

Supplementary Table S1. Classification of taxa and GenBank accession numbers for rhodopsin gene in this study. Accession numbers of new sequences are shown in bold.

Classification		Common name	Species name	Acc. No	
Boreoeutheria	Laurasiatheria	ORDER CHIROPTERA (BATS)			
		SUBORDER YINPTEROCHIROPTERA			
		Family Pteropodidae	lesser dawn bat	<i>Eonycteris spelaea</i>	GQ290305
			Leschenault's rousette	<i>Rousettus leschenaultii</i>	GQ290317
			Pallas's tube-nosed fruit bat	<i>Nyctimene cephalotes</i>	GQ290313
			greenish naked-backed fruit bat	<i>Dobsonia viridis</i>	GQ290304
			lesser short-nosed fruit bat	<i>Cynopterus brachyotis</i>	GQ290303
		Family Megadermatidae	lesser false vampire bat	<i>Megaderma spasma</i>	GQ290316
		Family Rhinolophidae	least horseshoe bat	<i>Rhinolophus pusillus</i>	GQ290315
			greater horseshoe bat	<i>Rhinolophus ferrumequinum</i>	GQ290314
			Pratt's leaf-nosed bat	<i>Hipposideros pratti</i>	GQ290309
			intermediate leaf-nosed bat	<i>Hipposideros larvatus</i>	GQ290308
		SUBORDER YANGOCHIROPTERA			
		Family Emballonuridae	black-bearded tomb bat	<i>Taphozous melanopogon</i>	GQ290318
		Family Phyllostomidae	Jamaican fruit-eating bat	<i>Artibeus jamaicensis</i>	GQ290299
		Family Miniopteridae	western long-fingered bat	<i>Miniopterus fuliginosus</i>	GQ290311
		Family Molossidae	wrinkle-lipped free-tailed bat	<i>Chaerephon plicatus</i>	GQ290301
		Family Vespertilionidae	Rickett's big-footed myotis	<i>Myotis ricketti</i>	GQ290312
		ORDER CARNIVORA			
		Family Canidae	domestic dog	<i>Canis lupus</i>	X71380
		Family Felidae	domestic cat	<i>Felis catus</i>	NM_001009 242
		Family Phocidae	harp seal	<i>Pagophilus groenlandicus</i>	AF055318
			harbor seal	<i>Phoca vitulina</i>	AF055317
			ringed seal	<i>Pusa hispida</i>	AY883927
			bearded seal	<i>Erignathus barbatus</i>	AY883932
			leopard seal	<i>Hydrurga leptonyx</i>	AY883930
			Weddell seal	<i>Leptonychotes weddellii</i>	AY883929
	Northern elephant seal	<i>Mirounga angustirostris</i>	AY883928		
Family Odobenidae	walrus	<i>Odobenus rosmarus</i>	AY883925		
Family Otariidae	California sealion	<i>Zalophus californianus</i>	AY883924		
Family Mustelidae	sea otter	<i>Enhydra lutris</i>	AY883931		
Family Ursidae	polar bear	<i>Ursus maritimus</i>	AY883926		
ORDER PERISSODACTYLA					
Family Equidae	horse	<i>Equus caballus</i>	XM_001490 301		
ORDER CETARTIODACTYLA					
Family Bovidae	cow	<i>Bos taurus</i>	NM_001014 890		
	wild boar	<i>Sus scrofa</i>	NM_214221		
ORDER CETACEA					
Family Delphinidae	bottlenose dolphin	<i>Tursiops truncatus</i>	AF055456		
	short-beaked common dolphin	<i>Delphinus delphis</i>	AF055314		
	long-finned pilot whale	<i>Globicephala melas</i>	AF055315		
Family Ziphiidae	Sowerby's beaked whale	<i>Mesoplodon bidens</i>	AF055316		
Euarchontoglires	ORDER RODENTS				
	SUBORDER MYOMORPHA				
	Family Muridae	house mouse	<i>Mus musculus</i>	NM_145383	
		brown rat	<i>Rattus norvegicus</i>	NM_033441	
	Family Cricetidae	striped dwarf hamster	<i>Cricetulus barabensis</i>	X61084	
Family Spalacidae	Middle East blind mole rat	<i>Spalax ehrenbergi</i>	AF309568		

Supplementary Table S1 continued

		SUBORDER HYSTRICOMORPHA			
		Family Thryonomyidae	greater cane rat	<i>Thryonomys swinderianus</i>	GQ290319
		Family Bathyergidae	naked mole-rat	<i>Heterocephalus glaber</i>	GQ290307
			silvery mole-rat	<i>Heliophobius argenteocinereus</i>	GQ290306
			Damaraland mole-rat	<i>Cryptomys damarensis</i>	GQ290302
			cape dune mole rat	<i>Bathyergus suillus</i>	GQ290300
		Family Caviidae	domesticated Guinea pig	<i>Cavia porcellus</i>	EF457995
		ORDER LAGOMORPHA			
		Family Leporidae	European rabbit	<i>Oryctolagus cuniculus</i>	NM_001082 349
		ORDER PRIMATES			
		Family Cercopithecidae	crab-eating macaque	<i>Macaca fascicularis</i>	S76579
			rhesus monkey	<i>Macaca mulatta</i>	XM_001094 250
		Family Hominidae	human	<i>Homo sapiens</i>	NM_000539
			common chimpanzee	<i>Pan troglodytes</i>	XM_516740
		Family Galagidae	brown greater galago	<i>Otolemur crassicaudatus</i>	AB112594
Atlantogenata	Afrotheria	ORDER PROBOSCIDEA			
		Family Elephantidae	African bush elephant	<i>Loxodonta africana</i>	AY686752
		ORDER SIRENIA			
		Family Trichechidae	West Indian manatee	<i>Trichechus manatus</i>	AF055319
		ORDER MACROSCELIDEA			
		Family Macroscelididae	short-eared elephant shrew	<i>Macroscelides proboscideus</i>	GQ290310
		ORDER AFROSORICIDA			
		Family Chrysochloridae	Hottentot golden mole	<i>Amblysomus hottentotus</i>	GQ290298
Marsupialia		ORDER DASYUROMORPHIA			
		Family Dasyuridae	fat-tailed dunnart	<i>Sminthopsis crassicaudata</i>	AY159786
		ORDER DIDELPHIMORPHIA			
		Family Didelphidae	gray short-tailed opossum	<i>Monodelphis domestica</i>	XM_001366 188
			bare-tailed woolly opossum	<i>Caluromys philander</i>	AY313946
Prototheria		ORDER MONOTREMATA			
		Family Ornithorhynchidae	platypus	<i>Ornithorhynchus anatinus</i>	NM_001127 627