

TABLE S1 | Molecular markers selected for cross species amplification of *Piaractus brachypomus* and *P. orinoquensis*.

Species	Locus Genbank #	Primer (5' to 3')	Ta (C°)
<i>Piaractus mesopotamicus</i> (Calcagnotto <i>et al.</i> , 2001)	Pme4 AF362446	F: CATGCTGCTGCAGATTAGAC R: CGCTTGCAATTTAACGCAGT	55
	Pme5 AF362447	F: CAGAGCATCTGGAGGGACAT R: TCTGAGACACTGATATCTAAACACACA	55
	Pme20 AF362449	F: CAGAGCTTTGAGGAACACGA R: CCCATCAGTTACGGGTCATT	57
	Pme21 AF362450	F: ATAATGCTGGCGTCAGTGGT R: GGACAGCTGGTCTCAAGCTC	55
<i>Colossoma macropomum</i> (Santos <i>et al.</i> , 2009)	Cm1F7 EU6853313	F-CCTATTGTGATGGCAGAGAGAG R-CACAGACGTGTACAGCTGGTT	62
	Cm1G7 EU 685314	F-CCCAGCCTACTACAGGGTCA R-CACACATCGCTCTTCTCTCC	62
	Cm1B8 EU685316	F-CACAACCCACCTGTTTGATT R-CTAATAACAAACCTACTTCCACTTCTC	60
<i>Dloop primers</i> (Sivasundar <i>et al.</i> , 2001)	Chara_LDloop	5'CCCACCACTAACTCCCAAAG 3'	50
	Chara_RDloop	5'GGTTTTGGGGTTTGAGAGG 3'	50
	CMF2	5'CATCTGGTCTCTATTTCAGG 3'	50
	CMR2	5'GTGACCAAATGTCAGGTGGA 3'	50

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Official Journal of the
Sociedade Brasileira de Ictiologia

HOW TO CITE THIS ARTICLE

- **Escobar L MD, Farias IP, Hrbek T.** Genetic comparison of populations of *Piaractus brachypomus* and *P. orinoquensis* (Characiformes: Serrasalminae) of the Amazon and Orinoco basins. *Neotrop Ichthyol*. 2022; 20(3):e220056. <https://doi.org/10.1590/1982-0224-2022-0056>