DAFTAR PUSTAKA

Akihito, P., Sakamoto, K., Ikeda, Y., & Iwata, A. 2000. Gobioidei. Pp.1139-1310. In Nakabo T. (ed.), Fishes of Japan with pictorial keys to species (2nd edit). Tokyo. Tokai University Press.

Akihito, P., Meguro, K., & Sakamoto, K. 2003. A new species of gobiid fish, *Cristatogobius rubripectoralis* from Australia. Ichthyology Research, 50(1): 117-122.

Barber, P. H., Erdmann, M. V., & Palumbi, S. R. 2006. Comparative phylogeography of three codistributed stomatopods: origins and timing of regional lineage diversification in the coral triangle. Evolution, 60(9): 18-25. DOI: https://doi.org/10.1554/05-596.1

Bell, K. N. I. 1999. An overview of goby-fry fisheries. Naga Manila, 2(1): 30-36.

Bell, K. N. I. 2007. Opportunities in stream drift : methods , goby larval types , temporal cycles, in situ mortality estimation, and conservation implications. Biology of Hawaiian Streams and Estuaries, 61(1): 35–61.

Bielsa, S., Francisco, P., Mastorillo, S., Parent, J. P. 2003. Seasonal changes of peryphitic nutritive quality for *Sicyopterus lagocephalus* (Pallas, 1770) (Gobiidae) in three streams of Reunion Island. Annals de Limnologie-International Journal of Limnology, 39(2): 115-127.

Busra, B. 2020. Paqduang: mistisme dan eksotisme penangkapan ikan seribu di antara sejarah peradaban masyarakat nelayan Pesisir Sampaga Kabupaten Mamuju Sulawesi Barat. Kanaka Media. Jakarta. 95 hal.

Carpenter, K. E., & Niem, V. H. 2001. The living marine resources of the Western Central Pacific. Volume 6. Bony fishes part 4 (Labridae to Latimeriidae), estuarine crocodiles, sea turtles, sea snakes and marine mammals. FAO species identification guide for fishery purposes, 6(1): 3381–4218.

Corbarieu, A. 2008. Caractérisation de la vie larvaire et des premiers stades de développement en eau douce chez *Awaous commersoni*, *Eleotris fusca* et *Eleotris* mauritiana, poissons amphidromes de La Réunion. Disertasi. Poly-technique Montpellier. France.

Dayrat, B. 2005. Towards integrative taxonomy. Biological Journal of the Linnean Society, 85(3): 407-415. DOI: https://doi.org/10.1111/j.1095-8312.2005.00503.x

Delacroix, P. 1987. Etude Des Bichiques, Juveniles De *Sicyopterus Lagocephalus* (Pallas), Poisson Gobiidae, Migrateur Des Rivieres De La Reunion (Ocean Indien): Exploitation, Repartition, Biologie De La Reproduction Et De La Croissance. Disertasi. University of La Reunion.

Delacroix P., & Champeau A. (1992). Ponte en eau douce de Sicyopterus lagocephalus (Pallas) poisson Gobiidae amphibionte des revieres de La

Reunion. Hydroecologie Appliquee, 4(1): 49-63.

Devi, L. I. 2012. Identifikasi Postlarva Famili Gobiidae Dari Muara Sungai Kedurang, Bengkulu Melalui DNA Barcode. Skripsi. Institut Pertanian Bogor. Bogor

Ebner, B. C., Thuesen, P. A., Larson, H. K. & Keith, P. 2011. A review of distribution, field observations and precautionary conservation requirements for sicydiine gobies in Australia. Cybium, 35(4): 397–414. DOI: 10.26028/cybium/2011-354-013

Galindo, C., Sanchez, G. A., Beltrán-LEÓN, B. S. & Zapata, L. 2011. A goby-fry fishery in the northern Colombian Pacific Ocean. Cybium, 35(4): 391–395. DOI: https://doi.org/10.26028/cybium/2011-354-012

Gani, A., Nurjirana, Bakri, A. A., Adriany, D. T., Wuniarto, E., Khartiono, L. D., Satria, D. H., Hasan, V., Herjayanto, M., Burhanuddin, A. I., Moore, A. M., & Kobayashi, H. 2021. First record of *Stiphodon annieae* Keith & Hadiaty, 2015 (Teleostei, oxudercidae) from Sulawesi Island, Indonesia. Check List, 17(1): 261-267. DOI: https://doi.org/10.15560/17.1.261

Geller, J., Meyer, C., Parker, M. & Hawk, H. 2013. Redesign of PCR primers for mitochondrial cytochrome c oxidase subunit I for marine invertebrates and application in all taxa biotic surveys. Molecular Ecology Resources, 13(5): 851-861. DOI: https://doi.org/10.1111/1755-0998.12138

Hadiaty, R. K. & Sauri, S. 2017. Iktiofauna air tawar Pulau Enggano , Indonesia. Jurnal Iktiologi Indonesia, 17(3): 273–287.

Hebert, P. D. N., Cywinska, A., Ball, S. L. & DeWaard, J. R. 2003. Biological identifications through DNA barcodes. Proceedings of the Royal Society B: Biological Sciences, 270(1512), 313-321. DOI: https://doi.org/10.1098/rspb.2002.2218

Hubert, N., Kadarusman, Wibowo, A., Busson, F., Caruso, D., Sulandari, S., Nafiqoh, N., Pouyaud, L., Rüber, L., Avarre, J.-C., Herder, F., Hanner, R., Keith, P. & Hadiaty, R. K. 2016. DNA Barcoding Indonesian freshwater fishes: challenges and prospects. DNA Barcodes, 3(1): 144–169. DOI: https://doi.org/10.1515/dna-2015-0018

Iida, M., Watanabe, S., Shinoda, A. & Tsukamoto, K. 2008. Recruitment of the amphidromous goby *Sicyopterus japonicus* to the estuary of the Ota River, Wakayama, Japan. Environmental Biology of Fishes, 83(3): 331–341. DOI: https://doi.org/10.1007/s10641-008-9345-7

Iida, M., Watanabe, S. & Tsukamoto, K. 2010a. Validation of otolith daily increments in the amphidromous goby *Sicyopterus japonicus*. Coastal Marine Science, 34(1): 39–41.

Iida, M., Watanabe, S. & Tsukamoto, K. 2011. Reproductive biology of the amphidromous goby *Sicyopterus japonicus* (Gobiidae: Sicydiinae). Cybium, 35(4): 329–336. DOI: https://doi.org/10.26028/cybium/2011-354-006

Iida, M., Watanabe, S. & Tsukamoto, K. 2013. Riverine life history of the amphidromous goby *Sicyopterus japonicus* (Gobiidae: Sicydiinae) in the Ota River, Wakayama, Japan. Environmental Biology of Fishes, 96(5): 645–660. DOI: https://doi.org/10.1007/s10641-012-0055-9

Iida, M., Watanabe, S., Yamada, Y., Lord, C., Keith, P. & Tsukamoto, K. 2010b. Survival and behavioral characteristics of amphidromous goby larvae of *Sicyopterus japonicus* (Tanaka, 1909) during their downstream migration. Journal of Experimental Marine Biology and Ecology, 383(1): 17–22. DOI: https://doi.org/10.1016/j.jembe.2009.11.006

Iida, M., Zenimoto, K., Watanabe, S., Kimura, S. & Tsukamoto, K. 2010c. Larval transport of the amphidromous goby *Sicyopterus japonicus* by the Kuroshio Current. Coastal Marine Science, 34(1): 42–46.

Keith, P. 2003. Biology and ecology of amphidromous Gobiidae of the Indo-Pacific and the Caribbean regions. Journal of Fish Biology, 63(4): 831–847. DOI: https://doi.org/10.1046/j.1095-8649.2003.00197.x

Keith, P., Galewski, T., Cattaneo-Berrebi, G., Hoareau, T. & Berrebi, P. 2005. Ubiquity of *Sicyopterus lagocephalus* (Teleostei: Gobioidei) and phylogeography of the genus *Sicyopterus* in the Indo-Pacific area inferred from mitochondrial cytochrome b gene. Molecular Phylogenetics and Evolution, 37(3): 721–732. DOI: https://doi.org/10.1016/j.ympev.2005.07.023

Keith, P., Hoareau, T. B., Lord, C., Ah-Yane, O., Gimonneau, G., Robinet, T. & Valade, P. 2008. Characterisation of post-larval to juvenile stages, metamorphosis and recruitment of an amphidromous goby *Sicyopterus lagocephalus* (Pallas) (Teleostei : Gobiidae : Sicydiinae). Marine and Freshwater Research, 59(10): 876–889. DOI: https://doi.org/10.1071/MF08116

Keith, P. & Hadiaty, R. K. 2015. *Stiphodon annieae*, a new species of freshwater goby from Indonesia (Gobiidae). Cybium, 38(4): 267–272. DOI: https://doi.org/10.26028/cybium/2014-384-004

Keith, P., Hadiaty, R. K. & Lord, C. (2012). A new species of *Belobranchus* (Teleostei: Gobioidei: Eleotridae) from Indonesia. Cybium, 36(3): 479–484.

Keith, P., Lord, C., Darhuddin, H., Limmon, G., Sukmono, T., Hadiaty, R. & Hubert, N. 2017a. *Schismatogobius* (Gobiidae) from Indonesia, with description of four new species. Cybium, 41(2): 195–211. DOI: 0.26028/cybium/2017-412-010

Keith, P., Lord, C. & Larson, H. K. 2017b. Review of *Schismatogobius* (Gobiidae) from Papua New Guinea to Samoa, with description of seven new species. Cybium, 41(1): 45–66. DOI: 10.26028/cybium/2017-411-005

Keith, P., Lord, C., & Maeda, K. 2015. Indo-Pacific Sicydiine Gobies: biodiversity, life traits and conservation. Société Française d'Ichtyologie. Paris. 255 pp.

Keith, P., Lord, C., & Vigneux, E. 2006. In vivo observations on postlarval development of freshwater gobies and eleotrids from French Polynesia and New Caledonia. Ichthyological Exploration of Freshwaters, 17(2): 187–191.

Keith, P. & Taillebois, L. 2014. Status and distribution of *Smilosicyopus* species (Teleostei, Gobioidei). Cybium, 38(1): 69–73.

Keith, P., Trottin, E, D., Utama, I, V., Sauri, S., Busson, F., Nurjirana, Wowor, D., Daharuddin, H., & Hubert, N. 2021. A New Species of *Schismatogobius* (Teleostei: Gobiidae) from Sulawesi (Indonesia). Cybium, 45(1): 53-58. DOI: 10.26028/cybium/2021-451-006

Keith, P., Watson, R, E., & Marquet, G. 2004. *Sicyopterus aiensis*, a new species of freshwater goby from Vanuatu (Teleostei: Gobioidei). Cybium, 28(2): 111-118.

Lord, C., Brun, C., Hautecœur, M. & Keith, P. 2010. Insights on endemism: comparison of the duration of the marine larval phase estimated by otolith microstructural analysis of three amphidromous *Sicyopterus* species (Gobioidei: Sicydiinae) from Vanuatu and New Caledonia. Ecology of Freshwater Fish, 19(1): 26–38. DOI: https://doi.org/10.1111/j.1600-0633.2009.00386.x

Maeda, K. & Saeki, T. 2018. Revision of species in *Sicyopterus* (Gobiidae: Sicydiinae) described by de Beaufort (1912), with a first record of *Sicyopterus longifilis* from Japan. Species Diversity, 23(2): 253–262. DOI: https://doi.org/10.12782/SPECDIV.23.253

Maeda, K. & Tan, H. H. 2013. Review of *Stiphodon* (Gobiidae: Sicydiinae) from Western Sumatra, with description of a new species. Raffles Bulletin of Zoology, 61(2): 749–761.

McDowall, R. M. 2007. On amphidromy, a distinct form of diadromy in aquatic organisms. Fish and Fisheries, 8(1): 1–13. DOI: https://doi.org/10.1111/j.1467-2979.2007.00232.x

Mennesson, M. I., Keith, P., Ebner, B. C. & Gerbeaux, P. 2016. *Eleotris bosetoi* (Teleostei: Gobioidei: Eleotridae), a new species of freshwater fish from the Solomon Islands. Pacific Science, 70(4): 495–507. DOI: https://doi.org/10.2984/70.4.8

Mennesson, M. I., Tabouret, H., Pécheyran, C., Feunteun, E. & Keith, P. 2015. Amphidromous life cycle of *Eleotris fusca* (Gobioidei: Eleotridae), a widespread species from the Indo-Pacific studied by otolith analyses. Cybium, 39(4): 249–260. DOI: https://doi.org/10.26028/cybium/2015-394-002

Miller, P. J. (1984). The tokology of gobioid fishes, pp 119-152. *in* Potts G. W., Wooton R.J. (eds), fish reproduction: strategies and tactics. London Academic Press.

Nelson, Josep, S., Grande, Terry, C., Wilson, Mark, V, H. 2016. Fishes of the

World (Fifth edit). John Wiley & Sons. Hoboken. 752 pp.

Nishimoto, R. T. & Kuamo'o, D. G. 1997. Recruitment of goby postlarvae into Hakalau Stream, Hawai'i Island. Micronesia Agana, vol. 30, no. 1: 41–49.

Nurjirana, Afrisal, M., Sufardin, Haris, A. & Burhanuddin, A. I. 2020. Diversity and distribution freshwater ichthyofaunal of West Sulawesi. IOP Conference Series: Earth and Environmental Science, 486(1). DOI: https://doi.org/10.1088/1755-1315/486/1/012079

Nurjirana, Burhanuddin, A. I. & Haris, A. 2019a. Diversity of penja fish (amphidromous goby) in Leppangan River, West Sulawesi, Indonesia. AACL Bioflux, 12(1): 246–249.

Nurjirana, N., Haris, A., Sahami, F. M., Keith, P. & Burhanuddin, A. I. 2019b. Preliminary note on the morphological characters of penja (amphidromous goby postlarvae) in West Sulawesi and Gorontalo Bay. IOP Conference Series: Earth and Environmental Science, 370(1). DOI: https://doi.org/10.1088/1755-1315/370/1/012007

Nurjirana, Keith, P., Burhanuddin A.I., Haris. & A., Afrisal, M. 2021. DNA barcoding of two amphidromous goby postlarvae ('penja') morphotypes from Mandar River, West Sulawesi, Indonesia. Cybium, 45(3): 243-249. DOI: https://doi.org/10.26028/cybium/2021-453-009

Nurjirana, Burhanuddin A.I., Keith, P., Haris, A. & Afrisal, M. 2022. Short communication: amphidromous goby postlarvae (penja) migration seasons and fisheries in West Sulawesi, Indonesia, preliminary data. Biodiversitas, 23(1): 375-380. DOI: 10.13057/biodiv/d230138

Olii, A. H., Sahami, F. M., Hamzah, S. N. & Pasisingi, N. 2019. Molecular approach to identify gobioid fishes, *"nike*" and "*hundala*" (Local name), from gorontalo waters, Indonesia. OnLine Journal of Biological Sciences, 19(1): 51–56. DOI: https://doi.org/10.3844/ojbsci.2019.51.56

Radtke, R, L., Kinziee III R, A., & Shafeer, D, J. 2001. Temporal and spatial variation in length of larval life and size at settlement of the Hawaiian amphidromous goby *Lentipes concolor*. Journal of Fish Biology, 59(1): 928-938.

Sahami, F. M., Kepel, R. C., Olii, A. H. & Pratasik, S. B. 2019. What species make up the Nike fish assemblages at the macrotidal estuary in Gorontalo Bay, Indonesia? F1000 Research, 8(1654): 1–6. DOI: https://doi.org/10.12688/f1000research.19501.1

Said, P. M. 2011. Ekologi Ekonomi Sumber Daya Larva Dan Juvenil Ikan Di Teluk Pelabuhanratu, Kabupaten Sukabumi, Provinsi Jawa Barat. Skripsi. Institut Pertanian Bogor. Bogor.

Shen, K. N. & Tzeng, W. N. 2002. Formation of a metamorphosis check in otoliths of the amphidromous goby *Sicyopterus japonicus*. Marine Ecology Progress Series, 228: 205–211. DOI: https://doi.org/10.3354/meps228205

Shen, K. N. & Tzeng, W. N. 2008. Reproductive strategy and recruitment dynamics of amphidromous goby *Sicyopterus japonicus* as revealed by otolith microstructure. Journal of Fish Biology, 73(1): 2497-2512.

Shiao J.C., Tzeng C.S., Li P.C., Bell. K. N. I. 2015. Upstream migration and marine early life history of amphidromous gobies inferred from otolith increments and microchemistry. Enviromental Biology Fish, 98(1): 933-950. DOI 10.1007/s10641-014-0329-5

Taillebois, L., Maeda, K., Vigneux, S. & Keith, P. 2012. Pelagic larval duration of three amphidromous Sicydiinae gobies (Teleostei: Gobioidei) including widespread and endemic species. Ecology of Freshwater Fish, 21(1): 552–559. DOI: 10.1111/j.1600-0633.2012.00575.x

Taillebois, L., Castelin, M., Lord, C., Chabarria, R., Dettaï, A. & Keith, P. 2014. New Sicydiinae phylogeny (Teleostei: Gobioidei) inferred from mitochondrial and nuclear genes: Insights on systematics and ancestral areas. Molecular Phylogenetics and Evolution, 70(1): 260–271. DOI: https://doi.org/10.1016/j.ympev.2013.09.026

Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M. & Kumar, S. 2011. MEGA5: Molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. Molecular Biology and Evolution, 28(10): 2731–2739. DOI: https://doi.org/10.1093/molbev/msr121

Tate, D. C. 1997. The role of behavioral interactions of immature Hawaiian stream fishes (Pisces: Gobiodei) in population dispersal and distribution. Micronesica, 30(1): 51–70.

Teichert, N., Richarson, M., Valade, P. & Gaudin, P. 2012. Reproduction and marine life history of an endemic amphidromous gobiid fish of Reunion Island. Aquatic Biology, 15(3): 225–236. DOI: https://doi.org/10.3354/ab00420

Teichert, N., Valade, P., Fostier, A., Lagarde, R. & Gaudin, P. 2014. Reproductive biology of an amphidromous goby, *Sicyopterus lagocephalus*, in La Réunion Island. Hydrobiologia, 726(1): 123–141. DOI: https://doi.org/10.1007/s10750-013-1756-6

Teichert, N., Valade, P., Grondin, H., Trichet, E., Sardenne, F. & Gaudin, P. 2016. Pelagic larval traits of the amphidromous goby *Sicyopterus lagocephalus* display seasonal variations related to temperature in La Réunion Island. Ecology of Freshwater Fish, 25(2): 234–247. DOI: https://doi.org/10.1111/eff.12205

Teichert, N., Valade, P., Lim, P., Dauba, F., Labonne, J., Richarson, M., Bosc, P. & Gaudin, P. 2013. Habitat selection in amphidromous Gobiidae of Reunion Island: *Sicyopterus lagocephalus* (Pallas, 1770) and *Cotylopus acutipinnis* (Guichenot, 1863). Environmental Biology of Fishes, 97(3): 255–266. DOI: https://doi.org/10.1007/s10641-013-0148-0

Tweedley, J. R., Bird, D. J., Potter, I. C., Gill, H. S., Miller, P. J., O'Donovan, G. &

Tjakrawidjaja, A. H. 2013. Species compositions and ecology of the riverine ichthyofaunas in two Sulawesian Islands in the biodiversity hotspot of Wallacea. Journal of Fish Biology, 82(6): 1916–1950. DOI: https://doi.org/10.1111/jfb.12121

Usman, M. Y. 2016. Analisis Variasi Genetik Ikan Penja Indigenous Perairan Polewali Mandar Sulawesi Barat Dan Ikan Nike (*Awaous* sp.) Indigenous Perairan Gorontalo. Skripsi. Universitas Islam Negeri Alauddin. Makassar

Valade, P., Lord, C., Grondin, H., Bosc, P., Taillebois, L., Iida, M., Tsukamoto, K. & Keith, P. 2009. Early life history and description of larval stages of an amphidromous goby, *Sicyopterus lagocephalus* (Gobioidei: Sicydiinae). Cybium, 33(4): 309–319.

Walsh, P. S., Metzger, D. A. & Higuchi, R. 2013. Biotechniques 30th anniversary gem Chelex 100 as a medium for simple extraction of DNA for PCR-based typing from forensic material. BioTechniques, 54(3): 506–513.

Watson, R. E. & Kottelat, M. 2006. Two new freshwater gobies from Halmahera, Maluku, Indonesia (Teleostei: Gobioidei: Sicydiinae). Ichthyological Exploration of Freshwaters, 17(2): 121–128.

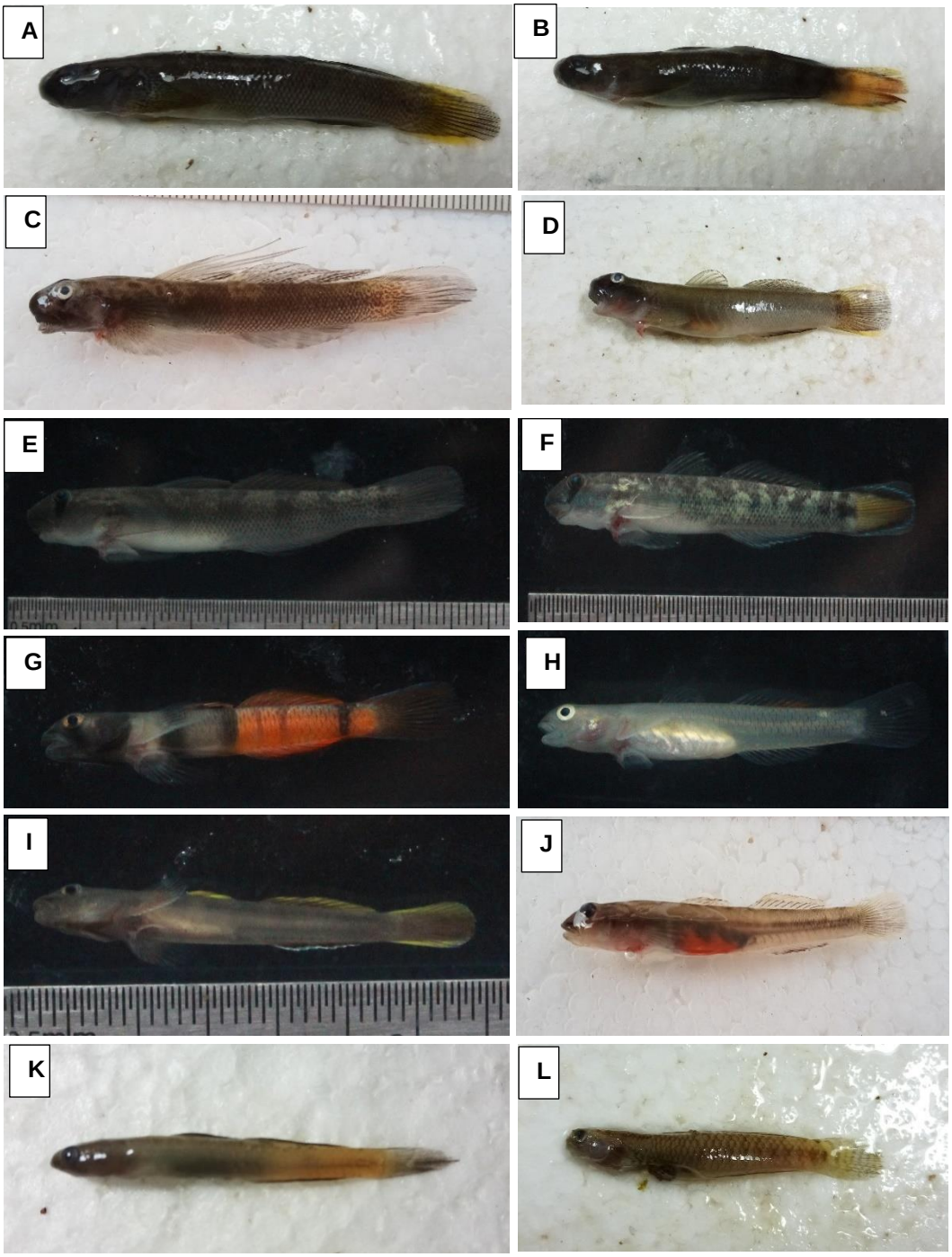
Whelan, S, & Lio, P, G. N. 2001. Molecular phylogenetics: state-of-the-art methods for looking into the past. Trends in Genetics, 17(1): 262-272.

Will, K. W. & Rubinoff, D. 2004. Myth of the molecule: DNA barcodes for species cannot replace morphology for identification and classification. Cladistics, 20(1): 47–55. DOI: https://doi.org/10.1111/j.1096-0031.2003.00008.x

Zein, M. S. A. & Prawiradilaga, D. M. 2013. DNA Barcode Fauna Indonesia. Kencana Prenadamedia Group. Jakarta. 241 pp.

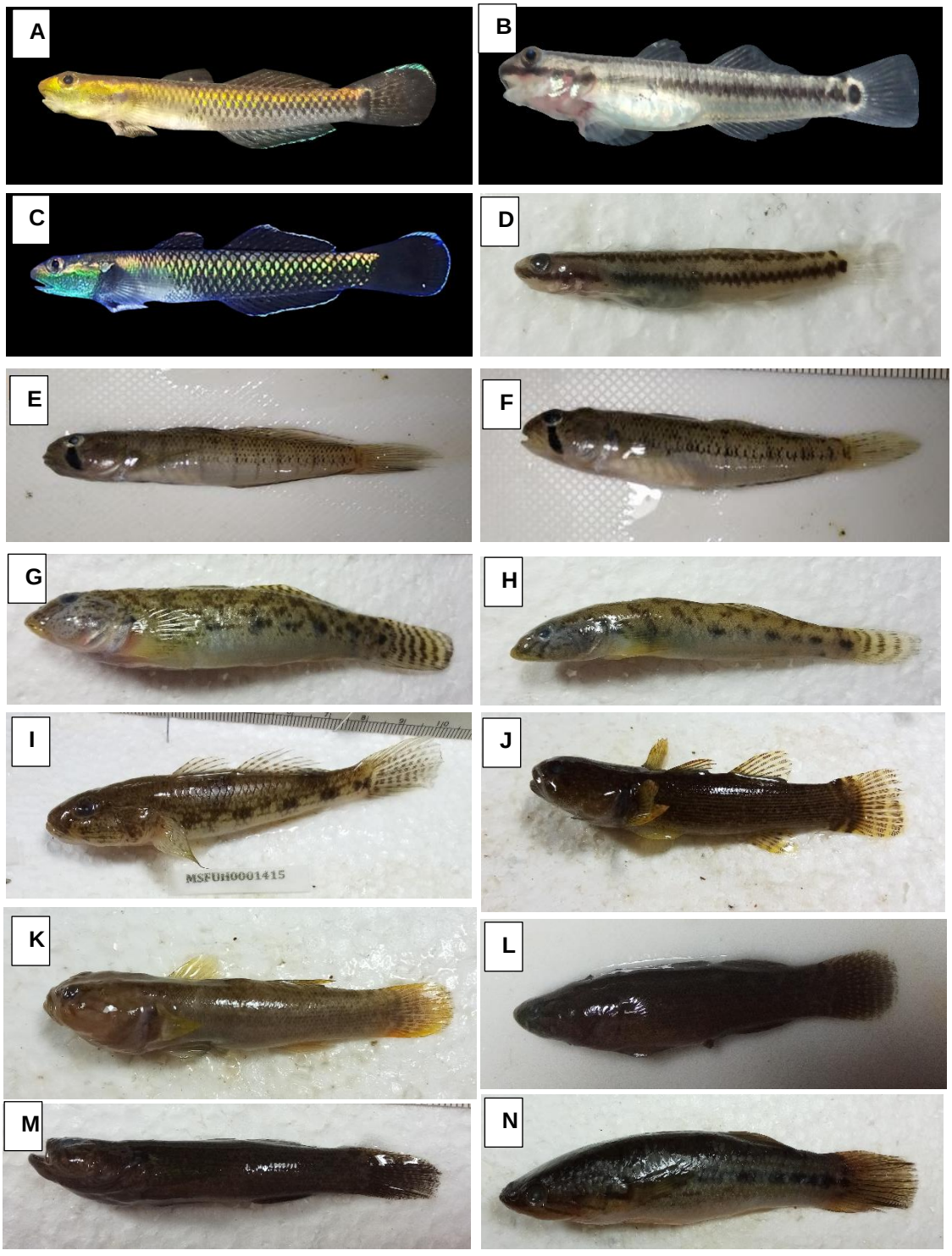
LAMPIRAN

Lampiran 1. Jenis-jenis Ikan penja yang dikoleksi dari perairan Sulawesi Barat.



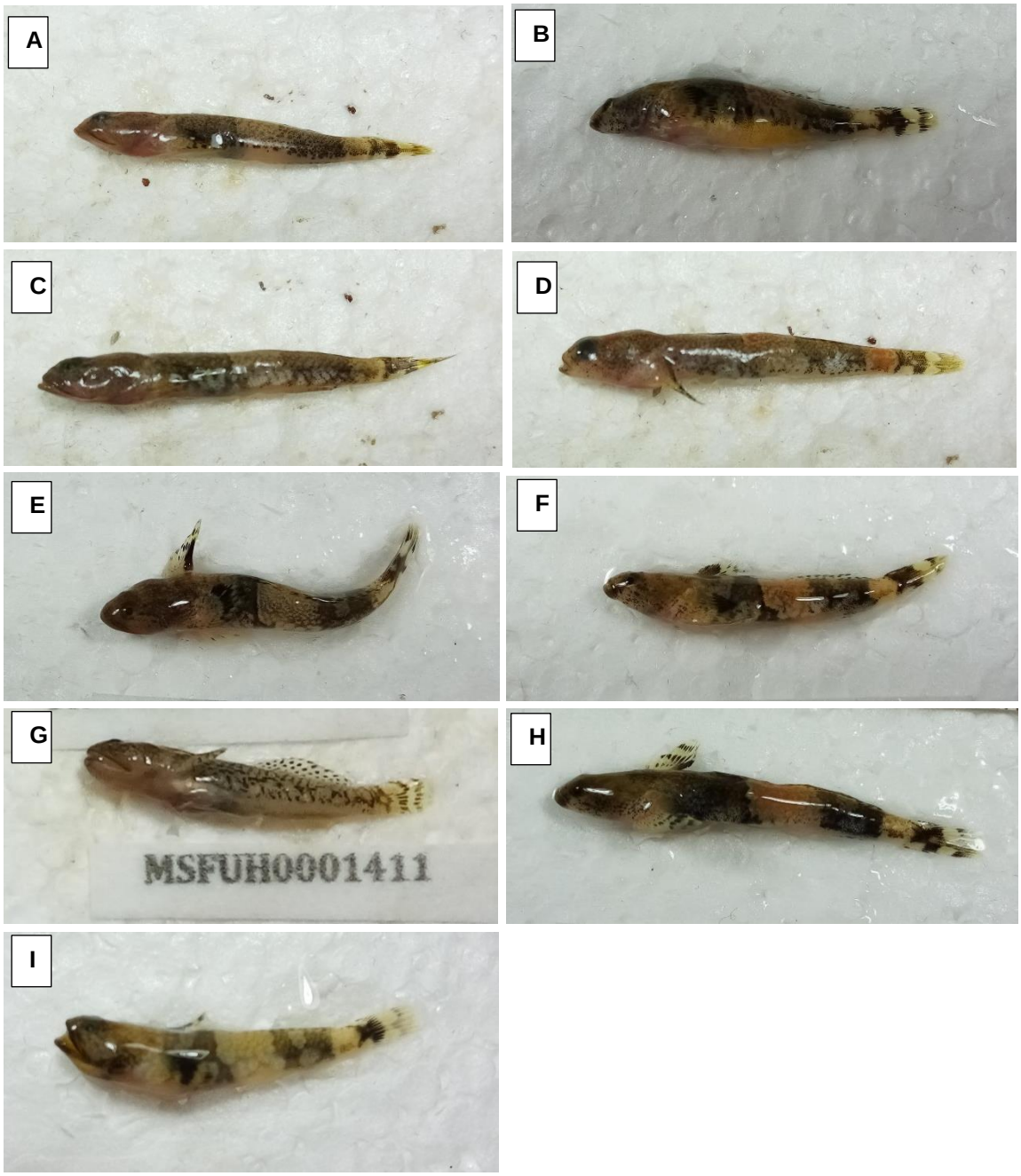
Ikan penja jenis A. *Sicyopterus microcephalus* jantan, B. *Sicyopterus microcephalus* betina, C. *Sicyopterus longifilis* jantan, D. *Sicyopterus longifilis* betina, E. *Sicyopterus cynocephalus* betina, F. *Sicyopterus cynocephalus* jantan, G. *Sicyopus zosterophorus* jantan, H. *Sicyopus zosterophorus* betina, I. *Smilosicyopus leprurus* jantan, J. *Smilosicyopus leprurus* jantan, K. *Sicyopus auxilimentus* jantan, L. *Stiphodon pelewensis* jantan (didokumentasikan oleh Nurjirana).

Lampiran 1. Lanjutan



Ikan penja jenis A. *Stiphodon semoni* jantan, B. *Stiphodon semoni* betina, C. *Stiphodon atropurpureus* jantan, D. *Stiphodon atropurpureus* betina, E. *Stenogobius genivittatus* jantan, F. *Stenogobius genivittatus* betina, G. *Awaous ocellaris* betina, H. *Awaous grammepomus* jantan, I. *Glossogobius giuris* betina, J. *Belobranchus belobranchus* betina, K. *Belobranchus segura* betina, L. *Eleotris melanosoma* betina, M. *Eleotris fusca* jantan, N. *Giuris margaritacea* betina (didokumentasikan oleh Nurjirana).

Lampiran 1. Lanjutan



Ikan penja jenis A. *Schismatogobius bussoni* jantan, B. *Schismatogobius bussoni* betina, C. *Schismatogobius marmoratus* jantan, D. *Schismatogobius marmoratus* betina, E. *Schismatogobius bruynisi* jantan, F. *Schismatogobius bruynisi* betina, G. *Schismatogobius saurii* jantan, H. *Schismatogobius saurii* betina, I. *Schismatogobius risdawatiae* jantan (didokumentasikan oleh Nurjirana).

Lampiran 2. Jarak genetik ikan penja dari perairan Sulawesi Barat.

Jenis ikan penja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*Sicyopterus microcephalus*_MSFUH1310																								
*Sicyopterus longifilis*_MSFUH1352	0,055																							
*Sicyopus zosterophorus*_MSFUH866	0,134	0,148																						
*Sicyopus zosterophorus*_MSFUH1379	0,134	0,148	0,000																					
*Sicyopus auxilimentus*_MSFUH1217	0,112	0,114	0,097	0,097																				
*Sicyopus auxilimentus*_MSFUH1265	0,112	0,114	0,097	0,097	0,000																			
*Sicyopterus microcephalus*_MSFUH868	0,007	0,053	0,134	0,134	0,118	0,118																		
*Smilosicyopus leprurus*_MSFUH113	0,114	0,107	0,112	0,112	0,114	0,114	0,112																	
*Sicyopterus microcephalus*_MSFUH1385	0,005	0,051	0,136	0,136	0,116	0,116	0,002	0,114																
*Smilosicyopus leprurus*_MSFUH864	0,114	0,107	0,112	0,112	0,114	0,114	0,112	0,000	0,114															
*Smilosicyopus leprurus*_MSFUH119	0,118	0,111	0,122	0,122	0,120	0,120	0,116	0,010	0,118	0,010														
Sicyopterus longifilis MSFUH1355	0,055	0,000	0,148	0,148	0,114	0,114	0,053	0,107	0,051	0,107	0,111													
*Sicyopterus longifilis*_MSFUH1311	0,055	0,000	0,148	0,148	0,114	0,114	0,053	0,107	0,051	0,107	0,111	0,000												
*Stiphodon pelewensis*_MSFUH1259	0,116	0,106	0,124	0,124	0,108	0,108	0,112	0,118	0,114	0,118	0,118	0,106	0,106											
*Stiphodon pelewensis*_MSFUH1396	0,116	0,106	0,124	0,124	0,108	0,108	0,112	0,118	0,114	0,118	0,118	0,106	0,106	0,000										

Lampiran 2. Lanjutan.

Jenis ikan penja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*Stiphodon pelewensis*_MSFUH1225	0,116	0,106	0,124	0,124	0,108	0,108	0,112	0,118	0,114	0,118	0,118	0,106	0,106	0,000	0,000									
*Stiphodon semoni*_MSFUH1268	0,116	0,122	0,116	0,116	0,108	0,108	0,116	0,108	0,118	0,108	0,112	0,122	0,122	0,069	0,069	0,069								
*Stiphodon semoni*_MSFUH1336	0,120	0,122	0,116	0,116	0,108	0,108	0,120	0,108	0,122	0,108	0,112	0,122	0,122	0,075	0,075	0,075	0,005							
*Stiphodon semoni*_MSFUH1394	0,118	0,120	0,114	0,114	0,106	0,106	0,118	0,106	0,120	0,106	0,110	0,120	0,120	0,071	0,071	0,071	0,002	0,003						
*Sicyopus zosterophorus*_MSFUH1212	0,134	0,152	0,003	0,003	0,101	0,101	0,134	0,116	0,136	0,116	0,122	0,152	0,152	0,128	0,128	0,128	0,120	0,120	0,118					
*Stiphodon atropurpureus*_MSFUH1284	0,129	0,120	0,110	0,110	0,101	0,101	0,129	0,116	0,131	0,116	0,120	0,120	0,120	0,060	0,060	0,060	0,044	0,043	0,043	0,114				
*Sicyopus auxilimentus*_MSFUH1222	0,112	0,114	0,097	0,097	0,000	0,000	0,118	0,114	0,116	0,114	0,120	0,114	0,114	0,108	0,108	0,108	0,108	0,108	0,106	0,101	0,101			
*Sicyopterus cynocephalus*_MSFUH1306	0,086	0,094	0,140	0,140	0,110	0,110	0,082	0,099	0,084	0,099	0,105	0,094	0,094	0,124	0,124	0,124	0,120	0,124	0,122	0,144	0,134	0,110		
*Sicyopterus cynocephalus*_MSFUH1354	0,082	0,090	0,138	0,138	0,110	0,110	0,079	0,099	0,081	0,099	0,105	0,090	0,090	0,126	0,126	0,126	0,116	0,120	0,118	0,142	0,132	0,110	0,003	
*Sicyopterus cynocephalus*_MSFUH1234	0,080	0,090	0,140	0,140	0,114	0,114	0,077	0,103	0,079	0,103	0,109	0,090	0,090	0,124	0,124	0,124	0,118	0,122	0,120	0,144	0,136	0,114	0,007	0,007

Lampiran 2. Lanjutan.

Jenis Ikan Penja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
*Schismatogobius marmoratus*_MSFUH1406																					
*Schismatogobius bruynisi*_MSFUH1400	0,206																				
*Schismatogobius bruynisi*_MSFUH1398	0,206	0,000																			
*Schismatogobius bussoni*_MSFUH1145	0,195	0,179	0,179																		
*Schismatogobius bussoni*_MSFUH1160	0,202	0,182	0,182	0,016																	
*Schismatogobius marmoratus*_MSFUH1255	0,000	0,206	0,206	0,195	0,202																
*Schismatogobius marmoratus*_MSFUH1289	0,002	0,209	0,209	0,195	0,202	0,002															
Schisamtogobius_bruynisi_MSFUH1413	0,206	0,002	0,002	0,182	0,185	0,206	0,209														
*Schismatogobius saurii*_MSFUH1416	0,209	0,005	0,005	0,184	0,187	0,209	0,211	0,004													
*Schismatogobius saurii*_MSFUH1175	0,209	0,005	0,005	0,184	0,187	0,209	0,211	0,004	0,000												
*Schismatogobius bussoni*_MSFUH1285	0,195	0,179	0,179	0,000	0,016	0,195	0,195	0,182	0,184	0,184											
Schismatogobius_saurii_MSFUH1405	0,209	0,005	0,005	0,184	0,187	0,209	0,211	0,004	0,000	0,000	0,184										
*Awaous grammepomus*_MSFUH1190	0,207	0,244	0,244	0,244	0,241	0,207	0,209	0,241	0,241	0,241	0,244	0,241									
*Awaous grammepomus*_MSFUH1196	0,216	0,254	0,254	0,254	0,251	0,216	0,219	0,251	0,251	0,251	0,254	0,251	0,007								

Lampiran 2. Lanjutan.

Jenis ikan penja	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
*Stenogobius genivittatus*_MSFUH1365	0,225	0,254	0,254	0,244	0,238	0,225	0,225	0,254	0,256	0,256	0,244	0,256	0,185	0,191							
*Glossogobius giuris*_MSFUH1415	0,263	0,252	0,252	0,263	0,261	0,263	0,261	0,249	0,252	0,252	0,263	0,252	0,233	0,240	0,253						
*Glossogobius giuris*_MSFUH870	0,290	0,273	0,273	0,290	0,288	0,290	0,287	0,270	0,272	0,272	0,290	0,272	0,253	0,260	0,278	0,024					
*Awaous ocellaris*_MSFUH1191	0,238	0,286	0,286	0,290	0,290	0,238	0,240	0,283	0,283	0,283	0,290	0,283	0,248	0,256	0,210	0,270	0,283				
Awaous_grammepomus_MSFUH1198	0,207	0,249	0,249	0,239	0,236	0,207	0,209	0,247	0,246	0,246	0,239	0,246	0,207	0,215	0,182	0,230	0,255	0,250			
*Awaous ocellaris*_MSFUH1322	0,207	0,243	0,243	0,249	0,246	0,207	0,209	0,241	0,240	0,240	0,249	0,240	0,209	0,216	0,177	0,233	0,253	0,242	0,211		
Awaous_ocellaris_MSFUH1219	0,207	0,243	0,243	0,249	0,246	0,207	0,209	0,241	0,240	0,240	0,249	0,240	0,209	0,216	0,177	0,233	0,253	0,242	0,211	0,200	
*Schismatogobius risdawatieae*_MSFUH1186	0,190	0,166	0,166	0,081	0,075	0,190	0,190	0,169	0,171	0,171	0,081	0,171	0,239	0,249	0,226	0,243	0,269	0,276	0,234	0,239	0,239

Lampiran 2. Lanjutan.

Jenis ikan penja	1	2	3	4	5	6	7	8	9	10	11
*Belobranchus segura*_MSFUH1292											
*Eleotris fusca*_MSFUH1335	0,181										
*Eleotris fusca*_MSFUH1201	0,181	0,000									
*Belobranchus belobranchus*_MSFUH1324	0,127	0,183	0,183								
*Belobranchus segura*_MSFUH1324	0,010	0,185	0,185	0,135							
*Eleotris fusca*_MSFUH1200	0,177	0,005	0,005	0,183	0,181						
*Eleotris melanosoma*_MSFUH1203	0,206	0,133	0,133	0,194	0,206	0,131					
*Eleotris melanosoma*_MSFUH1204	0,204	0,133	0,133	0,192	0,203	0,131	0,002				
*Eleotris melanosoma*_MSFUH1302	0,204	0,139	0,139	0,196	0,203	0,137	0,008	0,010			
*Giuris margaritacea*_MSFUH1364	0,193	0,180	0,180	0,184	0,195	0,181	0,181	0,179	0,181		
*Giuris margaritacea*_MSFUH1396	0,197	0,175	0,175	0,201	0,201	0,175	0,190	0,192	0,199	0,124	
*Giuris margaritacea*_MSFUH1230	0,193	0,184	0,184	0,182	0,195	0,186	0,185	0,183	0,185	0,006	0,124

Lampiran 3. Hasil penjajaran gen COI spesimen ikan penja dari perairan Sulawesi Barat di *GeneBank* (NCBI).

Spesimen	Cakupan (*Query Cover*) (%)	Identitas (*Identity*) (%)	*E-value*	Nomor akses (*Accession Number*)	Lokasi
S. cynocephalus	100%	100.00%	0.0	KU693015.1	Bali
	100%	99.69%	0.0	MK496936.1	Solomon Islands
	100%	99.69%	0.0	NC_044137.1	Solomon Islands
	100%	99.69%	0.0	MN069305.1	Gorontalo
	100%	99.39%	0.0	KU693016.1	Banten
S. microcephalus	94%	99.85	0.0	KU693045.1	Jawa
	94%	99.54	0.0	KU693052.1	Jawa
	94%	99.54	0.0	KU693046.1	Jawa
	94%	99.39	0.0	KU693055.1	Bali
	94%	99.39	0.0	KU693053.1	Jawa
	94%	99.23	0.0	KU693054.1	Bali
	98%	98.97	0.0	MK496964.1	Indonesia
	98%	98.97	0.0	MK496963.1	Perancis
	98%	98.53	0.0	NC_044144.1	Filipina
S. longifilis	98%	99.56	0.0	MK496956.1	Indonesia
	98%	99.41	0.0	NC_044142.1	Filipina
	98%	99.12	0.0	MK496959.1	Indonesia
	98%	98.76	0.0	MK496957.1	Indonesia
	98%	98.23	0.0	MK496958.1	Indonesia
	94%	99.39	0.0	MT706723.1	Gorontalo
S. zosterophorus	96%	99.55	0.0	KC407438.1	Jepang
	96%	99.55	0.0	KC407496.1	Papua New Guinea
	96%	99.40	0.0	KC407517.1	Papua New Guinea
	96%	99.25	0.0	KC407518.1	Papua New Guinea
	96%	99.25	0.0	KC407480.1	Filipina
	96%	99.10	0.0	KC407466.1	Filipina
S. auxilimentus	94%	99.69	0.0	KU693084.1	Bali
	94%	99.54	0.0	KU693083.1	Bali
	94%	99.39	0.0	KU693082.1	Bali
	94%	99.23	0.0	KU693087.1	Bali
	94%	99.23	0.0	KU693086.1	Jawa
S. leprurus	96%	99.25%	0.0	KF668816.1	France
	94%	99.85%	0.0	KF668817.1	France
S. semoni	100%	100.00%	0.0	KU693171.1	Jawa
	100%	99.85%	0.0	KU693172.1	Jawa
	100%	99.85%	0.0	MT706724.1	Gorontalo
	100%	99.69%	0.0	MN812978.1	Sulawesi

Lampiran 3. Lanjutan

Spesimen	Cakupan (*Query Cover*) (%)	Identitas (*Identity*) (%)	*E-value*	Nomor akses (*Accession Number*)	Lokasi
S. atropurpureus	100%	100.00%	0.0	KU693153.1	Bali
	100%	100.00%	0.0	KU693140.1	Bali
	100%	99.53%	0.0	KU693155.1	Bali
	100%	99.37%	0.0	KU693145.1	Jawa
	100%	99.37%	0.0	KU693142.1	Jawa
	100%	99.37%	0.0	KU693136.1	Jawa
S. pelewensis	100%	100.00%	0.0	MK496968.1	Indonesia
	100%	100.00%	0.0	KU693163.1	Banten
	100%	100.00%	0.0	KF668849.1	France
	100%	99.69%	0.0	NC_044176.1	Vanuatu
G. giuris	62%	99.31%	0.0	KU692522.1	Banten
	62%	99.31%	0.0	KU692522.1	Banten
	60%	99.52%	0.0	KU692519.1	Jawa
	94%	99.23%	0.0	KU692518.1	Jawa
	59%	99.27%	0.0	KU692517.1	Jawa
S. genivittatus	93%	99.69%	0.0	JQ432168.1	French Polynesia
	93%	99.54%	0.0	JQ432169.1	French Polynesia
	79%	100%	0.0	KU944871.1	Taiwan
	79%	99.82%	0.0	KU944869.1	Taiwan
	79%	99.64%	0.0	KU944870.1	Taiwan
A. ocellaris	100%	100.00%	0.0	KC959851.1	Filipina
	97%	99.68%	0.0	KC959856.1	Filipina
	95%	98.84%	0.0	KC959850.1	Filipina
A. grammepomus	97%	98.67%	0.0	KU692311.1	Bali
	93%	98.93%	0.0	KU692306.1	Bali
	93%	98.93%	0.0	KU692305.1	Bali
	93%	98.93%	0.0	KU692312.1	Jawa
	93%	98.77%	0.0	KU692310.1	Jawa
S. saurii	92%	100%	0.0	MG648720.1	Filipina
	94%	99.23%	0.0	MG648718.1	Maluku
	92%	99.53%	0.0	MG648721.1	Lampung
	98%	99.71%	0.0	AP018057.1	Jepang
	98%	99.56%	0.0	AP018096.1	Jepang
	98%	99.56%	0.0	AP018058.1	Jepang
	98%	99.42%	0.0	AP018099.1	Jepang

Lampiran 3. Lanjutan

Spesimen	Cakupan (*Query Cover*) (%)	Identitas (*Identity*) (%)	*E-value*	Nomor akses (*Accession Number*)	Lokasi
	94%	99.54%	0.0	KU692858.1	Jawa
	94%	99.54%	0.0	KU692857.1	Jawa
	94%	99.54%	0.0	KU692856.1	Bali
S. bruynisi	94%	99.54%	0.0	KU692855.1	Bali
	94%	99.54%	0.0	KU692854.1	Bali
	94%	99.08%	0.0	KU692853.1	Bali
	94%	98.93%	0.0	KU692851.1	Jawa
	93%	99.69%	0.0	KU692887.1	Bali
	93%	99.69%	0.0	KU692886.1	Bali
	93%	99.69%	0.0	KU692885.1	Jawa
	93%	99.69%	0.0	KU692864.1	Jawa
	93%	99.69%	0.0	KU692863.1	Jawa
S. marmoratus	93%	99.54%	0.0	KU692883.1	Jawa
	93%	99.54%	0.0	KU692882.1	Jawa
	93%	99.54%	0.0	KU692881.1	Jawa
	93%	99.54%	0.0	KU692876.1	Bali
	93%	99.38%	0.0	KU692879.1	Bali
	93%	99.23%	0.0	KU692884.1	Jawa
	100%	100.00%	0.0	MG648716.1	Sumatera
S. risdawatiae	100%	99.85%	0.0	MG648715.1	Sumatera
	98%	99.84%	0.0	MG648717.1	Sumatera
	94%	100%	0.0	MG648705.1	Maluku
S. bussoni	92%	100%	0.0	MG648701.1	Maluku
	90%	99.84%	0.0	MG648702.1	Maluku
	100%	100%	0.0	KU692352.1	Jawa
	100%	100%	0.0	KU692349.1	Jawa
	100%	99.69%	0.0	KU692351.1	Bali
B. belobranchus	100%	99.54%	0.0	MT706726.1	Gorontalo
	100%	99.23%	0.0	KU692350.1	Bali
	100%	99.23%	0.0	MT706791.1	Gorontalo
	100%	96.93%	0.0	KU692345.1	Banten
	95%	99.39%	0.0	MN069308.1	Gorontalo
	95%	99.24%	0.0	MN069306.1	Gorontalo
	95%	98.47%	0.0	KU692375.1	Jawa
	95%	98.47%	0.0	KU692374.1	Jawa
B. segura	95%	98.47%	0.0	KU692367.1	Jawa
	95%	98.32%	0.0	KU692372.1	Bali
	95%	98.16%	0.0	KU692373.1	Bali
	93%	98.28%	0.0	KU692357.1	Bali
	88%	98.03%	0.0	KU692354.1	Bali

Lampiran 3. Lanjutan

Spesimen	Cakupan (*Query Cover*) (%)	Identitas (*Identity*) (%)	*E-value*	Nomor akses (*Accession Number*)	Lokasi
E. fusca	94%	99.39%	0.0	KT960771.1	Jawa
	94%	99.23%	0.0	KT960770.1	Jawa
	94%	99.23%	0.0	KT960768.1	Jawa
	94%	99.08%	0.0	KT960773.1	Bali
	84%	99.83%	0.0	MH498109.1	Papua
	84%	99.83%	0.0	MH498098.1	Papua
E. melanosoma	100%	100.00%	0.0	KU692490.1	Banten
	100%	99.85%	0.0	KU692489.1	Jawa
	100%	99.54%	0.0	KU692488.1	Bali
	100%	99.23%	0.0	KU692486.1	Bali
G. margaritacea	100%	100.00%	0.0	KU692514.1	Bali
	100%	99.39%	0.0	KU692506.1	Bali
	100%	99.39%	0.0	KU692505.1	Bali
	100%	89.11%	0.0	KU692508.1	Jawa
	100%	88.96%	0.0	KU692513.1	Banten

Lampiran 4. Markah molekuler spesimen ikan penja dari perairan Sulawesi Barat.

MSFUH1406_*Schismatogobius marmoratus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCGGTTTTGTATTTGGTGCATGGGCAGGAATGGTAGGAACCGCACT
TAGCCTTTTAATTCGGGCTGAGCTCAGTCAACCCGGCGCCCTATTAGGAGACGACC
AGATCTATAACGTCATCGTCACCGCACATGCCTTTGTAATAATCTTTTTTATAGTTATA
CCCATCATAATCGGGGGCTTCGGAAACTGACTTATCCCCCTTATAATCGGAGCCCCA
GACATGGCCTTCCCTCGGATAAACAACATAAGCTTTTGGCTTCTGCCTCCTTCCTTTT
TACTTCTCCTTGCCTCTTCTGGCGTAGAAGCCGGGGCCGGAACAGGTTGAACGGTT
TACCCTCCCCTTGCAGGCAACCTTGCCCATGCTGGAGCCTCTGTAGACCTAACCATC
TTCTCCCTCCACTTGGCAGGTGTTTCTTCTATCCTAGGTGCCATTAACTTTATTACAA
CAATTCTCAATATAAAACCTCCTGCCATCTCTCAATACCAGACGCCCCTGTTTGTGTG
AGCAGTACTCATTACTGCAGTCCTCCTCCTTCTATCTCTTCCAGTCCTTGCCGCAGG
CATCACAATGCTTCTGACAGACCGAAACCTAAATACAACCTTCTTCGACCCGGCGGG
GGGAGGAGACCCCAATTCTTTATCAACACTTATTCTGATTCTTCGGCCACCCGGAAG
GTCTAA

MSFUH1255_*Schismatogobius marmoratus*_Sulawesi Barat_Indonesia
ATTGGCACCCTGTATTTAGTTTTGGTTGCATGGGCAGGAATGGTAGGAACCGCACTT
AGCCTTTTAATTCGGGCTGAGCTCAGTCAACCCGGCGCCCTATTAGGAGACGACCA
GATCTATAACGTCATCGTCACCGCACATGCCTTTGTAATAATCTTTTTTATAGTTATAC
CCATCATAATCGGGGGCTTCGGAAACTGACTTATCCCCCTTATAATCGGAGCCCCAG
ACATGGCCTTCCCTCGGATAAACAACATAAGCTTTTGGCTTCTGCCTCCTTCCTTTTT
ACTTCTCCTTGCCTCTTCTGGCGTAGAAGCCGGGGCCGGAACAGGTTGAACGGTTT
ACCCTCCCCTTGCAGGCAACCTTGCCCATGCTGGAGCCTCTGTAGACCTAACCATCT
TCTCCCTCCACTTGGCAGGTGTTTCTTCTATCCTAGGTGCCATTAACTTTATTACAAC
AATTCTCAATATAAAACCTCCTGCCATCTCTCAATACCAGACGCCCCTGTTTGTGTGA
GCAGTACTCATTACTGCAGTCCTCCTCCTTCTATCTCTTCCAGTCCTTGCCGCAGGC
ATCACAATGCTTCTGACAGACCGAAACCTAAATACAACCTTCTTCGACCCGGCGGGG
GGAGGAGACCCAATTCTTTATCAACACTTATTCTGATTCTTTGGCCACCAGAAAGTCT
AA

MSFUH1289_*Schismatogobius marmoratus*_Sulawesi Barat_Indonesia
ATTGGCACCCTGTATTTAGTATTTGGTGCATGGGCAGGAATGGTAGGAACCGCACTT
AGCCTTTTAATTCGGGCTGAGCTCAGTCAACCCGGCGCCCTATTAGGAGACGACCA
GATCTATAACGTCATCGTCACCGCACATGCCTTTGTAATAATCTTTTTTATAGTTATAC
CCATCATAATCGGGGGCTTCGGAAACTGACTTATCCCCCTTATAATCGGAGCCCCAG
ACATGGCCTTCCCTCGGATAAACAACATAAGCTTTTGGCTTCTGCCTCCTTCCTTTTT
ACTGCTCCTTGCCTCTTCTGGCGTAGAAGCCGGGGCCGGAACAGGTTGAACGGTTT
ACCCTCCCCTTGCAGGCAACCTTGCCCATGCTGGAGCCTCTGTAGACCTAACCATCT
TCTCCCTCCACTTGGCAGGTGTTTCTTCTATCCTAGGTGCCATTAACTTTATTACAAC
AATTCTCAATATAAAACCTCCTGCCATCTCTCAATACCAGACGCCCCTGTTTGTGTGA
GCAGTACTCATTACTGCAGTCCTCCTCCTTCTATCTCTTCCAGTCCTTGCCGCAGGC
ATCACAATGCTTCTGACAGACCGAAACCTAAATACAACCTTCTTCGACCCGGCGGGG
GGAGGAGACCCAATTCTTTATCAACACTTATTCTGATTCTTTGGCCACCAGAAAAGTC
TAA

Lampiran 4. Lanjutan.

MSFUH1400_ *Schismatogobius bruynisi*_Sulawesi Barat_Indonesia
ATTGGCACCCTTTATTTAGTCTTTGGGTGGCCTGGGCAGGGATGGTAGGAACCGCT
CTAAGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGA
TCAAATTTACAATGTAATCGTCACCGCCCATGCGTTTGTAATAATCTTTTTTATGGTTA
TGCCCATCATGATCGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCC
CCCGATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCT
TTCCTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAAC
AGTCTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAA
CCATCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTAT
TACGACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTT
GTGTGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCG
CAGGAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGG
CAGGGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGATTCTTCGGCCACCCG
GAAGGTCTAAAA

MSFUH1398_ *Schismatogobius bruynisi*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTTTTTTGTCTTTGGTGCCTGGGCAGGGATGGTAGGAACCGCTCTA
AGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGATCA
AATTTACAATGTAATCGTCACCGCCCATGCGTTTGTAATAATCTTTTTTATGGTTATGC
CCATCATGATCGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCCCCC
GATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCTTTC
CTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAACAGT
CTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAACCA
TCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTATTAC
GACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTTGTG
TGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCGCAG
GAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGGCAG
GGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGCTTCTTCGGCCACCCCGGA
CGTCTAAAA

MSFUH1413_ *Schismatogobius bruynisi*_Sulawesi Barat_Indonesia
ATTGGCACCCTTTATTTAGTCTTTGGTGCCTGGGCAGGGATGGTAGGAACCGCTCTA
AGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGATCA
AATTTACAATGTAATCGTCACCGCCCATGCATTTGTAATAATCTTTTTTATGGTTATGC
CCATCATGATCGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCCCCC
GATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCTTTC
CTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAACAGT
CTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAACCA
TCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTATTAC
GACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTTGTG
TGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCGCAG
GAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGGCAG
GGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGCTTCTTCGGCCACCCCGAC
GTCTAAGT

Lampiran 4. Lanjutan.

MSFUH1145_ *Schismatogobius bussoni*_Sulawesi Barat_Indonesia
ATTGGCACCCTCTACTTAGTCTTCGGTGCCTGGGCAGGGATAGTTGGAACCGCCCT
TAGCCTGCTTATTCGGGCGGAGCTCAGCCAACCCGGGGCCCTATTAGGGGACGATC
AGATTTATAACGTGATCGTCACCGCACATGCGTTTGTAATAATCTTTTTTATAGTTATA
CCCATCATGATCGGGGGCTTCGGAAACTGGCTTATCCCTCTTATAATCGGCGCCCC
AGACATAGCCTTTCCCCGAATAAACAATATGAGCTTTTGACTGCTCCCTCCCTCTTTC
CTTCTCCTCCTCGCCTCTTCCGGAGTCGAGGCCGGAGCGGGGACAGGCTGAACAG
TTTATCCTCCCTTAGCAGGGAACCTCGCACATGCGGGCGCGTCAGTGGATCTCACC
ATCTTCTCCCTTCACCTGGCAGGTGTCTCTTCTATTCTGGGGGCCATTAACTTTATCA
CAACCATTCTTAATATAAAACCCCCAGCCATTTCACAGTATCAAACCCCGTTGTTTGT
GTGAGCAGTACTTATTACTGCCGTTCTTTTACTTCTTTCCCTCCCAGTCCTTGCAGCA
GGCATTACAATGTTGCTCACAGACCGAAACCTTAACACGACTTTCTTCGATCCGGCA
GGAGGGGGAGACCCCATTTTGTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAA
AGTCTAAA

MSFUH1160_ *Schismatogobius bussoni*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTCTCTAGTCTTCGGTGCCTGGGCAGGGATAGTTGGAACCGCCCT
TAGCCTGCTTATTCGGGCGGAGCTCAGCCAACCCGGGGCCCTACTAGGGGACGAT
CAGATTTATAACGTGATCGTCACCGCACATGCGTTTGTAATAATCTTTTTTATAGTCAT
ACCCATCATGATTGGGGGCTTCGGAAACTGGCTTATCCCTCTTATAATCGGCGCCCC
AGACATAGCCTTTCCCCGAATAAACAATATGAGCTTTTGACTGCTTCCTCCCTCTTTC
CTTCTCCTCCTCGCCTCTTCCGGAGTCGAAGCCGGAGCGGGGACAGGCTGAACAGT
CTATCCTCCCTTAGCAGGGAACCTCGCACATGCGGGCGCGTCAGTGGATCTCACCA
TCTTCTCCCTTCACCTCGCAGGTGTCTCTTCTATTCTGGGGGCCATTAACTTTATCAC
GACCATTCTTAATATAAAACCCCCAGCCATTTCACAGTATCAAACCCCCTTGTTTGTG
TGAGCAGTACTTATTACTGCCGTTCTTTTACTTCTTTCCCTCCCAGTCCTTGCAGCAG
GCATTACAATGTTGCTCACAGACCGAAACCTCAACACGACTTTCTTCGATCCGGCAG
GAGGGGGAGACCCCATTTTGTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAAA
GTCTAA

MSFUH1285_ *Schismatogobius bussoni*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTCACTAGTCTTCGAGGTGCCTGGGCAGGGATAGTTGGAACCGCC
CTTAGCCTGCTTATTCGGGCGGAGCTCAGCCAACCCGGGGCCCTATTAGGGGACGA
TCAGATTTATAACGTGATCGTCACCGCACATGCGTTTGTAATAATCTTTTTTATAGTTA
TACCCATCATGATCGGGGGCTTCGGAAACTGGCTTATCCCTCTTATAATCGGCGCCC
CAGACATAGCCTTTCCCCGAATAAACAATATGAGCTTTTGACTGCTCCCTCCCTCTTT
CCTTCTCCTCCTCGCCTCTTCCGGAGTCGAGGCCGGAGCGGGGACAGGCTGAACA
GTTTATCCTCCCTTAGCAGGGAACCTCGCACATGCGGGCGCGTCAGTGGATCTCAC
CATCTTCTCCCTTCACCTGGCAGGTGTCTCTTCTATTCTGGGGGCCATTAACTTTATC
ACAACCATTCTTAATATAAAACCCCCAGCCATTTCACAGTATCAAACCCCGTTGTTTG
TGTGAGCAGTACTTATTACTGCCGTTCTTTTACTTCTTTCCCTCCCAGTCCTTGCAGC
AGGCATTACAATGTTGCTCACAGACCGAAACCTTAACACGACTTTCTTCGATCCGGC
AGGAGGGGGAGACCCCATTTTGTACCAACACCTGTTCTGATTCTTTGGCCACCAGAA
AAGTCTAAA

Lampiran 4. Lanjutan.

MSFUH1416_ *Schismatogobius saurii*_Sulawesi Barat_Indonesia
ATTGGCACCCCTTATTTAGTCTTTGGTGCCTGGGCAGGGATGGTAGGAACCGCTCTA
AGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGATCA
AATTTACAATGTAATCGTCACCGCCCATGCATTTGTAATAATCTTTTTTATGGTTATGC
CCATCATGATCGGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCCCCC
GATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCTTTC
CTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAACAGT
CTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAACCA
TCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTATTAC
GACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTTGTG
TGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCGCAG
GAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGGCAG
GGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAAA
GTCTAA

MSFUH1175_ *Schismatogobius saurii*_Sulawesi Barat_Indonesia
ATTGGCACCCTTTATATGTTCTTTGGTGCCTGGGCAGGGATGGTAGGAACCGCTCTA
AGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGATCA
AATTTACAATGTAATCGTCACCGCCCATGCATTTGTAATAATCTTTTTTATGGTTATGC
CCATCATGATCGGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCCCCC
GATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCTTTC
CTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAACAGT
CTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAACCA
TCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTATTAC
GACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTTGTG
TGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCGCAG
GAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGGCAG
GGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAAA
GTCTAAA

MSFUH1405_ *Schismatogobius saurii*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTTTTTAGTCTTTGGTGCCTGGGCAGGGATGGTAGGAACCGCTCT
AAGCCTCTTAATCCGGGCCGAACTAAGTCAGCCCGGCGCTCTATTAGGGGACGATC
AAATTTACAATGTAATCGTCACCGCCCATGCATTTGTAATAATCTTTTTTATGGTTATG
CCCATCATGATCGGGGGCTTTGGGAACTGGCTTATCCCCCTCATGATTGGTGCCCC
CGATATAGCCTTTCCTCGGATAAACAACATAAGCTTCTGGCTCCTCCCCCCCTCTTT
CCTTCTTCTCCTTGCCTCTTCAGGAGTAGAGGCCGGGGCCGGAACGGGCTGAACAG
TCTACCCTCCCCTGGCAGGGAACCTCGCGCACGCCGGGGCTTCTGTGGACTTAACC
ATCTTCTCCCTTCACCTCGCGGGGGTCTCTTCAATTCTAGGCGCCATTAATTTTATTA
CGACTATTCTTAACATAAAGCCCCCAGCCATTTCACAGTACCAGACACCTCTATTTGT
GTGAGCAGTCCTCATCACTGCAGTTCTTTTACTTCTCTCCTTGCCAGTTCTTGCCGCA
GGAATTACAATGCTACTCACGGACCGAAATTTAAACACAACATTCTTTGACCCGGCA
GGGGGAGGAGACCCCATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAA
-GTCTAAA

Lampiran 4. Lanjutan.

MSFUH1186_ *Schismatogobius risdawatieae*_Sulawesi Barat_Indonesia
CCTCTACCTAGTCTTCGGTGCCTGGGCAGGGATGGTGGGAACCGCCCTTAGCCTGC
TAATCCGGGCGGAGCTCAGCCAGCCCGGAGCCCTACTGGGAGACGATCAAATTTAC
AATGTGATCGTCACCGCACATGCGTTTGTAATAATCTTTTTTATAGTCATACCCATCA
TGATCGGGGGGCTTCGGAAACTGGCTTATCCCTCTTATAATCGGCGCCCCAGATATG
GCCTTTCCTCGAATAAACAATATAAGCTTTTGACTGCTTCCTCCCTCTTTCCTCCTCC
TCCTCGCCTCTTCCGGAGTCGAGGCCGGGGCCGGAACAGGCTGAACGGTCTATCC
CCCCTTAGCGGGGAACCTTGCACATGCGGGGGCGTCCGTGGACCTCACCATCTTCT
CCCTTCACCTCGCAGGTGTCTCTTCAATCCTGGGGGCCATTAACTTTATCACGACCA
TCCTTAATATAAAACCCCCAGCCATTTCGCAGTACCAAACCCCTCTGTTCGTGTGAG
CAGTCCTTATTACTGCCGTTCTCTTACTTCTCTCCCTCCCCGTCCTTGCAGCGGGCA
TTACAATGTTGCTTACAGACCGAAACCTAAACACAACCTTCTTCGACCCGGCAGGAG
GGGGAGACCCCATTTTGTACCAACACCTG

MSFUH1325_ *Belobranchus belobranchus* _Sulawesi Barat_Indonesia
CCTTTATCTTGTATTTGGTGCTTGAGCGGGGATAGTGGGCACAGCTTTAAGCCTACT
TATCCGAGCTGAATTAAGTCAACCCGGAGCACTCCTGGGAGACGACCAAATCTATAA
TGTTATCGTTACCGCTCACGCGTTCGTAATAATTTTCTTTATAGTAATACCAATTATGA
TTGGCGGATTTGGTAACTGACTAATCCCGCTAATGATCGGCGCCCCTGATATAGCCT
TCCCACGAATAAATAACATAAGCTTTTGACTTCTTCCCCCCTCCTTCCTACTTCTCCT
GGCATCCTCCGGAGTAGAAGCCGGGGCTGGAACAGGTTGAACCGTTTACCCGCCC
TTAGCGGGAAACCTTGCCCATGCAGGCGCTTCTGTAGACCTAACAATTTTTTCACTC
CACTTAGCCGGGGTGTCCTCAATTCTTGGGGCAATTAACTTCATCACCACAATTATTA
ATATAAAACCACCAGCAATTTCCCAATACCAAACACCCCTGTTCGTCTGGGCTGTTCT
AATTACAGCCGTCTTACTACTACTATCCCTCCCCGTGCTTGCCGCAGGTATTACAAT
GCTACTCACAGATCGAAATCTAAATACAACTTTCTTCGACCCAG-
CAGGGGGTGGAGACCCAATTCTATATCAACATCTC

MSFUH1292_ *Belobranchus segura* _Sulawesi Barat_Indonesia
CCTTTATCTTGTCTTCGGTGCCTGAGCCGGGATAGTGGGCACAGCTTTAAGCCTACT
CATCCGCGCTGAACTAAGTCAACCTGGCGCACTCCTAGGAGATGACCAGATCTATAA
TGTTATCGTTACCGCCCACGCGTTCGTAATAATTTTCTTTATAGTAATACCAATTATGA
TTGGCGGATTTGGTAACTGACTAATCCCCTTAATGATTGGAGCCCCAGACATGGCCT
TCCCACGAATAAACAACATAAGTTTCTGACTCCTCCCGCCATCTTTCCTCCTCCTTTT
AGCATCCTCTGGAGTAGAAGCAGGGGCCGGAACAGGGTGAACCGTTTACCCGCCC
CTAGCGGGCAACCTCGCCCACGCAGGCGCCTCTGTGGACCTAACAATCTTTTCACT
ACACCTAGCAGGGGTATCCTCAATTCTTGGAGCAATTAATTTCATTACCACAATTATT
AACATAAAACCTCCGGCAATTTCCCAATACCAAACGCCCTTGTTCGTCTGAGCCGTT
CTAATTACAGCCGTCTTATTACTATTATCCCTTCCCGTACTTGCTGCTGGCATCACAA
TGCTACTTACAGATCGAAATTTAAATACGACGTTCTTTGACCCGG-
CCGGGGGTGGGGACCCAATCTTATACCAACACCTT

MSFUH1415_ *Glossogobius giuris* _Sulawesi Barat_Indonesia
ATTGGCACCCTTTATTTAGTATTTGGCGCCTGAGCTGGTATAGTACGCACTGATTTGA
GCCTACTAATTCGAGCTGAGCTAAGTCAACCGATGCGCTCTATTAGGTGATGATCAA
ATTTATAATGTTATTGTCACCGCCCACGCATTTGTTATAATTTTCTTTATAGTAATACC
AATTATGATTGGAGGGTTTGGGAATTGACTAATCCCCCTAATAATTGGCGCCCCTGA
TATGGCCTTCCCTCGAATAAATAACATAAGCTTTTGGCTATTGCCCCCCTCTTTCCTT
CTGCTGCTCTCTTCTTCCTGGGTTGAAGCAGGGGCTGGAACAGGATGAACTGTTTAT
CCCCCACTAGCAGGAAATCTTGCACACGCAGGAGCATCGGTAGATCTCACTATTTTT
TCTTTACATCTTGCTGGTATTTCTTCAATCCTCGGGGCTATTAATTTTATTACCACCAT
TTTAAATATGAAACCCCCAGCTATTTCTCAATACCAGACCCCTTTATTTGTATGAGCA
GTCTTAATTACTGCCGTGCTTTTACTTTTGTCCCTGCCAGTGCTTGCCGCGGGCATT
ACAATGCTTCTCACAGACCGAAACCTAAACACAACATTTTTTGACCCTGCAGGAGGA
GGAAACCCAATTCTTTACCAGCACTTATTTTGATTCTTTGGCCACCCAAAAGTCTAAA
G

Lampiran 4. Lanjutan.

MSFUH870_ *Glossogobius giuris* _Sulawesi Barat_Indonesia
ATTGGCACCCTTTATTTAGTATTTGGCGCCTGAGCTGGTATAGTAGGCACTGCTTTG
AGCCTACTAATTCGAGCTGAGCTAAGTCAACCGGTGCGCTCTATTAGGTGATGATCA
AATTTATAATGTTATTGTCACCGCCCACGCATTTGTTATAATTTTCTTTATAGTAATAC
CAATTATGATTGGAGGGTTTGGGAATTGACTAATCCCCCTAATAATTGGCGCCCCTG
ATATGGCCTTCCCTCGAATAAATAACATAAGCTTTTGGCTATTGCCCCCCTCTTTCCT
TCTGTTGCTGTCTTCTTCCTGGGTTGAAGCAGGGGCTGGAACAGGATGAACTGTTTA
TCCCCCACTAGCAGGAAATCTTGCACACGCAGGAGCATCGGTAGATCTCACTATTTT
TTCTTTACATCTTGCTGGTATTTCTTCAATCCTCGGGGCTCTTAATTTTATTACCACCA
TTTTAAATATGAAACCCCCAGATATTTCTCAATACCAGACCCCTTTATTTGTATGAGCT
GTCTTCATCCCTGCCGTGCTTTTACTTTCGTCCCTGCCAGTGCTTGCAGCGGGCATT
ACCATGCTTCTCGCAGACCGAAACCTAAACACAACATTTTCTGACCCTGCAGGAGGA
GGAAACCCAATTCTTTACCAGCACTTATTTTGATTCTTTGGCCACCCAAAAGTCTAAA
G

MSFUH1364_ *Giuris margaritacea* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTTGGTGCCTGGGCGGGAATAGTGGGCACAGCTTTAAGCCTGCT
TATTCGAGCCGAACTAAGTCAACCCGGAGCCCTACTGGGGGACGACCAGATTTACA
ACGTCATCGTTACAGCTCACGCCTTCGTGATAATTTTCTTTATAGTAATACCAATTAT
GATTGGGGGCTTTGGAAACTGATTAGTGCCCCTAATGATTGGCGCCCCCGACATGG
CCTTCCCCCGAATAAATAACATGAGCTTTTGACTCCTTCCACCGTCCTTCCTCCTACT
TCTAGCATCTTCTGGAGTAGAGGCGGGAGCTGGAACAGGATGAACCGTCTACCCCC
CTCTAGCAGGGAACCTAGCCCACGCAGGGGCCTCCGTAGATCTAACAATTTTTTCTC
TTCATCTTGCCGGTGTTTCCTCAATTCTAGGGGCCATCAACTTCATTACTACAATTAT
TAACATAAAACCCCCTGCCATTTCACAGTACCAAACACCACTATTCGTGTGAGCAGTT
CTAATCACAGCCGTCCTCCTACTTCTCTCCCTCCCAGTCCTAGCTGCTGGCATCACA
ATACTCCTCACAGACCGAAACTTAAATACAACCTTCTTCGACCCTG-
CCGGGGGAGGAGACCCAATTCTATACCAACACCTT

MSFUH1396_ *Giuris margaritacea* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTCGGTGCCTGAGCGGGAATAGTGGGCACGGCTTTAAGCCTGC
TAATTCGAGCCGAATTAAGTCAACCTGGCGCCCTGCTAGGAGATGACCAAATTTATA
ATGTCATCGTGACAGCTCATGCCTTCGTGATAATTTTCTTTATAGTAATACCAATTATG
ATTGGCGGCTTTGGAAATTGACTGGTGCCTCTAATGATTGGCGCCCCTGACATGGC
CTTTCCCCGAATAAACAACATAAGCTTCTGACTCCTTCCCCCATCTTTCCTTCTTCTT
CTAGCATCTTCTGGCGTAGAGGCAGGGGCTGGAACAGGGTGAACCGTCTACCCCC
CTCTAGCAGGAAACTTAGCCCACGCAGGGGCCTCCGTAGATCTAACCATCTTCTCC
CTTCATCTTGCCGGTGTCTCCTCTATTCTAGGGGCCATCAACTTCATCACCACAATTA
TTAATATGAAGCCCCCTGCCATTTCACAATACCAAACGCCTCTGTTCGTATGGGCAG
TCCTGATTACAGCCGTTCTCCTACTTCTGTCTCTGCCAGTCCTAGCCGCTGGTATCA
CAATGCTTCTCACAGACCGAAACTTAAATACAACCTTCTTTGACCCTGCTGGAGGAG
GCGATCCAATCCTATACCAACATCTT

MSFUH1230_ *Giuris margaritacea* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTTGGTGCCTGGGCGGGAATAGTGGGCACAGCTTTAAGCCTGCT
TATTCGAGCCGAACTAAGTCAACCCGGAGCCCTACTGGGAGACGACCAGATTTACA
ACGTCATCGTTACAGCTCACGCCTTCGTGATAATTTTCTTTATAGTAATACCAATTAT
GATTGGGGGCTTTGGAAACTGATTAGTGCCCCTAATGATTGGCGCCCCCGACATGG
CCTTCCCCCGAATAAATAACATGAGCTTTTGACTCCTTCCACCGTCCTTCCTCCTACT
TCTAGCATCTTCTGGAGTAGAGGCGGGAGCTGGAACAGGGTGAACCGTCTACCCCC
CTTTAGCAGGGAACCTAGCCCACGCAGGGGCCTCCGTAGATCTGACAATTTTTTCTC
TTCATCTTGCCGGTGTTTCCTCAATTCTAGGGGCCATCAACTTCATTACTACAATTAT
TAACATAAAACCCCCTGCCATTTCACAGTACCAAACACCACTATTCGTGTGAGCAGTT
CTAATCACAGCCGTCCTCCTACTTCTCTCCCTCCCAGTCCTAGCTGCTGGCATCACA
ATACTCCTCACAGACCGAAACTTAAATACAACCTTCTTCGACCCTGCCGGGGGAGGA
GACCCAATTCTATACCAACACCTT

Lampiran 4. Lanjutan.

MSFUH1203_ *Eleotris melanosoma* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTTGGTGCTTGAGCAGGCATGGTAGGCACCGCTTTAAGCCTACT
AATCCGCGCCGAACTAAGTCAACCTGGTGCCTTACTAGGAGACGACCAAATCTACAA
TGTCATCGTTACGGCTCATGCCTTTGTAATGATTTTCTTTATAGTAATACCAATCATGA
TTGGTGGCTTCGGAAACTGATTAATCCCTCTAATAATCGGCGCCCCAGACATGGCTT
TCCCACGAATAAACAATATAAGCTTCTGACTCCTCCCCCCTTCCTTCCTTCTCCTTCT
GGCATCCTCAGGCGTTGAAGCAGGAGCTGGCACAGGATGAACTGTTTACCCCCCTC
TGGCAGGGAACCTTGCCCACGCAGGGGCTTCCGTAGACTTAACAATTTTTTCCCTTC
ATCTGGCAGGTGTTTCATCAATTTTAGGGGCCATCAACTTTATTACCACAATTATTAA
TATGAAGCCCCCCGCAATTTCTCAATACCAAACACCTCTGTTCGTCTGAGCTGTTTTA
ATTACAGCAGTACTATTATTACTATCCCTTCCCGTGCTTGCCGCCGGCATCACAATAC
TGCTCACAGACCGAAACCTCAACACTACCTTCTTTGACCCAG-
CCGGAGGAGGAGACCCAATTCTATACCAACACCTC

MSFUH1204_ *Eleotris melanosoma* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTTGGTGCTTGAGCAGGCATGGTAGGCACCGCTTTAAGCCTACT
AATCCGCGCCGAACTAAGTCAACCTGGTGCCTTACTAGGAGACGACCAAATCTACAA
TGTCATCGTTACGGCTCATGCCTTTGTAATGATTTTCTTTATAGTAATACCAATCATGA
TTGGTGGCTTCGGAAACTGATTAATCCCTCTAATAATCGGCGCCCCAGACATGGCTT
TCCCACGAATAAACAATATAAGCTTCTGACTCCTCCCCCCTTCCTTCCTTCTCCTTCT
GGCATCCTCAGGCGTTGAAGCAGGAGCTGGCACAGGATGAACTGTTTACCCCCCTC
TGGCAGGGAACCTTGCCCACGCAGGGGCTTCCGTAGACTTAACAATTTTTTCCCTTC
ATCTGGCAGGTGTTTCATCAATTTTAGGGGCCATCAACTTTATTACCACAATTATTAA
TATGAAGCCCCCCGCAATTTCTCAATACCAAACACCTCTGTTCGTCTGAGCTGTTTTA
ATTACAGCAGTACTATTATTACTATCCCTTCCCGTGCTTGCCGCCGGCATCACAATAC
TGCTCACAGACCGAAACCTCAACACTACCTTCTTTGACCCAGCCGGGGGGAGGAGAC
CCAATTCTATACCAACACCTC

MSFUH1302_ *Eleotris melanosoma* _Sulawesi Barat_Indonesia
CCTCTATCTTGTATTTGGTGCTTGAGCAGGCATGGTAGGCACCGCTTTAAGCCTACT
AATCCGCGCCGAACTAAGTCAACCTGGTGCCTTACTAGGAGACGACCAAATCTACAA
TGTCATCGTTACGGCTCATGCCTTTGTAATGATTTTCTTTATAGTAATACCAATCATGA
TTGGTGGCTTCGGAAACTGATTAATCCCTCTAATAATCGGCGCCCCAGACATGGCTT
TCCCACGAATAAACAATATAAGCTTCTGACTCCTCCCCCCTTCCTTCCTTCTCCTTCT
GGCATCCTCAGGCGTTGAAGCAGGAGCTGGCACAGGATGAACTGTTTACCCCCCTC
TGGCAGGGAACCTTGCCCATGCAGGGGCTTCCGTAGACTTAACAATTTTTTCCCTTC
ATCTGGCAGGTGTTTCATCAATTTTAGGGGCCATCAACTTTATTACTACAATTATTAAT
ATGAAACCCCCCGCAATTTCTCAATACCAAACACCTCTGTTCGTCTGAGCTGTTTTAA
TTACAGCAGTACTATTATTACTATCCCTTCCCGTACTTGCCGCCGGCATCACAATACT
GCTCACAGACCGAAACCTCAACACTACCTTCTTTGACCCAGCCGGAGGAGGAGACC
CAATTTTATACCAACACCTC

MSFUH1335_ *Eleotris fusca*_Sulawesi Barat_Indonesia
ATTGGCACCCCTTATTTGGTATTTGGTGCTTGAGCGGGCATAGTGGGCACTGCTTTA
AGCCTACTCATCCGCGCTGAACTGAGTCAACCTGGTGCCCTACTAGGAGACGACCA
AATTTACAATGTCATCGTTACGGCCCATGCCTTCGTGATGATTTTCTTTATAGTAATA
CCAATTATGATTGGTGGCTTTGGAAATTGATTAATCCCCTTAATAATTGGCGCCCCAG
ACATGGCCTTCCCACGAATAAACAACATAAGCTTCTGACTCCTCCCTCCTTCCTTTCT
CCTCCTCCTTGCCTCTTCTGGGGTCGAAGCAGGGGCTGGCACAGGATGAACCGTCT
ACCCCCCTCTGGCAGGAAACCTCGCCCACGCAGGGGCCTCTGTAGACCTAACAATT
TTCTCCCTTCACTTAGCCGGCGTGTCTTCAATTTTAGGGGCTATTAACTTTATCACTA
CAATTATCAATATGAAGCCCCCCGCAATTTCCCAGTACCAAACACCCCTCTTCGTCT
GAGCTGTCTTAATTACAGCAGTTCTACTACTTCTATCCCTCCCTGTGCTTGCCGCTG
GCATTACAATGCTTCTGACAGACCGAAATCTAAACACCACCTTCTTTGACCCTGCAG
GCGGAGGGGACCCAATCCTATACCAGCACCTCTTCTGATTCTTTGGCCACCAGAAAA
GTCTAAA

Lampiran 4. Lanjutan.

MSFUH1201_ *Eleotris fusca*_Sulawesi Barat_Indonesia
ATTGGCACCCTTTATCTTGTATTTGGTGCTTGAGCGGGCATAGTGGGCACTGCTTTA
AGCCTACTCATCCGCGCTGAACTGAGTCAACCTGGTGCCCTACTAGGAGACGACCA
AATTTACAATGTCATCGTTACGGCCCATGCCTTCGTGATGATTTTCTTTATAGTAATA
CCAATTATGATTGGTGGCTTTGGAAATTGATTAATCCCCTTAATAATTGGCGCCCCAG
ACATGGCCTTCCCACGAATAAACAACATAAGCTTCTGACTCCTCCCTCCTTCCTTTCT
CCTCCTCCTTGCCTCTTCTGGGGTCGAAGCAGGGGCTGGCACAGGATGAACCGTCT
ACCCCCCTCTGGCAGGAAACCTCGCCCACGCAGGGGCCTCTGTAGACCTAACAATT
TTCTCCCTTCACTTAGCCGGCGTGTCTTCAATTTTAGGGGCTATTAACTTTATCACTA
CAATTATCAATATGAAGCCCCCCGCAATTTCCCAGTACCAAACACCCCTCTTCGTCT
GAGCTGTCTTAATTACAGCAGTTCTACTACTTCTATCCCTCCCTGTGCTTGCCGCTG
GCATTACAATGCTTCTGACAGACCGAAATCTAAACACCACCTTCTTTGACCCTGCAG
GCGGAGGGGACCCAATCCTATACCAGCACCTCTTCTGATTCTTTGGCCACCAGAAAA
GTCTAAA

MSFUH1200_ *Eleotris fusca*_Sulawesi Barat_Indonesia
GGTGCTTGAGCGGGCATAGTGGGCACTGCTTTAAGCCTACTCATCCGCGCTGAACT
GAGTCAACCTGGTGCCCTACTAGGAGACGACCAAATTTACAATGTCATCGTTACGGC
CCATGCCTTCGTGATGATTTTCTTTATAGTAATACCAATTATGATTGGTGGCTTTGGA
AATTGATTAATCCCCTTAATAATTGGCGCCCCAGACATGGCCTTCCCACGAATAAAC
AACATAAGCTTCTGACTCCTCCCTCCTTCCTTTCTCCTCCTCCTCGCCTCTTCTGGG
GTCGAAGCAGGGGCTGGCACAGGATGAACCGTCTACCCCCCTCTGGCAGGAAACC
TCGCCCACGCAGGGGCCTCTGTAGACCTAACAATTTTCTCCCTTCACTTAGCCGGG
GTGTCTTCAATTTTAGGGGCTATTAACTTTATCACTACAATTATCAATATGAAGCCCC
CCGCAATTTCCCAGTACCAAACACCCCTCTTCGTCTGAGCTGTCTTAATTACAGCAG
TTCTACTACTTCTATCCCTTCCTGTGCTTGCCGCTGGCATTACAATGCTTCTGACAGA
CCGAAATCTAAACACCACCTTCTTTGACCCTGCAGGCGGAGGGGACCCAATCCTATA
CCAGCACCTC

MSFUH1191_ *Awaous ocellaris*_Sulawesi Barat_Indonesia
GGACACGACCAAATCTATAATGTCATTGTAACAGCACATGCATTTGTAATAATTTTCT
TTATAGTAATACCAATTATGATTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGAT
TGGTGCCCCTGACATGGCCTTCCCTCAAATAAATAACATGAGCTTTTGACTTCTCCCT
CCTTCATTCCTGCTTCTCCTAGCATCATCAGGTGTTGAAGCTGGGGCAGGGACTGGT
TGAACTGTCTACCCCCCACTAGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAAAC
CTAACAATTTTCTCACTTCACCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACT
TCATTACAACCATCCTAAATATGAAACCCCCTGCAATTTCACAATACCAAACACCCCT
GTTCGTTTGAGCCGTTCTAATCACAGCAGTCCTACTACTTCTTTCCCTACCAGGCCTT
GCTGGCTGCATTACAATGGTTCTATCACAACGCAACCTTAACACAACCTTCTCTTCCC
CCCCAGGTGGAGAAGAGCCACACCTTTATCAACACTTGATTTGAATCTTTCGGTCAC
CTGGAGTTTT

MSFUH1322_ *Awaous ocellaris*_Sulawesi Barat_Indonesia
GTTTTTTTTTGGTTTTGAACTTAGCCAACCTGGGGCTCTTTTAGGAGACGACCAAATC
TATAATGTCATTGGAACAGCACATGCATTTGTAATAATTTTCTTTATAGTAATACCAAT
TATGATTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGATTGGTGCCCCTGACAT
GGCCTTCCCTCGAATAAATAACATGAGCTTTTGACTTCTCCCTCCTTCATTCCTGCTT
CTCCTAGCATCATCAGGTGTTGAAGCTGGAGCAGGGACTGGTTGAACTGTCTACCC
CCCACTAGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAGACCTAACAATTTTCTC
ACTTCACCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACTTCATTACAACCATC
CTAAATATGAAACCCCCTGCAATTTCACAATACCAAACACCCCTGTTCGTTTGAGCC
GTTCTAATCACAGCAGTCCTACTACTTCTTTCCCTACCAGTCCTTGCTGCCGGCATTA
CAATGCTACTAACAGACCGCAACCTGAACACAACCTTCTTTGACCCCTCAGGTGGAG
GAGACCCAATCCTTTACCAACACTTGTTCTGATTCTTCGGACACCCTGAAGTGTCA

Lampiran 4. Lanjutan.

MSFUH1219_ *Awaous ocellaris*_Sulawesi Barat_Indonesia
GTTTTTTTTTGGTTTTGAACTTAGCCAACCTGGGGCTCTTTTAGGAGACGACCAAATC
TATAATGTCATTGGAACAGCACATGCATTTGTAATAATTTTCTTTATAGTAATACCAAT
TATGATTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGATTGGTGCCCCTGACAT
GGCCTTCCCTCGAATAAATAACATGAGCTTTTGACTTCTCCCTCCTTCATTCCTGCTT
CTCCTAGCATCATCAGGTGTTGAAGCTGGAGCAGGGACTGGTTGAACTGTCTACCC
CCCACTAGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAGACCTAACAATTTTCTC
ACTTCACCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACTTCATTACAACCATC
CTAAATATGAAACCCCCTGCAATTTCACAATACCAAACACCCCTGTTCGTTTGAGCC
GTTCTAATCACAGCAGTCCTACTACTTCTTTCCCTACCAGTCCTTGCTGCCGGCATTA
CAATGCTACTAACAGACCGCAACCTGAACACAACCTTCTTTGACCCCTCAGGTGGAG
GAGACCCAATCCTTTACCAACACTTGTTCTGATTCTTCGGACACCCTGAAGTGTCA

MSFUH1190_ *Awaous grammepomus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTAACTGGTTTTCGGTGCCTGAGCTGGAATAGTAGGCACAGCTCTT
AGCCTTCTTATCCGAGCTGAACTTAGCCAACCTGGGGCTCTTTTAGGAGACGACCAA
ATCTATAATGTCATTGTAACAGCACATGCATTTGTAATAATTTTCTTTATAGTAATACC
AATTATGATTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGATTGGTGCCCCTGA
CATGGCCTTCCCTCGAATGAATAACATGAGCTTTTGACTTCTCCCTCCTTCATTCCTG
CTTCTCCTAGCATCATCAGGGGTTGAAGCTGGAGCAGGGACTGGTTGAACTGTCTA
CCCCCCACTAGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAGACCTAACAATTTT
CTCACTTCACCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACTTCATTACAACC
ATCCTAAATATGAAACCCCCTGCAATTTCACAATACCAAACACCCCTGTTCGTTTGAG
CCGTTCTAATCACAGCAGTCCTACTACTTCTTTCCCTACCAGTCCTTGCTGCCGGCA
TTACAATGCTACTAACAGACCGCAACCTGAACACGACCTTCTTTGACCCGTCAGGTG
GAGGAGACCCAATCCTTTACCAACACTTGTTCTGATTCTTTGGCCACCAGAAAATTCT
TAAA

MSFUH1196_ *Awaous grammepomus*_Sulawesi Barat_Indonesia
ATTGGCACCCTATACCTGGTTTTCGGTGCCTGAGCTGGAATAGTAGGCACAGCTCTT
AGCCTTCTTATCCGAGCTGAACTTAGCCAACCTGGGGCTCTTTTAGGAGACGACCAA
ATCTATAATGTCATTGTAACAGCACATGCATTTGTAATAATTTTCTTTATAGTAATACC
AATTATGATTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGATTGGTGCCCCTGA
CATGGCCTTCCCTCGAATGAATAACATGAGCTTTTGACTTCTCCCTCCTTCATTCCTG
CTTCTCCTAGCATCATCAGGGGTTGAAGCTGGAGCAGGGACTGGTTGAACTGTCTA
CCCCCCACTAGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAGACCTAACAATTTT
CTCACTTCACCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACTTCATTACAACC
ATCCTAAATATGAAACCCCCTGCAATTTCACAATACCAAACACCCCTGTTCGTTTGAG
CCGTTCTAATCACAGCAGTCCTACTACTTCTTTCCCTACCAGTCCTTGCTGCCGGCA
TTACAATGCTACTAACAGACCGCAACCTGAACACGACCTTCTTTGACCCGTCAGGTG
GAGGAGACCCAATCCTTAACCATCCTTTGTTCTGATTCTTTGGCC

MSFUH1198_ *Awaous grammepomus*_Sulawesi Barat_Indonesia
CCTATACCTGGTTTTCGGTGCCTGAGCTGGAATAGTAGGCACAGCTCTTAGCCTTCT
AATCCGAGCTGAACTTAGCCAACCTGGGGCTCTTTTAGGAGACGACCAAATCTATAA
TGTCATTGTAACAGCACATGCATTTGTAATAATTTTCTTTATAGTAATACCAATTATGA
TTGGTGGCTTTGGGAACTGACTAATCCCCCTAATGATTGGTGCCCCTGACATGGCCT
TCCCTCGAATAAATAATATGAGCTTTTGACTTCTCCCTCCTTCATTCCTGCTTCTCCTA
GCATCATCAGGGGTTGAAGCTGGAGCAGGGACTGGTTGAACTGTCTACCCCCCACT
AGCAGGGAACCTTGCCCATGCTGGAGCTTCTGTAGACCTAACAATTTTCTCACTTCA
CCTGGCAGGTGTCTCATCAATTTTAGGTGCAATTAACTTCATTACAACCATCCTAAAT
ATGAAACCCCCTGCAATTTCACAATACCAAACACCCCTGTTCGTTTGAGCCGTTCTAA
TTACAGCAGTCCTACTACTTCTTTCCCTACCAGTCCTTGCTGCCGGCATTACAATGCT
ACTAACAGACCGCAACCTGAACACGACCTTCTTTGACCCATCAGGTGGAGGAGACC
CAATCCTTTACCAACACTTG

Lampiran 4. Lanjutan.

MSFUH1365_ *Stenogobius genivittatus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCAACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCT
AAGCCTACTAATTCGAGCTGAACTGAGTCAACCCGGGGCCCTTCTAGGGGACGACC
AGATTTATAATGTAATCGTCACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATA
CCAATCATAATTGGAGGCTTTGGAAACTGACTCATCCCACTAATGATTGGTGCCCCC
GACATGGCCTTCCCCCGAATAAACAACATGAGCTTCTGACTTCTTCCCCCCTCATTC
CTCCTCCTATTAGCATCTTCTGGTGTTGAAGCCGGGGCCGGAACTGGTTGGACTGT
CTATCCCCCCTTGGCAGGAAATCTTGCACATGCAGGAGCTTCTGTCGACCTAACAAT
TTTCTCCCTCCACCTAGCCGGAGTTTCCTCAATTTTGGGGGCAATCAACTTCATTACA
ACCATCCTAAACATGAAACCCCCTGCCATCTCTCAATATCAAACGCCTCTGTTTGTCT
GAGCCGTCCTTATTACAGCTGTTCTCCTGCTTCTCTCCCTACCAGTTCTTGCTGCTG
GCATTACAATGCTTCTTACGGACCGAAACCTTAATACAACCTTTTTCGATCCCTCAGG
TGGAGGAGATCCTATTCTCTACCAGCACCTTTTCTGATTCTTTGGCCACCAGAAAAG
TCTAAA

MSFUH1352_ *Sicyopterus longifilis*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTAACTTGGTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCT
CAGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGAGCTCTTCTAGGGGACGACC
AAATTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATAC
CAATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCTG
ATATGGCCTTTCCTCGAATAAATAACATAAGCTTTTGACTTCTCCCCCCTTCATTCCTT
CTCCTCCTAGCATCTTCTGGTGTTGAAGCAGGGGCCGGAACTGGCTGAACAGTATA
TCCTCCTCTGGCAGGAAACCTTGCACATGCAGGAGCTTCTGTTGACTTAACTATTTT
CTCCCTCCACCTGGCAGGTATTTCATCAATTCTTGGGGCAATTAATTTCATTACAACC
ATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAAACACCTCTATTTGTATGAG
CTGTTCTTATTACAGCAGTCCTCCTACTTCTCTCCCTCCCTGTCCTTGCAGCTGGCAT
TACAATGCTACTAACAGACCGAAACCTTAACACAACCTTCTTTGACCCATCAGGAGG
AGGTGACCCAATTCTCTACCAACATCTATTCTGATTCTTTGGCCACCAGAAAAGTCTA
AA

MSFUH1355_ *Sicyopterus longifilis*_Sulawesi Barat_Indonesia
ATTGGCACCCTATACCTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCTC
AGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGAGCTCTTCTAGGGGACGACCAA
ATTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATACC
AATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCTGA
TATGGCCTTTCCTCGAATAAATAACATAAGCTTTTGACTTCTCCCCCCTTCATTCCTT
CTCCTCCTAGCATCTTCTGGTGTTGAAGCAGGGGCCGGAACTGGCTGAACAGTATA
TCCTCCTCTGGCAGGAAACCTTGCACATGCAGGAGCTTCTGTTGACTTAACTATTTT
CTCCCTCCACCTGGCAGGTATTTCATCAATTCTTGGGGCAATTAATTTCATTACAACC
ATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAAACACCTCTATTTGTATGAG
CTGTTCTTATTACAGCAGTCCTCCTACTTCTCTCCCTCCCTGTCCTTGCAGCTGGCAT
TACAATGCTACTAACAGACCGAAACCTTAACACAACCTTCTTTGACCCATCAGGAGG
AGGTGACCCAATTCTCTACCAACATCTATTCTGATTCTTCGGCCACCCCG

Lampiran 4. Lanjutan.

MSFUH1311_ *Sicyopterus longifilis*_Sulawesi Barat_Indonesia
ATTGGCACCCTATACCTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCTC
AGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGAGCTCTTCTAGGGGACGACCAA
ATTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATACC
AATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCTGA
TATGGCCTTTCCTCGAATAAATAACATAAGCTTTTGACTTCTCCCCCCTTCATTCCTT
CTCCTCCTAGCATCTTCTGGTGTTGAAGCAGGGGCCGGAACTGGCTGAACAGTATA
TCCTCCTCTGGCAGGAAACCTTGCACATGCAGGAGCTTCTGTTGACTTAACTATTTT
CTCCCTCCACCTGGCAGGTATTTCATCAATTCTTGGGGCAATTAATTTCATTACAACC
ATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAAACACCTCTATTTGTATGAG
CTGTTCTTATTACAGCAGTCCTCCTACTTCTCTCCCTCCCTGTCCTTGCAGCTGGCAT
TACAATGCTACTAACAGACCGAAACCTTAACACAACCTTCTTTGACCCATCAGGAGG
AGGTGACCCAATTCTCTACCAACATCTATTCTGATTCTTCGGCCACCCCG

MSFUH1306_ *Sicyopterus cynocephalus*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGAACTGCCCTAAGCCTACT
TATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGAGACGACCAGATTTACAA
TGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATCATGA
TTGGAGGATTTGGAAACTGACTCATCCCTCTAATGATCGGTGCCCCAGATATGGCCT
TCCCCCGAATGAACAACATAAGCTTTTGACTCCTCCCCCCTTCATTCCTTCTCCTCCT
GGCATCTTCAGGTGTTGAAGCAGGGGCTGGGACTGGCTGAACAGTCTACCCCCCCTC
TAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGATCTAACTATTTTCTCCCTCC
ACCTAGCAGGTATTTCATCAATTCTTGGTGCAATTAACTTCATTACAACTATTCTAAAT
ATGAAACCTCCTGCAATTTCACAATATCAGACACCTCTCTTCGTCTGAGCTGTTCTTA
TTACGGCAGTCCTACTACTTCTTTCTCTCCCAGTTCTTGCAGCTGGCATCACAATGCT
ACTGACAGACCGAAACCTCAACACAACCTTCTTTGACCCATCAGGAGGAGGTGACC
CAATTCTCTACCAACATCTA

MSFUH1354_ *Sicyopterus cynocephalus*_Sulawesi Barat_Indonesia
GGCACCCTATACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGAACTGCCCTAAG
CCTACTTATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGAGACGACCAGA
TTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCA
ATCATGATTGGAGGATTTGGAAACTGACTCATCCCCCTAATGATCGGTGCCCCAGAT
ATGGCCTTCCCCCGAATGAACAACATAAGCTTTTGACTCCTCCCCCCTTCATTCCTTC
TCCTCCTGGCATCTTCAGGTGTTGAAGCAGGGGCTGGGACTGGCTGAACAGTCTAC
CCCCCTCTAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGACCTAACTATTTTC
TCCCTCCACCTAGCAGGTATTTCATCAATTCTTGGTGCAATTAACTTCATTACAACTA
TTCTAAATATGAAACCTCCTGCAATTTCACAATATCAGACACCTCTCTTCGTCTGAGC
TGTTCTTATTACGGCAGTCCTACTACTTCTTTCTCTCCCAGTTCTTGCAGCTGGCATC
ACAATGCTACTGACAGACCGAAACCTCAACACAACCTTCTTTGACCCATCAGGAGGA
GGTGACCCAATTCTCTACCAACATCTATTCTGATT

MSFUH1234_ *Sicyopterus cynocephalus*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGAACTGCCCTAAGCCTACT
TATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGAGACGACCAGATTTACAA
TGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATCATGA
TTGGAGGATTTGGAAACTGACTCATCCCCCTAATGATCGGTGCCCCAGATATGGCCT
TCCCCCGAATGAACAACATAAGCTTTTGACTCCTCCCCCCTTCATTCCTTCTCCTCCT
GGCATCTTCAGGTGTTGAAGCAGGGGCTGGGACTGGCTGAACAGTCTACCCCCCCTC
TAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGATCTAACTATTTTCTCCCTCC
ACCTAGCAGGTATTTCATCAATTCTTGGTGCAATTAATTTCATTACAACTATTCTAAAT
ATGAAACCTCCTGCAATTTCACAATATCAGACACCTCTCTTCGTCTGAGCTGTTCTTA
TTACGGCAGTACTACTACTTCTTTCTCTCCCAGTTCTTGCAGCTGGCATCACAATGCT
ACTGACAGACCGAAACCTCAACACAACCTTCTTTGACCCATCAGGAGGAGGTGACC
CAATTCTCTACCAACATCTA

Lampiran 4. Lanjutan.

MSFUH1310_ *Sicyopterus microcephalus*_Sulawesi Barat_Indonesia
ATTGGCACCCTATAACTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCTC
AGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGAGCTCTTCTAGGGGATGACCAA
ATTTACAATGTAATTGTTACGGCACATGCCTTTGTAATAATTTTCTTTATAGTAATACC
AATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCCGA
TATGGCCTTCCCTCGAATGAACAACATAAGCTTTTGACTCCTTCCCCCTTCATTCCTT
CTTCTTCTGGCATCTTCGGGTGTTGAAGCAGGAGCTGGAACTGGCTGAACAGTCTA
CCCCCCTCTAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGACTTAACTATTTT
CTCCCTCCATCTAGCAGGTATTTCATCAATTCTGGGTGCAATTAATTTCATTACAACC
ATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAGACACCTCTATTTGTATGAG
CTGTTCTAATTACAGCAGTTCTTCTACTTCTCTCCCTCCCTGTTCTTGCAGCTGGAAT
TACAATGCTACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCATCAGGTGG
AGGTGATCCCATTCTCTACCAACACCTATTCTGATTCTTTGGCCACCAGAAAAGTCTA
A

MSFUH868_ *Sicyopterus microcephalus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCCAACTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCT
CAGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGGGATGACC
AAATTTACAATGTAATTGTTACGGCACATGCCTTTGTAATAATTTTCTTTATAGTAATA
CCAATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCC
GATATGGCCTTCCCTCGAATGAACAACATAAGCTTTTGACTCCTTCCCCCTTCATTCC
TTCTTCTTCTGGCATCTTCGGGTGTTGAAGCAGGGGCTGGAACTGGCTGAACAGTCT
ACCCCCCTCTAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGACTTAACTATTT
TCTCCCTCCATCTAGCAGGTATTTCATCAATTCTGGGTGCAATTAATTTCATTACAAC
CATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAGACACCTCTATTTGTATGA
GCTGTTCTAATTACAGCAGTTCTCCTACTTCTCTCCCTCCCTGTTCTTGCAGCTGGAA
TTACAATGCTACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCATCAGGCG
GAGGTGATCCCATTCTCTACCAACACCTATTCTGATTCTTTGGCCACCAGAAAAGTCT
AAAA

MSFUH1385_ *Sicyopterus microcephalus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCCAACTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGGACTGCCCT
CAGCCTACTCATCCGAGCTGAATTAAGTCAACCTGGAGCTCTTCTAGGGGATGACCA
AATTTACAATGTAATTGTTACGGCACATGCCTTTGTAATAATTTTCTTTATAGTAATAC
CAATCATGATTGGAGGCTTTGGGAACTGACTTATTCCCCTAATGATCGGTGCCCCCG
ATATGGCCTTCCCTCGAATGAACAACATAAGCTTTTGACTCCTTCCCCCTTCATTCCT
TCTTCTTCTGGCATCTTCGGGTGTTGAAGCAGGGGCTGGAACTGGCTGAACAGTCT
ACCCCCCTCTAGCAGGAAACCTTGCCCATGCAGGGGCTTCTGTTGACTTAACTATTT
TCTCCCTCCATCTAGCAGGTATTTCATCAATTCTGGGTGCAATTAATTTCATTACAAC
CATCCTAAACATGAAACCCCCTGCAATTTCACAATATCAGACACCTCTATTTGTATGA
GCTGTTCTAATTACAGCAGTTCTCCTACTTCTCTCCCTCCCTGTTCTTGCAGCTGGAA
TTACAATGCTACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCATCAGGCG
GAGGTGATCCCATTCTCTACCAACACCTATTCTGATTCTTTGGCCACCAGAAAAGTCT
AAAA

Lampiran 4. Lanjutan.

MSFUH113_ *Smilosicyopus leprurus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCAATCTAATTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCT
AAGCCTACTTATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGAGACGACCA
AATTTATAATGTAATTGTTACTGCACATGCCTTTGTGATAATTTTCTTTATAGTAATAC
CAATCATGATTGGAGGCTTTGGAAACTGACTCATTCCTCTAATGATTGGTGCCCCTG
ATATAGCCTTTCCTCGCATGAACAACATAAGTTTTTGACTCCTCCCTCCCTCATTCTT
GCTCCTCCTAGCATCTTCTGGTGTTGAAGCAGGGGCTGGTACAGGCTGAACAGTAT
ACCCCCCTCTAGCTGGAAACCTTGCCCATGCTGGTGCTTCTGTTGACCTGACAATTT
TCTCCCTCCACTTAGCAGGTATTTCATCAATTTTAGGTGCAATTAATTTTATTACAACC
ATCCTCAATATAAAACCCCCTGCAATCTCACAATACCAGACACCCCTCTTTGTCTGAG
CTGTTCTTATTACAGCAGTCTTACTACTTCTCTCTCTGCCAGTCCTTGCAGCTGGCAT
TACAATGCTACTAACAGACCGAAACCTCAACACAACCTTCTTTGACCCCTCAGGTGG
TGGTGACCCGATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAAAAGTCT
AAA

MSFUH864_ *Smilosicyopus leprurus*_Sulawesi Barat_Indonesia
ATTGGCACCCTATCTAACTATTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTA
AGCCTACATTATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGAGACGACCA
AATTTATAATGTAATTGTTACTGCACATGCCTTTGTGATAATTTTCTTTATAGTAATAC
CAATCATGATTGGAGGCTTTGGAAACTGACTCATTCCTCTAATGATTGGTGCCCCTG
ATATAGCCTTTCCTCGCATGAACAACATAAGTTTTTGACTCCTCCCTCCCTCATTCTT
GCTCCTCCTAGCATCTTCTGGTGTTGAAGCAGGGGCTGGTACAGGCTGAACAGTAT
ACCCCCCTCTAGCTGGAAACCTTGCCCATGCTGGTGCTTCTGTTGACCTGACAATTT
TCTCCCTCCACTTAGCAGGTATTTCATCAATTTTAGGTGCAATTAATTTTATTACAACC
ATCCTCAATATAAAACCCCCTGCAATCTCACAATACCAGACACCCCTCTTTGTCTGAG
CTGTTCTTATTACAGCAGTCTTACTACTTCTCTCTCTGCCAGTCCTTGCAGCTGGCAT
TACAATGCTACTAACAGACCGAAACCTCAACACAACCTTCTTTGACCCCTCAGGTGG
TGGTGACCCGATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCAGAAAAATCTA
AAA

MSFUH119_ *Smilosicyopus leprurus*_Sulawesi Barat_Indonesia
ATTGGCACCCTATATCTTATTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTA
AGCCTACTTATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGAGACGACCAA
ATTTATAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATACCA
ATCATGATTGGAGGCTTTGGAAACTGACTCATTCCTCTAATGATTGGTGCCCCTGAT
ATAGCCTTTCCTCGCATGAACAACATAAGTTTTTGACTCCTCCCTCCCTCATTCTTGC
TCCTCCTAGCATCTTCTGGTGTTGAGGCAGGGGCTGGTACAGGCTGAACAGTATAC
CCCCCTCTAGCTGGAAACCTTGCCCATGCTGGTGCTTCTGTTGACCTGACAATTTTC
TCCCTCCACTTAGCAGGTATTTCCTCAATTTTAGGTGCAATTAATTTTATTACAACCAT
CCTCAATATAAAACCCCCTGCAATCTCACAATACCAGACACCCCTCTTTGTCTGAGCT
GTTCTTATTACAGCAGTCTTACTACTTCTCTCTCTGCCGGTCCTTGCAGCCGGCATTA
CAATGCTACTAACAGACCGAAACCTCAACACAACCTTCTTTGACCCCTCAGGTGGGG
GTGACCCCATTCTTTACCAACACCTGTTCTGATTCTTTGGCCACCCAGAAAGTCTAAA

Lampiran 4. Lanjutan.

MSFUH1217_ *Sicyopus auxilimentus*_Sulawesi Barat_Indonesia
ATTGGCACCCTGTACCTTTGTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCT
TAGCCTGCTTATCCGAGCTGAACTAAGTCAACCTGGAGCTCTTCTAGGGGACGACC
AAATTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATG
CCAATTATGATTGGGGGATTTGGAAACTGACTAATCCCTCTAATGATTGGCGCCCCT
GACATGGCCTTCCCTCGAATGAACAACATGAGCTTTTGACTTCTCCCCCCATCATTC
CTTCTCCTACTAGCATCCTCGGGTGTTGAAGCTGGAGCAGGAACTGGCTGAACAGT
TTACCCACCCCTAGCAGGAAACCTTGCACATGCCGGGGCTTCTGTTGACCTAACAAT
CTTCTCACTCCACTTAGCAGGTATTTCATCAATTTTAGGTGCTATTAATTTTATTACAA
CAATCCTAAACATGAAACCCCCTGCAATCTCACAATACCAGACACCACTATTTGTCTG
AGCTGTCCTCATTACAGCAGTCCTTCTGCTTCTCTCCCTACCAGTGCTTGCAGCTGG
CATCACAATGCTACTGACAGACCGAAACCTAAACACAACCTTCTTTGACCCTTCAGG
AGGAGGTGATCCAATTCTTTACCAACATCTATTCTGATTCTTTGGCCACCCAGAAAGT
CTAAA

MSFUH1265_ *Sicyopus auxilimentus*_Sulawesi Barat_Indonesia
ATTGGCACCCTGTACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCT
TAGCCTGCTTATCCGAGCTGAACTAAGTCAACCTGGAGCTCTTCTAGGGGACGACC
AAATTTACAATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATG
CCAATTATGATTGGGGGATTTGGAAACTGACTAATCCCTCTAATGATTGGCGCCCCT
GACATGGCCTTCCCTCGAATGAACAACATGAGCTTTTGACTTCTCCCCCCATCATTC
CTTCTCCTACTAGCATCCTCGGGTGTTGAAGCTGGAGCAGGAACTGGCTGAACAGT
TTACCCACCCCTAGCAGGAAACCTTGCACATGCCGGGGCTTCTGTTGACCTAACAAT
CTTCTCACTCCACTTAGCAGGTATTTCATCAATTTTAGGTGCTATTAATTTTATTACAA
CAATCCTAAACATGAAACCCCCTGCAATCTCACAATACCAGACACCACTATTTGTCTG
AGCTGTCCTCATTACAGCAGTCCTTCTGCTTCTCTCCCTACCAGTGCTTGCAGCTGG
CATCACAATGCTACTGACAGACCGAAACCTAAACACAACCTTCTTTGACCCTTCAGG
AGGAGGTGATCCAATTCTTAACCAAC

MSFUH1222_ *Sicyopus auxilimentus*_Sulawesi Barat_Indonesia
CCTGTACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTTAGCCTGC
TTATCCGAGCTGAACTAAGTCAACCTGGAGCTCTTCTAGGGGACGACCAAATTTACA
ATGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATTATG
ATTGGGGGATTTGGAAACTGACTAATCCCTCTAATGATTGGCGCCCCTGACATGGCC
TTCCCTCGAATGAACAACATGAGCTTTTGACTTCTCCCCCCATCATTCCTTCTCCTAC
TAGCATCCTCGGGTGTTGAAGCTGGAGCAGGAACTGGCTGAACAGTTTACCCACCC
CTAGCAGGAAACCTTGCACATGCCGGGGCTTCTGTTGACCTAACAATCTTCTCACTC
CACTTAGCAGGTATTTCATCAATTTTAGGTGCTATTAATTTTATTACAACAATCCTAAA
CATGAAACCCCCTGCAATCTCACAATACCAGACACCACTATTTGTCTGAGCTGTCCT
CATTACAGCAGTCCTTCTGCTTCTCTCCCTACCAGTGCTTGCAGCTGGCATCACAAT
GCTACTGACAGACCGAAACCTAAACACAACCTTCTTTGACCCTTCAGGAGGAGGTGA
TCCAATTCTTTACCAACATCTA

MSFUH1866_ *Sicyopus zosterophorus*_Sulawesi Barat_Indonesia
ATTGGCACCCCCTAACTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGCACAGCCCTA
AGCCTGCTTATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGTGACGACCAA
ATTTATAATGTTATTGTAACTGCACATGCCTTTGTGATAATTTTCTTTATAGTAATACC
AATCATAATTGGAGGCTTTGGAAACTGACTTATCCCACTAATGATTGGTGCCCCTGA
CATAGCCTTCCCTCGTATGAACAACATGAGCTTCTGGCTTCTTCCTCCCTCATTCCTG
CTCCTACTAGCATCCTCAGGTGTTGAAGCTGGAGCTGGTACTGGCTGAACAGTTTAC
CCACCCCTAGCGGGCAACCTTGCTCATGCAGGGGCTTCTGTTGACTTAACAATTTTC
TCACTCCATTTAGCAGGGATCTCTTCAATTTTAGGTGCAATTAACTTTATTACAACCAT
CCTAAACATGAAACCTCCTGCAATCTCACAATACCAAACACCATTGTTTGTCTGAGCT
GTTCTAATTACAGCAGTTCTTCTGCTTCTTTCACTACCAGTACTTGCAGCTGGCATCA
CAATGCTACTGACAGACCGAAACCTCAACACAACTTTCTTTGACCCTTCAGGCGGTG
GTGACCCAATTCTTTACCAACACCTATTCTGATTCTTTGGCCACCAGAAAAGTCTAAA

Lampiran 4. Lanjutan.

MSFUH1379_ *Sicyopus zosterophorus*_Sulawesi Barat_Indonesia
ATTGGCACCCTATACCTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGCACAGCCCTA
AGCCTGCTTATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGTGACGACCAA
ATTTATAATGTTATTGTAACTGCACATGCCTTTGTGATAATTTTCTTTATAGTAATACC
AATCATAATTGGAGGCTTTGGAAACTGACTTATCCCACTAATGATTGGTGCCCCTGA
CATAGCCTTCCCTCGTATGAACAACATGAGCTTCTGGCTTCTTCCTCCCTCATTCCTG
CTCCTACTAGCATCCTCAGGTGTTGAAGCTGGAGCTGGTACTGGCTGAACAGTTTAC
CCACCCCTAGCGGGCAACCTTGCTCATGCAGGGGCTTCTGTTGACTTAACAATTTTC
TCACTCCATTTAGCAGGGATCTCTTCAATTTTAGGTGCAATTAACTTTATTACAACCAT
CCTAAACATGAAACCTCCTGCAATCTCACAATACCAAACACCATTGTTTGTCTGAGCT
GTTCTAATTACAGCAGTTCTTCTGCTTCTTTCACTACCAGTACTTGCAGCTGGCATCA
CAATGCTACTGACAGACCGAAACCTCAACACAACTTTCTTTGACCCTTCAGGCGGTG
G

MSFUH1212_ *Sicyopus zosterophorus*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATAGTAGGCACAGCCCTAAGCCTGCT
TATCCGAGCTGAATTAAGTCAACCTGGGGCTCTTCTAGGTGATGACCAAATTTATAAT
GTTATTGTAACTGCACATGCCTTTGTGATAATTTTCTTTATAGTAATACCAATCATAAT
TGGAGGCTTTGGAAACTGACTTATCCCACTAATGATTGGTGCCCCTGACATAGCCTT
CCCTCGTATGAACAACATGAGCTTCTGGCTTCTTCCTCCCTCATTCCTGCTCCTACTA
GCATCCTCAGGTGTTGAGGCTGGAGCTGGTACTGGCTGAACAGTTTACCCACCCCT
AGCGGGCAACCTTGCTCATGCAGGGGCTTCTGTTGACTTAACAATTTTCTCACTCCA
TTTAGCAGGGATCTCTTCAATTTTAGGTGCAATTAACTTTATTACAACCATCCTAAACA
TGAAACCTCCTGCAATCTCACAATACCAAACACCATTGTTTGTCTGAGCTGTTCTAAT
TACAGCAGTTCTTCTGCTTCTTTCACTACCAGTACTTGCAGCTGGCATCACAATGCTA
CTGACAGACCGAAACCTCAACACAACTTTCTTTGACCCTTCAGGCGGTGGTGACCCA
ATTCTTTACCAACACCTA

MSFUH1259_ *Stiphodon pelewensis*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCTGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAATTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTACAA
TGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATCATGA
TTGGAGGCTTTGGAAACTGACTAATCCCACTAATGATCGGCGCCCCTGACATGGCCT
TTCCTCGAATAAATAACATGAGCTTTTGGCTTCTTCCTCCATCATTCCTTCTTCTTCTG
GCCTCCTCAGGAGTCGAAGCAGGGGCTGGAACTGGCTGAACAGTATACCCTCCACT
AGCAGGAAACCTTGCTCATGCAGGAGCTTCTGTTGATCTCACAATTTTCTCCCTTCA
CTTAGCAGGTATTTCCTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAACA
TGAAGCCCCCTGCAATTTCACAATACCAAACACCCCTGTTTGTGTGAGCTGTGCTTA
TTACAGCAGTTCTGCTTCTTCTCTCCCTCCCGGTACTTGCAGCTGGCATTACAATGC
TACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCCTCAGGAGGTGGTGACC
CAATTCTTTACCAACACCTA

MSFUH1396_ *Stiphodon pelewensis*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCTGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAATTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTACAA
TGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATCATGA
TTGGAGGCTTTGGAAACTGACTAATCCCACTAATGATCGGCGCCCCTGACATGGCCT
TTCCTCGAATAAATAACATGAGCTTTTGGCTTCTTCCTCCATCATTCCTTCTTCTTCTG
GCCTCCTCAGGAGTCGAAGCAGGGGCTGGAACTGGCTGAACAGTATACCCTCCACT
AGCAGGAAACCTTGCTCATGCAGGAGCTTCTGTTGATCTCACAATTTTCTCCCTTCA
CTTAGCAGGTATTTCCTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAACA
TGAAGCCCCCTGCAATTTCACAATACCAAACACCCCTGTTTGTGTGAGCTGTGCTTA
TTACAGCAGTTCTGCTTCTTCTCTCCCTCCCGGTACTTGCAGCTGGCATTACAATGC
TACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCCTCAGGAGGTGGTGACC
CAATTCTTTACCAACACCTA

Lampiran 4. Lanjutan.

MSFUH1225_ *Stiphodon pelewensis*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCTGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAATTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTACAA
TGTAATTGTTACTGCACATGCCTTTGTAATAATTTTCTTTATAGTAATGCCAATCATGA
TTGGAGGCTTTGGAAACTGACTAATCCCACTAATGATCGGCGCCCCTGACATGGCCT
TTCCTCGAATAAATAACATGAGCTTTTGGCTTCTTCCTCCATCATTCCTTCTTCTTCTG
GCCTCCTCAGGAGTCGAAGCAGGGGCTGGAACTGGCTGAACAGTATACCCTCCACT
AGCAGGAAACCTTGCTCATGCAGGAGCTTCTGTTGATCTCACAATTTTCTCCCTTCA
CTTAGCAGGTATTTCCTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAACA
TGAAGCCCCCTGCAATTTCACAATACCAAACACCCCTGTTTGTGTGAGCTGTGCTTA
TTACAGCAGTTCTGCTTCTTCTCTCCCTCCCGGTACTTGCAGCTGGCATTACAATGC
TACTAACAGACCGAAACCTAAACACAACCTTCTTTGACCCCTCAGGAGGTGGTGACC
CAATTCTTTACCAACACCTA

MSFUH1284_ *Stiphodon atropurpureus*_Sulawesi Barat_Indonesia
GCTTGAGCAGGAATGGTAGGCACAGCCCTTAGCCTACTCATCCGAGCTGAACTAAG
CCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTATAATGTAATTGTTACTGCACAT
GCTTTTGTAATAATTTTCTTTATAGTAATACCAATCATGATTGGAGGCTTTGGAAACTG
ACTAATCCCACTAATGATTGGTGCCCCCGACATGGCCTTTCCCCGAATAAATAATAT
GAGCTTCTGGCTGCTTCCTCCATCATTCCTTCTTCTTCTAGCCTCCTCAGGAGTTGAA
GCTGGAGCTGGAACTGGCTGAACAGTTTATCCCCCACTAGCAGGAAACCTTGCTCA
TGCAGGAGCTTCTGTTGACCTTACAATTTTCTCCCTACACTTAGCAGGTATTTCTTCA
ATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAACATGAAACCCCCTGCAATCTC
ACAATACCAAACACCCCTGTTTGTGTGAGCTGTCCTTATTACAGCAGTCCTACTGCTT
CTCTCCCTACCTGTCCTTGCAGCTGGCATTACAATGCTACTGACAGACCGAAACCTA
AACACAACCTTCTTTGATCCCTCAGGAGGTGGTGATCCAATTCTTTACCAACACCTA

MSFUH1268_ *Stiphodon semoni*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTATAA
TGTAATTGTTACTGCACATGCTTTTGTAATAATTTTCTTTATAGTAATACCAATCATGA
TTGGAGGCTTTGGGAACTGACTAATTCCCCTAATGATCGGCGCCCCTGACATGGCC
TTTCCCCGAATAAATAACATGAGCTTCTGACTGCTTCCTCCCTCATTCCTTCTTCTCC
TGGCCTCCTCAGGAGTTGAAGCTGGAGCTGGGACTGGCTGAACAGTTTACCCCCCA
CTAGCAGGAAACCTTGCCCATGCAGGAGCTTCTGTTGACCTTACAATTTTCTCCCTA
CACTTAGCAGGAATTTCTTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAA
CATGAAACCCCCTGCAATCTCACAATACCAGACACCCCTGTTTGTCTGAGCTGTCCT
TATTACAGCAGTTCTACTGCTTCTTTCTCTACCTGTTCTTGCAGCTGGCATTACAATG
CTACTAACAGATCGAAATCTAAACACAACCTTCTTTGACCCCTCAGGAGGTGGTGAC
CCAATTCTTTACCAACACCTA

MSFUH1336_ *Stiphodon semoni*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTATAA
TGTAATTGTTACTGCACATGCTTTTGTAATAATTTTCTTTATAGTAATACCAATCATGA
TTGGAGGCTTTGGGAACTGACTAATTCCCCTAATGATCGGCGCCCCTGACATGGCC
TTTCCCCGAATAAATAACATGAGCTTCTGACTGCTTCCTCCCTCATTCCTTCTTCTCC
TAGCCTCCTCAGGAGTTGAAGCTGGAGCTGGGACTGGCTGAACAGTTTACCCCCCG
CTAGCAGGAAACCTTGCCCATGCAGGAGCTTCTGTTGACCTTACAATTTTCTCCCTA
CACTTAGCAGGAATTTCTTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAA
CATGAAACCCCCTGCAATCTCACAATACCAGACACCCCTGTTTGTCTGAGCTGTCCT
TATTACAGCAGTTCTACTGCTTCTTTCTCTACCTGTTCTTGCAGCTGGCATTACAATG
CTACTAACAGATCGAAATCTAAACACAACCTTCTTTGATCCCTCAGGAGGTGGTGAC
CCAATTCTTTACCAACACCTA

Lampiran 4. Lanjutan.

MSFUH1394_ *Stiphodon semoni*_Sulawesi Barat_Indonesia
CCTATACCTTGTTTTCGGTGCCTGAGCAGGAATGGTAGGCACAGCCCTTAGCCTACT
CATCCGAGCTGAACTAAGCCAACCTGGGGCTCTTCTAGGTGACGACCAAATTTATAA
TGTAATTGTTACTGCACATGCTTTTGTAATAATTTTCTTTATAGTAATACCAATCATGA
TTGGAGGCTTTGGGAACTGACTAATTCCCCTAATGATCGGCGCCCCTGACATGGCC
TTTCCCCGAATAAATAACATGAGCTTCTGACTGCTTCCTCCCTCATTCCTTCTTCTCC
TAGCCTCCTCAGGAGTTGAAGCTGGAGCTGGGACTGGCTGAACAGTTTACCCCCCA
CTAGCAGGAAACCTTGCCCATGCAGGAGCTTCTGTTGACCTTACAATTTTCTCCCTA
CACTTAGCAGGAATTTCTTCAATTTTAGGTGCAATTAATTTTATTACAACCATTCTAAA
CATGAAACCCCCTGCAATCTCACAATACCAGACACCCCTGTTTGTCTGAGCTGTCCT
TATTACAGCAGTTCTACTGCTTCTTTCTCTACCTGTTCTTGCAGCTGGCATTACAATG
CTACTAACAGATCGAAATCTAAACACAACCTTCTTTGACCCCTCAGGAGGTGGTGAC
CCAATTCTTTACCAACACCTA