

TABLE S2 | UCE statistics.

Order	Species	UCE Loci Collected	Total Base Pairs	Mean Contig Length	Median Contig Length	Minimum Contig Length	Maximum Contig Length	Contigs over 1,000 Base Pairs	95% Confidence Interval
Ophidiiformes	<i>Chilara taylori</i>	454	681.153	1,500.34	1,513.5	243	3.932	414	18,07
Gobiiformes	<i>Phaeoptyx pigmentaria</i>	449	373.381	831.58	820.0	418	4.030	34	9,87
Syngnathiformes	<i>Aulostomus chinensis</i>	462	724.382	1,567.93	1,596.0	479	3.110	422	17,39
Scombriformes	<i>Arripis trutta</i>	444	280.475	631.70	623.5	148	1.431	7	6,96
	<i>Scomber scombrus</i>	463	567.911	1,226.59	1,273.0	369	2.013	391	10,83
Carangiformes	<i>Lates calcarifer</i>	457	668.734	1,463.31	1,432.0	606	3.083	430	15,18
Cichliformes	<i>Cichla temensis</i>	463	735.814	1,589.23	1,620.0	329	3.194	443	14,06
Beloniformes	<i>Oryzias latipes</i>	470	545.208	1,160.02	1,173.0	379	2.361	398	9,18
Scorpaeniformes	<i>Acanthistius ocellatus</i>	460	636.417	1,383.52	1,384.5	429	3.161	426	12,47
	<i>Hemanthias leptus</i>	459	718.366	1,565.07	1,596.0	287	2.965	432	16,35
	<i>Pseudanthias pleurotaenia</i>	463	707.086	1,527.18	1,539.0	192	3.719	427	17,26
	<i>Epinephelus adscensionis</i>	461	678.602	1,472.02	1,488.0	363	2.686	438	12,32
	<i>Grammistes sexlineatus</i>	453	769.799	1,699.34	1,721.0	722	3.120	442	13,39
	<i>Perca flavescens</i>	459	730.469	1,591.44	1,604.0	318	3.265	431	16,28
	<i>Diplectrum formosum</i>	453	662.800	1,463.13	1,449.0	500	2.561	433	12,15
	<i>Hypoplectrus puella</i>	450	540.194	1,200.43	1,178.0	475	5.437	369	16,79
Centrarchiformes	<i>Lepomis cyanellus</i>	459	720.577	1,569.88	1,588.0	209	2.934	442	12,19
	<i>Microcanthus strigatus</i>	462	680.462	1,472.86	1,476.5	711	3.086	434	12,74



TABLE S2 | (Continued)

Order	Species	UCE Loci Collected	Total Base Pairs	Mean Contig Length	Median Contig Length	Minimum Contig Length	Maximum Contig Length	Contigs over 1,000 Base Pairs	95% Confidence Interval
Acanthuriformes	<i>Drepane africana</i>	462	570.650	1,235.17	1,237.5	639	2.498	424	9,18
	<i>Haemulon vittatum</i>	461	573.176	1,243.33	1,241.0	278	2.430	394	12,57
	<i>Lutjanus goreensis</i>	433	520.405	1,201.86	1,184.0	159	4.266	336	17,16
	<i>Monodactylus argenteus</i>	465	618.618	1,330.36	1,329.0	663	2.901	439	10,89
Uranoscopiformes	<i>Ammodytes hexapterus</i>	462	316.046	684.08	700.5	223	1.313	3	6,43
	<i>Cheimarrichthys fosteri</i>	460	254.723	553.75	555.5	217	1.410	3	6,98
	<i>Lesueurina platycephala</i>	461	677.728	1,470.13	1,532.0	196	2.895	411	16,92
	<i>Astroscopus ygraecum</i>	458	616.228	1,345.48	1,363.5	257	2.273	423	11,23
Acropomatiformes	<i>Acropoma japonicum</i>	459	760.150	1,656.10	1,663.0	168	3.212	443	16,00
	<i>Doederleinia berycoides</i>	442	515.274	1,165.78	1,170.5	291	1.985	383	9,28
	<i>Banjos banjos</i>	463	774.719	1,673.26	1,689.0	216	3.484	447	15,26
	<i>Neobathyclupea argentea</i>	463	536.307	1,158.33	1,190.0	268	2.230	363	11,51
	<i>Champsodon cf. snyderi</i>	436	381.932	875.99	921.5	218	1.730	166	14,18
	<i>Crystalloxytes cookei</i>	454	590.590	1,300.86	1,282.0	351	2.600	407	13,35
	<i>Dinolestes lewini</i>	460	647.625	1,407.88	1,429.0	489	2.419	424	11,90
	<i>Epigonus denticulatus</i>	316	293.474	928.72	946.0	163	1.713	113	13,19
	<i>Glaukosoma hebraicum</i>	466	631.916	1,356.04	1,374.5	466	2.196	437	9,91
	<i>Bathysphyraenops simplex</i>	400	332.945	832.36	854.5	197	1.557	53	8,89
	<i>Howella brodiei</i>	465	501.393	1,078.26	1,134.0	206	2.221	304	12,82
<i>Lateolabrax japonicus</i>	455	658.285	1,446.78	1,421.0	597	2.900	411	16,41	
<i>Hemilutjanus macrophthalmos</i>	463	588.248	1,270.51	1,292.0	411	2.339	421	9,77	



TABLE S2 | (Continued)

Order	Species	UCE Loci Collected	Total Base Pairs	Mean Contig Length	Median Contig Length	Minimum Contig Length	Maximum Contig Length	Contigs over 1,000 Base Pairs	95% Confidence Interval
Acropomatiformes	<i>Malakichthys griseus</i>	461	651.271	1,412.74	1,409.0	334	3.260	429	13,86
	<i>Malakichthys wakiyae</i>	437	468.530	1,072.15	1,073.0	225	1.726	324	8,85
	<i>Ostracoberyx dorygenys</i>	462	466.928	1,010.67	1,041.0	220	1.564	276	8,10
	<i>Parapriacanthus ransonneti</i>	458	482.255	1,052.96	1,054.0	430	1.935	300	8,37
	<i>Pempheris oualensis</i>	302	204.643	677.63	667.0	143	1.403	30	13,59
	<i>Pempheris schomburgkii</i>	442	535.820	1,212.26	1,206.0	238	5.901	338	19,62
	<i>Histiopertus typus</i>	459	479.023	1,043.62	1,085.0	207	1.437	304	9,67
	<i>Polyprion americanus</i>	437	495.607	1,134.11	1,121.0	546	2.315	374	9,10
	<i>Polyprion oxygeneios</i>	405	462.759	1,142.61	1,112.0	339	2.265	325	12,14
	<i>Scombrops gilberti</i>	439	218.924	498.69	492.0	189	1.162	2	6,70
	<i>Parascombrops philippinensis</i>	283	227.026	802.21	795.0	183	1.618	43	13,60
	<i>Parascombrops spinosus</i>	363	186.772	514.52	487.0	157	1.381	10	10,03
	<i>Synagrops bellus</i>	460	559.605	1,216.53	1,265.0	204	2.386	359	14,39
	<i>Synagrops japonicus</i>	397	412.772	1,039.73	1,047.0	248	1.809	253	10,81
<i>Stereolepis gigas</i>	463	743.496	1,605.82	1,638.0	282	3.029	442	14,04	

## Neotropical Ichthyology



This is an open access article under the terms of the Creative Commons Attribution License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited.

Distributed under Creative Commons CC-BY 4.0

© 2022 The Authors. Diversity and Distributions Published by SBI



Official Journal of the Sociedade Brasileira de Ictiologia

### HOW TO CITE THIS ARTICLE

- Smith WL, Ghedotti MJ, Domínguez-Domínguez O, McMahan CD, Espinoza E, Martin RP, Girard MG, Davis MP. Investigations into the ancestry of the Grape-eye Seabass (*Hemilutjanus macrophthalmos*) reveal novel limits and relationships for the Acropomatiformes (Teleostei: Percomorpha). *Neotrop Ichthyol.* 2022; 20(3):e210160. <https://doi.org/10.1590/1982-0224-2021-0160>