

**TABLE S1** | Voucher and Genbank accession numbers of the species analyzed in this study for COI gene. \*Only sequence obtained from the Bold System. CAS (California Academy of Sciences, San Francisco, USA), CIUFES (Coleção Ictiológica, Departamento de Oceanografia e Ecologia, Universidade Federal do Espírito Santo, Vitória, Brazil).

Species	Voucher codes	Accession number
<i>Acyrtus simon</i>	ARC: 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 (from CAS)	KY781571, KY781572, KY781573, KY781574, KY781575, KY781576, KY781577, KY781578, KY781579, KY781580, KY781581, KY781582, KY781583
<i>Acyrtus</i> sp. (Brazilian coast)	BA 618, 617 (from CIUFES)	KY781570, KY781569
<i>Acyrtus pauciradiatus</i>	CIUFES: 2475, 2481, 2503, 2548	ON256430, ON256431, ON256513, ON256514
<i>Acyrtus artius</i> *	TOB9193, BLZ7815, BZE8258, BZE8257, BLZ8109, BLZ8042, BLZ8043, BLZ7814, BLZ10162, BLZ10163, BLZ10119, BZLW8044, BLZ10205, BLZ5329	JQ842780, JQ841064, JQ841453, JQ841458, JQ841462, JQ841461, JQ841455, JQ841063, KJ616435, KJ616436, KJ616434, JQ841456, KJ616437, KJ616428
<i>Acyrtus lanthanum</i> *	BLZ8185, BLZ7283, BLZ7231, BLZ8215, BLZ10132, BLZ7284, BLZ8222, BLZ10173, BLZ10171, BLZ8136, BLZ7282, BZLW8222, BLZ10133	KJ616421, KJ616418, KJ616416, KJ616422, KJ616424, KJ616419, KJ616423, KJ616427, KJ616426, KJ616420, KJ616417, KJ616423, KJ616425
<i>Acyrtus arturo</i> *	CIRUV 020012, CIRUV 020011	MT942609, MT942610
<i>Acyrtus rubiginosus</i> *	TOB9344, LIDMA1520, BAHA8197, BAHA8195, BAH8196	JQ842779, BOLD:AAD2051, KJ616443, KJ616441, KJ616442
<i>Arcos</i> sp. *	KU149, WJC5006	AP004452, KY126068
<i>Arcos nudus</i> *	ELU1003	KJ616448
<i>Arcos erythroptus</i> *	AE1	KY656430
<i>Gobiesox maeandricus</i> *	MFC398	GU440331
<i>Gobiesox rhessodon</i> *	GR1	KY656427
<i>Gobiesox punctulatus</i> *	GP1	KY656424
<i>Parvicrepis parvipinnis</i> *	PP2	KJ616458
<i>Alabes scotti</i> *	–	KY126066
<i>Cochleoceps orientalis</i> *	CO1	KY656440
<i>Discotrema crinophila</i> *	DC1	KY656438
<i>Lepadichthys lineatus</i> *	–	KY126067
<i>Diamemichthys lineatus</i> *	DL2	KY656436
<i>Labracinus cyclophthalmus</i> *	ASIZP0802411	KU943561



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