**Supplementary Material 2.** Comparative list of Ariidae haplotypes from the coastal Amazon region from the COI mitochondrial gene and public databases. The numbering after each scientific name represents species individuals. GB = GenBank – National Center for Biotechnology Information; BOLD = Barcode of Life Data System.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Haplotype code and frequency of occurrence** | **Haplotype****(based on morphology)** | **Species identified and GB deposit number** | **Similarity GB** | **Identified species and BOLD filing number** | **Similarity BOLD** |
| H1 (5) | *Notarius phrygiatus* 4 | *Notarius luniscutis*(KY402450.1) | 100% | *Notarius grandicassis*(MFSP682-10) | 100% |
| H2 (2) | *Notarius quadriscutis* 1 | *Notarius luniscutis*(KY402450.1) | 99.8% | *Notarius grandicassis*(MFSP685-10) | 99.79% |
| H3 (1) | *Notarius quadriscutis* 2 | *Notarius luniscutis*(KY402450.1) | 99.8% | *Notarius grandicassis*(MFSP685-10) | 99.79% |
| H4 (2) | *Notarius grandicassis* 1 | No match | - | *Notarius grandicassis*(Private) | 100% |
| H5 (2) | *Notarius grandicassis* 3 | No match | - | *Notarius grandicassis*(Private) | 99.8% |
| H6 (1) | *Notarius grandicassis* 5 | No match | - | *Notarius grandicassis*(Private) | 100% |
| H7 (5) | *Notarius rugispinis* 1 | No match | - | *Notarius rugispinis*(ITAPE389-15) | 100% |
| H8 (1) | *Cathorops agassizii* 4 | *Cathorops spixii*(OQ075616.1) | 99.37% | *Cathorops spixii*(GBMNB4209-20) | 99% |
| H9 (3) | *Cathorops agassizii* 7 | *Cathorops spixii*(OQ075616.1) | 100% | *Cathorops spixii*(GBMNB4209-20) | 98.8% |
| H10 (1) | *Cathorops spixii* 1 | *Cathorops spixii*(MF595235.1) | 99.6% | *Cathorops spixii*(GBMNB4209-20) | 99.6% |
| H11 (1) | *Cathorops spixii* 2 | *Cathorops spixii*(MF595235.1) | 99.8% | *Cathorops spixii*(GBMNB4209-20) | 99.79% |
| H12 (2) | *Cathorops spixii* 3 | *Cathorops spixii*(MF595235.1) | 100% | *Cathorops spixii*(GBMNB4209-20) | 100% |
| H13 (1) | *Cathorops spixii* 4 | *Cathorops spixii*(MF595235.1) | 100% | *Cathorops spixii*(GBMNB4209-20) | 99.79% |
| H14 (3) | *Sciades proops* 1 | *Sciades proops*(OR195675.1) | 98.99% | *Sciades proops*(Private) | 99.59% |
| H15 (1) | *Sciades proops* 3 | *Sciades proops*(OR195675.1) | 99.5% | *Sciades proops*(Private) | 99.79% |
| H16 (2) | *Bagre bagre* 2 | *Bagre bagre*(KC618665.1) | 99.8% | *Bagre bagre*(ANGBF24329-19) | 99.79% |
| H17 (2) | *Bagre bagre* 3 | *Bagre bagre*(KC618665.1) | 100% | *Bagre bagre*(ANGBF24329-19) | 100% |
| H18 (1) | *Bagre bagre* 6 | *Bagre bagre*(KC618665.1) | 99.8% | *Bagre bagre*(ANGBF24329-19) | 99.79% |
| H19 (1) | *Sciades couma* 1 | No match | - | *Sciades couma*(ITAPE022-15) | 99.79% |
| H20 (3) | *Sciades couma* 2 | No match | - | *Sciades couma*(ITAPE022-15) | 100% |
| H21 (1) | *Sciades couma* 3 | No match | - | *Sciades couma*(ITAPE022-15) | 99.59% |
| H22 (1) | *Sciades couma* 5 | No match | - | *Sciades couma*(ITAPE022-16) | 99.79% |
| H23 (5) | *Sciades herzbergii* 1 | *Sciades herzbergii*(OQ075619.1) | 100% | *Sciades herzbergii*(Private) | 100% |
| H24 (6) | *Sciades parkeri* 3 | *Netuma* sp.(HQ689375.1) | 100% | *Sciades parkeri*(Private) | 100% |
| H25 (4) | *Sciades passany* 1 | No match | - | *Sciades passany*(Private) | 100% |