

1 **Supplementary File 2**

2 Primers used for DNA amplification of larval tissues and gut contents.

3

4 *Larval tissues: standard approach for 658 bp barcode fragment of the COI 5' gene*

5 LepF1: 5' ATTCAACCAATCATAAAGATATTGG 3'

6 LepR1: 5' TAAACTTCTGGATGTCCAAAAAATCA 3'

7

8 *Larval tissues: failure tracking for 406 bp / 307 bp COI 5' barcode gene fragments*

9 MLepF1: 5' GCTTTCCCACGAATAAATAATA 3'

10 MLepR1: 5' CCTGTTCCAGCTCCATTTTC 3'

11

12 *Gut content: next generation approach for the 350 bp barcode region of the internal transcribed spacer, ITS2*

13 ITS-S2F_t1: 5' TGTA AACGACGGCCAGTATGCGATACTTGGTGTGAAT 3'

14 ITS4_t1: 5' CAGGAAACAGCTATGACTCCTCCGCTTATTGATATGC 3'

15

16 *Gut content: next generation approach for the 163 bp barcode region of the plastid genome sequence, rbcL*

17 rbcLaF_t1: 5' TGTA AACGACGGCCAGTATGTCACCACAAACAGAGACTAAAGC 3'

18 MrbcL-163R_t1: 5' CAGGAAACAGCTATGACCGGTCCAYACAGYBGTCCA KGTACC 3'

19