

12S-16S

Lineage	Haplotype	2345556667	7888999001	111 1111111
	H1	CCTCGGTTGC	TGTAAAACCA	ATATCCC
II	H2	....A.....	..C.-A....	.C...T.
	H3	...TA.....	....-AG...	G....T.
I	H4	..C.A...AT	C...--G.T.	....TTT
	H5	.T..A.C...	....--G...	....TT
III	H6	.T..A.C...	.A.--G...	....TT
	H7	TT..A..C..	....--G..G	....TT
	H8	TT..A.C...	....--G..G	....TT
IV	H9	....A..C..	...G--G...	..G..TT
	H10	....A..C..	....--G...	..GC.TT
	H11	....A..C..	....--GT..	..GC.TT
	H12	....AA.C..	....--GT..	..GC.TT

A

ADA

Haplotype	11133	33
	00300	23
	67918	17
A1	GGCCC	GG
A2	.....	A.
A3	.....	AT
A4	..G.T	A.
A5	--.T.	A.

B

TF

Haplotype	11
	225
	083
T1	ACT
T2	T.A
T3	TTA

C

Figure S1. Genetic variation of *12S-16S* (mtDNA) and *ADA* and *TF* (nDNA) genes in lions. (A) Haplotypes and variable sites for the *12S-16S* mtDNA region surveyed in lions (total length 1,882 bp). Position 1 corresponds to position 1441 of the domestic cat (*Felis catus*) mtDNA genome (GenBank U20753). The "-" represents a gap and "." matches the nucleotide in the first sequence. Shading indicates a fixed difference in the mtDNA lineage. (B) Haplotypes and variable sites for the *ADA* gene segment surveyed in lions (total length 427 bp). (C) Haplotypes and variable sites for the *TF* gene segment surveyed in lions (total length 427 bp).