

Table S1. Samples of LSB used in this study and GenBank accession numbers

| No | Sample code | Date | Location | Haplotype | Sub-clade | GenBank accession No. |
|----|-------------|-------------|-----------------------------|-----------|-----------|-----------------------|
| 1 | TP01 | 2018.Apr.16 | Kinmen, Taiwan | H7 | IV | MT946201-04 |
| 2 | TP02 | 2019.Feb.21 | Miaoli, Taiwan | H8 | III | MT946205-06 |
| 3 | TP02-1 | 2020.Feb.29 | Miaoli, Taiwan | H9 | III | MT946207-08 |
| 4 | TP03 | 2019.Mar.30 | Dongshan, Yilan, Taiwan | H11 | I | MT946209-10 |
| 5 | TP03-1 | 2020.Mar.27 | Dongshan, Yilan, Taiwan | H9 | III | MT946211-13 |
| 6 | TP03-2 | 2020.Mar.27 | Dongshan, Yilan, Taiwan | H3 | V | MT946214-15 |
| 7 | TP04 | 2019.Mar.28 | Mingjian, Nantou, Taiwan | H9 | III | MT946216 |
| 8 | TP05 | 2019.Mar.29 | Shetou, Changhua, Taiwan | H9 | III | MT946217 |
| 9 | TP06 | 2019.Apr.03 | Xihu, Miaoli, Taiwan | H9 | III | MT946218 |
| 10 | TP07 | 2019.Apr.09 | Tianliao, Kaohsiung, Taiwan | H13 | II | MT946219 |
| 11 | TP08 | 2019.Apr.10 | Beitun, Taichung, Taiwan | H9 | III | MT946220 |
| 12 | TP09 | 2019.Mar.28 | Mingjian, Nantou, Taiwan | H9 | III | MT946221 |
| 13 | TP10 | 2019.Mar.29 | Shetou, Changhua, Taiwan | H9 | III | MT946222 |
| 14 | TP11 | 2019.Apr.10 | Beitun, Taichung, Taiwan | H9 | III | MT946223 |
| 15 | TP12 | 2019.Apr.03 | Xihu, Miaoli, Taiwan | H9 | III | MT946224 |
| 16 | TP13 | 2019.Mar.28 | Mingjian, Nantou, Taiwan | H9 | III | MT946225 |
| 17 | TP14 | 2019.Apr.09 | Kaohsiung, Taiwan | H13 | II | MT946226 |
| 18 | TP15 | 2019.Apr.06 | Shenzhen, China | H5 | | MT946227 |
| 19 | TP16 | 2019.Apr.06 | Shenzhen, China | H4 | | MT946228 |
| 20 | TP17 | NA | ChiangMai, Thailand | H1 | | MT946229 |
| 21 | TP18 | NA | ChiangMai, Thailand | H2 | | MT946230 |
| 22 | TP19 | 2019.Apr.05 | Puli, Nantou, Taiwan | H9 | III | MT946231 |
| 23 | TP20 | 2019.Apr.21 | Jinsha, Kinmen, Taiwan | H7 | IV | MT946232 |
| 24 | TP21 | 2019.Apr.21 | Jinsha, Kinmen, Taiwan | H11 | I | MT946233 |
| 25 | TP22 | 2019.Apr.21 | Jinning, Kinmen, Taiwan | H13 | II | MT946234 |
| 26 | TP23 | 2019.May.14 | Jhongpu, Chiayi, Taiwan | H13 | II | MT946235 |
| 27 | TP24 | 2019.May.13 | Gongguan, Miaoli, Taiwan | H9 | III | MT946236 |
| 28 | TP25 | 2019.May.13 | Xiangshan, Hsinchu, Taiwan | H11 | I | MT946237 |
| 29 | TP26 | 2019.May.13 | Chaozhou, Pingtung, Taiwan | H13 | II | MT946238 |
| 30 | TP27 | 2019.May.19 | Wenshan, Taipei, Taiwan | H9 | III | MT946239 |
| 31 | TP28 | 2019.May.17 | Shilin, Taipei, Taiwan | H11 | I | MT946240 |
| 32 | TP29 | 2019.May.19 | Wujie, Yilan, Taiwan | H9 | III | MT946241 |
| 33 | TP30 | 2019.May.27 | Douliu, Yunlin, Taiwan | H9 | III | MT946242 |
| 34 | TP31 | 2019.May.23 | Linnei, Yunlin, Taiwan | H9 | III | MT946243 |
| 35 | TP32 | 2019.Jun.05 | Xiangshan, Hsinchu, Taiwan | H9 | III | MT946244 |
| 36 | TP33 | 2019.May.19 | Minxiong, Chiayi, Taiwan | H13 | II | MT946245 |
| 37 | TP34 | 2019.Jun.09 | Dahu, Miaoli, Taiwan | H9 | III | MT946246 |

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|----|------|-------------|-----------------------------|-----|-----|----------|
| 38 | TP35 | 2019.May.19 | Ji'an, Hualien, Taiwan | H11 | I | MT946247 |
| 39 | TP36 | 2019.May.22 | Jinning, Kinmen, Taiwan | H10 | I | MT946248 |
| 40 | TP37 | 2019.May.29 | Nanhua, Tainan, Taiwan | H9 | III | MT946249 |
| 41 | TP38 | 2019.May.16 | Wufeng, Taichung, Taiwan | H13 | II | MT946250 |
| 42 | TP39 | 2019.May.31 | Tianliao, Kaohsiung, Taiwan | H13 | II | MT946251 |
| 43 | TP40 | 2019.May.22 | Jinsha, Kinmen, Taiwan | H10 | I | MT946252 |
| 44 | TP41 | 2019.Jun.24 | Qiaotou, Kaohsiung, Taiwan | H13 | II | MT946253 |
| 45 | TP42 | 2019.Jul.26 | Yanchao, Kaohsiung, Taiwan | H13 | II | MT946254 |
| 46 | TP43 | 2019.Jul.26 | Neimen, Kaohsiung, Taiwan | H13 | II | MT946255 |
| 47 | TP44 | 2019.Aug.05 | Jinning, Kinmen, Taiwan | H7 | IV | MT946256 |
| 48 | TP45 | 2019.Aug.05 | Jinning, Kinmen, Taiwan | H7 | IV | MT946257 |
| 49 | TP46 | 2020.Jan.16 | Tianliao, Kaohsiung, Taiwan | H13 | II | MT946258 |
| 50 | TP47 | 2020.Feb.23 | Lucao, Chiayi, Taiwan | H9 | III | MT946259 |
| 51 | TP48 | 2020.Feb.29 | Yuanli, Miaoli, Taiwan | H9 | III | MT946260 |
| 52 | TP49 | 2020.Mar.02 | Wufeng, Taichung, Taiwan | H9 | III | MT946261 |
| 53 | TP50 | 2020.Mar.11 | Neimen, Kaohsiung, Taiwan | H13 | II | MT946262 |
| 54 | TP51 | 2020.Mar.11 | Xihu, Miaoli, Taiwan | H9 | III | MT946263 |
| 55 | TP52 | 2020.Mar.15 | Beitun, Taichung, Taiwan | H9 | III | MT946264 |
| 56 | TP53 | 2020.Mar.16 | Dahu, Miaoli, Taiwan | H9 | III | MT946265 |
| 57 | TP54 | 2020.Mar.17 | Nanhua, Tainan, Taiwan | H13 | II | MT946266 |
| 58 | TP55 | 2020.Mar.20 | Qishan, Kaohsiung, Taiwan | H13 | II | MT946267 |
| 59 | TP56 | 2020.Mar.21 | Beitou, Taipei, Taiwan | H11 | I | MT946268 |
| 60 | TP57 | 2020.Mar.23 | Shetou, Changhua, Taiwan | H9 | III | MT946269 |
| 61 | TP58 | 2020.Apr.05 | Fanlu, Chiayi, Taiwan | H13 | II | MT946270 |
| 62 | TP59 | 2020.Mar.27 | Linnei, Yunlin, Taiwan | H9 | III | MT946271 |
| 63 | TP60 | 2020.Mar.27 | Yuanshan, Yilan, Taiwan | H3 | V | MT946272 |
| 64 | TP61 | 2020.Mar.29 | Zuoying, Kaohsiung, Taiwan | H13 | II | MT946273 |
| 65 | TP62 | 2020.Apr.07 | Ji'an, Hualien, Taiwan | H11 | I | MT946274 |
| 66 | TP63 | 2020.Apr.10 | Tianliao, Kaohsiung, Taiwan | H13 | II | MT946275 |
| 67 | TP64 | 2020.Apr.10 | Alian, Kaohsiung, Taiwan | H13 | II | MT946276 |
| 68 | TP65 | 2020.Apr.12 | Fangliao, Pingtung, Taiwan | H13 | II | MT946277 |
| 69 | TP66 | 2020.Apr.13 | Tamsui, New Taipei, Taiwan | H12 | II | MT946278 |
| 70 | TP67 | 2020.Apr.14 | Wufeng, Taichung, Taiwan | H9 | III | MT946279 |
| 71 | TP71 | 2020.Apr.13 | Neimen, Kaohsiung, Taiwan | H13 | II | MT946280 |
| 72 | TP73 | 2020.Apr.13 | Jiali, Tainan, Taiwan | H13 | II | MT946281 |
| 73 | TP76 | 2020.Apr.13 | Nanhua, Tainan, Taiwan | H13 | II | MT946282 |
| 74 | TP79 | 2020.Apr.14 | Ren'ai, Keelung, Taiwan | H9 | III | MT946283 |
| 75 | TP81 | 2020.Apr.14 | Xinyi, Keelung, Taiwan | H11 | I | MT946284 |
| 76 | TP82 | 2020.Apr.14 | Xinyi, Keelung, Taiwan | H11 | I | MT946285 |
| 77 | TP83 | 2020.Apr.18 | Nangang, Taipei, Taiwan | H11 | I | MT946286 |
| 78 | TP84 | 2020.Apr.18 | Bali, New Taipei, Taiwan | H11 | I | MT946287 |

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|----|------|-------------|--------------------------|-----|-----|----------|
| 79 | TP85 | 2020.Apr.18 | Bali, New Taipei, Taiwan | H9 | III | MT946288 |
| 80 | TP86 | 2020.Apr.18 | Bali, New Taipei, Taiwan | H12 | II | MT946289 |
| 81 | TP87 | 2020.Apr.18 | Bali, New Taipei, Taiwan | H11 | I | MT946290 |

Table S2. Number of LSB eggs parasitized by “major” (*Anastatus fulloi* and *A. dexingensis*) and “minor” egg parasitoid species (*A. formosanus*, *A. sp.*, *Ooencyrtus utetheisae*, *O. phongi* and eulophid wasp X). Note the egg numbers for the “minor” egg parasitoid species (in bold) are not included in the total egg numbers shown in Table 1.

| | 2018 | | | 2019 | | |
|-----------------|----------|----------|----------|-------|----------|----------|
| | April | May | June | March | April | May |
| Northern | | | | | | |
| <i>A.f.</i> | 40 | 40 | 1 | 0 | 0 | 39 |
| <i>A.d.</i> | 13 | 264 | 369 | 0 | 0 | 28 |
| <i>O.u.</i> | 0 | 3 | 0 | 0 | 0 | 0 |
| <i>O.p.</i> | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>A.fo.</i> | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>A. sp.</i> | 0 | 0 | 0 | 0 | 4 | 0 |
| <i>E.W.X</i> | 0 | 0 | 0 | 0 | 0 | 0 |
| Central | | | | | | |
| <i>A.f.</i> | - | 23 | 0 | 0 | 50 | 26 |
| <i>A.d.</i> | - | 366 | 14 | 12 | 258 | 210 |
| <i>O.u.</i> | - | 0 | 0 | 0 | 5 | 7 |
| <i>O.p.</i> | - | 5 | 0 | 0 | 0 | 5 |
| <i>A.fo.</i> | - | 0 | 0 | 0 | 0 | 0 |
| <i>A. sp.</i> | - | 0 | 0 | 0 | 0 | 0 |
| <i>E.W.X</i> | - | 3 | 0 | 0 | 0 | 0 |
| Southern | | | | | | |
| <i>A.f.</i> | 0 | 28 | 0 | 31 | 55 | 15 |
| <i>A.d.</i> | 47 | 62 | 10 | 28 | 179 | 118 |
| <i>O.u.</i> | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>O.p.</i> | 0 | 0 | 5 | 0 | 1 | 0 |
| <i>A.fo.</i> | 0 | 0 | 0 | 0 | 1 | 0 |
| <i>A. sp.</i> | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>E.W.X</i> | 0 | 0 | 0 | 0 | 0 | 0 |
| Kinmen | | | | | | |
| <i>A.f.</i> | 29 | - | - | - | 27 | - |
| <i>A.d.</i> | 0 | - | - | - | 0 | - |
| <i>O.u.</i> | 0 | - | - | - | 0 | - |
| <i>O.p.</i> | 0 | - | - | - | 0 | - |
| <i>A.fo.</i> | 0 | - | - | - | 0 | - |
| <i>A. sp.</i> | 0 | - | - | - | 0 | - |
| <i>E.W.X</i> | 0 | - | - | - | 0 | - |

A.f.: *Anastatus fulloi*; *A.d.*: *A. dexingensis*; *A.fo.*: *A. formosanus*; *A. sp.*: *Anastatus* sp.; *O.u.*:
Ooencyrtus utetheisae; *O.p.*: *O. phongi*; *E.W.X.*: eulophid wasp X