**SUPPLEMENTARY DATA 1**

**ARTICLE TITLE**: **Morphological characterisation and molecular phylogeny of zoonotic trematodes in the freshwater snail *Asolene platae***

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**Supplementary Table 1**. Oligonucleotide primers used in this study.

|  |  |  |
| --- | --- | --- |
| **Amplified region** | **Specific primer set** | **Reference** |
| **rRNA 28S** | LSU-5f: 5´-TAGGTCGACCCGCTGAAYTTAAGCA-3´LSU-1500r: 5´-GCTATCCTGAGGGAAACTTCG-3´ | (Tkach et al. 2003) |
| **ITS1**  | S20T2f: 5’-GGTAAGTGCAAGTCATAAGC-3’5.8s1: 5’-GCTGCGCTCTTCATCGACA-3’ | (Bartoli et al. 2000) |
| **mtCOXI** | DICE1f: 5´- ATTAACCCTCACTAAATTWCNTTRGATCATAAG-3´DICE14r: 5´-TAATACGACTCACTATACCHACMRTAAACATATGATG-3´ | (Van Steenkiste et al. 2015) |

**Bartoli, P., Jousson, O., Russell-Pinto, F.** (2000). The life cycle of *Monorchis parvus* (Digenea: Monorchiidae) demonstrated by developmental and molecular data. *Journal of Parasitology* **86**, 479-489.

**Tkach, V., Littlewood, T., Olson, P., Kinsella, J.M., Swiderski, Z.** (2003). Molecular phylogenetic analysis of the Microphalloidea Ward, 1901 (Trematoda: Digenea). *Systematic Parasitology* **56**, 1-15.

**Van Steenkiste, N., Locke, S., Castelin, M., Marcogliese, D., Abbott, C.** (2015). New primers for DNA barcoding of digeneans and cestodes (Platyhelminthes). *Molecular Ecology Resources* **15**, 945-952.

**Supplementary Table 2**. PCR conditions for genic regions amplified in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Amplified region** | **PCR step** | **Cycles** | **Temperature (°C)** | **Time** |
| rDNA 28S | Initial denaturalization | 1 | 95 | 3 min |
| Denaturalization | 35 | 95 | 30 sec |
| Annealing |  | 55 | 30 sec |
| Extension |  | 72 | 2 min |
| Final extension | 1 | 72 | 7 min |
| ITS1 | Initial denaturalization | 1 | 95 | 3 min |
| Denaturalization | 35 | 95 | 30 sec |
| Annealing | 55 | 30 sec |
| Extension | 72 | 2 min |
| Final extension | 1 | 72 | 7 min |
| mtCOXI | **Initial amplification cycles** |
| Initial denaturalization | 1 | 94 | 2 min |
| Denaturalization | 5 | 95 | 30 sec |
| Annealing | 48 | 40 sec |
| Extension | 72 | 1 min |
| **Re-amplification cycles** |
| Denaturalization | 40 | 95 | 30 se |
| Annealing | 56 | 40 sec |
| Extension | 72 | 2 min |
| Final extension | 1 | 72 | 15 min |