

Suppl. Material 2: Appendix 2: Multiple sequence alignment based on cytochrome c oxidase subunit 1 (*cox1*) sequences

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
KJ592465.1 *Phaeostigma notata*
KJ592551.1 *Dichrostigma flavipes*
KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
 KJ592465.1 *Phaeostigma notata*
 KJ592551.1 *Dichrostigma flavipes*
 KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
 KJ592465.1 *Phaeostigma notata*
 KJ592551.1 *Dichrostigma flavipes*
 KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
KJ592465.1 *Phaeostigma notata*
KJ592551.1 *Dichrostigma flavipes*
KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
 KJ592465.1 *Phaeostigma notata*
 KJ592551.1 *Dichrostigma flavipes*
 KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)
MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
KJ592465.1 *Phaeostigma notata*
KJ592551.1 *Dichrostigma flavipes*
KJ592580.1 *Xanthostigma xanthostigma*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)

MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)

MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)

MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)

MZ313522.1 *Ornatoraphidia flavilabris* (Olf.)

MZ313322.1 Ornithophilida flavilabris (Olfas)

MZ313523.1 *Omatoraphidia flavipes*
KJ1500465.1 *Rheocapitulum notatum*

KJ592465.1 *Phaeostigma notata*
KJ592466.1 *Dichotomius flavipes*

KJ592551.1 *Dichrostigma flavipes*
KJ592552.1 *Mycetophila communis*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)

MZ313519.1 *Ornithorhynchus flavilabris* (Ofla2)

MZ313520.1 *Ornatoraphidia flavilabris* (Ofla3)

MZ313520.1 Ornatoraphidia flavilabris (Ofla3)

MZ313521.1 Ornithoraphidia flavilobris (Ofla4)

MZ313322.1 Ornithodorida flavilabris (Olfas)

MZ313523.1 *Ornithorhynchus anatinus*

KJ592465.1 *Phaeostigma notata*

KJ592551.1 *Dichrostigma flavipes*

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)

MZ313519.1 *Ornatoraphidia flavilabris* (Ofla?)

MZ313519.1 *Ornatoraphidia flavilabris* (Ofla3)

MZ313320.1 Ornithophilida flavilabris (Ollas)

MZ313521.1 Onthophagidae flavilabris (Olla4)

MZ313522.1 *Ornithorhynchus flavilabris* (Olfers)

MZ313523.1 *Ornatoraphidia flavifrons*

KJ592465.1 *Phaeostigma notata*

KJ592551.1 *Dichrostigma flavipes*

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T A . . A . . . T . . A C A C .
T A . . A . . . T . . A C A C .
C A . . A . . A . . T T T . A .
. A . . A . . . T . . A . . A T T T . A .
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CTTCATTTAGCCGGTGTTCCTCAATTCTAGGAGCTATTAACCTTATTAC
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..C.....A..A.....T.....T.....T..C..C..
..C.....A..A.....T.....T.....C..C..
..C.....A..A.....T.....T.....C..C..
.....C.....A..A.....T.....T.....T.....
..C.....A.....A.....T.....T.....A.....T.....C..
T..A.....T..A..A..A..T..T.....T.....

MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313519.1 *Ornatoraphidia flavilabris* (Ofla2)
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 MZ313521.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
 KJ592465.1 *Phaeostigma notata*
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MZ313518.1 *Ornatoraphidia flavilabris* (Ofla1)
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 MZ313522.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313523.1 *Ornatoraphidia flavilabris* (Ofla6)
 KJ592465.1 *Phaeostigma notata*
 KJ592551.1 *Dichrostigma flavipes*
 KJ592580.1 *Xanthostigma xanthostigma*

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