Table S1. Sequences produced in this study. BINS with * represent new public BINS to BOLD.

Identification	Sample ID	Process ID	BIN
Artibeus (Dermanura) anderseni	JFD_01228	MACAU043-19	BOLD:ADZ9406*
Artibeus (Dermanura) anderseni	JFD_01247	MACAU044-19	BOLD:ADZ9406*
Artibeus (Dermanura) anderseni	JFD_01276	MACAU045-19	BOLD:ADZ9406*
Artibeus (Dermanura) anderseni	JFD_01284	MACAU046-19	BOLD:ADZ9406*
Artibeus (Dermanura) anderseni	JFD_01303	MACAU047-19	BOLD:ADZ9406*
Artibeus lituratus	JFD_01279	MACAU055-19	BOLD:AAA0874
Artibeus lituratus	JFD_01280	MACAU056-19	BOLD:AAA0874
Artibeus planirostris	JFD_01246	MACAU048-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01252	MACAU049-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01254	MACAU050-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01255	MACAU051-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01266	MACAU052-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01272	MACAU053-19	BOLD:ABZ9500
Artibeus planirostris	JFD_01273	MACAU054-19	BOLD:ABZ9500
Caluromys lanatus	JFD_01290	MACAU001-19	BOLD:ABY0655
Carollia castanea	JFD_01281	MACAU063-19	
Carollia castanea	JFD_01300	MACAU064-19	
Carollia castanea	JFD_01301	MACAU067-19	
Carollia perspicillata	JFD_01224	MACAU057-19	BOLD:AAA0002
Carollia perspicillata	JFD_01229	MACAU058-19	BOLD:AAA0002
Carollia perspicillata	JFD_01234	MACAU059-19	BOLD:AAA0002
Carollia perspicillata	JFD_01250	MACAU060-19	BOLD:AAA0002
Carollia perspicillata	JFD_01275	MACAU061-19	BOLD:AAA0002
Carollia perspicillata	JFD_01319	MACAU062-19	BOLD:AAA0002
Carollia perspicillata	JFD_01274	MACAU065-19	
Carollia perspicillata	JFD_01221	MACAU066-19	
Chiroderma sp.	JFD_01230	MACAU010-19	BOLD:ADZ8446*
Chiroderma sp.	JFD_01267	MACAU022-19	

Chiroderma villosum	JFD_01245	MACAU015-19	BOLD:AAA4283
Chiroderma villosum	JFD_01248	MACAU016-19	BOLD:AAA4283
Chiroderma villosum	JFD_01256	MACAU017-19	BOLD:AAA4283
Chiroderma villosum	JFD_01257	MACAU018-19	BOLD:AAA4283
Chiroderma villosum	JFD_01264	MACAU021-19	BOLD:AAA4283
Desmodus rotundus	JFD_01288	MACAU027-19	BOLD:AEA2946*
Desmodus rotundus	JFD_01289	MACAU028-19	BOLD:AEA2946*
Desmodus rotundus	JFD_01304	MACAU036-19	BOLD:AEA2946*
Didelphis marsupialis	JFD_01318	MACAU042-19	BOLD:AAA7109
Gardnerycteris crenulatum	JFD_01298	MACAU033-19	BOLD:AEA3129*
Lophostoma occidentalis	JFD_01286	MACAU026-19	BOLD:ADR4528*
Lophostoma occidentalis	JFD_01291	MACAU029-19	BOLD:ADR4528*
Lophostoma occidentalis	JFD_01299	MACAU034-19	
Marmosa (Exulomarmosa) isthmica	JFD_01237	MACAU012-19	BOLD:ADK5609*
Marmosa (Exulomarmosa) isthmica	JFD_01262	MACAU019-19	BOLD:ADK5609*
Marmosa (Exulomarmosa) isthmica	JFD_01263	MACAU020-19	BOLD:ADK5609*
Marmosa (Exulomarmosa) isthmica	JFD_01293	MACAU030-19	BOLD:ADK5609*
Marmosa (Exulomarmosa) isthmica	JFD_01294	MACAU031-19	BOLD:ADK5609*
Marmosa (Exulomarmosa) isthmica	JFD_01296	MACAU032-19	BOLD:ADK5609*
Micronycteris megalotis	JFD_01311	MACAU037-19	BOLD:AAA6107
Molossops temminckii	JFD_01220	MACAU005-19	BOLD:AEA3427*
Molossus molossus	JFD_01217	MACAU002-19	BOLD:AAA2454
Molossus rufus	JFD_01225	MACAU007-19	BOLD:ADK2184
Molossus rufus	JFD_01227	MACAU009-19	BOLD:ADK2184
Molossus rufus	JFD_01231	MACAU011-19	BOLD:ADK2184
Molossus rufus	JFD_01315	MACAU039-19	BOLD:ADK2184
Molossus rufus	JFD_01317	MACAU041-19	BOLD:ADK2184
Molossus sp.	JFD_01226	MACAU008-19	BOLD:AAA2454
Molossus sp.	JFD_01314	MACAU038-19	BOLD:AAA2454
Molossus sp.	JFD_01316	MACAU040-19	BOLD:AAA2454
Myotis sp.	JFD_01308	MACAU070-19	BOLD:AEA0898*

Myotis sp.	JFD_01309	MACAU071-19	BOLD:AEA0898*
Myotis sp.	JFD_01310	MACAU072-19	BOLD:AEA0898*
Myotis sp.	JFD_01312	MACAU073-19	BOLD:AEA0898*
Notosciurus granatensis	JFD_01307	MACAU081-19	BOLD:ADZ8687*
Phyllostomus hastatus	JFD_01222	MACAU006-19	
Platyrrhinus helleri	JFD_01218	MACAU003-19	BOLD:AAA2242
Platyrrhinus helleri	JFD_01243	MACAU014-19	BOLD:AAA2242
Platyrrhinus helleri	JFD_01268	MACAU023-19	BOLD:AAA2242
Platyrrhinus helleri	JFD_01278	MACAU024-19	BOLD:AAA2242
Proechimys semispinosus	JFD_01235	MACAU074-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01236	MACAU075-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01271	MACAU076-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01297	MACAU077-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01306	MACAU078-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01320	MACAU079-19	BOLD:ADR6889*
Proechimys semispinosus	JFD_01321	MACAU080-19	BOLD:ADR6889*
Uroderma convexum	JFD_01219	MACAU004-19	BOLD:AAA2524
Uroderma convexum	JFD_01240	MACAU013-19	BOLD:AAA2524
Uroderma convexum	JFD_01285	MACAU025-19	BOLD:AAA2524
Uroderma convexum	JFD_01302	MACAU035-19	BOLD:AAA2524
Vampyressa thyone	JFD_01287	MACAU068-19	BOLD:AAA6871
Vampyressa thyone	JFD_01292	MACAU069-19	BOLD:AAA6871

Table S2. PCR protocol and reagents.

Gene:taxa	Reagents concentrations	Thermocycler profile
COI	MgCl2: 2mM, Buffer PCR 10x with KCl: 1X, Primers: 0.14 (each cocktail), dNTP: 0.2 mM, Taq: 1U, DNA template: 100 ng/ul	95ºC - 2min **28 cycles of** 95ºC - 30s 52ºC - 40s 72ºC - 1min **Final extension:**

		72ºC - 10min
CYTB:Chiroptera	MgCl2: 1.4mM, Buffer PCR 10x with KCl: 1X, Primers: 0.06, dNTP: 0.14 mM, Taq: 2U, DNA template: 100 ng/ul	95ºC - 2min **5 cycles of** 95ºC - 30s 54ºC - 40s 72ºC - 1min **5 cycles of** 95ºC - 30s 59ºC - 40s 72ºC - 1min **25 cycles of** 95ºC - 30s 61ºC - 40s 72ºC - 1min **Final extension:** 72ºC - 10min
CYTB:Didelphidae	MgCl2: 1.78mM, Buffer PCR 10x with KCl: 0.5X, Primers: 0.03, dNTP: 0.05 mM, Taq: 1.5U, DNA template: 100 ng/ul	94ºC - 2min **32 cycles of** 94ºC - 15s 48ºC - 20s 72ºC - 1min **Final extension:** 72ºC - 10min
CYTB:Rodentia	MgCl2: 1.78mM, Buffer PCR 10x with KCl: 0.57X, Primers: 0.03, dNTP: 0.05 mM, Taq: 1.5U, DNA template: 100 ng/ul	95ºC - 2min **32 cycles of** 95ºC - 30s 50ºC - 30s 72ºC - 1min **Final extension:** 72ºC - 10min

Table S3. Scientific papers published for Colombia using DNA barcoding by taxa studied.

Class	Reference
Actinopterygii	(Machado et al. 2017)
Actinopterygii	(Mesa-S et al. 2018)
Actinopterygii	(Salinas et al. 2014)
Amphibia	(García-R et al. 2012)
Amphibia	(Guarnizo et al. 2015)
Amphibia	(Márquez et al. 2012)
Amphibia	(Pinto-Sánchez et al. 2012)
Aves	(Mendoza et al. 2016)
Blastocystae	(Ramírez et al. 2014)
Eurotiomycetes	(Yilmaz et al. 2016)
Gastropoda	(Correa et al. 2011)
Insecta	(Ahumada et al. 2016)
Insecta	(Brehm 2018)
Insecta	(Buenaventura et al. 2018)
Insecta	(Carrero-Sarmiento and Hoyos-López 2018)
Insecta	(Davis and Wagner 2011)
Insecta	(Decaëns and Rougerie 2008)
Insecta	(Diaz et al. 2015)
Insecta	(Giraldo and Uribe 2012)
Insecta	(Gómez et al. 2013)
Insecta	(González et al. 2018)
Insecta	(González et al. 2010)
Insecta	(Gunawardana et al. 2017)
Insecta	(Gutiérrez et al. 2014)
Insecta	(Hoyos-L. et al. 2012)
Insecta	(Hoyos-López et al. 2015)
Insecta	(López-Rubio et al. 2016)
Insecta	(Mengual and Thompson 2008)
Insecta	(Naranjo-Díaz et al. 2014)
Insecta	(Prieto et al. 2016)
Insecta	(Pyrcz et al. 2016)
Insecta	(Romero-Ricardo et al. 2016)
Insecta	(Rosero et al. 2012)
Insecta	(Rozo-Lopez and Mengual 2015)
Insecta	(Ruiz et al. 2010)

Insecta	(Ruiz-Lopez et al. 2012)
Insecta	(Ruiz-Lopez et al. 2013)
Insecta	(Sánchez Herrera et al. 2010)
Insecta	(Solano et al. 2013)
Insecta	(Velasco-Cuervo et al. 2016)
Insecta	(Yusseff-Vanegas and Agnarsson 2017)
Insecta	(Zamora-Delgado et al. 2015)
Lecanoromycetes	(Moncada et al. 2014)
Reptilia	(Daza-Criado and Hernández-Fernández 2014)
Saccharomycetes	(Parra-Giraldo et al. 2018)
Sordariomycetes	(López-Quintero et al. 2013)
Symphyla	(Salazar-Moncada et al. 2015)

Table S3. List of COI sequences used as in-groups and out-groups in alignments and Maximum Likelihood trees.

See attachment *Table_S3_COI .csv*

Table S4. List of CYTB sequences used as in-groups and out-groups in alignments and Maximum Likelihood trees.

See attachment *Table_S4_CYTB.csv*

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Figure S1A. Maximum likelihood topology of CYTB sequences of the genus *Caluromys*. Red terminals are sequences generated in this report.

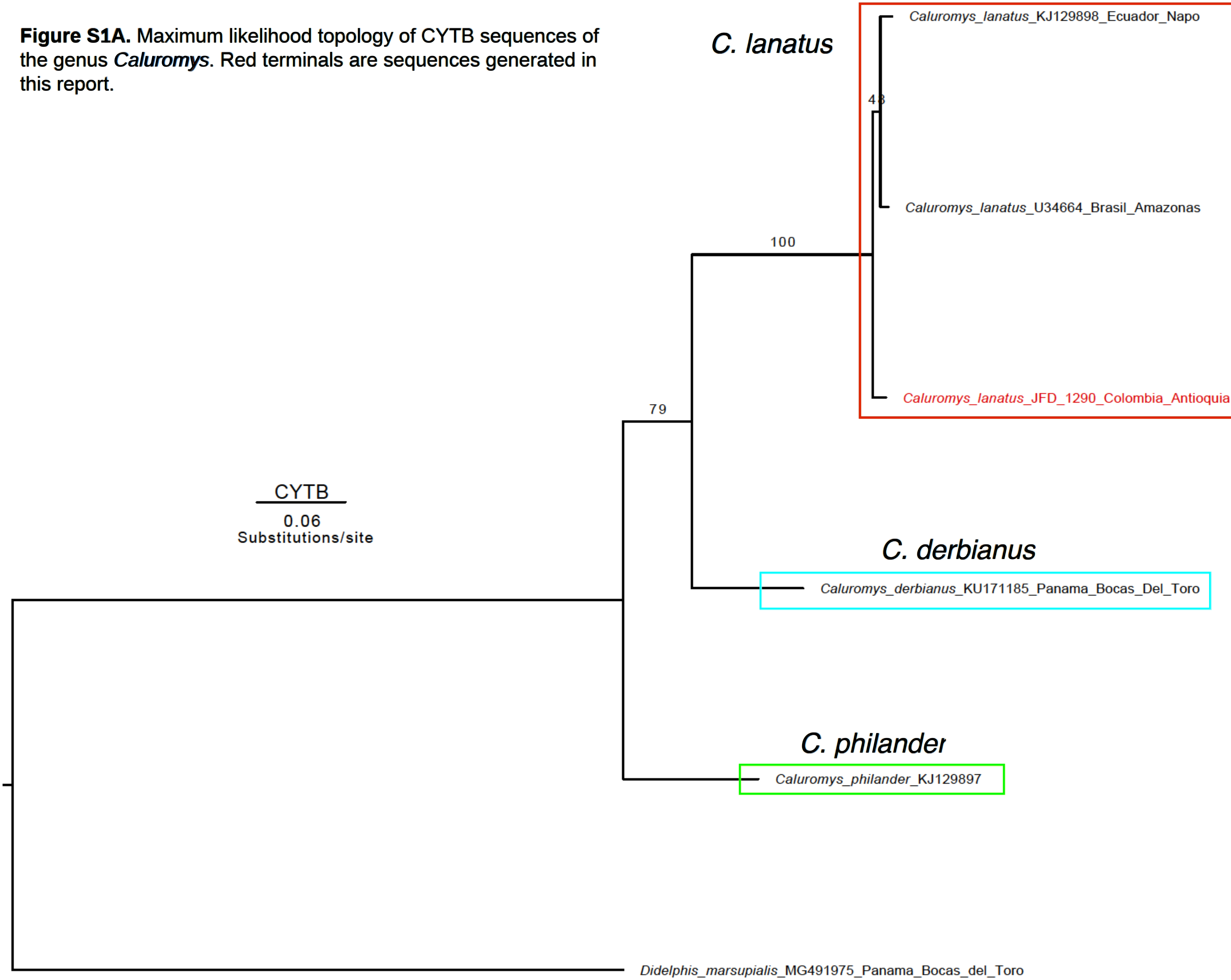


Figure S1B. Maximum likelihood topology of COI sequences of the genus *Caluromys*. Red terminals are sequences generated in this report.

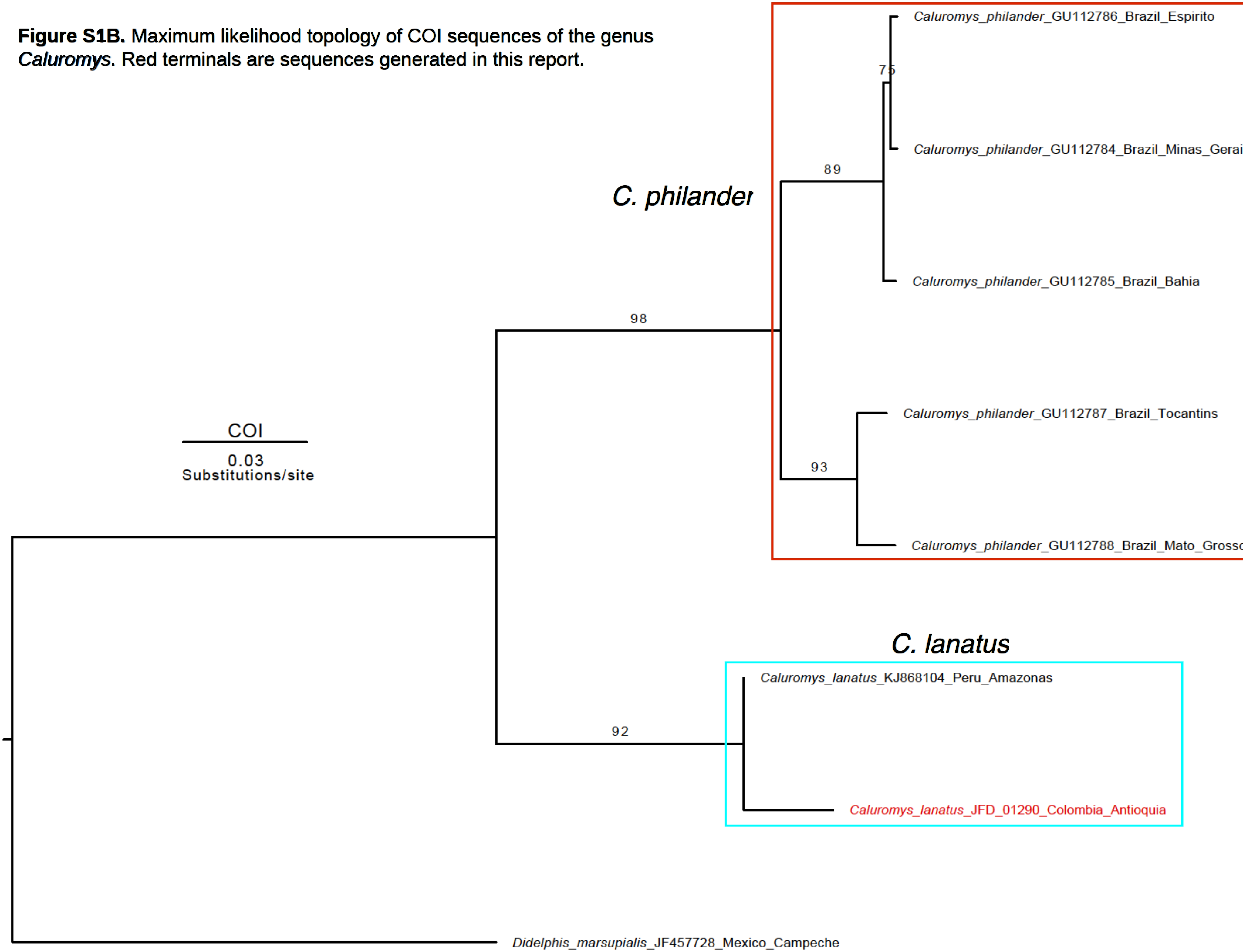


Figure S2A. Maximum likelihood topology of COI sequences of the genus *Didelphis.* Red terminals are sequences generated in this report.

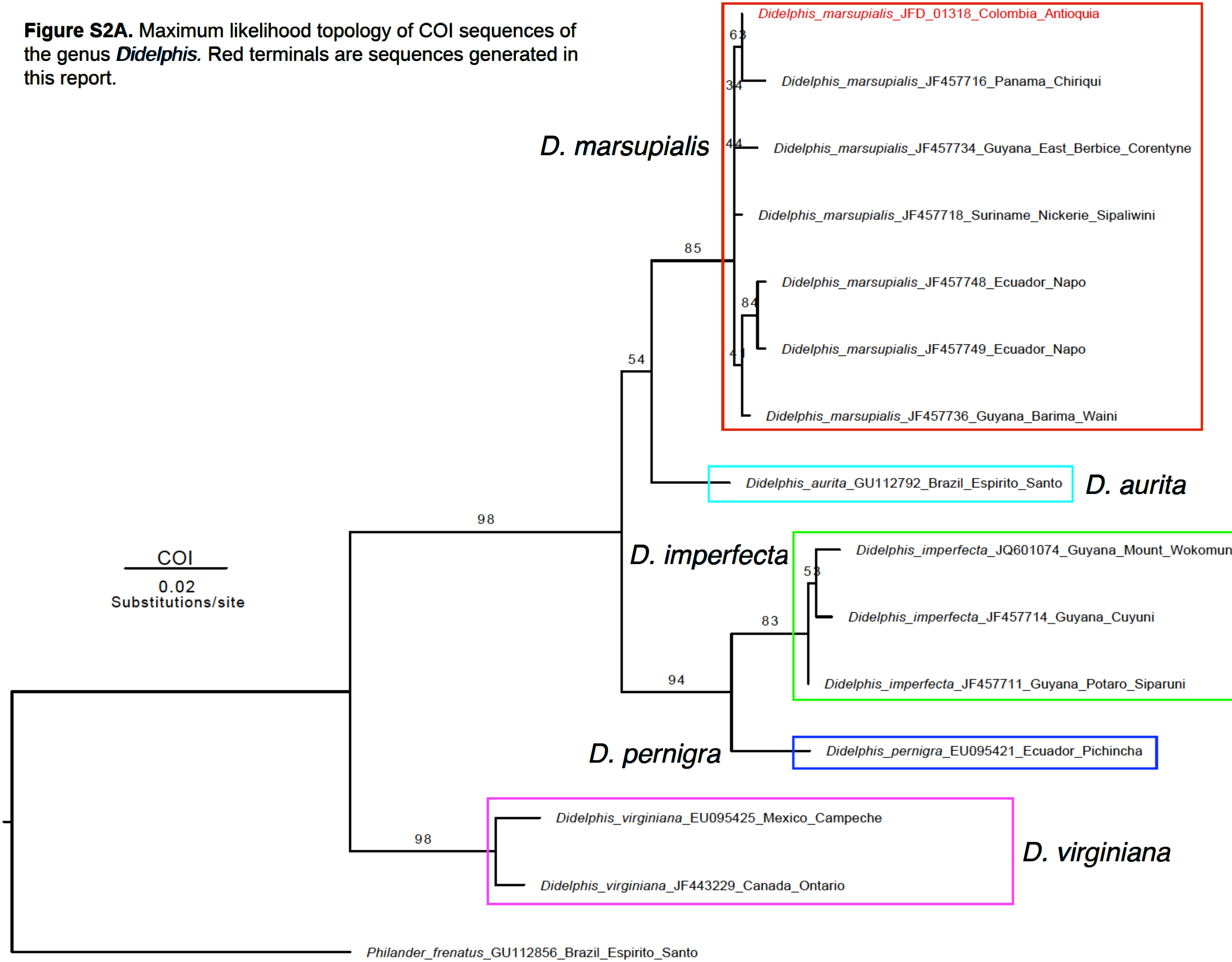


Figure S3A. Maximum likelihood topology of CYTB sequences of the genus ***Marmosa***. Red terminals are sequences generated in this report.

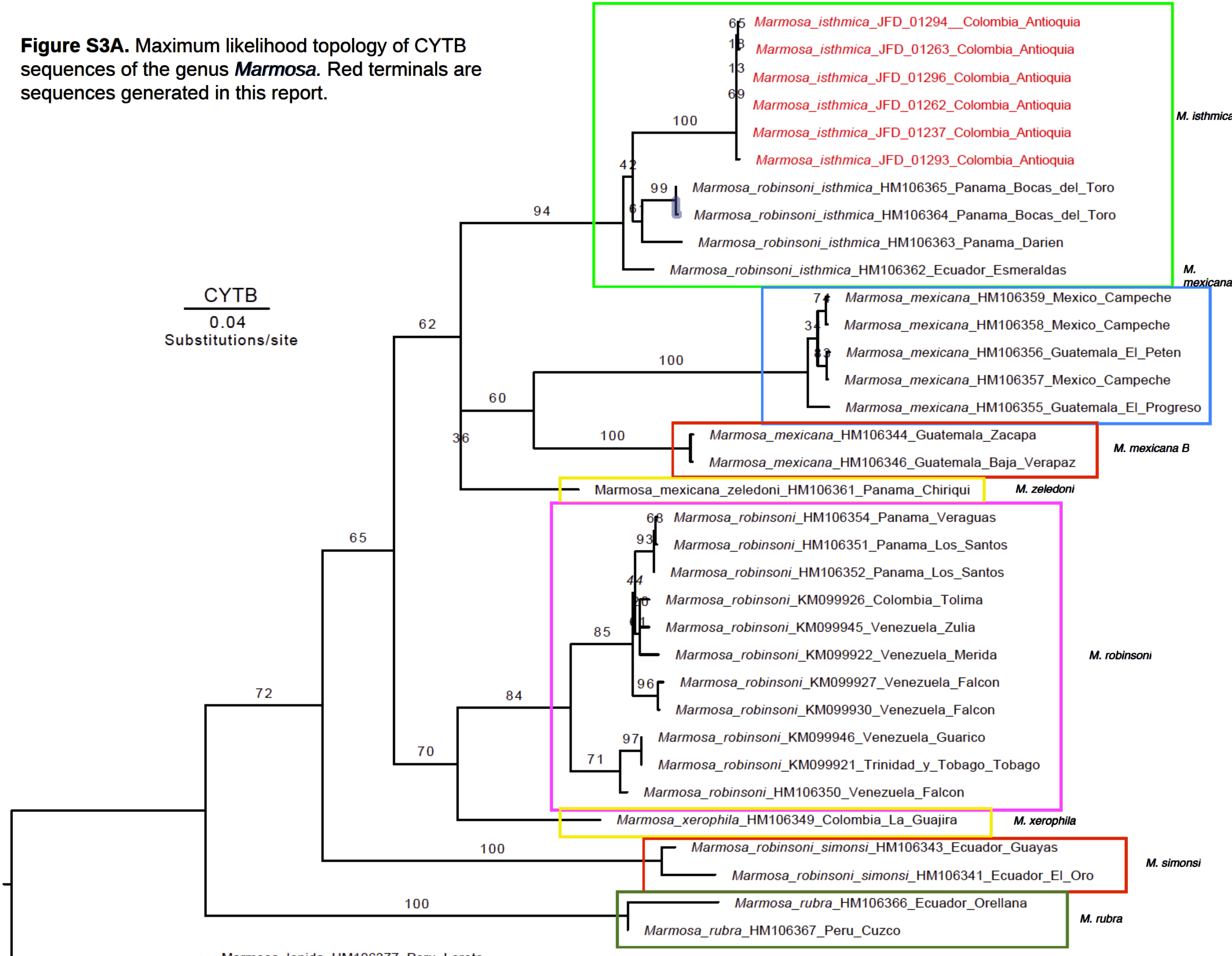


Figure S3B. Maximum likelihood topology of COI sequences of the genus *Marmosa.* Red terminals are sequences generated in this report.

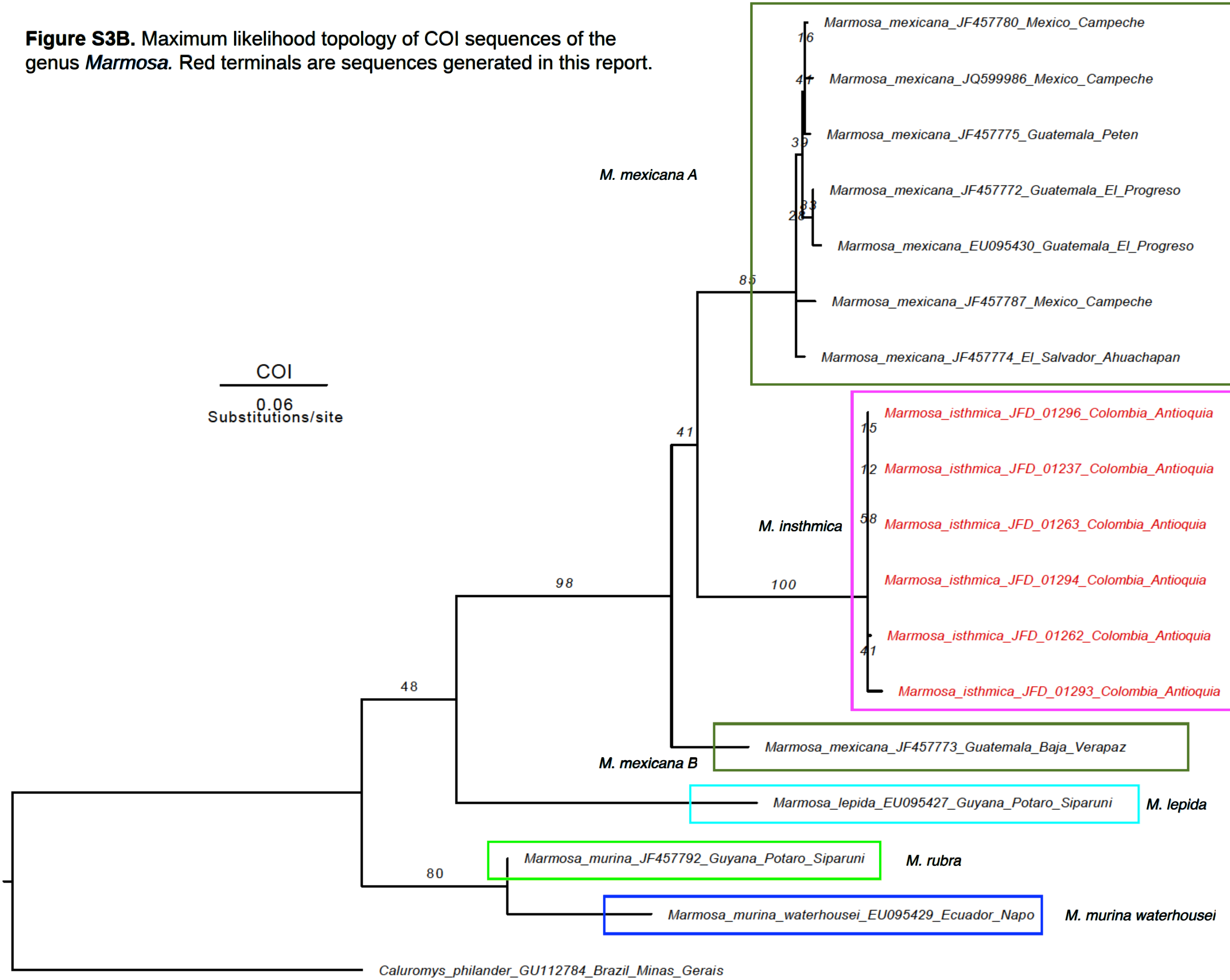


Figure S4A. Maximum likelihood topology of CYTB sequences of the genus *Molossops.* Red terminals are sequences generated in this report.

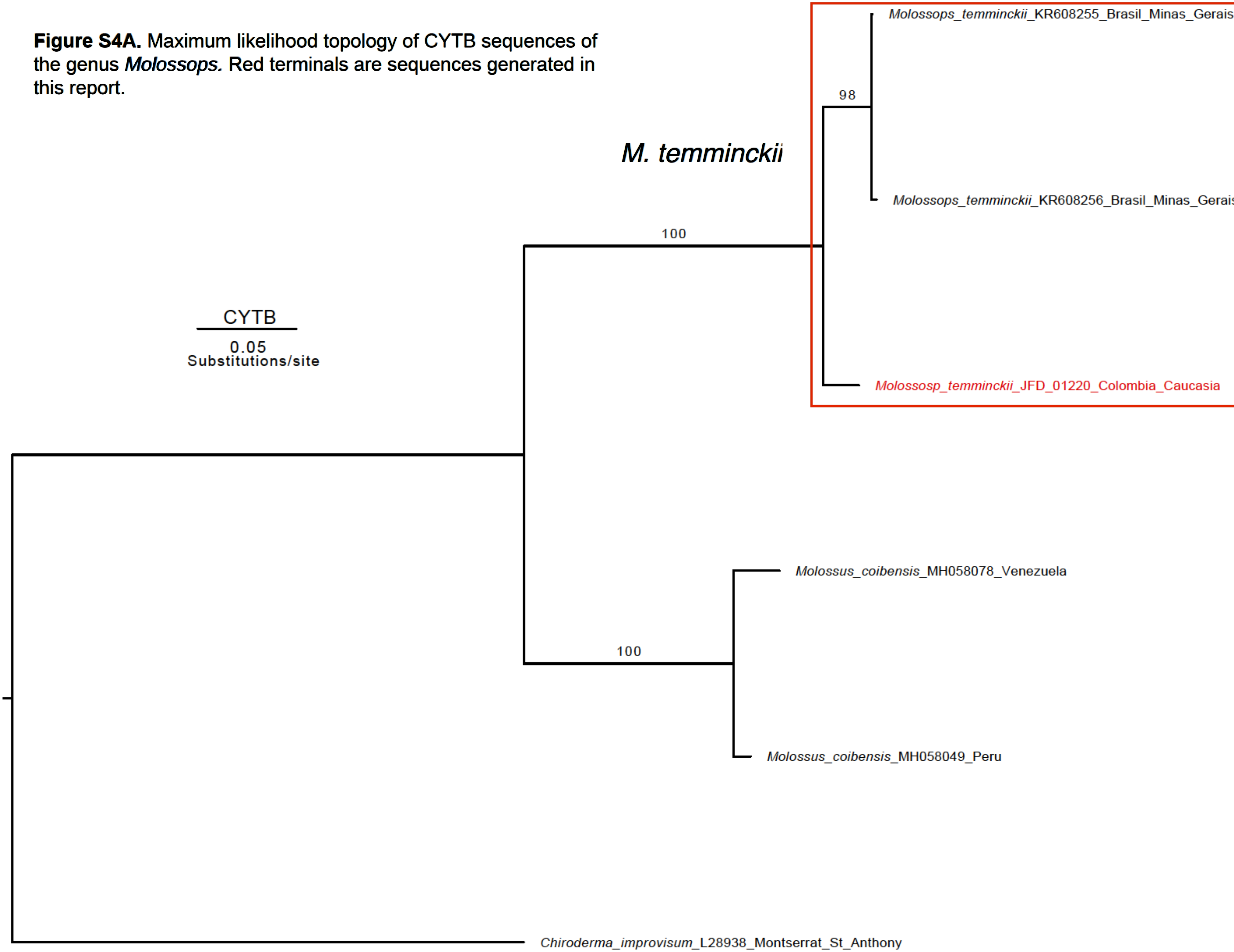


Figure S4B. Maximum likelihood topology of COI sequences of the genus *Molossops.* Red terminals are sequences generated in this report.

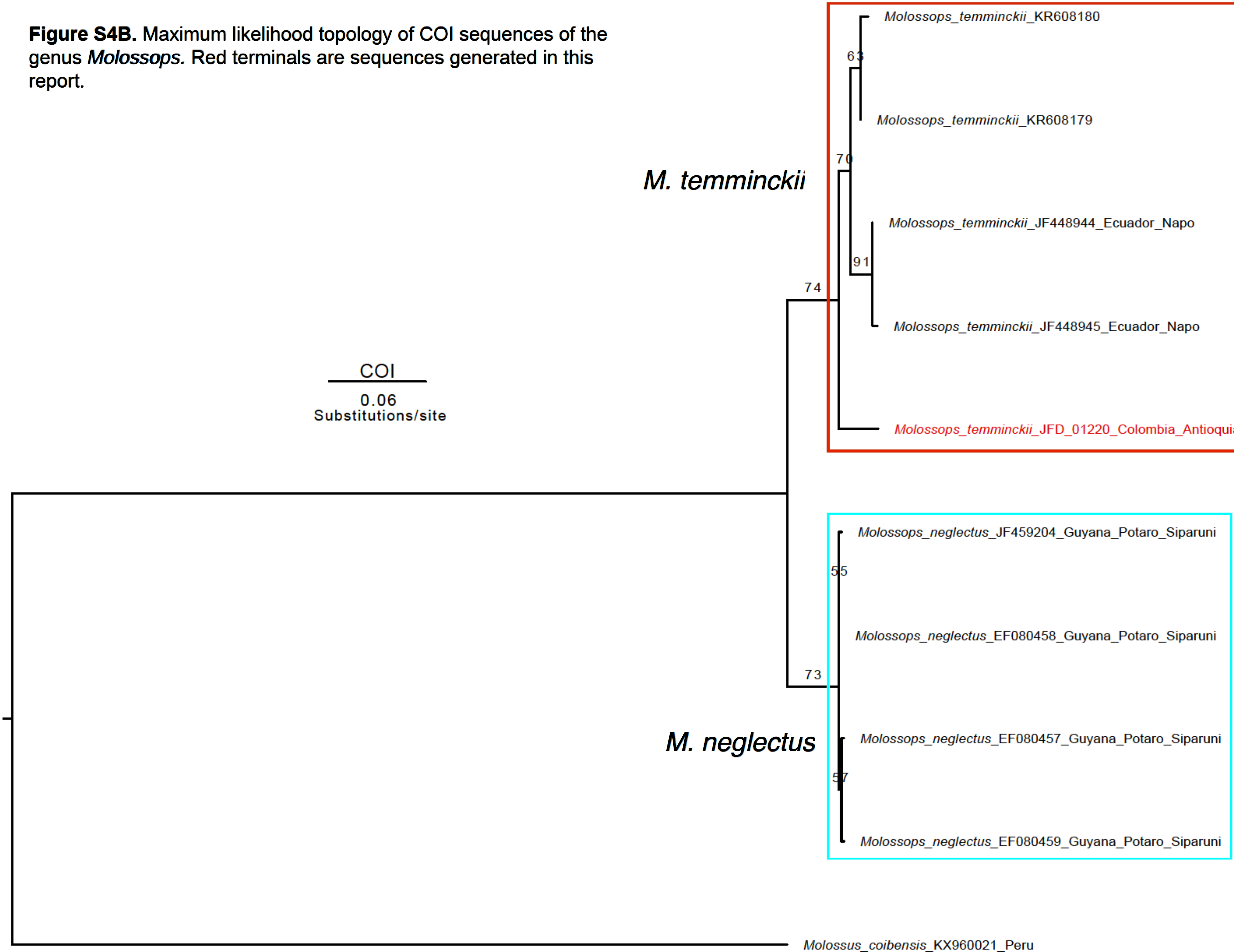


Figure S5A. Maximum likelihood topology of CYTB sequences of the genus *Molossus.* Red terminals are sequences generated in this report.

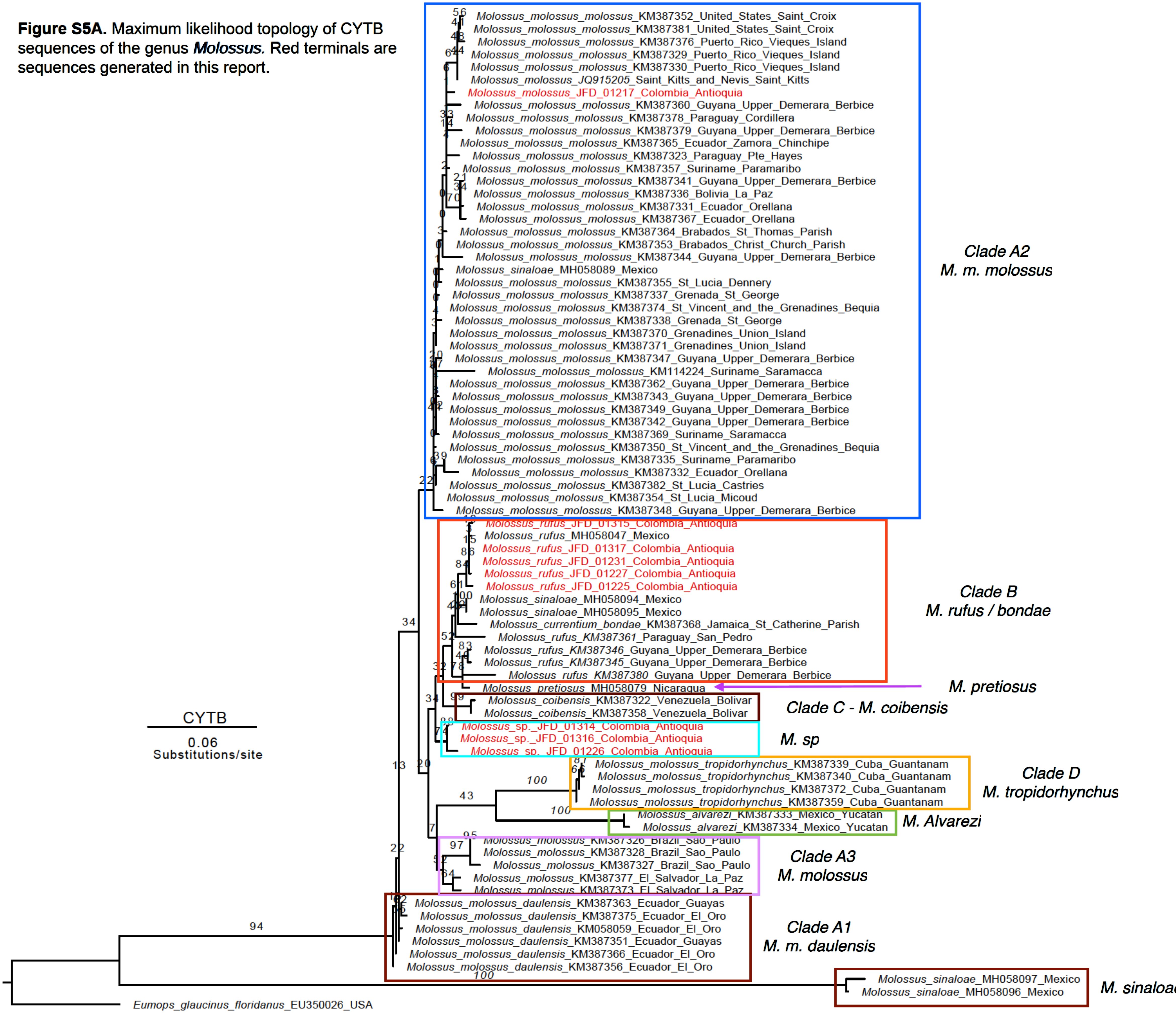


Figure S6. Maximum likelihood topology of COI sequences of the genus *Desmodus.* Red terminals are sequences generated in this report.

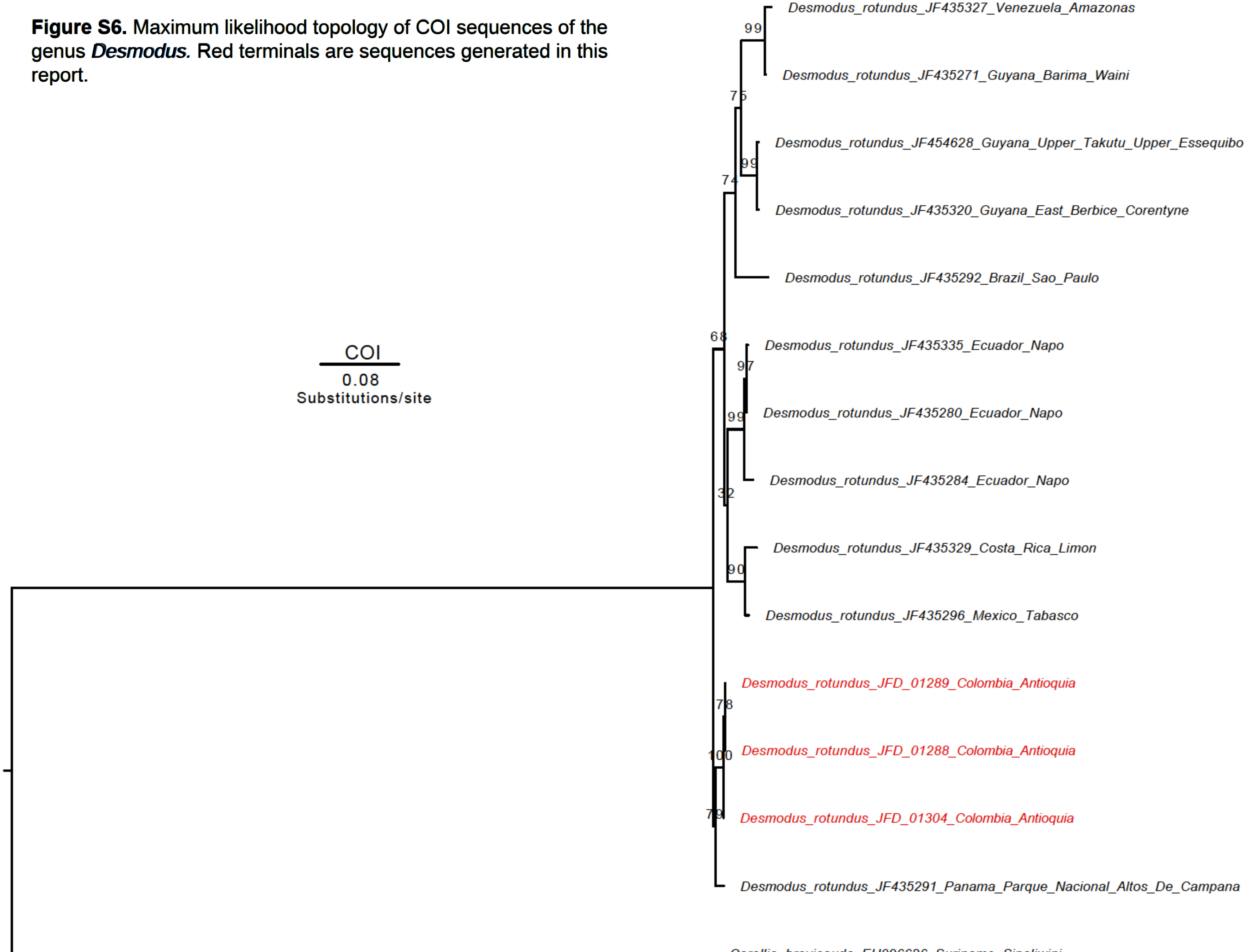


Figure S7A. Maximum likelihood topology of CYTB sequences of the genus *Chiroderma.* Red terminals are sequences generated in this report.

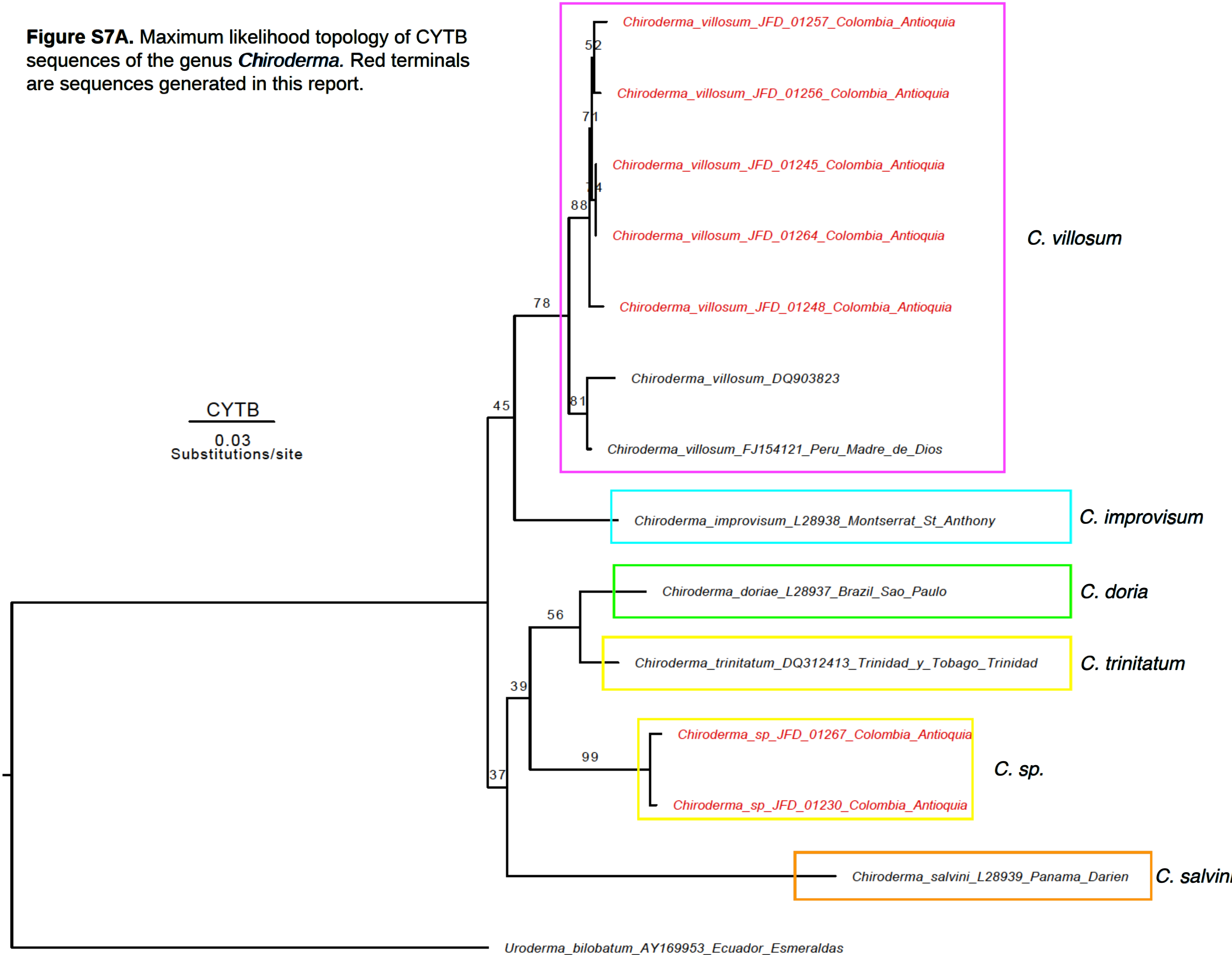


Figure S7B. Maximum likelihood topology of COI sequences of the genus *Chiroderma.* Red terminals are sequences generated in this report.

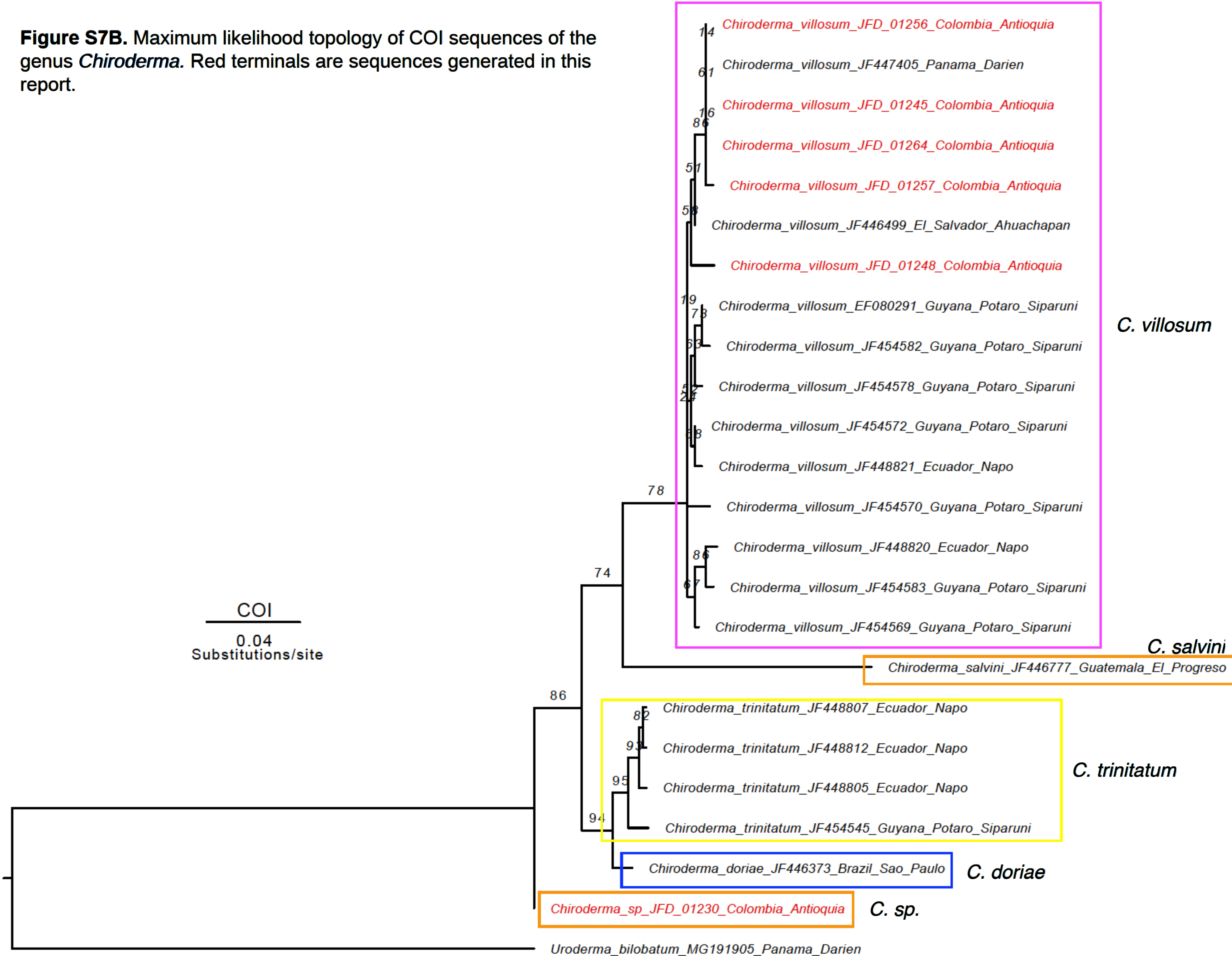


Figure S8A. Maximum likelihood topology of CYTB sequences of the genus ***Micronycteris***. Red terminals are sequences generated in this report.

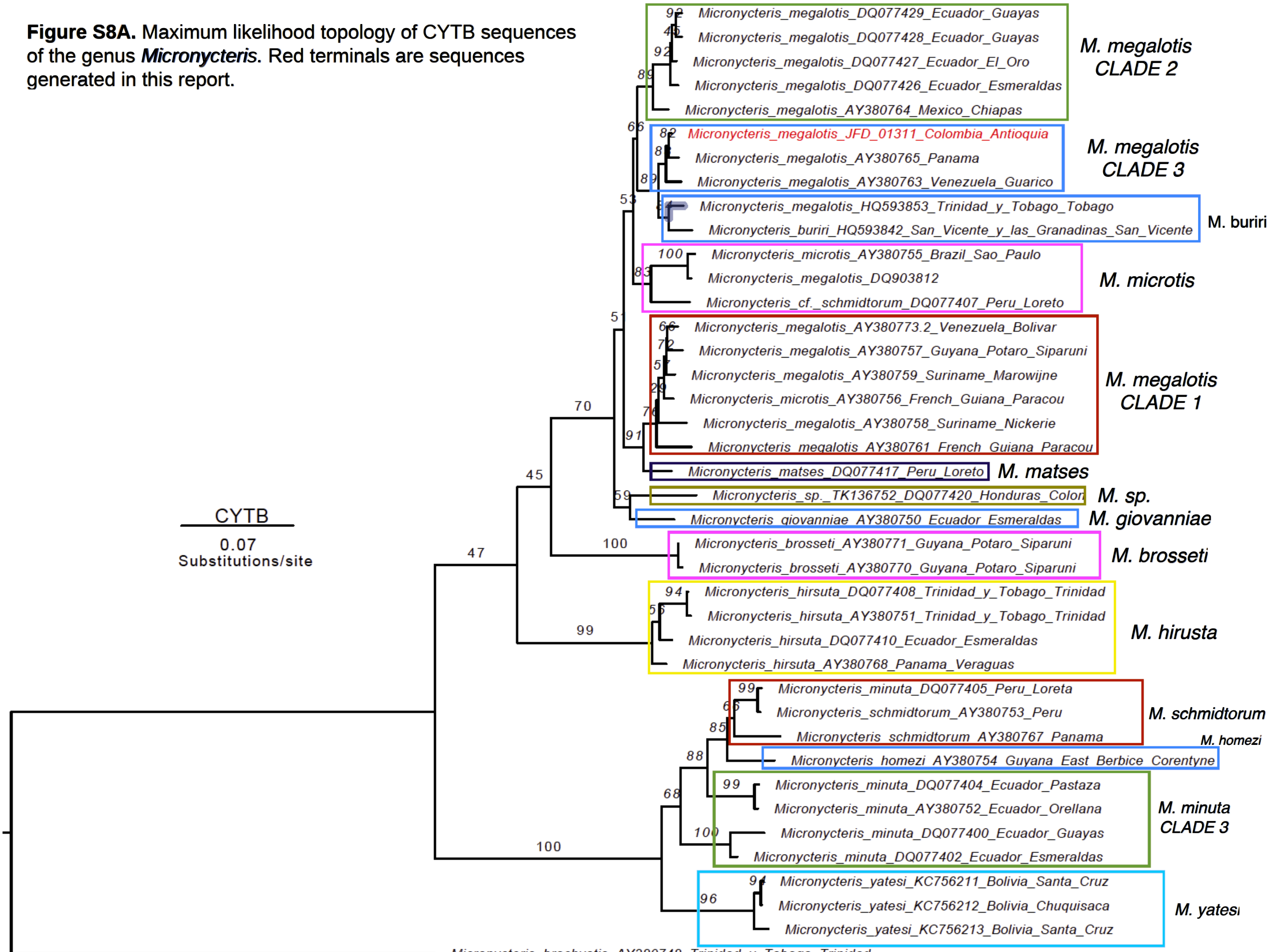


Figure S8B. Maximum likelihood topology of COI sequences of the genus ***Micronycteris***. Red terminals are sequences generated in this report.

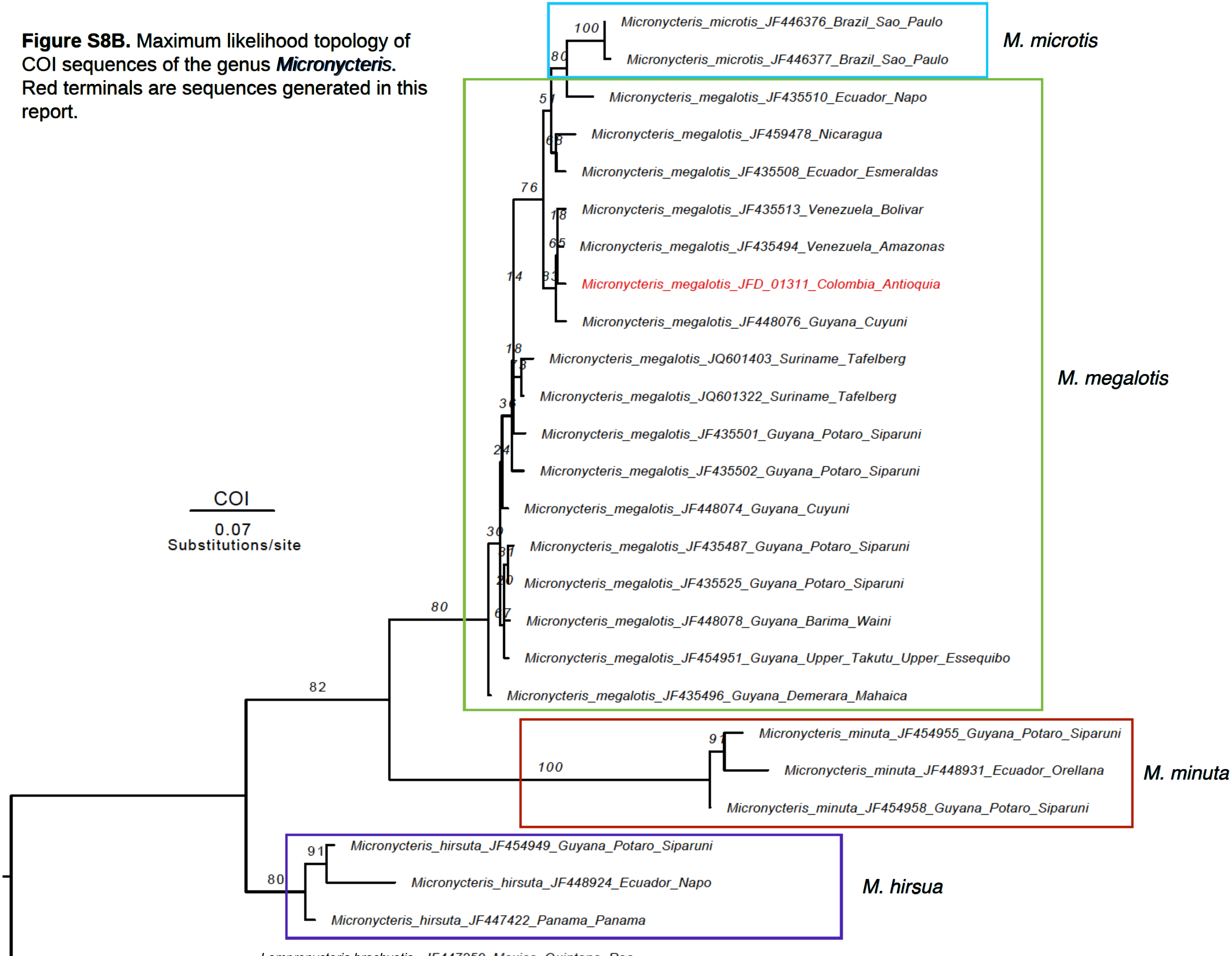


Figure S9. Maximum likelihood topology of CYTB sequences of the genus ***Phyllostomus.*** Red terminals are sequences generated in this report.

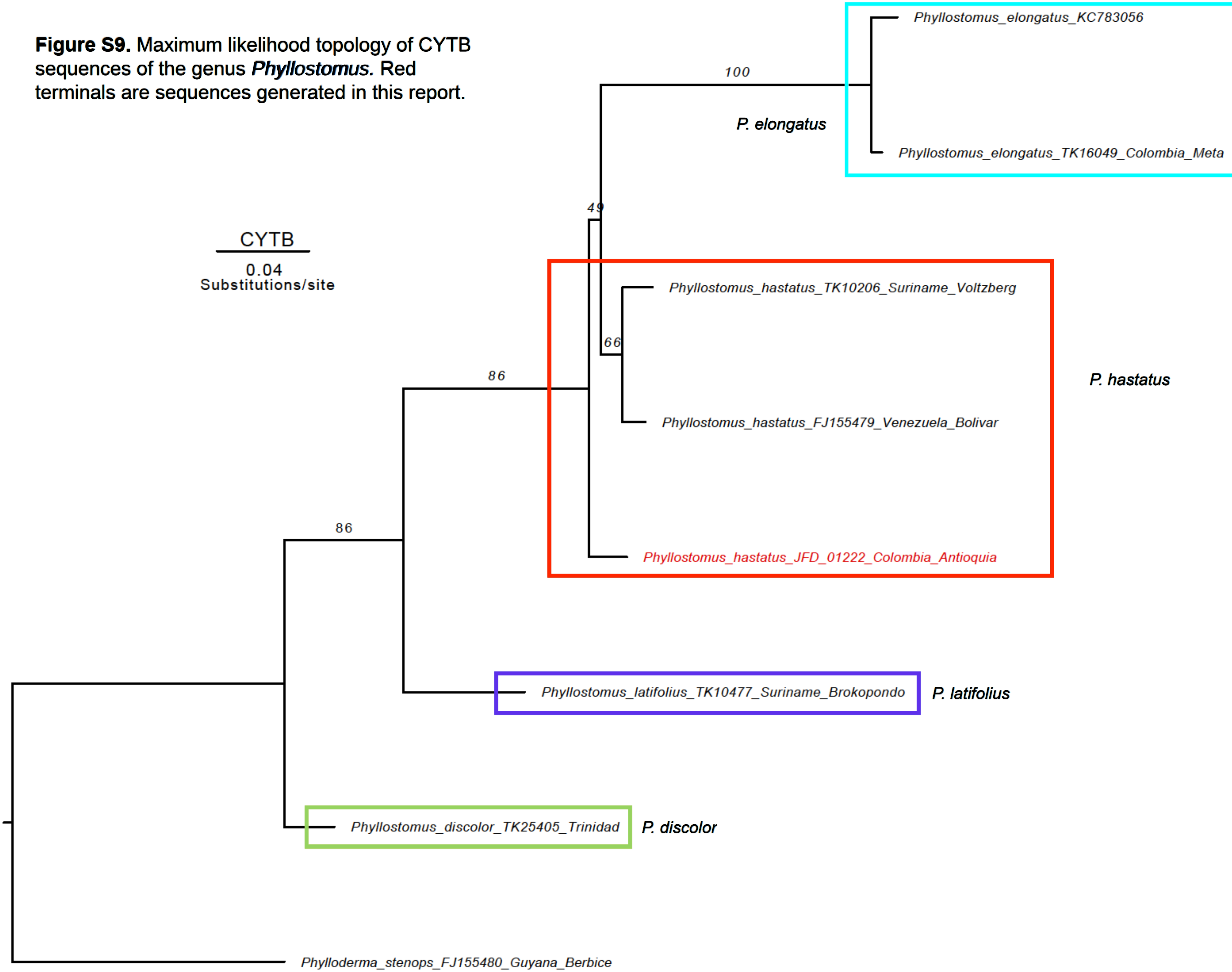


Figure S10A. Maximum likelihood topology of CYTB sequences of the genus *Gardnerycteris*. Red terminals are sequences generated in this report.

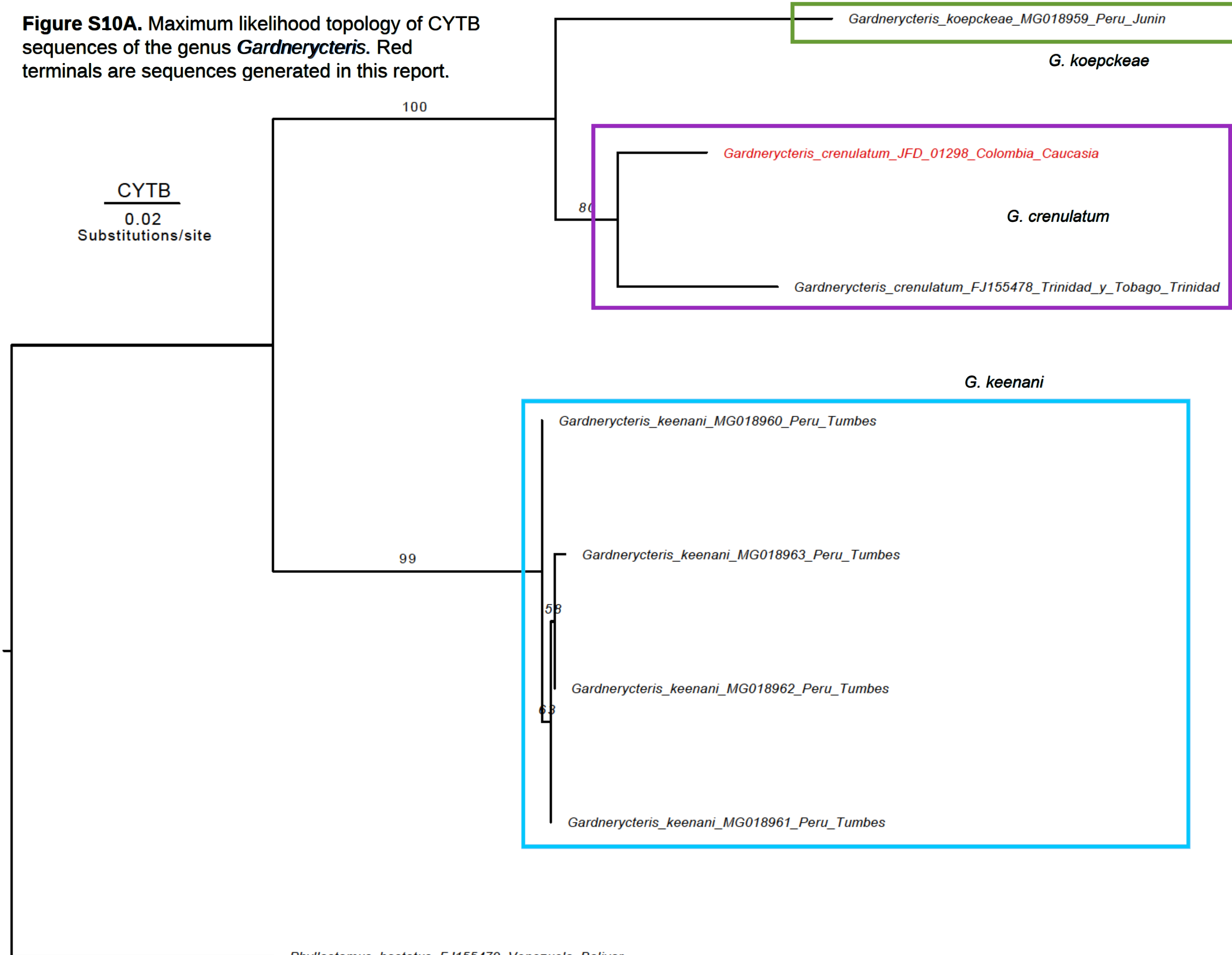


Figure S10B. Maximum likelihood topology of COI sequences of the genus *Gardnerycteris.* Red terminals are sequences generated in this report.

Figure S11A. Maximum likelihood topology of CYTB sequences of the genus *Lophostoma*. Red terminals are sequences generated in this report.

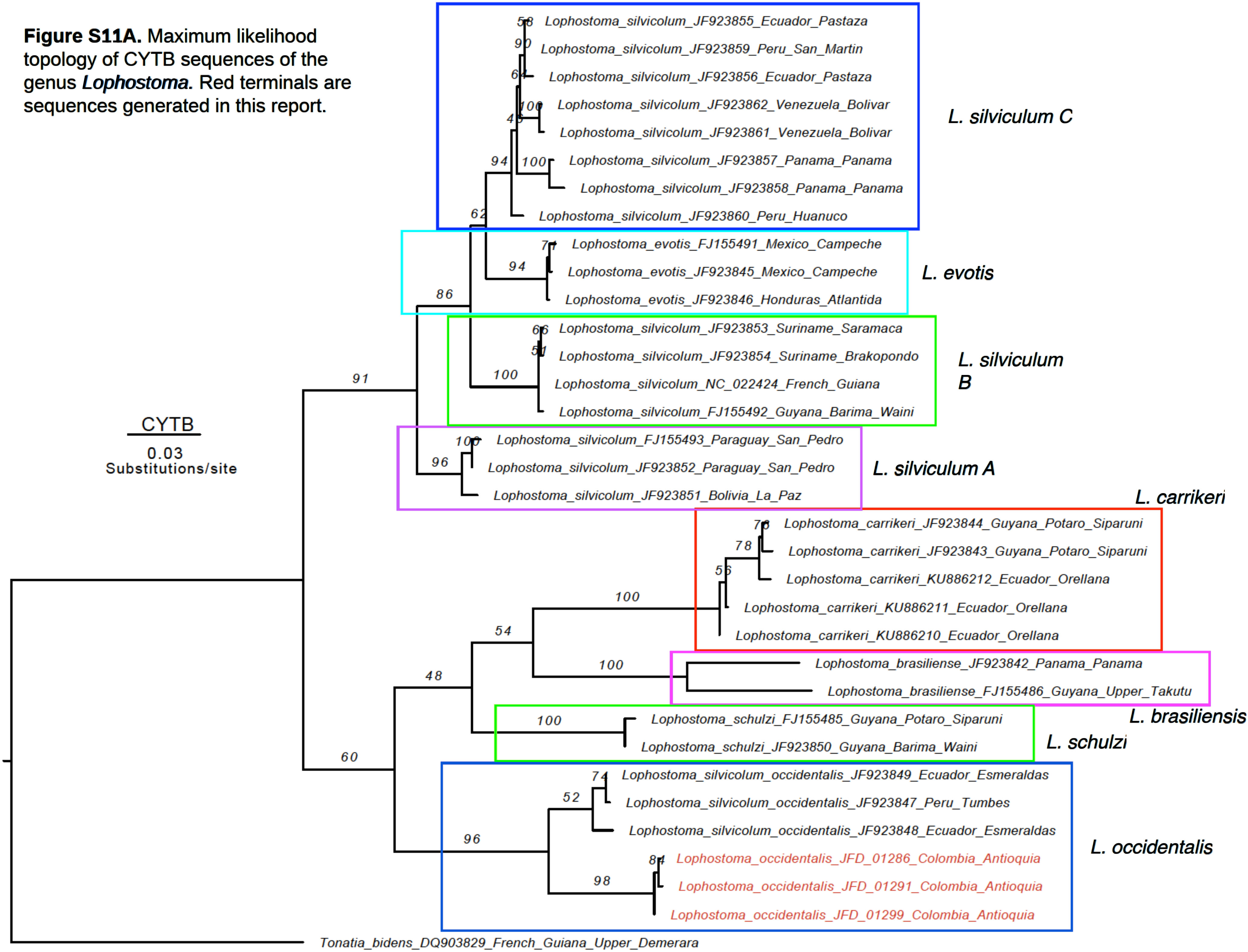


Figure S11B. Maximum likelihood topology of COI sequences of the genus *Lophostoma.* Red terminals are sequences generated in this report.

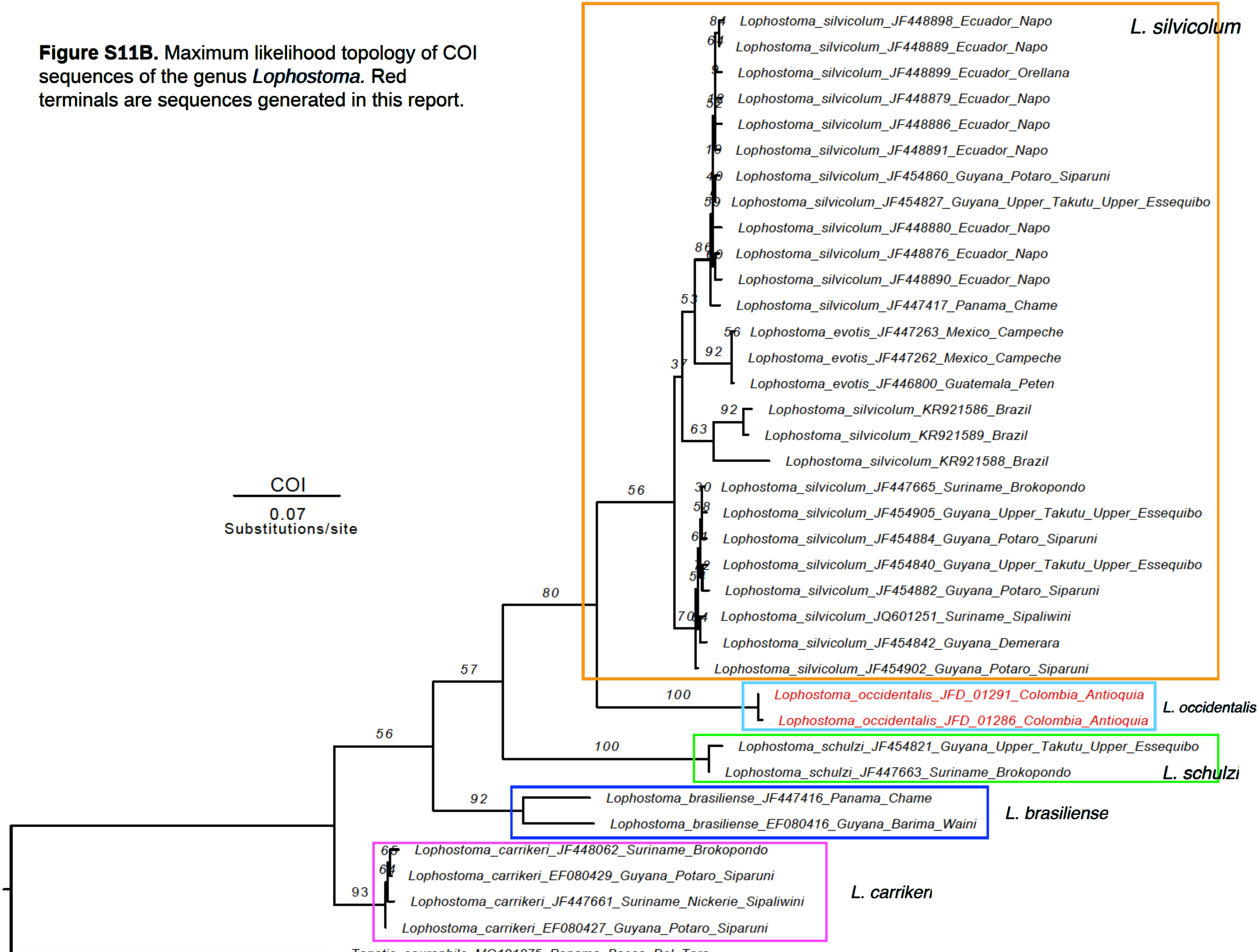


Figure S12A. Maximum likelihood topology of CYTB sequences of the genus ***Uroderma***. Red terminals are sequences generated in this report.

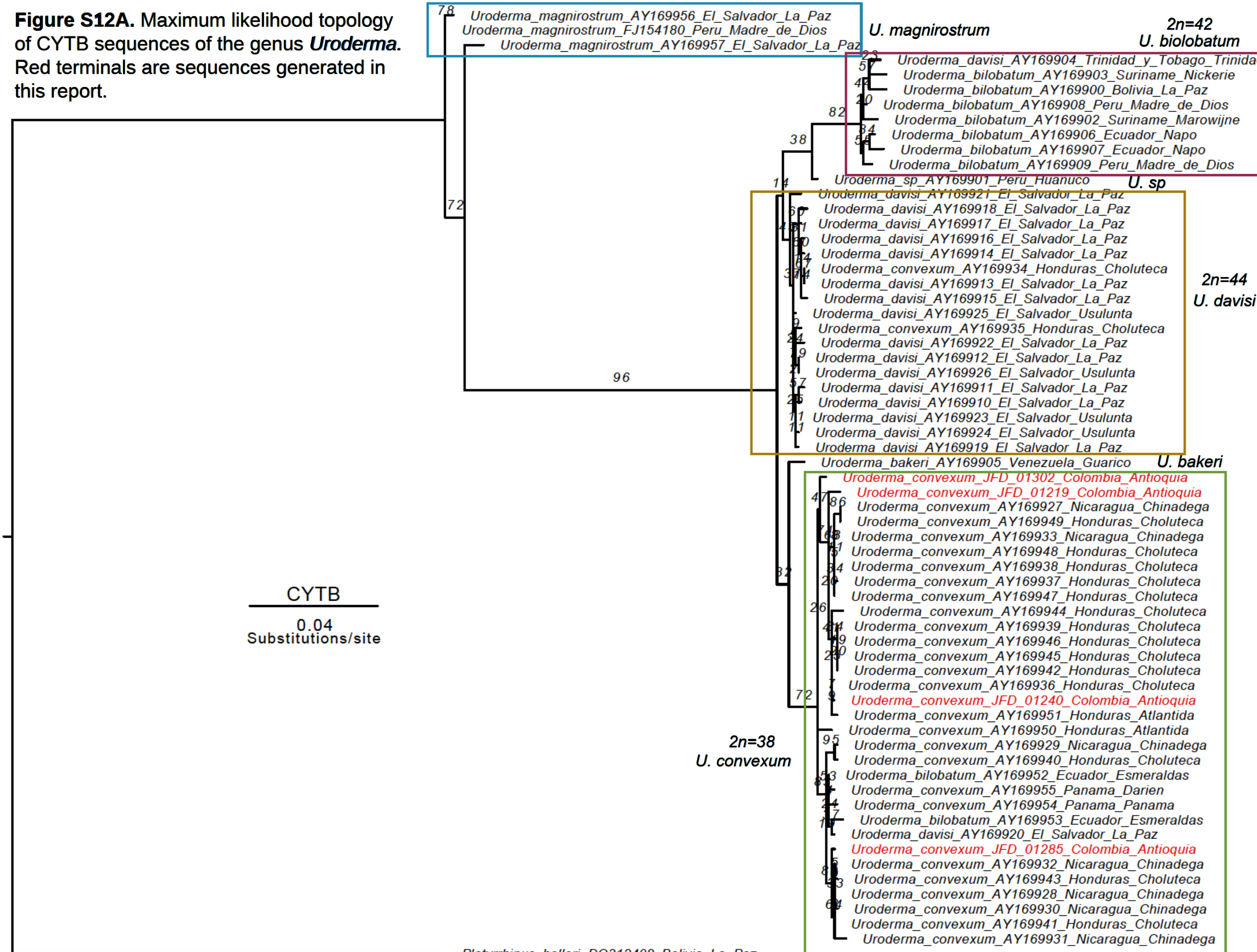
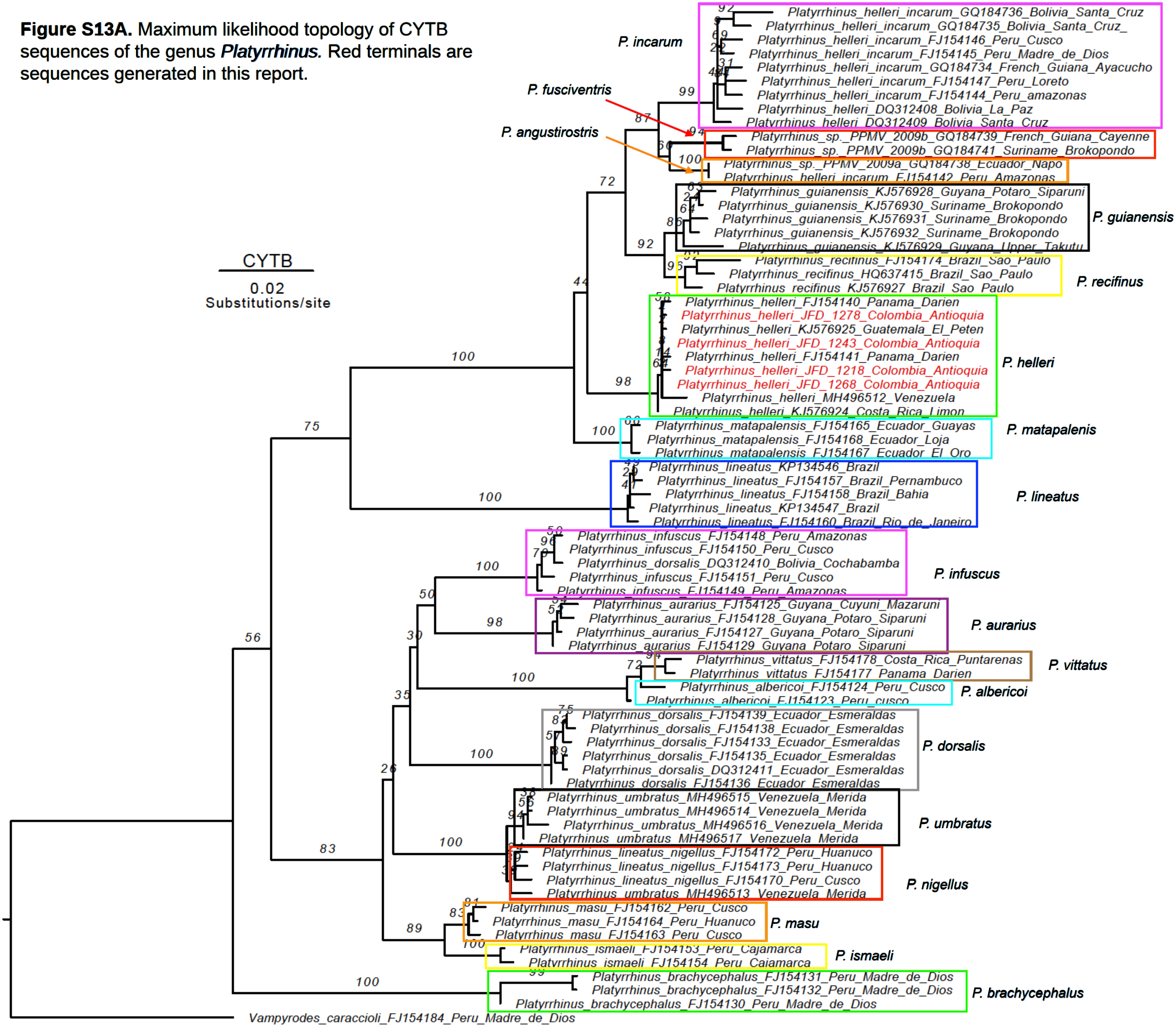


Figure S12B. Maximum likelihood topology of COI sequences of the genus *Uroderma.* Red terminals are sequences generated in this report.

Figure S13A. Maximum likelihood topology of CYTB sequences of the genus ***Platyrrhinus.*** Red terminals are sequences generated in this report.



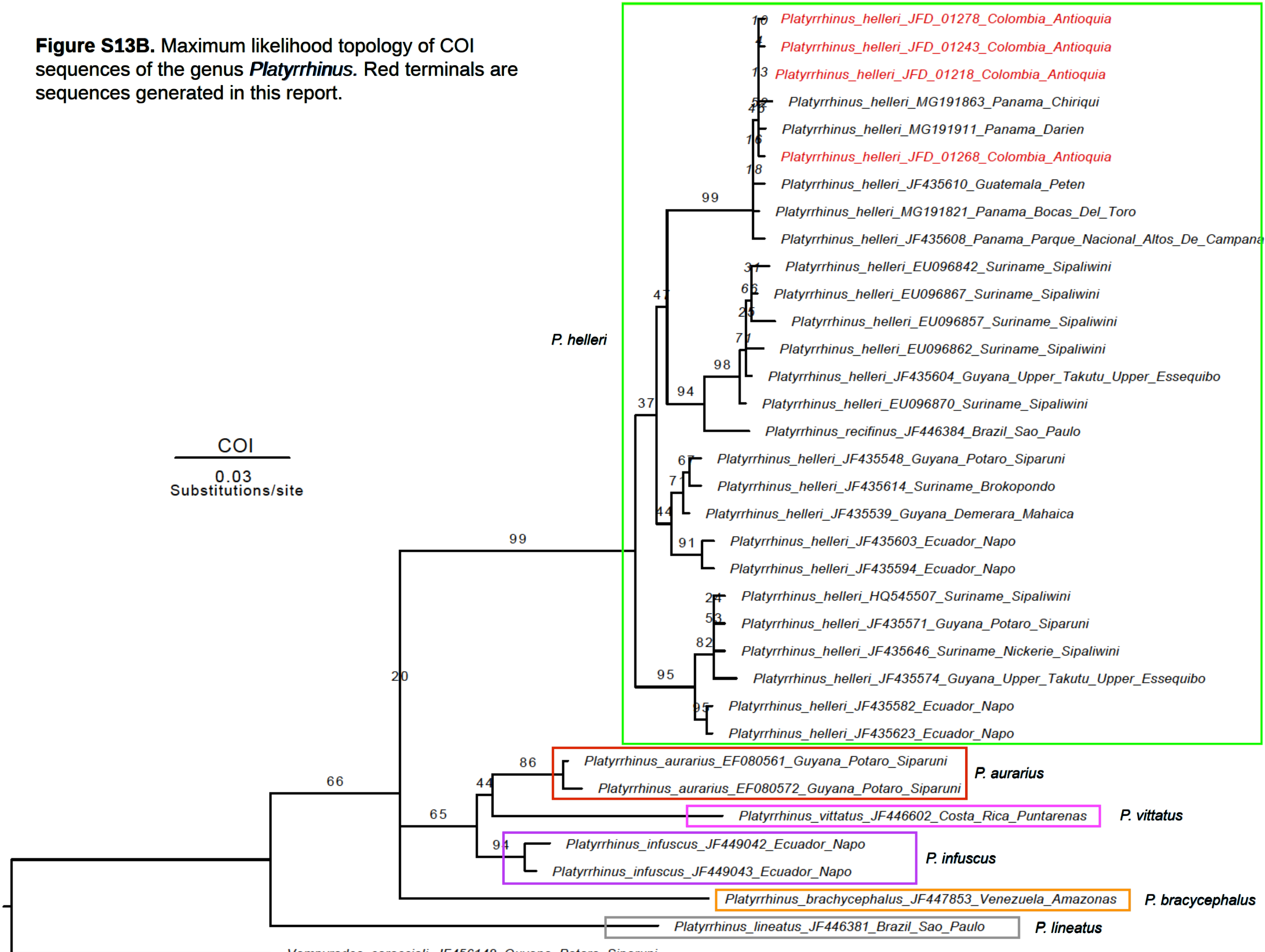


Figure S13B. Maximum likelihood topology of COI sequences of the genus *Platyrrhinus*. Red terminals are sequences generated in this report.

Figure S14A. Maximum likelihood topology of CYTB sequences of the genus ***Vampyressa***. Red terminals are sequences generated in this report.

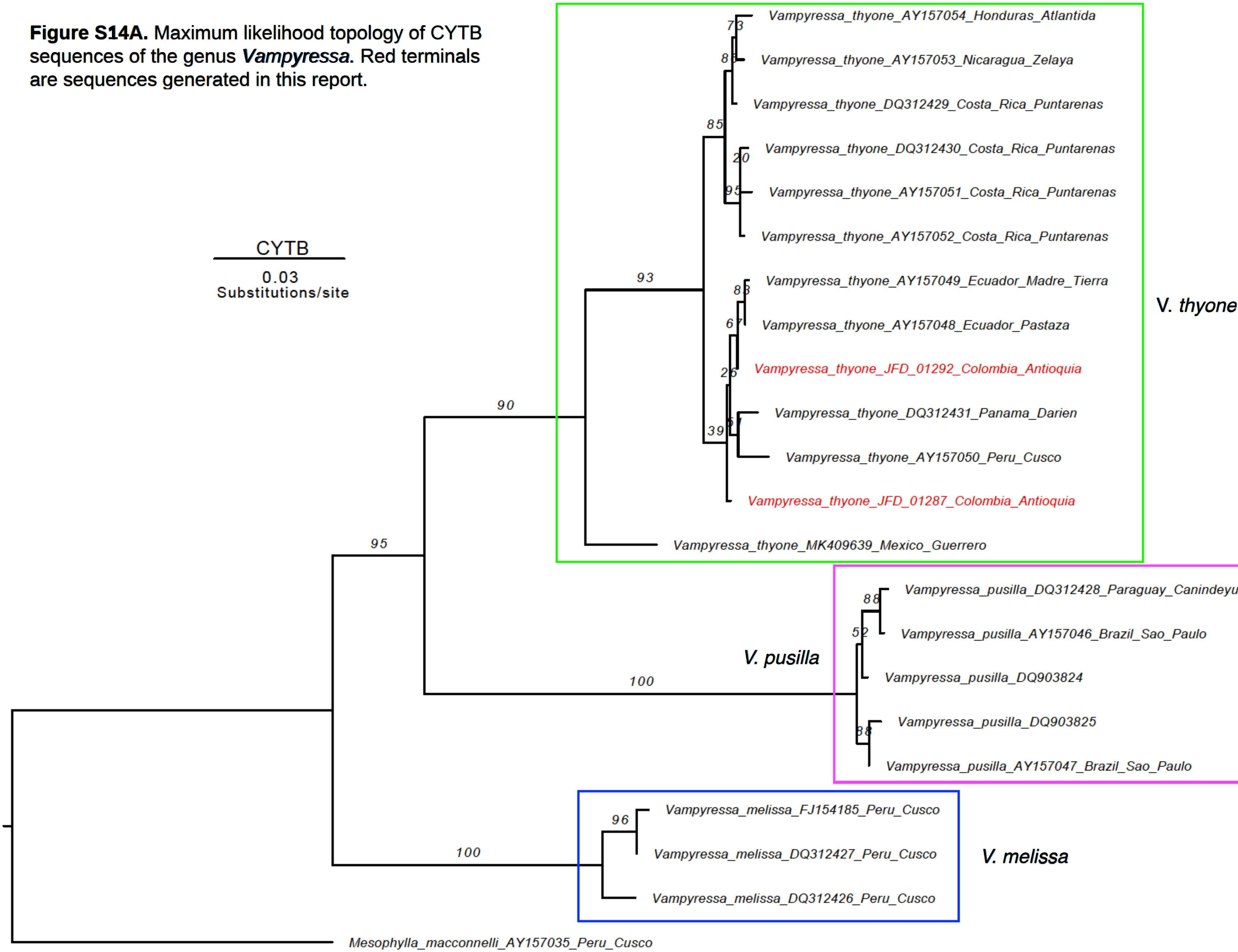


Figure S14B. Maximum likelihood topology of COI sequences of the genus *Vampyressa.* Red terminals are sequences generated in this report.

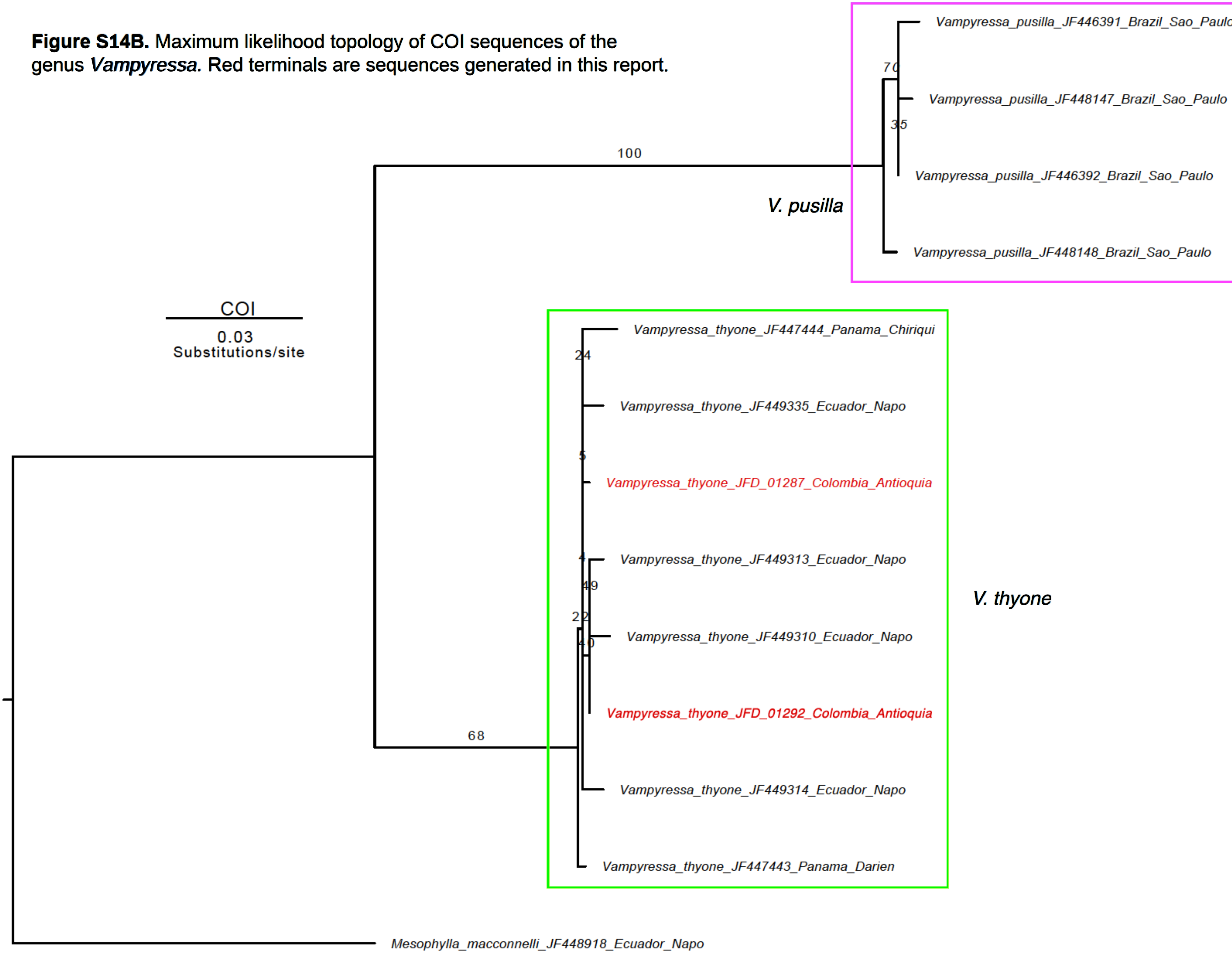


Figure S15. Maximum likelihood topology of CYTB sequences of the genus *Carollia*. Red terminals are sequences generated in this report.

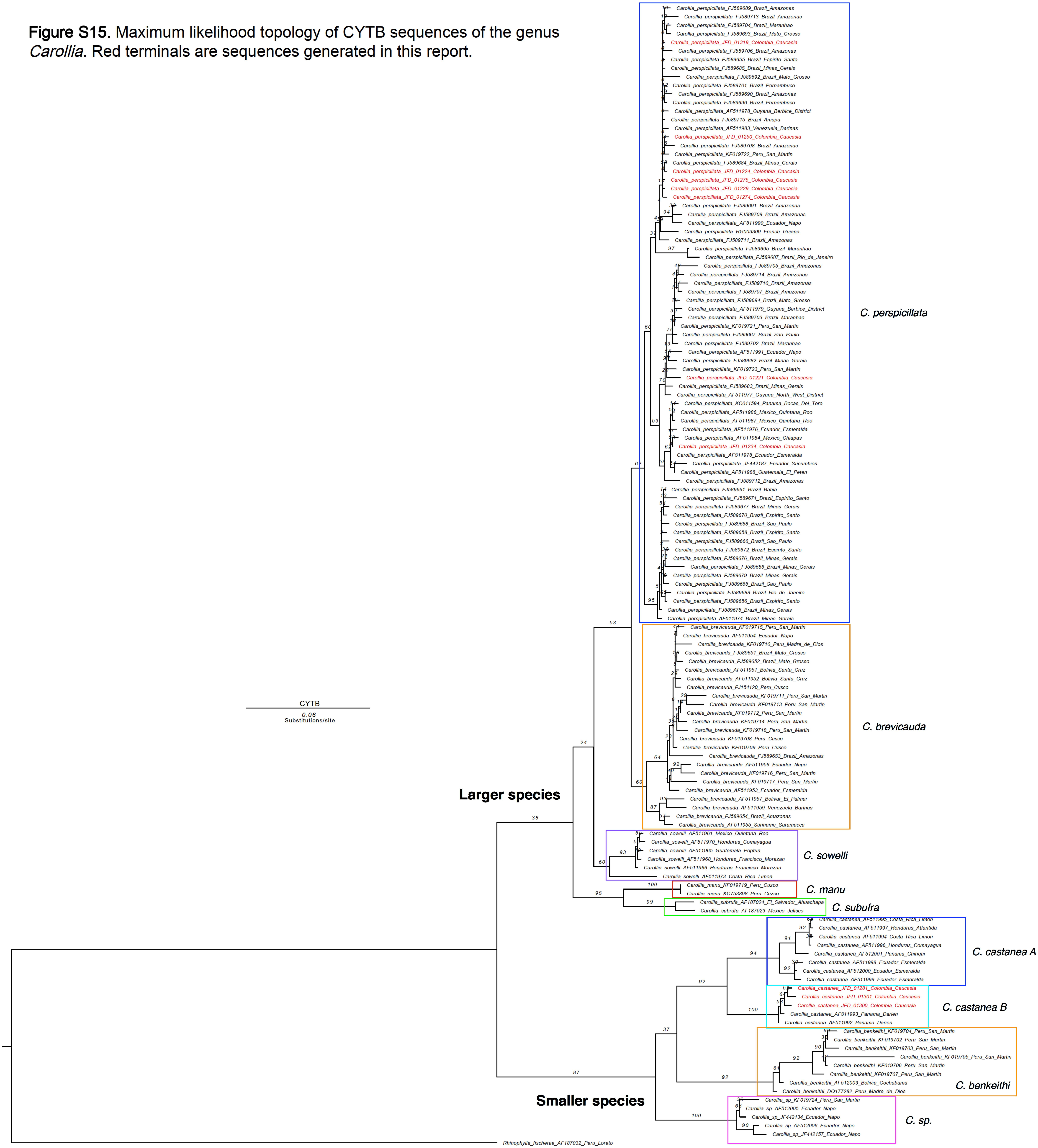


Figure S16A. Maximum likelihood topology of CYTB sequences of the genus *Artibeus*. Red terminals are sequences generated in this report.

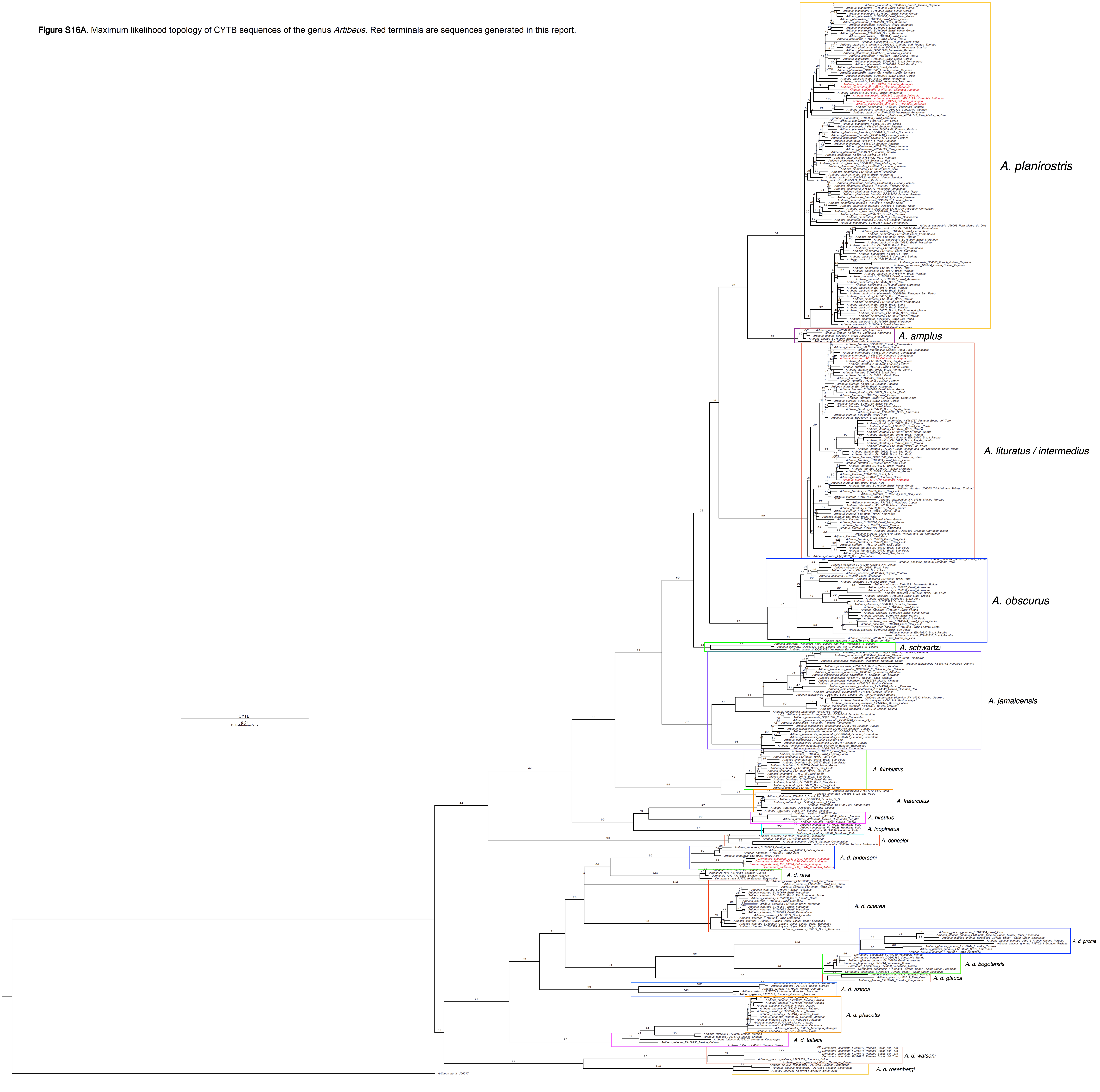


Figure S16B. Maximum likelihood topology of COI sequences of the genus *Artibeus*. Red terminals are sequences generated in this report.

Figure S17B. Maximum likelihood topology of CYTB sequences of the genus *Myotis.* Red terminals are sequences generated in this report.

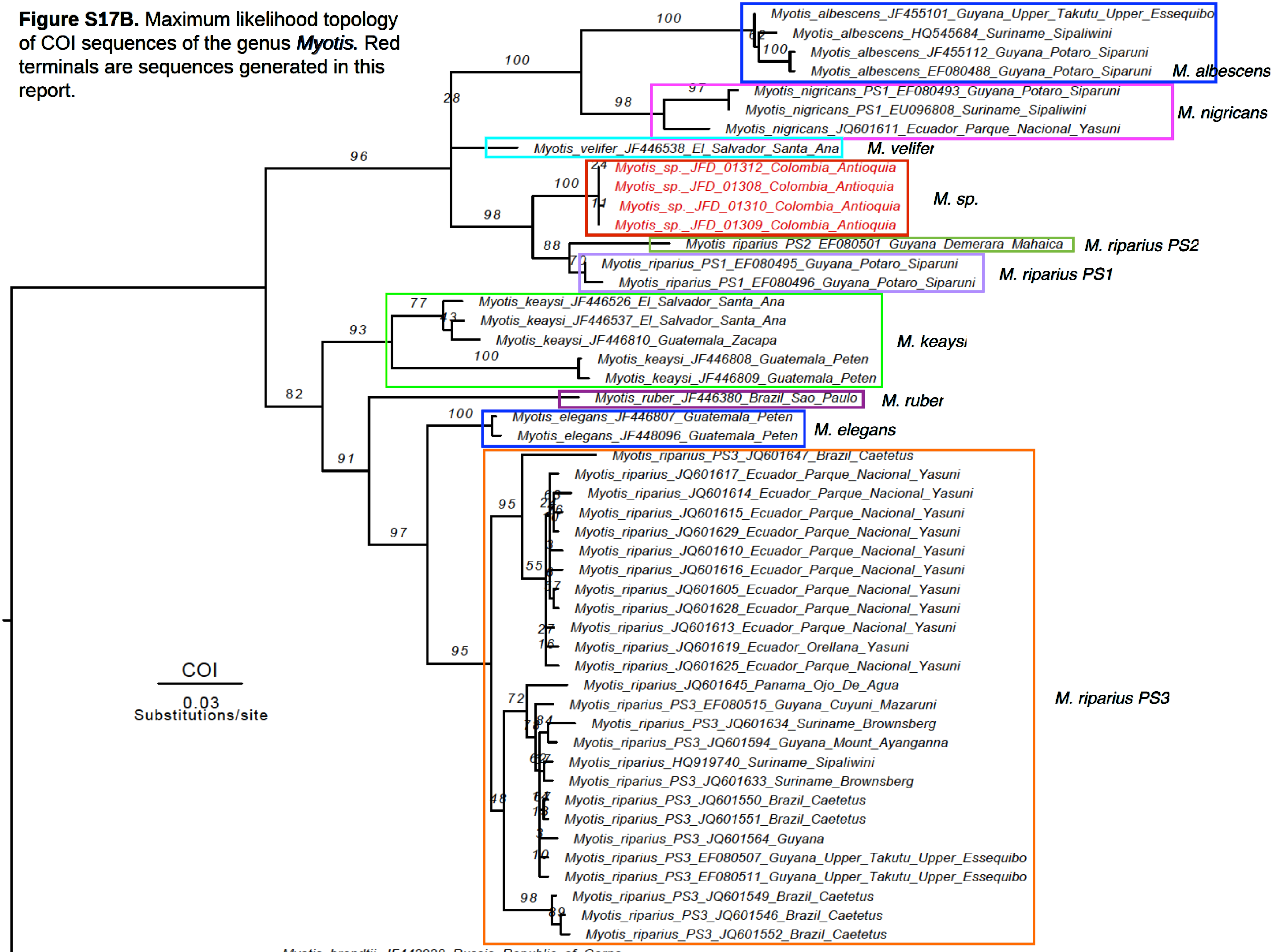


Figure S17B. Maximum likelihood topology of COI sequences of the genus *Myotis*. Red terminals are sequences generated in this report.

Figure S18A. Maximum likelihood topology of CYTB sequences of the genus *Proechimys*. Red terminals are sequences generated in this report.

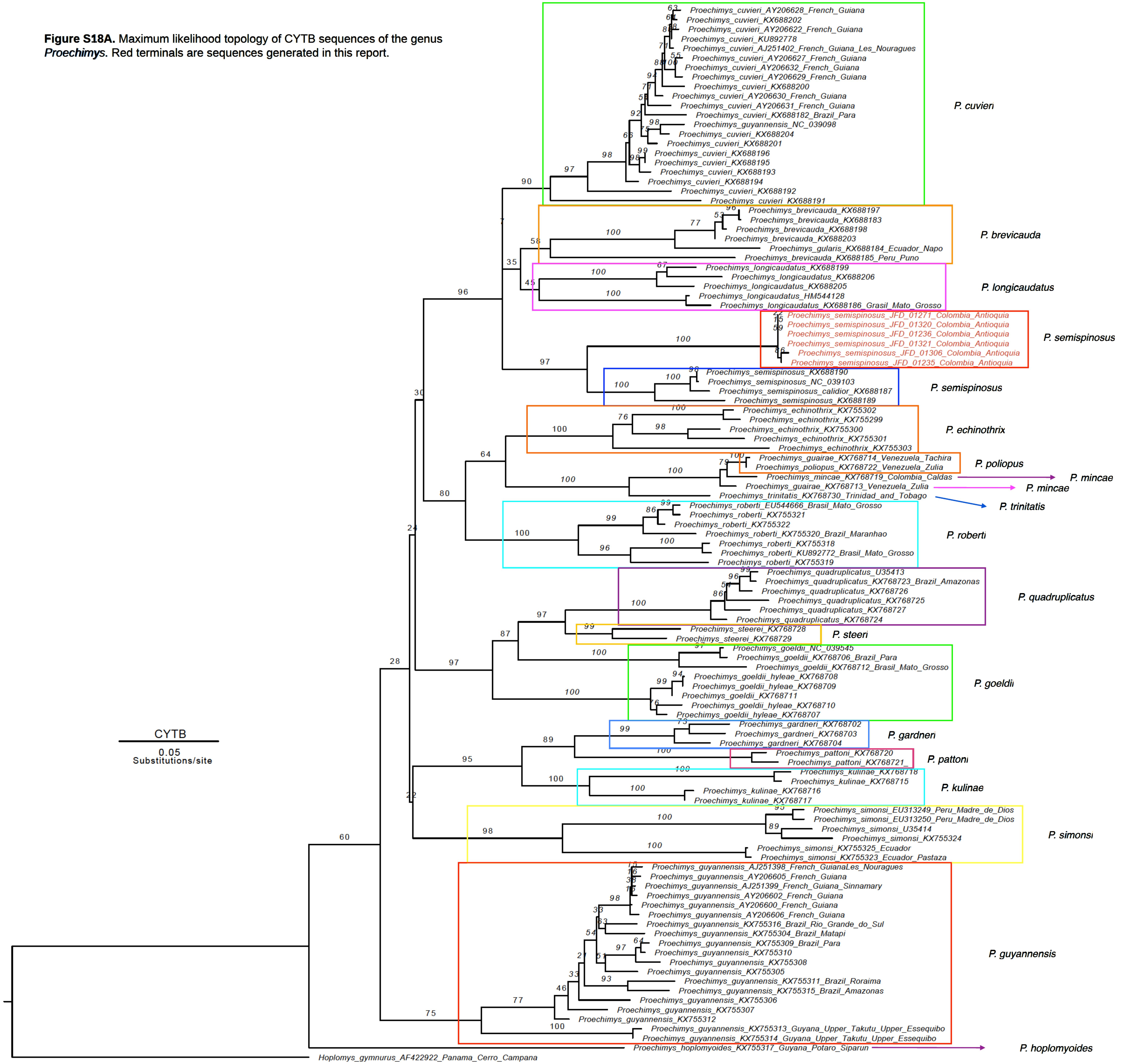


Figure S18B. Maximum likelihood topology of COI sequences of the genus *Proechimys*. Red terminals are sequences generated in this report.

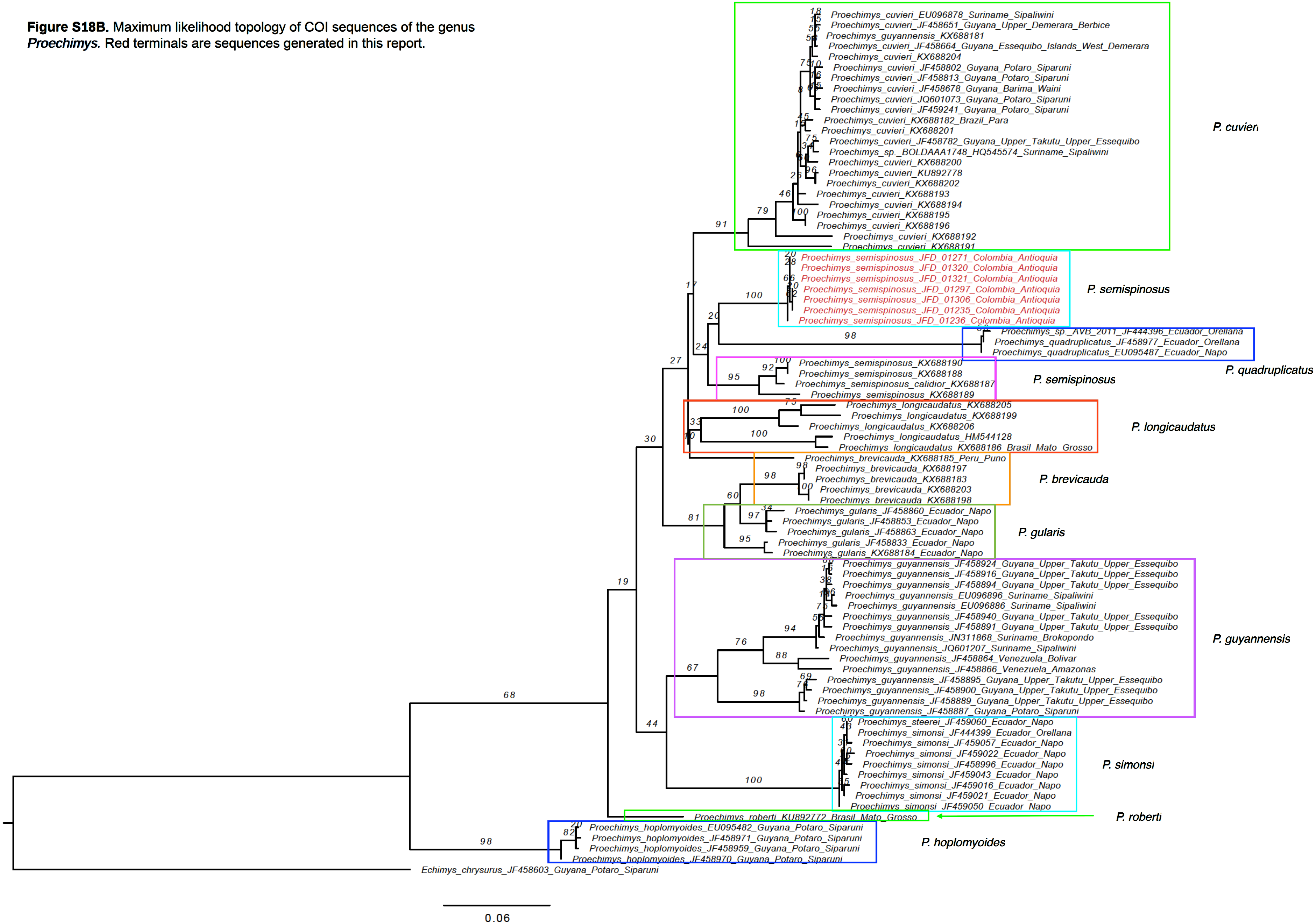


Figure S19A. Maximum likelihood topology of CYTB sequences of the genus *Notosciurus*. Red terminals are sequences generated in this report.