

FishDNAIDs: DNA barcoding as a tool in the development of a detection system to four species of Characiformes of commercial importance in the Brazilian Amazon

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Table S1. Fish species of the Characiformes order used to construct the DNA barcode sequence databank (mtDNA COI) and *in vitro* tests according to their category.

Category	Species	Family	DNA sample/Voucher/Genbank ID number	N° of Samples / Sample Locations									NA	NCBI (N)	Total (N)
				Tapajós River	Xingu River	Trombetas River	Mamoré River	Jatapu River	Catalão lake	Negro River	Solimões River	Purus River			
Target	<i>Prochilodus nigricans</i> Spix & Agassiz, 1829	Prochilodontidae	68256, 68257/AECI009, FJ418758, JN007727, JN007729 to JN007734, JN032683 to JN032693, N007728						2				2	21	23
	<i>Potamorhina altamazonica</i> (Cope, 1878)	Curimatidae	9838 to 9842						5				5	0	5

	<i>Psectrogaster rutiloides</i> (Kner, 1859)	Curimatidae	68249, 68250, 68251, 68252, 68256, 68289						6				6	0	6
	<i>Triportheus angulatus</i> Spix & Agassiz, 1829	Characidae	68311, 68312, 68325/AMCC025-06, GU060427, P33149, P33150						3		2		5	2	7
Correlated	<i>Semaprochilodus insignis</i> Jardine, 1841*	Prochilodontidae	9880, 9901, P21526, / JN007735 to JN007744	3									3	11	14
	<i>Semaprochilodus taeniurus</i> (Valenciennes, 1817)*	Prochilodontidae	P21527, P21585, 9881, 9902, 9903/FJ457765, FJ457765						5				5	2	7
	<i>Potamorhina latior</i> (Spix & Agassiz, 1829)***	Curimatidae	P22868			3							3	0	3
	<i>Potamorhina pristigaster</i> (Steindachner, 1876)***	Curimatidae	P27019, P27058									2	2	0	2
	<i>Psectrogaster amazonica</i> Eigenmann & Eigenmann, 1889****	Curimatidae	P21136, 21160, 26963, INPA 41662, INPA-ICT 055621, INPA-ICT 059136									8	8	0	8

	<i>Psectrogaster ciliata</i> (Müller & Troschel, 1845)****	Curimatidae	P18086/INPA-ICT 043074							1			1	0	1
	<i>Psectrogaster essequibensis</i> (Günther, 1864)****	Curimatidae	INPA-ICT 41662									1	1	0	1
	<i>Triportheus auritus</i> (Valenciennes, 1850)**	Characidae	MF182364.1, P33144, P33146, P33147, P33148								4		4	1	5
	<i>Triportheus albus</i> Cope, 1872**	Characidae	P19785, P19786, P19796, P1997, P19798					5					5	0	5
Cofamilial	<i>Colossoma macropomum</i> (Cuvier, 1818)	Characidae	P16638, P16639/FJ418767, HQ420843 to HQ420847, JN032694 to JN032704				2						2	18	20
	<i>Brycon amazonicus</i> (Agassiz, 1829)	Characidae	P15131, P15290, P15300								3		3	0	3

<i>Brycon melanopterus</i> (Cope, 1871)	Characidae	68287, 68288, 73308/FJ978040						3				3	2	5
<i>Hoplias malabaricus</i> (Bloch, 1794)	Erythrinidae	AP011992, GU702203, HM405122HM405124, HM906018 to HM906020, HQ600825 to HQ600828, JN988907 to JN988909, JX111760 to JX111763										0	18	18
<i>Hydrolycus scomberoides</i> (Cuvier, 1819)	Cynodontidae	NC015813, AP011989,										0	2	2
<i>Gymnocorymbus thayeri</i> Eigenmann, 1908	Characidae	P26965									1	1	0	1
<i>Leporinus friderici</i> (Bloch, 1794)	Anostomidae	EU185551, EU185563, JN988986 à JN988991										0	8	8
<i>Metynnis hypsauchen</i> (Müller & Troschel, 1844)	Characidae	JQ667552										0	1	1
<i>Metynnis melanogrammus</i> (Ota, Rapp Py-Daniel & Jégu, 2016)	Characidae	P19654/P19783							2			2	0	2

<i>Moenkhausia intermedia</i> Eigenmann, 1908	Characidae	JN989045, JN989044, GU701944										0	3	3
<i>Mylossoma aureum</i> (Agassiz, 1829)	Characidae	P 26870, P26871, P26872									3	3	0	3
<i>Mylossoma duriventre</i> (Cuvier, 1818)	Characidae	HM453212										0	2	2
<i>Piaractus brachypomus</i> (Cuvier, 1818)	Characidae	9887/ FJ978042, HQ420838 to HQ420842						1				1	7	8
<i>Pygocentrus nattereri</i> Kner, 1858	Characidae	P21478/GU060427	1									1	2	3
<i>Rhaphiodon vulpinus</i> Agassiz, 1829	Cynodontidae	701532, FJ978042, GU701527 to GU701531, JN989192, HQ420838 to HQ420842										0	7	7
<i>Schizodon fastiatus</i> Spix & Agassiz, 1829	Anostomidae	FJ440621										0	2	2
<i>Chalceus erythrurus</i> (Cope, 1870)	Chalceidae	P22755			1							1	0	1
<i>Curimata inornata</i> Vari, 1989	Curimatidae	GU060426										0	2	2

<i>Curimata vittata</i> Kner, 1859	Curimatidae	P24999		1								1	0	1
<i>Serrasalmus altispinis</i> Merckx, Jégu & Santos, 2000	Characidae	P19799, P21576, P21577, P21579	2				2					4	0	4
<i>Serrasalmus rhombeus</i> (Linnaeus, 1766)	Characidae	P21575, P19438, P21578									3	3	0	3
<i>Serrasalmus elongatus</i> Kner, 1858	Characidae	P22870	1									1	0	1
Total			7	1	4	2	7	25	3	9	18	76	111	187

* *P. nigricans* correlated; ***T. angulatus* correlated, ****P. altamazonica* correlated, **** *Psectrogaster rutiloides* correlated. NA: Number of DNA barcode specimens generated and used in *in vitro* tests.