**Table S2.** List and information of 117 siluriform sequences (109 species in 32 families) and two outgroup species with complete mitogenomes providing 13 protein-coding sequences used in this study for phylogenetic and sequence analysis of catfishes of the Pangasiidae and families in the order Siluriformes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Family and Species** | **Genome** **size (bp)** | **GenBank** **no** | **Strain sequence****designation** | **Country** | **References** |
|  | [**Pangasiidae**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?mode=Tree&id=1163410&lvl=3&lin=f&keep=1&srchmode=1&unlock) **(13)/ 7 species** |  |  |  |  |  |
| 1 | *Pangasius bocourti (?)* = *(P*. *hypophthalmus)* | 16,522 | MN842723 | (QingyuanGD) | China | Chen et al. (2020)  |
| 2 | *Pangasius krempfi* | 16,475 | MZ272453 | (VNAG) | Vietnam | This study |
| 3 | *Pangasius larnaudii* | 16,471 | AP012018 | (byMiya-JP) | Thailand | Nakatani et al. (2011) |
| 4 | *Pangasius mekongensis* | 16,462 | MZ272451 | (PNST) | Vietnam | This study |
| 5 | *Pangasius pangasius* | 16,476 | KC572135 | (Lucknow) | India | Mohindra et al. (2015) |
| 6 | *Pangasius pangasius* | 16,472 | KX950698 | (Odisha) | India | GenBank |
| 7 | *Pangasius sanitwongsei* | 16,536 | MN809630 | (LancangRiver) | China | Wei et al. (2020) |
| 8 | *Pangasianodon gigas* | 16,533 | AY762971 | (MekongRr)  | Thailand | Jondeung et al. (2007) |
| 9 | *Pangasianodon hypophthalmus* *(?)* = (*P.* *larnaudii*) | 16,469 | MZ286355 | (BaijinCo-Foshan) | China | Ni et al. (2021) |
| 10 | *Pangasianodon hypophthalmus* | 16,522 | KC846907 | (byZhao) | China | Zhao et al. (2014) |
| 11 | *Pangasianodon hypophthalmus* | 16,523 | MZ272452 | (CTIBT) | Vietnam | This study |
| 12 | *Pangasianodon hypophthalmus* | 16,517 | CM018571 | (SAMN) | Indonesia | GenBank |
| 13 | *Pangasianodon hypophthalmus* | 16,523 | CM010854 | (VN-RIA2-2014) | Vietnam | Kim et al. (2018) |
|  | **Ailiidae (1) / 1 species** |  |  |  |  |  |
| 14 | *Ailia coila*  | 16,565 | MK348534  | (Sylhe) | Bangladesh | Alam et al. (2019) |
|  | **Amblycipitidae (4)/ 4 species** |  |  |  |  |  |
| 15 | *Liobagrus mediadiposalis* | 16.534 | KR075136 | (RakutoR) | South Korea | Park et al. (2017) |
| 16 | *Liobagrus obesus* | 16,531 | DQ321752  | (Gunsan) | South Korea | Kartavtsev et al. (2007) |
| 17 | *Liobagrus reinii* | 16,636 | AP012015 | (SouthJapan) | Japan | Nakatani et al. (2011) |
| 18 | *Liobagrus styani* | 16,515 | KX096605  | (IHB2015111503) | China | Huang et al. (2017) |
|  | **Amphiliidae (1) / 1 species** |  |  |  |  |  |
| 19 | *Zaireichthys* sp. ‘Red’ | 12,985 | MZ930094 | (P-AA-1426) | Zambia | Schedel et al. (2022) |
|  | **Ariidae (6) / 6 species** |  |  |  |  |  |
| 20 | *Arius arius* | 16,711 | KX211965 | (SChinaSea) | China | Wang et al. (2016) |
| 21 | *Arius dispar*  | 16,792 | MH460877  | (PearlR) | China | Cui et al. (2020) |
| 22 | *Bagre panamensis*  | 16,718 | KY930718  | (Sinaloa) | Mexico | Ramirez-Perez et al. (2017) |
| 23 | *Netuma thalassina*  | 16,711 | KU986659  | (Massawa) | Eritrea | GenBank |
| 24 | *Occidentarius platypogon*  | 16,714 | KY930717  | (Sinaloa) | Mexico | Llera-Herrera et al. (2017) |
| 25 | *Sciades seemanni* | 16,830 | AP012003 | (byMiya-JP) | Central America | Nakatani et al. (2011) |
|  | **Aspredinidae (1) / 1 species** |  |  |  |  |  |
| 26 | *Bunocephalus coracoideus* | 16,477 | AP012006 | (Nauta) | Peru | Nakatani et al. (2011) |
|  | **Astroblepidae (1) / 1 species** |  |  |  |  |  |
| 27 | *Astroblepus* sp*. NM-2010* | 16,565 | AP012004  | (byNakatani-JP) | ? | Nakatani et al. (2011) |
|  | **Auchenipteridae (3)/ 3 species** |  |  |  |  |  |
| 28 | *Ageneiosus pardalis* | 16,484 | KM983421  | (Apar-UNAL) | Colombia | Restrepo-Escobar et al. (2016) |
| 29 | *Centromochlus perugiae* | 16,677 | AP012024 | (Anelos) | Ecuador | Nakatani et al. (2011) |
| 30 | *Tetranematichthys quadrifilis* | 16,533 | AP012025 | (Guapore) | Brazil | Nakatani et al. (2011) |
|  | **Auchenoglanididae (1)/ 1 species** |  |  |  |  |  |
| 31 | *Auchenoglanis occidentalis* | 16,535 | AP012005 | (byNakatani-JP) | Senegal | Nakatani et al. (2011) |
|  | **Austroglanididae (3)/ 3 species** |  |  |  |  |  |
| 32 | *Austroglanis barnardi* | 16,561 | MZ930069 | (RB14-A019) | South Africa | Schedel et al. (2022) |
| 33 | *Austroglanis gilli* | 16,561 | MZ930072 | (RB14-A041) | South Africa | Schedel et al. (2022) |
| 34 | *Austroglanis sclateri* | 16,566 | MZ930070 | (IRB-513) | South Africa | Schedel et al. (2022) |
|  | **Bagridae (10)/ 10 species** |  |  |  |  |  |
| 35 | *Hemibagrus guttatus* | 16,528 | KJ458934 | (HongsuiR) | China | Tian et al. (2016) |
| 36 | *Hemibagrus macropterus* | 16,530 | JF834542 | (JialingR) | China | Zeng et a;. (2012) |
| 37 | *Hemibagrus nemurus* | 16,526 | KJ573466 | (Pahang) | Malaysia | Wu et al. (2016) |
| 38 | *Hemibagrus spilopterus* | 16,521 | JQ343983 | (SiemReap) | Cambodia | Htun et al. (2019) |
| 39 | *Hemibagrus wyckioides* | 16,525 | KJ624624 | (byLiu) | Cambodia | Yang et al. (2016) |
| 40 | *Mystus cavasius* | 16,554 | KU870465  | (byDas) | India | GenBank |
| 41 | *Pelteobagrus eupogon* | 16,562 | JQ734476 | (YangtzeR) | China | Wang et al. (2013) |
| 42 | *Pseudobagrus tokiensis* | 16,529 | AB054127 | (CBM-ZF-10620) | Japan | Saitoh et al. (2003) |
| 43 | *Tachysurus brachyrhabdion* | 16,532 | MW712739 | (Jiangkou) | China | Zhang et al., 2022 |
| 44 | *Tachysurus nitidus* | 16,537 | MW451217 | (GeumR) | South Korea | Kwak et al. (2021) |
|  | **Callichthyidae (2)/ 2 species** |  |  |  |  |  |
| 45 | *Corydoras agassizii* | 16,562 | MN641875  | (Changsha) | China | Lv et al. (2020) |
| 46 | *Corydoras trilineatus* | 16,526 | MT478052  | (Changsha) | China | Chen et al. (2020) |
|  | **Cetopsidae (2) / 2 species** |  |  |  |  |  |
| 47 | *Cetopsidium* sp*.* NM-2010  | 16,625 | AP012007  | (ORI-UT1484) | ? | Nakatani et al. (2011) |
| 48 | *Helogenes marmoratus*  | 16,616 | AP012014  | (EssequiboR) | Guyana | Nakatani et al. (2011) |
|  | **Chacidae (1) / 1 species** |  |  |  |  |  |
| 49 | *Chaca bankanensis* | 16,754 | AP012008 | (Bangka) | Indonesia | Nakatani et al. (2011) |
|  | **Clariidae (5) / 5 species** |  |  |  |  |  |
| 50 | *Clarias batrachus* | 16,511 | KC572134 | (Lucknow) | India | Mohindra et al. (2015) |
| 51 | *Clarias dussumieri*  | 16,514 | MG644387  | (Malabar) | India | GenBank |
| 52 | *Clarias fuscus* | 16,518 | KF188424 | (byZhou) | China | Zhou et al. (2015) |
| 53 | *Clarias gariepinus* | 16,505 | KT809508 | (byKovacs-HU) | ? | GenBank |
| 54 | *Clarias macrocephalus* | 16,511 | MT109097  | (CM001) | Vietnam | Duong et al. (2020) |
|  | **Claroteidae (2) / 2 species** |  |  |  |  |  |
| 55 | *Chrysichthys nigrodigitatus*  | 16,514 | MH709123  | (Bamusso) | Cameroon | Kim et al. (2018) |
| 56 | *Chrysichthys* sp.NM-2010  | 16,627 | AP012009  | (byNakatani-JP) | ? | Nakatani et al. (2011) |
|  | **Cranoglanididae (1) / 1 species** |  |  |  |  |  |
| 57 | *Cranoglanis bouderius* | 16,539 | AY898626 | (Guangxi) | China | Peng et al. (2006) |
|  | **Diplomystidae (1) / 1 species** |  |  |  |  |  |
| 58 | *Diplomystes nahuelbutaensis* | 16,506 | AP012011  | (Cautin) | Chile | Nakatani et al. (2011) |
|  | **Doradidae (2) / 2 species** |  |  |  |  |  |
| 59 | *Amblydoras gonzalezi*  | 16,505 | AP012001  | (PuntaVista) | Venezuela | Nakatani et al. (2011) |
| 60 | *Platydoras armatulus*  | 16,470 | KM576101  | (RioParana) | South America | Liu et al. (2016) |
|  | **Heteropneustidae (1) / 1 species** |  |  |  |  |  |
| 61 | *Heteropneustes fossilis* | 16,489 | AP012013 | (GangaR) | India | Behera et al. (2016) |
|  | **Horabagridae (2) / 2 species** |  |  |  |  |  |
| 62 | *Horabagrus brachysoma* | 16,567 | KU870467  | (byDas) | India | GenBank |
| 63 | *Horabagrus nigricollaris* | 16,561 | MG986722 | (ChalakudyR) | India | GenBank |
|  | [**Ictaluridae**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?mode=Tree&id=1163410&lvl=3&lin=f&keep=1&srchmode=1&unlock) **(9) / 7 species** |  |  |  |  |  |
| 64 | *Ameiurus catus* | 16,510 | MH324425 | (NEFC-F16-261) | United States | Schroeter et al. (2020) |
| 65 | *Ameiurus nebulosus* | 16,513 | MF621733 | (NEFC-F16-113) | United States | Schroeter et al. (2020) |
| 66 | *Ictalurus furcatus* | 16,499 | KM576102 | (WabashR) | United States | GenBank |
| 67 | *Ictalurus pricei* | 16,503 | KJ496298 | (TNHC-21704-10) | Mexico | GenBank |
| 68 | *Ictalurus punctatus* | 16,498 | MF621722 | (NEFC-F16-262) | United States | Schroeter et al. (2020) |
| 69 | *Ictalurus punctatus* | 16,497 | MF621721 | (NEFC-F16-568) | United States | Schroeter et al. (2020) |
| 70 | *Ictalurus punctatus* | 16,497 | AF482987 | (Norris) | United States | Waldbieser et al. (2003) |
| 71 | *Noturus taylori* | 16,492 | KP013089 | (CaddoR) | United States | GenBank |
| 72 | *Pylodictis olivaris* | 16,509 | MF621728 | (NEFC-F16-277) | United States | Schroeter et al. (2020) |
|  | **Loricariidae (9)/ 9 species** |  |  |  |  |  |
| 73 | *Ancistrus multispinis*  | 16,177 | KT239006  | (TP003) | Brazil | Moreira et al. (2017) |
| 74 | *Ancistrus temminckii*  | 16,657 | MT528234  | (Surin) | (South America) | Meng et al. (2021) |
| 75 | *Hypostomus ancistroides* | 16.826 | MT066232 | (TieteRConchas) | Brazil | Rocha-Reis et al. (2020) |
| 76 | *Hypostomus francisci*  | 16,541 | MK026008  | (AbaeteR) | Brazil | Pereira et al. (2019) |
| 77 | *Loricariichthys castaneus*  | 15,671 | KT239015  | (MNRJ41545) | Brazil | Moreira et al. (2017) |
| 78 | *Loricariichthys platymetopon*  | 16,262 | KT239018  | (MNRJ43627) | Brazil | Moreira et al. (2017) |
| 79 | *Pterygoplichthys anisitsi*  | 16,538 | KT239003  | (TP-SJRP1) | Brazil | Parente et al. (2017) |
| 80 | *Pterygoplichthys disjunctivus*  | 16,521 | AP012021  | (MadeiraR) | Brazil | Nakatani et al. (2011) |
| 81 | *Rineloricaria* sp.  | 16,217 | KX087183  | (MNRJ42544) | Brazil | Moreira et al. (2017) |
|  | **Malapteruridae (1) / 1 species** |  |  |  |  |  |
| 82 | *Malapterurus electricus* | 16,504 | AP012016  | (NileRiver) | Africa | Nakatani et al. (2011) |
|  | **Mochokidae (4) /4 species** |  |  |  |  |  |
| 83 | *Chiloglanis macropterus* | 12,936 | MZ930097 | (DRC-2012-3636) | Zambia | Schedel et al. (2022) |
| 84 | *Chiloglanis* sp-'Nigeria' | 16,107 | MZ930075 | (Pop-706) | Nigeria | Schedel et al. (2022) |
| 85 | *Synodontis punu* | 12,968 | MZ930091 | (GAB17\_1722)  | Gabon | Schedel et al. (2022) |
| 86 | *Synodontis schoutedeni* | 16,540 | AP012023  | (Kunungu) | Congo | Nakatani et al. (2011) |
|  | **Pimelodidae (5) / 5 species** |  |  |  |  |  |
| 87 | *Pimelodus maculatus* | 16,561 | KX371345 | (SaoFrancisco) | Brazil | Resende et al. (2016) |
| 88 | *Pimelodus pictus* | 16,575 | AP012019 | (Hyavary) | Peru/Brazil | Nakatani et al. (2011) |
| 89 | *Pseudoplatystoma reticulatum* | 16,576 | KU291530 | (ParaguayR) | Brazil | Villela et al. (2017) |
| 90 | *Sorubim cuspicaudus* | 16,544 | KP090205 | (CaucaRiver) | Colombia | Restrepo-Escobar et al. (2016) |
| 91 | *Sorubim lima*  | 16,539 | MN242829 | (gzu20170831) | (South America)? | Ren, Ma (2019) |
|  | **Plotosidae (2) / 2 species** |  |  |  |  |  |
| 92 | *Plotosus japonicus*  | 16,559 | KR270437  | (NabetaCove) | Japan | Liu, Zhang (2016) |
| 93 | *Plotosus lineatus*  | 16,480 | KU213641  | (Sanya) | China | Ruan et al. (2016) |
|  | **Ritidae (1) / 1 species** |  |  |  |  |  |
| 94 | *Rita rita* | 16,449 | KF670723 | (IndusR) | Pakistan | Punhal et al. (2014) |
|  | **Schilbeidae (2) / 2 species** |  |  |  |  |  |
| 95 | *Pareutropius debauwi*  | 16,521 | AP012017  | (Uerre) | Congo | Nakatani et al. (2011) |
| 96 | *Schilbe grenfelli* | 12,947 | MZ930119 | (LubudiR) | Congo | Schedel et al. (2022) |
|  | **Siluridae (11) / 11 species** |  |  |  |  |  |
| 97 | *Kryptopterus bicirrhis* | 16,662 | KY569440 | (Java) | Indonesia | GenBank |
| 98 | *Kryptopterus vitreolus* | 16,662 | KY710750 | (KhaoSaming) | Thailand | GenBank |
| 99 | *Ompok bimaculatus* | 16,482 | KY887474  | (OB-WM-TR01) | India | Barman et al. (2017) |
| 100 | *Pterocryptis cochinchinesis* | 16,501 | KR028479 | (Cochinchine) | Vietnam | GenBank |
| 101 | *Silurus asotus* | 16,521 | AP012022 | (byNakatani-JP) | ? | Nakatani et al. (2011) |
| 102 | Silurus biwaensis | 16,543 | LC574781 | (LakeBiwa)-JP | Japan | Kishimoto et al. (2021) |
| 103 | *Silurus glanis* | 16,526 | AM398435 | (KastoriaLake) | Greece | Vittas et al. (2011) |
| 104 | *Silurus lanzhouensis* | 16,524 | JF895472 | (Shandong) | China | Lian et al. (2015) |
| 105 | *Silurus meridionalis* | 16,526 | JX087350 | (WujiangR) | China | Wang et al. (2015) |
| 106 | *Silurus microdorsalis* | 16,524 | KT350610 | (WangpicheonR) | South Korea | Park et al. (2020) |
| 107 | *Silurus soldatovi* | 16,519 | MN171302 | (NakdongR) | South Korea | Alam et al. (2015) |
|  | **Sisoridae (9) / 9 species** |  |  |  |  |  |
| 108 | *Bagarius yarrelli* | 16,524 | KT983411 | (HongheR) | China | Du et al. (2016) |
| 109 | *Glaridoglanis andersonii* | 16,532 | JQ026254  | (byZou) | China | GenBank |
| 110 | *Oreoglanis immaculatus*  | 16,576 | KP872690  | (Tibetan) | China | Ma et al. (2015) |
| 111 | *Oreoglanis jingdongensis*  | 16,569 | KP872691  | (Tibetan) | China | Ma et al. (2015) |
| 112 | *Pareuchiloglanis gongshanensis* | 16,588 | KU160626 | (NujiangR) | China | Li et al. (2016) |
| 113 | *Pareuchiloglanis myzostoma*  | 16,584 | MK617319  | (NujiangR) | China | Cui et al. (2019) |
| 114 | *Pareuchiloglanis sinensis*  | 16,593 | KJ637323  | (byShao) | China | Shao et al. (2016) |
| 115 | *Pseudecheneis immaculata*  | 16,432 | MN082047  | (LantsangR) | China | Zhu et al. (2019) |
| 116 | *Pseudecheneis sulcata*  | 16,474 | JQ026259  | (YarlungR) | China | Ma et al. (2019) |
|  | **Trichomycteridae (1) / 1 species** |  |  |  |  |  |
| 117 | *Trichomycterus areolatus* | 16,586 | AP012026  | (SanJago) | Chile | Nakatani et al. (2011) |
|  | **Outgroup: Gonorynchiformes** **(2)** |  |  |  |  |  |
| 118 | *Chanos chanos* | 16,231 | AB054133 | (Slawesi) | Indonesia | Saitoh et al. (2003) |
| 119 | *Gonorynchus greyi* | 16,536 | AB054134 | (AM-I33768001) | Australia | Saitoh et al. (2003) |

Note*:*Numbers in brackets indicate the numbers of strain or species (numbers are given after the dash) sequences used in each family. Some species are represented by more than one mitogenome. The strain designation is given in brackets, either from the geographical location of the collection, the voucher abbreviation, or by the author who reprobed. The full name of the country or regions of the sample collection is given if available; otherwise, a question mark (?) indicates unknown. Some information related to the designation of strain sequences and country of collection is referenced from theEschmeyer's Catalog of Fishes (Fricke R. (ed.) 2023) compiled by Schedel et al. (2022).

**Reading references for Table S2**

Alam MJ, Andriyono S, Lee SR, Hossain MAR, Eunus ATM, Hassan MT, Kim HW. 2019. Characterization of the complete mitochondrial genome of Gangetic ailia, *Ailia coila* (Siluriformes: Ailiidae). Mitochondrial DNA B Resour **4(2):**2258–2259. [doi:10.1080/23802359.2019.1627942](https://doi.org/10.1080/23802359.2019.1627942).

Alam MJ, Khalil MAS, Kim KS, Andriyono S, Choi CG, Kim HW. 2019. Characterization of the complete mitochondrial genome of *Silurus soldatovi* in Korean river. Mitochondrial DNA B Resour **4(2):**3886–3887. [doi:10.1080/23802359.2019.1687347](https://doi.org/10.1080/23802359.2019.1687347).

Barman AS, Singh M, Pandey PK. 2017. Complete mitochondrial genome of near threatened butter Catfish *Ompok bimaculatus* (Siluriformes: Siluridae). Mitochondrial DNA B Resour **2(1):**313–314. [doi:10.1080/23802359.2017.1334520](https://doi.org/10.1080/23802359.2017.1334520).

Behera BK, Baisvar VS, Kumari K, Rout AK, Pakrashi S, Paria P, Das A, Rao AR, Rai A. 2016. The complete mitochondrial genome of the Asian stinging catfish*, Heteropneustes fossilis* (Siluriformes, Heteropneustidae) and its comparison with other related fish species. Mitochondrial DNA B Resour **1(1):**804–805. [doi:10.1080/23802359.2016.1219628](https://doi.org/10.1080/23802359.2016.1219628).

Chen L, Xu B, Xiao T, Liu Q. 2020. Characterization and phylogenetic analysis of *Corydoras trilineatus* mitochondrial genome. Mitochondrial DNA B Resour **5(3):**3017–3018. [doi:10.1080/23802359.2020.1797551](https://doi.org/10.1080/23802359.2020.1797551)

Cui L, Dong Y, Cao R, Zhou X, Lu S. 2020. Characterization of the Complete Mitochondrial Genome of *Arius dispar* (Siluriformes: Ariidae) and Phylogenetic Analysis Among Sea Catfishes. J Ocean Univ China **19(5):**1198–1206. [doi:10.1007/s11802-020-4409-1](https://doi.org/10.1007/s11802-020-4409-1).

Cui L, Gao H, Miao X, Li M, Li G, Xu G, Wu J, Hu W, Lu S. 2019. The complete mitochondrial genome of *Pareuchiloglanis myzostoma* (Teleostei, Siluriformes). Mitochondrial DNA B Resour **4(2):**3626–3627. [doi:10.1080/23802359.2019.1676173](https://doi.org/10.1080/23802359.2019.1676173).

Du M, Zhou CJ, Niu BZ, Liu YH, Li N, Ai JL, Xu GL 2016. The complete mitochondrial genome of *Bagarius yarrelli* from Honghe river. IOP Conf Ser: Earth Environ Sci**41:**012031 [doi:10.1088/1755-1315/41/1/012031](https://doi.org/10.1088/1755-1315/41/1/012031).

Duong TY, Tan MH, Lee YP, Croft L, Austin CM. 2020. Dataset for genome sequencing and de novo assembly of the Vietnamese bighead catfish Clarias macrocephalus Günther, 1864). Data Brief **31:**105861. [doi:10.1016/j.dib.2020.105861](https://doi.org/10.1016/j.dib.2020.105861).

Fricke R (ed). 2023.  Eschmeyer's catalog of fishes: references. (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>). accessed 12 June 2023.

Htun KK, Pan H, Peng Z. 2019. The complete mitochondrial genome of Hemibagrus spilopterus (Teleostei: Siluriformes), Mitochondrial DNA Part B **4(1):**566*–*1567, [doi:10.1080/23802359.2019.1601526](https://doi.org/10.1080/23802359.2019.1601526).

Huang JY, Hu S, Bai X, Zhang E. 2017. Complete mitochondrial genome of *Liobagrus styani* (Teleostei: Amblycipitidae). Mitochondrial DNA B Resour **2(1):**15–16. [doi:10.1080/23802359.2016.1275841](https://doi.org/10.1080/23802359.2016.1275841).

Jondeung A, Sangthong P, Zardoya R. 2007. The complete mitochondrial DNA sequence of the Mekong giant catfish (*Pangasianodon gigas*), and the phylogenetic relationships among Siluriformes. Gene **387(1-2):**49–57. [doi:10.1016/j.gene.2006.08.001](https://doi.org/10.1016/j.gene.2006.08.001) .

Kartavtsev YP, Jung SO, Lee YM, Byeon HK, Lee JS. 2007. Complete mitochondrial genome of the bullhead torrent catfish, *Liobagrus obesus* (Siluriformes, Amblycipididae): Genome description and phylogenetic considerations inferred from the Cytb and 16S rRNA genes. Gene **396(1):13**–27. [doi:10.1016/j.gene.2007.01.027](https://doi.org/10.1016/j.gene.2007.01.027).

Kim NK, Zealous Gietbong F, Andriyono S, Kim AR, Kim HW. 2018. The complete mitogenome of Bagrid catfish *Chrysichthys nigrodigitatus* (Siluriformes: Claroteidae). Mitochondrial DNA B Resour **3(2):**1239–1240. [doi:10.1080/23802359.2018.1532341](https://doi.org/10.1080/23802359.2018.1532341).

Kim OTP, Nguyen PT, Shoguchi E, Hisata K, Vo TTB, Inoue J, Shinzato C, Le BTN, Nishitsuji K, Kanda M, Nguyen VH, Nong HV, Satoh N. 2018. A draft genome of the striped catfish, *Pangasianodon hypophthalmus*, for comparative analysis of genes relevant to development and a resource for aquaculture improvement. BMC Genomics **19(1):**733. [doi:10.1186/s12864-018-5079-x](https://doi.org/10.1186/s12864-018-5079-x).

Kishimoto Y, Okuyama H, Takahashi J. 2021. Complete mitochondrial DNA sequence of the Japanese endemic catfish *Silurus biwaensis* (Siluriformes: Siluridae) from Lake Biwa. Mitochondrial DNA B Resour **6(9):** 2482–2483. [doi:10.1080/23802359.2021.1920487](https://doi.org/10.1080/23802359.2021.1920487).

Kwak YH, Kim KY, Song HY, Song MY. 2021. The complete mitochondrial genome of Tachysurus nitidus (Siluriformes: Bagridae) from the Geum river in Korea. Mitochondrial DNA B Resour **6(4):**1330*–*1331. [doi:10.1080/23802359.2021.1906181](https://doi.org/10.1080/23802359.2021.1906181).

Li B, Tian Z, Qin Y, Hao M, Zhang J. 2016. The complete mitochondrial genome of *Pareuchiloglanis gongshanensis* (Siluriformes, Sisoridae, *Pareuchiloglanis*): genome characterization and phylogenetic analysis. Mitochondrial DNA B Resour **1(1):**58–59. [doi:10.1080/23802359.2015.1137822](https://doi.org/10.1080/23802359.2015.1137822).

Lian ZQ, Wu XD, Xiao W, Sai QY, Gun SB. 2015. Complete sequence andcharacterization of the Silurus lanzhouensis (Siluriformes: Siluridae)mitochondrial genome. Mitochondrial DNA **27:**2483–2484. [doi:10.3109/19401736.2015.1033709](https://doi.org/10.3109/19401736.2015.1033709).

Liu S, Yao J, Zhang J, Liu Z. 2016. Next generation sequencing yields the complete mitochondrial genome of the striped raphael catfish, *Platydoras armatulus* (Siluriformes: Doradidae). Mitochondrial DNA A DNA Mapp Seq Anal **27(3):**1963–1964. [doi:10.3109/19401736.2014.971308](https://doi.org/10.3109/19401736.2014.971308).

Liu YH, Zhang MH. 2016. The complete mitochondrial genome sequence of *Plotosus japonicus* (Siluriformes: Plotosidae) and phylogenetic studies of Siluriformes. Mitochondrial DNA A DNA Mapp Seq Anal **27(4):**2791–2792. [doi:10.3109/19401736.2015.1053069](https://doi.org/10.3109/19401736.2015.1053069).

Llera-Herrera, Llera-Herrera R, Ramírez-Pérez JS, Saavedra-Sotelo NC. 2017. Complete mitochondrial genome of Cominate sea catfish *Occidentarius platypogon* (Siluriformes: Ariidae). Mitochondrial DNA B Resour **2(1):**337–338. [doi:10.1080/23802359.2017.1334516](https://doi.org/10.1080/23802359.2017.1334516).

Lv L, Su H, Xu B, Liu Q, Xiao T. 2020. Complete mitochondrail genome of *Corydoras agassizii*. Mitochondrial DNA B Resour **5(1):**727–728. doi: [doi:10.1080/23802359.2020.1715277](https://doi.org/10.1080/23802359.2020.1715277).

Ma Q, Li L, Du Y, Jin H, Ma B. 2019. Complete mitochondrial genome sequence of *Pseudecheneis sulcata* in the Yarlung Zangbo River, Tibet. Mitochondrial DNA B Resour **4(2):**2177–2178. [doi:10.1080/23802359.2019.1623727](https://doi.org/10.1080/23802359.2019.1623727).

Ma X, Kang J, Chen W, Zhou C, He S. 2015. Biogeographic history and high-elevation adaptations inferred from the mitochondrial genome of Glyptosternoid fishes (Sisoridae, Siluriformes) from the southeastern Tibetan Plateau. BMC Evol Biol **15:**233. [doi:10.1186/s12862-015-0516-9](https://doi.org/10.1186/s12862-015-0516-9).

Meng F, Yin X, Zhang T, Zhao C, Xue X, Xia X, Zhu X, Duan Z, Liu B, Liu Y. 2021. The first determination and analysis of the complete mitochondrial genome of *Ancistrus temminckii* (Siluriformes: Loricariidae). Mitochondrial DNA B Resour **6(5):**1583–1585. [doi:10.1080/23802359.2020.1866446](https://doi.org/10.1080/23802359.2020.1866446).

Mohindra V, Singh RK, Kumar R, Sah RS, Lal KK. 2015. Complete mitochondrial genome sequences of two endangered Indian catfish species, *Clarias batrachus* and *Pangasius pangasius*.Mitochondrial DNA **26(5):**678–679. [doi:10.3109/19401736.2013.840604](https://doi.org/10.3109/19401736.2013.840604).

Moreira DA, Buckup PA, Furtado C, Val AL, Schama R, Parente TE. 2017. Reducing the information gap on Loricarioidei (Siluriformes) mitochondrial genomics. BMC Genomics **18(1):**345. [doi:10.1186/s12864-017-3709-3](https://doi.org/10.1186/s12864-017-3709-3).

Nakatani M, Miya M, Mabuchi K, Saitoh K, Nishida M. 2011. Evolutionary history of Otophysi (Teleostei), a major clade of the modern freshwater fishes: Pangaean origin and Mesozoic radiation. BMC Evol Biol **11(1):**177. [doi:10.1186/1471-2148-11-177](https://doi.org/10.1186/1471-2148-11-177).

Ni W, Liu Y, Chen H, Yu L, Li W, Wang Y, Hong X, Chen C, Yuan J, Liu F, Liu X, Zhu X. 2021. The complete mitochondrial genome of Pangasianodonhypophthalmus (Sauvage 1878) (Siluriformes, Pangasiidae). Mitochondrial DNA Part B **6(12):**3391*–*3392, [doi:10.1080/23802359.2021.1997107](https://doi.org/10.1080/23802359.2021.1997107).

Parente TE, Moreira DA, Magalhães MGP, de Andrade PCC, Furtado C, Haas BJ, Stegeman JJ, Hahn ME. 2017. The liver transcriptome of suckermouth armoured catfish (*Pterygoplichthys anisitsi*, Loricariidae): Identification of expansions in defensome gene families. Mar Pollut Bull **115(1-2):**352–361. [doi:10.1016/j.marpolbul.2016.12.012](https://doi.org/10.1016/j.marpolbul.2016.12.012).

Park CE, Kim MC, Kim KH, Park HC, Shin JH. 2017. The complete mitochondrial genome sequence of *Liobagrus mediadiposalis* (Teleostei, Siluriformes, Amblycipitidae). Mitochondrial DNA B Resour **2(2):**879–880. [doi:10.1080/23802359.2017.1407702](https://doi.org/10.1080/23802359.2017.1407702).

Park CE, Park YJ, Kim MC, Park MK, Jung Y, Choi SD, Jo Y, Kang GU, Kim MJ, Li QX, Yoza BA, Kim KH, Park HC, Shin JH. 2019. The first complete mitochondrial genome sequence of the Korean endemic catfish *Silurus microdorsalis* (Actinopteri, Siluriformes, Siluridae). Mitochondrial DNA B Resour **5(1):**131–132. [doi:10.1080/23802359.2019.1698336](https://doi.org/10.1080/23802359.2019.1698336).

Peng Z, Wang J, He S. 2006. The complete mitochondrial genome of the helmet catfish *Cranoglanis bouderius* (Siluriformes: Cranoglanididae) and the phylogeny of otophysan fishes. Gene **376(2):**290–297. [doi:10.1016/j.gene.2006.04.014](https://doi.org/10.1016/j.gene.2006.04.014).

Punhal L, Laghari MY, Xu P, Zhao Z, Jiang L, Narejo NT, Deng Y, Sun X, Zhang Y. 2015. Complete mitochondrial genome of the Freshwater Catfish *Rita rita* (Siluriformes, Bagridae). Mitochondrial DNA **26(6):**817–818. [doi:10.3109/19401736.2013.855908](https://doi.org/10.3109/19401736.2013.855908).

Ramírez-Pérez JS, Saavedra-Sotelo NC, Llera-Herrera R, Abadía-Chanona QY. 2017. Complete mitochondrial genome of the Chihuil sea catfish *Bagre panamensis* (Siluriformes: Ariidae). Mitochondrial DNA B Resour **2(1):**341–343. [doi:10.1080/23802359.2017.1334519](https://doi.org/10.1080/23802359.2017.1334519).

Ren F, Ma X. 2019. The complete mitochondrial genome of *Sorubim lima* (Siluriformes, Pimelodidae). Mitochondrial DNA B Resour **4(2):**3650–3651. [doi:10.1080/23802359.2019.1678420](https://doi.org/10.1080/23802359.2019.1678420).

Resende LC, do Carmo AO, Núñez-Rodriguez D, Pimentel JDSM, Bedore AG, Leal HG, Kalapothakis E. 2016. *Pimelodus maculatus* (Siluriformes, Pimelodidae): complete mtDNA sequence of an economically important fish from the São Francisco river basin. Mitochondrial DNA B Resour **1(1):**806–808. [doi:10.1080/23802359.2016.1219646](https://doi.org/10.1080/23802359.2016.1219646).

Restrepo-Escobar N, Alzate JF, Márquez EJ. 2016. Mitochondrial genome of the Trans-Andean shovelnose catfish Sorubimcuspicaudus (Siluriformes, Pimelodidae). Mitochondrial DNA A DNA Mapp Seq Anal **27(6):**3964–3965. [doi:10.3109/19401736.2014.989506](https://doi.org/10.3109/19401736.2014.989506).

Restrepo-Escobar N, Alzate JF, Márquez EJ. 2016. Mitochondrial genome of the Neotropical catfish *Ageneiosus pardalis*, Lütken 1874 (Siluriformes, Auchenipteridae). Mitochondrial DNA A DNA Mapp Seq Anal **27(3):**2176–2177. [doi:10.3109/19401736.2014.982613](https://doi.org/10.3109/19401736.2014.982613).

Rocha-Reis DA, Pasa R, Menegidio FB, Heslop-Harrison JS, Schwarzacher T and Kavalco KF. 2020. The Complete Mitochondrial Genome of Two Armored Catfish Populations of the Genus Hypostomus (Siluriformes, Loricariidae, Hypostominae). Front Ecol Evol **8:**579965. [doi:10.3389/fevo.2020.579965](https://doi.org/10.3389/fevo.2020.579965).

Ruan Z, Yu H, Li J, Ma L, Wang Z, Lei Y, Shi Q. 2016. Complete mitochondrial genome of stripped eel catfish *Plotosus lineatus*. Mitochondrial DNA B Resour **1(1):**130–131. [doi:10.1080/23802359.2016.1144093](https://doi.org/10.1080/23802359.2016.1144093).

Saitoh K, Miya M, Inoue JG, Ishiguro NB, Nishida M. 2003. Mitochondrial genomics of ostariophysan fishes: perspectives on phylogeny and biogeography. J Mol Evol **56(4):**464–472. [doi:10.1007/s00239-002-2417-y](https://doi.org/10.1007/s00239-002-2417-y).

Schedel FDB, Chakona A, Sidlauskas BL, Popoola MO, Usimesa Wingi N, Neumann D, Vreven EJWMN, Schliewen UK. 2022. Newphylogenetic insights into the African catfish families Mochokidae and Austroglanididae. J Fish Biol **100(5):**1171–1186. [doi:10.1111/jfb.15014](https://doi.org/10.1111/jfb.15014).

Schroeter JC, Maloy AP, Rees CB, Bartron ML 2020.Fish mitochondrial genome sequencing: expanding genetic resources to support species detection and biodiversity monitoring using environmental DNA*.* Conserv Genet Resourc **12:**433–446. [doi:10.1007/s12686-019-01111-0](https://doi.org/10.1007/s12686-019-01111-0)

Shao K, Yan SX, Zhu B, Xu N, Li WT, Xiong MH. 2016. Complete mitochondrial genome of *Pareuchiloglanis sinensis* (Siluriformes: Sisoridae). Mitochondrial DNA A DNA Mapp Seq Anal **27(1):**713–714. [doi:10.3109/19401736.2014.913155](https://doi.org/10.3109/19401736.2014.913155).

Tian H, Que Y, Zhao N, Chen F, Zhu B, Huang D, Chang J, Liao X. 2016. The complete mitochondrial genome of the spotted longbarbel catfish, *Hemibagrus guttatus* (Siluriformes, Bagridae). Mitochondrial DNA A DNA Mapp Seq Anal **27(1):**467–468. [doi:10.3109/19401736.2014.900670](https://doi.org/10.3109/19401736.2014.900670).

Villela LC, Alves AL, Varela ES, Yamagishi ME, Giachetto PF, da Silva NM, Ponzetto JM, Paiva SR, Caetano AR. 2017. Complete mitochondrial genome from South American catfish *Pseudoplatystoma reticulatum* (Eigenmann & Eigenmann) and its impact in Siluriformes phylogenetic tree. Genetica **145(1):**51–66. [doi:10.1007/s10709-016-9945-7](https://doi.org/10.1007/s10709-016-9945-7)

Vittas S, Drosopoulou E, Kappas I, Pantzartzi CN, Scouras ZG. 2011. The mitochondrial genome of the European catfishSilurus glanis (Siluriformes, Siluridae). J Biol Res (Thessalon) **15:**25–35.

Waldbieser GC, Bilodeau AL, Nonneman DJ. 2003. Complete sequence and characterization of the channel catfish mitochondrial genome. DNA Seq **14(4):**265–277. [doi:10.1080/1042517031000149057](https://doi.org/10.1080/1042517031000149057).

 Wang P, Ou Y, Wen J, Li J. 2016. The completemitochondrial genome of Arius arius (Siluriformes: Ariidae), Mitochondrial DNA Part B **1(1):**551*–*552. [doi:10.1080/23802359.2016.1198999](https://doi.org/10.1080/23802359.2016.1198999).

Wang QR, Xu C, Xu CR, Wang RJ. 2015. Complete mitochondrial genomeof the Southern catfish (Silurus meridionalis Chen) and Chinese catfish(S. asotus Linnaeus): structure, phylogeny, and intraspecific variation. Genet Mol Res **14:**18198–18209. [doi:10.4238/2015.December.23.7](https://doi.org/10.4238/2015.December.23.7).

Wang XY, Cao L, Liang HW, Li Z, Zou GW. 2013. Mitochondrial genome of the Shorthead catfish (*Pelteobagrus eupogon*). Mitochondrial DNA **24(1):**1–2. [doi:10.3109/19401736.2012.710222](https://doi.org/10.3109/19401736.2012.710222).

Wei L, Ye X, Lv Y, Teng Z, Gan B, Zou H, Mo F, Zhang S. 2020. Complete mitochondrial genome and phylogenetic position of *Pangasius sanitwongsei* (Siluriformes: Pangasiidae). Mitochondrial DNA B: Res **5(1):**945–946. [doi:10.1080/23802359.2020.1719915](https://doi.org/10.1080/23802359.2020.1719915).

Wu YP, He QS, Xie JL, Guo XF, Li HY. 2016. The complete mitochondrial genome sequence of *Hemibagrus nemurus* (Siluriformes: Bagridae). Mitochondrial DNA A DNA Mapp Seq Anal **27(3):**1829–1830. [doi:10.3109/19401736.2014.971245](https://doi.org/10.3109/19401736.2014.971245).

Yang H, Zhao H, Sun J, Zhang Y, Yang Z, Liu L. 2016. The complete mitochondrial genome of the *Hemibagrus wyckioides* (Siluriformes, Bagridae). Mitochondrial DNA A DNA Mapp Seq Anal **27(1):**766–768. [doi:10.3109/19401736.2014.915531](https://doi.org/10.3109/19401736.2014.915531).

Zeng Q, Ye H, Peng Z, Wang Z. 2012. Mitochondrial genome of *Hemibagrus macropterus* (Teleostei, Siluriformes). Mitochondrial DNA **23(5):**355–337. [doi:10.3109/19401736.2012.690755](https://doi.org/10.3109/19401736.2012.690755).

Zhang R, Deng L, Lv X, Tang Q. (2022). Complete mitochondrial genomes of two catfishes (Siluriformes, Bagridae) and their phylogenetic implications. Zookeys **1115**:103–116. [doi:10.3897/zookeys.1115.85249](https://doi.org/10.3897/zookeys.1115.85249).

Zhao H, Kong X, Zhou C. 2014. The mitogenome of *Pangasius sutchi* (Teleostei, Siluriformes: Pangasiidae). Mitochondrial DNA **25(5):**342–344. [doi:10.3109/19401736.2013.800492](https://doi.org/10.3109/19401736.2013.800492).

Zhou C, Wang X, Guan L, He S. 2015. The complete mitochondrial genome of *Clarias fuscus* (Teleostei, Siluriformes: Clariidae). Mitochondrial DNA **26(2):**270–271. [doi:10.3109/19401736.2013.823177](https://doi.org/10.3109/19401736.2013.823177).

Zhu T, He Y, Yang D. 2019. The complete mitochondrial genome of the *Pseudecheneis immaculatus* (Siluriformes：Sisoridae). Mitochondrial DNA B Resour **4(2):**3120–3121. [doi:10.1080/23802359.2019.1667281](https://doi.org/10.1080/23802359.2019.1667281).