

## Short Communication

### Presence of the Endangered Amur tiger *Panthera tigris altaica* in Jilin Province, China, detected using non-invasive genetic techniques

ANTHONY CARAGIULO, YANG KANG, SALISA RABINOWITZ, ISABELA DIAS-FREEDMAN  
SIMONE LOSS, XU-WEI ZHOU, WEI-DONG BAO and GEORGE AMATO

Table S1 Microsatellite multiplexes and PCR thermocycling conditions for the 11 loci used in this study. All PCR reactions utilized the following thermocycling conditions: initial denaturation at 95°C for 15 minutes, 13 cycles of denaturation at 94°C for 30 seconds, touchdown protocol for 1.5 minutes, and elongation at 72°C for 1 minute, followed by 32 cycles of denaturation at 94°C for 30 seconds, annealing temperature for 1.5 minutes, and elongation at 72°C for 1 minute. There was a final elongation at the annealing temperature for 30 minutes. Locus FCA075 and locus FCA225 were not multiplexed with any other loci and were run individually.

Locus	Primer concentration (μM)	Touchdown protocol (°C)	Annealing temperature (°C)
<b>Multiplex 1</b>			
FCA032	0.4	58.4–0.3	56
FCA100	0.6		
FCA124	0.1		
<b>Multiplex 2</b>			
FCA126	0.2	62.4–0.3	60
FCA212	0.2		
FCA229	0.2		
<b>Multiplex 3</b>			
FCA096	0.2	59.4–0.3	57
FCA132	0.2		
FCA275	0.2		
FCA075	0.2	58.4–0.3	56
FCA225	0.8	57.4–0.3	55

TABLE S2 Genetic variation at 11 microsatellite loci (Table S1) for 5 tigers *Panthera tigris altaica* in Hunchun Nature Reserve, China (Fig. 1).

Locus	Observed number of alleles ( <i>A</i> )	Observed heterozygosity ( <i>H<sub>o</sub></i> )	Expected heterozygosity ( <i>H<sub>E</sub></i> )	Allelic dropout
FCA032	4	1.00	0.650	0.23
FCA075	2	0.875	0.525	0.06
FCA096	2	0.143	0.143	0.00
FCA100	2	0.875	0.525	0.52
FCA124	2	0.286	0.262	0.50
FCA126	3	0.250	0.342	0.84
FCA132	4	0.500	0.695	0.63
FCA212	4	1.00	0.717	0.24
FCA225	1	N/A	N/A	0.00
FCA229	3	0.500	0.517	0.46
FCA 275	1	N/A	N/A	0.00
Total/mean	2.55	0.603	0.438	