

Suppl. Material 4: Appendix 4: Multiple sequences alignment based on 28S rRNA gene (28S) sequences.

MZ313530.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313531.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313532.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313533.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313534.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313535.1 *Ornatoraphidia flavilabris* (Ofla6)
 HM543373.1 *Ornatoraphidia flavilabris*
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 HM543378.1 *Dichrostigma flavipes*
 HM543375.1 *Subilla confinis*
 HM543358.1 *Puncha ratzeburgi*
 HM543360.1 *Xanthostigma xanthostigma*

Sequence logo showing the probability of each nucleotide (A, T, C, G) at each position in the sequence. The x-axis represents positions 1 to 45. The y-axis shows probabilities for A, T, C, and G.

The sequence starts with CCCGAAAGGT... and ends with ...CTTTCTTC.

MZ313530.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313531.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313532.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313533.1 *Ornatoraphidia flavilabris* (Ofla4)
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CTAAGACCGTCGTGGCGACTGTTCTCGCGCTTCTGCCGAGCGACAGACC
.....C.....T.....
.....C.....T.....
.....C.....T.....
.....C.....T.....
.....C.....T.....
.....G.....G.....T.....
.....G.....GC.....T.....
.....G.....C.....GC.....T.....G.....
.....G.....T.....GGCG.....T.....
.....G.....C.....T.....CT.....G.....G.....
.....G.....G.....T.....

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1
0
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
G A G A T C T C C G G C T T G C T C G A A T G G A T G A A G C C G C G A G A T A A T T A T G G A T C

A T

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C

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0 1
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1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
G A G A G T G C C A A G T G G G C A C T T T G G T A A G C A G A A C T G G C G C T G T G G G A T

G

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1
1
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

G A A C C A A A C G C A G A G T T A A A G C G C C T A A A T A G A C G C T T A T G G G A T A C C A T

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1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

G A A A G G C G T T G G T T G C T T A A G A C A G C A G G A C G G T G G C C A T G G A A G T C G G A

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T T G T G G C G G G T C G C G G C G C G A G T C G C G A T C G T C G T G A A G C C C T G A C G A G T A

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1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
G G A G G G T C G C G A C G G T G A G C G C A G A A G G A T T G G C C G C G A G G C T G T C T G G A

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MZ313530.1 *Ornatoraphidia flavilabris* (Ofla1)
MZ313531.1 *Ornatoraphidia flavilabris* (Ofla2)
MZ313532.1 *Ornatoraphidia flavilabris* (Ofla3)
MZ313533.1 *Ornatoraphidia flavilabris* (Ofla4)
MZ313534.1 *Ornatoraphidia flavilabris* (Ofla5)
MZ313535.1 *Ornatoraphidia flavilabris* (Ofla6)
HM543373.1 *Ornatoraphidia flavilabris*
HM543372.1 *Turcoraphidia amara*
HM543366.1 *Parvoraphidia microstigma*
HM543378.1 *Dichrostigma flavipes*
HM543375.1 *Subilla confinis*
HM543358.1 *Puncha ratzeburgi*
HM543360.1 *Xanthostigma xanthostigma*

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MZ313530.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313531.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313532.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313533.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313534.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313535.1 *Ornatoraphidia flavilabris* (Ofla6)
 HM543373.1 *Ornatoraphidia flavilabris*
 HM543372.1 *Turcoraphidia amara*
 HM543366.1 *Parvoraphidia microstigma*
 HM543378.1 *Dichrostigma flavipes*
 HM543375.1 *Subilla confinis*
 HM543358.1 *Puncha ratzeburgi*
 HM543360.1 *Xanthostigma xanthostigma*

MZ313530.1 *Ornatoraphidia flavilabris* (Ofla1)
 MZ313531.1 *Ornatoraphidia flavilabris* (Ofla2)
 MZ313532.1 *Ornatoraphidia flavilabris* (Ofla3)
 MZ313533.1 *Ornatoraphidia flavilabris* (Ofla4)
 MZ313534.1 *Ornatoraphidia flavilabris* (Ofla5)
 MZ313535.1 *Ornatoraphidia flavilabris* (Ofla6)
 HM543373.1 *Ornatoraphidia flavilabris*
 HM543372.1 *Turcoraphidia amara*
 HM543366.1 *Parvoraphidia microstigma*
 HM543378.1 *Dichrostigma flavipes*
 HM543375.1 *Subilla confinis*
 HM543358.1 *Puncha ratzeburgi*
 HM543360.1 *Xanthostigma xanthostigma*

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MZ313530.1	<i>Ornatoraphidia flavidabris</i> (Ofla1)	
MZ313531.1	<i>Ornatoraphidia flavidabris</i> (Ofla2)	.
MZ313532.1	<i>Ornatoraphidia flavidabris</i> (Ofla3)	.
MZ313533.1	<i>Ornatoraphidia flavidabris</i> (Ofla4)	.
MZ313534.1	<i>Ornatoraphidia flavidabris</i> (Ofla5)	.
MZ313535.1	<i>Ornatoraphidia flavidabris</i> (Ofla6)	.
HM543373.1	<i>Ornatoraphidia flavidabris</i>	.
HM543372.1	<i>Turcoraphidia amara</i>	A.
HM543366.1	<i>Parvoraphidia microstigma</i>	.
HM543378.1	<i>Dichrostigma flavipes</i>	.
HM543375.1	<i>Subilla confinis</i>	.
HM543358.1	<i>Puncha ratzeburgi</i>	.
HM543360.1	<i>Xanthostigma xanthostigma</i>	.