**Table S2.**  List of primers used in this study

|  |  |  |  |
| --- | --- | --- | --- |
| Gene | Primer name | Primer sequences (5' -> 3') | References\* |
| Mitochondrial |  |  |  |
| *COI* | Fish-F1 | TCAACCAACCACAAAGACATTGGCAC | Ward et al. (2005) |
|  | Fish-F2 | ACTTCAGGGTGACCGAAGAATCAGAA | Ward et al. (2005) |
| cytochrome *b* | ExoCBFwd | GGACTTATGAYTTGAAAAACCATCGTTG | Sevilla et al. (2007) |
|  | ExoCBRev | AACCTTCGACGTTCGGCTTACAAGGCCG | Sevilla et al. (2007) |
| 12S | 12SFor | AACTGGGATTAGATACCCCAC | Almada et al. (2005) |
|  | 12SRev | GGGAGAGTGACGGGCGGTGTG | Almada et al. (2005) |
| 16S | 16SFor | AAG CCTCGCCTGTTTACCAA | Almada et al. (2005) |
|  | 16SRev | CTGAACTCAGATCACGTAGG | Almada et al. (2005) |
| Nuclear |  |  |  |
| RAG-1 | Of2 | CTGAGCTGCAGTCAGTACCATAAGATGT | Holcroft (2004) |
|  | Or2 | CTGAGTCCTTGTGAGCTTCCATRAAYTT | Holcroft (2004) |
| TMO-4C4 | TMOF2 | GAKTGTTTGAAAATGACTCGCTA | Near et al. (2004) |
|  | TMOR2 | AAACATCYAAMGATATGATCATGC | Near et al. (2004) |

**\*REFERENCES**

Almada F, Almada VC, Guillemaud T, Wirtz P. 2005. Phylogenetic relationships of the north-eastern Atlantic and Mediterranean blenniids. Biol J Linn Soc **86:**283–295.

Holcroft NI. 2004. A molecular test of alternative hypotheses of tetraodontiform (Acanthomorpha: Tetraodontiformes) sister group relationships using data from the RAG1 gene. Molec Phylog Evol **32:**749–760.

Near TJ, Bolnick DI, Wainwright PC. 2004. Investigating phylogenetic relationships of sunfishes and black basses (Actinopterygii: Centrarchidae) using DNA sequences from mitochondrial and nuclear genes. Molec Phylog Evol **32:**344 –357.

Sevilla RG, Diez A, Noren M, Mouchel O, Jerome M, Verrez-Bagnis V, Van Pelt H, Favre-Krey L, Krey G, The Fishtrace Consortium, J. M. Bautista JM. 2007. Primers and polymerase chain reaction conditions for DNA barcoding teleost fish based on the mitochondrial cytochrome b and nuclear rhodopsin genes. Molec Ecol Notes **7:**730–734.

Ward RD, Zemlak TS, Innes BH, Last PR, Hebert PDN. 2005. DNA barcoding Australia’s fish species.Phil Trans Royal Soc Lond B **360:**1847–1857.