

Scientific Reports Supplementary Materials 1

Title: Taxonomic Reassessment of Captive Sugar Gliders Using Genetic Analyses and Complementary Acoustic Data

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Table S1 The list of samples collected during this study with accession numbers to the NCBI GenBank database.

Sample ID	Location	Type	ND2	ND4	ω-globin
SGS1	Pilsen	Buccal swab	PV701819	PV701895	PV701971
SGS2	Pilsen	Buccal swab	PV701820	PV701896	PV701972
SGS3	Pilsen	Buccal swab	PV701821	PV701897	PV701973
SGS4	Pilsen	Buccal swab	PV701822	PV701898	PV701974
SGS5	Pilsen	Buccal swab	PV701823	PV701899	PV701975
SGS6	Prague	Buccal swab	PV701824	PV701900	PV701976
SGS7	Prague	Buccal swab	PV701825	PV701901	PV701977
SGS8	Prague	Buccal swab	PV701826	PV701902	
SGS9	Brno	Buccal swab	PV701827	PV701903	PV701978
SGS10	Brno	Buccal swab	PV701828	PV701904	
SGS11	Roztoky	Buccal swab	PV701829	PV701905	PV701979
SGS12	Roztoky	Buccal swab	PV701830	PV701906	PV701980
SGS13	Roztoky	Buccal swab	PV701831	PV701907	PV701981
SGS14	Roztoky	Buccal swab	PV701832	PV701908	PV701982
SGS15	Roztoky	Buccal swab	PV701833	PV701909	PV701983
SGS16	Roztoky	Buccal swab	PV701834	PV701910	PV701984
SGS17	Roztoky	Buccal swab	PV701835	PV701911	
SGS18	Golčův Jeníkov	Buccal swab	PV701836	PV701912	PV701985
SGS19	Golčův Jeníkov	Buccal swab	PV701837	PV701913	
SGS20	Golčův Jeníkov	Buccal swab	PV701838	PV701914	PV701986
SGS21	Hradec Králové	Buccal swab	PV701839	PV701915	PV701987
SGS22	Hradec Králové	Buccal swab	PV701840	PV701916	PV701988
SGS23	Hradec Králové	Buccal swab	PV701841	PV701917	PV701989
SGS24	Hradec Králové	Buccal swab	PV701842	PV701918	
SGS25	České Budějovice	Buccal swab	PV701843	PV701919	
SGS26	České Budějovice	Buccal swab	PV701844	PV701920	
SGS27	Vila Praia de Ancora	Buccal swab	PV701845	PV701921	

Sample ID	Location	Type	ND2	ND4	ω-globin
SGS28	Vila Praia de Ancora	Buccal swab	PV701846	PV701922	
SGS29	Vila Praia de Ancora	Buccal swab	PV701847	PV701923	
SGS30	Vila Praia de Ancora	Buccal swab	PV701848	PV701924	
SGS31	Vila Praia de Ancora	Buccal swab	PV701849	PV701925	
SGS32	Viana do Castelo	Buccal swab	PV701850	PV701926	
SGS33	Viana do Castelo	Buccal swab	PV701851	PV701927	
SGS34	Melides	Buccal swab	PV701852	PV701928	
SGS35	Melides	Buccal swab	PV701853	PV701929	PV701990
SGS36	Melides	Buccal swab	PV701854	PV701930	
SGS37	Melides	Buccal swab	PV701855	PV701931	PV701991
SGS38	Melides	Buccal swab	PV701856	PV701932	PV701992
SGS39	Melides	Buccal swab	PV701857	PV701933	
SGS40	Melides	Buccal swab	PV701858	PV701934	PV701993
SGS41	Melides	Buccal swab	PV701859	PV701935	
SGS42	Melides	Buccal swab	PV701860	PV701936	
SGS43	Melides	Buccal swab	PV701861	PV701937	
SGS44	Melides	Buccal swab	PV701862	PV701938	
SGS45	Melides	Buccal swab	PV701863	PV701939	
SGS46	Berlin	Buccal swab	PV701864	PV701940	
SGS47	Berlin	Buccal swab	PV701865	PV701941	
SGS48	Berlin	Buccal swab	PV701866	PV701942	
SGS49	Berlin	Buccal swab	PV701867	PV701943	
SGS50	Berlin	Buccal swab	PV701868	PV701944	
SGS51	Berlin	Buccal swab	PV701869	PV701945	
SGS52	Berlin	Buccal swab	PV701870	PV701946	
SGS53	Berlin	Buccal swab	PV701871	PV701947	
SGS54	Berlin	Buccal swab	PV701872	PV701948	
SGS55	Berlin	Buccal swab	PV701873	PV701949	
SGS56	Berlin	Buccal swab	PV701874	PV701950	
SGS57	Berlin	Buccal swab	PV701875	PV701951	
SGS58	Berlin	Buccal swab	PV701876	PV701952	
SGS59	Berlin	Buccal swab	PV701877	PV701953	
SGS60	Riga	Buccal swab	PV701878	PV701954	
SGS61	Riga	Buccal swab	PV701879	PV701955	
SGS62	Riga	Buccal swab	PV701880	PV701956	
SGS63	Riga	Buccal swab	PV701881	PV701957	
SGS64	Riga	Buccal swab	PV701882	PV701958	
SGS65	Riga	Buccal swab	PV701883	PV701959	
SGS66	Riga	Buccal swab	PV701884	PV701960	

Sample ID	Location	Type	ND2	ND4	ω-globin
SGS67	Riga	Buccal swab	PV701885	PV701961	
SGS68	Riga	Buccal swab	PV701886	PV701962	
SGS69	Riga	Buccal swab	PV701887	PV701963	
SGS70	Riga	Buccal swab	PV701888	PV701964	
SGS71	Riga	Buccal swab	PV701889	PV701965	
SGS72	Riga	Buccal swab	PV701890	PV701966	
SGS73	Riga	Buccal swab	PV701891	PV701967	
SGS74	Riga	Buccal swab	PV701892	PV701968	
SGT1	Pilsen	Tissue	PV701893	PV701969	
SGT2	Pilsen	Tissue	PV701894	PV701970	

Table S2: NCBI sequences used within this study. NG stands for New Guinea; PNG stands for Papua New Guinea.

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>Petaurus breviceps</i>	NG	−5.25	142.70	GQ323839*	GQ323906*
<i>P. breviceps</i>	NG	−5.25	142.70	GQ323840*	GQ323907*
<i>P. breviceps</i>	NG	−5.25	142.70	GQ323841*	GQ323908*
<i>P. breviceps</i>	NG	−5.25	142.70	GQ323842*	GQ323909*
<i>P. breviceps</i>	NG	−5.11	141.41	GQ323843*	GQ323910*
<i>P. breviceps</i>	NG	−5.11	141.41	GQ323844*	GQ323911*
<i>P. breviceps</i>	NG	−6.25	142.78	GQ323838*	GQ323905*
<i>P. breviceps</i>	NG	−4.7	145.91	GQ323845*	GQ323912*
<i>P. breviceps</i>	NG	−4.7	145.91	GQ323846*	GQ323913*
<i>P. breviceps</i>	NG	−6.58	144.65	GQ323847*	GQ323914*
<i>P. breviceps</i>	NG	−6.58	144.65	GQ323849*	GQ323916*
<i>P. breviceps</i>	NG	−6.50	144.85	GQ323848*	GQ323915*
<i>P. breviceps</i>	NG	−6.50	144.85	GQ323852*	GQ323919*
<i>P. breviceps</i>	NG	−6.50	144.85	GQ323850*	GQ323917*
<i>P. breviceps</i>	NG	−6.50	144.85	GQ323851*	GQ323918*
<i>P. breviceps</i>	NG	−10.00	151.25	GQ323856*	GQ323923*
<i>P. breviceps</i>	NG	−10.00	151.25	GQ323855*	GQ323922*
<i>P. breviceps</i>	NG	−3.41	142.15	GQ323857*	GQ323924*
<i>P. breviceps</i>	NG	−3.41	142.15	GQ323858*	GQ323925*
<i>P. breviceps</i>	NG	−5.75	145.23	GQ323864*	GQ323931*
<i>P. breviceps</i>	NG	−5.75	145.23	GQ323863*	GQ323930*
<i>P. breviceps</i>	NG	−5.93	146.6	GQ323865*	GQ323932*
<i>P. breviceps</i>	NG	−5.93	141.7	GQ323859*	GQ323926*
<i>P. breviceps</i>	NG	−5.93	141.7	GQ323861*	GQ323928*
<i>P. breviceps</i>	NG	−5.1	141.7	GQ323862*	GQ323929*
<i>P. breviceps</i>	NG	−5.08	141.5	GQ323860*	GQ323927*
<i>P. breviceps</i>	Indonesia	−4.00	138.2	GQ323837*	GQ323904*
<i>P. breviceps</i>	Indonesia	−5.62	132.97	GQ323853*	GQ323920*
<i>P. breviceps</i>	Indonesia	−5.62	132.97	GQ323854*	GQ323921*
<i>P. breviceps</i>	Australia	−33.63	151.28	GQ323882*	GQ323949*
<i>P. breviceps</i>	Australia	−33.72	151.07	GQ323883*	GQ323950*
<i>P. breviceps</i>	Australia	−28.82	153.28	GQ323886*	GQ323953*
<i>P. breviceps</i>	Australia	−33.05	151.40	GQ323881*	GQ323948*
<i>P. breviceps</i>	Australia	−28.63	153.61	GQ323884*	GQ323951*
<i>P. breviceps</i>	Australia	−27.63	153.25	GQ323885*	GQ323952*
<i>P. breviceps</i>	Australia	−24.973	147.993	GQ323880*	GQ323947*
<i>P. breviceps</i>	Australia	−17.61	145.50	GQ323878*	GQ323945*
<i>P. breviceps</i>	Australia	−17.61	145.50	GQ323879*	GQ323946*

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. breviceps</i>	Australia	-37.93	140.93	GQ323873*	GQ323940*
<i>P. breviceps</i>	Australia	-36.52	140.74	GQ323871*	GQ323938*
<i>P. breviceps</i>	Australia	-36.52	140.74	GQ323872*	GQ323939*
<i>P. breviceps</i>	Australia	-37.70	140.73	GQ323876*	GQ323943*
<i>P. breviceps</i>	Australia	-37.90	140.99	GQ323875*	GQ323942*
<i>P. breviceps</i>	Australia	-36.77	145.50	GQ323874*	GQ323941*
<i>P. breviceps</i>	Australia	-37.73	145.14	GQ323877*	GQ323944*
<i>P. breviceps</i>	Australia	-11.558	130.933	GQ323870*	GQ323937*
<i>P. abidi</i>	PNG	-3.42	142.1	GQ323836*	GQ323903*
<i>P. abidi</i>	PNG	-3.42	142.1	GQ323835*	GQ323902*
<i>P. abidi</i>	PNG	-3.42	142.1	GQ323834*	GQ323901*
<i>P. ariel</i>	Australia	-	-	MT537830**	-
<i>P. ariel</i>	Australia	-	-	MT537766**	-
<i>P. ariel</i>	Australia	-	-	MT537775**	-
<i>P. ariel</i>	Australia	-	-	MT537861**	-
<i>P. ariel</i>	Australia	-	-	MT537786**	-
<i>P. ariel</i>	Australia	-	-	MT537846**	-
<i>P. ariel</i>	Australia	-	-	MT537811**	-
<i>P. ariel</i>	Australia	-12.833	132.817	MT537757**	-
<i>P. ariel</i>	Australia	-16.183	123.617	MT537795**	-
<i>P. ariel</i>	Australia	-13.485	132.250	MT537865**	-
<i>P. ariel</i>	Australia	-13.485	132.250	MT537779**	-
<i>P. ariel</i>	Australia	-12.559	130.977	MT537835**	-
<i>P. ariel</i>	Australia	-12.558	130.973	MT537825**	-
<i>P. ariel</i>	Australia	-12.558	130.972	MT537843**	-
<i>P. ariel</i>	Australia	-12.559	130.973	MT537860**	-
<i>P. ariel</i>	Australia	-11.267	132.199	MT537840**	-
<i>P. ariel</i>	Australia	-11.267	132.199	MT537745**	-
<i>P. ariel</i>	Australia	-15.905	128.128	MT537796**	-
<i>P. ariel</i>	Australia	-15.905	128.128	MT537850**	-
<i>P. ariel</i>	Australia	-13.487	132.248	MT537750**	-
<i>P. ariel</i>	Australia	-13.557	132.287	MT537863**	-
<i>P. ariel</i>	Australia	-13.558	132.291	MT537792**	-
<i>P. ariel</i>	Australia	-13.941	131.016	MT537770**	-
<i>P. ariel</i>	Australia	-14.333	131.012	MT537866**	-
<i>P. ariel</i>	Australia	-16.051	130.402	MT537837**	-
<i>P. ariel</i>	Australia	-16.050	130.399	MT537800**	-
<i>P. ariel</i>	Australia	-17.069	125.247	MT537832**	-
<i>P. ariel</i>	Australia	-12.679	132.813	MT537746**	-
<i>P. ariel</i>	Australia	-12.679	132.813	MT537763**	-
<i>P. ariel</i>	Australia	-12.928	132.538	MT537793**	-
<i>P. ariel</i>	Australia	-12.928	132.538	MT537749**	-

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. ariel</i>	Australia	-12.928	132.538	MT537772**	-
<i>P. ariel</i>	Australia	-12.928	132.538	MT537858**	-
<i>P. ariel</i>	Australia	-13.256	132.370	MT537782**	-
<i>P. ariel</i>	Australia	-13.256	132.370	MT537785**	-
<i>P. ariel</i>	Australia	-12.864	132.809	MT537862**	-
<i>P. ariel</i>	Australia	-15.350	131.244	MT537788**	-
<i>P. ariel</i>	Australia	-15.340	131.226	MT537753**	-
<i>P. ariel</i>	Australia	-15.339	131.226	MT537844**	-
<i>P. ariel</i>	Australia	-15.350	131.244	MT537851**	-
<i>P. ariel</i>	Australia	-15.340	131.226	MT537755**	-
<i>P. ariel</i>	Australia	-13.576	132.255	MT537809**	-
<i>P. ariel</i>	Australia	-11.759	130.634	MT537805**	-
<i>P. ariel</i>	Australia	-12.439	130.744	MT537816**	-
<i>P. ariel</i>	Australia	-12.544	131.080	MT537807**	-
<i>P. ariel</i>	Australia	-11.501	130.447	MT537842**	-
<i>P. ariel</i>	Australia	-14.148	132.194	MT537787**	-
<i>P. ariel</i>	Australia	-14.149	132.194	MT537848**	-
<i>P. ariel</i>	Australia	-16.758	137.447	MT537833**	-
<i>P. ariel</i>	Australia	-11.403	130.575	MT537744**	-
<i>P. ariel</i>	Australia	-11.406	130.566	MT537791**	-
<i>P. ariel</i>	Australia	-11.407	130.566	MT537747**	-
<i>P. ariel</i>	Australia	-11.402	130.576	MT537773**	-
<i>P. ariel</i>	Australia	-11.406	130.566	MT537827**	-
<i>P. ariel</i>	Australia	-11.341	130.546	MT537794**	-
<i>P. ariel</i>	Australia	-11.363	130.535	MT537790**	-
<i>P. ariel</i>	Australia	-11.408	130.566	MT537764**	-
<i>P. ariel</i>	Australia	-11.363	130.535	MT537815**	-
<i>P. ariel</i>	Australia	-11.363	130.535	MT537804**	-
<i>P. ariel</i>	Australia	-11.408	130.566	MT537776**	-
<i>P. ariel</i>	Australia	-11.408	130.566	MT537768**	-
<i>P. ariel</i>	Australia	-11.408	130.566	MT537759**	-
<i>P. ariel</i>	Australia	-11.403	130.574	MT537847**	-
<i>P. ariel</i>	Australia	-11.403	130.575	MT537856**	-
<i>P. ariel</i>	Australia	-16.444	136.075	MT537784**	-
<i>P. ariel</i>	Australia	-12.961	131.165	MT537752**	-
<i>P. ariel</i>	Australia	-18.695	138.492	MT537859**	-
<i>P. ariel</i>	Australia	-16.716	125.461	MT537839**	-
<i>P. ariel</i>	Australia	-12.566	132.319	MT537813**	-
<i>P. ariel</i>	Australia	-11.600	130.700	MT537761**	-
<i>P. breviceps</i>	Australia	-28.500	152.433	MT537765**	-
<i>P. breviceps</i>	Australia	-28.617	152.417	MT537762**	-
<i>P. breviceps</i>	Australia	-36.317	149.917	MT537808**	-

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. breviceps</i>	Australia	-28.467	152.550	MT537803**	-
<i>P. breviceps</i>	Australia	-36.600	149.383	MT537806**	-
<i>P. breviceps</i>	Australia	-34.783	150.583	MT537760**	-
<i>P. breviceps</i>	Australia	-35.550	150.267	MT537767**	-
<i>P. breviceps</i>	Australia	-35.133	150.717	MT537774**	-
<i>P. notatus</i>	Australia	-	-	MT537831**	-
<i>P. notatus</i>	Australia	-	-	MT537838**	-
<i>P. notatus</i>	Australia	-35.300	148.217	MT537777**	-
<i>P. notatus</i>	Australia	-37.850	147.083	MT537828**	-
<i>P. notatus</i>	Australia	-35.289	149.150	MT537836**	-
<i>P. notatus</i>	Australia	-35.250	149.167	MT537857**	-
<i>P. notatus</i>	Australia	-35.250	149.283	MT537801**	-
<i>P. notatus</i>	Australia	-36.217	148.133	MT537789**	-
<i>P. notatus</i>	Australia	-35.317	149.250	MT537799**	-
<i>P. notatus</i>	Australia	-35.258	149.083	MT537754**	-
<i>P. notatus</i>	Australia	-37.344	149.650	MT537864**	-
<i>P. notatus</i>	Australia	-38.330	145.000	MT537853**	-
<i>P. notatus</i>	Australia	-37.750	145.700	MT537780**	-
<i>P. notatus</i>	Australia	-37.750	142.030	MT537852**	-
<i>P. notatus</i>	Australia	-36.830	148.170	MT537751**	-
<i>P. breviceps</i>	USA	47.717	-122.2	MH310446***	MH310590***
<i>P. breviceps</i>	USA	47.717	-122.2	MH310447***	MH310591***
<i>P. breviceps</i>	USA	47.717	-122.2	MH310582***	MH310724***
<i>P. breviceps</i>	USA	47.717	-122.2	MH310583***	MH310725***
<i>P. breviceps</i>	USA	40.085	-74.215	MH310448***	MH310592***
<i>P. breviceps</i>	USA	42.124	-77.035	MH310449***	MH310593***
<i>P. breviceps</i>	USA	39.384	-76.658	MH310450***	MH310594***
<i>P. breviceps</i>	USA	39.384	-76.658	MH310451***	MH310595***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310452***	MH310596***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310453***	MH310597***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310454***	MH310598***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310455***	MH310599***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310456***	MH310600***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310457***	MH310601***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310458***	MH310602***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310459***	MH310603***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310460***	MH310604***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310461***	MH310605***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310462***	MH310606***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310463***	MH310607***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310464***	-
<i>P. breviceps</i>	USA	29.639	-95.618	MH310465***	-

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. breviceps</i>	USA	29.639	-95.618	MH310466***	MH310608***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310467***	MH310609***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310468***	MH310610***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310469***	MH310611***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310470***	MH310612***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310471***	MH310613***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310472***	MH310614***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310473***	MH310615***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310474***	MH310616***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310475***	MH310617***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310476***	-
<i>P. breviceps</i>	USA	29.639	-95.618	MH310477***	MH310618***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310478***	MH310619***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310479***	MH310620***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310480***	MH310621***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310481***	MH310622***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310482***	MH310623***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310483***	MH310624***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310484***	MH310625***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310485***	MH310626***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310486***	MH310627***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310487***	MH310628***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310488***	MH310629***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310489***	MH310630***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310490***	MH310631***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310491***	MH310632***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310492***	MH310633***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310493***	MH310634***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310494***	MH310635***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310495***	MH310636***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310496***	MH310637***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310497***	MH310638***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310498***	MH310639***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310499***	MH310640***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310500***	MH310641***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310501***	MH310642***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310502***	MH310643***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310503***	MH310644***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310504***	MH310645***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310505***	MH310646***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310506***	MH310647***
<i>P. breviceps</i>	USA	29.639	-95.618	MH310507***	MH310648***

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. breviceps</i>	USA	29.639	−95.618	MH310508***	MH310649***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310509***	MH310650***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310510***	MH310651***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310511***	MH310652***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310512***	MH310653***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310513***	MH310654***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310514***	MH310655***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310515***	MH310656***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310516***	MH310657***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310517***	MH310658***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310518***	MH310659***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310519***	MH310660***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310520***	MH310661***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310521***	MH310662***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310522***	MH310663***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310523***	MH310664***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310524***	MH310665***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310525***	MH310666***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310526***	MH310667***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310527***	MH310668***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310528***	MH310669***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310529***	MH310670***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310530***	MH310671***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310531***	MH310672***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310532***	MH310673***
<i>P. breviceps</i>	USA	32.742	−96.824	MH310536***	MH310678***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310537***	MH310679***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310538***	MH310680***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310539***	MH310681***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310540***	MH310682***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310541***	MH310683***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310542***	MH310684***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310543***	MH310685***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310544***	MH310686***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310545***	MH310687***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310547***	MH310689***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310548***	MH310690***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310549***	MH310691***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310550***	MH310692***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310551***	MH310693***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310552***	MH310694***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310553***	MH310695***

Species	Region	Latitude	Longitude	GenBank accession	
				ND2	ND4
<i>P. breviceps</i>	USA	29.639	−95.618	MH310554***	MH310696***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310555***	MH310697***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310556***	MH310698***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310557***	MH310699***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310558***	MH310700***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310559***	MH310701***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310560***	MH310702***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310561***	MH310703***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310562***	MH310704***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310563***	MH310705***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310564***	MH310706***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310546***	MH310688***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310565***	MH310707***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310566***	MH310708***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310567***	MH310709***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310568***	MH310710***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310569***	MH310711***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310570***	MH310712***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310571***	MH310713***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310572***	MH310714***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310573***	MH310715***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310574***	MH310716***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310575***	MH310717***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310576***	MH310718***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310577***	MH310719***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310578***	MH310720***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310579***	MH310721***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310580***	MH310722***
<i>P. breviceps</i>	USA	29.639	−95.618	MH310581***	MH310723***
<i>P. breviceps</i>	USA	-	-	MH310533***	MH310675***
<i>P. breviceps</i>	USA	-	-	MH310534***	MH310676***
<i>P. breviceps</i>	USA	-	-	MH310535***	MH310677***
<i>P. breviceps</i>	USA	45.085	−93.221	MH310584***	MH310726***
<i>P. breviceps</i>	USA	45.085	−93.221	MH310585***	MH310727***
<i>P. breviceps</i>	USA	45.085	−93.221	MH310586***	MH310728***
<i>P. breviceps</i>	USA	45.085	−93.221	MH310587***	MH310729***
<i>P. breviceps</i>	USA	44.268	−105.501	MH310588***	MH310730***
<i>P. breviceps</i>	USA	44.268	−105.501	MH310589***	MH310731***

* Malekian et al. (2010) ** Cremona et al. (2021) *** Campbell et al. (2019)

Table S3 List of recordings from iNaturalist, including information on author, location, year of collection, and link to the recording. Numbers correspond to those used in the study.

Author	Year	Territory	Latitude	Longitude	Link
vinci1000	2023	New South Wales	−34.392152	150.847898	https://www.inaturalist.org/observations/176241139
Reiner Richter	2020	Victoria	−37.88	145.39	https://www.inaturalist.org/observations/61469067
Joel Poyitt	2020	New South Wales	−34.140221	151.021482	https://www.inaturalist.org/observations/48751690
Jess Roberts	2021	Victoria	−37.879406	147.864605	https://www.inaturalist.org/observations/73090234
prossington	2021	New South Wales	−33.693493	150.596895	https://www.inaturalist.org/observations/97080032
ecoem22	2023	New South Wales	−31.864755	151.404781	https://www.inaturalist.org/observations/174244813
Mononymous	2023	Victoria	−37.152754	142.561662	https://www.inaturalist.org/observations/159621790
mirv	2022	New South Wales	−34.856246	150.58129	https://www.inaturalist.org/observations/164176541
Jess Roberts	2021	Victoria	−37.879406	147.864605	https://www.inaturalist.org/observations/72994316
afisch80	2022	Victoria	−37.915608	145.568654	https://www.inaturalist.org/observations/142284748
gggpellas	2023	Victoria	−37.823076	148.135034	https://www.inaturalist.org/observations/176065548
ron_willemsen	2023	Victoria	−37.949747	145.896898	https://www.inaturalist.org/observations/162270977
takesa	2023	New South Wales	−35.506984	150.22772	https://www.inaturalist.org/observations/188125744
Colin Trainor	2023	Queensland	−28.20745	153.191026	https://www.inaturalist.org/observations/181333471
Donald Hobern	2018	New South Wales	−36.787041	149.54128	https://www.inaturalist.org/observations/11984489
Josh Magro	2023	New South Wales	−33.607796	150.972719	https://www.inaturalist.org/observations/192631065
christinerand	2023	New South Wales	−32.224673	152.453852	https://www.inaturalist.org/observations/173316259
koru	2022	Victoria	−37.745692	145.73065	https://www.inaturalist.org/observations/107032634
Mononymous	2020	Victoria	−37.388941	144.267417	https://www.inaturalist.org/observations/65485862
Michael Tervo	2022	Queensland	−26.8256	152.9136	https://www.inaturalist.org/observations/191741003

Author	Year	Territory	Latitude	Longitude	Link
bpalmerau	2020	New South Wales	-33.714225	151.087872	https://www.inaturalist.org/observations/39642885
Colin Trainor	2023	Queensland	-28.233457	153.198466	https://www.inaturalist.org/observations/187490917
lynchyyywildlife11	2023	New South Wales	-34.090249	150.989437	https://www.inaturalist.org/observations/183818916
vinci1000	2023	New South Wales	-34.237251	150.920049	https://www.inaturalist.org/observations/189757148
Colin Trainor	2023	Queensland	-28.207741	153.191071	https://www.inaturalist.org/observations/181333469
Jason Brown	2022	New South Wales	-33.406046	151.367961	https://www.inaturalist.org/observations/117283989
Nimzee	2021	Victoria	-37.864223	145.32056	https://www.inaturalist.org/observations/81286855
vinci1000	2023	New South Wales	-34.409094	150.85002	https://www.inaturalist.org/observations/156388482
Mononymous	2020	Victoria	-37.391974	144.262974	https://www.inaturalist.org/observations/66488951
marlonnewling	2023	New South Wales	-33.639794	151.323802	https://www.inaturalist.org/observations/167342570
Louis Backstrom	2021	Queensland	-27.969158	153.18471	https://www.inaturalist.org/observations/103495705
suecee	2022	Victoria	-38.175427	145.132317	https://www.inaturalist.org/observations/110834475
Colin Trainor	2023	Queensland	-27.976024	153.317171	https://www.inaturalist.org/observations/150803255
rikef	2022	Victoria	-37.873998	145.307761	https://www.inaturalist.org/observations/105155458
Colin Trainor	2023	Queensland	-28.218954	153.195256	https://www.inaturalist.org/observations/181333466
Louis O'Neill	2023	New South Wales	-33.548436	151.30258	https://www.inaturalist.org/observations/150044172
Reiner Richter	2021	Victoria	-37.867126	144.165778	https://www.inaturalist.org/observations/72673901
vinci1000	2023	New South Wales	-34.441378	150.800761	https://www.inaturalist.org/observations/156014673
Colin Trainor	2023	Queensland	-28.232257	153.137494	https://www.inaturalist.org/observations/158013696
Louis O'Neill	2022	Victoria	-37.823016	148.160442	https://www.inaturalist.org/observations/115887228
ron_willemsen	2023	Victoria	-37.987861	145.481369	https://www.inaturalist.org/observations/163274517
vinci1000	2023	New South Wales	-34.400909	150.852992	https://www.inaturalist.org/observations/174834007
fw_bouddi	2023	New South Wales	-33.527799	151.345722	https://www.inaturalist.org/observations/187002027

Author	Year	Territory	Latitude	Longitude	Link
ron_willemsen	2023	Victoria	−37.943616	145.240602	https://www.inaturalist.org/observations/194347882
rikef	2023	Victoria	−37.840757	145.227171	https://www.inaturalist.org/observations/194015574
twan3253	2019	New South Wales	−33.759051	151.143038	https://www.inaturalist.org/observations/29118476
regnans	2023	Victoria	−37.910841	145.212145	https://www.inaturalist.org/observations/181343088
grace1066	2023	New South Wales	−33.794686	151.038285	https://www.inaturalist.org/observations/186671043
archie_xyz	2023	Victoria	−37.965191	145.607698	https://www.inaturalist.org/observations/146447764
koru	2023	Victoria	−37.693017	145.742628	https://www.inaturalist.org/observations/161576801
koru	2022	Victoria	−37.626874	145.716246	https://www.inaturalist.org/observations/135100055
rikef	2022	Victoria	−37.930213	145.272385	https://www.inaturalist.org/observations/133197488
rikef	2023	Victoria	−37.993196	145.37144	https://www.inaturalist.org/observations/170424265
janineduffy	2023	Victoria	−38.046519	144.063038	https://www.inaturalist.org/observations/194949511
vinci1000	2024	New South Wales	−34.406594	150.853974	https://www.inaturalist.org/observations/195455520
vinci1000	2024	New South Wales	−34.4046	150.859709	https://www.inaturalist.org/observations/196266437
vinci1000	2024	New South Wales	−34.40225	150.860734	https://www.inaturalist.org/observations/196266637
melvinxu	2024	Victoria	−37.771822	145.651505	https://www.inaturalist.org/observations/197964053
graemelunt	2024	Victoria	−37.689553	143.996914	https://www.inaturalist.org/observations/198498972
caliginous	2024	Victoria	−37.855953	145.104199	https://www.inaturalist.org/observations/198639821
graemelunt	2024	Victoria	−37.689204	143.997228	https://www.inaturalist.org/observations/198992937
bluebowerstudio	2024	New South Wales	−36.4382	150.056635	https://www.inaturalist.org/observations/199885817
bluebowerstudio	2024	New South Wales	−36.438216	150.056706	https://www.inaturalist.org/observations/199885886
bluebowerstudio	2024	New South Wales	−36.438319	150.056431	https://www.inaturalist.org/observations/199886205
bluebowerstudio	2024	New South Wales	−36.438315	150.056764	https://www.inaturalist.org/observations/200078108
bluebowerstudio	2024	New South Wales	−36.438294	150.0568	https://www.inaturalist.org/observations/200078163

Author	Year	Territory	Latitude	Longitude	Link
porkytama	2024	Victoria	−37.644749	147.362592	https://www.inaturalist.org/observations/200161833
caliginous	2024	Victoria	−37.855517	145.105697	https://www.inaturalist.org/observations/200265293
mononymous	2024	Victoria	−37.393973	144.263354	https://www.inaturalist.org/observations/200315664

Table S4: List of primers used for amplification of three genetic markers (ND2, ND4, and ω -globin).

Name	Targeted genes	Primer sequence (5'→3')	Author
mmND2.1	ND2	GCACCATTCACCTTYTGAGT	Osborne & Christidis (2001)
mrND2c	ND2	GATTTGCGTTCGAATGTAGCAAG	Osborne & Christidis (2001)
mt10812H	ND4	TGACTACCAAAAGCTCATGTAGAAGC	Arevalo et al. (1994)
mt11769L	ND4	TTTTACTTGGATTTGCACCA	Arevalo et al. (1994)
G314	ω -globin	GGAATCATGGCAAGAAGGTG	Wheeler et al. (2001)
G2526	ω -globin	CCGGAGGTGTTYAGTGGTATTTTC	Arevalo et al. (1994)

Table S5 Pair-wise p-distance values between European and USA populations and four *Petaurus* species (*P. ariel*, *P. breviceps*, *P. notatus*, and *P. papuanus*) based on ND2 mitochondrial marker.

	Europe	USA	<i>Petaurus ariel</i>	<i>Petaurus breviceps</i>	<i>Petaurus notatus</i>	<i>Petaurus papuanus</i>
Europe						
USA	0.0038					
<i>Petaurus ariel</i>	0.0940	0.0937				
<i>Petaurus breviceps</i>	0.1307	0.1290	0.1267			
<i>Petaurus notatus</i>	0.1059	0.1052	0.1152	0.0959		
<i>Petaurus papuanus</i>	0.0761	0.0748	0.0997	0.1216	0.1062	

Table S6 Number of parsimony-informative sites identified in European and U.S. captive populations across three genetic markers (ND2 and ND4).

Population	Number of sequences (N)	Marker	Parsimony-informative sites
Europe	76	ND2	15
	76	ND4	17
USA	144	ND2	14
	141	ND4	25

Table S7 Comparisons of the three studied groups using one-way ANOVA and Tukey post-hoc test for all parameters. The groups are in the table under the following abbreviations: PB = *Petaurus breviceps*, PN = *Petaurus notatus*, and PP = *Petaurus papuanus*.

Call parameter	ANOVA			
	p-value ($\alpha=0.05$)	PB/PN	PP/PN	PP/PB
Rate	0.004	0.028	0.568	0.013
Dur bark	0.158	-	-	-
Int	0.042	0.067	0.959	0.144
Peak	0.14	-	-	-
Peak f0	0.358	-	-	-
Max f0	0.144	-	-	-

Table S8 Factor loadings of the first two principal components.

Parameter	PC1	PC2
Rate (bark/s)	-0.48	0.8
Bark duration (s)	0.4	-0.31
Interval (s)	0.5	-0.81
Peak frequency (Hz)	0.58	0.44
Peak f0 (Hz)	0.86	0.4
Maximum f0 (Hz)	0.89	0.35

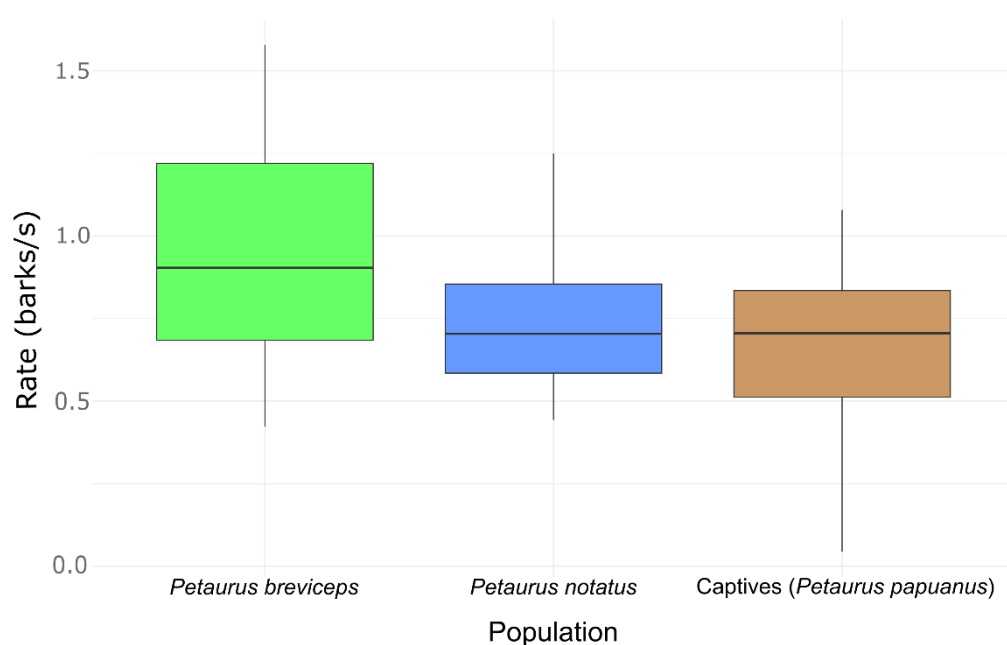


Fig. S1 Differences in the Rate parameter across species. Boxplot compares the Rate parameter among species, indicating interspecific variation among each group.

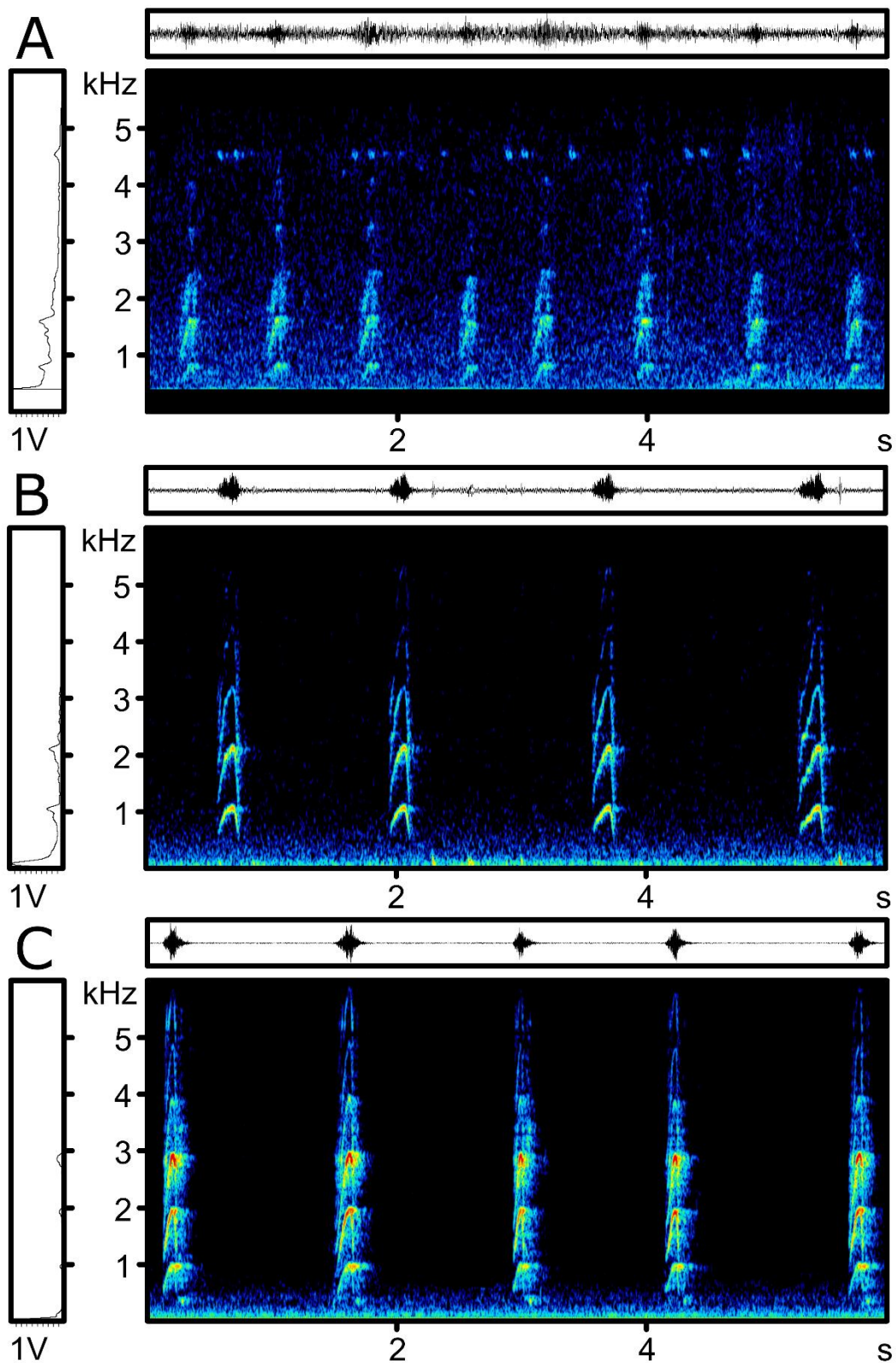


Fig. S2 Spectrograms of barking calls across three *Petaurus* species. Spectrograms illustrate vocalizations from the captive population of *P. breviceps* (A), *P. notatus* (B), and the captive population of *P. papuanus* (C).