

SUPPLEMENTARY MATERIAL S2

TABLE S2 | *Brachygenys* and *Haemulon* specimens sequenced for the present study deposited at the Laboratório de Biologia e Genética de Peixes (LBP), UNESP, in Botucatu, São Paulo. *Voucher deposited at the zoological collection of the Universidade Santa Cecília (AZUSC), in Santos, São Paulo. δ Muscle tissue only.

| Species | Locality (n) | Lot | Specimen | GenBank |
|---------------------------------|--------------------|---------------|----------|----------|
| <i>Brachygenys chrysargyrea</i> | Pernambuco, Brazil | 28677 | 98937 | MK829331 |
| <i>B. chrysargyrea</i> | Pernambuco, Brazil | 28677 | 94938 | MK829332 |
| <i>B. chrysargyrea</i> | Pernambuco, Brazil | 28677 | 97900 | MN602950 |
| <i>Haemulon atlanticus</i> | Ceará, Brazil | 20014 | 80170 | MK238414 |
| <i>H. atlanticus</i> | Pará, Brazil | 21368* | 80806 | MK238417 |
| <i>H. atlanticus</i> | Pará, Brazil | 21368* | 80807 | MK238421 |
| <i>H. atlanticus</i> | Pará, Brazil | 21368* | 80808 | MK238411 |
| <i>H. atlanticus</i> | Pará, Brazil | 21368* | 80809 | MK238412 |
| <i>H. atlanticus</i> | Pará, Brazil | 21368* | 80810 | MK238418 |
| <i>H. atlanticus</i> | Alagoas, Brazil | 23090 | 84381 | MK238419 |
| <i>H. atlanticus</i> | Alagoas, Brazil | 23090 | 84382 | MK238422 |
| <i>H. atlanticus</i> | Alagoas, Brazil | 23090 | 84383 | MK238410 |
| <i>H. atlanticus</i> | Alagoas, Brazil | 274036 | 84358 | MK238420 |
| <i>H. atlanticus</i> | São Paulo, Brazil | 3537 | 21079 | MK238409 |
| <i>H. atlanticus</i> | São Paulo, Brazil | 3537 | 21080 | MK238415 |
| <i>H. atlanticus</i> | São Paulo, Brazil | 21326 | 82056 | MK238413 |
| <i>H. atlanticus</i> | São Paulo, Brazil | 20691 | 80479 | MK238416 |
| <i>H. atlanticus</i> | São Paulo, Brazil | 21359 | 82316 | MK238423 |
| <i>H. aurolineatum</i> | Venezuela | 3021 | 19090 | MK238436 |
| <i>H. aurolineatum</i> | Venezuela | 3021 | 19089 | MK238441 |
| <i>H. aurolineatum</i> | Ceará, Brazil | 20089 | 80395 | MK238440 |
| <i>H. aurolineatum</i> | Ceará, Brazil | 20089 | 80396 | MK238442 |
| <i>H. aurolineatum</i> | Ceará, Brazil | 20089 | 89397 | MK238428 |
| <i>H. aurolineatum</i> | Ceará, Brazil | 20089 | 80398 | MK238443 |
| <i>H. aurolineatum</i> | Ceará, Brazil | 20089 | 80399 | MK238444 |
| <i>H. aurolineatum</i> | Alagoas, Brazil | 23087 | 84359 | MK238433 |
| <i>H. aurolineatum</i> | Alagoas, Brazil | 23088 | 84384 | MK238439 |
| <i>H. aurolineatum</i> | Alagoas, Brazil | 23088 | 84385 | MK238435 |
| <i>H. aurolineatum</i> | Alagoas, Brazil | 23088 | 84386 | MK238438 |
| <i>H. aurolineatum</i> | Alagoas, Brazil | 23088 | 84387 | MK238430 |
| <i>H. aurolineatum</i> | São Paulo, Brazil | 20683 | 80460 | MK238437 |
| <i>H. aurolineatum</i> | São Paulo, Brazil | 20683 | 80461 | MK238434 |
| <i>H. aurolineatum</i> | São Paulo, Brazil | 21343 | 80872 | MK238431 |
| <i>H. aurolineatum</i> | São Paulo, Brazil | 21343 | 80873 | MK238432 |
| <i>H. aurolineatum</i> | São Paulo, Brazil | 21343 | 80874 | MK238429 |
| <i>H. melanurum</i> | Ceará, Brazil | 20054 | 80284 | MK238451 |
| <i>H. melanurum</i> | Ceará, Brazil | 20054 | 80285 | MK238450 |
| <i>H. melanurum</i> | Ceará, Brazil | 20054 | 80286 | MK238452 |
| <i>H. melanurum</i> | Ceará, Brazil | 20054 | 80287 | MK238453 |
| <i>H. parra</i> | Pará, Brazil | uncatalogated | 83804 | MK238626 |
| <i>H. parra</i> | Pernambuco, Brazil | 273596 | 97678 | MK829330 |
| <i>H. parra</i> | São Paulo, Brazil | 2078* | 80003 | MK238427 |
| <i>H. parra</i> | São Paulo, Brazil | 20781* | 80004 | MK238425 |
| <i>H. parra</i> | São Paulo, Brazil | 20781* | 80002 | MK238424 |
| <i>H. plumieri</i> | Ceará, Brazil | 19994 | 80126 | MK238445 |
| <i>H. plumieri</i> | Ceará, Brazil | 19994 | 80124 | MK238446 |
| <i>H. plumieri</i> | Ceará, Brazil | 19994 | 80125 | MK238447 |
| <i>H. plumieri</i> | Ceará, Brazil | 19994 | 80123 | MK238448 |
| <i>H. plumieri</i> | Ceará, Brazil | 19994 | 80127 | MK238449 |
| <i>H. squamipinna</i> | Ceará, Brazil | 20027 | 80203 | MK238408 |



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