009125	NC_009125	NC_009125	NC_009125
113	<i>Danio rerio</i>	0	NC_002333	NC_002333	NC_002333	NC_002333	NC_002333	NC_002333	NC_002333
114	<i>Epiplatys bifasciatus</i>	0							
115	<i>Epiplatys chaperi</i>	0	ECU73265			ECU73240			
116	<i>Epiplatys infrafasciatus</i>	0							
117	<i>Nimbapanchax maeseni</i>	0	RMU73268						
118	<i>Epiplatys multifasciatus</i>	0	EBU73264			EBU73239			

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
147	<i>Gambusia affinis</i>	0	NC_004388	NC_004388	NC_004388	NC_004388	NC_004388	NC_004388	NC_004388
148	<i>Gasterosteus aculeatus</i>	0	NC_003174	NC_003174	NC_003174	NC_003174	NC_003174	NC_003174	NC_003174
149	<i>Glossanodon semifasciatus</i>	0	AP004105	AP004105	AP004105	AP004105	AP004105	AP004105	AP004105
150	<i>Gnatholebias hoignei</i>	1	EF455701	EF455701		AF002523			
151	<i>Gnatholebias zonatus</i>	1	AF092352	AF092352		AF002524		AF092419	AF092419
152	<i>Hippoglossus hippoglossus</i>	0	NC_009709	NC_009709	NC_009709	NC_009709	NC_009709	NC_009709	NC_009709
153	<i>Jordanella floridae</i>	0	NC_011387	NC_011387	NC_011387	NC_011387	NC_011387	NC_011387	NC_011387
154	<i>Kryptolebias brasiliensis</i>	0	AY946281	AY946281				AY946276	AY946276
155	<i>Kryptolebias caudomarginatus</i>	0	AF092294	AF092294		AF002530		AF092361	AF092361
156	<i>Kryptolebias marmoratus</i>	0	NC_003290	NC_003290	NC_003290	NC_003290	NC_003290	NC_003290	NC_003290
157	<i>Kryptolebias ocellatus</i>	0	AF002430			AF002532			
158	<i>Kryptolebias sepia</i>	0	AY946277	AY946277				AY946272	AY946272
159	<i>Lamprogrammus niger</i>	0	NC_004378	NC_004378	NC_004378	NC_004378	NC_004378	NC_004378	NC_004378
160	<i>Leptopanchax aureoguttatus</i>	1	AF002411			AF002513			
161	<i>Leptopanchax citrinipinnis</i>	1	LCU73277			LCU73253			
162	<i>Llanolebias stellifer</i>	1	AF092353	AF092353				AF092420	AF092420
163	<i>Lophius (americanus & piscatorius)</i>	0	NC_004380	NC_004380	NC_004380	NC_004380	NC_004380	NC_004380	NC_004380
164	<i>Lutjanus russellii</i>	0	NC_010963	NC_010963	NC_010963	NC_010963	NC_010963	NC_010963	NC_010963
165	<i>Lycodes (toyamensis & diapterus & brevipes)</i>	0	NC_004409	NC_004409	NC_004409	NC_004409	NC_004409	NC_004409	NC_004409
166	<i>Maratecoara formosa</i>	1	AF092344	AF092344				AF092411	AF092411
167	<i>Maratecoara lacortei</i>	1	AF092343	AF092343		AF002517		AF092410	AF092410
168	<i>Menidia menidia</i>	0	NC_011174	NC_011174	NC_011174	NC_011174	NC_011174	NC_011174	NC_011174
169	<i>Micromoema xiphophora</i>	1	AF092351	AF092351		AF002525		AF092418	AF092418
170	<i>Millerichthys robustus</i>	1	PP330845	PP330845	PP330845	PP330845	PP330845	PP330845	PP330845
171	<i>Moema piriana</i>	1	AF002457			AF002570			
172	<i>Moema staecki</i>	1	AF092339	AF092339		AF002571		AF092406	AF092406

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
173	<i>Monopterus albus</i>	0	NC_003192	NC_003192	NC_003192 2	NC_003192 2	NC_003192 2	NC_003192 2	NC_003192
174	<i>Morone (saxatilis & chrysops)</i>	0	NC_014353	NC_014353	NC_014353 3	NC_014353 3	NC_014353 3	NC_014353 3	NC_014353
175	<i>Mugil cephalus</i>	0	NC_003182	NC_003182	NC_003182 2	NC_003182 2	NC_003182 2	NC_003182 2	NC_003182
176	<i>Myripristis (berndti & botche)</i>	0	NC_003189	NC_003189	NC_003189 9	NC_003189 9	NC_003189 9	NC_003189 9	NC_003189
177	<i>Nematolebias whitei</i>	1	AF092298	AF092298		AF002511		AF092365	AF092365
178	<i>Neofundulus ornatipinnis</i>	1	AF092336	AF092336				AF092403	AF092403
179	<i>Neofundulus paraguayensis</i>	1	AF092338	AF092338		AF002573		AF092405	AF092405
180	<i>Neofundulus sp. Paraguay</i>	1	AF092337	AF092337				AF092404	AF092404
181	<i>Neoscopelus (microchir & macrolepidotus)</i>	0	NC_003180	NC_003180	NC_003180 0	NC_003180 0	NC_003180 0	NC_003180 0	NC_003180
182	<i>Nimbapanchax jeanpoli</i>	0				FJ872029		FJ872057	
183	<i>Nimbapanchax leucopterygius</i>	0				FJ872026		FJ872054	
184	<i>Nimbapanchax melanopterygius</i>	0				FJ872024		FJ872052	
185	<i>Nimbapanchax petersi</i>	0	AF000690			FJ872030			
186	<i>Nimbapanchax viridis</i>	0	AF000691			FJ872027		FJ872055	
187	<i>Nothobranchius cardinalis</i>	1							
188	<i>Nothobranchius eggersi</i>	1		GU138042	GU138042			GU138045	
189	<i>Nothobranchius elongatus</i>	1		EU401647	EU401647			EU182591	
190	<i>Nothobranchius foerschi</i>	1							
191	<i>Nothobranchius furzeri</i>	1	NC_011814	NC_011814	NC_011814 4	NC_011814 4	NC_011814 4	NC_011814 4	NC_011814
192	<i>Nothobranchius quentheri</i>	1							
193	<i>Nothobranchius hengstleri</i>	1		EU401666	EU401666			EU401646	
194	<i>Nothobranchius jubbi</i>	1		EU401651	EU401651			EU401628	
195	<i>Nothobranchius kafuensis</i>	1	NKU73274 & GU138041	NKU73274 & GU138041	GU138041	NKU73249		GU138059	
196	<i>Nothobranchius kilomberoensis</i>	1							
197	<i>Nothobranchius kirki</i>	1	NKU73275			NKU73250			
198	<i>Nothobranchius krammeri</i>	1							
199	<i>Nothobranchius krysanovi</i>	1		GU138040	GU138040			GU138058	

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
200	<i>Nothobranchius kuhntae</i>	1							
201	<i>Nothobranchius lucius</i>	1		EU401650	EU401650			EU401631	
202	<i>Nothobranchius makondorum</i>	1		EU401654	EU401654			EU401633	
203	<i>Nothobranchius melanospilus</i>	1		EU401659	EU401659			EU401639	
204	<i>Nothobranchius ocellatus</i>	1		EU401663	EU401663			EU401643	
205	<i>Nothobranchius orthonotus</i>	1		EU401664	EU401664			EU401644	
206	<i>Nothobranchius pienaari</i>	1		GU138038	GU138038			GU138056	
207	<i>Nothobranchius polli</i>	1		GU138033	GU138033			GU138051	
208	<i>Nothobranchius rachovii</i>	1		GU138044	GU138044			GU138050	
209	<i>Nothobranchius rubroreticulatus</i>	1		GU138032	GU138032			GU138047	
210	<i>Fundulosoma thierryi</i>	1	AF002347			AF002405			
211	<i>Notholebias minimus</i>	1	AF092297	AF092297		AF002514		AF092364	AF092364
212	<i>Oncorhynchus mykiss</i>	0	NC_001717	NC_001717	NC_001717	NC_001717	NC_001717	NC_001717	NC_001717
213	<i>Oreochromis (niloticus & tanganicae & aureus)</i>	0	NC_013663	NC_013663	NC_013663	NC_013663	NC_013663	NC_013663	NC_013663
214	<i>Oryzias latipes</i>	0	NC_004387	NC_004387	NC_004387	NC_004387	NC_004387	NC_004387	NC_004387
215	<i>Pachypanchax omalonotus</i>	0	PHU73262			PHU73237			
216	<i>Pachypanchax playfairii</i>	0	PPU73263			DQ532927			
217	<i>Papiliolebias bitteri</i>	1	AF092341	AF092341		AF002520		AF092408	AF092408
218	<i>Pituna poranga</i>	1	AF092345	AF092345		AF002518		AF092412	AF092412
219	<i>Plecoglossus altivelis</i>	0	NC_002734	NC_002734	NC_002734	NC_002734	NC_002734	NC_002734	NC_002734
220	<i>Plesiolebias aruana</i>	1	AF092342	AF092342		AF002519		AF092409	AF092409
221	<i>Plesiolebias glaucopterus</i>	1	AF244429						
222	<i>Polymixia japonica</i>	0	NC_002648	NC_002648	NC_002648	NC_002648	NC_002648	NC_002648	NC_002648
223	<i>Porichthys (myriaster & notatus)</i>	0	NC_006920	NC_006920	NC_006920	NC_006920	NC_006920	NC_006920	NC_006920
224	<i>Pronothobranchius kiyawensis</i>	1	AF002348 & EU401665	AF002348 & EU401665	EU401665	AF002406		EU401645	
225	<i>Pterolebias longipinnis</i>	1	AF002426			AF002528		AF092415	AF092415
226	<i>Pterolebias phasianus</i>	1	AF092347	AF092347		AF002529		AF092414	AF092414

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
227	<i>Rachovia brevis</i>	1	AY850665	AY850665			AY850640	AY850640	AY850640
228	<i>Rachovia hummelincki</i>	1					AY850642	AY850642	AY850642
229	<i>Rachovia maculipinnis</i>	1	AY850664	AY850664		AF002522	AY850639	AY850639	AY850639
230	<i>Rachovia pyropunctata</i>	1	AY850666	AY850666			AY850641	AY850641	AY850641
231	<i>Renova oscar</i>	1	AF092346	AF092346		AF002527		AF092413	AF092413
232	<i>Anablepsoides amphoreus</i>	0	RAU41795			AF002550			
233	<i>Anablepsoides cryptocallus</i>	0	AF092327	AF092327				AF092394	AF092394
234	<i>Anablepsoides deltaphilus</i>	0	AF092328	AF092328		AF002548		AF092395	AF092395
235	<i>Anablepsoides hartii</i>	0	AF092326	AF092326		AF002551		AF092393	HQ405400 & AF092393
236	<i>Anablepsoides immaculatus</i>	0	RIU41797			AF002552			
237	<i>Anablepsoides iridescens</i>	0	AF092324	AF092324				AF092391	AF092391
238	<i>Anablepsoides jucundus</i>	0	AF092325	AF092325		AF002545		AF092392	AF092392
239	<i>Anablepsoides micropus</i>	0	AY578722	AY578722				AY578714	AY578714
240	<i>Anablepsoides ophiomimus</i>	0	AF092332	AF092332		AF002546		AF092399	AF092399
241	<i>Anablepsoides ornatus</i>	0	AF092323	AF092323				AF092390	AF092390
242	<i>Anablepsoides rubrolineatus</i>	0	AF002443			AF002547			
243	<i>Anablepsoides sp. Rio Supamo</i>	0	AF092329	AF092329		AF002549		AF092396	AF092396
244	<i>Anablepsoides stagnatus</i>	0	AF092331	AF092331		RSU73255		AF092398	AF092398
245	<i>Anablepsoides urophthalmus</i>	0	AY946278	AY946278				AY946273	AY946273
246	<i>Anablepsoides waimacui</i>	0	AF092330	AF092330				AF092397	AF092397
247	<i>Atlantirivulus haraldsiolii</i>	0	AF092312	AF092312				AF092379	AF092379
248	<i>Atlantirivulus janeiroensis</i>	0	AF002450			AF002563			
249	<i>Atlantirivulus luelingi</i>	0	AF092314	AF092314		AF002564		AF092381	AF092381
250	<i>Atlantirivulus santensis</i>	0	AF092313	AF092313		AF002565		AF092380	AF092380
251	<i>Cynodonichthys birkhahni</i>	0	AF002448			AF002557			
252	<i>Cynodonichthys brunneus</i>	0	AF092316	AF092316				AF092383	AF092383
253	<i>Cynodonichthys chucunaque</i>	0	AF002447			AF002556			
254	<i>Cynodonichthys frommi</i>	0	AF092317	AF092317				AF092384	AF092384
255	<i>Cynodonichthys fuscolineatus</i>	0	RFU41786			AF002562			
256	<i>Cynodonichthys hildebrandi</i>	0	RHU41791			AF002553			

	Species	Diapause II	12S	16S 5' end	16S middle	16S 3' end	ND1	ND2	Cox1 5' end
257	<i>Cynodonichthys isthmensis</i>	0	RIU41785			AF002561			
258	<i>Cynodonichthys magdalenae</i>	0	AF092315	AF092315		AF002555		AF092382	AF092382
259	<i>Cynodonichthys tenuis</i>	0	RTU41788			AF002558		AF092386	EU751964 & AF092386
260	<i>Cynodonichthys uroflammeus</i>	0	RUU41792			AF002554			
261	<i>Cynodonichthys weberi</i>	0	AF092318	AF092318		AF002560		AF092385	AF092385
262	<i>Laimosemion agilae</i>	0	AF092310	AF092310		AF002536		AF092377	AF092377
263	<i>Laimosemion breviceps</i>	0	AF092309	AF092309				AF092376	AF092376
264	<i>Laimosemion dibaphus</i>	0	AY578726	AY578726				AY578718	AY578718
265	<i>Laimosemion frenatus</i>	0	AF002435			AF002539		AF092378	AF092378
266	<i>Laimosemion geayi</i>	0	AF002433			AF002537		AY946274	AY946274
267	<i>Laimosemion gransabanae</i>	0	AF092308	AF092308				AF092375	AF092375
268	<i>Laimosemion kirovskyi</i>	0	AY578719	AY578719				AY578711	AY578711
269	<i>Laimosemion lyricauda</i>	0	AY578725	AY578725		AF002543		AY578717	AY578717
270	<i>Laimosemion mahdiaensis</i>	0	DQ501248			DQ501249			
271	<i>Laimosemion rectocaudatus</i>	0	AY578724	AY578724		AF002544		AY578716	AY578716
272	<i>Laimosemion sp. DCT 89-132</i>	1	AF002438			AF002542			
273	<i>Laimosemion sp. Tobogon</i>	0	AF092306	AF092306		AF002541		AF092373	AF092373
274	<i>Laimosemion strigatus</i>	0	AY578721	AY578721		AF002538		AY578713	AY578713
275	<i>Laimosemion tecminae</i>	1	AF092307	AF092307				AF092374	AF092374
276	<i>Laimosemion xiphidius</i>	0	AF002436			AF002540			
277	<i>Melanorivulus apiamici</i>	0	AF002453			AF002566			
278	<i>Melanorivulus pictus</i>	0	AF092321	AF092321				AF092388	AF092388
279	<i>Melanorivulus punctatus</i>	0	AF092322	AF092322		AF002567		AF092389	AF092389
280	<i>Melanorivulus violaceus</i>	0	AF092320	AF092320		AF002568		AF092387	AF092387
281	<i>Rivulus berovidesi</i>	0							
282	<i>Rivulus cylindraceus</i>	0	AF092304	AF092304		AF002533		AF092371	FN544251 & AF092371
283	<i>Rivulus roloffii</i>	0	AF092305	AF092305		AF002534		AF092372	AF092372
284	<i>Scriptaphyosemion banforense</i>	0	AF000679						
285	<i>Scriptaphyosemion bertholdi</i>	0	AF000680						
286	<i>Scriptaphyosemion breuningii</i>	0	AF000681						

[illegible]

Table S1 (continued). Taxon sampling, character scoring, and GenBank accession numbers. Taxa names which were updated from Furness et al. (2015) are highlighted in green, and added taxa and GenBank numbers are highlighted in yellow.

	Species	Cox1 3' end	cytb	tRNA-Ile-G In-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
1	<i>Anableps anableps</i>		EF017508	AF449341	AF449341	EF017456		EF017405	
2	<i>Aphredoderus sayanus</i>	NC_004372	NC_004372	NC_004372	NC_004372	NC_004372		FJ215201	DQ028169
3	<i>Moema peruensis</i>	AF002638	AF002506	AF092407	AF092407	AF092340		EF455718	
4	<i>Aphyosemion ahli</i>	DQ267386 & EF417000	EU272807		EF417000		DQ284716		EF417231
5	<i>Aphyosemion alpha</i>	DQ267387	EU056925				DQ284717		
6	<i>Aphyosemion aureum</i>		AF002317						
7	<i>Aphyosemion australe</i>	EF417018	EU272816		EF417018				EF417249
8	<i>Aphyosemion bamilekorum</i>		DQ981778						
9	<i>Aphyosemion batesii</i>		AF002286						
10	<i>Aphyosemion bitaeniatum</i>	DQ267390	DQ522281				DQ284720		
11	<i>Aphyosemion bivittatum</i>	DQ267392	DQ522261				DQ284722		
12	<i>Aphyosemion bualanum</i>		AF002303						
13	<i>Aphyosemion calliurum</i>	EU282842 & EF417020	DQ981781		EF417020		EU282843		EF417257
14	<i>Aphyosemion cameronense</i>		AY748280						
15	<i>Aphyosemion campomaanense</i>		EU272811						
16	<i>Aphyosemion celiae</i>	EF417036	EU885234		EF417036				EF417271
17	<i>Aphyosemion christyi</i>		AF002322						
18	<i>Aphyosemion citrineipinnis</i>		AF002318						
19	<i>Aphyosemion coeleste</i>		AF002319						
20	<i>Aphyosemion cognatum</i>		AF002323						
21	<i>Aphyosemion congium</i>		AF002330						
22	<i>Aphyosemion cyanostictum</i>		AF002305						
23	<i>Aphyosemion decorsei</i>		AF002325						
24	<i>Aphyosemion ecucuense</i>		EU249508						
25	<i>Aphyosemion edeanum</i>	EU282848 & EF417039	EU272815		EF417039		EU282849		EF417247
26	<i>Aphyosemion elberti</i>		DQ981776	AF092355	AF092355	AF092288			

	Species	Cox1 3' end	cytb	tRNA-Ile-G In-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
27	<i>Aphyosemion elegans</i>		AF002328						
28	<i>Aphyosemion erythron</i>		EU249499						
29	<i>Aphyosemion etsamense</i>		AY748294						
30	<i>Aphyosemion exigoideum</i>		AF002308						
31	<i>Aphyosemion exiguum</i>		DQ981777						
32	<i>Aphyosemion franzwernerii</i>	EF417043	EU885237		EF417043				EF417275
33	<i>Aphyosemion gabunense</i>		AF002309						
34	<i>Aphyosemion georgiae</i>		DQ981775						
35	<i>Aphyosemion heinemanni</i>	EF417045	EU885236		EF417045				EF417248
36	<i>Aphyosemion hera</i>								
37	<i>Aphyosemion herzogi</i>		EU885235						
38	<i>Aphyosemion kouamense</i>	EF063365	EU056928				EF143412		
39	<i>Aphyosemion kounqueense</i>		EU056927						
40	<i>Aphyosemion labarrei</i>		AF002321						
41	<i>Aphyosemion lamberti</i>		AF002329						
42	<i>Aphyosemion lividum</i>	EU282845					EU282846		
43	<i>Aphyosemion loennbergii</i>	DQ267320	DQ342225				DQ284650		
44	<i>Aphyosemion louessense</i>		AF002310						
45	<i>Aphyosemion lugens</i>	DQ267354	EU885232				DQ284684		
46	<i>Aphyosemion maculatum</i>		AF002315						
47	<i>Aphyosemion malumbresi</i>	EF063369	EU249501				EF143415		
48	<i>Aphyosemion melanogaster</i>	DQ267300	EU249513				DQ284630		
49	<i>Aphyosemion melinoeides</i>		EU056933						
50	<i>Aphyosemion mimbon</i>		AY748287						
51	<i>Aphyosemion occellatum</i>		AF002320						
52	<i>Aphyosemion ogoense</i>		AF002311						
53	<i>Aphyosemion omega</i>		EU056934						
54	<i>Aphyosemion pascheni</i>	EF417046			EF417046				EF417277

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
55	<i>Aphyosemion pascheni-festivum</i>	EU282839 & EF417040			EF417040		EU282840		EF417272
56	<i>Aphyosemion poliaki</i>	DQ267275	EU056935				DQ284605		
57	<i>Aphyosemion primigenium</i>		AF002312						
58	<i>Aphyosemion punctatum</i>		AF002332						
59	<i>Aphyosemion punctulatum</i>	DQ267362	EU056936				DQ284692		
60	<i>Aphyosemion rectogoense</i>		AF002331						
61	<i>Aphyosemion riggenbachi</i>	DQ267409	DQ342220				DQ284738		
62	<i>Aphyosemion sp. 08 RS-2007</i>		EU056938						
63	<i>Aphyosemion sp. Bimbia</i>		EU056939						
64	<i>Aphyosemion sp. Bioko</i>		EU056940						
65	<i>Aphyosemion sp. LEC 93/27</i>		AF002307						
66	<i>Aphyosemion sp. Oba</i>	EF185309							
67	<i>Aphyosemion sp. Rio Muni</i>	DQ267397					DQ284727		
68	<i>Aphyosemion splendopleure</i>	DQ267268	EU056942				DQ284598		
69	<i>Aphyosemion striatum</i>		AF002313						
70	<i>Aphyosemion vulcanum</i>	DQ267284	AF002306				DQ284614		
71	<i>Aphyosemion wildekampi</i>		AF002333						
72	<i>Aplocheilichthys blockii</i>								
73	<i>Aplocheilichthys lineatus</i>		ALU73282						
74	<i>Aplocheilichthys panchax</i>	NC_011176	NC_011176	NC_011176	NC_011176	NC_011176		EF455705	EF417190
75	<i>Aplocheilichthys parvus</i>								
76	<i>Archiaphyosemion guineense</i>		AF000711	FJ872058					FJ872045
77	<i>Astronotus ocellatus</i>	NC_009058	NC_009058	NC_009058	NC_009058	NC_009058		EF095671	
78	<i>Austrofundulus guajira</i>			AY850650	AY850650	AY850673			
79	<i>Austrofundulus lehoignei</i>			AY850656	AY850656	AY850679			
80	<i>Austrofundulus leoni</i>			AY850654	AY850654	AY850677			

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
81	<i>Austrofundulus limnaeus</i>	AF002589	ALU73300	AY850647	AY850647	AY850670			
82	<i>Austrofundulus rupununi</i>			AY850658	AY850658	AY850681			
83	<i>Austrofundulus transilis</i>		AF002469	AY850661	AY850661	AY850684		EF455715	
84	<i>Austrolebias adloffii</i>		AF245009						
85	<i>Austrolebias affinis</i>	AF002579	AF245464						
86	<i>Austrolebias alexandri</i>		AF245011	AF092369	AF092369	AF092302			
87	<i>Austrolebias bellottii</i>		AF245007	AF092370	AF092370	AF092303			
88	<i>Austrolebias charrua</i>		AY724390						
89	<i>Austrolebias cheradophilus</i>		AF245467						
90	<i>Austrolebias cinereus</i>		AF245005						
91	<i>Austrolebias cyaneus</i>		AF245461						
92	<i>Austrolebias gymnoventris</i>		AF245463						
93	<i>Austrolebias luteoflammulatus</i>		AF245459						
94	<i>Austrolebias melanoorus</i>		AY724373						
95	<i>Austrolebias nigripinnis</i>		AF245013						
96	<i>Austrolebias nigrofasciatus</i>		AY724407						
97	<i>Austrolebias prognathus</i>		AF245458						
98	<i>Austrolebias reicherti</i>		AY724392						
99	<i>Austrolebias sp. duraznensis</i>		AF245012						
100	<i>Austrolebias vazferreirai</i>		AF245457						
101	<i>Austrolebias viarius</i>		AF245456						
102	<i>Austrolebias wolterstorffi</i>		AF245014						
103	<i>Callopanchax huwaldi</i>		AF000698						
104	<i>Callopanchax monroviae</i>								
105	<i>Callopanchax occidentalis</i>		AF000696	AF092360	AF092360				FJ872048
106	<i>Callopanchax sidibeorum</i>		AF000700						
107	<i>Callopanchax toddi</i>		AF000699						

	Species	Cox1 3' end	cytb	tRNA-Ile-G In-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
108	<i>Campellolebias chrysolineatus</i>		AF002464						
109	<i>Campellolebias dorsimaculatus</i>	AF002584	AF002465	AF092362	AF092362	AF092295			
110	<i>Chauliodus sloani</i>	AP002915	AP002915	AP002915	AP002915	AP002915		GQ860327	
111	<i>Cynopoecilus melanotaenia</i>		AF245465	AF092363	AF092363	AF092296			
112	<i>Cyprinodon rubrofluvialis</i>	NC_009125	NC_009125	NC_009125	NC_009125	NC_009125			
113	<i>Danio rerio</i>	NC_002333	NC_002333	NC_002333	NC_002333	NC_002333		NM131389	AF398343
114	<i>Epiplatys bifasciatus</i>								EF417193
115	<i>Epiplatys chaperi</i>		AF000693						
116	<i>Epiplatys infra fasciatus</i>		DQ981783						
117	<i>Nimbapanchax maeseni</i>		AF000712						
118	<i>Epiplatys multifasciatus</i>		AF000692						
119	<i>Epiplatys roloffi</i>		AF000694						
120	<i>Epiplatys sexfasciatus</i>			FJ872061					FJ872049
121	<i>Epiplatys singa</i>			AF092358	AF092358	AF092291			
122	<i>Episemion callipteron</i>		DQ981774						
123	<i>Episemion krystallinoron</i>		DQ981769						
124	<i>Esox lucius</i>	NC_004593	NC_004593	NC_004593	NC_004593	NC_004593		AY380542	AY158056
125	<i>Fenerbahce formosus</i>		AF002408						
126	<i>Foerschichthys flavipinnis</i>		AF002409						
127	<i>Fundulopanchax amieti</i>		AF002294						

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
128	<i>Fundulopanchax cinnamomeus</i>		AF002296						
129	<i>Fundulopanchax deltaense</i>		AF002290						
130	<i>Fundulopanchax fallax</i>		AF002291						
131	<i>Fundulopanchax filamentosus</i>		AF002287						DQ533033
132	<i>Fundulopanchax gardneri</i>		AF002297	AF092356	AF092356	AF092289			
133	<i>Fundulopanchax gularis</i>		AF002292						
134	<i>Fundulopanchax mirabilis</i>		FMU73294						
135	<i>Fundulopanchax ndianus</i>		AF002295						
136	<i>Fundulopanchax oeseri</i>		AF002298						
137	<i>Fundulopanchax robertsoni</i>		AF002288						
138	<i>Fundulopanchax scheeli</i>		AF002299						
139	<i>Fundulopanchax schwoiseri</i>		AF002293						
140	<i>Fundulopanchax sjostedti</i>		DQ981782						
141	<i>Fundulopanchax walkeri</i>		AF002289						
142	<i>Fundulus diaphanus</i>	NC_012361	NC_012361	NC_012361	NC_012361	NC_012361		GQ119877	
143	<i>Fundulus grandis</i>	NC_012377	NC_012377	NC_012377	NC_012377	NC_012377		GQ119886	
144	<i>Fundulus heteroclitus</i>	NC_012312	NC_012312	NC_012312	NC_012312	NC_012312		GQ119890	AY655692
145	<i>Fundulus olivaceus</i>	NC_011380	NC_011380	NC_011380	NC_011380	NC_011380		GQ119912	
146	<i>Gadus morhua</i>	NC_002081	NC_002081	NC_002081	NC_002081	NC_002081		AF369064	
147	<i>Gambusia affinis</i>	NC_004388	NC_004388	NC_004388	NC_004388	NC_004388		EF017411	AF152163

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
148	<i>Gasterosteus aculeatus</i>	NC_003174	NC_003174	NC_003174	NC_003174	NC_003174		EF033039	DQ028178
149	<i>Glossanodon semifasciatus</i>	AP004105	AP004105	AP004105	AP004105	AP004105			
150	<i>Gnatholebias hoignei</i>		AF002471			EF455701		EF455712	
151	<i>Gnatholebias zonatus</i>			AF092419	AF092419	AF092352		EF455711	
152	<i>Hippoglossus hippoglossus</i>	NC_009709	NC_009709	NC_009709	NC_009709	NC_009709		FJ769824	EU057700
153	<i>Jordanella floridae</i>	NC_011387	NC_011387	NC_011387	NC_011387	NC_011387			DQ533046
154	<i>Kryptolebias brasiliensis</i>			AY946276	AY946276	AY946281		EF455707	
155	<i>Kryptolebias caudomarginatus</i>		AF002478	AF092361	AF092361	AF092294			
156	<i>Kryptolebias marmoratus</i>	NC_003290	NC_003290	NC_003290	NC_003290	NC_003290			
157	<i>Kryptolebias ocellatus</i>	AF002599	AF002480						
158	<i>Kryptolebias sepia</i>			AY946272	AY946272	AY946277			
159	<i>Lamprogrammus niger</i>	NC_004378	NC_004378	NC_004378	NC_004378	NC_004378			
160	<i>Leptopanchax aureoguttatus</i>	AF002581	AF002462						
161	<i>Leptopanchax citrinipinnis</i>	AF002582	LCU73299						
162	<i>Llanolebias stellifer</i>			AF092420	AF092420	AF092353		EF455713	
163	<i>Lophius (americanus & piscatorius)</i>	NC_004380	NC_004380	NC_004380	NC_004380	NC_004380		AY308786	AY372751
164	<i>Lutjanus russellii</i>	NC_010963	NC_010963	NC_010963	NC_010963	NC_010963		EU627667	
165	<i>Lycodes (toyamensis & diapterus & brevipes)</i>	NC_004409	NC_004409	NC_004409	NC_004409	NC_004409		EU167890	AY539166
166	<i>Maratecoara formosa</i>			AF092411	AF092411	AF092344			
167	<i>Maratecoara lacortei</i>	AF002585	AF002466	AF092410	AF092410	AF092343			

	Species	Cox1 3' end	cytb	tRNA-Ile-G In-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
16 8	<i>Menidia menidia</i>	NC_011174	NC_011174	NC_011174	NC_011174	NC_011174		AY430225	AY539074
16 9	<i>Micromoema xiphophora</i>			AF092418	AF092418	AF092351		EF455720	
17 0	<i>Millerichthys robustus</i>	PP330845	PP330845	PP330845	PP330845	PP330845			
17 1	<i>Moema piriana</i>	AF002639	AF002507						
17 2	<i>Moema staecki</i>	AF002640		AF092406	AF092406	AF092339			
17 3	<i>Monopterus albus</i>	NC_003192	NC_003192	NC_003192	NC_003192	NC_003192			DQ533072
17 4	<i>Morone (saxatilis & chrysops)</i>	NC_014353	NC_014353	NC_014353	NC_014353	NC_014353		AY308767	AY539150
17 5	<i>Mugil cephalus</i>	NC_003182	NC_003182	NC_003182	NC_003182	NC_003182		EF095639	AY655693
17 6	<i>Myripristis (berndti & botche)</i>	NC_003189	NC_003189	NC_003189	NC_003189	NC_003189			AY141517S
17 7	<i>Nematolebias whitei</i>	AF002577	KF311324	AF092365	AF092365	AF092298			
17 8	<i>Neofundulus ornatipinnis</i>			AF092403	AF092403	AF092336			
17 9	<i>Neofundulus paraguayensis</i>	AF002643	AF002510	AF092405	AF092405	AF092338		EF455722	
18 0	<i>Neofundulus sp. Paraguay</i>			AF092404	AF092404	AF092337			
18 1	<i>Neoscopelus (microchir & macrolepidotus)</i>	NC_003180	NC_003180	NC_003180	NC_003180	NC_003180		EU366727	DQ533075
18 2	<i>Nimbapanchax jeanpoli</i>			FJ872057					FJ872043
18 3	<i>Nimbapanchax leucopterygius</i>			FJ872054					FJ872040
18 4	<i>Nimbapanchax melanopterygius</i>			FJ872052					FJ872038
18 5	<i>Nimbapanchax petersi</i>		AF000714						FJ872044
18 6	<i>Nimbapanchax viridis</i>		AF000715	FJ872055					FJ872041
18 7	<i>Nothobranchius cardinalis</i>	EF464711							

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
188	<i>Nothobranchius eggersi</i>	EF464686				GU138042			
189	<i>Nothobranchius elongatus</i>					EU401647			
190	<i>Nothobranchius foerschi</i>	EF464687							
191	<i>Nothobranchius furzeri</i>	NC_011814	NC_011814	NC_011814	NC_011814	NC_011814			EU780557
192	<i>Nothobranchius guentheri</i>	EF464692							
193	<i>Nothobranchius hengstleri</i>	EF464709				EU401666			
194	<i>Nothobranchius jubbi</i>					EU401651			
195	<i>Nothobranchius kafuensis</i>					NKU73274 & GU138041			
196	<i>Nothobranchius kilomberoensis</i>	EF464693							
197	<i>Nothobranchius kirki</i>	AF002575	NKU73297						
198	<i>Nothobranchius krammeri</i>	EF464707							
199	<i>Nothobranchius krysanovi</i>	EF464700				GU138040			
200	<i>Nothobranchius kuhntae</i>	EF464695							
201	<i>Nothobranchius lucius</i>					EU401650			
202	<i>Nothobranchius makondorum</i>	EF464713				EU401654			
203	<i>Nothobranchius melanospilus</i>	EF464712				EU401659			
204	<i>Nothobranchius ocellatus</i>					EU401663			
205	<i>Nothobranchius orthonotus</i>	EF464696				EU401664			
206	<i>Nothobranchius pienaari</i>	EF464702				GU138038			
207	<i>Nothobranchius polli</i>					GU138033			

	Species	Cox1 3' end	cytb	tRNA-Ile-G ln-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
20 8	<i>Nothobranchius rachovii</i>	EF464703				GU138044			
20 9	<i>Nothobranchius rubroreticulatus</i>					GU138032			
21 0	<i>Fundulosoma thierryi</i>		AF002284						
21 1	<i>Notholebias minimus</i>	AF002583	AF002463	AF092364	AF092364	AF092297			
21 2	<i>Oncorhynchus mykiss</i>	NC_001717	NC_001717	NC_001717	NC_001717	NC_001717		NM00112473 7	OMU3434 1
21 3	<i>Oreochromis (niloticus & tanganicae & aureus)</i>	NC_013663	NC_013663	NC_013663	NC_013663	NC_013663		DQ012223	GU289229
21 4	<i>Oryzias latipes</i>	NC_004387	NC_004387	NC_004387	NC_004387	NC_004387		EF095641	AF398344
21 5	<i>Pachypanchax omalonotus</i>		PHU73284						
21 6	<i>Pachypanchax playfairii</i>		PPU73285						DQ533086
21 7	<i>Papiliolebias bitteri</i>	AF002588		AF092408	AF092408	AF092341			
21 8	<i>Pituna poranga</i>	AF002586	AF002467	AF092412	AF092412	AF092345			
21 9	<i>Plecoglossus altivelis</i>	NC_002734	NC_002734	NC_002734	NC_002734	NC_002734		AY380536	
22 0	<i>Plesiolebias aruana</i>	AF002587	AF002468	AF092409	AF092409	AF092342			
22 1	<i>Plesiolebias glaucopterus</i>		AF245468						
22 2	<i>Polymixia japonica</i>	NC_002648	NC_002648	NC_002648	NC_002648	NC_002648		AY308765	DQ533098
22 3	<i>Porichthys (myriaster & notatus)</i>	NC_006920	NC_006920			NC_006920			DQ533101
22 4	<i>Pronothobranchius kiyawensis</i>	EF464705	AF002285			AF002348 & EU401665			
22 5	<i>Pterolebias longipinnis</i>	AF002595	AF002476	AF092415	AF092415			EF455709	EF417191
22 6	<i>Pterolebias phasianus</i>	AF002596	AF002477	AF092414	AF092414	AF092347		EF455710	
22 7	<i>Rachovia brevis</i>			AY850640	AY850640	AY850665			

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
228	<i>Rachovia hummelincki</i>			AY850642	AY850642				
229	<i>Rachovia maculipinnis</i>	AF002590	AF002470	AY850639	AY850639	AY850664		EF455714	
230	<i>Rachovia pyropunctata</i>			AY850641	AY850641	AY850666			
231	<i>Renova oscari</i>	AF002594	AF002475	AF092413	AF092413	AF092346		EF455721	
232	<i>Anablepsoides amphoreus</i>		RAU41777						
233	<i>Anablepsoides cryptocallus</i>		RCU41776	AF092394	AF092394	AF092327			
234	<i>Anablepsoides deltaphilus</i>	AF002616	AF002494	AF092395	AF092395	AF092328			
235	<i>Anablepsoides hartii</i>	AF002619	HQ612222	AF092393	AF092393	AF092326			
236	<i>Anablepsoides immaculatus</i>	AF002620	RIU41779						
237	<i>Anablepsoides iridescens</i>			AF092391	AF092391	AF092324			
238	<i>Anablepsoides jucundus</i>	AF002612	AF002491	AF092392	AF092392	AF092325			
239	<i>Anablepsoides micropus</i>			AY578714	AY578714	AY578722			
240	<i>Anablepsoides ophiomimus</i>	AF002613	AF002492	AF092399	AF092399	AF092332			
241	<i>Anablepsoides ornatus</i>			AF092390	AF092390	AF092323			
242	<i>Anablepsoides rubrolineatus</i>	AF002614	AF002493						
243	<i>Anablepsoides sp. Rio Supamo</i>		AF002495	AF092396	AF092396	AF092329			
244	<i>Anablepsoides stagnatus</i>	AF002615	RSU41774	AF092398	AF092398	AF092331			
245	<i>Anablepsoides urophthalmus</i>			AY946273	AY946273	AY946278			
246	<i>Anablepsoides waimacui</i>			AF092397	AF092397	AF092330			
247	<i>Atlantirivulus haraldioli</i>			AF092379	AF092379	AF092312			

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
248	<i>Atlantirivulus janeiroensis</i>	AF002632	AF002500						
249	<i>Atlantirivulus luelingi</i>	AF002633	AF002501	AF092381	AF092381	AF092314			
250	<i>Atlantirivulus santensis</i>	AF002634	AF002502	AF092380	AF092380	AF092313		EF455708	
251	<i>Cynodonichthys birkhahni</i>	AF002625	AF002498						
252	<i>Cynodonichthys brunneus</i>			AF092383	AF092383	AF092316			
253	<i>Cynodonichthys chucunaque</i>	AF002624	AF002497						
254	<i>Cynodonichthys frommi</i>			AF092384	AF092384	AF092317			
255	<i>Cynodonichthys fuscolineatus</i>	AF002631	RFU41770						
256	<i>Cynodonichthys hildebrandi</i>	AF002621	RHU44746						
257	<i>Cynodonichthys isthmensis</i>	AF002630	RIU41769						
258	<i>Cynodonichthys magdalenae</i>	AF002623	RMU41773	AF092382	AF092382	AF092315			
259	<i>Cynodonichthys tenuis</i>	AF002626	RTU41771	AF092386	AF092386				
260	<i>Cynodonichthys uroflammeus</i>	AF002622	RUU41775						
261	<i>Cynodonichthys weberi</i>	AF002629	RWU41768	AF092385	AF092385	AF092318			
262	<i>Laimosemion agilae</i>	AF002603	AF002482	AF092377	AF092377	AF092310			
263	<i>Laimosemion breviceps</i>			AF092376	AF092376	AF092309			
264	<i>Laimosemion dibaphus</i>			AY578718	AY578718	AY578726			
265	<i>Laimosemion frenatus</i>	AF002606	AF002485	AF092378	AF092378				
266	<i>Laimosemion geayi</i>	AF002604	AF002483	AY946274	AY946274				
267	<i>Laimosemion gransabanae</i>			AF092375	AF092375	AF092308			

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
268	<i>Laimosemion kirovskyi</i>			AY578711	AY578711	AY578719			
269	<i>Laimosemion lyricauda</i>	AF002610	AF002489	AY578717	AY578717	AY578725			
270	<i>Laimosemion mahdiaensis</i>		DQ501250						
271	<i>Laimosemion rectocaudatus</i>	AF002611	AF002490	AY578716	AY578716	AY578724			
272	<i>Laimosemion sp. DCT 89-132</i>	AF002609	AF002488						
273	<i>Laimosemion sp. Tobogon</i>	AF002608	AF002487	AF092373	AF092373	AF092306			
274	<i>Laimosemion strigatus</i>	AF002605	AF002484	AY578713	AY578713	AY578721			
275	<i>Laimosemion tecminae</i>			AF092374	AF092374	AF092307			
276	<i>Laimosemion xiphidius</i>	AF002607	AF002486						EF417192
277	<i>Melanorivulus apiamici</i>	AF002635	AF002503						
278	<i>Melanorivulus pictus</i>			AF092388	AF092388	AF092321			
279	<i>Melanorivulus punctatus</i>	AF002636	AF002504	AF092389	AF092389	AF092322			
280	<i>Melanorivulus violaceus</i>	AF002637	AF002505	AF092387	AF092387	AF092320			
281	<i>Rivulus berovidesi</i>		HG970030						
282	<i>Rivulus cylindraceus</i>	AF002601	HG970016	AF092371	AF092371	AF092304			
283	<i>Rivulus roloffii</i>	AF002602	RRU41780	AF092372	AF092372	AF092305			
284	<i>Scriptaphyosemion banforense</i>		AF000701						
285	<i>Scriptaphyosemion bertholdi</i>		AF000702						
286	<i>Scriptaphyosemion breuningii</i>		AF000703						
287	<i>Scriptaphyosemion chaytori</i>		AF000704						

	Species	Cox1 3' end	cytb	tRNA-Ile-G In-Met	tRNA-Trp- Asn-Cys-Ty r	tRNA-Val	d-loop	Rag1	28S
28 8	<i>Scriptaphyosemion etzeli</i>		AF000707						
28 9	<i>Scriptaphyosemion geryi</i>	AF002574	AF000708	AF092359	AF092359	AF092292			FJ872047
29 0	<i>Scriptaphyosemion guignardi</i>		AF000710	EF455703	EF455703	EF455700		EF455706	
29 1	<i>Scriptaphyosemion liberiense</i>		AF000706						
29 2	<i>Scriptaphyosemion roloffii</i>		AF000709						
29 3	<i>Scriptaphyosemion schmitti</i>		AF000705						
29 4	<i>Sebastes (ruberrimus & elongatus)</i>	EU008930	EU008930		EU008930	EU008930			AY539081
29 5	<i>Hypsolebias antenori</i>	AF002580	CAU73298						
29 6	<i>Ophthalmolebias bokermanni</i>			AF092367	AF092367	AF092300			
29 7	<i>Spectrolebias costai</i>	AF002578	AF002461						
29 8	<i>Hypsolebias magnificus</i>			AF092368	AF092368	AF092301			
29 9	<i>Xenurolebias myersi</i>			AF092366	AF092366	AF092299			
30 0	<i>Hypsolebias trilineatus</i>								
30 1	<i>Synodus variegatus</i>	NC_007228	NC_007228	NC_007228	NC_007228	NC_007228			DQ533129
30 2	<i>Takifugu rubripes</i>	NC_004299	NC_004299	NC_004299	NC_004299	NC_004299		AY700363	
30 3	<i>Terranotos dolichopterus</i>	AF002593	AF002474	AF092421	AF092421	AF092354		EF455716	
30 4	<i>Tetraodon (nigroviridis & fluviatilis)</i>	NC_007176	NC_007176	NC_007176	NC_007176	NC_007176		AY700355	AJ270041
30 5	<i>Trachyrincus murrayi</i>	NC_008224	NC_008224	NC_008224	NC_008224	NC_008224		FJ215297	AY372709
30 6	<i>Trigonectes aplocheiloides</i>			AF092400	AF092400	AF092333			
30 7	<i>Trigonectes balzanii</i>		AF002509	AF092401	AF092401	AF092334			

	Species	Cox1 3' end	cytb	tRNA-Ile-Gln-Met	tRNA-Trp-Asn-Cys-Tyr	tRNA-Val	d-loop	Rag1	28S
308	<i>Trigonectes rubromarginatus</i>	AF002642	TRU73301	AF092402	AF092402	AF092335		EF455723	
309	<i>Xenotoca eiseni</i>	NC_011381	NC_011381	NC_011381	NC_011381	NC_011381			
310	<i>Xiphophorus hellerii</i>	NC_013089	NC_013089	NC_013089	NC_013089	NC_013089		EF017445	
311	<i>Xiphophorus maculatus</i>	NC_011379	NC_011379	NC_011379	NC_011379	NC_011379		EF017448	
312	<i>Zeus faber</i>	NC_003190	NC_003190	NC_003190	NC_003190	NC_003190		FJ215202	DQ028175