

Supplementary material

Table S1. Detailed information of the analyzed species in this study.

Species	Accession number	Size (bp)	AT%	Authors
<i>Aethaloperca rogae</i>	NC_022141	16,538	56.7	Zhuang, <i>et al.</i>
<i>Anyperodon leucogrammicus</i>	NC_012709	16,616	55.6	Lin, <i>et al.</i>
<i>Cephalopholis argus</i>	NC_022142	16,767	56.9	Zhuang, <i>et al.</i>
<i>Cephalopholis boenak</i>	NC_021134	16,771	57.0	Li, <i>et al.</i>
<i>Cephalopholis leopardus</i>	MW560467	16,585	55.2	Chen, <i>et al.</i>
<i>Cephalopholis miniata</i>	MW423580	16,585	55.3	Gong, <i>et al.</i>
<i>Cephalopholis sexmaculata</i>	NC_024100	16,589	55.4	Hsiao, <i>et al.</i>
<i>Cephalopholis sonnerati</i>	NC_022143	16,587	55.8	Zhuang, <i>et al.</i>
<i>Cephalopholis spiloparaea</i>	MW560468	16,587	55.3	Chen, <i>et al.</i>
<i>Cephalopholis urodeta</i>	NC_030057	16,592	55.7	Guo, <i>et al.</i>
<i>Cromileptes altivelis</i>	NC_021614	16,497	55.3	Qin, <i>et al.</i>
<i>Diploprion bifasciatum</i>	NC_026897	16,805	53.9	Wang, <i>et al.</i>
<i>Epinephelus akaara</i>	NC_011113	16,795	56.0	Zhuang, <i>et al.</i>
<i>Epinephelus amblycephalus</i>	OM370929	16,869	54.8	Chen, <i>et al.</i>
<i>Epinephelus areolatus</i>	NC_020785	16,893	55.6	He, <i>et al.</i>
<i>Epinephelus awoara</i>	NC_018773	16,802	55.8	Qu, <i>et al.</i>
<i>Epinephelus bleekeri</i>	NC_022848	17,227	54.9	Shu, <i>et al.</i>
<i>Epinephelus bontoides</i>	NC_028428	16,903	55.9	Hsiao, <i>et al.</i>
<i>Epinephelus bruneus</i>	NC_013820	16,686	55.0	Oh, <i>et al.</i>
<i>Epinephelus chlorostigma</i>	NC_032086	16,894	55.7	Chen, <i>et al.</i>
<i>Epinephelus coioides</i>	NC_011111	16,418	55.2	Zhuang, <i>et al.</i>
<i>Epinephelus corallicola</i>	NC_026731	16,647	55.3	Zheng, <i>et al.</i>
<i>Epinephelus epistictus</i>	NC_021462	16,920	55.4	Peng, <i>et al.</i>
<i>Epinephelus fasciatus</i>	NC_020782	16,682	55.8	Li, <i>et al.</i>
<i>Epinephelus fuscoguttatus</i>	NC_020046	16,648	56.1	Zhuang, <i>et al.</i>
<i>Epinephelus hexagonatus</i>	MW560469	16,872	55.0	Chen, <i>et al.</i>
<i>Epinephelus lanceolatus</i>	NC_011715	16,574	55.9	Chou, <i>et al.</i>
<i>Epinephelus latifasciatus</i>	NC_020784	16,389	55.0	Lai, <i>et al.</i>
<i>Epinephelus malabaricus</i>	NC_028406	16,423	55.3	Zhu, <i>et al.</i>
<i>Epinephelus merra</i>	NC_022509	17,017	54.8	Miya, <i>et al.</i>
<i>Epinephelus moara</i>	NC_017891	16,696	55.0	Liu, <i>et al.</i>
<i>Epinephelus quoyans</i>	NC_021450	16,797	56.5	Peng, <i>et al.</i>
<i>Epinephelus sexfasciatus</i>	NC_021765	16,786	55.6	Du, <i>et al.</i>
<i>Epinephelus stictus</i>	NC_021133	16,524	55.5	Ye, <i>et al.</i>
<i>Epinephelus tauvina</i>	NC_056898	16,787	55.0	Liang, <i>et al.</i>
<i>Epinephelus trimaculatus</i>	NC_021612	16,761	56.1	Ye, <i>et al.</i>
<i>Epinephelus tukula</i>	NC_024039	16,503	54.8	Yang, <i>et al.</i>
<i>Grammistes sexlineatus</i>	NC_024108	16,502	52.5	Xu, <i>et al.</i>
<i>Hyporthodus haifensis</i>	MW015093	16,525	55.7	Vella, <i>et al.</i>
<i>Hyporthodus octofasciatus</i>	NC_020047	16,545	56.0	Zhuang, <i>et al.</i>
<i>Hyporthodus septemfasciatus</i>	NC_013829	16,558	55.4	Oh, <i>et al.</i>
<i>Plectropomus areolatus</i>	NC_021405	16,770	56.4	Shen, <i>et al.</i>
<i>Plectropomus laevis</i>	NC_057260	16,774	56.9	Li, <i>et al.</i>
<i>Plectropomus leopardus</i>	NC_008449	16,714	56.8	Zhu, <i>et al.</i>
<i>Triso dermatopterus</i>	NC_022140	16,605	53.9	Zhuang, <i>et al.</i>
<i>Variola albimarginata</i>	NC_022139	16,768	56.1	Zhuang, <i>et al.</i>
<i>Variola louti</i>	NC_022138	16,770	56.2	Zhuang, <i>et al.</i>
Outgroups				
<i>Lates japonicus</i>	NC_034339	16,590	53.2	Satoh, <i>et al.</i>
<i>Pagrus major</i>	NC_003196	17,031	54.5	Miya, <i>et al.</i>