

Supplemental Materials

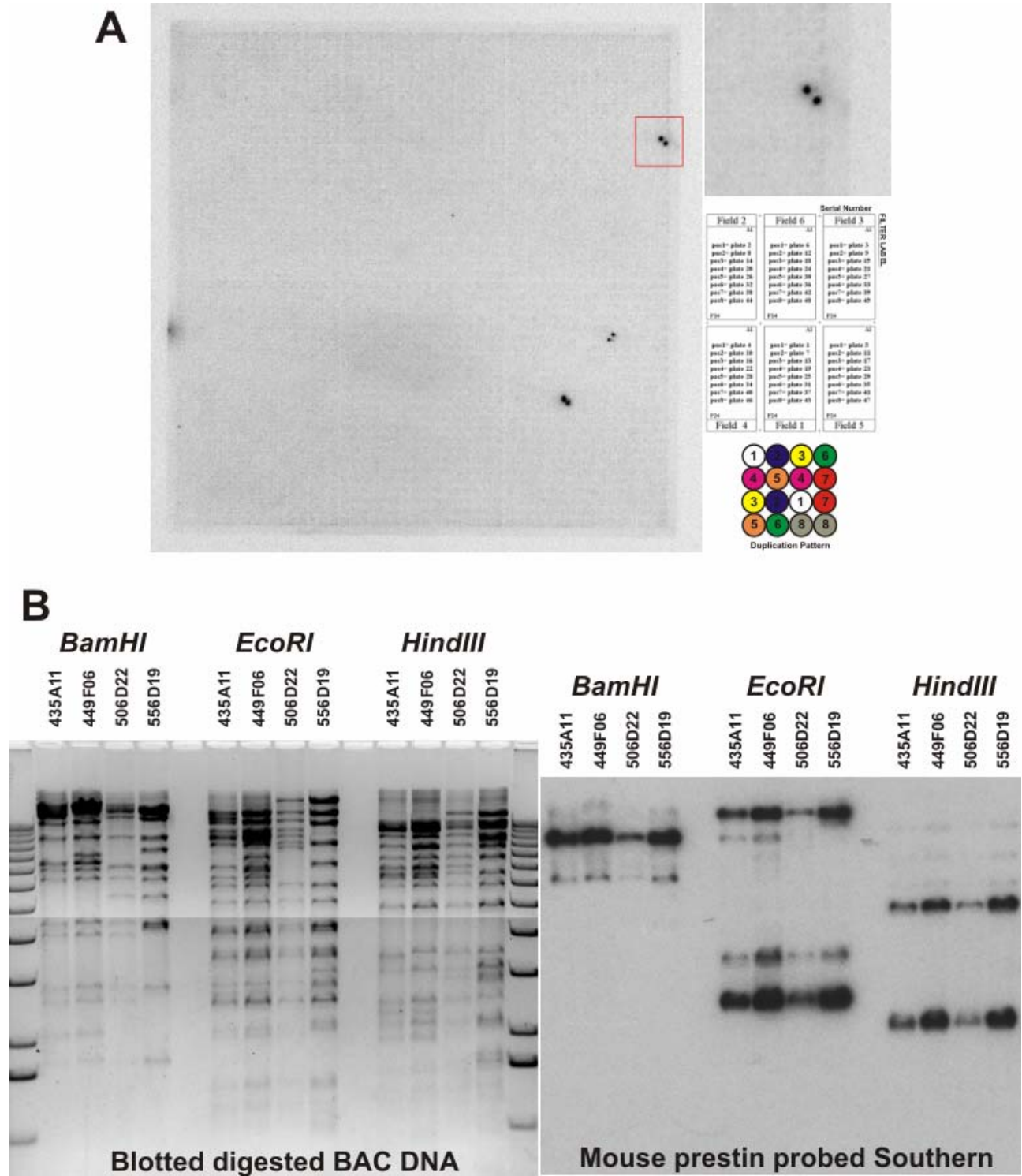
sTable 1. Species, common name and taxonomy of eukaryotic organisms. (see attached Table)

sFig. 1. Identification of Oanat BAC clones carrying the *SLC26A5* gene. Panel A shows hybridization of P-32 labeled mouse prestin on a BAC Oanat genomic library with three positive clones. An enlarged image of the region within the red box shows the arrangement of the duplicate positive clones. The method for identifying the locations of the clones based on 6 fields within each filter and the arrangement for identification of the duplicated individual clones. In Panel B four BAC clones were selected and analyzed by Southern blotting (B) and restriction enzymes BamHI, EcoRI and HindIII were used.

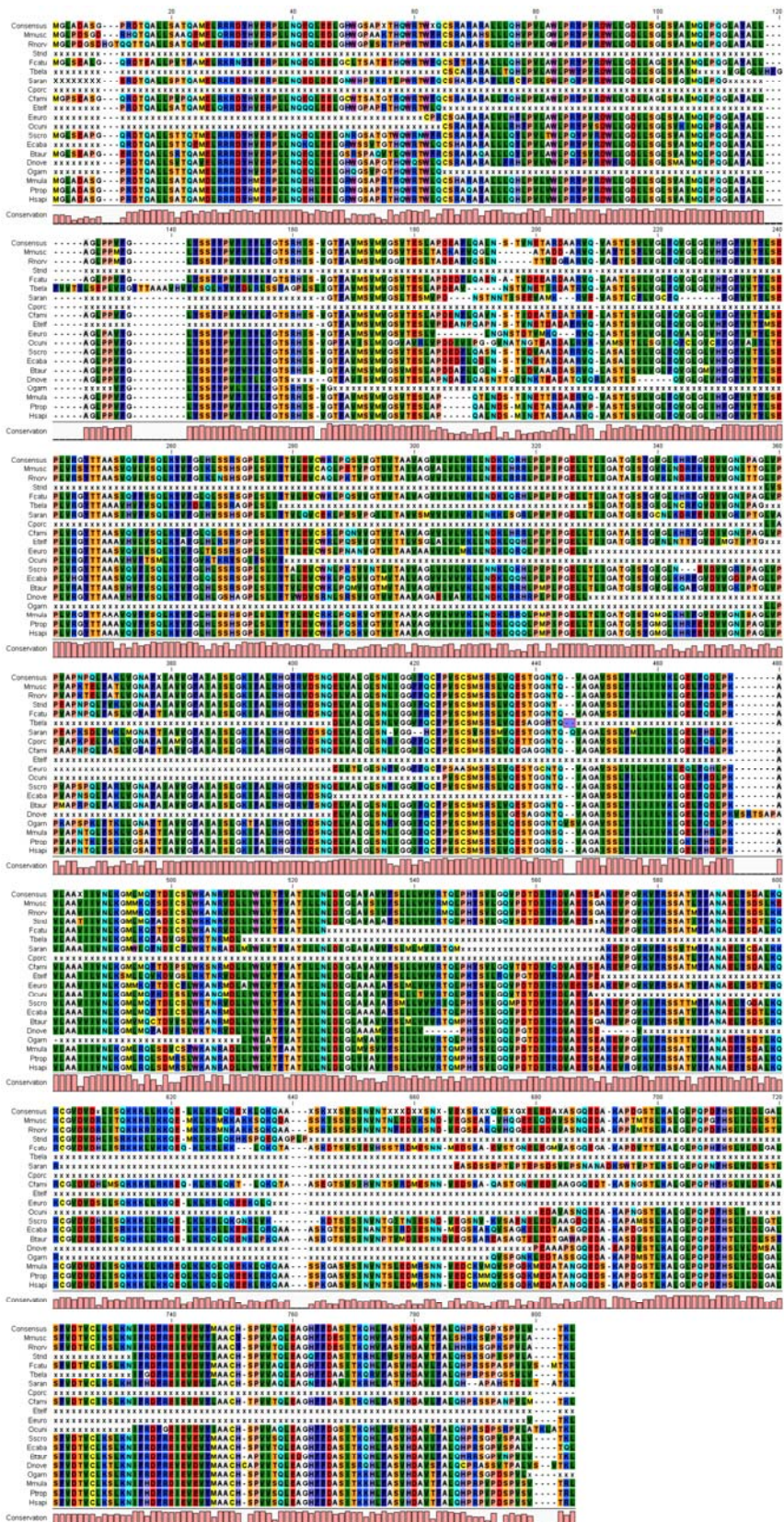
sFig. 2. Alignment of the eutherian SLC26A4 proteins. Alignments of the pendrin (SLC26A4) polypeptides are shown with the deduced polypeptide sequences being compared with the consensus eutherian SLC26A4 sequence. The eutherian species are arranged from high to low frequency specialists. The amino acid alignments are presented with identical residues to the initial polypeptide being represented as dots. Background color of each residue is presented using RasMOL color designations (Sayle and Milner-White, 1995). Gaps in the aligned sequences are indicated by the dashed line. The consensus sequence, residue conservation and utilization (Sequence logo) are provided and missing of sequence data is indicated by X. Residue numbers are provided at the top of each row of sequence. A 1 kb ladder (Invitrogen, Carlsbad, CA) was used as the DNA fragment size marker.

sFig. 3. Alignment of the eutherian SLC26A6 proteins. The amino acid alignments of the CFX (SLC26A6) proteins are presented with identical residues represented as dots. The eutherian species are arranged from high to low frequency specialists. Background color of each residue is presented using RasMOL color designations (Sayle and Milner-White, 1995). Gaps in the aligned sequences are indicated by the dashed line. The residue conservation and utilization (Sequence logo) are provided and absence of sequence data is indicated by X. Residue numbers are provided at the top of each row of sequence.

sFig. 1. Identification of Oanat BAC clones carrying the *SLC26A5* gene.



sFig. 3. Alignment of the eutherian SLC26A6 proteins.



Organism				Taxonomy
Common Name	Species	Taxonomy I.D.		
Slime mold	<i>Dictyostelium discoideum</i>	<i>Ddisc</i>	44689	Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium
Yeast	<i>Saccharomyces cerevisiae</i>	<i>Scere</i>	4932	Eukaryota; Fungi/Metazoa group; Fungi; Dikarya; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomyces
Choanoflagellate	<i>Monosiga brevicollis</i>	<i>Mbrev</i>	81824	Eukaryota; Fungi/Metazoa group; Choanoflagellida; Codonosigidae; Monosiga
Worm	<i>Caenorhabditis elegans</i>	<i>Celeg</i>	6239	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Pseudocoelomata; Nematoda; Chromadorea; Rhabditida; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis
Fruit fly	<i>Drosophila melanogaster</i>	<i>Dmela</i>	7227	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Protostomia; Panarthropoda; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Dicondylia; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Eremoneura; Cyclorhapha; Schizophora; Acalyptratae; Ephydroidea; Drosophilidae; Drosophilinae; Drosophilini; Drosophilina; Drosophilini; Drosophila; Sophophora
Honey bee	<i>Apis mellifera</i>	<i>Amell</i>	7460	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Protostomia; Panarthropoda; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Dicondylia; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea; Apidae; Apinae; Apini; Apis
African malaria mosquito	<i>Anopheles gambiae</i>	<i>Agamb</i>	7165	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Protostomia; Panarthropoda; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Dicondylia; Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicimorpha; Culicoidea; Culicidae; Anophelinae; Anopheles; Cellia; Pyretophorus; gambiae species complex
Yellow fever mosquito	<i>Aedes aegypti</i>	<i>Aaegy</i>	7159	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Protostomia; Panarthropoda; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Dicondylia; Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicimorpha; Culicoidea; Culicidae; Culicinae; Culicini; Aedes/Ochlerotatus group; Aedes; Stegomyia
Red flour beetle	<i>Tribolium castaneum</i>	<i>Tcast</i>	7070	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Protostomia; Panarthropoda; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; Insecta; Dicondylia; Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia; Tenebrionoidea; Tenebrionidae; Tribolium
Purple sea urchin	<i>Strongylocentrotus purpuratus</i>	<i>Spurp</i>	7668	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Echinodermata; Eleutherozoa; Echinozoa; Echinoidea; Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae; Strongylocentrotus
Transparent sea squirt	<i>Ciona intestinalis</i>	<i>Cinte</i>	7719	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Urochordata; Ascidiacea; Enterogona; Phlebobranchia; Cionidae; Ciona
Pacific sea squirt	<i>Ciona savignyi</i>	<i>Csavi</i>	51511	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Urochordata; Ascidiacea; Enterogona; Phlebobranchia; Cionidae; Ciona
Fugu	<i>Takifugu rubripes</i>	<i>Trubr</i>	31033	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii; Actinopteri; Neopterygii; Teleostei; Elopoccephala; Clupeoccephala; Euteleostei; Neognathi; Neoteleostei; Eurypterygii; Ctenosquamata; Acanthomorpha; Euacanthomorpha; Holacanthopterygii; Acanthopterygii; Euacanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontoidei; Tetradontoidea; Tetraodontidae; Takifugu

Mefugu	<i>Takifugu obscurus</i>	<i>Trubr</i>	309541	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii ; Actinopteri; Neopterygii; Teleostei ; Elopoccephala; Clupeoccephala; Euteleostei; Neognathi; Neoteleostei; Eurypterygii; Ctenosquamata; Acanthomorpha; Euacanthomorpha; Holacanthopterygii; Acanthopterygii ; Euacanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontoidei; Tetradontoidea; Tetraodontidae; Takifugu
Tetraodon	<i>Tetraodon nigroviridis</i>	<i>Tnigr</i>	99883	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii ; Actinopteri; Neopterygii; Teleostei ; Elopoccephala; Clupeoccephala; Euteleostei; Neognathi; Neoteleostei; Eurypterygii; Ctenosquamata; Acanthomorpha; Euacanthomorpha; Holacanthopterygii; Acanthopterygii ; Euacanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontoidei; Tetradontoidea; Tetraodontidae; Tetraodon
Japanese medaka	<i>Oryzias latipes</i>	<i>Olati</i>	8090	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii ; Actinopteri; Neopterygii; Teleostei ; Elopoccephala; Clupeoccephala; Euteleostei; Neognathi; Neoteleostei; Eurypterygii; Ctenosquamata; Acanthomorpha; Euacanthomorpha; Holacanthopterygii; Acanthopterygii ; Euacanthopterygii; Percomorpha; Smegmamorpha; Atherinomorpha; Beloniformes; Adrianichthyoidei; Adrianichthyidae; Oryziinae; Oryzias
Three-spined stickleback	<i>Gasterosteus aculeatus</i>	<i>Gacul</i>	69293	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii ; Actinopteri; Neopterygii; Teleostei ; Elopoccephala; Clupeoccephala; Euteleostei; Neognathi; Neoteleostei; Eurypterygii; Ctenosquamata; Acanthomorpha; Euacanthomorpha; Holacanthopterygii; Acanthopterygii ; Euacanthopterygii; Percomorpha; Smegmamorpha; Gasterosteiformes; Gasterosteoidi; Gasterosteidae; Gasterosteus
Zebrafish	<i>Danio rerio</i>	<i>Dreri</i>	7955	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Actinopterygii ; Actinopteri; Neopterygii; Teleostei ; Elopoccephala; Clupeoccephala; Otocephala; Ostariophysii; Otophysi; Cypriniphysi; Cypriniformes; Cyprinoidea; Cyprinidae; Rasborinae; Danio
African clawed frog	<i>Xenopus laevis</i>	<i>Xlaev</i>	8355	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amphibia ; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Xenopodinae; Xenopus; Xenopus
Chicken	<i>Gallus gallus</i>	<i>Ggall</i>	9031	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota ; Sauropsida; Sauria; Archosauria; Dinosauria; Saurischia; Theropoda; Coelurosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus
Duck-billed platypus	<i>Ornithorhynchus anatinus</i>	<i>Oanat</i>	9258	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Prototheria; Monotremata; Ornithorhynchidae; Ornithorhynchus
Gray short-tailed opossum	<i>Monodelphis domestica</i>	<i>Mdome</i>	13616	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Metatheria; Didelphimorphia; Didelphidae; Didelphinae; Monodelphis
Madagascar hedgehog (Tenrec)	<i>Echinops telfairi</i>	<i>Etelf</i>	9371	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Afrotheria; Tenrecidae; Tenrecinae; Echinops

African elephant	<i>Loxodonta africana</i>	<i>Lafri</i>	9785	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Afrotheria; Proboscidea; Elephantidae; Loxodonta
Nine-banded armadillo	<i>Dasyus novemcinctus</i>	<i>Dnove</i>	9361	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Xenarthra; Dasypodidae; Dasyus
Microbat	<i>Myotis lucifugus</i>	<i>Mluci</i>	59463	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Chiroptera; Microchiroptera ; Vespertilionidae; Myotis
European shrew	<i>Sorex araneus</i>	<i>Saran</i>	42254	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Insectivora; Soricidae; Soricinae ; Sorex
European hedgehog	<i>Erinaceus europaeus</i>	<i>Eeuro</i>	9365	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Insectivora; Erinaceidae; Erinaceinae ; Erinaceus
Pig	<i>Sus scrofa</i>	<i>Sscro</i>	9823	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae ; Sus
Cow	<i>Bos taurus</i>	<i>Btaur</i>	9913	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia ; Pecora; Bovidae; Bovinae; Bos
Horse	<i>Equus caballus</i>	<i>Ecaba</i>	9796	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Perissodactyla; Equidae; Equus
Dog	<i>Canis familiaris</i>	<i>Cfami</i>	9615	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Carnivora; Caniformia; Canidae ; Canis; Canis lupus
Cat	<i>Felis catus</i>	<i>Fcatt</i>	9685	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Laurasiatheria; Carnivora; Feliformia; Felidae ; Felinae; Felis
Rabbit	<i>Oryctolagus cuniculus</i>	<i>Ocuni</i>	9986	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae ; Oryctolagus
Thirteen-lined ground squirrel	<i>Spermophilus tridecemlineatus</i>	<i>Strid</i>	43179	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi ; Sciuridae; Xerinae; Marmotini; Spermophilus
Guinea pig	<i>Cavia porcellus</i>	<i>Cporc</i>	10141	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Rodentia; Hystricognathi ; Caviidae; Cavia

Mongolian gerbil	<i>Meriones unguiculatus</i>	<i>Mungu</i>	10047	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Gerbillinae; Meriones
Norway rat	<i>Rattus norvegicus</i>	<i>Rnorv</i>	10116	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Rattus
Mouse	<i>Mus musculus</i>	<i>Mmusc</i>	10090	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus
Tree shrew	<i>Tupaia belangeri</i>	<i>Tbela</i>	37347	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Scandentia; Tupaiidae; Tupaia
Bushbaby	<i>Otolemur garnettii</i>	<i>Ogarn</i>	30611	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Primates; Strepsirrhini; Lorisiformes; Galagidae; Otolemur
Orangutan	<i>Pongo pygmaeus</i>	<i>Ppygm</i>	9600	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Hominoidea; Hominidae; Pongo
Rhesus monkey	<i>Macaca mulatta</i>	<i>Mmula</i>	9544	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Cercopithecoidea; Cercopithecidae; Cercopithecinae; Macaca
Chimpanzee	<i>Pan troglodytes</i>	<i>Ptrog</i>	9598	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Hominoidea; Hominidae; Homo/Pan/Gorilla group; Pan
Human	<i>Homo sapiens</i>	<i>Hsapi</i>	9606	Eukaryota; Fungi/Metazoa group; Metazoa; Eumetazoa; Bilateria; Coelomata; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia ; Theria; Eutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Hominoidea; Hominidae; Homo/Pan/Gorilla group; Homo