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Supplementary Material

Analysis of *ZP1* gene reveals differences in zona pellucida composition in carnivores

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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)
ZP1			
ZP1mustelaF1	19 (F)	GTTGTTGCCCTGGTGTGTC	60
ZP1mustelaR1	19 (R)	GAGAAGCCTGTGCGTGGTG	62
ZP1mustelaF2	19 (F)	GGTTGACGAGCCACCATAC	60
ZP1mustelaR2	19 (R)	CATAGGCCATGTGGAGGTT	58
ZP1mustelaF3	20 (F)	CGCCAAAGATGAGACTTCC	60
ZP1mustelaR3	20 (R)	AGGACACCCCTTCAGACAGAA	60
ZP1mustelaF4	20 (F)	TTCTGTCTGAAGGGTGTCCCT	60
ZP1mustelaR4	18 (R)	CTCTCACACGCGCTCATG	58
ZP2			
ZP2MustelaF1	20 (F)	ACTGCATTTCCATCCTGG AC	60
ZP2MustelaR1	20 (R)	TCTTCTGCTTGTGCAACT GG	60
ZP2MustelaF2	20 (F)	ACCGGAGTTCCCTGGAAAGT	60
ZP2MustelaR2	20 (R)	CACGTTGAAGGTGAAGGTC	60
ZP3			
ZP3MustelaF1	20 (F)	CTGATGCCTCTCGTCCTTC	58
ZP3MustelaR1	20 (R)	TGTCAGCAGTGCCTCTACG	58
ZP3MustelaF2	19 (F)	TGGAGGATGTGGTCAGGTT	58
ZP3MustelaR2	19 (R)	GAGGGAGAAAACCAGCTTC	58
ZP4			
ZP4MustelaF1	20 (F)	GCAGCACGGTTACAAAGACA	60
ZP4MustelaR1	20 (R)	AAGTGGCCATCTGGGTACA	60
ZP4MustelaF2	19 (F)	TGTCCTCCAGCACTGTTG	58
ZP4MustelaR2	19 (R)	AACGCTGGTAGTGAGATGG	58
B-actin			
β-Actina Mustela	19 (F)	ACACTGTGCCATCTACGA	58
β-Actina Mustela	19 (R)	TTGCCGATGGTGATGACCT	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)	CTCAGTGTCCAAGTGTCAATT	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)	GCAGTGCTATGTCTCTGG	58
ZP4			
ZP4canisF0	17 (F)	ATGCGGCAGCTGCAGAT	54
ZP4carnisR1	19 (R)	AGGTCACTGTGTTCCATA	54
ZP4carnisF4	19 (F)	GTGTTCCCTCACCCATCAC	58
ZP4carnisR2	19 (R)	AACCATGGCTCCAAGTTCT	56
ZP4carnisF3	19 (F)	GACCAGGCAGTATATGAAA	54
ZP4carnisR4	20 (R)	CTATTTCCTGATAGCTAAGT	54
GAPDH			
GAPDHcanisF1	19 (F)	GATGCTGGTGCTGAGTATG	58
GAPDHcanisR1	19 (R)	CAGAAGGAGCAGAGATGAT	56

Dog primers	bp (forward (F)/reverse (R))	Sequence (5'- 3')	Tm (° C)
ZP1			
ZP1canisF1	19 (F)	GCTTCACCTGTGCTGCATC	60
ZP1canisR1	19 (R)	GTTTCTTCCGTCTCCTGAG	60
GAPDH			
GAPDHcanisF1	19 (F)	GATGCTGGTGCTGAGTATG	58
GAPDHcanisR1	19 (R)	CAGAAGGAGCAGAGATGAT	56