

Supplemental Table 1. Vouchers included for DNA sequencing of species of *Chaetostoma* and outgroups *Andeancistrus*, *Cordylancistrus*, *Dolichancistrus*, *Leptoancistrus*, and *Transancistrus*. Species marked with asterisk (*) represent samples from the type-locality of the respective species. Accession codes marked with an asterisk (*) are from Lujan et al. (2015).

| Species | Tissue | Locality | Country | Catalog | 16S | col | cytb | nd2 | rag1 | rag2 | myh6 |
|-------------------------|---------|------------|-----------|---------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| <i>C. anale</i> | T24906 | Caqueta | Colombia | ROM 107811 | OL303477 | OK514628 | OL303604 | OL303303 | | OL303814 | |
| <i>C. anale</i> | T24907 | Caqueta | Colombia | ROM 107811 | OL303478 | OK514629 | OL303605 | OL303304 | OL303181 | OL303815 | |
| <i>C. anale</i> | T24822 | Orteguasa | Colombia | ROM 107267 | OL303592 | OK514630 | OL303592 | OL303305 | | OL303802 | OL303716 |
| <i>C. anale</i> | T24946 | Orteguasa | Colombia | ROM 107837 | OL303469 | OK514631 | OL303593 | OL303306 | | OL303803 | |
| <i>C. anale</i> | T24872 | Orteguasa | Colombia | ROM 107267 | | | OL303606 | OL303307 | OL303182 | | |
| <i>C. anale</i> | T24873 | Orteguasa | Colombia | ROM 107267 | | | OL303607 | OL303308 | | | |
| <i>C. anomalum</i> | T631 | Maracaibo | Venezuela | INHS 55455 | OL303479 | | OL303608 | OL303398 | | OL303816 | OL303724 |
| <i>C. bifurcum</i> * | T13602 | Esmeraldas | Ecuador | ROM 93687 | KP959851* | | KP960196* | OL303399* | KP960011* | KP960315* | KP960438* |
| <i>C. bifurcum</i> * | T13603 | Esmeraldas | Ecuador | ROM 93687 | OL303480* | | OL303609* | OL303400* | OL303183* | OL303817* | |
| <i>C. bifurcum</i> | T13665 | Guayas | Ecuador | ROM 93721 | OL303481 | | OL303610 | OL303309 | OL303184 | OL303818 | OL303725 |
| <i>C. bifurcum</i> | 2575.45 | Solano | Ecuador | MHNG 2575.45 | Y08329* | | | | | | |
| <i>C. bifurcum</i> | T13896 | Santa Rosa | Ecuador | ROM 93787 | OL303482 | | OL303611 | OL303453 | OL303185 | OL303819 | OL303726 |
| <i>C. bifurcum</i> | T13897 | Santa Rosa | Ecuador | ROM 93787 | OL303483 | | OL303612 | OL303310 | OL303186 | OL303820 | |
| <i>C. breve</i> | T24936 | Caqueta | Colombia | ROM 107831 | | | | OL303311 | OL303187 | | |
| <i>C. breve</i> | T24970 | Caqueta | Colombia | ROM 107845 | | | | OL303312 | OL303289 | | |
| <i>C. breve</i> | PE08208 | Huallaga | Peru | MHNG 2712.047 | OL303484 | | OL303613 | OL303401 | OL303188 | OL303821 | OL303727 |
| <i>C. breve</i> | PE08213 | Huallaga | Peru | MHNG 2712.048 | OL303485 | | OL303614 | OL303403 | OL303189 | OL303822 | OL303728 |
| <i>C. breve</i> | PE08648 | Huallaga | Peru | MHNG 2712.074 | OL303486 | | OL303615 | OL303313 | OL303190 | OL303823 | OL303729 |
| <i>C. breve</i> | PE08673 | Huallaga | Peru | MHNG 2712.078 | OL303487 | | OL303616 | OL303402 | OL303191 | OL303824 | OL303730 |
| <i>C. breve</i> | 11442 | Ucayali | Peru | LBP 1347 | KT932800* | | | | | | |
| <i>C. breve</i> | P6292 | Marañon | Peru | AUM 46515 | KP959854* | | KP960190* | | KP960015* | KP960307* | KP960443* |
| <i>C. breve</i> | P6294 | Marañon | Peru | AUM 46516 | OL303488 | | OL303617 | OL303314 | | OL303825 | |
| <i>C. breve</i> | T19715 | Napo N | Ecuador | ROM 100323 | | | OL303619 | OL303315 | OL303290 | | |
| <i>C. breve</i> | T19716 | NapoN | Ecuador | ROM 100320 | | | OL303620 | OL303316 | OL303193 | | |
| <i>C. breve</i> | T14360 | Napo S | Ecuador | ROM 93950 | OL303489 | | OL303618 | OL303404 | OL303192 | OL303826 | |
| <i>C. breve</i> | T14224 | Pastaza | Ecuador | ROM 93923 | OL303490 | | OL303621 | OL303317 | | | |
| <i>C. breve</i> * | T14005 | Santiago | Ecuador | ROM 93848 | OL303491 | | OL303622 | OL303318 | OL303194 | OL303827 | |
| <i>C. brevilabiatum</i> | 6630 | Honda | Colombia | ANSP 189597 | OL303492 | | OL303623 | OL303406 | | OL303828 | OL303731 |
| <i>C. brevilabiatum</i> | 6631 | Honda | Colombia | ANSP 189597 | OL303493 | | OL303624 | OL303407 | | OL303829 | OL303732 |
| <i>C. brevilabiatum</i> | T24814 | Magdalena | Colombia | ROM 106317 | | | | OL303405 | OL303291 | | |
| <i>C. brevilabiatum</i> | JAM1975 | Villeta | Colombia | MPUJ 7863 | OL303494 | | | OL303319 | | OL303830 | |

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|------------------------------|---------|----------|----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <i>C. brevilabiatum</i> | JAM1976 | Villeta | Colombia | MPUJ 7863 | OL303495 | | OL303320 | | OL303831 | |
| <i>C. carrioni</i> * | T14010 | Santiago | Ecuador | ROM 93845 | OL303496* | OL303625* | OL303321* | OL303195* | OL303832* | OL303733 |
| <i>C. carrioni</i> * | T14016 | Santiago | Ecuador | ROM 93845 | KP959835* | KP960188* | OL303408* | KP959927* | KP960303* | KP960434* |
| <i>C. carrioni</i> * | T14017 | Santiago | Ecuador | ROM 93845 | OL303497* | OL303626* | OL303322* | OL303196* | | |
| <i>C. carrioni</i> * | T14030 | Santiago | Ecuador | ROM 93845 | OL303498* | OL303627* | OL303454* | | OL303833* | OL303734* |
| <i>C. cf. anale</i> | T19606 | Napo | Ecuador | ROM 100250 | OL303470 | OK514632 | OL303628 | OL303323 | | OL303804 |
| <i>C. cf. anale</i> | T19610 | Napo | Ecuador | ROM 100248 | | | | OL303327 | OL303197 | |
| <i>C. cf. anale</i> | T19647 | Napo | Ecuador | ROM 100263 | OL303499 | OK514633 | OL303629 | OL303324 | | OL303834 |
| <i>C. cf. anale</i> | T19707 | Napo | Ecuador | ROM 100322 | | | OL303594 | OL303325 | | OL303805 |
| <i>C. cf. anale</i> | T19708 | Napo | Ecuador | ROM 100322 | | OK514634 | OL303595 | OL303326 | | OL303806 |
| <i>C. cf. fischeri</i> | T9034 | Tuira | Panama | STRI 11581 | KP959849* | | KP960197* | | KP960013* | KP960316* |
| <i>C. cf. lineopunctatum</i> | CH153 | Huallaga | Peru | MUSM 44253 | OL303500 | | OL303630 | OL303328 | OL303198 | OL303835 |
| <i>C. cf. lineopunctatum</i> | PE08318 | Huallaga | Peru | MHNG 2712.057 | OL303501 | | OL303631 | OL303409 | OL303199 | OL303836 |
| <i>C. cf. lineopunctatum</i> | PE08545 | Huallaga | Peru | MHNG 2712.069 | OL303502 | | OL303632 | OL303455 | OL303200 | OL303837 |
| <i>C. cf. lobarhynchus</i> | CH200 | Huallaga | Peru | MUSM 44899 | OL303503 | | OL303633 | OL303329 | OL303201 | OL303838 |
| <i>C. cf. lobarhynchus</i> | CH202 | Huallaga | Peru | MUSM 44899 | OL303504 | | OL303634 | OL303330 | OL303202 | OL303839 |
| <i>C. cf. lobarhynchus</i> | CH203 | Huallaga | Peru | MUSM 44899 | | | OL303635 | OL303456 | OL303203 | OL303840 |
| <i>C. cf. lobarhynchus</i> | CH204 | Huallaga | Peru | MUSM 44899 | OL303505 | | OL303636 | OL303410 | OL303204 | OL303841 |
| <i>C. cf. patiae</i> Dagua | T24727 | Dagua | Colombia | ROM 106379 | | | | OL30333 | OL303292 | |
| <i>C. cf. platyrhynchus</i> | JAM1335 | Orinoco | Colombia | MPUJ ? | OL303506 | | | | | OL303842 |
| <i>C. changae</i> * | PE08442 | Huallaga | Peru | MHNG 2712.064 | OL303507* | | OL303637* | OL303411 | OL303205 | OL303843 |
| <i>C. changae</i> * | PE08543 | Huallaga | Peru | MHNG 2712.067 | OL303508* | | OL303638* | OL303412 | OL303206 | OL303844 |
| <i>C. daidalmatos</i> * | CH140 | Huallaga | Peru | MUSM 44845 | OL303509* | | OL303639* | OL303413 | OL303207 | OL303845 |
| <i>C. daidalmatos</i> * | CH141 | Huallaga | Peru | MUSM 44845 | OL303510* | | OL303640* | OL303414 | OL303208 | OL303846 |
| <i>C. daidalmatos</i> * | PE08191 | Huallaga | Peru | MHNG 2712.045 | OL303511* | | OL303641* | | OL303209 | OL303847 |
| <i>C. daidalmatos</i> * | PE08207 | Huallaga | Peru | MHNG 2712.051 | OL303512* | | OL303642* | OL303415 | OL303210 | OL303848 |
| <i>C. daidalmatos</i> * | PE08239 | Huallaga | Peru | MHNG 2712.052 | OL303513* | | OL303643* | OL303416 | OL303211 | OL303849 |
| <i>C. daidalmatos</i> * | PE08347 | Huallaga | Peru | MHNG 2712.055 | OL303514* | | OL303644* | OL303417 | OL303212 | OL303850 |
| <i>C. daidalmatos</i> * | PE08633 | Huallaga | Peru | MHNG 2712.073 | OL303515* | | OL303645* | OL303418 | OL303213 | OL303851 |
| <i>C. dermorhynchum</i> * | T14293 | Bobonaza | Ecuador | ROM 93946 | OL303518* | | OL303648* | OL303419* | OL303214* | OL303854* |
| <i>C. dermorhynchum</i> * | T14296 | Bobonaza | Ecuador | ROM 93946 | OL303519* | | OL303649* | OL303335* | | OL303855* |
| <i>C. dermorhynchum</i> * | T14308 | Bobonaza | Ecuador | ROM 93946 | OL303520* | | OL303650* | OL303336* | | OL303856* |
| <i>C. dermorhynchum</i> | T14256 | Pastaza | Ecuador | ROM 93656 | OL303516 | | OL303646 | OL303332 | | OL303852 |
| <i>C. dermorhynchum</i> | T14258 | Pastaza | Ecuador | ROM 93656 | KP959853* | | KP960191* | OL303333 | KP960016* | KP960306* |
| <i>C. dermorhynchum</i> | T14287 | Pastaza | Ecuador | ROM 93656 | OL303517 | | OL303647 | OL303334 | | OL303853 |
| <i>C. dorsale</i> | T12929 | Meta | Colombia | ROM 94926 | OL303521 | | | OL303457 | OL303215 | OL303857 |
| <i>C. dorsale</i> | T17427 | Meta | Colombia | ROM 95258 | OL303522 | | | OL303337 | OL303216 | OL303858 |
| <i>C. dorsale</i> | T17432 | Meta | Colombia | ROM 95258 | | | | OL303338 | OL303217 | OL303859 |
| <i>C. fischeri</i> | T9027 | Bayano | Panama | STRI 905 | OL303523 | | OL303651 | OL303339 | OL303218 | OL303860 |
| <i>C. fischeri</i> | T9036 | Bayano | Panama | STRI 12274 | OL303524 | | OL303652 | | OL303219 | OL303861 |

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|----------------------------|----------|---------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <i>C. fischeri</i> | T9026 | Chagres | Panama | STRI 7604 | KP959850* | | KP960195* | | KP960012* | KP960317* | KP960437* |
| <i>C. fischeri</i> | T9037 | Chagres | Panama | STRI | OL303525 | | OL303653 | OL303340 | OL303220 | OL303862 | OL303755 |
| <i>C. fischeri</i> | 18540 | | Panama | LBP 2758 | KT932819* | | | | | | |
| <i>C. formosae</i> | T17431 | Meta | Colombia | ROM 95260 | OL303526 | | OL303654 | OL303341 | OL303221 | OL303863 | OL303756 |
| <i>C. guairensis</i> * | VZ122 | Limon | Venezuela | INHS 34786 | OL303527* | | OL303655* | OL303420* | OL303222* | OL303864* | |
| <i>C. jegui</i> | Tec63784 | Branco | Brazil | LBP 15478 | KT932810* | | | | | | |
| <i>C. jegui</i> | Tec63785 | Branco | Brazil | LBP 15478 | OL303471 | OK514635 | OL303596 | OL303421 | | OL303807 | |
| <i>C. jegui</i> | Tec63786 | Branco | Brazil | LBP 15478 | OL303472 | OK514636 | OL303597 | OL303342 | | OL303808 | |
| <i>C. joropo</i> | JAM1339 | Guejar | Colombia | MPUJ ? | OL303528 | | | OL303343 | | OL303865 | |
| <i>C. joropo</i> | T17428 | Meta | Colombia | ROM 95259 | OL303529 | | OL303656 | OL303344 | OL303223 | OL303866 | OL303757 |
| <i>C. joropo</i> | T17429 | Meta | Colombia | ROM 95259 | OL303530 | | OL303657 | | OL303224 | OL303867 | OL303758 |
| <i>C. leucomelas</i> | T24464 | Calima | Colombia | ROM 106903 | | | | OL303458 | | | |
| <i>C. leucomelas</i> | T24512 | Cauca | Colombia | ROM 106914 | | | | OL303345 | OL303225 | | |
| <i>C. leucomelas</i> | T24663 | Cauca | Colombia | ROM 106229 | | | | OL303346 | | | |
| <i>C. lexa</i> * | PE08591 | Huallaga | Peru | MHNG 2712.071 | KP959856* | | KP960198* | OL303422* | KP960014* | KP960304* | KP960441* |
| <i>C. lineopunctatum</i> | P4814 | Madre de Dios | Peru | ANSP 180448 | | EU359410* | GU569913* | | GQ214573* | GQ225444* | |
| <i>C. lineopunctatum</i> | T10088 | Madre de Dios | Peru | AUM 51166 | OL303531 | | OL303658 | OL303347 | OL303226 | OL303868 | OL303759 |
| <i>C. lineopunctatum</i> | T10089 | Madre de Dios | Peru | AUM 51166 | OL303532 | | OL303659 | OL303348 | OL303227 | OL303869 | OL303760 |
| <i>C. lineopunctatum</i> * | PE08047 | Ucayali | Peru | MHNG 2712.041 | KP959855* | | KP960199* | OL303423* | KP960009* | KP960305* | KP960440* |
| <i>C. lineopunctatum</i> | P4772 | Urubamba | Peru | ANSP 180446 | | EU359409* | GU569899* | | GQ214574* | GQ225445* | |
| <i>C. lobarhynchos</i> | TK70561 | Tulumayo | Peru | MUSM 20291 | | | KJ947862* | | | | |
| <i>C. lobarhynchos</i> | TK70562 | Tulumayo | Peru | MUSM 20291 | | | KJ947863* | | | | |
| <i>C. lobarhynchos</i> | TK70563 | Tulumayo | Peru | MUSM 20291 | | | KJ947864* | | | | |
| <i>C. lobarhynchos</i> | TK70579 | Paucartambo | Peru | MUSM 20307 | | | KJ947865* | | | | |
| <i>C. lobarhynchos</i> | TK70580 | Paucartambo | Peru | MUSM 20307 | | | KJ947866* | | | | |
| <i>C. lobarhynchos</i> | TK70581 | Paucartambo | Peru | MUSM 20307 | | | KJ947867* | | | | |
| <i>C. marmorescens</i> * | CH197 | Huallaga | Peru | MUSM 44898 | OL303533* | | OL303660* | OL303424* | OL303228* | OL303870* | OL303761* |
| <i>C. marmorescens</i> * | CH198 | Huallaga | Peru | MUSM 44898 | KP959848* | | KP960194* | OL303425* | KP960008* | KP960300* | KP960444* |
| <i>C. marmorescens</i> * | CH199 | Huallaga | Peru | MUSM 44898 | OL303534* | | OL303661* | | OL303229* | OL303871* | OL303762* |
| <i>C. microps</i> | CH121 | Huallaga | Peru | MUSM 44313 | OL303535 | | OL303662 | OL303426 | OL303230 | OL303872 | OL303763 |
| <i>C. microps</i> | CH132 | Huallaga | Peru | MUSM 44830 | OL303536 | | OL303663 | OL303427 | OL303231 | OL303873 | OL303764 |
| <i>C. microps</i> | CH148 | Huallaga | Peru | MUSM 44869 | OL303537 | | OL303664 | OL303459 | OL303232 | OL303874 | OL303765 |
| <i>C. microps</i> | CH149 | Huallaga | Peru | MUSM 44869 | OL303538 | | OL303665 | OL303447 | OL303233 | OL303875 | |
| <i>C. microps</i> | CH150 | Huallaga | Peru | MUSM 44869 | OL303539 | | OL303666 | OL303350 | OL303234 | OL303876 | |
| <i>C. microps</i> | PE08190 | Huallaga | Peru | MHNG 2712.046 | OL303540 | | OL303667 | OL303448 | OL303235 | OL303877 | OL303766 |
| <i>C. microps</i> | PE08580 | Huallaga | Peru | MHNG 2712.070 | OL303541 | | OL303668 | OL303449 | OL303236 | OL303878 | OL303767 |
| <i>C. microps</i> | P6034 | Marañon | Peru | AUM 45518 | OL303542 | | OL303669 | OL303351 | | OL303879 | OL303768 |
| <i>C. microps</i> | T14364 | Napo S | Ecuador | ROM 93949 | OL303543 | | OL303670 | OL303352 | OL303237 | OL303880 | OL303769 |
| <i>C. microps</i> | MEPN1255 | Napo S cave | Ecuador | MEPN 1255 | | | OL303671 | OL303450 | OL303293 | | |
| <i>C. microps</i> | MEPN1259 | Napo S cave | Ecuador | MEPN 19165 | | | OL303672 | OL303460 | | | |

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|-------------------------|---------|-------------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <i>C. microps</i> * | T14125 | Santiago | Ecuador | ROM 93895 | KP959836* | KP960189* | OL303353* | KP959926* | KP960301* | KP960433* |
| <i>C. microps</i> * | T14153 | Santiago | Ecuador | ROM 93902 | OL303544* | OL303673* | OL303354* | | OL303881* | OL303770* |
| <i>C. microps</i> | T14096 | Yungantza | Ecuador | ROM 93877 | OL303545 | OL303674 | OL303355 | OL303238 | | |
| <i>C. microps</i> | T14097 | Yungantza | Ecuador | ROM 93877 | OL303546 | OL303675 | OL303356 | | | OL303771 |
| <i>C. milesi</i> | T24605 | Suaza | Colombia | ROM 106963 | | OL303676 | OL303357 | OL303239 | | |
| <i>C. milesi</i> | T24606 | Suaza | Colombia | ROM 106963 | | | OL303358 | OL303240 | | |
| <i>C. milesi</i> | JAM1984 | Suaza | Colombia | MPUJ ? | OL303547 | OL303677 | OL303451 | OL303241 | OL303882 | |
| <i>C. n.sp. Ucayali</i> | PE08121 | Ucayali | Peru | MHNG 2712.042 | OL303548 | OL303678 | OL303452 | OL303242 | OL303883 | OL303772 |
| <i>C. nudirostre</i> | T2084 | Valencia | Venezuela | ANSP 191471 | OL303549 | OL303682 | | | | OL303775 |
| <i>C. nudirostre</i> | T2085 | Valencia | Venezuela | ANSP 191471 | OL303550 | | | | | |
| <i>C. orientale</i> | 562 | Maicuru | Brazil | MCP 50363 | | OK514642 | OL303598 | OL303349 | OL303809 | OL303718 |
| <i>C. orientale</i> | 2500 | Maicuru | Brazil | INPA-ICT 58110 | | OK514637 | | | | |
| <i>C. orientale</i> | 2604 | Xingu Seiko | Brazil | INPA-ICT 58146 | | OK514645 | | | | |
| <i>C. orientale</i> | 2605 | Xingu Seiko | Brazil | INPA-ICT 58146 | | OK514646 | | | | |
| <i>C. orientale</i> | 2606 | Xingu Seiko | Brazil | INPA-ICT 58146 | | OK514647 | | | | |
| <i>C. orientale</i> | 2607 | Xingu Seiko | Brazil | INPA-ICT 58146 | | OK514648 | | | | |
| <i>C. orientale</i> | B1464 | Xingu Seiko | Brazil | ANSP 199686 | OL303551 | OK514638 | OL303679 | OL303461 | OL303243 | OL303884 |
| <i>C. orientale</i> | B1472 | Xingu Seiko | Brazil | ANSP 199686 | OL303552 | OK514639 | OL303680 | OL303359 | OL303244 | OL303885 |
| <i>C. orientale</i> | B1487 | Xingu Seiko | Brazil | ANSP 199686 | OL303553 | OK514640 | OL303681 | OL303360 | OL303245 | OL303886 |
| <i>C. palmeri</i> | T20995 | Meta | Colombia | ROM 98984 | | | | OL303361 | | |
| <i>C. palmeri</i> | T24702 | Calima | Colombia | ROM 106326 | | | | OL303362 | | |
| <i>C. patiae</i> | T24573 | Mazamorras | Colombia | ROM 106948 | | | | OL303363 | OL303246 | |
| <i>C. patiae</i> | T24574 | Mazamorras | Colombia | ROM 106948 | | | | OL303364 | OL303247 | |
| <i>C. patiae</i> | T24528 | Patia | Colombia | ROM 106954 | | | | OL303365 | OL303294 | |
| <i>C. patiae</i> | T24529 | Patia | Colombia | ROM 106954 | | | | OL303366 | OL303248 | |
| <i>C. patiae</i> | T24543 | Patia | Colombia | ROM 106230 | | | | OL303367 | OL303249 | |
| <i>C. patiae</i> | T24545 | Patia | Colombia | ROM 106230 | | | | OL303368 | OL303295 | |
| <i>C. platyrhynchus</i> | T24818 | Caqueta | Colombia | ROM 107268 | | | | OL303369 | | |
| <i>C. platyrhynchus</i> | T24908 | Caqueta | Colombia | ROM 107818 | | | | OL303370 | | |
| <i>C. platyrhynchus</i> | T24985 | Caqueta | Colombia | ROM 107855 | | | | OL303371 | | |
| <i>C. platyrhynchus</i> | T19557 | Napo | Ecuador | ROM 100230 | | | | OL303372 | | |
| <i>C. platyrhynchus</i> | T24819 | Orteguasa | Colombia | ROM 107268 | | | | OL303462 | | |
| <i>C. platyrhynchus</i> | T24943 | Pepino | Colombia | ROM 107836 | | | | OL303441 | OL303250 | |
| <i>C. platyrhynchus</i> | T24973 | Pepino | Colombia | ROM 107844 | | | | OL303463 | OL303296 | |
| <i>C. sp. CuruaUna</i> | 525 | Curua-Una | Brazil | MCP 53005 | | OK514641 | OL303599 | OL303373 | OL303810 | OL303719 |
| <i>C. sp. L402</i> | T08954 | Apure | Venezuela | AUM 54034 | OL303554 | | OL303683 | OL303442 | OL303251 | |
| <i>C. sp. L402</i> | T08955 | Apure | Venezuela | AUM 54034 | OL303555 | | OL303684 | OL303443 | OL303252 | OL303776 |
| <i>C. sp. L402</i> | T491 | Apure | Venezuela | AUM 41073 | OL303556 | | OL303685 | OL303444 | | |
| <i>C. sp. L402</i> | T621 | Apure | Venezuela | INHS 56147 | OL303557 | | OL303686 | OL303445 | | OL303777 |
| <i>C. sp. L445</i> | T12930 | Meta | Colombia | ROM 94925 | KP959852* | KP960193* | | KP960010* | KP960302* | KP960435* |

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|--------------------------|---------|-----------|-----------|---------------|-----------|----------|-----------|-----------|-----------|-----------|
| <i>C. sp. L445</i> | T17424 | Meta | Colombia | ROM 95257 | OL303558 | | OL303687 | OL303253 | OL303886 | OL303778 |
| <i>C. sp. L445</i> | T17425 | Meta | Colombia | ROM 95257 | OL303559 | | OL303688 | OL303374 | OL303254 | OL303888 |
| <i>C. stroumpoulos*</i> | CH120 | Huallaga | Peru | MUSM 44303 | OL303560* | | OL303689* | OL303446* | OL303255* | OL303889* |
| <i>C. stroumpoulos*</i> | CH131 | Huallaga | Peru | MUSM 44829 | OL303561* | | OL303690* | OL303375* | OL303256* | OL303890* |
| <i>C. stroumpoulos*</i> | CH142 | Huallaga | Peru | MUSM 44847 | OL303562* | | OL303691* | OL303464* | OL303257* | OL303890* |
| <i>C. stroumpoulos*</i> | PE08209 | Huallaga | Peru | MHNG 2712.050 | OL303563* | | OL303692* | OL303428* | OL303258* | OL303892* |
| <i>C. stroumpoulos*</i> | PE08210 | Huallaga | Peru | MHNG 2712.049 | OL303564* | | OL303693* | OL303429* | OL303259* | OL303893* |
| <i>C. stroumpoulos*</i> | PE08307 | Huallaga | Peru | MHNG 2712.056 | OL303565* | | OL303694* | OL303430* | OL303260* | OL303894* |
| <i>C. thomsoni</i> | JAM676 | Charala | Colombia | MPUJ ? | OL303566 | | | OL303440 | OL303261 | OL303895 |
| <i>C. thomsoni</i> | JAM677 | Charala | Colombia | MPUJ ? | | | | OL303376 | | OL303896 |
| <i>C. thomsoni</i> | JAM1966 | Chucuri | Colombia | ICNMHN 17768 | OL303567 | | OL303695 | OL303431 | OL303297 | OL303897 |
| <i>C. thomsoni</i> | JAM1968 | Chucuri | Colombia | ICNMHN 17734 | OL303568 | | | OL303432 | OL303262 | OL303898 |
| <i>C. thomsoni</i> | T24589 | Suaza | Colombia | ROM 106967 | | | | OL303377 | OL303263 | |
| <i>C. thomsoni</i> | T24590 | Suaza | Colombia | ROM 106967 | | | | OL303378 | OL303264 | |
| <i>C. thomsoni</i> | JAM1972 | Villeta | Colombia | MPUJ 7864 | OL303569 | | | OL303433 | OL303265 | |
| <i>C. trimaculineum</i> | P6047 | Marañon | Peru | AUM 45524 | OL303570 | | OL303696 | | OL303266 | OL303899 |
| <i>C. trimaculineum</i> | T14136 | Santiago | Ecuador | ROM 93894 | OL303571 | | OL303697 | OL303379 | OL303267 | OL303900 |
| <i>C. vasquezi</i> | V27 | Caroni | Venezuela | AUM 36555 | OL303572 | OK514643 | OL303698 | OL303380 | OL303268 | OL303901 |
| <i>C. vasquezi</i> | V28 | Caroni | Venezuela | AUM 36555 | OL303573 | OK514644 | OL303699 | OL303381 | OL303269 | OL303902 |
| <i>C. vasquezi*</i> | T09945 | Caura | Venezuela | AUM 53812 | KP959825* | | KP960192* | OL303382 | KP960007* | KP960314* |
| Outgroups | | | | | | | | | | |
| <i>A. eschwartzae*</i> | T14249 | Pastaza | Ecuador | AUM 64664 | OL303473* | | OL303600* | OL303299* | OL303178* | OL303811* |
| <i>A. eschwartzae*</i> | T14250 | Pastaza | Ecuador | AUM 64664 | OL303474* | | OL303601* | OL303300* | OL303179* | OL303812* |
| <i>A. platycephalus*</i> | T14019 | Santiago | Ecuador | ROM 93847 | OL303475* | | OL303602* | OL303301* | OL303180* | OL303813* |
| <i>A. platycephalus*</i> | T14023 | Santiago | Ecuador | ROM 93847 | OL303476* | | OL303603* | OL303302* | | OL303722* |
| <i>C. daguae</i> | JAM651 | Dagua | Colombia | MPUJ ? | | | OL303700 | OL303383 | | OL303903 |
| <i>C. daguae</i> | T24426 | Dagua | Colombia | ROM 106395 | | | OL303701 | OL303384 | OL303270 | |
| <i>C. daguae</i> | T24721 | Dagua | Colombia | ROM 106378 | | | OL303702 | OL303385 | OL303298 | |
| <i>C. n.sp. Dagua</i> | JAM650 | Dagua | Colombia | MPUJ ? | OL303574 | | | OL303434 | | OL303904 |
| <i>C. n.sp. Dagua</i> | T24440 | Dagua | Colombia | ROM 106394 | | | OL303703 | OL303386 | OL303271 | |
| <i>C. pijao</i> | T24621 | Suaza | Colombia | ROM 106965 | | | | OL303465 | OL303272 | |
| <i>C. pijao</i> | T24622 | Suaza | Colombia | ROM 106965 | | | | OL303435 | OL303273 | |
| <i>C. pijao</i> | T24623 | Suaza | Colombia | ROM 106965 | | | | OL303466 | | |
| <i>C. torbesensis*</i> | T674 | Torbes | Venezuela | INHS 55478 | OL303575* | | | OL303436* | OL303274* | OL303905* |
| <i>C. torbesensis*</i> | T679 | Torbes | Venezuela | INHS 55478 | OL303576* | | | OL303387* | | OL303906* |
| <i>C. torbesensis*</i> | T680 | Torbes | Venezuela | INHS 55478 | OL303577* | | | OL303388* | OL303275* | OL303907* |
| <i>C. torbesensis*</i> | T681 | Torbes | Venezuela | INHS 55478 | OL303578* | | | OL303437* | OL303276* | OL303908* |
| <i>D. carnegiei</i> | 6647 | Magdalena | Colombia | ANSP 189598 | OL303579 | | OL303704 | OL303389 | OL303277 | OL303909* |
| <i>D. carnegiei</i> | 6649 | Magdalena | Colombia | ANSP 189598 | OL303580 | | OL303705 | OL303390 | OL303278 | OL303910* |
| <i>D. carnegiei</i> | JAM1978 | | Colombia | MPUJ ? | OL303581 | | | OL303439 | | OL303911* |

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| <i>D. fuesslii</i> * | T14620 | Guaviare | Colombia | ROM 94484 | OL303582* | OL303706* | OL303391* | OL303279* | OL303912* | |
| <i>D. fuesslii</i> * | T14621 | Guaviare | Colombia | ROM 94484 | OL303583* | OL303707* | OL303392* | OL303280* | OL303913* | OL303796* |
| <i>D. fuesslii</i> * | T14624 | Guaviare | Colombia | ROM 94484 | OL303584* | OL303708* | OL303393* | OL303281* | OL303914* | |
| <i>L. canensis</i> | T9031 | Cocle del N | Panama | STRI AM-55 | OL303585 | OL303709 | OL303467 | OL303282 | OL303915 | OL303797 |
| <i>L. canensis</i> | T9032 | Cocle del N | Panama | STRI AM-56 | OL303586 | OL303710 | OL303438 | OL303283 | OL303916 | OL303798 |
| <i>L. canensis</i> | T9029 | Cocle del N | Panama | STRI 11050 | OL303587 | OL303711 | OL303394 | OL303284 | OL303917 | |
| <i>L. canensis</i> | T9039 | Indio | Panama | STRI 6058 | OL303588 | OL303712 | OL303395 | OL303285 | OL303918 | |
| <i>L. canensis</i> * | T9033 | Tuira | Panama | STRI 11580 | OL303589* | OL303713* | | OL303286* | OL303919* | OL303799* |
| <i>T. aequinoctialis</i> * | T13525 | Esmeraldas | Ecuador | ROM 93661 | OL303590* | OL303714* | OL303396* | OL303287* | OL303920* | OL303800* |
| <i>T. santarosensis</i> * | T13980 | Santa Rosa | Ecuador | ROM 93798 | OL303591* | OL303715* | OL303397* | OL303288* | OL303921* | OL303801* |