

SUPPLEMENTARY MATERIAL S3

TABLE S3 | Detailed information of variable sites of *Hyphessobrycon heterorhabdus* species-group.

	Variable Sites*															
	1	7	14	16	19	25	28	31	32	35	35	40	43	46	55	
IGTAP128-15 <i>Hyphessobrycon cantoi</i> sp. nov. [LGB P-333	A	G	C	T	T	G	G	T	T	C	T	T	T	T	T	
IGTAP040-13 <i>Hyphessobrycon cantoi</i> sp. nov. [LGB P-386	A	G	C	T	T	A	A	C	C	C	C	C	C	C	C	
IGTAP037-13 <i>Hyphessobrycon heterorhabdus</i> [LGB P-97	A	G	C	T	T	A	A	C	C	C	C	C	C	C	C	
IGTAP078-14 <i>Hyphessobrycon ericae</i> [LGB#P-138	G	A	C	T	T	C	A	C	T	T	T	T	C	C	C	
IGTAP070-14 <i>Hyphessobrycon ericae</i> [LGB#P-130	G	A	C	T	T	C	A	C	T	T	T	T	C	C	C	
IGTAP073-14 <i>Hyphessobrycon ericae</i> [LGB#P-133	G	A	C	T	T	C	A	C	T	T	T	T	C	C	C	
IGTAP143-15 <i>Hyphessobrycon ericae</i> [LGB#P-143	G	A	G	T	T	C	A	C	T	T	T	T	C	C	C	
IGTAP081-14 <i>Hyphessobrycon ericae</i> [LGB#P-141	G	A	C	T	T	C	A	C	T	T	T	T	C	C	C	
BHYP42412 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43765 Para	A	G	C	C	C	A	A	C	T	C	C	C	C	C	C	
BHYP42512 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43766 Para	A	G	C	C	C	A	A	C	T	C	C	C	C	C	C	
BHYP42712 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43768 Para	A	G	C	C	C	A	A	C	T	C	C	C	C	C	C	
BHYP44912 <i>Hyphessobrycon heterorhabdus</i> LBPV 9451 45138 45138 Para	A	G	C	C	C	A	A	C	T	C	C	C	C	C	C	
	58	61	64	67	73	76	79	88	91	97	103	109	112	115	121	
T	G	G	A	A	T	T	A	C	C	T	C	C	G	G	T	
T	G	T	A	A	T	A	A	C	C	A	C	C	A	G	T	
C	A	T	A	T	A	A	A	C	C	A	C	C	A	G	T	
C	A	C	C	C	C	C	A	C	T	T	A	G	G	G	G	
C	A	C	C	C	C	C	A	C	T	T	A	G	G	G	G	
C	A	C	C	C	C	C	A	C	T	T	A	G	G	G	G	
T	G	A	G	T	A	G	T	C	G	T	T	A	A	A	T	
T	G	A	G	T	A	G	T	C	G	T	T	A	A	G	T	
T	G	A	G	T	A	G	T	C	G	T	T	A	A	G	T	
	124	130	133	139	140	142	145	146	154	157	163	166	169	172	175	
G	T	C	A	C	A	C	A	C	T	A	T	G	C	C	T	
A	T	T	G	C	C	A	T	C	T	C	T	G	C	T	C	
A	C	T	G	T	C	T	C	C	G	C	C	G	C	C	C	
A	C	T	G	T	C	T	C	C	C	G	C	G	C	C	C	
A	C	T	G	T	C	T	C	C	C	G	C	G	C	C	C	
A	C	T	G	T	C	T	C	C	C	G	C	G	C	C	C	
G	T	T	G	C	A	T	T	T	T	C	T	A	T	T	C	
G	T	T	G	C	A	T	T	T	T	C	T	A	T	T	C	
A	T	T	G	C	A	T	T	T	T	C	T	A	T	T	C	
	178	184	190	199	202	208	214	220	229	235	241	244	247	250	253	
A	T	C	G	G	A	A	C	C	A	T	T	T	T	A	T	
A	T	C	A	T	A	A	C	C	A	T	G	T	A	T	G	
A	C	C	A	T	A	C	C	C	A	T	G	T	A	T	G	
A	C	T	G	C	G	T	T	A	G	C	A	A	G	A	G	
A	C	T	G	C	G	T	T	A	G	C	A	A	G	A	G	
A	C	T	G	C	G	T	T	A	G	C	A	A	G	A	G	
A	T	C	A	C	T	C	C	A	T	G	T	G	T	A	A	
A	T	C	A	C	T	C	C	A	T	G	T	G	T	A	A	
G	T	C	A	T	T	T	C	C	A	T	G	T	G	T	A	
	253	256	259	265	268	271	286	289	307	310	313	316	319	325	326	
G	T	A	A	G	A	C	C	T	T	A	C	C	T	T	C	
G	C	A	A	A	A	C	C	T	T	G	T	T	T	T	C	
G	C	A	A	A	A	C	T	C	A	G	C	T	C	C	T	
G	C	T	G	A	C	T	C	A	G	C	T	C	C	C	T	
G	C	T	G	G	C	T	C	A	G	C	T	C	C	C	T	
G	C	T	G	G	C	T	C	A	G	C	T	C	C	C	T	
G	C	T	G	G	C	T	C	A	G	C	T	C	C	C	T	
A	C	A	A	A	T	T	T	T	T	G	C	C	T	T	C	
A	C	A	A	A	T	T	T	T	T	G	C	C	T	T	C	
A	C	A	T	A	T	T	T	T	T	G	C	C	T	T	C	
A	C	A	A	A	A	C	T	T	T	G	C	C	T	T	C	
	331	334	337	343	349	352	356	358	373	388	397	400	403	406	412	
C	C	C	G	A	A	G	T	G	T	T	T	C	C	A	A	
C	C	C	G	A	A	G	T	G	T	T	T	C	C	A	A	
C	C	C	G	A	A	G	T	G	T	T	T	C	C	A	A	
T	T	G	A	T	G	C	C	A	C	T	T	C	A	C	A	
T	T	A	A	T	G	C	C	A	C	T	T	T	A	C	A	
T	T	A	A	T	G	C	C	A	C	T	T	T	A	C	A	
T	T	A	A	T	G	C	C	A	C	T	T	T	A	C	A	
C	C	C	G	A	A	C	G	T	C	T	C	T	C	A	G	
C	C	C	G	A	A	C	G	T	C	T	C	T	C	A	G	
C	C	C	G	A	A	C	G	T	C	T	C	T	C	A	G	
	427	433	445	448	451	457	458	460	463	472	481	484	487	490	493	
G	T	A	G	A	A	T	A	A	A	T	C	A	A	A	T	
G	T	C	A	A	G	C	A	G	A	T	C	A	A	A	T	
A	T	A	A	T	C	C	G	A	G	T	T	A	C	C	C	
A	T	A	A	T	C	C	G	A	G	T	T	A	C	C	C	
A	T	A	A	T	C	C	G	A	G	T	T	A	C	C	C	
A	T	A	A	T	C	C	G	A	G	T	T	A	C	C	C	
A	T	A	A	T	C	C	G	A	G	T	T	A	C	C	C	
G	T	C	A	A	T	C	G	A	G	C	C	A	A	C	C	
G	T	C	A	G	C	G	A	G	C	C	C	A	A	G	T	
G	T	C	A	G	C	G	A	G	C	C	C	A	A	G	T	
G	T	C	A	G	C	G	A	G	C	C	C	A	A	G	T	

*red numbers: parsimony informative sites

TABLE S3 | (Continued)

	Variable Sites*															
	496	502	511	514	520	526	535	544	550	559	565	568	571	574	580	
IGTAP128-15 <i>Hyphessobrycon cantoi</i> sp. nov. LGB P-333	G	C	T	C	T	C	T	C	T	C	G	C	T	T	T	
IGTAP040-13 <i>Hyphessobrycon cantoi</i> sp. nov. LGB P-386	A	C	T	C	T	T	T	T	C	C	G	T	T	C	T	
IGTAP037-13 <i>Hyphessobrycon heterorhabdus</i> LGB P-97	A	C	T	C	T	T	T	T	C	C	G	T	T	C	T	
IGTAP078-14 <i>Hyphessobrycon ericae</i> LGB#P-130	A	T	C	C	A	C	A	T	T	T	A	T	C	T	C	
IGTAP070-14 <i>Hyphessobrycon ericae</i> LGB#P-130	A	T	C	C	A	C	A	T	T	T	A	T	C	T	C	
IGTAP073-14 <i>Hyphessobrycon ericae</i> LGB#P-133	A	T	C	C	A	C	A	T	T	T	A	T	C	T	C	
IGTAP143-15 <i>Hyphessobrycon ericae</i> LGB#P-143	A	T	C	C	A	C	A	T	T	T	A	T	C	T	C	
IGTAP081-14 <i>Hyphessobrycon ericae</i> LGB#P-141	A	T	C	C	A	C	A	T	T	T	A	T	C	T	C	
BHYP42412 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43765 43765 Para	A	T	C	C	A	C	A	T	T	T	G	T	C	T	C	
BHYP42512 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43766 43766 Para	A	C	T	T	T	T	T	T	C	T	G	T	C	C	T	
BHYP42712 <i>Hyphessobrycon heterorhabdus</i> LBPV 9287 43768 43768 Para	A	C	T	T	T	T	T	T	C	T	G	T	C	C	T	
BHYP44912 <i>Hyphessobrycon heterorhabdus</i> LBPV 9451 45138 45138 Para	A	C	T	T	T	T	T	T	C	T	G	T	C	C	T	

*red numbers: parsimony informative sites

583	586
A	C
T	C
T	C
T	T
T	T
T	T
T	T
T	T
C	C
C	C
C	C
C	C



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- Faria TC, Guimarães KLA, Rodrigues LRR, Oliveira C, Lima FCT. A new *Hyphessobrycon* (Characiformes: Characidae) of the *Hyphessobrycon heterorhabdus* species-group from the lower Amazon basin, Brazil. *Neotrop Ichthyol.* 2021; 19(1):e200102. <https://doi.org/10.1590/1982-0224-2020-0102>