

SUPPLEMENTARY MATERIAL

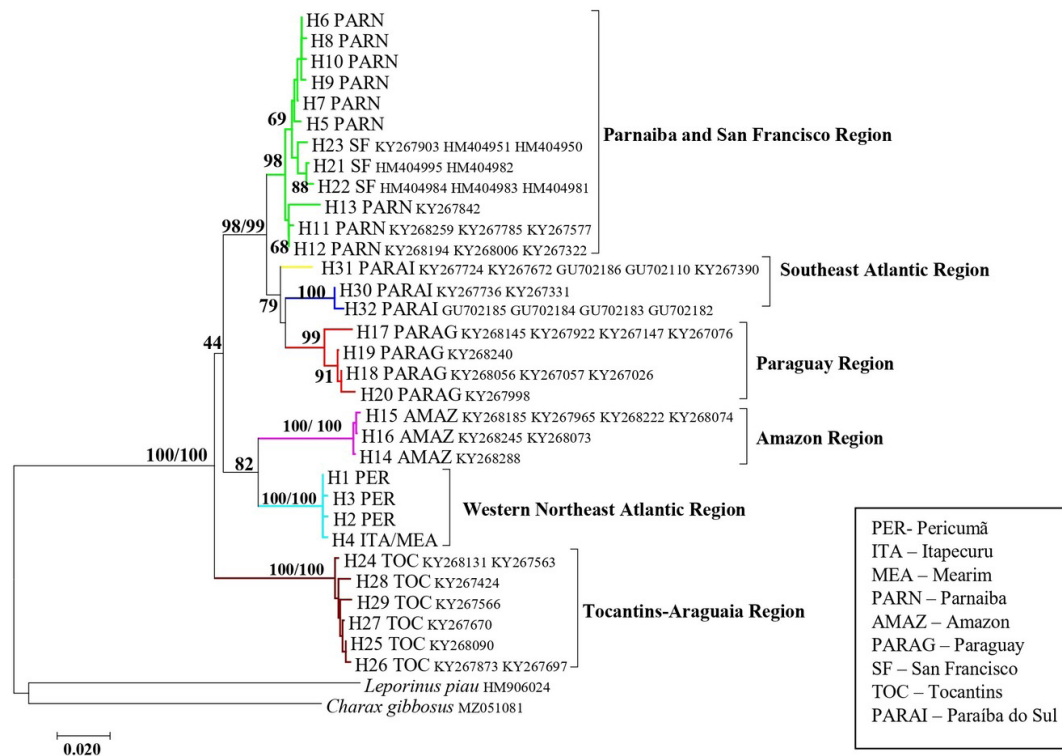
Table S1. Geographical coordinates of the formed haplotypes and molecular identification of *A. bimaculatus* through comparisons with sequences available on the BOLDSystems platform.

Number of Haplotypes	Frequency	Hidrografic Basin / Genbank Access Code	Geographical Coordinates	Morphological Identification	Identification BOLDSystems	Similarity (%)	References
H1	16	Pericumã	02°30'42.99" S 45°03'54.19" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Present study
H2	2	Pericumã	02°30'42.99" S 45°03'54.19" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.83	
H3	1	Pericumã	02°30'42.99" S 45°03'54.19" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.83	
H4	19	Mearim/ Itapecuru	3°36'07.12" S 45°20'15.83" W 5°07'28.58" S e 43°32'04.22" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.83	
H5	2	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	Present study
H6	5	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H7	1	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H8	1	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H9	2	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H10	1	Parnaíba	3°29'26.7" S 42°32'02.0" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H11*	3	Parnaíba/KY268259_KY267785_KY267577	9°07'46.45" S 45°55'46.07" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Rossini et al. (2016)
H12*	3	Parnaíba/KY268194_KY268006	9°07'46.45" S 45°55'46.07" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H13*	1	Parnaíba/KY267842	9°07'46.45" S 45°55'46.07" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H14*	1	Amazon/KY268288	0°55'58.8" S 52°32'31.2" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Rossini et al. (2016)
H15*	4	Amazon/KY268185_KY267965_KY268222_KY268074	0°55'58.8" S 52°32'31.2" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H16*	2	Amazon/KY268245_KY268073	0°55'58.8" S 52°32'31.2" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.34	
H17*	4	Paraguay/KY268145_KY267922_KY26717_KY267076	18°30'48.44" S 54°45'30.27" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Rossini et al. (2016)
H18*	3	Paraguay/KY268056_KY267057_KY26706	18°30'48.44" S 54°45'30.27" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.84	
H19*	1	Paraguay/KY268240	15°55'05.32" S 56°04'53.73" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H20*	1	Paraguay/KY267998	19°34'33.6" S 56°14'49.2" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H21*	2	San Francisco/HM404995_HM404982	19°37'22.9" S 44°29'37.3" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.66	Carvalho et al. (2011)
H22*	3	San Francisco/HM404984_HM404983_HM404981	19°37'22.9" S 44°29'37.3" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.66	
H23*	3	San Francisco/KY267903_HM404951_HM404950	17°57'36.35" S 45°42'15.82" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	99.67	

Table S1. Continuation.

H24*	2	Tocantins/KY268131_ KY267563	15°34'07.9"S 47°17'59.2"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Rossini et al. (2016)
H25*	1	Tocantins/KY268090	10°08'36.5"S 48°22'02.7"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H26*	2	Tocantins/KY267873_ KY267697	10°08'36.5"S 48°22'02.7"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H27*	1	Tocantins/KY267670	10°08'36.5"S 48°22'02.7"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H29*	1	Tocantins/KY267566	13°23'51.63" S 46°18'50.41" W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H30*	2	Paraíba do Sul/ KY267736 _KY267331	22°01'21.6"S 43°10'08.1"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	Pereira et al. (2011)
H31*	5	Paraíba do Sul/KY267724_ KY267672_ GU702186_ GU702110	22°00'00.0"S 41°19'58.8"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	
H32*	4	Paraíba do Sul/GU702185_ GU702184_ GU702183_GU702182	23°22'08.4"S 46°01'26.4"W	<i>A. bimaculatus</i>	<i>A. bimaculatus</i>	100	

*Sequences from GenBank.

**Figure S1.** Tree obtained through Neighbor-Joining (NJ) and Maximum Likelihood (ML) methods with 1000 bootstrap replicates for the COI gene of *Astyanax bimaculatus*, using the Hasegawa-Kishino-Yano (HKY+G) model.