

Table S1. Information of type specimens and sequences from GenBank; the voucher numbers, species names, type status, sex, sample status (D = dissected, the numbers in brackets indicate the number of slides in which dissections are mounted; V = stored in a vial with 70% ethanol; S = attached on a SEM stub), locality, and GenBank accession numbers of 18S, 28S, cytb, and cox1.

| voucher no. | species | type | sex | status | locality | GenBank accession no. | | | | reference |
|------------------|--|-------------|-----|--------|----------|-----------------------|----------|----------|----------|------------|
| | | | | | | 18S | 28S | cytb | cox1 | |
| MABIKCR00252865 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | holotype | F | D (13) | L3 | - | - | OP908244 | OP901353 | this study |
| NIBRIV0000901821 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 1 | F | V | L3 | - | - | OP908249 | OP901354 | this study |
| NIBRIV0000901822 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 2 | F | S | L3 | - | - | OP908255 | OP901370 | this study |
| NIBRIV0000901823 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | Paratype 3 | F | S | L3 | OP923225 | - | OP908250 | OP901356 | this study |
| NIBRIV0000901824 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 4 | F | S | L3 | - | - | OP908263 | OP901357 | this study |
| NIBRIV0000901825 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 5 | F | V | L3 | OP923226 | OP923707 | OP908245 | OP901358 | this study |
| NIBRIV0000901826 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 6 | F | V | L3 | - | - | OP908251 | OP901359 | this study |
| NIBRIV0000901827 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 7 | F | D (13) | L3 | OP923227 | - | OP908256 | OP901360 | this study |
| NIBRIV0000901828 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 8 | F | D (10) | L3 | OP923228 | - | OP908257 | OP901361 | this study |
| NIBRIV0000901829 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 9 | F | D (11) | L3 | - | - | OP908261 | OP901362 | this study |
| NIBRIV0000901830 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 10 | M | V | L3 | - | - | OP908258 | OP901363 | this study |
| NIBRIV0000901831 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 11 | M | S | L3 | - | - | OP908262 | OP901364 | this study |
| NIBRIV0000901832 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 12 | M | S | L3 | - | - | OP908252 | OP901355 | this study |
| NIBRIV0000901833 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 13 | M | S | L3 | - | - | OP908246 | OP901365 | this study |
| NIBRIV0000901834 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 14 | M | D (6) | L3 | - | - | OP908259 | OP901366 | this study |
| NIBRIV0000901835 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 15 | M | D (6) | L3 | - | - | OP908253 | OP901367 | this study |
| NIBRIV0000901836 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 16 | M | D (13) | L3 | - | - | OP908254 | OP901368 | this study |
| NIBRIV0000901837 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 17 | M | V | L3 | - | - | OP908248 | OP901369 | this study |
| NIBRIV0000901838 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 18 | M | V | L3 | - | - | OP908260 | OP901371 | this study |
| NIBRIV0000901839 | <i>Phyllopodopsyllus saywakimi</i> sp. nov. | paratype 19 | M | V | L3 | - | - | OP908247 | OP901372 | this study |
| MABIKCR00252866 | <i>Phyllopodopsyllus similis</i> sp. nov. | holotype | F | D (10) | L3 | OP923229 | OP923708 | OP908264 | OP901373 | this study |
| NIBRIV0000901840 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 1 | F | S | L2 | - | - | OP945953 | OP897045 | this study |
| NIBRIV0000901841 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 2 | F | S | L3 | - | - | OP908285 | - | this study |
| NIBRIV0000901842 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 3 | F | S | L3 | - | - | OP908265 | OP901374 | this study |
| NIBRIV0000901843 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 4 | F | V | L3 | - | - | OP908286 | OP901375 | this study |
| NIBRIV0000901844 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 5 | F | V | L3 | - | - | OP908266 | OP901376 | this study |
| NIBRIV0000901845 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 6 | F | V | L3 | - | - | OP908289 | OP901377 | this study |
| NIBRIV0000901846 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 7 | F | V | L3 | - | - | OP908267 | OP901378 | this study |
| NIBRIV0000901847 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 8 | F | V | L1 | - | - | - | - | this study |
| NIBRIV0000901848 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 9 | F | V | L1 | - | - | - | - | this study |
| NIBRIV0000901849 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 10 | F | V | L2 | - | - | - | - | this study |

Table S1. continued.

| voucher no. | species | type | sex | status | locality | GenBank accession no. | | | | reference |
|------------------|--|-------------|-----|--------|----------|-----------------------|----------|----------|----------|---------------------|
| | | | | | | 18S | 28S | cytb | cox1 | |
| NIBRIV0000901850 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 11 | F | V | L4 | - | - | - | - | this study |
| NIBRIV0000901851 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 12 | F | S | L3 | - | - | OP908268 | - | this study |
| NIBRIV0000901852 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 13 | F | S | L3 | - | - | OP908269 | - | this study |
| NIBRIV0000901853 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 14 | F | S | L3 | - | - | OP908287 | - | this study |
| NIBRIV0000901854 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 15 | F | S | L3 | - | - | OP908270 | OP901379 | this study |
| NIBRIV0000901855 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 16 | F | S | L3 | - | - | OP908271 | OP901380 | this study |
| NIBRIV0000901856 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 17 | F | S | L3 | - | - | OP908272 | - | this study |
| NIBRIV0000901857 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 18 | F | D (9) | L3 | - | - | OP908273 | OP901381 | this study |
| NIBRIV0000901858 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 19 | F | D (10) | L3 | - | - | OP908274 | OP901382 | this study |
| NIBRIV0000901859 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 20 | F | D (9) | L2 | - | - | - | - | this study |
| NIBRIV0000901860 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 21 | M | V | L2 | OP923230 | OP923709 | OP945954 | OP897046 | this study |
| NIBRIV0000901861 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 22 | M | S | L3 | - | - | OP908275 | OP901383 | this study |
| NIBRIV0000901862 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 23 | M | S | L3 | - | - | OP908276 | OP901384 | this study |
| NIBRIV0000901863 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 24 | M | S | L3 | - | - | OP908277 | - | this study |
| NIBRIV0000901864 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 25 | M | D (10) | L3 | - | - | OP908278 | - | this study |
| NIBRIV0000901865 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 26 | M | V | L3 | - | - | OP908288 | - | this study |
| NIBRIV0000901866 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 27 | M | V | L3 | - | - | OP908279 | - | this study |
| NIBRIV0000901867 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 28 | M | V | L3 | - | - | OP908280 | - | this study |
| NIBRIV0000901868 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 29 | M | V | L2 | - | - | - | - | this study |
| NIBRIV0000901869 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 30 | M | S | L3 | - | - | OP908281 | OP901385 | this study |
| NIBRIV0000901870 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 31 | M | D (7) | L3 | - | - | OP908282 | - | this study |
| NIBRIV0000901871 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 32 | M | D (8) | L3 | - | - | OP908283 | - | this study |
| NIBRIV0000901872 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 33 | M | S | L3 | - | - | OP908284 | OP901386 | this study |
| NIBRIV0000901873 | <i>Phyllopodopsyllus similis</i> sp. nov. | paratype 34 | M | D (6) | L2 | - | - | - | - | this study |
| N13 | <i>Phyllopodopsyllus kitazimai</i> | - | - | V | L5 | OP923691 | OP923703 | OP908290 | OP903283 | this study |
| N14 | <i>Phyllopodopsyllus kitazimai</i> | - | - | V | L5 | OP923692 | OP923704 | OP908291 | OP903285 | this study |
| pki01 | <i>Phyllopodopsyllus kitazimai</i> | - | - | V | L5 | OP923693 | OP923705 | OP908292 | OP903286 | this study |
| pki03 | <i>Phyllopodopsyllus kitazimai</i> | - | - | V | L5 | OP923694 | OP923706 | OP908293 | OP903284 | this study |
| LEGO-HAR017 | <i>Paralaophonte congenera</i> | - | - | - | - | KR048738 | KR048875 | KR049011 | - | [43] |
| MA73574 | <i>Quinquelaophonte aurantius</i> | - | - | - | - | MH444815 | - | MH444814 | - | [44] |
| NIBRIV0000865946 | <i>Quinquelaophonte enormis</i> | - | - | - | - | MT410708 | MT420736 | - | - | [45] |
| DZMB699 | Tetragonicipitidae sp. | - | - | - | - | MF077698 | | MF077923 | - | Khodami et al. 2017 |
| DZMB702 | Tetragonicipitidae sp. | - | - | - | - | MF077699 | | MF077900 | - | Khodami et al. 2017 |
| DZMB331 | Aegisthidae sp. | - | - | - | - | MF077745 | MF077841 | MF077916 | - | Khodami et al. 2017 |
| 301DZMB | <i>Andromastax</i> sp. | - | - | - | - | MN536822 | MN535556 | MN536172 | - | [46] |