

Table S1. Tigrina-like specimens and other *Leopardus* individuals analyzed for two different mitochondrial data sets (1- mtND5; 2- mitogenomes, **including mtCyt-b gene**). **mt** = mitochondrial. PUJ = Mammal collection of the Laboratory of Molecular Population Genetics and Evolutionary Biology at the Pontificia Universidad Javeriana (Bogotá, Colombia). IvH = Mammal collection of the Instituto von Humboldt (Villa de Leyva, Colombia).

Taxon	Country	Precise origin of each specimen	mt data set analysed and accession voucher numbers (ID)	References and GenBank accession numbers
<i>L. tigrinus</i> and a new little spotted cat species	Costa Rica	Arenal Cordillera Volcánica Central	1, 2 PUJ ID: lti81	This work GenBank: MG230227.1
	Costa Rica	Guanacaste	1, 2 PUJ ID: lti82	This work GenBank: MG230228.1
	Venezuela	Mesa Bolivar, Mérida	1 PUJ ID: lti29	This work GenBank: MG230207.1
	Colombia	Valdivia, Antioquia	1, 2 PUJ ID: lti68	This work GenBank: MG230196.1
	Colombia	Valdivia, Antioquia	1 PUJ ID: lti38	This work GenBank: MG230202.1
	Colombia	Caucasia, Antioquia	1, 2 PUJ ID: lti53	This work GenBank: MG230198.1
	Colombia	Caucasia, Antioquia	1 PUJ ID: lti25	This work GenBank: MG230210.1
	Colombia	Sonsón, Antioquia	1 PUJ ID: lti12	This work GenBank: MG230214.1
	Colombia	Barbosa, Antioquia	1 PUJ ID: lti3	This work GenBank: MG230216.1
	Colombia	Nevado del Ruiz, Caldas	1, 2 PUJ ID: lti8	This work GenBank: MG230203.1
	Colombia	La Virginia, Risaralda	1, 2 PUJ ID: lti53	This work GenBank: MG230204.1
	Colombia	Apia, Risaralda	1, 2 PUJ ID: lti61	This work GenBank: MG230197.1
	Colombia	Circasia, Quindio	1 PUJ ID: lti35	This work GenBank: MG230212.1
	Colombia	Tunja, Boyacá	1 PUJ ID: lti1	This work GenBank: MG230218.1
	Colombia	Chita, Boyacá	1, 2 PUJ ID: lti2	This work GenBank: MG230219.1
	Colombia	Coper, Boyacá	1 PUJ ID: lti7	This work GenBank: MG230220.1
	Colombia	Chingaza National Park, Cundinamarca	1 PUJ ID: lti19	This work GenBank: MG230201.1
	Colombia	Chingaza National Park, Cundinamarca	1 PUJ ID: lti33	This work GenBank: MG230205.1
	Colombia	El Refugio, La Macarena, Meta	1 PUJ ID: lti14	This work GenBank: MG230213.1
	Colombia	Pitalito, Huila	1 PUJ ID: lti28	This work GenBank: MG230208.1
	Colombia	San Agustín, Huila	1 PUJ ID: lti30	This work GenBank: MG230206.1
	Colombia	La Plata, Huila	1 PUJ ID: lti13	This work GenBank: MG230222.1
	Colombia	Jamundí, Valle del Cauca	1 PUJ ID: lti40	This work GenBank: MG230200.1
	Colombia	Ginebra, Valle del	1	This work

		Cauca	PUJ ID: lti9	GenBank: MG230221.1
	Colombia	Florencia, Caquetá	1 PUJ ID: lti11	This work GenBank: MG230215.1
	Colombia	Galera Volcano, Nariño	1, 2 IvH ID: 5857	This work GenBank: MG230232.1
	Ecuador	Concepción, Esmeraldas	1 PUJ ID: lti26	This work GenBank: MG230225.1
	Ecuador	Intag, Imbabura	1, 2 PUJ ID: lti42	This work GenBank: MG230224.1
	Ecuador	Papallacta, Napo	1 PUJ ID: lti43	This work GenBank: MG230199.1
	Ecuador	Pajuli, Cotopaxi	1, 2 PUJ ID: lti22	This work GenBank: MG230223.1
	Peru	Lamas, San Martín	1 PUJ ID: lti21	This work GenBank: MG230211.1
	Bolivia	Cotapata National Park, Yungas, La Paz	1 PUJ ID: lti27	This work GenBank: MG230209.1
	Bolivia	Cotapata National Park, Yungas, La Paz	1 PUJ ID: lti36	This work GenBank: MG230217.1
	Argentina	Border Salta and Tucumán	1 PUJ ID: lti15	This work GenBank: MG230226.1
	Argentina	Puerto Iguazú, Misiones	1, 2 PUJ ID: lti16	This work GenBank: MG230229.1
	Argentina	Puerto Iguazú, Misiones	1, 2 PUJ ID: lti17	This work GenBank: MG230230.1
	Argentina	San Pedro, Misiones	1, 2 PUJ ID: lti18	This work GenBank: MG230231.1
	Brazil	Dois Vizinhos, Paraná	1, 2 PUJ ID: lti83	This work GenBank: MG230233.1
	Brazil	Dois Vizinhos, Paraná	1, 2 PUJ ID: lti84	This work GenBank: MG230234.1
	Brazil	Unknown origin	1	GenBank (Johnson & O'Brien 1997)
	Brazil	Unknown origin	1, 2	GenBank (Li et al. 2016)
<i>L. colocola</i>	Unknown origin	Unknown origin <i>colocola</i>	1	GenBank (Johnson & O'Brien 1997)
	Brazil	Unknown origin <i>braccatus</i>	1, 2	GenBank (Li et al. 2016)
	Brazil	Unknown origin <i>braccatus</i>	1, 2	GenBank (Li et al. 2016)
<i>L. geoffroyi</i>	Bolivia	Puerto Suárez, Santa Cruz	1, 2 PUJ ID: lge08	This work GenBank: MG230235.1
	Argentina	Unknown origin	1	GenBank (Johnson & O'Brien 1997)
	Argentina	Unknown origin	1, 2	GenBank (Li et al. 2016)
	Argentina	Unknown origin	1, 2	GenBank (Li et al. 2016)
<i>L. guigna</i>	Chile	Unknown origin	1	GenBank (Johnson & O'Brien 1997)
	Chile	Unknown origin	1, 2	GenBank (Li et al. 2016)
	Chile	Unknown origin	1, 2	GenBank (Li et al. 2016)
	Chile	Unknown origin	1	GenBank (Napolitano et al. 2008)
	Chile	Unknown origin	1	GenBank (Napolitano et al. 2008)
<i>L. jacobita</i>	Bolivia	La Paz	1, 2 PUJ ID: lja14	This work GenBank: MG230236.1
	Bolivia	Cochabamba	1, 2 PUJ ID: lja21	This work GenBank: MG230237.1
	Bolivia	Unknown origin	1, 2	GenBank (Li et al. 2016)

	Bolivia	Unknown origin	1, 2	GenBank (Li et al. 2016)
<i>L. pardalis</i>	Colombia	Guainía River, Guainía	1, 2 PUJ ID: lpa35	This work GenBank: MG230239.1
	Colombia	San Juan Socó, Loretoyaku River, Amazonas	1, 2 PUJ ID: lpa67	This work GenBank: MG230240.1
	Peru	Floresta, Alto Uyacali	1, 2 PUJ ID: lpa104	This work GenBank: MG230241.1
	Brazil	Humaitá, Madeira River, Amazonas	1, 2 PUJ ID: lpa685	This work GenBank: MG230242.1
	Brazil	Negro River, Amazonas	1 PUJ ID: lpa77	This work GenBank: MG230238.1
	Unknown origin	Unknown origin	1, 2	GenBank (Li et al. 2016)
<i>L. wiedii</i>	Colombia	Chigorodó, Antioquia	1, 2 PUJ ID: lwi111	This work GenBank: MG230244.1
	Colombia	Leticia, Amazonas	1, 2 PUJ ID: lwi95	This work GenBank: MG230245.1
	Ecuador	Tena, Napo	1, 2 PUJ ID: lwi118	This work GenBank: MG230243.1
<i>H. yagouaroundi</i>	Guatemala	Unknown origin	1	GenBank (Johnson & O'Brien 1997)
	Colombia	Puerto Escondido, Córdoba	1, 2 PUJ ID: pya20	This work GenBank: MG230249.1
	Ecuador	Sarayacu, Pastaza	1, 2 PUJ ID: pya77	This work GenBank: MG230248.1
	Peru	Tingo Maria, Huánuco	1, 2 PUJ ID: pya22	This work GenBank: MG230250.1
	Unknown origin	Unknown origin	1, 2	GenBank (Li et al. 2016)
	Unknown origin	Unknown origin	1, 2	GenBank (Li et al. 2016)
<i>F. catus</i>	Colombia	Bogotá	1, 2 PUJ ID: fca1	This work GenBank: MG230246.1
	Colombia	Bogotá	1, 2 PUJ ID: fca2	This work GenBank: MG230247.1
	Colombia	Bogotá	1 PUJ ID: fca3	This work GenBank: MG230251.1

Table S2. Mitochondrial and microsatellite primers employed in this work. **(A)** The Long-range amplification mitochondrial primers used. **(B)** Nuclear microsatellite primers used.

(A)

Primer name	Primer sequence (5' to 3')	Amplicon sizes (bp)	Genes contained in each amplicon
LT1F LT1R	ATGACTAATCAGCCCATGAT AAGCATCCCACCTCAAACAT	5,011	<i>Control region, tRNA-Phe, 12s rRNA, tRNA-Val, 16s rRNA, tRNA-Leu, ND1</i>
LT2F LT2R	AAGAAATATGTCTGACAAAA TGATCTGCATCTATACTGA	4,015	<i>tRNA-Ile, tRNA-Gln, tRNA-Met, ND2, tRNA-Trp, tRNA-Ala, tRNA-Asn, tRNA-Cys, tRNA-Tyr, COI, tRNA-Ser, tRNA-Asp and COII</i>
LT3F LT3R	CATTAAGAAGCTAAATAAGC GTGCAACTCCAAATAAAAGT	4,050	<i>tRNA-Lys, ATP8, ATP6, COIII, tRNA-Gly, ND3, tRNA-Arg, ND4L, ND4, tRNA-His, tRNA-Ser and tRNA-Leu</i>
LT4F LT4R	TAAAAGTAATAAACCTATTT TGGGACATCTCGATGGACTA	3,680	<i>ND5, ND6, tRNA-Glu, Cyt-b, tRNA-Thr and</i>

			<i>tRNA-Pro</i>
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(B)

Fca08: ACTGTAAATTTCTGAGCTGGCC

TGACAGACTGTTCTGGGTATGG

Fca43: GAGCCACCCTAGCACATATAACC

AGACGGGATTGCATGAAAAG

Fca45: TGAAGAAAAGAATCAGGCTGTG

GTATGAGCATCTCTGTGTTCGTG

Fca96: CACGCCAAACTCTATGCTGA

CAATGTGCCGTCCAAGAAC

Fca126: GCCCCTGATACCCTGAATG

CTATCCTTGCTGGCTGAAGG

Fca225: CTGTCTCCCTCCTGTTCTG

TACCCACAGAACCTTCCTGC