**Online Resource Table S1** Primers used for PCR amplification and sequencing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Marker** | **Primer name** | **Direction** | **Primer sequence (5'-3')** | **Usage** | **Cycling conditions** | **Reference** |
| *Diplostomum phoxini* | | | | | | |
| *cox*1 | MplatCOX1dF | F | TGTAAAACGACGGCCAGTTTWCITTRGATCATAAG | PCR & Seq | 94 °C (3 min); 30× [94 °C (30 s); 50 °C (30 s); 72 °C (60 s)]; 72 °C (10 min) | Moszczynska *et al.* (2009) |
| MplatCOX1dR | R | CAGGAAACAGCTATGACTGAAAYAAYAIIGGATCICCACC | PCR & Seq |
| Plat-diploCOX1F | F | CGTTTRAATTATACGGATCC | PCR & Seq |
| Plat-diploCOX1R | R | AGCATAGTAATMGCAGCAGC | PCR & Seq |
| 28S rDNA | digl2 | F | AAGCATATCACTAAGCGG | PCR & Seq | 94 °C (3 min); 40× [94 °C (30 s); 55°C (30 s); 72°C (60 s)]; 72 °C (7 min) | Tkach *et al.* (1999) |
| 1500R | R | GCTATCCTGAGGGAAACTTCG | PCR & Seq | Tkach *et al.* (2003) |
| 900F | F | CCGTCTTGAAACACGGACCAAG | Sequencing |  | Olson *et al.* (2003) |
| 300 | R | GTTCATGGCACTCCCTTTCAAC | Sequencing |  | Lockyer *et al.* (2003) |
| ECD2 | R | CTTGGTCCGTGTTTCAAGACGGG | Sequencing |  | Littlewood *et al.* (2000) |
| ITS1-5.8S-ITS2 | D1 | F | AGGAATTCCTGGTAAGTGCAAG | PCR | 94 °C (3 min); 30× [94 °C (1 min); 56 °C (1 min); 72 °C (2 min)]; 72 °C (5 min) | Galazzo *et al.* (2002) |
| D2 | R | CGTTACTGAGGGAATCCTGGT | PCR |
| BD1 | F | GTCGTAACAAGGTTTCCGTA | Sequencing |  |
| BD2b | R | TATGCTTAAATTCAGCGGGT | Sequencing |  |
| *Ampullaceana balthica* | | | | | | |
| ITS2 | RadITS2-News2F | F | TGTGTCGATGAAGAACGCAG | PCR & Seq | 94 °C (2 min); 30× [94 °C (30 s); 50 °C (30 s); 72 °C (30 s)]; 72 °C (7 min) | Almeyda-Artigas *et al.* (2000) |
| RadITS2-RixoR | R | TTCTATGCTTAAATTCAGGGG | PCR & Seq |  |

*Abbreviations*: *cox*1, cytochrome *c* oxidase subunit 1 gene; ITS, internal transcribed spacer; F, forward; R, reverse; Seq, sequencing

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