**Supplementary Table S2.** Primers and cycling conditions used for the molecular taxonomic identification of the fish and parasite species recovered from the Perdido region (north-western Gulf of Mexico).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Gen** | **Primers** | **Sequence** | **T°**  **Alignment** | **References** |
| Fish hosts | COI | FishF1 | 5'-tcaaccaaccacaaagacattggcac-3' | 52°C | Ward *et al*. (2005) |
| FishF2 | 5'-tcgactaatcataaagatatcggcac-3' |
| FishR1 | 5'-agacttctgggtggccaaagaatca-3' |
| FishR2 | 5'-acttcagggtgaccgaagaatcagaa-3' |
| Nematodes | 18S | D-1F | 5'-gcctataatggtgaaaccgcgaac-3' | 54°C | Wijova *et al.,* (2006) |
| D-1R | 5'-ccggttcaagccactgcgatta-3' |
| ITS | TW81 | 5'-gtttccgtaggtgaacctgc | 55°C | Joyce *et al*., (1994) |
| AB28 | 5'-atatgcttaagttcagcgggt |
| Cestodes | 28S | 502 | 5'-caagtaccgtgagggaaagttgc-3' | 50°C | García-Varela & Nadler, (2005) |
| 536 | 5'-gtcgataggactccctttg-3' |
| COI | Dice1F | 5'-attaaccctcactaaattwcnttrgatcataag-3' | 47°C | Van Steenkiste *et al*., (2015) |
| Dice11R | 5'-taatacgactcactatagcwgwachaaattthcgatc-3' |
| Dice14R | 5'-taatacgactcactatacchacmrtaaacatatgatg-3' |
| Copepods | COI | LCO1490 | 5'-ggtcaacaaatcataaagatattgg-3' | 40°C | Folmer *et al*., (1994) |
| HC02198 | 5'-taaacttcagggtgaccaaaaaatca-3' |