**Supplementary material**

Table S1: Accession number of bat symbiotypes deposited at the Colección Zoológica, Yucatan, Mexico.

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| Bat species | Catalogue number |
| *Artibeus jamaicensis* | 1215, 1221, 1225, 1241 |
| *Chiroderma villosum* | 1212, 1213 |
| *Desmodus rotundus* | 1609, 1610, 1611 |
| *Eumops nanus* | 1612 |
| *Glossophaga mutica* | 1158, 1392 |
| *Molossus nigricans* | 1134, 1135, 1137 |
| *Mormoops megalophylla* | 1471, 1475, 1477, 1479, 1482, 1484, 1563, 1616 |
| *Noctilio leporinus* | 1613, 1614, 1615, |
| *Nyctinomops laticaudatus* | 1472, 1474, 1476, 1478, 1481, 1483, 1485, 1486, 1487, 1488, 1490 |
| *Peropteryx macrotis* | 1489 |
| *Pteronotus fulvus* | 1469, 1470, 1473, 1480 |
| *Pteronotus mesoamericanus* | 1157, 1159 |

Table S2: Accession numbers of vouchers deposited in the Colección Nacional de Helmintos, México.

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| Helminth species | Host species | Catalogue number |
| *Nudacotyle quartus* | *Chiroderma villosum*, *Artibeus jamaicensis* | 11739, 11740, 11741 |
| *Pygidiopsis macrostomum* | *Noctilio leporinus* | 11742 |
| *Urotrema minuta* | *Eumops nanus*, *Nyctinomops laticaudatus* | 11744, 11745, 11750 |
| *Limatulum* sp. 1 | *Pteronotus fulvus* | 11747, 11748, 11749 |
| *Limatulum* sp. 2 | *Eumops nanus* | 11751, 11752 |
| *Brachylecithum* sp. | *Nyctinomops laticaudatus* | 11746 |
| Lecithodendriidae gen. sp. | *Peropteryx macrotis* | 11743 |
| *Vampirolepis* sp. 1 | *Glossophaga mutica* | 11736 |
| *Vampirolepis* sp. 3 | *Nyctinomops laticaudatus* | 11738 |
| *Vampirolepis* sp. 2 | *Mormoops megalophylla* | 11737 |
| *Tricholeiperia* cf*. proencai* | *Noctilio leporinus* | 11753 |
| *Anoplostrongylus* sp. | *Nyctinomops laticaudatus* | 11754, 11764 |
| *Pseudocapillaria* sp. 1 | *Mormoops megalophylla*, *Pteronotus mesoamericanus* | 11755, 11759, 11765 |
| *Biacantha desmoda* | *Desmodus rotundus* | 11756 |
| Capillaridae gen. sp. | *Molossus nigricans* | 11757 |
| *Pseudocapillaria* sp. 2 | *Pteronotus fulvus* | 11758 |
| Spirurida fam. gen. sp. | *Eumops nanus* | 11760 |
| Anoplostrongylinae gen. sp. | *Mormoops megalophylla* | 11761 |
| *Linustrongylus pteronoti* | *Pteronotus fulvus* | 11762 |
| Strongylida fam. gen. sp. | *Pteronotus mesoamericanus* | 11763 |

Table S3: GenBank accession numbers for the sequences reported in this study.

|  |  |
| --- | --- |
| Helminths species | Accession numbers |
| *Tricholeiperia* cf*. proencai* | OP837303 |
| *Anoplostrongylus* sp. | OP837302 |
| *Pseudocapillaria* sp. 1 | OP837301 |
| *Vampirolepis* sp. 1 | OP837314 |
| *Vampirolepis* sp. 2 | OP837313 |
| *Vampirolepis* sp. 3 | OP837312 |
| *Nudacotyle quartus* | OP837304, OP837305, OP837311 |
| *Pygidiopsis macrostomum* | OP837308 |
| *Urotrema minuta* | OP837310 |
| *Limatulum* sp. 1 | OP837307 |
| *Limatulum* sp. 2 | OP837306 |
| *Brachylecithum* sp. | OP837309 |

Figure S1. Phylogenetic tree based on the Maximum Likelihood analysis constructed on partial large subunit ribosomal gene (28S) of Trichostrongylina from different hosts (likelihood = -4932.055941). The new sequences of the present study are in bold.

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Figure S2. Phylogenetic tree based on the Maximum Likelihood analysis constructed on partial large subunit ribosomal gene (28S) of the family Capillaridae from different hosts (likelihood = -7674.070390). The new sequences of the present study are in bold.

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