**Table S1.** List of sequences from cymothoid species distributed in Japan downloaded from GenBank, with the corresponding accession numbers (Jones et al. 2008; Hata et al. 2017; Baillie et al. 2019; Fujita et al. 2020, 2021; Fujita 2022; Saito and Fujita 2022; Saito et al. 2022)

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|  | COI | 16S |
| *Mothocya parvostis* | LC159573, LC412904, LC549122, LC549123, LC549124, LC549125, LC549126, LC549127, LC549128, LC549129, LC549130, LC549131, LC549132, LC549133, LC549134, LC549135, LC549136, LC549137, LC549138, LC549139, LC549140, LC549141, LC549142, LC549143, LC549144, LC549145, LC549146, LC549147, LC549148, LC549149, LC549150, LC549151 | LC159462, LC416622, LC549152, LC549153, LC549154, LC549155, LC549156, LC549157, LC549158, LC549159, LC549160, LC549161, LC549162, LC549163, LC549164, LC549165, LC549166, LC549167, LC549168, LC549169, LC549170, LC549171, LC549172, LC549173, LC549174, LC549175, LC549176, LC549177, LC549178 |
| *Mothocya renardi* | MK652485, OL377828 | EF422803 |
| *Mothocya collettei* | LC159572 | LC159461 |
| *Mothocya melanosticta* | MH395840 | - |
| *Anilocra clupei* | LC159540, LC160309, LC604073, LC708256 | LC159426, LC604074, LC708257 |
| *Anilocra prionuri* | LC159541 | LC159427 |
| *Ceratothoa arimae* | LC159544 | LC159430 |
| *Ceratothoa carinata* | MK652479 | - |
| *Ceratothoa oxyrrhynchaena* | LC159545, LC159546, LC159547, LC159548, LC159549, LC159550, LC160310, LC160311, LC160312, LC626344 | LC159431, LC159432, LC159433, LC159434, LC159435, LC159436, LC159437, LC160305, LC626345 |
| *Ceratothoa verrucosa* | LC159556, LC159557, LC160317, LC160318 | LC159444, LC159445 |
| *Nerocila japonica* | LC159574, LC159575, LC160325, LC160326, LC160327, LC160328, LC160329, LC160330, LC160331, LC710516 | LC159463, LC159464, LC710517 |
| *Nerocila phaiopleura* | LC159576, LC160332, LC682406, MN428453, | LC159465, LC682407 |