

Supporting Information 1: Nature and origin of mammalian samples

Superorder	Order	Common name	Scientific name	Seq*	CITES†	#‡	Type	Contact	Institution
Laurasiatheria	Cetartiodactyla	Cow	<i>Bos taurus</i>	Y	-	20	DNA	J. Hickford	Lincoln U, New Zealand
		Sheep	<i>Ovis aries</i>	Y	-	20	DNA	J. Hickford	Lincoln U, NZ
		Dolphin	<i>Tursiops aduncus</i>	N	-	20	Tissue	L. Moller	Macquarie U, Australia
		Pilot whale	<i>Globicephala melas</i>	N	II	20	Tissue	M. Oremus, S. Baker	Auckland U, NZ
	Carnivora	Cat	<i>Felis catus</i>	Y	-	20	Blood	-	Gribbles Veterinary, NZ
		Dog	<i>Canis familiaris</i>	Y	-	20	Blood	I. Vargas-Jentzsch	U of Canterbury, NZ
	Eulipotyphla	Hedgehog	<i>Erinaceus europaeus</i>	Y	-	20	DNA	M. Hale	U of Canterbury, NZ
		Shrew	<i>Sorex araneus</i>	Y	-	20	Tissue	G. Yannic, J. Hausser	U of Lausanne, Switzerland
Euarchontoglires	Rodentia	Mouse	<i>Mus musculus</i>	Y	-	20	DNA	D. Tautz	Köln U, Germany
		Rat	<i>Rattus norvegicus</i>	Y	-	20	Tissue	B. Robertson	U of Canterbury, NZ
	Primates	Human	<i>Homo sapiens</i>	Y	-	20	DNA	A. Amanzadeh, F. Shokri	National Cell Bank of Iran
		Chimpanzee	<i>Pan troglodytes</i>	Y	II	20	Outsourced	A. Stone	Arizona State U, USA
Afrotheria	Afrosoricida	Tenrec	<i>Echinops telfairi</i>	Y	-	20	Tissue	S. Goodman	Field Museum, Chicago, USA
	Sirenia	Dugong	<i>Dugong dugong</i>	N	I	20	DNA	A. MacMahon, D. Blair	James Cook U, Australia
Australidelphia	Diprotodontia	Tammar wallaby	<i>Macropus eugenii</i>	Y	-	16	DNA	J. Graves	Australian National U, Australia
	Dasyuridae	Quoll	<i>Dasyurus maculatus</i>	N	-	20	Tissue	M. Cardoso	U of New South Wales, Australia
n/a	Monotremata	Platypus	<i>Ornithorhynchus anatinus</i>	Y	-	20	DNA	C. Whittington	U of Sydney, Australia
		Echidna	<i>Tachyglossus aculeatus</i>	N	-	20	DNA/tissue	S. Nicol P. Rismiller	U of Tasmania, Australia Kangaroo Island, Australia

* indicates whether genome sequence was partly or completely available at the time of the study

† CITES Appendices for listed protected species (<http://www.cites.org/eng/resources/species.html>)

‡ Number of sourced individual samples