

Supplementary Table S1 Summary of primers used, amplicon lengths, and PCR profiles.

Gene	Forward Primer	Reverse Primer	Amplicon length	PCR profiles	Annealing Temperature	Reference
COI	LoboF1	LoboR1	663 bp	denaturation at 95°C for 3 min; followed by 35 cycles of denaturation at 94°C for 30 s, annealing for 40 s, and extension at 72°C for 90 s; before a final extension at 72°C for 5 min.	46°C	[1]
16S rRNA	16SarL	16SbrH	473–479 bp		57°C	[2]
28S rRNA	C1	D2	772–773 bp		59°C	[3]

Reference

- [1] Lobo J, Costa PM, Teixeira MAL, Ferreira MSG, Costa MH, Costa FO (2013) Enhanced primers for amplification of DNA barcodes from a broad range of marine metazoans. *BMC Ecology* 13, 34
- [2] Palumbi SR, Martin A, Romano S, McMillan WO, Stice L, Grabowsky G (1991) 'The Simple Fool's Guide to PCR.' (Department of Zoology and Kewalo Marine Laboratory, University of Hawaii: Honolulu, Hawaii)
- [3] Jovelín R, Justine J-L (2001) Phylogenetic relationships within the polyopisthocotylean monogeneans (Platyhelminthes) inferred from partial 28S rDNA sequences. *International Journal for Parasitology* 31(4), 393–401