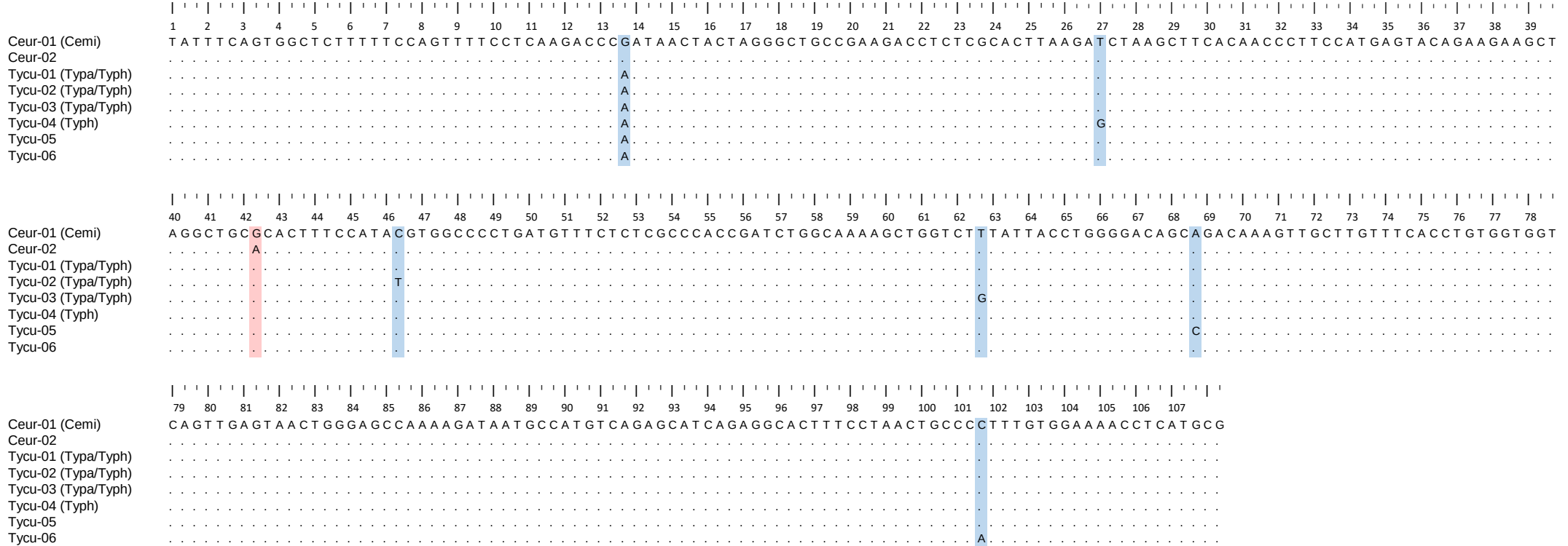
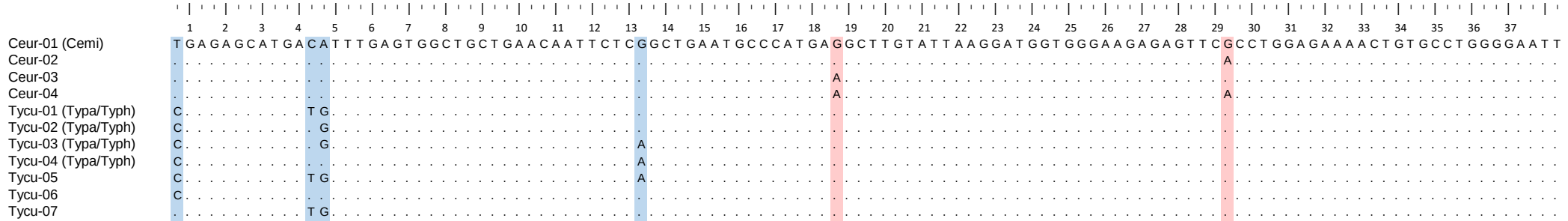


Fig. S1. Alignments of DNA sequences of ChB6 and IAP-1 exons, TGF-B3 and TRAIL-like introns, and IL-2 promoter of *Centrocercus* (Cemi = *C. minimus*, Ceur = *C. urophasianus*) and *Tympanuchus* (Tycu = *T. cupido*, Typa = *T. pallidicinctus*, Typh = *T. phasianellus*) grouse. Alleles shared between species are indicated by acronyms given in brackets. Dots indicate the same nucleotide with top sequence. Blue and red shading indicates variable sites within *Tympanuchus* and *Centrocercus* genera, respectively. Codon numeration is indicated above the alignments of exonic regions



IL-2

[illegible][illegible]

Ceur-01 (Cemi)	A A A A A C A A A A G T A A T G A T	T C T T G C C A T A C A G G T A A A G	C A T A T G A A A A A A T G T G T A A T A A A A A C T T T C T T T A C A T G A C G C C C C C A T C T T T T T C C C C C C A G A G A G A	A A G A G T A T A A A A T A C
Cemi-01	.	.	.	.
Tycu-01 (Typa)	.	.	A.	.
Tycu-02 (Typa)	.	.	.	.
Tycu-03 (Typa)	.	.	.	.
Tycu-04	.	.	.	.
Tycu-05	.	.	.	.
Tycu-06	.	.	G.	.
Tycu-07 (Typa/Typh)	.	.	.	.
Typa-01	.	.	.	.
Typa-02	.	C.	.	.
Typh-01	.	.	.	.
Typh-02	.	.	.	.
Typh-03	.	.	.	.
Typh-04	.	.	.	.

Ceur-01 (Cemi)	T A A A C A G T C T A A T G A C A A C T	T A T C A C C T C G T A T T G T A C A T C A C A A T T T G A A T A C C A G C A T A
Cemi-01		
Tycu-01 (Typa)		A
Tycu-02 (Typa)		A
Tycu-03 (Typa)		A
Tycu-04		A
Tycu-05		A
Tycu-06		A
Tycu-07 (Typa/Typh)		A
Typa-01		A
Typa-02		A
Typh-01		G
Typh-02		A
Typh-03		
Typh-04		A

TGF-B3

[illegible][illegible][illegible]

[illegible][illegible][illegible]

TRAIL-like

[illegible][illegible]

[illegible]

Sample	CCACATTTGTGTC	CTGATGGTACCTGCCCCATCCTA	CCATCAGCTT	TGTGCCAGAGAA	AGGGCTGGGTATGCTCTATTCCATGGTGTGT	CTGTGGGGCATCCTGACACAGGAAGAGCC
Ceur-01 (Cemi)						
Ceur-02 (Cemi)						
Ceur-03						
Ceur-04						
Ceur-05	G					
Ceur-06						
Ceur-07						
Tycu-01 (Typa/Typh)		G				T
Tycu-02 (Typa)		G				T
Tycu-03 (Typa)		G			G	T
Tycu-04 (Typa)		G				T
Tycu-05 (Typa)		G				T
Tycu-06 (Typh)		G				T
Tycu-07 (Typh)		G				T
Tycu-08 (Typh)		G				T
Tycu-09 (Typh)		G				T
Tycu-10 (Typh)		G				T
Tycu-11		G				T
Tycu-12		G				T
Tycu-13		G				T
Tycu-14		G				T
Tycu-15		G				T
Tycu-16		G		C		T
Tycu-17		G			G	T
Tycu-18		G			G	T
Tycu-19		G			G	T
Tycu-20		G	T			T
Tycu-21		G				T
Tycu-22		G				T
Tycu-23		G				T
Tycu-24		G				T
Typa-01		G				T
Typh-01		G		C		T
Typh-02		G				T
Typh-03		G				T

[illegible]