Accession numbers of GenBank sequences.

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| No | Species | Author name | Locality | Specimen | COI | | COII |
| 1 | *Cnaphalocrocis medinalis* | (Guenée, 1854) |  | - | JQ647917 | JQ647917 | |
| 2 | *Tyspanodes hypsalis* | Warren, 1891 |  | - | KM453724 | KM453724 | |
| 3 | *Elophila interruptalis* | (Pryer, 1877) |  | - | KC894961 | KC894961 | |
| 4 | *Scirpophaga incertulas* | (Walker, 1863) |  | - | KF751706 | KF751706 | |
| 5 | *Chilo suppressalis* | (Walker, 1863) |  | - | HQ860290 | HQ860290 | |
| 6 | *Ostrinia furnacalis* | (Guenée, 1854) | China | 1 | AF467260 | - | |
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| 238 |  |  | Unknown | - | DQ204878 | - | |
| 239 | *Ostrinia kurentzowi* | Mutuura & Munroe, 1970 | China | - | EU128654 | EF622420 | |
| 240 | *Ostrinia latipennis* | (Warren, 1892) | China | 1 | FJ435437 | - | |
| 241 |  |  | China | 2 | FJ435439 | FJ435442 | |
| 242 |  |  | China | 3 | EU128657 | EU070914 | |
| 243 |  |  | China | 4 | - | FJ435441 | |
| 244 |  |  | Japan | - | - | AB029544 | |
| 245 | *Ostrinia narynensis* | Mutuura & Munroe, 1970 | China | - | EU128655 | EU070916 | |
|  |  |  |  |  |  | |
| 246 | *Ostrinia nubilalis* | (Hübner, 1796) | Canada | - | AF170853 | - | |
| 247 |  |  | China | - | EU128659 | EU070917 | |
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| 251 |  |  | France | - | EU128660 | EU219734 | |
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| 326 |  |  | USA | 9 | DQ204913 | - | |
| 327 |  |  | USA | 10 | DQ204914 | - | |
| 328 |  |  | USA | 11 | DQ204915 | - | |
| 329 |  |  | USA | 12 | - | AB029540 | |
| 330 |  |  | USA | 13 | - | AF442957 | |
| 331 | *Ostrinia orientalis* | Mutuura & Munroe, 1970 | China | - | EU128653 | EF622418 | |
| 332 |  |  | Japan | 1 | - | AB121290 | |
| 333 |  |  | Japan | 2 | - | AB121289 | |
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| 357 |  |  | Japan | 26 | - | AB121285 | |
| 358 |  |  | Japan | 27 | - | AB121274 | |
| 359 | *Ostrinia ovalipennis* | Ohno, 2003 | Japan | 1 | - | AB185106 | |
| 360 |  |  | Japan | 2 | - | AB185107 | |
| 361 | *Ostrinia palustralis* | (Hübner, 1796) | Japan | 1 | - | AB029545 | |
| 362 |  |  | Japan | 2 | - | AB185108 | |
| 363 | *Ostrinia scapulalis* | (Walker, 1859) | China | - | EU128656 | EF622419 | |
| 364 |  |  | Japan | - | - | AB029541 | |
| 365 | *Ostrinia zaguliaevu* | Mutuura & Munroe, 1970 | Japan | - | - | AB029542 | |
| 366 | *Ostrinia zealis* | (Guenée, 1854) | China | - | EU128658 | EU070915 | |
| 367 |  |  | Japan | - | - | AB029543 | |

The phylogenetic tree in a Newick format on which *gsi* estimates were based. Numbers after species names correspond to specimen numbers in Table S1.

(O\_nubilalis\_029\_Zea\_Tw:5e-08,(O\_nubilalis\_008\_Artemisia\_Tor:0.01834693,((O\_nubilalis\_014\_Humulus\_Wol:1e-08,O\_nubilalis\_012\_Zea\_Pia:4e-08)0.000000:5e-08,(O\_nubilalis\_031\_Zea\_Tw:1e-08,(O\_nubilalis\_016\_Artemisia\_Giz:0,((O\_nubilalis\_003\_Zea\_K:0.00061579,(O\_nubilalis\_010\_Artemisia\_Krz:0,O\_nubilalis\_026\_Zea\_K:0.00064898)0.821000:0.00062795)0.000000:3e-08,((O\_nubilalis\_002\_Zea\_K:0.00124952,((O\_nubilalis\_009\_Artemisia\_Krz:0.00062843,O\_nubilalis\_011\_Artemisia\_Krz:1.4e-07)0.862000:0.00194093,(O\_nubilalis\_005\_Zea\_B:1e-08,O\_nubilalis\_032\_Artemisia\_Przemysl:1e-08)0.723000:0.00060399)0.873000:0.00127532)0.000000:4e-08,(O\_nubilalis\_017\_Humulus\_Wol:0.00063902,((O\_nubilalis\_030\_Zea\_Tw:0.00064157,O\_nubilalis\_018\_Humulus\_Wol:0.00064034)0.000000:4e-08,((O\_nubilalis\_019\_Humulus\_Wol:0,(O\_nubilalis\_013\_Humulus\_Wol:0.00064157,(O\_nubilalis\_015\_Zea\_S:0,(O\_nubilalis\_007\_Artemisia\_Tor:1e-08,(O\_nubilalis\_006\_Artemisia\_Tor:1e-08,(O\_nubilalis\_001\_Zea\_K:1e-08,O\_nubilalis\_004\_Zea\_B:1e-08)0.000000:1e-08)0.000000:1e-08)0.000000:1e-08)0.000000:0)0.000000:1e-08)0.000000:0,(O\_nubilalis\_020\_Zea\_Nie:1e-08,(O\_nubilalis\_021\_Zea\_Nie:1e-08,(O\_nubilalis\_022\_Zea\_Nie:1e-08,(O\_nubilalis\_023\_Zea\_Sk:1e-08,(O\_nubilalis\_024\_Zea\_Sk:1e-08,(O\_nubilalis\_027\_Zea\_K:0,(O\_nubilalis\_025\_Zea\_Sk:0.00128556,O\_nubilalis\_028\_Zea\_K:2e-08)0.000000:0)0.000000:1e-08)0.000000:1e-08)0.000000:1e-08)0.000000:1e-08)0.000000:1e-08)0.000000:2e-08)0.000000:4e-08)0.000000:5e-08)0.838000:0.00062562)0.854000:0.00061926)0.847000:0.00061845)0.000000:3e-08)0.915000:0.0012382)0.000000:6e-08)0.421000:0.00061098)1.000000;