Raw data S1. Sequences of our reference specimens for ND1 and cytb markers. Sequences were not submitted to GenBank because they are shorter than the minimum length requested for submission (200 base pairs). Due to lack of intraspecific variability of the analysed sequences, one sequence per species is shown.

**ND1 reference sequences:**

*Canis lupus* _ND1_
TCCTAATAAACGGGTCATTTACACTATCCACGCTAATTATTACCCCAAGAACATATATGA
TTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
TAATCGAGCCCCCCTTCGACTTA

*Canis latrans* _ND1_
TTCTAATAAACGGGTCATTTACACTATCCACGCTAATTATTACCCCAAGAACATATATGA
TTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
TAATCGAGCCCCCCTTCGACTTA

*Canis aureus* _ND1_
TCCTAATAAACGGGTCATTTACACTATCCACGCTAATTATTACCCCAAGAACATATATGA
TTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
TAATCGAGCCCCCCTTCGACTTA

*Nyctereutes procyonoides* _ND1_
TACTGATAAACGGATCCTTCACATTATCCACGCTAATTATTACCCCAAGAACATATATGA
CTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
AAACCGGAGCCCCCCTTCGACTTA

*Vulpes vulpes* _ND1_
TGCTAATAAACGGATCCTTCACATTATCCACGCTAATTATTACCCCAAGAACATATATGA
CTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
AAACCGGAGCCCCCCTTCGACTTA

*Felis silvestris* _ND1_
TACTAATAAACGGATCCTTCACATTATCCACGCTAATTATTACCCCAAGAACATATATGA
CTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
CAATCGAGCCCCCCTTCGACTTA

*Lynx lynx* _ND1_
TACTAATAAACGGATCCTTCACATTATCCACGCTAATTATTACCCCAAGAACATATATGA
CTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
AAACCGGAGCCCCCCTTCGACTTA

*Panthera tigris* _ND1_
TACTAATAAACGGATCCTTCACATTATCCACGCTAATTATTACCCCAAGAACATATATGA
CTAATCTTTTCCGGCCTGACCCCTAGCCATGATATGATTATCATCTCCTACCTAGCAGAAAC
CAATCGAGCCCCCCTTCGACTTA
Martes foina\textsubscript{ND1}
TATTAATAAAATGGCTCTTTTACCCCTATCCACACTTACTACTACACAAGAACACCTATGA
CTAATCCTCCCCACATGACCCCTAGCTATAGTATGATTTTATCTCAACCCTAGCAGAAACCAACGCACCACCATTTGACTTA

Lutra lutra\textsubscript{ND1}
TACTAATAAACGGCTCATTCACCCTATCCACATTTAACCCACACAGGAGCACCTATGA
CTAATCCTACCCCCACATGACCCCTGGCTATAATATGATTTTATTTTATCTCAACTCGCAGAAACCAATCGCGCACCACCATTTGACTTA

Sciurus vulgaris\textsubscript{ND1}
TCCTTATAAAACGGCTCATTCACCCTATCCACATTTAACCCACACAGGAGCACCTATGA
CTAATCCTAATCCCAACCTGACCCTGGCTATAATATGATTTTATTTTATCTCAACCCTAGCTGAAACAAATCGAGCACCACCATTTGACCTA

Cytb reference sequences:

Felis silvestris\textsubscript{Cytb}
CTAACATGAATCGGTGGCCAACCTGTAGAACATCCATTCATCAACCACACTCGGCAAATAG
CCTCCATCCATATTATTTTCTCAACCCCTCTACTATAATACCCACAT

Lynx lynx\textsubscript{Cytb}
CTAACATGAATTGGCGGCCAACCCGTAGAAACACACCTCTTCATCAACCATCGGCAAATGG
CCTCCATCCATATTATTTTCTCAACCCCTCTACTATAATACCCACAT

Panthera tigris\textsubscript{Cytb}
CTAACATGAATTTGGTGCGCACAACCTGTAGAAACACACCTCTTTATTGCCATCGGCAAATAGC
CTCTATCCTATATCTTCTCTCATCTCTCTAGTCTTATATCCCAT