

Supplementary Material

Analysis of *ZPI* gene reveals differences in zona pellucida composition in carnivores

C. Moros-Nicolás^{A,E}, A. Leza^A, P. Chevret^B, A. Guillén^A, L. González-Brusi^A, F. Boué^C, M. Lopez-Bejar^D, J. Ballesta^A, M. Avilés^A and M. J. Izquierdo-Rico^{A,E}

^ADepartment of Cell Biology and Histology, Faculty of Medicine, Biomedical Research Institute of Murcia (IMIB-Arrixaca-UMU), University of Murcia, 30100, Murcia, Spain.

^BLaboratoire de Biométrie et Biologie Evolutive, UMR5558, CNRS, Université de Lyon, Université Claude Bernard Lyon 1, 69622, Villeurbanne, France.

^C ANSES, Nancy Laboratory for Rabies and Wildlife, CS 40009, 54220 Malzéville, France.

^DDepartment of Animal Health and Anatomy, Universitat Autònoma de Barcelona, 08193, Barcelona, Spain.

^ECorresponding authors. Emails: carla.moros@um.es; mjoseir@um.es

Table S1. Primers used for the RT-PCR amplification of *ZP1*, *ZP2*, *ZP3* and *ZP4* in ferret and fox and *ZP1* in dog

Ferret primers	bp (forward (F)/reverse (R))	Sequence (5'- 3')	Tm (° C)
<i>ZP1</i>			
ZP1mustelaF1	19 (F)	GTTGTTGCCCTGGTGTGTC	60
ZP1mustelaR1	19 (R)	GAGAAGCCTGTGCGTGGTG	62
ZP1mustelaF2	19 (F)	GGTTGACGAGCCACCATAC	60
ZP1mustelaR2	19 (R)	CATAGGCCATGTGGAGGTT	58
ZP1mustelaF3	20 (F)	CGCCAAAGATGAGACTTTCC	60
ZP1mustelaR3	20 (R)	AGGACACCCTTCAGACAGAA	60
ZP1mustelaF4	20 (F)	TTCTGTCTGAAGGGTGTCTT	60
ZP1mustelaR4	18 (R)	CTCTCACACGCGCTCATG	58
<i>ZP2</i>			
ZP2MustelaF1	20 (F)	ACTGCATTTCCATCCTGG AC	60
ZP2MustelaR1	20 (R)	TCTTCTGCTTGTGCAACT GG	60
ZP2MustelaF2	20 (F)	ACCGGAGTTTCCTTGGAAGT	60
ZP2MustelaR2	20 (R)	CACGTTTGAAGGTGAAGGTC	60
<i>ZP3</i>			
ZP3MustelaF1	20 (F)	CTGATGCCTCTTCGTCCTTC	58
ZP3MustelaR1	20 (R)	TGTCAGCAGTGCCTTCTACG	58
ZP3MustelaF2	19 (F)	TGGAGGATGTGGTCAGGTT	58
ZP3MustelaR2	19 (R)	GAGGGAGAAAACCAGCTTC	58
<i>ZP4</i>			
ZP4MustelaF1	20 (F)	GCAGCACGGTTACAAAGACA	60
ZP4MustelaR1	20 (R)	AAGTGGCCATCTTGGGTACA	60
ZP4MustelaF2	19 (F)	TGTTCTCCAGCACTGTTG	58
ZP4MustelaR2	19 (R)	AACGCTGGTAGTGAGATGG	58
<i>B-actin</i>			
β -Actina Mustela	19 (F)	ACACTGTGCCCATCTACGA	58
β -Actina Mustela	19 (R)	TTGCCGATGGTATGACCT	58

Fox primers	bp (forward (F)/reverse (R))	Sequence (5'- 3')	Tm (° C)
ZP1			
ZP1canisF1	19 (F)	GCTTCACCTGTGCTGCATC	60
ZP1canisR1	19 (R)	GTTTCTTCCGTCTCCTGAG	60
ZP2			
ZP2vulpesF1	20 (F)	CTCAGTGTCCAAGTGTTCATT	58
ZP2vulpesR1	19 (R)	GCTGTAGACCTTGACATCC	58
ZP3			
ZP3vulpesF1	19 (F)	GGTCCAGAGAACTGTGAGC	60
ZP3vulpesR1	19 (R)	CGATCTGGTATCAGCGTGG	60
ZP3vulpesF2	20 (F)	GTGGATGGTCTCTACAATGC	60
ZP3vulpesR2	19 (R)	GCAGTGCTATGTCTCTTGG	58
ZP4			
ZP4canisF0	17 (F)	ATGCGGCAGCTGCAGAT	54
ZP4carnisR1	19 (R)	AGGTCACTGTGTTTCCATA	54
ZP4carnisF4	19 (F)	GTGTTCCCTCACCCATCAC	58
ZP4carnisR2	19 (R)	AACCATGGCTCCAAGTTCT	56
ZP4carnisF3	19 (F)	GACCAGGCAGTATATGAAA	54
ZP4carnisR4	20 (R)	CTATTTCCCTGATAGCTAAGT	54
GAPDH			
GAPDHcanisF1	19 (F)	GATGCTGGTGCTGAGTATG	58
GAPDHcanisR1	19 (R)	CAGAAGGAGCAGAGATGAT	56

Dog primers	bp (forward (F)/reverse (R))	Sequence (5' - 3')	Tm (° C)
<i>ZPI</i>			
ZP1canisF1	19 (F)	GCTTCACCTGTGCTGCATC	60
ZP1canisR1	19 (R)	GTTTCTCCGTCTCCTGAG	60
<i>GAPDH</i>			
GAPDHcanisF1	19 (F)	GATGCTGGTGCTGAGTATG	58
GAPDHcanisR1	19 (R)	CAGAAGGAGCAGAGATGAT	56