

TABLE S1 | Data of 203 sequences from Melo *et al.* (2018), and the seven sequences of *Cyphocharax tamuya* utilized in the present study. Institutional abbreviations follow Sabaj (2020).

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|-----------------------------------|---------------|---------------|-------------------|------------------------------|
| <i>Brycon pesu</i> | OS 18361 | PE10-072 | KX086789 | PE10072Bryconpesu |
| <i>Caenotropus mestomorgmatos</i> | ANSP 180516 | T48 | KF562412 | T48Caenotropusmestomorgmatos |
| <i>Chilodus fritillus</i> | AUM 51355 | T10201 | KF562418 | T10201Chilodusfritillus |
| <i>Curimata acutirostris</i> | LBP 7744 | 36724 | MH537230 | 36724Curimataacutirostris |
| <i>Curimata acutirostris</i> | LBP 1802 | 13168 | MH537229 | 13168Curimataacutirostris |
| <i>Curimata acutirostris</i> | LBP 9260 | 41319 | MH537231 | 41319Curimataacutirostris |
| <i>Curimata cyprinoides</i> | MHNG 2705.007 | SUJM-007 | MH537233 | SUJM127Curimatacyprinoides |
| <i>Curimata cyprinoides</i> | USNM 402473 | GY11-1-03 | KX086781 | GY11103Curimatacyprinoides |
| <i>Curimata cyprinoides</i> | MHNG 2705.007 | SUJM-007 | MH537233 | 15717Curimatacyprinoides |
| <i>Curimata incompta</i> | ANSP 191354 | BO-6125 | MH537234 | BO6125Curimataincompta |
| <i>Curimata inornata</i> | LBP 13842 | 57293 | MH537235 | 57293Curimatainornata |
| <i>Curimata inornata</i> | USNM 402471 | GY11-2-53 | MH537236 | GY11253Curimatainornata |
| <i>Curimata knerii</i> | LBP 12864 | 53467 | MH537237 | 53467Curimataknerii |
| <i>Curimata knerii</i> | LBP 12864 | 53468 | MH537238 | 53468Curimataknerii |
| <i>Curimata macrops</i> | UEMA 104581 | ITAPE 226-15 | BOLD-ITAPE 226-15 | ITAPE22615Curimatamacrops |
| <i>Curimata macrops</i> | UEMA 104581 | ITAPE 227-15 | BOLD-ITAPE 227-15 | ITAPE22715Curimatamacrops |
| <i>Curimata macrops</i> | UEMA 104581 | ITAPE 228-15 | BOLD-ITAPE 228-15 | ITAPE22815Curimatamacrops |
| <i>Curimata mivartii</i> | CMIV-UNAL-001 | UNAL001 | KP025764 | UNAL001Curimatamivartii |
| <i>Curimata roseni</i> | ANSP 180389 | T38 | MH537240 | T38Curimataroseni |
| <i>Curimata roseni</i> | ANSP 189094 | V071 | MH537239 | V071Curimataroseni |
| <i>Curimata vittata</i> | LBP 13846 | 57302 | MH537241 | 57302Curimatavittata |
| <i>Curimata vittata</i> | ANSP 182217 | V070 | MH537242 | V070Curimatavittata |
| <i>Curimatella dorsalis</i> | LBP 3054 | 19167 | MH537243 | 19167Curimatelladorsalis |
| <i>Curimatella dorsalis</i> | LBP 3759 | 22034 | KF562433 | 22034Curimatelladorsalis |
| <i>Curimatella dorsalis</i> | OS 18376 | PE10-069 | MH537244 | PE10069Curimatelladorsalis |
| <i>Curimatella immaculata</i> | LBP 5606 | 27341 | MH537246 | 27341Curimatellaimmaculata |
| <i>Curimatella immaculata</i> | LBP 15269 | 63217 | MH537247 | 63217Curimatellaimmaculata |
| <i>Curimatella immaculata</i> | ANSP 191246 | BO6119 | MH537245 | BO6119Curimatellaimmaculata |
| <i>Curimatella lepidura</i> | LBP 11352 | 45506 | MH537248 | 45506Curimatellalepidura |
| <i>Curimatella lepidura</i> | LBP 11352 | 45507 | MH537249 | 45507Curimatellalepidura |
| <i>Curimatella lepidura</i> | DCC409 | DCC409 | HM405105 | DCC409Curimatellalepidura |
| <i>Curimatella lepidura</i> | DCC411 | DCC411 | HM405106 | DCC411Curimatellalepidura |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|---------------------------------|-------------|---------------|--------------|-------------------------------|
| <i>Curimatella lepidura</i> | DCC406 | DCC406 | HM405104 | DCC406Curimatellalepidura |
| <i>Curimatella meyeri</i> | LBP 4253 | 22748 | MH537250 | 22748Curimatellameyeri |
| <i>Curimatella meyeri</i> | UFRO uncat. | 67037 | MH537251 | 67037Curimatellameyeri |
| <i>Curimatopsis cryptica</i> | ANSP 189091 | 7057 | MH537252 | 7057Curimatopsiscryptica |
| <i>Curimatopsis cryptica</i> | LBP 18022 | 72559 | KU519364 | 72559Curimatopsiscryptica |
| <i>Curimatopsis cryptica</i> | LBP 18022 | 72560 | KU519365 | 72560Curimatopsiscryptica |
| <i>Curimatopsis cryptica</i> | LBP 15195 | 63053 | KU519367 | 63053Curimatopsiscryptica |
| <i>Curimatopsis cryptica</i> | LBP 18022 | 72558 | KU519366 | 72558Curimatopsiscryptica |
| <i>Curimatopsis evelynae</i> | LBP 4454 | 24362 | KU519339 | 24362Curimatopsisevelynae |
| <i>Curimatopsis evelynae</i> | LBP 4423 | 24296 | KU519341 | 24296Curimatopsisevelynae |
| <i>Curimatopsis evelynae</i> | LBP 4453 | 24360 | KU519340 | 24360Curimatopsisevelynae |
| <i>Curimatopsis guaporensis</i> | LBP 11062 | 50685 | KU519349 | 50685Curimatopsiscastanea |
| <i>Curimatopsis guaporensis</i> | LBP 11040 | 50620 | KU519348 | 50620Curimatopsiscastanea |
| <i>Curimatopsis guaporensis</i> | LBP 11040 | 50621 | KU519347 | 50621Curimatopsiscastanea |
| <i>Curimatopsis macrolepis</i> | LBP 4087 | 23517 | KU519380 | 23517Curimatopsismacrolepis |
| <i>Curimatopsis macrolepis</i> | LBP 4087 | 23520 | KU519379 | 23520Curimatopsismacrolepis |
| <i>Curimatopsis macrolepis</i> | LBP 12064 | 51640 | KU519382 | 51640Curimatopsismacrolepis |
| <i>Curimatopsis macrolepis</i> | ANSP 178188 | 1697 | KX086740 | 1697Curimatopsismacrolepis |
| <i>Curimatopsis macrolepis</i> | OS 18337 | PE10-086 | KU519386 | PE10086Curimatopsismacrolepis |
| <i>Curimatopsis macrolepis</i> | OS 18767 | PE10-087 | KU519388 | PE10087Curimatopsismacrolepis |
| <i>Curimatopsis maculosa</i> | LBP 13907 | 57451 | KU519373 | 57451Curimatopsismaculosa |
| <i>Curimatopsis maculosa</i> | LBP 13907 | 57452 | KU519375 | 57452Curimatopsismaculosa |
| <i>Curimatopsis maculosa</i> | LBP 17824 | 67521 | KU519376 | 67521Curimatopsismaculosa |
| <i>Curimatopsis myersi</i> | LBP 7649 | 36457 | KU519356 | 36457Curimatopsismyersi |
| <i>Curimatopsis myersi</i> | LBP 7649 | 36459 | KU519357 | 36459Curimatopsismyersi |
| <i>Curimatopsis myersi</i> | LBP 14006 | 58312 | KU519355 | 58312Curimatopsismyersi |
| <i>Curimatopsis myersi</i> | LBP 14006 | 58310 | KU519360 | 58310Curimatopsismyersi |
| <i>Curimatopsis myersi</i> | LBP 14006 | 58311 | KU519361 | 58311Curimatopsismyersi |
| <i>Curimatopsis pallida</i> | LBP 4428 | 24309 | KU519343 | 24309Curimatopsispallida |
| <i>Curimatopsis pallida</i> | LBP 21105 | 24295 | KU519344 | 24295Curimatopsispallida |
| <i>Curimatopsis pallida</i> | LBP 18312 | 74398 | KU519342 | 74398Curimatopsispallida |
| <i>Cyphocharax abramoides</i> | ANSP 189092 | V5411 | MH537253 | V5411Cyphocharaxabramoides |
| <i>Cyphocharax aspilos</i> | LBP 6109 | 29561 | MH537254 | 29561Cyphocharaxaspilos |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|----------------------------------|---------------|---------------|--------------|-------------------------------|
| <i>Cyphocharax boiadeiro</i> | LBP 1446 | 12595 | MH537255 | 12595Cyphocharaxboiadeiro |
| <i>Cyphocharax boiadeiro</i> | LBP 1446 | 12596 | MH537256 | 12596Cyphocharaxboiadeiro |
| <i>Cyphocharax corumbae</i> | LBP 17244 | 68908 | MH537257 | 68908Cyphocharaxcorumbae |
| <i>Cyphocharax corumbae</i> | LBP 17244 | 68909 | MH537258 | 68909Cyphocharaxcorumbae |
| <i>Cyphocharax corumbae</i> | Unknown | NUP1 | JN813077 | NUP1Cyphocharaxcorumbae |
| <i>Cyphocharax corumbae</i> | Unknown | NUP2 | JN813076 | NUP2Cyphocharaxcorumbae |
| <i>Cyphocharax gilbert</i> | LBP 8343 | 40130 | KX086768 | 40130Cyphocharaxgilbert |
| <i>Cyphocharax gilbert</i> | LBP 2370 | 16052 | GU702078 | 16052Cyphocharaxgilbert |
| <i>Cyphocharax gilbert</i> | LBP 2370 | 16053 | GU702077 | 16053Cyphocharaxgilbert |
| <i>Cyphocharax gilbert</i> | LBP 2370 | 16054 | GU702075 | 16054Cyphocharaxgilbert |
| <i>Cyphocharax gilbert</i> | LBP 10734 | 49733 | MH537259 | 49733Cyphocharaxgilbert |
| <i>Cyphocharax gillii</i> | LBP 10789 | 49895 | MH537260 | 49895Cyphocharaxgillii |
| <i>Cyphocharax gillii</i> | LBP 13623 | 56613 | MH537262 | 56613Cyphocharaxgillii |
| <i>Cyphocharax gillii</i> | LBP 13623 | 56614 | MH537263 | 56614Cyphocharaxgillii |
| <i>Cyphocharax gillii</i> | LBP 13623 | 56612 | MH537261 | 56612Cyphocharaxgillii |
| <i>Cyphocharax gouldingi</i> | MHNG 2664.100 | GF03-135 | MH537265 | 15716Cyphocharaxgouldingi |
| <i>Cyphocharax gouldingi</i> | LBP 2432 | 16291 | MH537264 | 16291Cyphocharaxgouldingi |
| <i>Cyphocharax helleri</i> | MHNG 2718.046 | SU08-489 | MH537266 | 15724Cyphocharaxhelleri |
| <i>Cyphocharax leucostictus</i> | LBP 15951 | 66102 | MH537267 | 66102Cyphocharaxleucostictus |
| <i>Cyphocharax magdalenae</i> | STRI 1144 | BFD 1642 | MH537268 | STRI1144Cyphocharaxmagdalenae |
| <i>Cyphocharax magdalenae</i> | STRI 1145 | BFD 1631 | MH537269 | STRI1145Cyphocharaxmagdalenae |
| <i>Cyphocharax mestomylon</i> | LBP 16372 | 67271 | MH537270 | 67271Cyphocharaxmestomylon |
| <i>Cyphocharax mestomylon</i> | LBP 16372 | 67272 | MH537271 | 67272Cyphocharaxmestomylon |
| <i>Cyphocharax microcephalus</i> | - | - | - | 15725Cyphocharaxmicrocephalus |
| <i>Cyphocharax modestus</i> | LBP 8362 | 40165 | MH537273 | 40165Cyphocharaxmodestus |
| <i>Cyphocharax modestus</i> | LBP 3193 | 19392 | JN988838 | 19392Cyphocharaxmodestus |
| <i>Cyphocharax modestus</i> | LBP 3193 | 19391 | JN988837 | 19391Cyphocharaxmodestus |
| <i>Cyphocharax modestus</i> | LBP 5017 | 25948 | JN988836 | 25948Cyphocharaxmodestus |
| <i>Cyphocharax multilineatus</i> | LBP 6964 | 34001 | MH537274 | 34001Cyphocharaxmultilineatus |
| <i>Cyphocharax multilineatus</i> | LBP 6964 | 34002 | MH537275 | 34002Cyphocharaxmultilineatus |
| <i>Cyphocharax nagelii</i> | LBP 6552 | 31730 | JN988841 | 31730Cyphocharaxnagelii |
| <i>Cyphocharax nagelii</i> | LBP 6552 | 31732 | JN988843 | 31732Cyphocharaxnagelii |
| <i>Cyphocharax nigripinnis</i> | LBP 4490 | 24472 | MH537276 | 24472Cyphocharaxnigripinnis |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|-----------------------------------|---------------|---------------|--------------|--------------------------------|
| <i>Cyphocharax notatus</i> | LBP 5734 | 26865 | MH537277 | 26865Cyphocharaxnotatus |
| <i>Cyphocharax notatus</i> | LBP 5734 | 26867 | MH537278 | 26867Cyphocharaxnotatus |
| <i>Cyphocharax oenas</i> | LBP 9970 | 46801 | MH537279 | 46801Cyphocharaxoenas |
| <i>Cyphocharax oenas</i> | LBP 9970 | 46802 | MH537280 | 46802Cyphocharaxoenas |
| <i>Cyphocharax platanus</i> | MAG-ICT 0011 | LAR011 | KU288769 | LAR011Cyphocharaxplatanus |
| <i>Cyphocharax platanus</i> | MAG-ICT 0015 | LAR015 | KU288773 | LAR015Cyphocharaxplatanus |
| <i>Cyphocharax platanus</i> | MCP 21655 | T21655 | MH537281 | mcp21655Cyphocharaxplatanus |
| <i>Cyphocharax plumbeus</i> | OS 18373 | PE10-071 | MH537284 | PE10071Cyphocharaxplumbeus |
| <i>Cyphocharax plumbeus</i> | OS 18769 | PE10-099 | MH537285 | PE10099Cyphocharaxplumbeus |
| <i>Cyphocharax plumbeus</i> | OS 18326 | PE10-145 | MH537282 | PE10145Cyphocharaxplumbeus |
| <i>Cyphocharax plumbeus</i> | OS 18326 | PE10-149 | MH537283 | PE10149Cyphocharaxplumbeus |
| <i>Cyphocharax saladensis</i> | LBP 13164 | 55055 | MH537286 | 55055Cyphocharaxsaladensis |
| <i>Cyphocharax saladensis</i> | LBP 13164 | 55062 | MH537287 | 55062Cyphocharaxsaladensis |
| <i>Cyphocharax santacatarinae</i> | LBP 7447 | 35788 | MH537288 | 35788Cyphocharaxsantacatarinae |
| <i>Cyphocharax spilotos</i> | LBP 4747 | 25521 | KX086763 | 25521Cyphocharaxspilotos |
| <i>Cyphocharax spiluroopsis</i> | LBP 1537 | 11889 | KF562434 | 11889Cyphocharaxspiluroopsis |
| <i>Cyphocharax spiluroopsis</i> | LBP 8876 | 44345 | MH537289 | 44345Cyphocharaxspiluroopsis |
| <i>Cyphocharax spiluroopsis</i> | LBP 14163 | 59220 | MH537290 | 59220Cyphocharaxspiluroopsis |
| <i>Cyphocharax spilurus</i> | ANSP 189157 | 6877 | MH537292 | 6877Cyphocharaxspilurus |
| <i>Cyphocharax spilurus</i> | MHNG 2706.087 | SU07-419 | MH537291 | 15719Cyphocharaxspilurus |
| <i>Cyphocharax spilurus</i> | USNM uncat | GY11-2-74 | MH537293 | GY11274Cyphocharaxspilurus |
| <i>Cyphocharax spilurus</i> | USNM 403679 | GY11-4-43 | MH537294 | GY11443Cyphocharaxspilurus |
| <i>Cyphocharax tamuya</i> | MZUSP 126668 | Mzict_6210 | ON997071 | Mzict_6210_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126668 | Mzict_6211 | ON997072 | Mzict_6211_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126668 | Mzict_6212 | ON997073 | Mzict_6212_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126668 | Mzict_6213 | ON997074 | Mzict_6213_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126668 | Mzict_6214 | ON997075 | Mzict_6214_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126669 | Mzict_6215 | OP056028 | Mzict_6215_C_tamuya |
| <i>Cyphocharax tamuya</i> | MZUSP 126669 | Mzict_6216 | ON997076 | Mzict_6216_C_tamuya |
| <i>Cyphocharax vanderi</i> | LBP 2601 | 17372 | JN988846 | 17372Cyphocharaxvanderi |
| <i>Cyphocharax vanderi</i> | LBP 2601 | 17373 | JN988847 | 17373Cyphocharaxvanderi |
| <i>Cyphocharax vanderi</i> | LBP 3871 | 22449 | MH537295 | 22449Cyphocharaxvanderi |
| <i>Cyphocharax vanderi</i> | LBP 3871 | 22450 | MH537296 | 22450Cyphocharaxvanderi |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|-------------------------------------|-------------|---------------|--------------|-------------------------------------|
| <i>Cyphocharax voga</i> | Unknown | UNMDPT295 | JX111741 | UNMDPT295Cyphocharaxvoga |
| <i>Cyphocharax voga</i> | LBP 17002 | 68367 | MH537298 | 68367Cyphocharaxvoga |
| <i>Cyphocharax voga</i> | LBP 3340 | 20479 | MH537297 | 20479Cyphocharaxvoga |
| <i>Cyphocharax voga</i> | Unknown | UNMDPT294 | JX111741 | UNMDPT294Cyphocharaxvoga |
| <i>Cyphocharax voga</i> | Unknown | UNMDPT415 | JX111740 | UNMDPT415Cyphocharaxvoga |
| <i>Hemiodus unimaculatus</i> | OS18345 | PE10-076 | KX086790 | PE10076Hemiodusunimaculatus |
| <i>Leporellus cf vitattus</i> | AUM 54212 | T09912 | KX086795 | T09912Leporelluscfvitattus |
| <i>Myleus schomburgkii</i> | OS 18990 | PE10-044 | KX086786 | PE10044Myleusschomburgkii |
| <i>Potamorhina altamazonica</i> | OS 18312 | PE10-118 | MH537299 | PE10118Potamorhinaaltamazonica |
| <i>Potamorhina altamazonica</i> | OS 18312 | PE10-119 | MH537300 | PE10119Potamorhinaaltamazonica |
| <i>Potamorhina laticeps</i> | LBP 6133 | 29516 | MH537301 | 29516Potamorhinalaticeps |
| <i>Potamorhina latior</i> | LBP 4252 | 22717 | MH537302 | 22717Potamorhinalatior |
| <i>Potamorhina latior</i> | LBP 14931 | 61544 | MH537303 | 61544Potamorhinalatior |
| <i>Potamorhina squamorailevis</i> | LBP 3768 | 22067 | MH537304 | 22067Potamorhinasquamorailevis |
| <i>Potamorhina squamorailevis</i> | LBP 3768 | 22070 | MH537305 | 22070Potamorhinasquamorailevis |
| <i>Prochilodus nigricans</i> | OS 18792 | PE10-045 | KX086787 | PE10045Prochilodusnigricans |
| <i>Psectrogaster amazonica</i> | OS 18313 | PE10-011 | MH537306 | PE10111Psectrogasteramazonica |
| <i>Psectrogaster amazonica</i> | OS 18313 | PE10-013 | KX086792 | PE10113Psectrogasteramazonica |
| <i>Psectrogaster ciliata</i> | LBP 3057 | 19164 | MH537307 | 19164Psectrogasterciliata |
| <i>Psectrogaster ciliata</i> | LBP 3057 | 19165 | MH537308 | 19165Psectrogasterciliata |
| <i>Psectrogaster curviventris</i> | LBP 3850 | 22280 | MH537310 | 22280Psectrogastercurviventris |
| <i>Psectrogaster curviventris</i> | LBP 657 | 8076 | MH537309 | 8076Psectrogastercurviventris |
| <i>Psectrogaster curviventris</i> | LBP 18784 | 54124 | MH537312 | 54124Psectrogastercurviventris |
| <i>Psectrogaster curviventris</i> | LBP 18784 | 54123 | MH537311 | 54123Psectrogastercurviventris |
| <i>Psectrogaster essequeibensis</i> | USNM 401563 | GY11-1-22 | MH537314 | GY11122Psectrogasteressequeibensis |
| <i>Psectrogaster essequeibensis</i> | LBP 14272 | 59531 | MH537313 | 59531Psectrogasteressequeibensis |
| <i>Psectrogaster falcata</i> | LBP 13777 | 57112 | MH537315 | 57112Psectrogasterfalcata |
| <i>Psectrogaster rutiloides</i> | OS 18315 | PE10-114 | MH537316 | PE10114Psectrogasterrutiloides |
| <i>Psectrogaster rutiloides</i> | OS 18315 | PE10-116 | MH537317 | PE10116Psectrogasterrutiloides |
| <i>Pseudocurimata boehlkei</i> | ROM 93679 | T13562 | MH537318 | T13562Pseudocurimataboehlkei |
| <i>Pseudocurimata boehlkei</i> | ROM 93679 | T13563 | MH537319 | T13563Pseudocurimataboehlkei |
| <i>Pseudocurimata boulengeri</i> | ROM 93062 | T13774 | MH537320 | T13774Pseudocurimataboulengeri |
| <i>Pseudocurimata lineopunctata</i> | STRI-1389 | BFD01628 | MH537321 | STRI1389Pseudocurimatilineopunctata |
| <i>Pseudocurimata lineopunctata</i> | STRI-881 | BFD01630 | MH537322 | STRI881Pseudocurimatilineopunctata |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|-----------------------------------|----------------------|---------------|--------------|----------------------------------|
| <i>Pseudocurimata troschelii</i> | LBP 9371 | 43968 | MH537323 | 43968Pseudocurimatatroschelii |
| <i>Pseudocurimata troschelii</i> | Univ. Guayaquil 1542 | PSB201 | MH537200 | PSB201Pseudocurimatatroschelii |
| <i>Pseudocurimata troschelii</i> | Univ. Guayaquil 1542 | PSB202 | MH537201 | PSB202Pseudocurimatatroschelii |
| <i>Pseudocurimata troschelii</i> | ROM 93062 | T13773 | MH537202 | T13773Pseudocurimatatroschelii |
| <i>Schizodon scotorhabdotus</i> | AUM 53654 | T09707 | KX086794 | T09707Schizodonscotorhabdotus |
| <i>Semaprochilodus taeniurus</i> | LBP 1691 | 12757 | KX087051 | 12757Semaprochilodustaeniurus |
| <i>Steindachnerina aff pupula</i> | LBP 16874 | 49335 | MH537338 | 49335Steindachnerinaaffpupula |
| <i>Steindachnerina aff pupula</i> | LBP 16820 | 69256 | MH537339 | 69256Steindachnerinaaffpupula |
| <i>Steindachnerina amazonica</i> | LBP 2463 | 16313 | MH537327 | 16313Steindachnerinaamazonica |
| <i>Steindachnerina argentea</i> | STRI-4270 | BFD01625 | MH537328 | STRI4270Steindachnerinaargentea |
| <i>Steindachnerina bimaculata</i> | LBP 173 | 4023 | MH537329 | 4023Steindachnerinabimaculata |
| <i>Steindachnerina brevipinna</i> | LBP 6690 | 32153 | GU701503 | 32153Steindachnerinabrevipinna |
| <i>Steindachnerina brevipinna</i> | LBP 6690 | 32157 | GU701504 | 32157Steindachnerinabrevipinna |
| <i>Steindachnerina brevipinna</i> | LBP 8448 | 42357 | MH537331 | 42357Steindachnerinabrevipinna |
| <i>Steindachnerina brevipinna</i> | LBP 1477 | 12692 | MH537330 | 12692Steindachnerinabrevipinna |
| <i>Steindachnerina brevipinna</i> | LBP 8573 | 43355 | MH537332 | 43355Steindachnerinabrevipinna |
| <i>Steindachnerina conspersa</i> | LBP 14055 | 58402 | MH537336 | 58402Steindachnerinaconspersa |
| <i>Steindachnerina conspersa</i> | LBP 14005 | 55770 | MH537333 | 55770Steindachnerinaconspersa |
| <i>Steindachnerina conspersa</i> | LBP 14055 | 58401 | MH537335 | 58401Steindachnerinaconspersa |
| <i>Steindachnerina conspersa</i> | LBP 14005 | 55771 | MH537334 | 55771Steindachnerinaconspersa |
| <i>Steindachnerina dobula</i> | ANSP 180798 | 4123 | MH537337 | 4123Steindachnerinadobula |
| <i>Steindachnerina elegans</i> | LBP 8272 | 38329 | MH537340 | 38329Steindachnerinaelegans |
| <i>Steindachnerina elegans</i> | LBP 332 | DCC4301 | HM404891 | DCC4301Steindachnerinaelegans |
| <i>Steindachnerina elegans</i> | DCC567 | DCC567 | HM405100 | DCC567Steindachnerinaelegans |
| <i>Steindachnerina elegans</i> | LBP 8272 | 38330 | MH537341 | 38330Steindachnerinaelegans |
| <i>Steindachnerina elegans</i> | DCC565 | DCC565 | HM405099 | DCC565Steindachnerinaelegans |
| <i>Steindachnerina fasciata</i> | MZUSP 96802 | 6167 | MH537342 | mzusp6167Steindachnerinafasciata |
| <i>Steindachnerina gracilis</i> | LBP 8855 | 44286 | MH537343 | 44286Steindachnerinagracilis |
| <i>Steindachnerina gracilis</i> | LBP 8855 | 44287 | MH537344 | 44287Steindachnerinagracilis |
| <i>Steindachnerina guentheri</i> | LBP 12560 | 54206 | MH537345 | 54206Steindachnerinaguentheri |
| <i>Steindachnerina hypostoma</i> | ANSP 178124 | 1736 | MH537346 | 1736Steindachnerinahypostoma |
| <i>Steindachnerina insculpta</i> | LBP 3192 | 19389 | MH537347 | 19389Steindachnerinainsculpta |
| <i>Steindachnerina insculpta</i> | LBP 3192 | 19390 | JN989238 | 19390Steindachnerinainsculpta |
| <i>Steindachnerina insculpta</i> | LBP 12311 | 40021 | MH537348 | 40021Steindachnerinainsculpta |



TABLE S1 | (Continued)

| Species ID | Voucher | Tissue sample | Genbank code | Sequence name |
|-------------------------------------|---------------|---------------|--------------|------------------------------------|
| <i>Steindachnerina leucisca</i> | ANSP 178125 | 1744 | MH537349 | 1744Steindachnerinaleucisca |
| <i>Steindachnerina notonota</i> | LBP 2354 | 16488 | MH537350 | 16488Steindachnerinanotonota |
| <i>Steindachnerina notonota</i> | LBP 2354 | 16489 | MH537351 | 16489Steindachnerinanotonota |
| <i>Steindachnerina notonota</i> | UEMA 15391 | MEA692 | MH537352 | MEA692Steindachnerinanotonota |
| <i>Steindachnerina notonota</i> | UEMA 15391 | MEA693 | MH537353 | MEA693Steindachnerinanotonota |
| <i>Steindachnerina planiventris</i> | OS 18324 | PE10-144 | MH537354 | PE10144Steindachnerinaplaniventris |
| <i>Steindachnerina planiventris</i> | OS 18324 | PE10-146 | MH537355 | PE10146Steindachnerinaplaniventris |
| <i>Steindachnerina quasimodoi</i> | LBP 4125 | 23621 | MH537356 | 23621Steindachnerinaquasimodoi |
| <i>Steindachnerina seriata</i> | MZUSP 97569 | 7272 | MH537357 | mzusp7272Steindachnerinaseriata |
| <i>Steindachnerina varii</i> | MHNG 2735.038 | GFSU12-215 | MH537358 | GFSU12215Steindachnerinavarii |
| <i>Steindachnerina varii</i> | MHNG 2745.025 | JM13-034 | MH537359 | JM13034Steindachnerinavarii |

REFERENCES

- **Melo BF, Sidlauskas BL, Hoekzema K, Vari RP, Dillman CB, Oliveira C.** Molecular phylogenetics of Neotropical detritivorous fishes of the family Curimatidae (Teleostei: Characiformes). *Mol Phylogenet Evol.* 2018; 127:800–12. <https://doi.org/10.1016/j.ympev.2018.06.027>
- **Sabaj MH.** Codes for Natural History Collections in Ichthyology and Herpetology. *Copeia.* 2020; 108(3):593–669. <https://doi.org/10.1643/ASIHCONDONS2020>

Neotropical Ichthyology



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