

Table S1. Sample details of additional *Xanthonycticebus* specimens used in the study for the morphological analysis and taxonomic revision, including GenBank accession numbers of additional mitochondrial sequences.

Species name	Common name	Specimen No.	Map ID	Provider	Provenance	Sex	HB	SL	ML	PL	PB	BO	SB	BC	RH	BZ	Reference	Genbank Acc. no.(s)
<i>X. intermedius</i>	Northern pygmy loris	FMNH32499	n/a	FMNH	Lai Chau, Vietnam	M	248	50.7	33.29	19.34	17.2	33.93	22.64	10.51	14.02	35.11	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	FMNH38911	n/a	FMNH	Thy-Ba, near Hanoi, Vietnam	F	214	50.46	30.33	19.46	16.39	32.87	21.98	9.72	14.04	32.46	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	FMNH38912	n/a	FMNH	Lung Linh, Ha Giang, Vietnam	M	227	50.85	31.29	21.65	18.12	33.02	21.66	10.73	13.55	34.58	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	HZM069	NL_pygmy	HZM	Hoà Binh, Vietnam		230	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Pozzi et al. 2015	KP410626
<i>X. intermedius</i>	Northern pygmy loris	IZM56	n/a	IZM	Thanh tuong, Na Hang, Vietnam	F	n/a	49.81	32.54	19.89	17.47	33.83	21.75	10.49	14.01	34.7	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	L10	L10	Hải	Hòa Bình, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518128 OQ555508 OQ555595
<i>X. intermedius</i>	Northern pygmy loris	L11	L11	Hải	Hòa Bình, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518129 OQ555509 OQ555596
<i>X. intermedius</i>	Northern pygmy loris	L12	L12	Hải	Hòa Bình, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518130 OQ555510 OQ555597
<i>X. intermedius</i>	Northern pygmy loris	L13	L13	Hải	Hòa Bình, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518131 OQ555511 OQ555598
<i>X. intermedius</i>	Northern pygmy loris	L14	L14	Hải	Ba Vì, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518132 OQ555512 OQ555572
<i>X. intermedius</i>	Northern pygmy loris	L15	L15	Hải	Ba Vì, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518133 OQ555513 OQ555573
<i>X. intermedius</i>	Northern pygmy loris	L19	L19	Hải	Lào Cai, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518134 OQ555517 OQ555576
<i>X. intermedius</i>	Northern pygmy loris	L20	L20	Hải	Lào Cai, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518135 OQ555518 OQ555577
<i>X. intermedius</i>	Northern pygmy loris	L23	L23	M. Le	Sa Pa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518136 OQ555521 OQ555578
<i>X. intermedius</i>	Northern pygmy loris	L24	L24	M. Le	Sa Pa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518137 OQ555522 OQ555579
<i>X. intermedius</i>	Northern pygmy loris	L27	L27	M. Le	Quan Hóa - Thanh Hóa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518138 OQ555525 OQ555582
<i>X. intermedius</i>	Northern pygmy loris	L28	L28	M. Le	Quan Hóa - Thanh Hóa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518139 OQ555526

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<i>X. intermedius</i>	Northern pygmy loris	L35	L35	M. Le	Xuân Liên - Thanh Hóa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ555533 OQ555589
<i>X. intermedius</i>	Northern pygmy loris	L39	L39	M. Le	Thanh Hóa, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ555534 OQ555590
<i>X. intermedius</i>	Northern pygmy loris	L9	L9	Hải	Hòa Bình, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ555507 OQ555594
<i>X. intermedius</i>	Northern pygmy loris	HZM71	N18	HZM	Ba Vi, Hà Tây, Vietnam	F	n/a	44.08	27.04	n/a	16.51	28.68	n/a	9.28	9.32	27.95	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	HZM970	n/a	HZM	Lục Yên, Yên Bái, Vietnam	M	n/a	48.95	30.11	19.45	17.39	31.34	20.63	10.32	12.02	31.34	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	MNHN1892-1531	n/a	H. d'Orléans	Cho-Bo, Vietnam		n/a	50.97	30.38	17.96	17.14	35.77	23.51	10.92	13.79	35.72	This study	n/a
<i>X. intermedius</i>	Northern pygmy loris	MNHN1892-1532	n/a	H. d'Orléans	Cho-Bo, Vietnam		n/a	49.26	32.04	17.54	16.39	34.2	22.8	10.74	14.23	35.32	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	MNHN1929-454	n/a	J. Delacour	Kon Tum, Vietnam		n/a	50.93	32.61	17.61	17.43	32.36	23.77	10.34	11.87	33.97	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	443/X84	443	DLM	Lâm Đồng, Vietnam		n/a	54.73	35.31	n/a	18.4	36.42	n/a	11.47	15.71	37.34	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	492/MSx85	492	DLM	Lâm Đồng, Vietnam	M	n/a	n/a	34.72	20.5	17.56	34.02	20.33	10.73	13.56	33.1	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	520/MSx87	520	DLM	Lâm Đồng, Vietnam		n/a	54.91	34.33	20.7	18.99	37.95	25.69	11.47	14.87	37.86	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH33504	n/a	FMNH	near Saigon, Vietnam		n/a	51.52	n/a	20.39	18.52	34.39	22.08	11.96	15.29	35.71	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46824	n/a	FMNH	Buon Ma Thuot, Dak Lak, Vietnam	M	268	51.81	33.7	20.73	18.25	32.92	24.28	10.73	14.58	36.51	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46825	125	FMNH	Buon Ma Thuot, Dak Lak, Vietnam	F	270	54.64	33.64	20.82	18.26	35.7	23.39	10.87	16.54	37.97	This study	OQ555583
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46826	n/a	FMNH	Buon Ma Thuot, Dak Lak, Vietnam	M	263	53.32	35.38	22.91	17.45	35.99	22.9	10.84	14.84	38.5	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46827	n/a	FMNH	Buon Ma Thuot, Dak Lak, Vietnam	M	265	55.56	34.76	22.77	17.72	35.79	22.34	11.04	15.97	37.5	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46828	123	FMNH	Buon Ma Thuot, Dak Lak, Vietnam		256	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ555583
<i>X. pygmaeus</i>	Southern pygmy loris	FMNH46829	n/a	FMNH	Buon Ma Thuot, Dak Lak, Vietnam	F	221	55.48	34.6	21.95	19.69	34.49	23.21	11.42	15.12	38.1	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	HZM1011	N20	Vũ Ngọc Thành	Cánh Rơi, Mã Đà, Đồng Nai, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ5555473 OQ555600
<i>X. pygmaeus</i>	Southern pygmy loris	IZM1879	n/a	Dinh Van C.	An Khê, Gia Lai, Vietnam		n/a	52.09	32.74	20.02	18.51	na	24.06	10.62	14.96	na	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	L1	L1	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ555499 OQ555569

<i>X. pygmaeus</i>	Southern pygmy loris	L16	L16	Hải	Nha Trang, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518116 QO555514 QO555599
<i>X. pygmaeus</i>	Southern pygmy loris	L17	L17	Hải	Nha Trang, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518117 QO555515 QO555574
<i>X. pygmaeus</i>	Southern pygmy loris	L18	L18	Hải	Nha Trang, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518118 QO555516 QO555575
<i>X. pygmaeus</i>	Southern pygmy loris	L25	L25	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518119 QO555523 QO555580
<i>X. pygmaeus</i>	Southern pygmy loris	L26	L26	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518120 QO555524 QO555581
<i>X. pygmaeus</i>	Southern pygmy loris	L29	L29	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518121 QO555527 QO555584
<i>X. pygmaeus</i>	Southern pygmy loris	L3	L3	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518110 QO555501 QO555570
<i>X. pygmaeus</i>	Southern pygmy loris	L30	L30	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518122 QO555528 QO555585
<i>X. pygmaeus</i>	Southern pygmy loris	L31	L31	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518123 QO555529 QO555586
<i>X. pygmaeus</i>	Southern pygmy loris	L32	L32	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518124 QO555530 QO555587
<i>X. pygmaeus</i>	Southern pygmy loris	L33	L33	M. Kenyon	Đào Tiên, Cat Tien, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518125 QO555531 QO555588
<i>X. pygmaeus</i>	Southern pygmy loris	L4	L4	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518111 QO555502 QO555591
<i>X. pygmaeus</i>	Southern pygmy loris	L5	L5	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518112 QO555503 QO555592
<i>X. pygmaeus</i>	Southern pygmy loris	L7	L7	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518114 QO555505 QO555571
<i>X. pygmaeus</i>	Southern pygmy loris	L8	L8	M. Blair	Lâm Đồng, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	QO518115 QO555505 QO555593
<i>X. pygmaeus</i>	Southern pygmy loris	HZM758	n/a	HZM	Ro Côi, Sa Thay, Kon Tum, Vietnam	F	n/a	47.65	30.91	19.03	17.11	31.46	20.86	10.61	12.51	31.44	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	HZM759	N12	HZM	Ro Côi, Sa Thay, Kon Tum, Vietnam	M	260	50.75	31.88	19.44	17.05	34.96	22.56	11.21	13.54	36	This study	n/a

<i>X. pygmaeus</i>	Southern pygmy loris	HZM760	n/a	HZM	Ro Coi, Sa Thay, Kon Tum, Vietnam	F	280	48.05	30.49	18.59	17.5	32.88	20.39	10.24	12.1	33.04	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	HZM873	n/a	HZM	Ro Coi, Sa Thay, Kon Tum, Vietnam	F	320	49.4	31.53	n/a	19.32	34.36	n/a	11.07	13.5	34.75	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	HZM874	874	HZM	Tay Nguyen, Vietnam		n/a	50.53	31.42	19.19	17.56	33.55	n/a	10.5	13.5	34.2	This study	n/a
<i>X. pygmaeus</i>	Southern pygmy loris	NMNH256913	75	NMNH	Dong Nai, Bien Hoa Trang Bom, Vietnam		n/a	n/a	31.91	19.43	16.16	33.57	n/a	9.16	13.77	35.93	This study	OQ518104
<i>X. pygmaeus</i>	Southern pygmy loris	NMNH258234	74	NMNH	Lam Dong, Bao Loc Township, Vietnam		n/a	n/a	33.26	18.32	17.96	35.45	25.22	9.54	14.57	36.54	This study	OQ518103
<i>X. pygmaeus</i>	Southern pygmy loris	NMNH357750	76	NMNH	Binh Dinh an Khe, Vietnam		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	This study	OQ518105 OQ555495 OQ555568
<i>X. sp++</i>	pygmy loris	AMNH87282	64	AMNH	Plateau Bolovens, Laos	M	n/a	52.58	32.81	20.05	17.18	34.25	23.23	11.1	13.12	35.56	This study	n/a
<i>X. sp++</i>	pygmy loris	FMNH37986	137	FMNH	Thateng, Plateau Bolovens, Balikhambay Prov, 90 km NE Pakse, Laos	M	255	50.09	29.85	16.85	17.5	33.44	21.75	8.66	12.94	34.94	This study	n/a

Map ID refers to ID on Figure 1 map or on Figure S5 tree (if shown).

Species and common names are following the taxonomic revision presented here.

+A skull measurement was included in the original description (55) but the skull is no longer available at HZM for remeasurement to include for comparison here.

++We excluded samples from Plateau Bolovens, Laos from any comparisons, as species genetic ID could not be confirmed for them, but they were included in tests for sexual dimorphism.

Abbreviations:

- FMNH: Field Museum of Natural History, Chicago, USA
- HZM: Hanoi Zoological Museum, Hanoi, Vietnam
- NMNH: National Museum of Natural History, Washington, D.C., USA
- DLM: Da Lat Biological Museum, Da Lat, Vietnam
- IZM: IEBR Zoological Museum, Hanoi, Vietnam
- AMNH: American Museum of Natural History, New York, NY, USA
- MNHN: Muséum National d'Histoire Naturelle, Paris, France
- HB: Total Head Body Length
- SL: Greatest Skull Length
- ML: Mandible Length
- PL: Palate Length
- PB: Palate Breadth

- BO: Biorbital Breadth
- SB: Staphylion to basion length
- BC: Bicanine Breadth
- RH: Ramus Height
- BZ: Bizygomatic breadth