



KM359573.1 Bactrocera dorsalis
HQ446518.1 Bactrocera dorsalis
OQ626326.1 Bactrocera dorsalis
OP036560.1 Bactrocera dorsalis
OK175615.1 Bactrocera dorsalis
MW032650.1 Bactrocera dorsalis
MT257267.1 Bactrocera correcta
MK053681.1 Bactrocera correcta
KJ753908.1 Bactrocera correcta
MN016970.1 Bactrocera correcta
AY530905.1 Bactrocera correcta
JQ692631.1 Bactrocera correcta
MT257819.1 Bactrocera zonata
MG881756.1 Bactrocera zonata
JX965418.1 Bactrocera zonata
MT257315.1 Bactrocera zonata
MT258188.1 Bactrocera zonata
KJ142766.1 Zeugodacus cucurbit
MN016983.1 Zeugodacus cucurbit
KP851001.1 Zeugodacus cucurbit
OL701253.1 Zeugodacus cucurbit
OK103985.1 Zeugodacus cucurbit
MW300735.1 Zeugodacus cucurbit
KT175576.1 Zeugodacus tau
OL701270.1 Zeugodacus tau
MT257465.1 Zeugodacus tau
MK249718.1 Zeugodacus tau
KJ753948.1 Bactrocera tau
MT456363.1 Bactrocera digressa
MG683319.1 Bactrocera digressa
GQ458048.1 Bactrocera caudata
FJ903493.1 Bactrocera caudata
JX559676.1 Bactrocera caudata
KF659996.1 Bactrocera caudata
MK125511.1 Zeugodacus caudatus
AF423109.1 Bactrocera caudata
MK053684.1 Bactrocera nigrofem
MK660603.1 Bactrocera nigrofem
MH172171.1 Bactrocera nigrofem
KT594975.1 Bactrocera scutella
MK053674.1 Zeugodacus scutella
KM024429.1 Bactrocera scutella
KT588387.1 Zeugodacus scutella
KF660074.1 Bactrocera scutella
KJ753902.1 Bactrocera cilifera
MH395849.1 Zeugodacus cilifer
JX266417.1 Bactrocera cilifera
KF660011.1 Bactrocera cilifera
MF095190.1 Zeugodacus cilifer

T C A G G A A A G A A G G A A A C A T T T G G A T C T C T A G G A A T A A T T T T A T G C T A T A A T A G C A A T T G G T
T C A G G A A A G A A G G A A A C A T T T G G A T C T C T A G G A A T A A T T T T A T G C T A T A A T A G C A A T T G G T
- - - - - A T T T A T G C T A T A A T G G C A A T T G G T
T C A G G A A A G A A G G A A A C A T T C G G A T C T T T A G G A A T A A T T T T A T G C T A T A A T A G C A A T T G G T
- - - - - T T C T G A A
- - - - - A A A G A T A T T G G A
- - - - - A A A G A T A T T G G A
- - - - - A
T C A G G A A A G A A G G A A A C A T T T G G A T C T C T A G G A A T A A T C T A C G C T A T A A T A G C A A T T G G T
- - - - - C A T A A A G A T A T T G G A
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T C A G G A A A G A A G G A A A C A T T T G G A T C T C T A G G A A T A A T C T A C G C T A T A A T A G C A A T T G G T
T C A G G A A A G A A G G A A A C A T T T G G A T C T C T A G G A A T A A T C T A C G C T A T A A T A G C A A T T G G T
T C A G G T A A A A A G G A A A C A T T T G G T T C C T T A G G T A T A A T T T T A C G C T A T A A T A G C A A T T G G A
- - - - - C A T A A A G A T A T T G G A
- - - - - A
- - - - - C A T A A A G A T A T T G G A
- - - - -
- - - - - G A T A T T G G A
- - - - -
T C G G G T A A A A A G G A A A C A T T C G G A T C C T T A G G T A T A A T T T T A T G C T A T A A T A G C A A T T G G G
- - - - - A T C A T A A A G A T A T T G G A
- - - - - A A A G A T A T T G G A
T C A G G G A A A A A G G A A A C A T T T G G T T C C C T A G G A A T A A T T T T A T G C T A T A A T A G C A A T T G G T
- - - - -
- - - - - T T C C A A T G C A C T A A T C T G C C A T A T T A G A A G T T A G T T A A A A G A G G T A G T T C A G A A
- - - - -
- - - - - A
- - - - - A
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- - - - - T T C T G A A
- - - - -
- - - - -
T C T G G T A A A A A G A A A C A T T C G G T T C T T T A G G A A T A A T T T T A T G C A A T A A T A G C A A T T G G A
- - - - - T T C T G A A
- - - - - A A A G A T A T T G G G A
- - - - -
- - - - - A
- - - - - A A A G A T A T T G G A
- - - - - G G A
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130 140 150 160 170 180

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KM359573.1 Bactrocera dorsalis
HQ446518.1 Bactrocera dorsalis

- - - - - G T T G A T

OK175615.1 *Bactrocera dorsalis* C
 MW032650.1 *Bactrocera dorsalis* C
 MT257267.1 *Bactrocera correct* A . . . T T
 MK053681.1 *Bactrocera correct* G G A T A G A T T A C . . . G . C G . . G T . T . C T A . . C T T . C T C A A A T A A . G A A T . G G A A A . A
 KJ753908.1 *Bactrocera correct* . T . T T A C G T G C C G . A G G . C . C C C C G G A G C A C . . A T T G G . . A . G A . C . .
 MN016970.1 *Bactrocera correct* . T . T T A C G T G C C G . A G G . C . C C C C G G A G C A C . . A T T G G . . A . G A C C . .
 AY530905.1 *Bactrocera correct* A . . . T T
 JQ692631.1 *Bactrocera correct* . T . T T A C G T G C C G . A G G . C . C C C C G G A G C A C . . A T T G G . . A . G A . C . .
 MT257819.1 *Bactrocera zonata* A . . . T C
 MG881756.1 *Bactrocera zonata* . T . T T A C G T G C . G G G . C . C C C C G G A G C A C . . A T T G G . . A . G A . C . G
 JX965418.1 *Bactrocera zonata* . T . T T A C G T G C . G . A G G . C . C C C C G G A G C A C . . A T T G G . . A . G A . C . .
 MT257315.1 *Bactrocera zonata* A . . . T C T
 MT258188.1 *Bactrocera zonata* G . . . T C T
 KJ142766.1 *Zeugodacus cucurbit* A . . . T . . . C T . . . T . . T . . T . . A
 MN016983.1 *Zeugodacus cucurbit* . T C T T A C C G G G C A G . A . . G . G G T C . C C C . G G A G C T T . . A T . G G . . A . G A . C . .
 KP851001.1 *Zeugodacus cucurbit* . T C T T A C C G G G C A G . A . . G . G G T C . C C C . G G A G C T T . . A T . G G . . A . G A . C . .
 OL701253.1 *Zeugodacus cucurbit* . T C T T A C C G G G C A G . A . . G . G G T C . C C C . G G A G C T T . . A T . G G . . A . G A . C . .
 OK103985.1 *Zeugodacus cucurbit* . T C T T A C C G G G C A G . A . . G . G G T C . C C C . G G A G C T T . . A T . G G . . A . G A . C . .
 MW300735.1 *Zeugodacus cucurbit* . T C T T A C C G G G C A G . A . . G . G G T C . C C C . G G A G C T T . . A T . G G . . A . G A . C . .
 KT175576.1 *Zeugodacus tau* . T . T T A C G . G C A G . A G G G C . C C C . G G A G C T T . . A T T G G . . A . G A C C . .
 OL701270.1 *Zeugodacus tau* . G G A G C T T . . A T T G G . . A . G A C C . .
 MT257465.1 *Zeugodacus tau* A . . . T . . C T . . . T . . T . . T . . A
 MK249718.1 *Zeugodacus tau* . T . . T A C G T G C . G . A T G G . C . C C C C G G A G C T T . . A T T G G . . A C G A C C . .
 KJ753948.1 *Bactrocera tau* . T . T T A C G . G C A G . A G G G C . C C C . G G A G C T T . . A T T G G . . A . G A C C . .
 MT456363.1 *Bactrocera digressa* C . . . A C G T . . . T . . T . . T . . A
 MG683319.1 *Bactrocera digressa* G A . T T C T T G A . G . . G T A A . G G A T G T . T . C G . A A T G . A A A . T T . T G . C . G . A . T . T
 GQ458048.1 *Bactrocera caudata* G G A T A A A T T A C C . G A C G . . G . . T A . T T A . T C T T . C T C A A A T A A . . A A T . G T A A G . A
 FJ903493.1 *Bactrocera caudata* A . . . T A T A
 JX559676.1 *Bactrocera caudata* . T C T T A C G . G C A G . A T G G T C . C C C . G G A G C C C . . A T T G G . . A . G A . C . .
 KF659996.1 *Bactrocera caudata* . T . . T A C G . G C A G . A G G T C . C C C . G G A G C C C . . A T T G G . . A . G A . C . .
 MK125511.1 *Zeugodacus caudatus* . T C T T A C G . G C A G . A T G G T C . C C C . G G A G C C C . . A T T G G . . A . G A . C . .
 AF423109.1 *Bactrocera caudata* A . . . T A T A
 MK053684.1 *Bactrocera nigrofem* G G G T A G A T T A C . . . G T C G . . G T . T . C T A . G C T T . C T C A A A T G A . G A A T . A G A A A . A
 MK660603.1 *Bactrocera nigrofem* . T . T T A C G . G C . G . A G G T C . T C C T G G A G C A T . . A T T G G . . A . G A . C . .
 MH172171.1 *Bactrocera nigrofem* T C C G C C T C . C . . T
 KT594975.1 *Bactrocera scutella* A . . . A . . . T . . C . . T A T A
 MK053674.1 *Zeugodacus scutella* G G A T A A A T T A C . . . G G C G . . G . . T A . C T A . T C T T . C T C A A A T A A . . A A T . A G A A G . A . . G G
 KM024429.1 *Bactrocera scutella* . T C T T A C G . G C A G . A T G G T C . T C C . G G A G C T C . . A T T G G . . A C G A C C . .
 KT588387.1 *Zeugodacus scutella* . T C T T A C G . G C A G . A T G G T C . T C C . G G A G C T C . . A T T G G . . A C G A C C . .
 KF660074.1 *Bactrocera scutella* . T C T T A C G . G C A G . A T G G T C . T C C . G G A G C T C . . A T T G G . . A C G A C C . .
 KJ753902.1 *Bactrocera cilifera* . T . T T A A C G . G C A G . A T G G . C . C C C C G G A G C A T . . A T T G G . . A . G A . C . .
 MH395849.1 *Zeugodacus cilifer* . T . T T A A C G . G C A G . A T G G . C . T C C C G G A G C A T . . A T T G G G . . A . G A . C . .
 JX266417.1 *Bactrocera cilifera* . T . T T A A C G . G C A G . A T G G . C . C C C C G G A G C A T . . A T T G G . . A . G A . C . .
 KF660011.1 *Bactrocera cilifera* . T . T T A A C G . G C A G . A T G G G C . C C C C G G A G C A T . . A T T G G . . A . G A . C . .
 MF095190.1 *Zeugodacus cilifer* . T . T T A A C G . G C A G . A T G G . C . C C C C G G A G C A T . . A T T G G . . A . G A . C . .

250 260 270 280 290 DorFP1 300

KM359573.1 *Bactrocera dorsalis* A T T T T T A G T T G A C T G G C T A C A T T A C A C G G T A C A C A A T T A A A C T A T T C A C C A G C - C A T A T -
 HQ446518.1 *Bactrocera dorsalis* A T A . A . A A . G
 OQ626326.1 *Bactrocera dorsalis* . G
 OP036560.1 *Bactrocera dorsalis* .
 OK175615.1 *Bactrocera dorsalis* A
 MW032650.1 *Bactrocera dorsalis* A

AY530905.1 *Bactrocera correcta* T . . C . . A - C T - - - . . T
 JQ692631.1 *Bactrocera correcta* T . A . A . A - . . A T T . C . . C G A A . . A . . . A . . . A A G A . T . . G . . T . T T A C C C C C T T - - - C C C
 MT257819.1 *Bactrocera zonata* T . . C . . A - C T - - - . . T
 MG881756.1 *Bactrocera zonata* C . A C A . A - . . A T T C C . . C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C T T - - - C C C
 JX965418.1 *Bactrocera zonata* C . A C A . A - . . A T T C C . . C G A A . G A . . . A . . . A A G A . T C . G G . T . T T A C C T C C T T - - - C C C
 MT257315.1 *Bactrocera zonata* T . . A . . A - C T - - - . . T
 MT258188.1 *Bactrocera zonata* T . . C . . A - C T - - - . . T
 KJ142766.1 *Zeugodacus cucurbit* . . . A T . A - . . C . . C . . T T C
 MN016981.1 *Zeugodacus cucurbit* . . A . A . A - . . A T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 KP851003.1 *Zeugodacus cucurbit* . . A . A . A - . . A T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 OL701253.1 *Zeugodacus cucurbit* . . A . A . A - . . A T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 OK103985.1 *Zeugodacus cucurbit* . . A . A . A - . . A T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 MW300735.1 *Zeugodacus cucurbit* . . A . A . A - . . A T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 KT175576.1 *Zeugodacus tau* . . A . A . A - . . G T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 OL701270.1 *Zeugodacus tau* . . A . A . A - . . G T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 MT257465.1 *Zeugodacus tau* . . . A T . A - . . A . . C . . T T T
 MK249718.1 *Zeugodacus tau* . . A . A . A - . . A T T C C . C C G A A . . A . . . A . . . A A G T . T . . G . . T . . T A C C T C C . T - - - C . C
 KJ753948.1 *Bactrocera tau* . . A . A . A - . . G T T C C . T C G A A . G A . . . A . . . A A G A . T . . G . . T . T T A C C T C C C T - - - C . C
 MT456363.1 *Bactrocera digressa* T . . C . . - C C T T - - - . .
 MG683319.1 *Bactrocera digressa* T C A C G . A T . T . G G A C . G C A A A G G C G C A A - - - . C G . G . T G G . A . G . G . T G A C G A A C
 GQ458048.1 *Bactrocera caudata* G A A G G . G - A T A T T . A . T C . A A . . A . . . A . . A A T A A A . . G . C T T T T T . A T C A T T T A G . A T
 FJ903493.1 *Bactrocera caudata* . . . A . . A - T C T T C
 JX559676.1 *Bactrocera caudata* . . A . A . A - . . A T T . C . . C G A A . . A . . . A . . . A A G A . T C . G . . T . . T G C C T C C T T - - - C A C
 KF659996.1 *Bactrocera caudata* . . A C A . A - . . A T T . C . . C G A A . . A . . . A C . . A A G A . T C . G . . T . . T G C C C C C T T - - - C A C
 MK125511.1 *Zeugodacus caudatus* . . A . A . A - . . A T T . C . . C G A A . . A . . . A . . . A A G A . T C . G . . T . . T G C C T C C T T - - - C A C
 AF423109.1 *Bactrocera caudata* . . . A . . A - T C T T C
 MK053684.1 *Bactrocera nigrofem* G A A . G . . - A A A T T . A . C C . A A . . A . . . A . . A A T A A A . . G . C T T T T T . A T C A T T T A G . A T
 MK660603.1 *Bactrocera nigrofem* T . A C A . A - . . . T T C C . . C G A A . . A . . . A . . . A A G A . T . . G G . T . . T A C C T C C T T - - - C C C
 MH172171.1 *Bactrocera nigrofem* T . . C . . A - C T T - - - . .
 KT594975.1 *Bactrocera scutella* . . . A T . A - T C T
 MK053674.1 *Zeugodacus scutella* G A A . G . . - A G A T T . A . . C . A A . . A . . . A . . A A T A A A . . G . C T T T T T . A T C A T T T A G . A T
 KM024429.1 *Bactrocera scutella* . . A . A . A - . . C T T C C . . C G A A . . A . . . A . . . A A G A . T C . G . . T . . T G C C T C C T T - - - C A C
 KT588387.1 *Zeugodacus scutella* . . A . A . A - . . C T T C C . . C G A A . . A . . . A . . . A A G A . T C . G . . T . . T G C C T C C T T - - - C A C
 KF660074.1 *Bactrocera scutella* . . A . A . A - . . C T T C C . . C G A A . . A . . . A . . . A A G A . T C . G . . T . . T G C C T C C T T - - - C A C
 KJ753902.1 *Bactrocera cilifera* . . A . A . A - . . A T T . C . T C G A A . . A . . . A . . . A A G A . T . . G . . T . T T G C C C C C T - - - C . C
 MH395849.1 *Zeugodacus cilifer* . . A . A . A - . . A T T . C . T C G A A . . A . . . A . . . A A G A . T . . G . . T . T T G C C T C C C T - - - C . C
 JX266417.1 *Bactrocera cilifera* . . A . A . A - . . A T T . C . T C G A A . . A . . . A . . . A A G A . T . . G . . T . T T G C C C C C T - - - C . C
 KF660011.1 *Bactrocera cilifera* . . A . A . A - . . A T T . C . T C G A A . . A . . . A . . . A A G A . T . . G . . T . T T G C C T C C C T - - - C . C
 MF095190.1 *Zeugodacus cilifer* . . A . A . A - . . A T T . C . T C G A A . . A . . . A . . . A A G A . T . . G . . T . T T G C C T C C C T - - - C . C

. 430 440 450 460 470 480
 KM359573.1 *Bactrocera dorsalis* G T A G C T C A T T T C C A C T A T G T A T T A T C - A A T A G G A G C A G T C T T - T G C T A T T A T A G C A G G A T
 HQ446518.1 *Bactrocera dorsalis*
 OQ626326.1 *Bactrocera dorsalis*
 OP036560.1 *Bactrocera dorsalis*
 OK175615.1 *Bactrocera dorsalis*
 MW032650.1 *Bactrocera dorsalis*
 MT257267.1 *Bactrocera correcta* . . T C A C
 MK053681.1 *Bactrocera correcta* T . . . T A . T A A . . . T G . . A A . . G A G G G T . T C . . T G A A C . A A . C C A . . G . . A A T A
 KJ753908.1 *Bactrocera correcta* T . . C A . T . C . A T T . G . . A . A . G G . . . A . A A T . G A - - - . . G G . . C . . G T T . . A
 MN016970.1 *Bactrocera correcta* T . . C A . T . C . A T T . G . . A . A . G G . . . A . A A T . G A - - - . . G G . . C . . G T T . . A
 AY530905.1 *Bactrocera correcta* . . T C A C
 JQ692631.1 *Bactrocera correcta* T . . C A . T . C . A T T . G . . A . A . G G . . . A . A A T . G A - - - . . G G . . C . . G T T . . A

MT257819.1 *Bactrocera zonata* T C A . . . - C . . C
 MG881756.1 *Bactrocera zonata* T . . C G C T G C . A T T . G . G A . A . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 JX965418.1 *Bactrocera zonata* T . . C A C T . C . A T T . G . G A . A . G G . . . A . A A T . G A - - - . . . G G . . C . . G T T . . A
 MT257315.1 *Bactrocera zonata* T C A . . . - C . . C G . . C
 MT258188.1 *Bactrocera zonata* T C A . . . - C . . C
 KJ142766.1 *Zeugodacus cucurbit* T T A T
 MN016983.1 *Zeugodacus cucurbit* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 KP851001.1 *Zeugodacus cucurbit* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 OL701253.1 *Zeugodacus cucurbit* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 OK103985.1 *Zeugodacus cucurbit* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 MW300735.1 *Zeugodacus cucurbit* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 KT175576.1 *Zeugodacus tau* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 OL701270.1 *Zeugodacus tau* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 MT257465.1 *Zeugodacus tau* T T A C
 MK249718.1 *Zeugodacus tau* T . . C . . T . C . . T T . G . C A . C . G G . G . A . A A C . G A - - - . . C G G A . C . . G T T . . A
 KJ753948.1 *Bactrocera tau* T . . C A . T . C . . T T . G . G A . C . G G . . . A . A A C . G A - - - . . . G G . . C . . G T T . . A
 MT456363.1 *Bactrocera digressa* . . T T G A . . . - C
 MG683319.1 *Bactrocera digressa* C . . A A G - . G C G . . . T . G A . . T . . G C G A . G A . . T T . G C T A T C C A . . T C T C G T G C . A C C . T C
 GQ458048.1 *Bactrocera caudata* T . . . A A . . A G . . . T G . G A A . . A . G G A T . T C . . T G A A C A A A . C C A A A T A
 FJ903493.1 *Bactrocera caudata* C . . C C . . C T A
 JX559676.1 *Bactrocera caudata* T . . C A C T . C . . T T . G . G A . C . G G . . . A . A A T . G A - - - . . C G G A . C . . G T T . . A
 KF659996.1 *Bactrocera caudata* T . . C A C T . C . . T T . G . G A . C . G G . . . A . A A T . G A - - - . . C G G A . C . . G T T . . A
 MK125511.1 *Zeugodacus caudatus* T . . C A C T . C . . T T . G . G A . C . G G . . . A . A A T . G A - - - . . C G G A . C . . G T T . . A
 AF423109.1 *Bactrocera caudata* C . . C C . . C T A
 MK053684.1 *Bactrocera nigrofem* T . . . T A . T A G . . . T G . . A A . . G G G G G T . T C . . T G . A C . A A . C C A . . . G . . G A A T A
 MK660603.1 *Bactrocera nigrofem* T . . C . C T T C . G T T . G . G A . A . G G . G . A . A A C . G A - - - . . . G G . . C . . G . T . . A
 MH172171.1 *Bactrocera nigrofem* C C A G
 KT594975.1 *Bactrocera scutella* C . . C . . T T A . . . - C
 MK053674.1 *Zeugodacus scutella* T . . A T A . . A G . . . T G . . A A . . A . G G G T . T C . . T G . A C . A A . C C A G A A T A
 KM024429.1 *Bactrocera scutella* T . . C A C T . C . . T T . G . G A . C . G G . G . A . A A C . G A - - - . . . G G G . C . . G T T . . A
 KT588387.1 *Zeugodacus scutella* T . . C A C T . C . . T T . G . G A . C . G G . G . A . A A C . G A - - - . . . G G G . C . . G T T . . A
 KF660074.1 *Bactrocera scutella* T . . C A C T . C . . T T . G . G A . C . G G . G . A . A A C . G A - - - . . . G G G . C . . G T T . . A
 KJ753902.1 *Bactrocera cilifera* T . . C A . T . C . . T T . G . . A . C . G G . . . A . A A T . G A - - - . . . G G . . C . . G . T . . A
 MH395849.1 *Zeugodacus cilifer* T . . C A . T . C . . T T . G . . A . C . G G . G . A . A A C . G A - - - . . . G G . . C . . G . T . . A
 JX266417.1 *Bactrocera cilifera* T . . C A . T . C . . T T . G . . A . C . G G . . . A . A A T . G A - - - . . . G G . . C . . G . T . . A
 KF660011.1 *Bactrocera cilifera* T . . C A . T . C . . T T . G . . A . C . G G . . . A . A A T . G A - - - . . . G G . . C . . G . T . . A
 MF095190.1 *Zeugodacus cilifer* T . . C A . T G C . . T T . G . . A . C . G G . . . A . A A T . G A - - - . . . G G . . C . . G . T . . A

490 500 510 520 530 540

KM359573.1 *Bactrocera dorsalis* T C G T T - - C A C T G A T A T C C C C T A T T T A - C A G G G C T A G T A T T A A A T C C T A A A T G A T T A A A A A
 HQ446518.1 *Bactrocera dorsalis* C
 OQ626326.1 *Bactrocera dorsalis* C T
 OP036560.1 *Bactrocera dorsalis* C T
 OK175615.1 *Bactrocera dorsalis* C
 MW032650.1 *Bactrocera dorsalis*
 MT257267.1 *Bactrocera correcta* C . . T A T C C G
 MK053681.1 *Bactrocera correcta* C T . C . C C T . T A T A . G . . G . G G A A . T . A G C . A C . A C . T . A T A . G T G . C . . G . . G - .
 KJ753908.1 *Bactrocera correcta* C A . . . - - T . . C C T C C C . T A T C . . C . G T T . T T . . . C A C G G A G G . G . T . C G G . - - . G . T C T .
 MN016970.1 *Bactrocera correcta* C A . . . - - T . . C C T C C C . T A T C . . C . G T T . T T . . . C A C G G A G G . G . T . C G G . - - . G . T C T .
 AY530905.1 *Bactrocera correcta* C . . T A T C C G
 JQ692631.1 *Bactrocera correcta* C A . . . - - T . . C C T C C C . T A T C . . C . G T T . T T . . . C A C G G A G G T G . T . C G G . - - . G . T C T .
 MT257819.1 *Bactrocera zonata* C - - C A C
 MG881756.1 *Bactrocera zonata* C A . . . - - T . T C C T C C C . T A T C . . C . G T T . T T . . . C A C G G A G G G G . T . C . G . - - . G . T C T .

MT258188.1 *Bactrocera zonata* T A
 KJ142766.1 *Zeugodacus cucurbit* G T . T C T T C
 MN016983.1 *Zeugodacus cucurbit* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . CGT . AA . .
 KP851001.1 *Zeugodacus cucurbit* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . CGT . AA . .
 OL701253.1 *Zeugodacus cucurbit* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . CGT . AA . .
 OK103985.1 *Zeugodacus cucurbit* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . CGT . AA . .
 MW300735.1 *Zeugodacus cucurbit* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . CGT . AA . .
 KT175576.1 *Zeugodacus tau* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . TGT . AA . .
 OL701270.1 *Zeugodacus tau* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . TGT . AA . .
 MT257465.1 *Zeugodacus tau* . C T . T C T T C
 MK249718.1 *Zeugodacus tau* . C . . TC . T . CC . C G . A T - - T . C . TCAA . T . AGGGG . TGT . AA . .
 KJ753948.1 *Bactrocera tau* . CT . T . . . T . CTC . C G . T T - - T . CATCAA . T . AGGGG . TGT . AA . .
 MT456363.1 *Bactrocera digressa* T A T T
 MG683319.1 *Bactrocera digressa* CCT . C . . A . A . GC . GC . G - . C . CTC . TAA GG . GCATC . AG . AG . TAT . TCTA . A . . C
 GQ458048.1 *Bactrocera caudata* A . A . TG . CTAC . GA . G . A . . . G . TAGTAC . . C - - TCC . GTTAA . . C . . . T . . TGTGAA . A
 FJ903493.1 *Bactrocera caudata* T A . C T C
 JX559676.1 *Bactrocera caudata* . CT . T . . . T . CT . . . C . C . . . G . T A . T - - T . CCTCTA . T . AGGAG . CGT . AA . .
 KF659996.1 *Bactrocera caudata* . CT . T . . . C . CT . . . C G . T A . T - - T . CCTCTA . T . AGG . G . CGT . AA . .
 MK125511.1 *Zeugodacus caudatus* . CT . T . . . T . CT . . . C G . T A . T - - T . CCTCTA . T . AGGAG . CGT . AA . .
 AF423109.1 *Bactrocera caudata* T A . C T C
 MK053684.1 *Bactrocera nigrofem* A . A . TA . CTAC . GATG . A . . . G . TAGGACA . C - - TCC . GTTAA . . C . . . T . . TGT . AA . A
 MK660603.1 *Bactrocera nigrofem* . C . . T . . . C . C . C . TC . CC . . . G . T T - - T . C . TCAA . . T . AGGGG . GGTTAA . .
 MH172171.1 *Bactrocera nigrofem* C T A T C
 KT594975.1 *Bactrocera scutella* T . T C A T T C
 MK053674.1 *Zeugodacus scutella* A . A . TA . CTAC . GA . G . A . . . G . TA . TAC . . C - - TCCC GTTAAA . C . . . T . . TGTGAA . A
 KM024429.1 *Bactrocera scutella* . CT . TC . . . C . CT . . . C . C . . . G . T A . T - - T . CATCTA . T . AGGTG . TGT . AA . .
 KT588387.1 *Zeugodacus scutella* . CT . TC . . . C . CT . . . C . C . . . G . T A . T - - T . CATCTA . T . AGGTG . TGT . AA . .
 KF660074.1 *Bactrocera scutella* . CT . TC . . . C . CT . . . C . C . . . G . T A . T - - T . CATCTA . T . AGGTG . TGT . AA . .
 KJ753902.1 *Bactrocera cilifera* . CA . T . . . T . CT . . . C . C . . . G . A A . T - - C . CATCTA . T . AGGGG . TGT . AA . .
 MH395849.1 *Zeugodacus cilifer* . CA . T . . . T . CT . . . C . C . . . G . A A . T - - C . CATCTA . T . AGGGG . TGT . AA . .
 JX266417.1 *Bactrocera cilifera* . CA . T . . . T . CT . . . C . C . . . G . A A . T - - C . CATCTA . T . AGGGG . TGT . AA . .
 KF660011.1 *Bactrocera cilifera* . CA . T . . . T . CT . . . C . C . . . G . A A . T - - C . CATCTA . T . AGGGG . TGT . AA . .
 MF095190.1 *Zeugodacus cilifer* . CA . T . . . T . CT . . . C . C . . . G . A A . T - - C . CATCTA . T . AGGGG . TGT . AA . .

610 620 630 640 650 660

KM359573.1 *Bactrocera dorsalis* TTAGGATTAGCTGGTATACCTCGACGATATTTCCAGACTATCCAGATGCTTACACAACATGA
 HQ446518.1 *Bactrocera dorsalis* T
 OQ626326.1 *Bactrocera dorsalis* T
 OP036560.1 *Bactrocera dorsalis* T
 OK175615.1 *Bactrocera dorsalis*
 MW032650.1 *Bactrocera dorsalis*
 MT257267.1 *Bactrocera correcta* A . A C . G . T C . G . C . A T
 MK053681.1 *Bactrocera correcta* GG . AC . CA . A . CCTAGGG . . CAT . AT . . . GCTG . GGAG . A - . TT . AA . GTGT . C . G . . T
 KJ753908.1 *Bactrocera correcta* . . . TC . CA . - . C . T . . . TAACATG . . . CGA . . . GAAT . T . . TT . ACCGA . T . C . TCT .
 MN016970.1 *Bactrocera correcta* . . . TC . CA . - . C . T . . . TAACAT . . . CGA . . . GAAT . T . . TT . ACCGA . T . C . TCT .
 AY530905.1 *Bactrocera correcta* A . A C . G . T C . G . C . A T
 JQ692631.1 *Bactrocera correcta* . . . TC . CA . - . C . T . . . TAACAT . . . CGA . . . GAAT . T . . TT . ACCGA . T . C . TCT .
 MT257819.1 *Bactrocera zonata* A . A T T . C . T . C . A . T
 MG881756.1 *Bactrocera zonata* . . . TT . CA . - . . . T . . . TAA . AT . . . T . CAA . . . GAAT . T . . TT . A . CGA . T . C . TCTC
 JX965418.1 *Bactrocera zonata* . C . TC . CA . - . C . T . . . TAACAT CAA . . . GAAT . T . . TT . ACCGA . T . C . TCTC
 MT257315.1 *Bactrocera zonata* A . A C T T . C . T . C . A . T
 MT258188.1 *Bactrocera zonata* A . A T T . C . T . C . A . T
 KJ142766.1 *Zeugodacus cucurbit* A . A T C . C C G

MN016983.1 *Zeugodacus cucurbit* . C . TT . C . . - . A . TA . . TAA . ATG CAA . . . GAATCA . . TT . . ACCGG . T . C . T . T .
KP851001.1 *Zeugodacus cucurbit* . C . TT . C . . - . A . TA . . TAA . ATG CAA . . . GAATCA . . TT . . ACCGG . T . C . T . T .
OL701253.1 *Zeugodacus cucurbit* . C . TT . C . . - . A . TA . . TAA . ATG CAA . . . GAATCA . . TT . . ACCGG . T . C . T . T .
OK103985.1 *Zeugodacus cucurbit* . C . TT . C . . - . A . TA . . TAA . ATG CAA . . . GAAT . A . . TT . . ACCGG . T . C . T . T .
MW300735.1 *Zeugodacus cucurbit* . C . TT . C . . - . A . TA . . TAA . ATG CAA . . . GAATCA . . TT . . ACCGG . T . C . T . T .
KT175576.1 *Zeugodacus tau* . C . TT . C . . - . A . TA . . TAA . AT CAA . . . GGAT . A . . TT . . ACCGA . T . C . T . T .
OL701270.1 *Zeugodacus tau* . C . TT . C . . - . A . TA . . TAA . AT CAA . . . GGAT . A . . TT . . ACCGA . T . C . T . T .
MT257465.1 *Zeugodacus tau* . T C .
MK249718.1 *Zeugodacus tau* . . . TT . CA . - . A . T . . . TAA . AT C . A . . . GAAT . AGC . TT . . ACCGA . T . C . T . C . T . G
KJ753948.1 *Bactrocera tau* . C . TT . C . . - . A . TA . . TAA . AT CAA . . . GGAT . A . . TT . . ACCGA . T . C . T . T .
MT45663.1 *Bactrocera digressa* . . . G . T C .
MG683319.1 *Bactrocera digressa* . . . GAC . GA . . . AAAAGAGATCGATGTTGG . CG . C . TGGCGG . G G . G . G . TTTTG . . C
GQ458048.1 *Bactrocera caudata* GG . AT . CA . ATCC . TA . GG . TCAT . AT . . . GCTG . . GAG . A - . TT . AG . . GTGT . C
FJ903493.1 *Bactrocera caudata* A . T C C T .
JX559676.1 *Bactrocera caudata* . . . TT . C . . - . A . TA . . TAA . CAT C . A . . . GAAT . A . . TTC . ACCGA . T . C . . . T .
KF659996.1 *Bactrocera caudata* . . . TT . C . . - . A . TA . . TAA . AT CCA . . . GAAT . A . . TTC . ACCGA . T . C . G . T .
MK125511.1 *Zeugodacus caudatus* . . . TT . C . . - . A . TA . . TAA . CAT C . A . . . GAAT . A . . TTC . ACCGA . T . C . . . T .
AF423109.1 *Bactrocera caudata* A . T C C T .
MK053684.1 *Bactrocera nigrofem* AG . AT . CA . ATCC . TAGGG . . CAC . GT . . . GCTG . . GAG . A - GTT . AG . . GTGT . C T
MK660603.1 *Bactrocera nigrofem* . . . TT . CA . - . C . TA . . TAA . AT C . A . . . GAAT . T . . TT . . ACCGA . T . C . T . C . T .
MH172171.1 *Bactrocera nigrofem* A . . A G T . A T .
KT594975.1 *Bactrocera scutella* . T T T C T .
MK053674.1 *Zeugodacus scutella* AG . AT . CA . ATCC . TAGGG . . TCAT . AT . . . GCTG . . GA . . A - TT . AG . . GTGTTC
KM024429.1 *Bactrocera scutella* . C . TT . CA . - . A . TA . . TAA . AT C . A . . . GAAT . A . . TTC . ACCGA . T . C . T . T .
KT588387.1 *Zeugodacus scutella* . C . TT . CA . - . A . TA . . TAA . AT C . A . . . GAAT . A . . TTC . ACCGA . T . C . T . T .
KF660074.1 *Bactrocera scutella* . C . TT . CA . - . A . TA . . TAA . AT C . A . . . GAAT . A . . TTC . ACCGA . T . C . T . T .
KJ753902.1 *Bactrocera cilifera* . . . TC . C . . - . A . TC . . TAA . ATG CAA . G . GAAT . A . . TTC . A . CGA . T . C . T . T .
MH395849.1 *Zeugodacus cilifer* . . . TC . C . . - . A . TC . . TAA . AT CAA . . . GAAT . A . . TTC . A . CGA . T . C . T . T .
JX266417.1 *Bactrocera cilifera* . . . TC . C . . - . A . TC . . TAA . AT CAA . G . GAAT . A . . TTC . A . CGA . T . C . T . T .
KF660011.1 *Bactrocera cilifera* . . . TC . C . . - . A . TC . . TAA . AT CAA . G . GAAT . A . . TTC . A . CGA . T . C . T . T .
MF095190.1 *Zeugodacus cilifer* . . . TC . C . . - . A . TC . . TAA . ATG CAA . . . GAAT . A . . TTC . A . CGA . T . C . T . T .

670 680 690 700 710 720

... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

KM359573.1 *Bactrocera dorsalis* AATGTAAGTTTCTACTATTGGTTCGTCTATTTCTTTAC - TAGGAATTTTATTCTTCCTAAT
HQ446518.1 *Bactrocera dorsalis* . A .
OQ626326.1 *Bactrocera dorsalis* . A .
OP036560.1 *Bactrocera dorsalis* . . . C . A .
OK175615.1 *Bactrocera dorsalis* . A .
MW032650.1 *Bactrocera dorsalis* . A .
MT257267.1 *Bactrocera correcta* . A .
MK053681.1 *Bactrocera correcta* - A . G . GGCTAG . CAAC . AAAAAT . . . AA . AC . - . GT . GG . ACAGCAA . AAT
KJ753908.1 *Bactrocera correcta* T - - - . C GAG . AG . . . TA . TAA . AGC . . TA - T - - - - - C . G . . A . CA CC
MN016970.1 *Bactrocera correcta* T - - - . C GAG . AG . . . TA . TAA . AGC . . TA - T - - - - - C A . CA CC
AY530905.1 *Bactrocera correcta* . A .
JQ692631.1 *Bactrocera correcta* T - - - . C GAG . AG . . . TA . TAA . AGC . . TA . . . G . . - T - - - - - C A . CA CC
MT257819.1 *Bactrocera zonata* . A .
MG881756.1 *Bactrocera zonata* T - - - . C GAG . AG . . . TA . TAA . AGCCCTA - T - - - - - C . G . . A . CAT . GCC
JX965418.1 *Bactrocera zonata* T - - - . C GAG . AG . . . TA . TAA . AGCCCTA - T - - - - - C . G . . A . CAT . . CC
MT257315.1 *Bactrocera zonata* . A .
MT258188.1 *Bactrocera zonata* . A .
KJ142766.1 *Zeugodacus cucurbit* . . . C . A A A C . T TT
MN016983.1 *Zeugodacus cucurbit* T - - - . C GAG . . G . A . TA . T . A . AGC . CT . C . TT - - C . TC . A . CT CC
KP851001.1 *Zeugodacus cucurbit* T - - - . C GAG . . G . A . CA . T . A . AGC . CT . C . TT - - C . TC . A . CT CC

OL701253.1 *Zeugodacus cucurbit* T - - - . C G A G . . G . A . T A . T . A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C
OK103985.1 *Zeugodacus cucurbit* T - - - . C G A G . . G . A . T A . T . A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C
MW300735.1 *Zeugodacus cucurbit* T - - - . C G A G . . G . A . T A . T . A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C
KT175576.1 *Zeugodacus tau* T - - - . C G A G . . G . A . T A . T A A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C C
OL701270.1 *Zeugodacus tau* T - - - . C G A G . . G . A . T A . T A A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C C
MT257465.1 *Zeugodacus tau* A A T C . T T T
MK249718.1 *Zeugodacus tau* T - - - . T G A G . . G T A . T A A . . G C A . T A T - . . - - - - - C . T C . T . C T C C
KJ753948.1 *Bactrocera tau* T - - - . C G A G . . G . A . T A . T A A . A G C . C T . C . T T - . . - - - - - C . T C . A . C T C C C
MT456363.1 *Bactrocera digressa* A A C
MG683319.1 *Bactrocera digressa* . T G . C C G G A G C A . . T G G A . A A C G C . G G . G . G . A . T C . G G . G A . G C . A C . T T A G . A
GQ458048.1 *Bactrocera caudata* . - - - - . G G . G G C T A . . C A A C . A A A A A T A A . A C G T T G G . A C A G C A A . A A T
FJ903493.1 *Bactrocera caudata* . C A A C A
JX559676.1 *Bactrocera caudata* T - - - . T G A G . A G . A . T G C T A A . A G C C . T A T - . . - - - - - C C . T . C A T C C
KF659996.1 *Bactrocera caudata* T - - - . T G A G . A G . A . T A . T A A . A G C C C T A T - - - - - C C . T . C A T C C
MK125511.1 *Zeugodacus caudatus* T - - - . T G A G . A G . A . T G C T A A . A G C C . T A T - . . - - - - - C C . T . C A T C C
AF423109.1 *Bactrocera caudata* . . C A A C A
MK053684.1 *Bactrocera nigrofem* . - - - - . A . G . G G C T A G . C A A C . A A A A A T A A . A C G T A G G . A C G G C A A . A A T
MK660603.1 *Bactrocera nigrofem* T - - - . C G A G . A G T A . T A A . A G C C . T A G T - - - - - C . G C . A . C . T C C
MH172171.1 *Bactrocera nigrofem* A C G
KT594975.1 *Bactrocera scutella* C A A C T C C T
MK053674.1 *Zeugodacus scutella* . - - - - . G G . A G C T A . . C A A C . A A A A A T A A . A C G T T G G . A C A G C A A . A A T
KM024429.1 *Bactrocera scutella* T - - - . C G A G . A G . A . T A . T A A . A G C A . T A - - - - - C . T C C A T C C
KT588387.1 *Zeugodacus scutella* T - - - . C G A A A . T A A . A G C A . T A - - - - - C . T C C A T C C
KF660074.1 *Bactrocera scutella* T - - - . C G A G . A G . A . T A . T A A . A G C A . T A - - - - - C . T C C A T C C
KJ753902.1 *Bactrocera cilifera* T - - - . T G A G . C G T A C T A A . . G C C C T C C . T T - . . - - - - C . T . C A T C C
MH395849.1 *Zeugodacus cilifer* T - - - . T G A G . C G T A . T A A . . G C C C T C C . T T - . . - - - - C . T . C A T C C
JX266417.1 *Bactrocera cilifera* T - - - . T G A G . C G T A . T A A . . G C C C T C C . T T - . . - - - - C . T . C A T C C
KF660011.1 *Bactrocera cilifera* T - - - . T G A G . C G T A . T A A . . G C C C T C C . T T - . . - - - - C . T . C A T C C
MF095190.1 *Zeugodacus cilifer* T - - - . T G A G . C G T A . T A A . . G C C C T C C . T T - . . - - - - C . T . C A T C C

730 740 750 760 770 780

KM359573.1 *Bactrocera dorsalis* C A T C A T T T G A G A A A G T T T A G T A A C A C A A C G A C A A G T A - - A T T T A C C C T A T A C A G C T T A G T
HQ446518.1 *Bactrocera dorsalis* A
OQ626326.1 *Bactrocera dorsalis* A
OP036560.1 *Bactrocera dorsalis* A
OK175615.1 *Bactrocera dorsalis*
MW032650.1 *Bactrocera dorsalis*
MT257267.1 *Bactrocera correcta* T G C T A
MK053681.1 *Bactrocera correcta* G T A G C . G A A G T G . . A . A A G C . C G A G T G T . T T C T . C C T A . A G T G . A T A T A . G A .
KJ753908.1 *Bactrocera correcta* A G . - - . . . A G C . G G A G C . . T C . C T . T . C T A T T . . C A G - - . . . C G . A A . . T A . A T A C C .
MN016970.1 *Bactrocera correcta* A G . - - . . . A G C . G G A G C . . T C . C T . T . C T A T T . . C A G - - . . . C G . A A . . T A . A T A C C .
AY530905.1 *Bactrocera correcta* T G C T A
JQ692631.1 *Bactrocera correcta* A G . - - . . . A G C . G G A G C . . T C . C T . T . C T A T T . . C A G - - . . . C G . A A . . T A . A T A C C .
MT257819.1 *Bactrocera zonata* C C A
MG881756.1 *Bactrocera zonata* A G . - - . . . A G C G G G A G C . . T . . . C T . T . T T A T T . . C A G - - . . . C G . A A T . T A . A T A C A .
JX965418.1 *Bactrocera zonata* A G . - - . . . A G C . G G A G C . . T . . . C T . T . C T A T T . . C A G - - . . . C C G . A A T C T A . A T A C C .
MT257315.1 *Bactrocera zonata* C C A
MT258188.1 *Bactrocera zonata* C C A
KJ142766.1 *Zeugodacus cucurbit* T T T A A
MN016983.1 *Zeugodacus cucurbit* T G . - - G A G C C G G A G C . . T . . . C T . T . C T T T T . . C A G - - . . . C C G . A A T . T A . A C A . C . C T .
KP851001.1 *Zeugodacus cucurbit* T G . - - A A G C C G G A G C . . T . . . C T . T . C T T T T . . C A G - - . . . C C G . A A T . T A . A C A . C . C T .
OL701253.1 *Zeugodacus cucurbit* T G . - - A A G C C G G A G C . . T . . . C T . T . C T T T T . . C A G - - . . . C C G . A A T . T A . A C A . C . C T .
OK103985.1 *Zeugodacus cucurbit* T G . - - A A G C C G G A G C . . T . . . C T . T . C T T T T . . C A G - - . . . C C G . A A T . T A . A C A . C . C T .

OL701270.1 *Zeugodacus tau* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MT257465.1 *Zeugodacus tau* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MK249718.1 *Zeugodacus tau* G . CCCC GCTGGAGG . GG . G TATTCTT . ACCA T TT TTTTTG
KJ753948.1 *Bactrocera tau* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MT456363.1 *Bactrocera digressa* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MG683319.1 *Bactrocera digressa* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
GQ458048.1 *Bactrocera caudata* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
FJ903493.1 *Bactrocera caudata* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
JX559676.1 *Bactrocera caudata* G . CCCC GCTGGAGG . GG . G TATTCTT . ACCA T TT TTTTTG
KF659996.1 *Bactrocera caudata* G . CCCC GCTGGAGG . GG . G TATTCTT . ACCA T TT TTTTTG
MK125511.1 *Zeugodacus caudatus* G . CCC . GCAGGGGG . TGGGG TATTTTA . ACCA T TT TTTTTG
AF423109.1 *Bactrocera caudata* G . CCC . GCAGGGGG . TGGGG TATTTTA . ACCA T TT TTTTTG
MK053684.1 *Bactrocera nigrofem* GTGCTC . . . AC . . . A . A . C . T . G . AGA . . . AATTGCTATT . T . GC . . . AGA . T . TTC GAG
MK660603.1 *Bactrocera nigrofem* . T . . TG . . CCCTGCTGG . GG . GG . G TATTCTT . ACCA C TT TTTTTG
MH172171.1 *Bactrocera nigrofem* . . A A A C T
KT594975.1 *Bactrocera scutella* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MK053674.1 *Zeugodacus scutella* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KM024429.1 *Bactrocera scutella* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KT588387.1 *Zeugodacus scutella* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KF660074.1 *Bactrocera scutella* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KJ753902.1 *Bactrocera cilifera* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MH395849.1 *Zeugodacus cilifer* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
JX266417.1 *Bactrocera cilifera* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KF660011.1 *Bactrocera cilifera* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MF095190.1 *Zeugodacus cilifer* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG

850 860 870 880 890 900

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KM359573.1 *Bactrocera dorsalis* C T T T T A A C T A A T T A T C T A A T A T G G C A G
HQ446518.1 *Bactrocera dorsalis* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
OQ626326.1 *Bactrocera dorsalis* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
OP036560.1 *Bactrocera dorsalis* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
OK175615.1 *Bactrocera dorsalis* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MW032650.1 *Bactrocera dorsalis* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MT257267.1 *Bactrocera correcta* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MK053681.1 *Bactrocera correcta* A . . C C G . . . T G T T . . C C . . T C T T . . C C T . . A T T C T T G A C T A A T A A T A T G A G A A A T T A T T C C G A A T C
KJ753908.1 *Bactrocera correcta* G . C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MN016970.1 *Bactrocera correcta* G G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
AY530905.1 *Bactrocera correcta* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
JQ692631.1 *Bactrocera correcta* G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
AT A T
MT257819.1 *Bactrocera zonata* G . C A C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MG881756.1 *Bactrocera zonata* G . C A C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
JX965418.1 *Bactrocera zonata* G . C A C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MT257315.1 *Bactrocera zonata* G . C A C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
MT258188.1 *Bactrocera zonata* G . C A C G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
C C
KJ142766.1 *Zeugodacus cucurbit* G . C A C C C T G T C T A . T A T G . C A G
MN016983.1 *Zeugodacus cucurbit* G . . C A C C C T G G . CCC . GCTGG . GGTGGGG . T TATTTTA . ACCA C TT TTTTTG
KP851001.1 *Zeugodacus cucurbit* G . C A C C C T
OL701253.1 *Zeugodacus cucurbit* G . C A C C C T
OK103985.1 *Zeugodacus cucurbit* G . C A C C C T
MW300735.1 *Zeugodacus cucurbit* G . C A C C C T
KT175576.1 *Zeugodacus tau* G . C A C C C T G G . T .
OL701270.1 *Zeugodacus tau* G . C A C C C T G G . T .
MT257465.1 *Zeugodacus tau* G . C A C C C T G G . T .

MK249718.1 *Zeugodacus tau* G . C A C C C T G . . G - - - - -
 KJ753948.1 *Bactrocera tau* G . C - - - - -
 MT456363.1 *Bactrocera digressa* C . - - - -
 MG683319.1 *Bactrocera digressa* - - - - -
 GQ458048.1 *Bactrocera caudata* - - - - -
 FJ903493.1 *Bactrocera caudata* C . T C T A . T A T G . C A G A T T A G T G C A T T - - - - -
 JX559676.1 *Bactrocera caudata* - - - - -
 KF659996.1 *Bactrocera caudata* - - - - -
 MK125511.1 *Zeugodacus caudatus* - - - - -
 AF423109.1 *Bactrocera caudata* C . T C - - - - -
 MK053684.1 *Bactrocera nigrofem* A . C C A . . T G T T . C C . T C T T . C C T . A T T C T T G A C T A A T A A T A T G G G A A A T T A T T C C G A A T C
 MK660603.1 *Bactrocera nigrofem* G . C A C C - - - - -
 MH172171.1 *Bactrocera nigrofem* C A T T A G T G C A T T G G A C C C - - - - -
 KT594975.1 *Bactrocera scutella* - - - - -
 MK053674.1 *Zeugodacus scutella* A A C C G . . T G T T . C C . T . T T A C C A . A T T C T T G G C T A A T A A T A T G G G A G A T T A T T C C G A A T C
 KM024429.1 *Bactrocera scutella* G . C - - - - -
 KT588387.1 *Zeugodacus scutella* G . C A C C C - - - - -
 KF660074.1 *Bactrocera scutella* - - - - -
 KJ753902.1 *Bactrocera cilifera* G . C - - - - -
 MH395849.1 *Zeugodacus cilifer* - - - - -
 JX266417.1 *Bactrocera cilifera* - - - - -
 KF660011.1 *Bactrocera cilifera* - - - - -
 MF095190.1 *Zeugodacus cilifer* - - - - -

.
 KM359573.1 *Bactrocera dorsalis* - - - - -
 HQ446518.1 *Bactrocera dorsalis* - - - - -
 OQ626326.1 *Bactrocera dorsalis* - - - - -
 OP036560.1 *Bactrocera dorsalis* - - - - -
 OK175615.1 *Bactrocera dorsalis* - - - - -
 MW032650.1 *Bactrocera dorsalis* - - - - -
 MT257267.1 *Bactrocera correcta* - - - - -
 MK053681.1 *Bactrocera correcta* C T G G - - - - -
 KJ753908.1 *Bactrocera correcta* - - - - -
 MN016970.1 *Bactrocera correcta* - - - - -
 AY530905.1 *Bactrocera correcta* - - - - -
 JQ692631.1 *Bactrocera correcta* - - - - -
 MT257819.1 *Bactrocera zonata* - - - - -
 MG881756.1 *Bactrocera zonata* - - - - -
 JX965418.1 *Bactrocera zonata* - - - - -
 MT257315.1 *Bactrocera zonata* - - - - -
 MT258188.1 *Bactrocera zonata* - - - - -
 KJ142766.1 *Zeugodacus cucurbit* - - - - -
 MN016983.1 *Zeugodacus cucurbit* - - - - -
 KP851001.1 *Zeugodacus cucurbit* - - - - -
 OL701253.1 *Zeugodacus cucurbit* - - - - -
 OK103985.1 *Zeugodacus cucurbit* - - - - -
 MW300735.1 *Zeugodacus cucurbit* - - - - -
 KT175576.1 *Zeugodacus tau* - - - - -
 OL701270.1 *Zeugodacus tau* - - - - -
 MT257465.1 *Zeugodacus tau* - - - - -
 MK249718.1 *Zeugodacus tau* - - - - -
 KJ753948.1 *Bactrocera tau* - - - - -

MT456363.1 <i>Bactrocera digressa</i>	- - - -
MG683319.1 <i>Bactrocera digressa</i>	- - - -
GQ458048.1 <i>Bactrocera caudata</i>	- - - -
FJ903493.1 <i>Bactrocera caudata</i>	- - - -
JX559676.1 <i>Bactrocera caudata</i>	- - - -
KF659996.1 <i>Bactrocera caudata</i>	- - - -
MK125511.1 <i>Zeugodacus caudatus</i>	- - - -
AF423109.1 <i>Bactrocera caudata</i>	- - - -
MK053684.1 <i>Bactrocera nigrofem</i>	C T G G
MK660603.1 <i>Bactrocera nigrofem</i>	- - - -
MH172171.1 <i>Bactrocera nigrofem</i>	- - - -
KT594975.1 <i>Bactrocera scutella</i>	- - - -
MK053674.1 <i>Zeugodacus scutella</i>	C T G G
KM024429.1 <i>Bactrocera scutella</i>	- - - -
KT588387.1 <i>Zeugodacus scutella</i>	- - - -
KF660074.1 <i>Bactrocera scutella</i>	- - - -
KJ753902.1 <i>Bactrocera cilifera</i>	- - - -
MH395849.1 <i>Zeugodacus cilifer</i>	- - - -
JX266417.1 <i>Bactrocera cilifera</i>	- - - -
KF660011.1 <i>Bactrocera cilifera</i>	- - - -
MF095190.1 <i>Zeugodacus cilifer</i>	- - - -