

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
cytochrome c	Amino acid	104	cytc.txt	BOVIDAE	Bos taurus (65446)
				MYSTICETI	Eschrichtius robustus (65444)
				HIPPOPOTA	Hippopotamus amphibius (65451)
				SUIDAE	Sus scrofa (65445)
				CAMELIDAE	Camelus dromedarius (65443)
				OUTGROUP	Equus caballus (65450)

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
β -hemoglobin	Amino acid	146	bhem.txt	BOVIDAE	Bos taurus (70412)
				CERVIDAE	Alces alces (70417)
				DELPHINIDEA	Tursiops truncatus (70380)
				PHYSETERID	Physeter catadon (89100)
				MYSTICETI	Balaenoptera acutorostrata (70381)
				HIPPOPOTA	Hippopotamus amphibius(122613)
				SUIDAE	Sus scrofa (70407)
				CAMELIDAE	Camelus dromedarius (70410)
OUTGROUP	Ceratotherium simum (122585)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
Skeletal/dental characters	Morphological characters	116	morph.txt	BOVIDAE	Leptomerycidae
				CERVIDAE	Leptomerycidae
				GIRAFFIDAE	Leptomerycidae
				TRAGULIDAE	Tragulidae
				HIPPOPOTA	Hippopotamidae
				SUIDAE	Suidae
				TAYASSUID	Tayassuidae
				CAMELIDAE	Camelidae
				OUTGROUP	Hypothetical Ancestor

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
α -crystallin A	Amino acid	173	acrys.txt	BOVIDAE	Bos Taurus (117338)
				GIRAFFIDAE	Giraffa camelopardalis (71436)
				DELPHINIDEA	Phocoena phocoena (117359)
				MYSTICETI	Balaenoptera acutorostrata (117337)
				HIPPOPOTA	Hippopotamus amphibious (117347)
				SUIDAE	Sus scrofa (117360)
				CAMELIDAE	Camelus dromedaries (117340)
				OUTGROUP	Ceratotherium simum (117343)

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
α-lactalbumin exons 1-3	Nucleic acid	279	alacx.txt	BOVIDAE	Bos Taurus (X06366)
				DELPHINIDEA	Phocoena phocoena (AJ007811)
				MYSTICETI	Balaena mysticetus (AJ007809)
				HIPPOPOTA	Hippopotamus amphibius (AJ007813)
				SUIDAE	Sus scrofa (M80520)
				CAMELIDAE	Lama guanicoe (AJ007814)
OUTGROUP	Cavia cutleri (Y00726)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
mitochondrial cytochrome b	Nucleic acid	1140	cytb.txt	BOVIDAE	Bos taurus (J01394)
				CERVIDAE	Odocoileus hemionus (X56291)
				GIRAFFIDAE	Giraffa camelopardalis (X56287)
				TRAGULIDAE	Tragulus napu (X56288)
				DELPHINIDEA	Delphinapterus leucas (X92531)
				ZIPHIIDAE	Ziphius cavirostris (X92540)
				PHYSETERID	Physeter catadon (X75589)
				MYSTICETI	Balaenoptera physalus (X61145)
				HIPPOPOTA	Hippopotamus amphibius (U07565)
				SUIDAE	Sus scrofa (X56295)
				TAYASSUID	Tayassu tajacu (X56296)
CAMELIDAE	Camelus dromedarius (X56281)				
OUTGROUP	Diceros bicornis (X56283)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
12S mt rDNA	Nucleic acid	406	12s.txt	BOVIDAE	Bos taurus (J01394)
				CERVIDAE	Cervus unicolor (M35875)
				GIRAFFIDAE	Giraffa camelopardalis
				TRAGULIDAE	Tragulus napu (M55539)
				DELPHINIDEA	Lagenorhynchus obscurus (U13091)
				ZIPHIIDAE	Ziphius cavirostris (U13101)
				PHYSETERID	Physeter catadon (U13096)
				MYSTICETI	Balaenoptera physalus (X61145)
				HIPPOPOTA	Hippopotamus amphibius
				SUIDAE	Sus scrofa
				TAYASSUID	Tayassu tajacu (U13097)
CAMELIDAE	Camelus dromedarius (U13081)				
OUTGROUP	Rhinoceros unicornis (X97336)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
16S mt rDNA	Nucleic acid	564	16s.txt	BOVIDAE	Bos taurus (J01394)
				CERVIDAE	Cervus unicolor (M35875)
				GIRAFFIDAE	Giraffa camelopardalis
				TRAGULIDAE	Tragulus napu (M55539)
				DELPHINIDEA	Lagenorhynchus obscurus (U13114)
				ZIPHIIDAE	Ziphius cavirostris (U13124)
				PHYSETERID	Physeter catadon (U13119)
				MYSTICETI	Balaenoptera physalus (X61145)
				HIPPOPOTA	Hippopotamus amphibius
				SUIDAE	Sus scrofa
				TAYASSUID	Tayassu tajacu (U13120)
CAMELIDAE	Camelus dromedarius (U13104)				
OUTGROUP	Rhinoceros unicornis (X97336)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
α -lactalbumin introns 1, 2	Nucleic acid	673	alaci.txt	BOVIDAE	Bos taurus (X06366)
				DELPHINIDEA	Phocoena phocoena (AJ007811)
				MYSTICETI	Balaena mysticetus (AJ007809)
				HIPPOPOTA	Hippopotamus amphibius (AJ007813)
				CAMELIDAE	Lama guanicoe (AJ007814)
OUTGROUP	Cavia cutleri (Y00726)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
vWF exon 28	Nucleic acid	1242	vwf.txt	BOVIDAE	Bos taurus (B - AFO04285)
				DELPHINIDEA	Phocoena phocoena (AFO61060)
				PHYSETERID	Physeter catadon
				MYSTICETI	Eschrichtius robustus
				HIPPOPOTA	Hippopotamus amphibius
				SUIDAE	Sus scrofa (S78431)
				CAMELIDAE	Lama glama
OUTGROUP	Ceratotherium simum (U31604)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
pancreatic ribonuclease	Nucleic acid	124	pancr.txt	BOVIDAE	Bos taurus(2136813)
				CERVIDAE	Alces alces (67338)
				MYSTICETI	Balaenoptera acutorostrata (67346)
				HIPPOPOTA	Hippopotamus amphibius (67345)
				SUIDAE	Sus scrofa (67344)
				CAMELIDAE	Camelus dromedarius (67341)
OUTGROUP	Equus caballus (67347)				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
b-casein exon 7	Nucleic Acid	439	bcas.txt	BOVIDAE	Ovis aries (X16482)
				CERVIDAE	Cervus nippon
				GIRAFFIDAE	Giraffa camelopardalis (U53897)
				TRAGULIDAE	Tragulus napu (U53898)
				DELPHINIDEA	Lagenorhynchus obscurus
				ZIPHIIDAE	Ziphius cavirostris
				PHYSETERID	Physeter catadon (U86644)
				MYSTICETI	Balaenoptera physalus (U53900)
				HIPPOPOTA	Choeropsis liberiensis
				SUIDAE	Sus scrofa (X54974)
				TAYASSUID	Tayassu tajacu (U53903)
CAMELIDAE	Camelus dromedarius (U53902)				
OUTGROUP	Rhinoceros unicornis				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
k-casein exon 4	Nucleic Acid	489	kcas.txt	BOVIDAE	Ovis aries (X51822)
				CERVIDAE	Cervus nippon (D14379)
				GIRAFFIDAE	Giraffa camelopardalis (U53886)
				TRAGULIDAE	Tragulus javanicus (D14381)
				DELPHINIDEA	Lagenorhynchus obscurus
				ZIPHIIDAE	Ziphius cavirostris
				PHYSETERID	Physeter catadon (U86643)
				MYSTICETI	Balaenoptera physalus (U53888)
				HIPPOPOTA	Hippopotamus amphibius (U53889)
				SUIDAE	Sus scrofa (X51977)
				TAYASSUID	Tayassu tajacu (U53891)
CAMELIDAE	Camelus dromedarius (Y10082)				
OUTGROUP	Rhinoceros unicornis				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
g-fibrinogen exons/introns	Nucleic Acid	223 357	gfibx.txt gfibi.txt	BOVIDAE	Ovis dalli (U86647)
				CERVIDAE	Alces alces (U86648)
				GIRAFFIDAE	Giraffa camelopardalis (U86649)
				TRAGULIDAE	Tragulus napu (U86650)
				DELPHINIDEA	Delphinapterus leucas (U86651)
				ZIPHIIDAE	Ziphius cavirostris
				PHYSETERID	Physeter catadon (U86652)
				MYSTICETI	Balaenoptera physalus (U86653)
				HIPPOPOTA	Choeropsis liberiensis (U86654)
				SUIDAE	Sus scrofa (U86655)
				TAYASSUID	Tayassu tajacu (U86656)
CAMELIDAE	Camelus dromedarius (U86657)				
OUTGROUP	Diceros bicornis				

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
IRBP exon 1	Nucleic Acid	1247	irbp.txt	BOVIDAE	Bos taurus (M20748)
				DELPHINIDEA	Steno bredanensis (U48713)
				PHYSETERID	Physeter catadon (U50818)
				MYSTICETI	Balaenoptera acutorostrata (U50820)
				HIPPOPOTA	Hippopotamus amphibius
				SUIDAE	Sus scrofa (U48588)
				CAMELIDAE	Lama glama
				OUTGROUP	Equus caballus (U48710)

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
a-hemoglobin	Amino Acid	141	ahem.txt	BOVIDAE	Bos taurus (70238)
				CERVIDAE	Alces alces (70244)
				DELPHINIDEA	Tursiops truncatus (70219)
				PHYSETERID	Physeter catadon (122464)
				MYSTICETI	Balaenoptera acutorostrata (70218)
				HIPPOPOTA	Hippopotamus amphibius (122410)
				SUIDAE	Sus scrofa (70237)
				CAMELIDAE	Camelus dromedaries (70248)
				OUTGROUP	Ceratotherium simum (70235)

Trait Name	Type	Length	File Name	Group	Genus species (accession #s)
Protamine P1 exons/introns	Nucleic Acid	338 114	prp1ex.txt prp1in.txt	BOVIDAE	Bos taurus (Queralt et al., 1995)
				CERVIDAE	Alces alces (Queralt et al., 1995)
				GIRAFFIDAE	Giraffa camelopardalis
				TRAGULIDAE	Tragulus javanicus
				DELPHINIDEA	Lagenorhynchus obscurus
				ZIPHIIDAE	Balaenoptera physalus
				PHYSETERID	Choeropsis liberiensis
				SUIDAE	Sus scrofa (M80678)
				TAYASSUID	Tayassu tajacu
				CAMELIDAE	Lama guanicoe
				OUTGROUP	Diceros bicornis