**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).

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