

Mammal Madness: Is the mammal Tree of Life not yet resolved?

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Supplementary Material

Table S1. Taxa, Genes and Accession Numbers for data used to construct the ML phylogeny used for the mcmctree Timetree analysis

Name	A2AB	Adora3	ADRB2	ApoB
<i>Abrocoma bennettii</i>	JN413803	JN633431	JN633687	JN414044
<i>Acinonyx jubatus</i>	LLWD01000410	GU930839	LLWD01000663	LLWD01000008
<i>Acrobates pygmaeus</i>	JN413804	JN633400	XXXXXX	FJ603115 + JN413923
<i>Aepyprymnus rufescens</i>	JN413805	JN633405	XXXXXX	EU160444 + JN413924
<i>Ailuropoda melanoleuca</i>	Ensembl 66	Ensembl 65	JN633677	JN413997
<i>Ailurus fulgens</i>	JN413807	GU930877	JN633669	JN413985
<i>Amblysomus hottentotus</i>	JN413808	AY059667	AY059671	AF548413 + JN413946
<i>Anomalurus beecrofti</i>	JN413809	JN633432	JN633688	JN414046
<i>Anoura geoffroyi</i>	AY834407	XXXXXX	AY834447	XXXXXX
<i>Antilocapra americana</i>	JN413810	JN633419	JN633664	JN413962
<i>Antrozous pallidus</i>	AJ419813	XXXXXX	AY834449	XXXXXX
<i>Aotus nancymae</i>	JYKP01225662	HM765179	JYKP01000449	JYKP01052177
<i>Aplodontia rufa</i>	AJ427256	JN633433	JN633689	JN414047
<i>Apodemus sylvaticus</i>	LIPJ01002069	LIPJ01004413 deleted	LIPJ01013063	LIPJ01014221
		string of Ns		
<i>Arctocephalus forsteri</i>	JN413811	GU930872	XXXXXX	JN413994
<i>Artibeus jamaicensis</i>	AY834406	AY011232	AY011292	JN414014
<i>Ateles fusciceps</i>	JN413812	AY011227	AY011287	JN414034
<i>Balaena mysticetus</i>	scaffold 259	scaffold 1896	Scaffold 616	Scaffold 679
<i>Balaenoptera acutorostrata</i>	ATDI01097136	ATDI01126378	ATDI01010399	ATDI01129149
<i>Balaenoptera bonaerensis</i>	BAUQ01548583	BAUQ01701950	BAUQ01306670	BAUQ01117447
<i>Bison bison</i>	JPYT01646865 and JPYT01096867	JPYT01102624	JPYT01281498	JPYT01256889
<i>Bos grunniens</i>	AGSK01042505	AGSK01150640	AGSK01186512	AGSK01074478
<i>Bos indicus</i>	AGFL01098610	AGFL01025611	AGFL01068595	AGFL01104453
<i>Bos taurus</i>	Ensembl 66	Ensembl 64	Ensembl 65	XM_003582812
<i>Bradypus tridactylus</i>	AJ251179	JN633417	JN633662	JN413959
<i>Bubalus bubalis</i>	AWWX01488187	XM_006069469	AWWX01461940	AWWX01627910
<i>Caenolestes fuliginosus</i>	JN413813	JN633396	JN633644	AY243418 + JN413925
<i>Callithrix jacchus</i>	Ensembl 69	HM765164	XM_002744350	Ensembl 65
<i>Caluromys philander</i>	JN413814	JN633392	JN633640	AY243419 + JN413926
<i>Camelus bactrianus</i>	JARL01022906	CAOW010325874	GAEX01036340	GAEW01012362
<i>Camelus dromedarius</i>	JWIN01033659	GAEA01058922	JWIN01034128	JWIN01033039
<i>Camelus ferus</i>	AGVR01013673	AGVR01026070	AGVR01008536	AGVR01018504
<i>Canis familiaris</i>	AJ891051	Ensembl 64	AY011309	XM_532887
<i>Caperea marginata</i>	JN413815	JN413899	JN413910	JN413973
<i>Capra aegagrus</i>	CBYH010014783	CBYH010091596	CBYH010007839	CBYH010010202
<i>Capra hircus</i>	GAAO01004003	AJPT01031645	AJPT01080438	AJPT01119634

Name	A2AB	Adora3	ADRB2	ApoB
<i>Capreolus capreolus</i>	CCMK010312494	CCMK010261104	CCMK010105685	CCMK010190729
<i>Capromys pilorides</i>	JN413816	JN633434	JN633690	JN414049
<i>Castor canadensis</i>	AJ427260	AY011208	AY011268	JN414051
<i>Cavia aperea</i>	AVPZ01000167	AVPZ01000223	AVPZ01000667	AVPZ01000100
<i>Cavia porcellus</i>	AAKN02027870	Ensembl 65	XM_003477335	XM_003473159
<i>Cebus albifrons</i>	JN413817	JN633427	JN633683	JN414036
<i>Ceratotherium simum</i>	JN413818	AY011244	AY011304	JN414030
<i>Cercartetus nanus</i>	JN413819	JN633401	JN633648	EU160445 + JN413927
<i>Cercocebus atys</i>	JZLG01067561	JZLG01023840	JZLG01013080	JZLG01056135
<i>Cervus taiouanus</i>	JN413820	JN633420	JN413921	JN413964
<i>Cheirogaleus medius</i>	AJ891052	HM765218	XXXXXX	XXXXXX
<i>Chinchilla lanigera</i>	AJ427271	AGCD01033259	AGCD01015995	JN414052
<i>Chlorocebus sabaeus</i>	AQIB01138632	HM765096	AQIB01044353	AQIB01032695
<i>Choloepus didactylus</i>	AJ427375	AY011192	AY011253	XXXXXX
<i>Choloepus hoffmanni</i>	ABVD02285944	AY011191	AY011252	JN413958
<i>Chrysochloris asiatica</i>	JN413821	JN633412	JN633658	JN413947
<i>Colobus angolensis</i>	JYKR01126149	HM765097	JYKR01190142	JYKR01008599
<i>Condylura cristata</i>	AJFV01049855	AY011199	AY011260	AJFV01050766
<i>Craseonycteris thonglongyai</i>	AY834411	AY834435	AY834459	JN414001
<i>Cratogeomys castanops</i>	JN413822	XXXXXX	JN633697	JN414061
<i>Cricetulus griseus</i>	PreEnsembl 65	PreEnsembl 65	AY011272	JN414053
<i>Crocota crocata</i>	AJ891055	GU930842	JN633672	AF548422 + JN413989
<i>Ctenodactylus gundi</i>	JN413824	JN633437	JN633692	JN414054
<i>Ctenomys boliviensis</i>	JN413825	JN633438	JN633693	JN414055
<i>Cuniculus taczanowskii</i>	JN413806	AY011220	AY011281	JN414045
<i>Cyclopes didactylus</i>	AJ315943	JN633418	JN633663	JN413961
<i>Cynocephalus volans</i>	EU142140	AF535031	AF535036	JN414021
<i>Cynopterus sphinx</i>	AJ251181	GAOV01099534	GAOV01031639	XXXXXX
<i>Dasyprocta punctata</i>	JN413827	JN633439	JN633694	JN414056
<i>Dasyypus novemcinctus</i>	AAGV03209451	Ensembl 64	AAGV03109743	JN413957
<i>Dasyurus albopunctatus</i>	JN413828	JN633410	JN633656	JN413928
<i>Daubentonia madagascariensis</i>	AM050858	JN633428	JN633684	JN414038
<i>Delphinapterus leucas</i>	JN413829	JN413905	JN413915	JN413978
<i>Desmodus rotundus</i>	AJ419811	XXXXXX	AY834446	XXXXXX
<i>Didelphis virginiana</i>	JN413830	AY011189	KC113258	JN413929
<i>Dinomys branickii</i>	AM050859	AY011219	AY011280	AY243370 + JN414057
<i>Dipodomys heermanni</i>	JN413831	JN633442	AY011275	JN414062
<i>Dipodomys ordii</i>	ABRO02033545	Ensembl 65	ABRO02048509	Ensembl 65
<i>Dromiciops gliroides</i>	JN413832	JN633394	JN633642	AY243423 + JN413930
<i>Dugong dugon</i>	Y15947	JN633415	JN633661	AF548410 + JN413953
<i>Echinops telfairi</i>	Y17692	AY011201	AAIY01697372	JN413945
<i>Echymipera kalubu</i>	JN413833	JN633399	JN633647	AY243420 + JN413931
<i>Eidolon helvum</i>	AWHC01104560	AWHC01055011	AWHC01032436	AWHC01057068
<i>Elephantulus edwardii</i>	AMGZ01239109	AMGZ01196936	AMGZ01169660	AMGZ01021947
<i>Elephantulus rufescens</i>	JN413834	AY059668	AY011265	AF548408 + JN413948
<i>Elephas maximus</i>	JN413835	JN633416	XXXXXX	JN413955
<i>Emballonura atrata</i>	AJ419810	AY834418	AY834442	JN414002
<i>Eptesicus fuscus</i>	ALEH01149381	ALEH01071172	ALEH01097379	ALEH01018924
<i>Equus asinus</i>	JREZ01000530	JREZ01000141	JREZ01000329	JREZ01000059
<i>Equus caballus</i>	AAWR02003437	Ensembl 67	AY011303	AAWR02004366 thoroughbred
<i>Equus przewalskii</i>	ATBW01057699	ATBW01011722	ATBW01026832	ATBW01057833
<i>Erethizon dorsatum</i>	AJ427270	AY011215	JN633696	JN414060
<i>Erinaceus europaeus</i>	JN413836	Ensembl 64	AANN01328215	JN414024
<i>Eschrichtius robustus</i>	JN413837	JN413901	JN413912	JN413975
<i>Eubalaena australis</i>	JN413838	JN413900	JN413911	JN413974
<i>Eulemur flavifrons</i>	LGHW01006592	LGHW01001903	LGHW01002774	LGHW01000775
<i>Eulemur macaco</i>	LGHX01006484	LGHX01001886	LGHX01002748	LGHX01000770
<i>Eumops auripendulus</i>	AY834410	XXXXXX	AY834458	XXXXXX
<i>Euphractus sexcinctus</i>	AJ427368	AY011193	AY011254	XXXXXX
<i>Felis catus</i>	AJ251174	AY011246	AY011306	JN413987
<i>Fossa fossana</i>	AJ891061	GU930852	JN633670	JN413986
<i>Fukomys damarensis</i>	AYUG01118562	AYUG01140067	AYUG01097386	AYUG01080983

Name	A2AB	Adora3	ADRB2	ApoB
<i>Furipterus_horrens</i>	AY834409	AY834432	AY834456	JN414003
<i>Galeopterus_variegatus</i>	AJ251182	AY011223	JN633681	JN414022
<i>Genetta_genetta</i>	JN413839	GU930855	XXXXXX	JN413998
<i>Glironia_venusta</i>	JN413840	JN633393	JN633641	JN413932
<i>Gorilla_gorilla</i>	XM_004031413	HM765150	AY091936	Ensembl 65
<i>Heterocephalus_glaber</i>	AHKG01028960	AHKG01051086	AHKG01052864	JN414048
<i>Heterohyrax_brucei</i>	JN413842	JN633414	JN633660	JN413951
<i>Hippopotamus_amphibius</i>	AJ251178	AY011238	AY011298	JN413966
<i>Hipposideros_commerioni</i>	AF337538	AY834415	AY834439	JN414004
<i>Homo_sapiens</i>	AY548167	HM765141	AY011291	Ensembl 64
<i>Hoplomys_gymnurus</i>	JN413843	JN633441	XXXXXX	JN414059
<i>Hydrochoeris_hydrochaeris</i>	JN413844	AY011218	AY011278	AY243369 & JN414063
<i>Hydrodamalis_gigas</i>	consensus	Consensus	consensus	consensus
<i>Hylobates_lar</i>	AM050851	HM765143	XXXXXX	XXXXXX
<i>Hypsiprymnodon_moschatus</i>	JN413845	JN633406	JN633652	FJ603118 + JN413933
<i>Hystrix_brachyura</i>	JN413846	AY011214	AY011273	JN414064
<i>Inia_geoffrensis</i>	JN413848	JN413903	JN413914	JN413977
<i>Isodon_macrourus</i>	JN413849	JN633398	JN633645	EU160446 + JN413934
<i>Jaculus_jaculus</i>	JN413850	JN633440	JN633695	JN414058
<i>Kogia_breviceps</i>	JN413851	JN413906	JN413917	JN413980
<i>Lama_glama</i>	JN413852	AY011239	AY011299	AY243381 + JN413963
<i>Laonastes_aenigmamus</i>	AM407900	JN633447	JN633701	JN414071
<i>Lemur_catta</i>	AJ891067	EU342231	AY011286	AY243380 + JN414041
<i>Leptonychotes_weddellii</i>	APMU01041373	APMU01052847	APMU01142111	APMU01110148
<i>Lipotes_vexillifer</i>	AUPI01145685	AUPI01025142	AUPI01013957	AUPI01105810
<i>Loxodonta_africana</i>	JN413853	AY011204	AY011264	AF548406 + JN413956
<i>Macaca_fascicularis</i>	CAEC01106960	HM765105	AEHL01364591	AEHL01127680
<i>Macaca_mulatta</i>	XM_001082230	AY011228	AY011288	XM_001097500
<i>Macaca_nemestrina</i>	JZLF01022033	HM765109	JZLF01052443	JZLF01083855
<i>Macroderma_gigas</i>	AY834404	XXXXXX	AY834440	XXXXXX
<i>Macropus_eugenii</i>	JN413854	AY011190	ABQO020893080	FJ603152 + JN413935
<i>Macroselides_proboscideus</i>	Y12524	XXXXXX	AY059674	XXXXXX
<i>Macrotis_lagotis</i>	JN413855	XXXXXX	JN633646	EU369354 + JN413936
<i>Mandrillus_leucophaeus</i>	JYKQ01234525	HM765117	JYKQ01105530	JYKQ01025986
<i>Manis_pentadactyla</i>	JN413856	AY011251	AY011311	JPTV01025261
<i>Manis_tricuspis</i>	JN413857	JN633424	JN633678	JN414000
<i>Marmota_marmota</i>	CEEU01000064	CEEU01000080	CEEU01000001	CEEU01000007
<i>Megaderma_lyra</i>	AF337537	AY059670	AY059676	AF548428 + JN414005
<i>Megaptera_novaeangliae</i>	JN413858	AY011236	AY011296	JN413971
<i>Meles_meles</i>	JN413859	GU930868	JN633674	JN413991
<i>Mephitis_mephitis</i>	JN413860	GU930860	JN633673	JN413990
<i>Mesocricetus_auratus</i>	FM162044	APMT01106216	APMT01089351	APMT01127824
<i>Mesoplodon_bidens</i>	JN413861	JN413902	JN413913	JN413976
<i>Microcebus_murinus</i>	AM050858	GU230981	EU142144	JN414037
<i>Microtus_agrestis_Northern</i>	WGS specimen from England	WGS specimen from England	WGS specimen from England	WGS specimen from England
	LIQJ01000465	LIQJ01012119	LIQJ01003279	LIQJ01001469
<i>Microtus_ochrogaster</i>	AHZW01122540	AHZW01160872	AHZW01010266	AHZW01070319
<i>Monodelphis_domestica</i>	AAFR03003568	Ensembl 66	XM_001380743	XM_001377551
<i>Mus_musculus</i>	AF332050	AY011211	AY011270	NM_009693
<i>Mustela_putorius</i>	PreEnsembl 65	PreEnsembl 65	PreEnsembl 65	EF987528
<i>Myocastor_coypus</i>	JN413864	JN633435	AY011279	JX515307
<i>Myodes_glareolus</i>	AJ891053	LIPI01004679	LIPI01010950	LIPI01003054
<i>Myotis_brandtii</i>	ANKR01172987	ANKR01171337	ANKR01227161	ANKR01258291
<i>Myotis_daubentonii</i>	AF337540	XXXXXX	AY834451	XXXXXX
<i>Myotis_davidii</i>	ALWT01081721	ALWT01098650	ALWT01127348	ALWT01141937
<i>Myotis_lucifugus</i>	JN413865	Ensembl 64	Ensembl 66	JN414020
<i>Myrmecobius_fasciatus</i>	JN413866	JN633411	JN633657	FJ603113
<i>Myrmecophaga_tridactyla</i>	AJ427373	AY011196	AY011257	JN413960
<i>Mystacina_tuberculata</i>	AY245423	AY834431	AY834455	JN414009
<i>Myzopoda_aurita</i>	AY834408	AY834428	AY834452	JN414010
<i>Nandinia_binotata</i>	JN413867	GU930857	XXXXXX	JN413992
<i>Nannospalax_ehrenbergi</i>	AJ891078	JN633448	JN633702	JN414072

Name	A2AB	Adora3	ADRB2	ApoB
<i>Nannospalax_galili</i>	AXCS01011252	AXCS01076154	AXCS01098101	AXCS01017308
<i>Nasalis_larvatus</i>	JMHX01219485 and JMHX01017966	HM765120	JMHX01189631	JMHX01319542
<i>Natalus_stramineus</i>	AJ419815	AY834433	AY834457	JN414011
<i>Noctilio_albiventris</i>	AJ419812	AY834424	AY834448	JN414012
<i>Nomascus_leucogenys</i>	ADVF01128004 and TI# 2039827488 (change call to two Gs instead of three Gs at 806-808 of trace)	HM765144	Trace files gnl ti 2038745608, gnl ti 2100591954, gnl ti 1897261872, gnl ti 2048646151	Ensembl 65
<i>Notoryctes_typhlops</i>	JN413868	JN633395	JN633643	AY243424 + JN413937
<i>Nycteris_thebaica</i>	AJ419808	AY011235	AY011295	JN414013
<i>Nycticebus_coucang</i>	AJ251186	EU342236	JN633686	JN414042
<i>Nyctimene_albiventer</i>	AJ419805	AY834413	AY834437	JN414016
<i>Ochotona_princeps</i>	AJ315938	Ensembl 64	AAYZ01111579	AF548414 + JN414023
<i>Octodon_degus</i>	AJSA01092111	AJSA01171160	AJSA01077598	AJSA01045617
<i>Octodontomys_gliroides</i>	JN413869	JN633444	XXXXXX	JN414066
<i>Odobenus_rosmarus</i>	JN413870	GU167606	ANOP01021158	JN413993
<i>Okapia_johnstoni</i>	JN413871	AY011242	AY011302	JN413965
<i>Orcinus_orca_Norway</i>	ANOL01048305	ANOL01003137	ANOL01056286	ANOL01038728
<i>Orycteropus_ afer</i>	JQ965670	AY011206	AY011266	JN413950
<i>Oryctolagus_cuniculus</i>	Y15946	NM_001082058	Ensembl 65	Ensembl 66
<i>Otolemur_garnettii</i>	JN413872	KJ419053	Ensembl 65	JN414039
<i>Ovis_aries</i>	XM_004006169	PreEnsembl 65	EU707942	AMGL01075676
<i>Pan_paniscus</i>	AJFE01015177	HM765151	AJFE01102350	AJFE01094772
<i>Pan_troglodytes</i>	Ensembl 66	HM765153	GU373723	Ensembl 65
<i>Panthera_tigris</i>	ATCQ01055728	ATCQ01021669	ATCQ01122148	ATCQ01048137
<i>Pantholops_hodgsonii</i>	Scaffold 175	Scaffold 575	Scaffold 669	Scaffold 630
<i>Papio_anubis</i>	AHZZ01038019	AHZZ01011703	NC_018157	AHZZ01016761
<i>Papio_hamadryas</i>	PreEnsembl 65	HM765122	PreEnsembl 65	PreEnsembl 65
<i>Pecari_tajacu</i>	JN413873	JN633422	JN633666	JN413969
<i>Pedetes_capensis</i>	JN413874	AY011210	JN633699	JN414067
<i>Peromyscus_maniculatus</i>	AYHN01080247	AYHN01079709	AYHN01072238	AYHN01055053
<i>Petaurus_breviceps</i>	JN413875	JN633402	JN633649	JN413938
<i>Petromus_typicus</i>	AJ427268	JN633445	JN633700	JN414068
<i>Phascolarctos_cinereus</i>	JN413877	JN633404	JN633651	AY243421 + JN413939
<i>Phoca_vitulina</i>	JN413878	GU930874	JN633675	JN413995
<i>Phocoena_phocoena</i>	JN413879	JN413905	JN413916	JN413979
<i>Physeter_macrocephalus</i>	AJ427417	JN413907	JN413918	JN413981
<i>Pithecia_pithecia</i>	AM050857	HM765215	XXXXXX	XXXXXX
<i>Platanista_minor</i>	JN413880	JN413908	JN413919	JN413982
<i>Podogymnura_truei</i>	JN413881	JN633426	JN633682	JN414025
<i>Pongo_abelii</i>	Ensembl 66	XM_002810439	XM_002816061	Ensembl 66
<i>Pontoporia_blainvillei</i>	JN413882	JN413909	JN413920	JN413983
<i>Prionodon_linsang</i>	JN413883	GU930841	JN633668	JN413984
<i>Procavia_capensis</i>	ABRQ01384162	AY011203	AY011263	JN413952
<i>Procyon_lotor</i>	JN413884	GU930881	JN633676	JN413996
<i>Propithecus_coquereli</i>	JZKE01070948	JZKE01235059	JZKE01231911	JZKE01187754
<i>Propithecus_verreauxi</i>	AJ891076	HM765225	XXXXXX	XXXXXX
<i>Pseudochirops_cupreus</i>	JN413885	JN633407	JN633653	FJ603114 + JN413940
<i>Pteronotus_parnellii</i>	AY245422	AY834429	AY834453	JN414008
<i>Pteropus_alecto</i>	ALWS01030414	ALWS01087411	ALWS01012500	ALWS01035155
<i>Pteropus_giganteus</i>	JN413886	AY011233	AY011293	JN414015
<i>Pteropus_vampyrus</i>	Ensembl 64	ABRP02010652	Ensembl 65	Ensembl 65
<i>Ptilocercus_lowii</i>	JN413887	EU213052	EU142145	JN414032
<i>Rattus_norvegicus</i>	Ensembl 66	NM_012896	AY011271	AY321317
<i>Rhinolophus_craghi</i>	AJ419806	AY834414	AY834438	AY243371 + JN414017
<i>Rhinolophus_ferrumequinum</i>	AWHA01049021	AWHA01179609	AWHA01107390	AWHA01248641
<i>Rhinopithecus_roxellana</i>	JABR01021146	JABR01105597	JABR01086911	JABR01080156
<i>Rhinopoma_hardwickii</i>	AJ419809	AY834417	AY834441	JN414018
<i>Rhogeessa_tumida</i>	AJ419814	XXXXXX	AY834450	XXXXXX
<i>Rhynchocyon_petersi</i>	JN413888	JN633413	JN633659	JN413949
<i>Rhyncholestes_raphanurus</i>	JN413889	JN633397	XXXXXX	AY243432 +JN413941

Name	A2AB	Adora3	ADRB2	ApoB
<i>Saccopteryx_bilineata</i>	JN413890	JN633425	XXXXXX	XXXXXX
<i>Saimiri_boliviensis</i>	PreEnsembl 66	HM765204	PreEnsembl 66	PreEnsembl 66
<i>Sarcophilus_harrisii</i>	Ensembl 66	Ensembl 65	Ensembl 65	Ensembl 65
<i>Solenodon_paradoxus</i>	AY530081	AY451970	AY530067	JN414026
<i>Sorex_araneus</i>	AALT02085723	AY011200	AY011261	JN414027
<i>Spermophilus_tridecemlineatus</i>	AGTP01102144	Ensembl 64	PreEnsembl 66	PreEnsembl 66
<i>Suricata_suricatta</i>	AJ891080	GU930846	JN633671	JN413988
<i>Sus_scrofa</i>	DQ182110	LIDP01000004	AY011301	JN413968
<i>Tadarida_brasiliensis</i>	AF337542	AY059669	JN633680	AF548430 + JN414007
<i>Talpa_altaica</i>	JN413891	AY011198	AY011259	JN414028
<i>Tamias_striatus</i>	JN413847	AY011207	AY011267	JN414069
<i>Tapirus_indicus</i>	JN413892	AY011245	AY011305	JN414031
<i>Tarsipes_rostratus</i>	JN413893	JN633408	JN633654	FJ603116 + JN413942
<i>Tarsius_bancanus</i>	AJ891081	AY011226	XXXXXX	XXXXXX
<i>Tarsius_syrichta</i>	ABRT02375834	AF535033	ABRT02404989	JN414043
<i>Thryonomys_swinderianus</i>	AJ427267	JN633446	XXXXXX	JN414070
<i>Tragulus_napu</i>	JN413894	JN633423	JN633667	JN413970
<i>Trichechus_manatus</i>	AJ251109	AHIN01076245	AHIN01106093	JN413954
<i>Trichosurus_vulpecula</i>	JN413895	JN633403	JN633650	JN413943
<i>Tupaia_belangeri</i>	AY150333	ALAR01059806	Ensembl 65	ALAR01209648
<i>Tupaia_minor</i>	JN413896	HM765254	AY011285	JN414033
<i>Tursiops_truncatus</i>	JN413897	AY011237	AY011297	JN413972
<i>Urogale_everetti</i>	EU142141	XXXXXX	AF535035	XXXXXX
<i>Ursus_americanus</i>	black bear genome	genome	genome	genome
<i>Ursus_arctos</i>	brown bear genome	genome	AY011310	genome
<i>Ursus_maritimus</i>	Scaffold 1	scaffold 36	Scaffold 4	Scaffold 1
<i>Vicugna_pacos</i>	ABRR02049478	ABRR02145625	Ensembl 65	ABRR02007676
<i>Vombatus_ursinus</i>	JN413898	JN633409	JN633655	AY243429 + JN413944
<i>Allenopithecus_nigroviridis</i>	XXXXXX	HM765081	XXXXXX	XXXXXX
<i>Alouatta_sara</i>	XXXXXX	HM765174	XXXXXX	XXXXXX
<i>Anolis_carolinensis</i>	XXXXXX	Ensembl 73	Ensembl 66	Ensembl 66
<i>Cacajao_calvus</i>	XXXXXX	HM765187	XXXXXX	XXXXXX
<i>Callimico_goeldii</i>	XXXXXX	HM765160	AY011290	XXXXXX
<i>Cercocebus_chrysogaster</i>	XXXXXX	HM765082	XXXXXX	XXXXXX
<i>Cercopithecus_albogularis</i>	XXXXXX	HM765084	XXXXXX	XXXXXX
<i>Cercopithecus_diana</i>	XXXXXX	HM765087	XXXXXX	XXXXXX
<i>Cynopterus_brachyotis</i>	XXXXXX	KP175743	AY834436	New sequence
<i>Erinaceus_concolor</i>	XXXXXX	AY011197	XXXXXX	XXXXXX
<i>Erythrocebus_patas</i>	XXXXXX	HM765100	XXXXXX	XXXXXX
<i>Eulemur_mongoz</i>	XXXXXX	EU342227	XXXXXX	XXXXXX
<i>Galago_senegalensis</i>	XXXXXX	HM765246	XXXXXX	XXXXXX
<i>Gallus_gallus</i>	XXXXXX	Ensembl 73	AADN03013442	Ensembl 66
<i>Graphiurus_murinus</i>	XXXXXX	JN633443	JN633698	JN414065
<i>Haplemur_griseus</i>	XXXXXX	HM765235	XXXXXX	XXXXXX
<i>Hylobates_agilis</i>	XXXXXX	HM765142	XXXXXX	FJ648359
<i>Hylobates_muelleri</i>	XXXXXX	HM765145	XXXXXX	FJ648360
<i>Lagothrix_lagotricha</i>	XXXXXX	HM765159	XXXXXX	XXXXXX
<i>Leontopithecus_rosalia</i>	XXXXXX	HM765169	XXXXXX	XXXXXX
<i>Macaca_fuscata</i>	XXXXXX	HM765106	XXXXXX	XXXXXX
<i>Miopithecus_ogouensis</i>	XXXXXX	HM765119	XXXXXX	XXXXXX
<i>Moschus_moschiferus</i>	XXXXXX	JN633421	JN633665	XXXXXX
<i>Neovison_vison</i>	XXXXXX	GU930869	XXXXXX	AB193421
<i>Nomascus_concolor</i>	XXXXXX	AY011229	AY011289	XXXXXX
<i>Ochotona_hyperborea</i>	XXXXXX	AY011222	AY011283	XXXXXX
<i>Ornithorhynchus_anatinus</i>	XXXXXX	XM_001517692	Ensembl 66	NM_001242755
<i>Panthera_onca</i>	XXXXXX	AY011248	AY011308	GU930887
<i>Pongo_pygmaeus</i>	XXXXXX	HM765154	AY091937	AY091955
<i>Propithecus_diadema</i>	XXXXXX	EU342238	XXXXXX	XXXXXX
<i>Pygathrix_nemaeus</i>	XXXXXX	HM765127	XXXXXX	XXXXXX
<i>Rousettus_lanosus</i>	XXXXXX	KP175742	AY011294	XXXXXX
<i>Saguinus_fuscicollis</i>	XXXXXX	HM765197	XXXXXX	XXXXXX
<i>Saimiri_oerstedii</i>	XXXXXX	HM765205	XXXXXX	XXXXXX
<i>Saimiri_sciureus</i>	XXXXXX	HM765206	XXXXXX	XXXXXX
<i>Semnopithecus_entellus</i>	XXXXXX	HM765131	XXXXXX	XXXXXX
<i>Sylvilagus_floridanus</i>	XXXXXX	AY011221	XXXXXX	XXXXXX

Name	A2AB	Adora3	ADRB2	ApoB
<i>Symphalangus syndactylus</i>	XXXXXX	HM765149	XXXXXX	XXXXXX
<i>Tachyglossus aculeatus</i>	XXXXXX	JN633391	JN633639	AF548433 + JN413922
<i>Taeniopygia guttata</i>	XXXXXX	Ensembl 73	Ensembl 66	ABQF01024903
<i>Thyroptera tricolor</i>	XXXXXX	AY834430	AY834454	JN414019
<i>Trachypithecus francoisi</i>	XXXXXX	HM765136	XXXXXX	XXXXXX
<i>Tupaia glis</i>	XXXXXX	HM765253	XXXXXX	XXXXXX
<i>Tamandua tetradactyla</i>	XXXXXX	XXXXXX	AY011256	AF548426
<i>Xenopus tropicalis</i>	XXXXXX	XXXXXX	AAMC02011645	AAMC02034187

Name	APP	ATP7A	BCHE	BDNF
<i>Abrocoma bennettii</i>	JN633553	JN633742	JN633041	XXXXXX
<i>Acinonyx jubatus</i>	DQ081744	LLWD01001016	LLWD01001150	GU930974 gene
<i>Acrobates pygmaeus</i>	JN633523	XXXXXX	JN632975	JN633347
<i>Aepyprymnus rufescens</i>	JN633528	JN633716	JN632980	JN633352
<i>Ailuropoda melanoleuca</i>	XM_002920065	GU930973	ACTA01088269	GU931015
<i>Ailurus fulgens</i>	GU930934	GU930967	JN633006	GU931010
<i>Amblysomus hottentotus</i>	AY059677	AY059681	JN632986	AY059685
<i>Anomalurus beecroftii</i>	JN633554	JN633743	XXXXXX	JN633380
<i>Anoura geoffroyi</i>	AY834471	AY834495	XXXXXX	AY834519 gene
<i>Antilocapra americana</i>	JN633541	JN633730	JN414106	JN633366
<i>Antrozous pallidus</i>	AY834473	AY834497	XXXXXX	AY834521 gene
<i>Aotus nancymae</i>	HM764648	JYKP01063745	HM764104	JYKP01046398
<i>Aplodontia rufa</i>	JN633555	JN633744	XXXXXX	JN633381
<i>Apodemus sylvaticus</i>	LIPJ01022002	LIPJ01010472	LIPJ01007940	LIPJ01014057
<i>Arctocephalus forsteri</i>	GU930929	GU930962	JN633013	JN633372
<i>Artibeus jamaicensis</i>	AY011355	KC783007	JN633025	AY011482
<i>Ateles fusciceps</i>	AY011351	AY011414	EU142156	EU142177
<i>Balaena mysticetus</i>	scaffold 795	Scaffold 333	scaffold 2186	EU444888 (identical to scaffold 869)
<i>Balaenoptera acutorostrata</i>	ATDI01080418	EU444960	ATDI01131101	EU444885
<i>Balaenoptera bonaerensis</i>	BAUQ01234463	EU444959	BAUQ01323611	EU444884
<i>Bison bison</i>	JPYT01285900	JPYT01116553	JPYT01775816	JPYT01253750
<i>Bos grunniens</i>	AGSK01127816	AGSK01015525	AGSK01071578	AGSK01033912
<i>Bos indicus</i>	AGFL01000647	XXXXXX	AGFL01007467	AGFL01132240
<i>Bos taurus</i>	Ensembl 66	NM_001192852	NM_001076906	Ensembl 65
<i>Bradypus tridactylus</i>	JN633539	JN633728	JN632994	JN633364
<i>Bubalus bubalis</i>	ACZF020005951 and ACZF020005950	AWWX01608363	AWWX01595613	AWWX01623625
<i>Caenolestes fuliginosus</i>	JN633519	JN633708	JN632971	JN633343
<i>Callithrix jacchus</i>	HM764635	XM_002763026	HM764113	Ensembl 65
<i>Caluromys philander</i>	JN633516	JN633705	JN632967	JN633340
<i>Camelus bactrianus</i>	CAOW010154352	CAOW010765556	CAOW010115380	JARL01029650
<i>Camelus dromedarius</i>	GAEA01056326	JWIN01030507	JWIN01029746	GQ487619 gene
<i>Camelus ferus</i>	AGVR01033547	AGVR01063826	AGVR01028033	AGVR01060768
<i>Canis familiaris</i>	AY011372	AY011436	XM_545267	AY011499
<i>Caperea marginata</i>	JN414074	JN414084	JN414095	JN414108
<i>Capra aegagrus</i>	CBYH010043162	CBYH010061561	CBYH010056935	CBYH010027878
<i>Capra hircus</i>	AJPT01000995	AJPT01240857	AJPT01009411	AJPT01151864
<i>Capreolus capreolus</i>	CCMK010130799	CCMK010123070	CCMK010037175	CCMK010071712
<i>Capromys pilorides</i>	XXXXXX	JN633745	JN633044	XXXXXX
<i>Castor canadensis</i>	AY011331	AY011394	EU142150	AY011458
<i>Cavia aperea</i>	AVPZ01000478	XXXXXX	AVPZ01000267	AVPZ01000722
<i>Cavia porcellus</i>	Ensembl 66	AAKN02029756	Ensembl 64	AAKN02047042
<i>Cebus albifrons</i>	JN633549L	JN633738	JN633037	JN633376
<i>Ceratotherium simum</i>	AY011367	AY011431	AKZM01014441	AY011494
<i>Cercartetus nanus</i>	JN633524	JN633712	JN632976	JN633348
<i>Cercocebus atys</i>	JZLG01039664	JZLG01027315	JZLG01073659	JZLG01041771
<i>Cervus taiouanus</i>	JN633542	JN633731	JN632998	JN633367
<i>Cheirogaleus medius</i>	HM764681	XXXXXX	HM764123	HM763870
<i>Chinchilla lanigera</i>	JN633556	JN633747	JN633046	AGCD01055340
<i>Chlorocebus sabaeus</i>	HM764570	AQIB01153006	HM764144	AQIB01085023
<i>Choloepus didactylus</i>	AY011314	AY011378	XXXXXX	AY011442
<i>Choloepus hoffmanni</i>	AY011313	AY011377	ABVD02190002	AY011441

Name	APP	ATP7A	BCHE	BDNF
<i>Chrysochloris asiatica</i>	JN633534	JN633723	JN632987	JN633359
<i>Colobus angolensis</i>	JYKR01169642	JYKR01085094	JYKR01073962	JYKR01035947
<i>Condylura cristata</i>	AY011321	AY011385	AJFV01007579	AY011449
<i>Craseonycteris thonglongyai</i>	KP175773	AY834507	XXXXXX	KP175839
<i>Cratogeomys castanops</i>	JN633561	JN633753	JN633054	XXXXXX
<i>Cricetulus griseus</i>	AY011336	AY011399	PreEnsembl 66	AY011463 gene
<i>Crocota crocuta</i>	DQ081768	DQ082629	JN633009	JN633371
<i>Ctenodactylus gundi</i>	JN633557	JN633749	JN633047	JN633384
<i>Ctenomys boliviensis</i>	JN633558	JN633750	JN633048	JN633385
<i>Cuniculus taczanowskii</i>	AY011344	AY011407	JN633042	AY011471
<i>Cyclopes didactylus</i>	JN633540	JN633729	JN632996	XXXXXX
<i>Cynocephalus volans</i>	AF535039	AF535043	EU142154	AF535048
<i>Cynopterus sphinx</i>	XXXXXX	GAOV01061430	GAOV01106078	GAOV01147513 (5' fragment) and GAOV01147512 (3' fragment)
<i>Dasyprocta punctata</i>	JN633559	JN633751	JN633049	XXXXXX
<i>Dasypus novemcinctus</i>	#NAME?	AAGV03191891	AAGV03254222	Ensembl 65
<i>Dasyurus albopunctatus</i>	JN633532	JN633721	JN632984	JN633357
<i>Daubentonia madagascariensis</i>	JN633550	JN633739	JN633038	JN633377
<i>Delphinapterus leucas</i>	JN414078	GQ487604	JN414100	JN414113
<i>Desmodus rotundus</i>	AY834470	AY834494	XXXXXX	AY834518 gene
<i>Didelphis virginiana</i>	AY059678	AY011375	JN632966	AY011439
<i>Dinomys branickii</i>	AY011343	AY011406	JN633050	AY011470
<i>Dipodomys heermanni</i>	AY011339	AY011402	XXXXXX	AY011466
<i>Dipodomys ordii</i>	Ensembl 66	ABRO02056755	ABRO02025253	Ensembl 64
<i>Dromiciops gliroides</i>	EF104986	EF104987	JN632969	EF104989
<i>Dugong dugon</i>	JN633537	JN633726	JN632991	KR827244 + 3 Ns filled in based on KR827247
<i>Echinops telfairi</i>	AY011323	AY011387	AAIY01683518	AY059686
<i>Echymipera kalubu</i>	JN633522	JN633711	JN632974	JN633346
<i>Eidolon helvum</i>	AWHC01281653	XXXXXX	AWHC01277175	AWHC01187761
<i>Elephantulus edwardii</i>	AMGZ01200194	AMGZ01256578	AMGZ01135699	AMGZ01061901
<i>Elephantulus rufescens</i>	AY011328	AY011391	KC113259	AY011455
<i>Elephas maximus</i>	JN633538	JN633727	JN632993	JN633363
<i>Emballonura atrata</i>	AY834466	AY834490	XXXXXX	AY834514 gene
<i>Eptesicus fuscus</i>	ALEH01062593	ALEH01141195	ALEH01039605	ALEH01079717
<i>Equus asinus</i>	JREZ01000436	JREZ01000574	JREZ01000432	JREZ01000081
<i>Equus caballus</i>	AY011366	AY011430	NM_001081850	AY011493
<i>Equus przewalskii</i>	ATBW01010128	ATBW01089250	ATBW01024171	ATBW01002804
<i>Erethizon dorsatum</i>	AY011338	AY011401	JN633053	AY011465
<i>Erinaceus europaeus</i>	AMDU01058631	Ensembl 66	AMDU01091458	Ensembl 65
<i>Eschrichtius robustus</i>	XXXXXX	JN414086	JN414097	JN414110
<i>Eubalaena australis</i>	JN414075	JN414085	JN414096	JN414109
<i>Eulemur flavifrons</i>	HM764695	LGHW01005725	LGHW01003220	LGHW01003586
<i>Eulemur macaco</i>	HM764694	LGHX01005636	LGHX01003186	LGHX01003545
<i>Eumops auripendulus</i>	AY834482	AY834506	XXXXXX	AY834530 gene
<i>Euphractus sexcinctus</i>	AY011315	AY011379	XXXXXX	AY011443 gene
<i>Felis catus</i>	DQ081730	AY011433	NM_001009364	AY011496
<i>Fossa fossana</i>	GU930912	GU930945	JN633007	GU930988
<i>Fukomys damarensis</i>	AYUG01146101	AYUG01125727	AYUG01078201	AYUG01123754
<i>Furipterus horrens</i>	AY834480	KM361944	XXXXXX	AY834528
<i>Galeopterus variegatus</i>	AY011347	AY011410	EU142153	AY011474
<i>Genetta genetta</i>	DQ081772	DQ082633	JN633017	GU930990
<i>Glironia venusta</i>	JN633517	JN633706	JN632968	JN633341
<i>Gorilla gorilla</i>	HM764624	Ensembl 64	HM764176	HM763827
<i>Heterocephalus glaber</i>	AY011340	AY011403	JN633043	AFSB01100387
<i>Heterohyrax brucei</i>	JN633536	JN633725	JN632990	JN633361
<i>Hippopotamus amphibius</i>	AY011361	AY011425	JN633000	AY011488
<i>Hipposideros commersoni</i>	AY834463	AY834487	JN633020	AY834511
<i>Homo sapiens</i>	AY011354	AY011418	EU142157	AY011481
<i>Hoplomys gymnurus</i>	XXXXXX	JN633752	JN633052	XXXXXX
<i>Hydrochoeris hydrochaeris</i>	AY011342	AY011405	JN633055	AY011469
<i>Hydrodamalis gigas</i>	consensus	Consensus	consensus	Consensus
<i>Hylobates lar</i>	HM764617	FJ648398	HM764136	HM763822

Name	APP	ATP7A	BCHE	BDNF
<i>Hypsiprymnodon moschatus</i>	JN633529	XXXXXX	JN632981	JN633353
<i>Hystrix brachyura</i>	AY011337	AY011400	JN633056	AY011464
<i>Inia geoffrensis</i>	JN414077	JN414088	JN414099	JN414112
<i>Isoodon macrourus</i>	JN633520	JN633709	JN632973	JN633344
<i>Jaculus jaculus</i>	AKZC01077781	AKZC01253477	JN633051	AKZC01162010
<i>Kogia breviceps</i>	JN414080	JN414091	JN414102	JN414115
<i>Lama glama</i>	AY011362	AY011426	JN632997	AY011489
<i>Laonastes aenigmamus</i>	JN633566	JN633758	JN633061	JN633388
<i>Lemur catta</i>	AY011349	AY011412	EU142155	AY011476
<i>Leptonychotes weddellii</i>	GU167656	APMU01001564	APMU01012386	GU167728 gene
<i>Lipotes vexillifer</i>	AUPI01123281	AUPI01012971	AUPI01007093	AUPI01095792
<i>Loxodonta africana</i>	AY011326	AY011390	Ensembl 66	AY011453
<i>Macaca fascicularis</i>	HM764578	AEHL01430186	HM764148	HM763789
<i>Macaca mulatta</i>	AY011352	AY011415	XM_002808333	AY011478
<i>Macaca nemestrina</i>	JZLF01066781	JZLF01005896	HM764166	JZLF01042704
<i>Macroderma gigas</i>	AY834464	AY834488	XXXXXX	AY834512 gene
<i>Macropus eugenii</i>	AY011312	AY011376	Ensembl 66	AY011440
<i>Macroscelides proboscideus</i>	AY011327	AY059682	XXXXXX	AY011454 gene
<i>Macrotis lagotis</i>	JN633521	JN633710	XXXXXX	JN633345
<i>Mandrillus leucophaeus</i>	JYKQ01179459	JYKQ01226827	JYKQ01237777	JYKQ01205236
<i>Manis pentadactyla</i>	AY011374	AY011438	JN633018	AY011501
<i>Manis tricuspis</i>	XXXXXX	JN633735	JN633019	JN633373
<i>Marmota marmota</i>	CEEU01000005	CEEU01000108	CEEU01000038	CEEU01000004
<i>Megaderma lyra</i>	AY059680	AY059684	JN633021	AY059688
<i>Megaptera novaeangliae</i>	AY011359	AY011423	JN633004	AY011486
<i>Meles meles</i>	GU930925	GU930958	JN633011	GU931002
<i>Mephitis mephitis</i>	GU930918	GU930951	JN633010	GU930995
<i>Mesocricetus auratus</i>	APMT01083232	APMT01186148	APMT01100704	APMT01007498
<i>Mesoplodon bidens</i>	JN414076	JN414087	JN414098	JN414111
<i>Microcebus murinus</i>	EU142146	ABDC01401788 and ABDC01544569	HM764138	EU142161
<i>Microtus agrestis Northern</i>	WGS specimen from England LIQJ01000532 deleted	WGS specimen from England LIQJ01008612	WGS specimen from England LIQJ01000306	WGS specimen from England LIQJ01002043 reduced string of Ns
<i>Microtus ochrogaster</i>	AHZW01124588	AHZW01161588	AHZW01024823	AHZW01134202
<i>Monodelphis domestica</i>	Ensembl 66	XM_001363299	Ensembl 66	XM_001368353
<i>Mus musculus</i>	AY011334	AY011397	Ensembl 66	AY011461
<i>Mustela putorius</i>	PreEnsembl 66	PreEnsembl 65	AGTQ01007252	EF987626 gene
<i>Myocastor coypus</i>	XXXXXX	JN633746	JN633045	JN633382
<i>Myodes glareolus</i>	LIP101001165	LIP101031198	LIP101019820	LIP101000749
<i>Myotis brandtii</i>	ANKR01177881	ANKR01269851	ANKR01160622	ANKR01246086
<i>Myotis daubentonii</i>	AY834475	AY834499	XXXXXX	AY834523 gene
<i>Myotis davidii</i>	ALWT01058843	ALWT01029785	ALWT01083962	ALWT01018826
<i>Myotis lucifugus</i>	AAPE02031163	Ensembl 66	Ensembl 66	Ensembl 65
<i>Myrmecobius fasciatus</i>	JN633533	JN633722	JN632985	JN633358
<i>Myrmecophaga tridactyla</i>	AY011318	AY011382	JN632995	AY011446
<i>Mystacina tuberculata</i>	AY834479	AY834503	XXXXXX	AY834527
<i>Myzopoda aurita</i>	AY834476	AY834500	XXXXXX	AY834524
<i>Nandinia binotata</i>	GU930915	GU930948	JN633012	GU930992
<i>Nannospalax ehrenbergi</i>	XXXXXX	JN633759	XXXXXX	JN633389
<i>Nannospalax galili</i>	AXCS01151017	AXCS01095378	AXCS01355899	AXCS01018464
<i>Nasalis larvatus</i>	HM764593	JMHX01319538	JMHX01319530	JMHX01319543
<i>Natalus stramineus</i>	AY834481	AY834505	JN633024	AY834529
<i>Noctilio albiventris</i>	AY834472	KC783038	XXXXXX	AY834520 gene
<i>Nomascus leucogenys</i>	Ensembl 66	XM_003269039	XM_003256400	Ensembl 65
<i>Notoryctes typhlops</i>	JN633518	JN633707	JN632970	JN633342
<i>Nycteris thebaica</i>	AY011358	AY011422	XXXXXX	AY011485
<i>Nycticebus coucang</i>	JN633552	JN633741	JN633040	JN633379
<i>Nyctimene albiventer</i>	KP175778	AY834485	JN633027	AY834509
<i>Ochotona princeps</i>	Ensembl 66	AAYZ01601873	ALIT01107822	O. princeps
<i>Octodon degus</i>	AJSA01048207	AJSA01235526	AJSA01216561	AJSA01199394
<i>Octodontomys gliroides</i>	JN633563	JN633755	JN633058	XXXXXX
<i>Odobenus rosmarus</i>	GU930933	GU930966	ANOP01003285	GU931009
<i>Okapia johnstoni</i>	AY011365	AY011429	JN632999	AY011492
<i>Orcinus orca Norway</i>	ANOL01007870	ANOL01056729	ANOL01068001	ANOL01006713

Name	APP	ATP7A	BCHE	BDNF
<i>Orycteropus afer</i>	AY011329	AY011392	JN632989	AY011456
<i>Oryctolagus cuniculus</i>	NM_001195669	XM_002720131	XM_002716368	Ensembl 65
<i>Otolemur garnettii</i>	Ensembl 66	AF535044	Ensembl 66	AF535049
<i>Ovis aries</i>	AMGL01006077	AMGL01116101	AMGL01010037	AMGL01032640
<i>Pan paniscus</i>	HM764625	AJFE01085991	XM_003817698	HM763828
<i>Pan troglodytes</i>	HM764626	AF535046	HM764133	AF535050
<i>Panthera tigris</i>	DQ081763	DQ082624	ATCQ01025916	ATCQ01152878
<i>Pantholops hodgsonii</i>	Scaffold 475	Scaffold 371	Scaffold 93	Scaffold 297
<i>Papio anubis</i>	HM764594	AHZZ01040122	HM764096	AHZZ01191662
<i>Papio hamadryas</i>	HM764595	PreEnsembl 65	HM764085	HM763802
<i>Pecari tajacu</i>	JN633544	JN633733	JN633002	JN633369
<i>Pedetes capensis</i>	AY011333	AY011396	XXXXXX	AY011460
<i>Peromyscus maniculatus</i>	AYHN01088716	AYHN01115324	AYHN01012664	AYHN01051544
<i>Petaurus breviceps</i>	JN633525	JN633713	JN632977	JN633349
<i>Petromus typicus</i>	JN633564	JN633756	JN633059	JN633387
<i>Phascolarctos cinereus</i>	JN633527	JN633715	JN632979	JN633351
<i>Phoca vitulina</i>	GU930931	GU930964	JN633014	GU931007
<i>Phocoena phocoena</i>	JN414079	JN414090	JN414101	JN414114
<i>Physeter macrocephalus</i>	JN414081	JN414092	JN414103	JN414116
<i>Pithecia pithecia</i>	HM764678	XXXXXX	HM764072	FJ648367
<i>Platanista minor</i>	JN414082	JN414093	JN414104	JN414117
<i>Podogymnura truei</i>	JN633548	JN633737	XXXXXX	JN633375
<i>Pongo abelii</i>	Ensembl 66	Ensembl 65	Ensembl 65	Ensembl 65
<i>Pontoporia blainvillei</i>	JN414083	JN414094	JN414105	JN414118
<i>Prionodon linsang</i>	DQ081767	DQ082628	JN633005	GU930978
<i>Procavia capensis</i>	AY011325	AY011389	KC113260	AY011452
<i>Procyon lotor</i>	GU930937	GU930971	JN633015	GU931013
<i>Propithecus coquereli</i>	HM764690	JZKE01281665	JZKE01209192	JZKE01146377
<i>Propithecus verreauxi</i>	XXXXXX	XXXXXX	HM764139	HM763877
<i>Pseudochirops cupreus</i>	JN633530	JN633718	JN632982	JN633354
<i>Pteronotus parnellii</i>	KP175771	AY834501	JN633023	AY834525
<i>Pteropus alecto</i>	ALWS01023881	ALWS01034242	ALWS01023209	ALWS01021798
<i>Pteropus giganteus</i>	AY011356	AY011420	JN633026	AY011483
<i>Pteropus vampyrus</i>	Ensembl 64	Ensembl 64	Ensembl 65	Ensembl 65
<i>Ptilocercus lowii</i>	EU142147	EU142148	EU142160	EU142162
<i>Rattus norvegicus</i>	AY011335	AY011398	Ensembl 64	AY011462 gene
<i>Rhinolophus creaghi</i>	AY834462	AY834486	JN633028	AY834510
<i>Rhinolophus ferrumequinum</i>	AWHA01057119	AWHA01013018	AWHA01075222	AWHA01095002
<i>Rhinopithecus roxellana</i>	JABR01081111	JABR01067945	JABR01097653	JABR01058482
<i>Rhinopoma hardwickii</i>	AY834465	AY834489	XXXXXX	AY834513
<i>Rhogeessa tumida</i>	AY834474	AY834498	XXXXXX	AY834522 gene
<i>Rhynchocyon petersi</i>	JN633535	JN633724	JN632988	JN633360
<i>Rhyncholestes raphanurus</i>	EF104985	XXXXXX	JN632972	EF104988
<i>Saccopteryx bilineata</i>	JN633546	JN633736	XXXXXX	JN633374
<i>Saimiri boliviensis</i>	PreEnsembl 66	AGCE01103824	PreEnsembl 66	PreEnsembl 66
<i>Sarcophilus harrisii</i>	Ensembl 66	Ensembl 65	Ensembl 65	Ensembl 65
<i>Solenodon paradoxus</i>	AY530068	AY530069	JN633032	AY530070
<i>Sorex araneus</i>	AY011322	AY011386	JN633033	Ensembl 65
<i>Spermophilus tridecemlineatus</i>	AAQQ01242066	Ensembl 66	PreEnsembl 66	Ensembl 64
<i>Suricata suricatta</i>	DQ081770	DQ082631	JN633008	GU930982
<i>Sus scrofa</i>	AY011364	Ensembl 66	JN414107	AY011491
<i>Tadarida brasiliensis</i>	AY059679	AY059683	JN633022	AY059687
<i>Talpa altaica</i>	AY011320	AY011384	JN633034	AY011448
<i>Tamias striatus</i>	AY011330	AY011393	EU142149	AY011457 gene
<i>Tapirus indicus</i>	AY011368	AY011432	JN633036	AY011495
<i>Tarsipes rostratus</i>	XXXXXX	JN633719	JN632983	JN633355
<i>Tarsius bancanus</i>	AY011350	AY011413	HM764200	XXXXXX
<i>Tarsius syrichta</i>	AF535041	AF535045	HM764115	Ensembl 64
<i>Thryonomys swinderianus</i>	JN633565	JN633757	JN633060	XXXXXX
<i>Tragulus napu</i>	JN633545	JN633734	JN633003	JN633370
<i>Trichechus manatus</i>	AY011324	AY011388	JN632992	AHIN01009936
<i>Trichosurus vulpecula</i>	JN633526	JN633714	JN632978	JN633350
<i>Tupaia belangeri</i>	AAPY01680043	ALAR01054491	Ensembl 65	FJ554888
<i>Tupaia minor</i>	AY011348	AY011411	EU142158	AY011475
<i>Tursiops truncatus</i>	AY011360	AY011424	ABRN02497341	AY011487
<i>Urogale everetti</i>	AF535038	AF535042	EU142159	FJ554908

Name	APP	ATP7A	BCHE	BDNF
<i>Ursus_americanus</i>	genome	genome	genome	genome
<i>Ursus_arctos</i>	AY011373	AY011437	genome	AY011500 gene
<i>Ursus_maritimus</i>	Scaffold 11	Scaffold 211	Scaffold 154	Scaffold 46
<i>Vicugna_pacos</i>	ABRR01160158	Ensembl 65	Ensembl 65	Ensembl 65
<i>Vombatus_ursinus</i>	JN633531	JN633720	KC113262	JN633356
<i>Allenopithecus_nigroviridis</i>	HM764554	XXXXXX	HM764088	HM763765
<i>Alouatta_sara</i>	HM764644	XXXXXX	HM764103	HM763843
<i>Anolis_carolinensis</i>	XXXXXX	AAWZ02027535	Ensembl 66	Ensembl 66
<i>Cacajao_calvus</i>	HM764655	XXXXXX	HM764110	HM763852
<i>Callimico_goeldii</i>	HM764632	AY011417	HM764218	AY011480 gene
<i>Cercocebus_chrysogaster</i>	HM764555	XXXXXX	HM764084	HM763766
<i>Cercopithecus_albogularis</i>	HM764558	XXXXXX	HM764149	HM763769
<i>Cercopithecus_diana</i>	HM764561	FJ648396	HM764146	FJ648364 gene
<i>Cynopterus_brachyotis</i>	AY834460	AY834484	XXXXXX	AY834508 gene
<i>Erinaceus_concolor</i>	AY011319	AY011383	JN633031	AY011447 gene
<i>Erythrocebus_patas</i>	HM764573	XXXXXX	HM764092	XXXXXX
<i>Eulemur_mongoz</i>	HM764696	XXXXXX	HM764127	HM763882
<i>Galago_senegalensis</i>	HM764709	XXXXXX	HM764078	HM763892
<i>Gallus_gallus</i>	XXXXXX	AADN03003791	Ensembl 66	Ensembl 66
<i>Graphiurus_murinus</i>	JN633562	JN633754	JN633057	JN633386
<i>Haplemur_griseus</i>	HM764698	XXXXXX	HM764177	HM763884
<i>Hylobates_agilis</i>	HM764616	FJ648397	HM764175	FJ648366 gene
<i>Hylobates_muelleri</i>	HM764619	FJ648399	HM764173	XXXXXX
<i>Lagothrix_lagotricha</i>	XXXXXX	XXXXXX	HM764106	HM763833
<i>Leontopithecus_rosalia</i>	HM764640	XXXXXX	HM764086	HM763840
<i>Macaca_fuscata</i>	HM764579	XXXXXX	HM764140	HM763790
<i>Miopithecus_ogouensis</i>	HM764592	XXXXXX	HM764121	HM763799
<i>Moschus_moschiferus</i>	JN633543	JN633732	JN633001	JN633368
<i>Neovison_vison</i>	GU930926	GU930959	XXXXXX	GU931003
<i>Nomascus_concolor</i>	HM764620	AY011416	XXXXXX	AY011479
<i>Ochotona_hyperborea</i>	AY011346	AY011409	JN633030	AY011473
<i>Ornithorhynchus_anatinus</i>	XXXXXX	XM_001507216	XM_001505791	XM_001511930
<i>Panthera_onca</i>	AY011371	AY011435	XXXXXX	AY011498
<i>Pongo_pygmaeus</i>	HM764628	XXXXXX	HM764172	HM763831
<i>Propithecus_diadema</i>	HM764686	XXXXXX	HM764077	HM763875
<i>Pygathrix_nemaeus</i>	HM764601	XXXXXX	HM764159	HM763808
<i>Rousettus_lanosus</i>	AY011357	AY011421	XXXXXX	AY011484
<i>Saguinus_fuscicollis</i>	HM764664	XXXXXX	HM764074	HM763858
<i>Saimiri_oerstedii</i>	HM764670	XXXXXX	HM764205	HM763864
<i>Saimiri_sciureus</i>	HM764671	XXXXXX	HM764132	HM763865
<i>Semnopithecus_entellus</i>	HM764605	XXXXXX	HM764193	HM763811
<i>Sylvilagus_floridanus</i>	AY011345	AY011408	EU142151	AY011472
<i>Symphalangus_syndactylus</i>	HM764623	XXXXXX	HM764080	HM763826
<i>Tachyglossus_acleatus</i>	XXXXXX	JN633704	KC113261	JN614210
<i>Taeniopygia_guttata</i>	XXXXXX	ABQF01019089	Ensembl 66	Ensembl 66
<i>Thyroptera_tricolor</i>	AY834478	AY834502	JN633029	AY834526
<i>Trachypithecus_francoisi</i>	HM764610	XXXXXX	HM764083	HM763815
<i>Tupaia_glis</i>	HM764715	XXXXXX	HM764070	FJ554896
<i>Tamandua_tetractyla</i>	AY011317	AY011381	XXXXXX	AY011445
<i>Xenopus_tropicalis</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Abrocoma_bennettii</i>	JN632763	JN414189	JN414328	JN633193
<i>Acinonyx_jubatus</i>	LLWD01001117	LLWD01000294	LLWD01000334	LLWD01000293
<i>Acrobates_pygmaeus</i>	JN632719	FJ603119	JN414221	JN633139
<i>Aepyprymnus_rufescens</i>	JN632724	EU160439	JN414227	JN633144
<i>Ailuropoda_melanoleuca</i>	JN632752	JN414166	JN414284	Ensembl 65
<i>Ailurus_fulgens</i>	JN632743	JN414155	JN414273	JN633162
<i>Amblysomus_hottentotus</i>	JN632731	AF284027	JN414235	AY059693
<i>Anomalurus_beecrofti</i>	JN632765	JN414191	JN414330	JN633194
<i>Anoura_geoffroyi</i>	AY834543	FN641912	XXXXXX	XXXXXX
<i>Antilocapra_americana</i>	JN632738	JN414135	JN414250	JN633158
<i>Antrozous_pallidus</i>	AY834545	AF447495	XXXXXX	XXXXXX

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Aotus nancymae</i>	JYKP01035550	JYKP01220922	JYKP01110565	HM763265
<i>Apodontia rufa</i>	XXXXXX	AF332045	JN414331	AY303179
<i>Apodemus sylvaticus</i>	LIPJ01003270 deleted string of Ns	LIPJ01023125	LIPJ01008483	LIPJ01003163 deleted string of Ns
<i>Arctocephalus forsteri</i>	JN632749	JN414163	JN414281	JN633170
<i>Artibeus jamaicensis</i>	AY011540	JN414174	JN414301	AY011602
<i>Ateles fusciceps</i>	AY011535	JN414182	JN414318	AY011597
<i>Balaena mysticetus</i>	Scaffold 673	Scaffold 2789	Scaffold 1112	scaffold 1436
<i>Balaenoptera acutorostrata</i>	ATDI01149540	ATDI01115689	ATDI01064226	ATDI01084535
<i>Balaenoptera bonaerensis</i>	BAUQ01169454	BAUQ01226510	BAUQ01174725	BAUQ01086321
<i>Bison bison</i>	JPYT01072132	JPYT01782699	JPYT01754247	JPYT01747717
<i>Bos grunniens</i>	AGSK01120422	AGSK01177504	AGSK01037111	AGSK01021056
<i>Bos indicus</i>	AGFL01117037	AGFL01156997	AGFL01110169	XXXXXX
<i>Bos taurus</i>	Ensembl 66	Ensembl 65	Ensembl 66	AAFC05013675
<i>Bradypus tridactylus</i>	JN632737	AF284002	JN414247	JN633156
<i>Bubalus bubalis</i>	AWWX01572060	NW_005782793	AWWX01603396	AWWX01588770
<i>Caenolestes fuliginosus</i>	JN632714	AF355794	JN414216	JN633134
<i>Callithrix jacchus</i>	Ensembl 65	Ensembl 65	JN414319	HM763249
<i>Caluromys philander</i>	JN632710	AY243444	JN414212	JN633130
<i>Camelus bactrianus</i>	GAF01000309	CAOW010019316	CAOW010306340 (not including string of Ns)	GAES01008129
<i>Camelus dromedarius</i>	JWIN01035485	JWIN01032275	JDVD01005221	GADT01026217
<i>Camelus ferus</i>	AGVR0104949	AGVR01006136	AGVR01026502	AGVR01016526
<i>Canis familiaris</i>	AY011556	NM_001013416	Ensembl 66	AY011618
<i>Caperea marginata</i>	JN414119	JN414144	JN414261	JN414357
<i>Capra aegagrus</i>	CBYH010057513	CBYH010036947	CBYH010059847	CBYH010044970
<i>Capra hircus</i>	AJPT01133350	AJPT01179074	AJPT01125787	GANZ01010966
<i>Capreolus capreolus</i>	CCMK010138556	CCMK010196160	CCMK010130172	CCMK010100784
<i>Capromys pilorides</i>	XXXXXX	JN414192	JN414333	FM162140
<i>Castor canadensis</i>	AY011517	AF540622	JN414335	AY303180
<i>Cavia aperea</i>	AVPZ01000911	AVPZ01000489	AVPZ01000667	AVPZ01000444
<i>Cavia porcellus</i>	AAKN02049680	AAKN02042423	Ensembl 64	Trace
<i>Cebus albifrons</i>	JN632759	JN414184	JN414320	JN633189
<i>Ceratotherium simum</i>	AY011551	NW_004454205	JN414314	AY011613
<i>Cercartetus nanus</i>	JN632720	EU160440	JN414222	JN633140
<i>Cercocebus atys</i>	JZLG01067809	JZLG01058674	JZLG01009084	JZLG01011505
<i>Cervus taiouanus</i>	JN632739	JN414137	JN414252	AY303181
<i>Cheirogaleus medius</i>	XXXXXX	XXXXXX	HM763755	HM763303
<i>Chinchilla lanigera</i>	AGCD01028551	AGCD01043709	JN414336	AY303182
<i>Chlorocebus sabaeus</i>	AQIB01160513	AQIB01145587	HM763649	HM763181
<i>Choloepus didactylus</i>	AY011504 BMI1	AF484229	XXXXXX	AY011560
<i>Choloepus hoffmanni</i>	ABVD01226713,	Ensembl 71 (also ABVD01360484 5' and ABVD01360485 3')	ABVD01235566	AY011559
<i>Chrysochloris asiatica</i>	AMDV01210784	JN414131	AMDV01345966	JN633151
<i>Colobus angolensis</i>	JYKR01162898	JYKR01183844	JYKR01081576	HM763182
<i>Condylura cristata</i>	AY011508	AJFV01045188	AJFV01029669	AY011566
<i>Cratogeomys castanops</i>	AY834555	JN414170	JN414288	JN633175
<i>Cricetulus griseus</i>	JN632770	JN414200	JN414345	JN633204
<i>Crocota crocata</i>	AY011521 gene	PreEnsembl 65	APMK01200021	AY011581
<i>Ctenodactylus gundi</i>	JN632745	JN414158	JN414276	JN633165
<i>Ctenomys boliviensis</i>	JN632767	AF540624	JN414338	JN633199
<i>Cuniculus taczanowskii</i>	JN632768	JN414196	JN414339	JN633200
<i>Cynopithecus proboscideus</i>	JN632764	JN414190	JN414329	AY011590
<i>Cyclopes didactylus</i>	XXXXXX	AF484231	JN414249	JN633157
<i>Cynocephalus volans</i>	AF535052	DQ354453	JN414306	JN633186
<i>Cynopterus sphinx</i>	XXXXXX	AF203750	XXXXXX	GAOV01103786
<i>Dasyprocta punctata</i>	JN632769	JN414197	JN414340	JN633201
<i>Dasyypus novemcinctus</i>	AAGV03251214	AF283999	AAGV03254727	AAGV03065929
<i>Dasyurus albopunctatus</i>	JN632729	AY243452	JN414232	JN633149
<i>Daubentonia madagascariensis</i>	JN632760	JN414186	JN414322	JN633190
<i>Delphinapterus leucas</i>	JN414124	JN414149	JN414266	JN414362
<i>Desmodus rotundus</i>	AY834542	AF447503	XXXXXX	XXXXXX
<i>Didelphis virginiana</i>	AY011502	AF497261	JN414211	AY011558
<i>Dinomys branickii</i>	AY011527	DQ354450	JN414341	FM162137

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Dipodomys_heermanni</i>	EF104990	JN414201	JN414346	AY011584
<i>Dipodomys_ordii</i>	ABRO02021788	ABRO02063122	ABRO02053325	Ensembl 65
<i>Dromiciops_gliroides</i>	JN632712	AY243446	JN414214	JN633132
<i>Dugong_dugon</i>	JN632735	AF284019	JN414242	JN633154
<i>Echinops_telfairi</i>	AY011510	AF284025	AAIY02243879	AAIY01270889
<i>Echymipera_kalubu</i>	N632718	AF355796	JN414220	JN633138
<i>Eidolon_helvum</i>	AWHC01020955	AWHC01124120	AWHC01232115	AWHC01178435
<i>Elephantulus_edwardii</i>	AMGZ01097865	AMGZ01250249	AMGZ01010756	AMGZ01258982
<i>Elephantulus_rufescens</i>	AY059689	AF284028	JN414237	AY011573
<i>Elephas_maximus</i>	JN632736	AF284022	JN414244	JN633155
<i>Emballonura_atrata</i>	AY834538	AF447505	XXXXXX	XXXXXX
<i>Eptesicus_fuscus</i>	ALEH01079049	ALEH01082126	ALEH01135081	ALEH01001614
<i>Equus_asinus</i>	JREZ01000553	JREZ01000009	JREZ01000110	JREZ01000922
<i>Equus_caballus</i>	AY011550	AAWR02012618	AAWR02035369	AAWR02014702
<i>Equus_przewalskii</i>	ATBW01007532	ATBW01065891	ATBW01007591	ATBW01016940
<i>Erethizon_dorsatum</i>	EF104991	DQ354451	JN414344	AY011583
<i>Erinaceus_europaeus</i>	Ensembl 66	DQ354459	JN414309	Ensembl 75
<i>Eschrichtius_robustus</i>	JN414121	JN414146	JN414263	JN414359
<i>Eubalaena_australis</i>	JN414120	JN414145	JN414262	JN414358
<i>Eulemur_flavifrons</i>	LGHW01002881	LGHW01001347	LGHW01006641	HM763313
<i>Eulemur_macaco</i>	LGHX01002851	LGHX01001335	LGHX01006533	HM763312
<i>Eumops_auripendulus</i>	AY834554	AY834652	XXXXXX	XXXXXX
<i>Euphractus_sexinctus</i>	XXXXXX	AF484224	XXXXXX	AY011561
<i>Felis_catus</i>	AY011553	AF284018	NM_001009858	AY011615
<i>Fossa_fossana</i>	JN632744	JN414156	JN414274	JN633163
<i>Fukomys_damarensis</i>	AYUG01084307	AYUG01128849	AYUG01092000	AYUG01109009
<i>Furipterus_horrens</i>	AY834552	JN414171	JN414290	XXXXXX
<i>Galeopterus_variegatus</i>	AY011531	AF019081	JN414307	AY011593
<i>Genetta_genetta</i>	JN632753	JN414167	JN414285	JN633174
<i>Glironia_yenusta</i>	JN632711	JN414130	JN414213	JN633131
<i>Gorilla_gorilla</i>	Ensembl 65	AF019076	Ensembl 66	HM763235
<i>Heterocephalus_glaber</i>	AY011523	AF540630	AHKG01054575	FM162134
<i>Heterohyrax_brucei</i>	JN632734	JN414133	JN414240	JN633153
<i>Hippopotamus_amphibius</i>	AY011546	AF284015	XXXXXX	AY011608
<i>Hipposideros_commersoni</i>	AY834535	AF203752	JN414291	JN633177
<i>Homo_sapiens</i>	AY011539	Ensembl 65	Ensembl 64	KF042592
<i>Hoplomys_gymnurus</i>	XXXXXX	JN414199	JN414343	JN633203
<i>Hydrochoeris_hydrochaeris</i>	AY011525	JN414202	JN414347	FM162142
<i>Hydrodamalis_gigas</i>	consensus	consensus	consensus	consensus
<i>Hylobates_lar</i>	XXXXXX	KM017617	KM017652	HM763229
<i>Hypsiprymnodon_moschatus</i>	JN632725	FJ603120	JN414228	JN633145
<i>Hystrix_brachyura</i>	AY011522	AF540631	JN414348	AY011582
<i>Inia_geoffrensis</i>	JN414123	JN414148	JN414265	JN414361
<i>Isoodon_macrourus</i>	JN632716	EU160441	JN414218	JN633136
<i>Jaculus_jaculus</i>	AKZC01268279	JN414198	JN414342	JN633202
<i>Kogia_breviceps</i>	JN414126	JN414151	JN414268	JN414364
<i>Lama_glama</i>	AY059690	AF284012	JN414251	AY011609
<i>Laonastes_aenigmamus</i>	JN632773	JN414207	JN414354	JN633208
<i>Lemur_catta</i>	AY011533	DQ354455	JN414325	AY011595
<i>Leptonychotes_weddellii</i>	APMU01032944	APMU01146723	APMU01025971	APMU01133632
<i>Lipotes_vexillifer</i>	AUPI01055423	AUPI01137623	AUPI01109709	AUPI01149645
<i>Loxodonta_africana</i>	AY011513 BMI1	AF284021	AAGU03028350	AY011571
<i>Macaca_fascicularis</i>	CAEC01649055	AEHL01180717	AEHL01187126	HM763190
<i>Macaca_mulatta</i>	AY011536	Ensembl 65	Ensembl 64	AY011598
<i>Macaca_nemestrina</i>	JZLF01084246	JZLF01065365	JZLF01013812	HM763194
<i>Macroderma_gigas</i>	AY834536	AY834645	XXXXXX	XXXXXX
<i>Macropus_eugenii</i>	AY011503	FJ603179 and ABQO020900054	JN414223	Trace
<i>Macroscelides_proboscideus</i>	AY011514	XXXXXX	XXXXXX	AY011572
<i>Macrotis_lagotis</i>	JN632717	EU369359	JN414219	JN633137
<i>Mandrillus_leucophaeus</i>	JYKQ01139001	JYKQ01181776	JYKQ01175801	HM763202
<i>Manis_pentadactyla</i>	EF104992	JN414168	JN414286	AY011619
<i>Manis_tricuspis</i>	JN632754	JN414169	JN414287	XXXXXX
<i>Marmota_marmota</i>	CEEU01000042	CEEU01000043	CEEU01000014	CEEU01000003
<i>Megaderma_lyra</i>	AY059692	AF203749	JN414292	AY059695
<i>Megaptera_novaeangliae</i>	AY011544	JN414142	JN414259	AY011606

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Meles meles</i>	XXXXXX	JN414160	JN414278	JN633167
<i>Mephitis mephitis</i>	JN632746	JN414159	JN414277	JN633166
<i>Mesocricetus auratus</i>	APMT01161325	AY295013	APMT01165796	APMT01141571
<i>Mesoplodon bidens</i>	JN414122	JN414147	JN414264	JN414360
<i>Microcebus murinus</i>	EU142163	JN414185	JN414321	HM763304
<i>Microtus agrestis Northern</i>	WGS specimen from England LIQJ01007958	WGS specimen from England LIQJ01002227	WGS specimen from England LIQJ01013733 deleted internal strings of Ns	WGS specimen from England LIQJ01000676
<i>Microtus ochrogaster</i>	AHZW01123445	AHZW01154785	AHZW01170103	AHZW01006034
<i>Monodelphis domestica</i>	XM_001367795	AAFR03030033	Ensembl 56	AAFR03001906
<i>Mus musculus</i>	AY011520	Ensembl 65	Ensembl 64	AY011579
<i>Mustela putorius</i>	PrEnsembl 65	AGTQ01061753	AEYP01075860	PreEnsembl 65
<i>Myocastor coypus</i>	AY011526	JN414193	JN414334	AY011588
<i>Myodes glareolus</i>	LIP101003243	LIP101007503 deleted long string on Ns in middle of sequence	LIP101001085	LIP101003799
<i>Myotis brandtii</i>	ANKR01202898	ANKR01261371	ANKR01286171	ANKR01163594
<i>Myotis daubentonii</i>	AY834547	AF203746	XXXXXX	XXXXXX
<i>Myotis davidii</i>	ALWT01072590	ALWT01199117	ALWT01115078	ALWT01194919
<i>Myotis lucifugus</i>	AAPE02028320	Ensembl 65	Ensembl 66	Ensembl 65
<i>Myrmecobius fasciatus</i>	JN632730	FJ603122	JN414233	JN633150
<i>Myrmecophaga tridactyla</i>	AY011505	AF484232	JN414248	AY011564
<i>Mystacina tuberculata</i>	AY834551	AY245829	JN414296	JN633179
<i>Myzopoda aurita</i>	AY834548	AY834649	JN414297	XXXXXX
<i>Nandinia binotata</i>	JN632747	JN414161	JN414279	JN633168
<i>Nannospalax ehrenbergi</i>	JN632774	JN414208	JN414355	JN633209
<i>Nannospalax galili</i>	AXCS01059558	AXCS01204261	AXCS01227617	AXCS01060413
<i>Nasalis larvatus</i>	JMHX01297002 (5') and JMHX01070823 (3')	JMHX01319545	JMHX01319546	JMHX01319532
<i>Natalus stramineus</i>	AY834553	AF447498	JN414298	JN633180
<i>Noctilio albiventris</i>	AY834544	AF447497	JN414299	XXXXXX
<i>Nomascus leucogenys</i>	XM_003257703	Ensembl 65	ADVF01054538	HM763230
<i>Notoryctes typhlops</i>	JN632713	AY243447	JN414215	JN633133
<i>Nycteris thebaica</i>	AY011543	JN414173	JN414300	AY011605
<i>Nycticebus coucang</i>	JN632762	JN414188	JN414326	JN633192
<i>Nyctimene albiventer</i>	AY834533	AF447502	JN414302	JN633182
<i>Ochotona princeps</i>	Ensembl 66	Y057827	JN414308	Trace
<i>Octodon degus</i>	AJSA01205180	AJSA01097490	AJSA01075521	FM162141
<i>Octodontomys gliroides</i>	XXXXXX	JN414204	JN414350	JN633205
<i>Odobenus rosmarus</i>	JN632748	JN414162	JN414280	XM_004417497
<i>Okapia johnstoni</i>	AY011549	JN414138	JN414253	AY011611
<i>Orcinus orca Norway</i>	ANOL01059190	ANOL01065454	ANOL01064129	ANOL01009225
<i>Orycteropus afer</i>	AY011515	AF284030	ALYB01315963	ALYB01024016
<i>Oryctolagus cuniculus</i>	Ensembl 66	Ensembl 65	Ensembl 66	Trace
<i>Otolemur garnettii</i>	AF535053	AF019080	JN414323	AAQR03136552
<i>Ovis aries</i>	ACIV011213004	AMGL01018704	AMGL01014156	AMGL01107361
<i>Pan paniscus</i>	AJFE01073340	AJFE01044600	AJFE01094291	HM763236
<i>Pan troglodytes</i>	AF535055 BMI1 gene	AF019075	Ensembl 66	HM763238
<i>Panthera tigris</i>	ATCQ01051323	ATCQ01089030	ATCQ01147869	ATCQ01024962
<i>Pantholops hodgsonii</i>	Scaffold 522	Scaffold 227	Scaffold 855	Scaffold 886
<i>Papio anubis</i>	AHZZ01098308	AHZZ01189586	AHZZ01044417	HM763206
<i>Papio hamadryas</i>	PreEnsembl 66	PreEnsembl 66	PreEnsembl 66	HM763207
<i>Pecari tajacu</i>	JN632741	JN414140	JN414257	JN633159
<i>Pedetes capensis</i>	AY011519	AF332047	JN414351	AY011578
<i>Peromyscus maniculatus</i>	AYHN01041437	AYHN01117237	AYHN01084171	AYHN01025777
<i>Petaurus breviceps</i>	JN632721	EU160443	JN414224	JN633141
<i>Petromus typicus</i>	JN632771	AF540639	JN414352	JN633206
<i>Phascolarctos cinereus</i>	JN632723	AY243445	JN414226	JN633143
<i>Phoca vitulina</i>	JN632750	JN414164	JN414282	JN633171
<i>Phocoena phocoena</i>	JN414125	JN414150	JN414267	JN414363
<i>Physeter macrocephalus</i>	JN414127	AF284016	JN414269	JN414365
<i>Pithecia pithecia</i>	FJ648372 BMI1	XXXXXX	HM763754	HM763301
<i>Platanista minor</i>	JN414128	XXXXXX	JN414270	JN414366
<i>Podogymnura truei</i>	JN632757	JN414177	JN414310	JN633187

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Pongo_abelii</i>	Ensembl 65	XM_002827484	Ensembl 66	Ensembl 65
<i>Pontoporia_blainvillei</i>	JN414129	JN414153	JN414271	JN414367
<i>Prionodon_linsang</i>	XXXXXX	JN414154	JN414272	JN633161
<i>Procyon_capensis</i>	AY011512	AF284023	JN414241	AY011570
<i>Procyon_lotor</i>	JN632751	JN414165	JN414283	JN633172
<i>Propithecus_coquereli</i>	JZKE01006847	Propithecus_verreauxi in GenBank but Propithecus verreauxi coquereli from GRES	JZKE01073743	HM763310
<i>Propithecus_verreauxi</i>	XXXXXX	XXXXXX	HM763758	HM763309
<i>Pseudochirops_cupreus</i>	JN632726	FJ603123	JN414229	JN633146
<i>Pteronotus_parnellii</i>	AY834549	FN641904	JN414295	JN633178
<i>Pteropus_alecto</i>	ALWS01015730	ALWS01109820	ALWS01064548	ALWS01167645
<i>Pteropus_giganteus</i>	AY011541	JN414175	Ensembl 56	AY011603
<i>Pteropus_vampyrus</i>	Ensembl 64	Ensembl 65	Ensembl 66	Ensembl 64
<i>Ptilocercus_lowii</i>	EU142164	JN414180	JN414316	EU142167
<i>Rattus_norvegicus</i>	Ensembl 65	Ensembl 65	Ensembl 66	AY011580
<i>Rhinolophus_creaghi</i>	AY834534	AF447499	JN414303	JN633183
<i>Rhinolophus_ferrumequinum</i>	AWHA01024551	AWHA01243254	AWHA01030698	AWHA01126751
<i>Rhinopithecus_roxellana</i>	JABR01038241	JABR01066867	JABR01037048	JABR01021460
<i>Rhinopoma_hardwickii</i>	AY834537	AF447504	JN414304	JN633184
<i>Rhogeessa_tumida</i>	AY834546	AF447496	XXXXXX	XXXXXX
<i>Rhynchocyon_petersi</i>	JN632733	JN414132	JN414238	JN633152
<i>Rhyncholestes_raphanurus</i>	JN632715	AY243454	JN414217	JN633135
<i>Saccolaryx_bilineata</i>	JN632755	XXXXXX	JN414289	JN633176
<i>Saimiri_boliviensis</i>	Ensembl 66	PreEnsembl	HM763747	HM763291
<i>Sarcophilus_harrisii</i>	Ensembl 65	AFEY01251355	AFEY01372152	Ensembl 66
<i>Solenodon_paradoxus</i>	JN632758	AY530080	JN414311	JN633188
<i>Sorex_araneus</i>	AY011509	Ensembl 65	Ensembl 64	AY011567
<i>Spermophilus_tridecemlineatus</i>	PreEnsembl 66	AGTP01023534	PreEnsembl 66	AY303194
<i>Suricata_suricata</i>	XXXXXX	JN414157	JN414275	JN633164
<i>Sus_scrofa</i>	AY011548	AF284014	JN414256	AY011610
<i>Tadarida_brasiliensis</i>	AY059691	AF203747	JN414294	AY059694
<i>Talpa_altaica</i>	AY011507	KP717201	JN414313	AY011565
<i>Tamias_striatus</i>	AY011516 BMI1	JN414205	XXXXXX	AY011575
<i>Tapirus_indicus</i>	AY011552	JN414179	JN414315	AY011614
<i>Tarsipes_rostratus</i>	JN632727	FJ603124	JN414230	JN633147
<i>Tarsius_bancanus</i>	AY011534 BMI1	XXXXXX	XXXXXX	AY011596
<i>Tarsius_syrichta</i>	AF535054	DQ354456	JN414327	ABRT010238721 and ABRT010238720
<i>Thryonomys_swinderianus</i>	JN632772	JN414206	JN414353	JN633207
<i>Tragulus_napu</i>	JN632742	JN414141	JN414258	JN633160
<i>Trichechus_manatus</i>	AY011511	AF284020	AHIN01115019	AY011569
<i>Trichosurus_vulpecula</i>	JN632722	EF025765	JN414225	JN633142
<i>Tupaia_belangeri</i>	Ensembl 65	ALAR01093313	ALAR01107530	Ensembl 65
<i>Tupaia_minor</i>	AY011532	JN414181	JN414317	AY011594
<i>Tursiops_truncatus</i>	AY011545	Ensembl 65	JN414260	AY011607
<i>Urogale_everetti</i>	AF535051 BMI1 gene	XXXXXX	XXXXXX	EU142166
<i>Ursus_americanus</i>	genome	genome	genome	genome
<i>Ursus_arctos</i>	AY011557 BMI1	genome	genome	genome
<i>Ursus_maritimus</i>	Scaffold 88	Scaffold 222	Scaffold 40	Scaffold 131
<i>Vicugna_pacos</i>	Ensembl 65	ABRR02024361	XM_006208997	Ensembl 65
<i>Vombatus_ursinus</i>	JN632728	AF284031	JN414231	JN633148
<i>Allenopithecus_nigroviridis</i>	XXXXXX	XXXXXX	HM763634	HM763165
<i>Alouatta_sara</i>	XXXXXX	KM017628	HM763721	HM763260
<i>Anolis_carolinensis</i>	XXXXXX	XXXXXX	XXXXXX	Ensembl
<i>Cacajao_calvus</i>	XXXXXX	XXXXXX	HM763733	HM763273
<i>Callimico_goeldii</i>	AY011538 BMI1	XXXXXX	HM763708	HM763245
<i>Cercocebus_chrysogaster</i>	XXXXXX	XXXXXX	HM763636	HM763166
<i>Cercopithecus_albogularis</i>	XXXXXX	XXXXXX	HM763638	HM763169
<i>Cercopithecus_diana</i>	XXXXXX	XXXXXX	HM763641	HM763172
<i>Cynopterus_brachyotis</i>	AY834532	JN398258	XXXXXX	XXXXXX
<i>Erinaceus_concolor</i>	AY011506 BMI1	KF783073 and KF783058	XXXXXX	XXXXXX
<i>Erythrocebus_patas</i>	XXXXXX	XXXXXX	HM763653	HM763185
<i>Eulemur_mongoz</i>	XXXXXX	XXXXXX	HM763759	HM763314
<i>Galago_senegalensis</i>	XXXXXX	XXXXXX	HM763761	HM763326

Name	BMI1	BRCA1	BRCA2	CNR1
<i>Gallus_gallus</i>	XXXXXX	XXXXXX	XXXXXX	AADN03003306
<i>Graphiurus_murinus</i>	XXXXXX	JN414203	JN414349	AY303187
<i>Hapalemur_griseus</i>	XXXXXX	XXXXXX	XXXXXX	HM763316
<i>Hylobates_agilis</i>	FJ648370 BMI1	DQ354458	KM017646	HM763228
<i>Hylobates_muelleri</i>	FJ648371 BMI1	XXXXXX	HM763694	HM763231
<i>Lagothrix_lagotricha</i>	XXXXXX	XXXXXX	XXXXXX	HM763244
<i>Leontopithecus_rosalia</i>	XXXXXX	XXXXXX	HM763716	HM763255
<i>Macaca_fuscata</i>	XXXXXX	XXXXXX	HM763658	HM763191
<i>Miopithecus_ogouensis</i>	XXXXXX	XXXXXX	HM763670	HM763204
<i>Moschus_moschiferus</i>	JN632740	JN414139	JN414255	JN414369
<i>Neovison_vison</i>	XXXXXX	AB285367 and EF472329	XXXXXX	GQ844289
<i>Nomascus_concolor</i>	AY011537 BMI1	XXXXXX	XXXXXX	AY011599
<i>Ochotona_hyperborea</i>	XXXXXX	XXXXXX	XXXXXX	AY011592
<i>Ornithorhynchus_anatinus</i>	XXXXXX	XXXXXX	XXXXXX	Ensembl
<i>Panthera_onca</i>	XXXXXX	AB371332	XXXXXX	AY011617
<i>Pongo_pygmaeus</i>	XXXXXX	AF019077	KM017647	HM763240
<i>Propithecus_diadema</i>	XXXXXX	XXXXXX	HM763757	HM763307
<i>Pygathrix_nemaeus</i>	XXXXXX	XXXXXX	XXXXXX	HM763213
<i>Rousettus_lanosus</i>	AY011542 BMI1	JN398244	XXXXXX	AY011604
<i>Saguinus_fuscicollis</i>	XXXXXX	XXXXXX	HM763741	HM763283
<i>Saimiri_oerstedii</i>	XXXXXX	XXXXXX	HM763748	HM763292
<i>Saimiri_sciureus</i>	XXXXXX	KM017631	KM017651	HM763293
<i>Semnopithecus_entellus</i>	XXXXXX	XXXXXX	HM763682	HM763216
<i>Sylvilagus_floridanus</i>	AY011529 BMI1	XXXXXX	XXXXXX	AY011591
<i>Symphalangus_syndactylus</i>	XXXXXX	KM017626	KM017650	HM763234
<i>Tachyglossus_acleatus</i>	XXXXXX	XXXXXX	XXXXXX	JN633129
<i>Taeniopygia_guttata</i>	XXXXXX	XXXXXX	XXXXXX	Ensembl
<i>Thyroptera_tricolor</i>	AY834550	JN414176	JN414305	JN633185
<i>Trachypithecus_francoisi</i>	XXXXXX	KM017625	KM017649	HM763222
<i>Tupaia_glis</i>	FJ648375 BMI1	DQ354454	XXXXXX	FJ648388
<i>Tamandua_tetradactyla</i>	XXXXXX	AF484230	XXXXXX	AY011563
<i>Xenopus_tropicalis</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX

Name	CREM	DMP1	EDG1	ENAM
<i>Abrocoma_bennettii</i>	JN633501 gene	JN414492	XXXXXX	JN414616
<i>Acinonyx_jubatus</i>	LLWD01000634	LLWD01000026	LLWD01000429	LLWD01000793
<i>Acrobates_pygmaeus</i>	JN633459 gene	JN414389	XXXXXX	GU199281
<i>Aepyprymnus_rufescens</i>	JN633463 gene	JN414395	JN633224	JN414548
<i>Ailuropoda_melanoleuca</i>	JN633491 gene	JN414453	ACTA01041032 scaffold382_82	Ensembl 64
<i>Ailurus_fulgens</i>	JN633481 gene	JN414442	XXXXXX	JN414561
<i>Amblysomus_hottentotus</i>	AY059696	JN414403	AY059699	GQ354862
<i>Anomalurus_beecrofti</i>	XXXXXX	JN414494	JN633263	JN414618
<i>Anoura_geoffroyi</i>	AY839091	XXXXXX	AY834566	XXXXXX
<i>Antilocapra_americana</i>	JN633475 gene	JN414419	JN633237	JN414554
<i>Antrozous_pallidus</i>	AY839093	GU328210	AY834568	XXXXXX
<i>Aotus_nancymaeae</i>	HM763021	JYKP01188236	HM762431	JYKP01103456
<i>Aplodontia_rufa</i>	JN633502	JN414495	JN633264	JN414619
<i>Apodemus_sylvaticus</i>	LIPJ01000726	LIPJ01004268	LIPJ01005548	LIPJ01003925
<i>Arctocephalus_forsteri</i>	JN633488 gene	JN414450	JN633249	JN414569
<i>Artibeus_jamaicensis</i>	AY011665	JN414463	AY011726	JN414587
<i>Ateles_fusciceps</i>	HM763026	JN414482	AY011721	JN414605
<i>Balaena_mysticetus</i>	scaffold 787	scaffold 876	scaffold 2041	scaffold 1768
<i>Balaenoptera_acutorostrata</i>	ATDI01081447	ATDI01179436	ATDI01126950	ATDI01067699
<i>Balaenoptera_bonaerensis</i>	BAUQ01137455	BAUQ01162908	BAUQ01210539	BAUQ01083721
<i>Bison_bison</i>	JPYT01071824	JPYT01012619	JPYT01103405	JPYT01268710
<i>Bos_grunniens</i>	AGSK01156755	AGSK01191877	AGSK01154971	AGSK01085739
<i>Bos_indicus</i>	AGFL01116819	AGFL01061218	AGFL01026434	AGFL01059898
<i>Bos_taurus</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 65
<i>Bradypus_tridactylus</i>	JN633474 gene	JN414416	XXXXXX	GQ354873
<i>Bubalus_bubalis</i>	AWWX01571463	AWWX01576408	AWWX01613665	AWWX01577551
<i>Caenolestes_fuliginosus</i>	JN633454 gene	JN414384	JN633216	JN414539
<i>Callithrix_jacchus</i>	HM763043	JN414483	Ensembl 66	Ensembl 64

Name	CREM	DMP1	EDG1	ENAM
<i>Caluromys philander</i>	JN633450 gene	DQ083121	JN633212	JN414535
<i>Camelus bactrianus</i>	CAOW010249285	CAOW010515127 (without string of internal Ns)	GAEX01007206	CAOW010359352 (not including Ns in NCBI sequence)
<i>Camelus dromedarius</i>	JWIN01034202	GAEA01011035	GAEA01045738	JWIN01030039
<i>Camelus ferus</i>	AGVR01042078	AGVR01006876	AGVR01044026	AGVR01039102
<i>Canis familiaris</i>	AY011682	Ensembl 66	Ensembl 69	Ensembl 65
<i>Caperea marginata</i>	JN414370	JN414430	JN414522	GQ354843
<i>Capra aegagrus</i>	CBYH010021763	CBYH010013146	CBYH010064703	CBYH010035630
<i>Capra hircus</i>	AJPT01132959	AJPT01072478	AJPT01032744	AJPT01071081
<i>Capreolus capreolus</i>	CCMK010004752	CCMK010117087	CCMK010061642	CCMK010291901
<i>Capromys pilorides</i>	XXXXXX	JN414497	JN633265	JN414621
<i>Castor canadensis</i>	AY011640	JN414499	AY011703	JN414623
<i>Cavia aperea</i>	AVPZ01000333	AVPZ01000267	AVPZ01000223	AVPZ01000422
<i>Cavia porcellus</i>	Ensembl 65	AAKN02033400	Ensembl 66	AAKN02040237
<i>Cebus albifrons</i>	JN633497 gene	JN414484	JN633259	JN414607
<i>Ceratotherium simum</i>	AKZM01015302	JN414478	AY011736	AKZM01002861
<i>Cercartetus nanus</i>	JN633460 gene	JN414390	XXXXXX	JN414544
<i>Cercocebus atys</i>	JZLG01028994	JZLG01052265	JZLG01013708	XXXXXX
<i>Cervus taiouanus</i>	JN633476	JN414421	XXXXXX	JN414555
<i>Cheirogaleus medius</i>	HM763066	XXXXXX	HM762468	XXXXXX
<i>Chinchilla lanigera</i>	AGCD01049169	JN414501	AGCD01032903	AGCD01040538
<i>Chlorocebus sabaeus</i>	AQIB01146370	AQIB01016643	HM762351	AQIB01016288
<i>Choloepus didactylus</i>	AY011623	XXXXXX	XXXXXX	GQ354874
<i>Choloepus hoffmanni</i>	AY011622	JN414415	AY011687	ABVD01596146 (1-702) and GQ354875 (the rest)
<i>Chrysochloris asiatica</i>	AMDV01230934	JN414404	JN633231	AMDV01278750
<i>Colobus angolensis</i>	HM763070	JYKR01104582	HM762352	EU482100
<i>Condylura cristata</i>	AJFV01064633	AJFV01033468	AY011693	AJFV01034075
<i>Craseonycteris thonglongyai</i>	AY839103	XXXXXX	AY834578	JN414574
<i>Cratogeomys castanops</i>	JN633510	JN414510	XXXXXX	JN414634
<i>Cricetulus griseus</i>	AFTD01034363	PreEnsembl 66	JN633266	AFTD01052903
<i>Crocota crocuta</i>	JN633484 gene	JN414445	JN633245	JN414564
<i>Ctenodactylus gundi</i>	JN633505 gene	JN414503	JN633267	JN414627
<i>Ctenomys boliviensis</i>	JN633506 gene	JN414504	JN633268	JN414628
<i>Cuniculus taczanowskii</i>	AY011654	JN414493	AY011715	JN414617
<i>Cyclopes didactylus</i>	XXXXXX	JN414418	JN633236	GQ354878
<i>Cynocephalus volans</i>	HM763073	JN414469	AF535062	JN414593
<i>Cynopterus sphinx</i>	XXXXXX	GAOV01126483	GAOV01118209	XXXXXX
<i>Dasyprocta punctata</i>	JN633507	JN414505	JN633269	JN414629
<i>Dasyurus novemcinctus</i>	AAGV03225153	JN414414	AAGV03178488	AAGV03237580
<i>Dasyurus albopunctatus</i>	JN633468 cAMP	JN414400	JN633229	JN414551
<i>Daubentonia madagascariensis</i>	AGTM011627712	JN414486	AGTM011956387 and JN633260	AGTM011576235
<i>Delphinapterus leucas</i>	JN414375	JN414435	JN414527	GQ354848
<i>Desmodus rotundus</i>	AY839090	AY141888	AY834565	XXXXXX
<i>Didelphis yirginiana</i>	AY011620	DQ083127	AY011685	JN414534
<i>Dinomys branickii</i>	AY011653	JN414506	XXXXXX	JN414630
<i>Dipodomys heermanni</i>	AY011648	JN414511	AY011710	JN414635
<i>Dipodomys ordii</i>	ABRO02009851	Ensembl 66	ABRO02061725	ABRO02034329
<i>Dromiciops gliroides</i>	JN633452 gene	JN414382	JN633214	JN414537
<i>Dugong dugon</i>	JN633472 gene	JN414410	JN633234	GQ354868
<i>Echinops telfairi</i>	AAIY01579525	JN414402	AAIY01698052	GQ354864
<i>Echymipera kalubu</i>	JN633458 gene	JN414388	JN633220	JN414543
<i>Eidolon helvum</i>	AWHC01207493	AWHC01194226	AWHC01049879	AWHC01252446
<i>Elephantulus edwardii</i>	AMGZ01120850	AMGZ01081303	AMGZ0104679	AMGZ01205762
<i>Elephantulus rufescens</i>	AY011637	JN414405	AY011700	GQ354865
<i>Elephas maximus</i>	JN633473 gene	JN414412	JN633235	GQ354871
<i>Emballonura atrata</i>	AY839086	XXXXXX	AY834562	XXXXXX
<i>Eptesicus fuscus</i>	ALEH01122195	ALEH01047831	ALEH01070914	ALEH01131030
<i>Equus asinus</i>	JREZ01000287	JREZ01000199	JREZ01000310	JREZ01000259
<i>Equus caballus</i>	AAWR02028558	AAWR02004809	AY011735	Ensembl 65
<i>Equus przewalskii</i>	ATBW01069586	ATBW01061324	ATBW01018562	ATBW01040478
<i>Erethizon dorsatum</i>	AY011647	JN414509	AY011709	JN414633
<i>Erinaceus europaeus</i>	Ensembl 65	JN414472	Ensembl 66	AMDU01090809
<i>Eschrichtius robustus</i>	JN414372	JN414432	JN414524	GQ354844

Name	CREM	DMP1	EDG1	ENAM
<i>Eubalaena australis</i>	JN414371	JN414431	JN414523	GQ354841
<i>Eulemur flavifrons</i>	HM763079	LGHW01006277	HM762480	LGHW01002570
<i>Eulemur macaco</i>	HM763078	LGHX01006175	HM762479	LGHX01002547
<i>Eumops auripendulus</i>	AY839102	HQ671563	AY834577	XXXXXX
<i>Euphractus sexcinctus</i>	AY011624	XXXXXX	AY011688	GQ354882
<i>Felis catus</i>	ACBE01224633	PreEnsembl 66	AY011738	Ensembl 65 (long gap in middle is string of Ns)
<i>Fossa fossana</i>	JN633482 gene	JN414443	JN633243	JN414562
<i>Fukomys damarensis</i>	AYUG01158877	AYUG01141509	AYUG01120898	AYUG01140118
<i>Furipterus horrens</i>	AY839100	XXXXXX	AY834575	JN414576
<i>Galeopterus variegatus</i>	AY011656	JN414470	AY011718	JN414594
<i>Genetta genetta</i>	JN633492 gene	JN414454	JN633253	JN414573
<i>Glironia venusta</i>	JN633451 cAMP	DQ083128	JN633213	JN414536
<i>Gorilla gorilla</i>	HM763086	Ensembl 66	Ensembl 66	Ensembl 64
<i>Heterocephalus glaber</i>	AHKG01073053	AHKG01096004	AY011711	AHKG01099858
<i>Heterohyrax brucei</i>	JN633471 gene	JN414408	JN633233	GQ354869
<i>Hippopotamus amphibius</i>	AY011671	JN414423	AY011731	GQ354855
<i>Hipposideros commersoni</i>	AY059698	JN414457	AY834559	JN414577
<i>Homo sapiens</i>	Ensembl 65	Ensembl 66	AY011725	Ensembl 64
<i>Hoplomys gymnurus</i>	JN633509 gene	XXXXXX	XXXXXX	JN414632
<i>Hydrochoeris hydrochaeris</i>	AY011651	JN414512	AY011713	JN414636
<i>Hydrodamalis gigas</i>	consensus	Stella6852	consensus	consensus
<i>Hylobates lar</i>	HM763091	XXXXXX	HM762397	XXXXXX
<i>Hypsiprymnodon moschatus</i>	JN633464 gene	JN414396	JN633225	JN414549
<i>Hystrix brachyura</i>	AY011646	XXXXXX	JN633270	JN414637
<i>Inia geoffrensis</i>	JN414374	JN414434	JN414526	GQ354851
<i>Isodon macrourus</i>	JN633456 gene	JN414386	JN633218	JN414541
<i>Jaculus jaculus</i>	AKZC01264514	JN414507	AKZC01133266	JN414631 (1-3409) and AKZC01229378 (the rest)
<i>Kogia breviceps</i>	JN414377	JN414437	JN414529	GQ354846
<i>Lama glama</i>	AY011672	JN414420	JN633238	GQ354857
<i>Laonastes aenigmamus</i>	JN633513 gene	JN414519	JN633274	JN414644
<i>Lemur catta</i>	HM763096	JN414489	AY011720	JN414613
<i>Leptonychotes weddellii</i>	APMU01074046	APMU01004206	APMU01019599	APMU01028343
<i>Lipotes vexillifer</i>	AUPI01150867	AUPI01035141	AUPI01027100	AUPI01004948
<i>Loxodonta africana</i>	AAGU03083382	JN414413	AY011698	Ensembl 69
<i>Macaca fascicularis</i>	HM763103	AEHL01335382	AEHL01234708	AEHL01332569
<i>Macaca mulatta</i>	HM763106	JN414485	AY011722	Ensembl 65
<i>Macaca nemestrina</i>	HM763107	JZLF01083360	HM762364	JZLF01077137
<i>Macroderma gigas</i>	AY839084	XXXXXX	AY834560	XXXXXX
<i>Macropus eugenii</i>	ABQO021075319	JN414391	Ensembl 66	JN414545
<i>Macroscelides proboscideus</i>	AY011636	XXXXXX	AY011699	XXXXXX
<i>Macrotis lagotis</i>	JN633457 cAMP	JN414387	JN633219	JN414542
<i>Mandrillus leucophaeus</i>	HM763113	JYKQ01135676	HM762370	JYKQ01177846
<i>Manis pentadactyla</i>	AY011684	JN414455	AY011742	GQ354860
<i>Manis tricuspis</i>	JN633493 gene	JN414456	JN633254	GQ354861
<i>Marmota marmota</i>	CEEU01000013	CEEU01000060	CEEU01000085	CEEU01000104
<i>Megaderma lyra</i>	AY839083	JN414458	AWHB01444678	JN414578
<i>Megaptera novaeangliae</i>	AY011669	JN414428	AY011729	GQ354842
<i>Meles meles</i>	JN633486 gene	JN414447	JN633247	JN414566
<i>Mephitis mephitis</i>	JN633485 gene	JN414446	JN633246	JN414565
<i>Mesocricetus auratus</i>	APMT01179833	APMT01104279	APMT01109611	APMT01036109
<i>Mesoplodon bidens</i>	JN414373	JN414433	JN414525	GQ354853
<i>Microcebus murinus</i>	Ensembl 65	XXXXXX	EU142169	JN414609
<i>Microtus agrestis Northern</i>	WGS specimen from England LIQJ01004067	WGS specimen from England LIQJ01003835	WGS specimen from England LIQJ01001063	WGS specimen from England LIQJ01000061
<i>Microtus ochrogaster</i>	AHZW01095456	AHZW01095939	AHZW01030058	AHZW01097037
<i>Monodelphis domestica</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 66
<i>Mus musculus</i>	AAHY01136105	Ensembl 66	AY011706	Ensembl 64
<i>Mustela putorius</i>	PreEnsembl	PreEnsembl 66	AGTQ01042358	PreEnsembl 64
<i>Myocastor coypus</i>	AY011652	JN414498	AY011714	JN414622
<i>Myodes glareolus</i>	LIPi01011087	LIPi01008487	LIPi01007428	LIPi01005543
<i>Myotis brandtii</i>	ANKR01298158	ANKR01251879	ANKR01278775	ANKR01294613
<i>Myotis daubentonii</i>	AY839095	XXXXXX	AY834570	XXXXXX
<i>Myotis davidii</i>	ALWT01206275	ALWT01073095	ALWT01098246	ALWT01163176

Name	CREM	DMP1	EDG1	ENAM
<i>Myotis lucifugus</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 65
<i>Myrmecobius fasciatus</i>	JN633469 gene	JN414401	JN633230	JN414552
<i>Myrmecophaga tridactyla</i>	AY011627	JN414417	AY011691	GQ354876
<i>Mystacina tuberculata</i>	AY839099	JN414460	AY834574	JN414582
<i>Myzopoda aurita</i>	AY839096	AY141882	AY834571	JN414583
<i>Nandinia binotata</i>	XXXXXX	JN414448	XXXXXX	JN414567
<i>Nannospalax ehrenbergi</i>	JN633514 gene	JN414520	JN633275	JN414645
<i>Nannospalax galili</i>	AXCS01355984	AXCS01182060	AXCS01125007	AXCS01005380
<i>Nasalis larvatus</i>	JMHX01319537	JMHX01319533	JMHX01319529	JMHX01319533
<i>Natalus stramineus</i>	AY839101	JN414461	AY834576	JN414584
<i>Noctilio albiventris</i>	AY839092	AY141885	AY834567	JN414585
<i>Nomascus leucogenys</i>	HM763092	Ensembl 66	HM762398	Ensembl 64
<i>Notoryctes typhlops</i>	JN633453 gene	JN414383	JN633215	JN414538
<i>Nycteris thebaica</i>	AY011668	JN414462	XXXXXX	JN414586
<i>Nycticebus coucang</i>	JN633500 gene	JN414490	JN633262	JN414614
<i>Nyctimene albiventer</i>	AY839081	JN414465	AY834557	JN414589
<i>Ochotona princeps</i>	Ensembl 65	JN414471	Ensembl 66	ALIT01098127
<i>Octodon degus</i>	AJSA01173387	AJSA01060548	AJSA01125889	AJSA01221660
<i>Octodontomys gliroides</i>	JN633511 gene	JN414514	XXXXXX	JN414639
<i>Odobenus rosmarus</i>	JN633487 gene	JN414449	ANOP01018174	ANOP01002847
<i>Okapia johnstoni</i>	AY011675	JN414422	AY011734	JN414556
<i>Orcinus orca Norway</i>	ANOL01041906	ANOL01014635	ANOL01002842	ANOL01069129
<i>Orycteropus afer</i>	ALYB01117538	JN414407	AY011701	ALYB01124787
<i>Oryctolagus cuniculus</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 65
<i>Otolemur garnettii</i>	AAQR03043815	JN414487	AF535063	Ensembl 65
<i>Ovis aries</i>	AMGL01024152	AMGL01100089	AMGL0100368	AMGL01099452
<i>Pan paniscus</i>	HM763123	AJFE01035286	AJFE01025531	EU482101
<i>Pan troglodytes</i>	HM763124	Ensembl 66	Ensembl 66	Ensembl 64
<i>Panthera tigris</i>	ATCQ01117321	ATCQ01010553	ATCQ01121509	ATCQ01083739
<i>Pantholops hodgsonii</i>	Scaffold 425	Scaffold 904	Scaffold 64	Scaffold 888
<i>Papio anubis</i>	AHZZ01014696	AHZZ01070697	HM762374	EU482099
<i>Papio hamadryas</i>	HM763126	PreEnsembl 66	PreEnsembl 66	PreEnsembl 66
<i>Pecari tajacu</i>	XXXXXX	JN414426	JN633240	JN414558
<i>Pedetes capensis</i>	AY011642	JN414515	AY011705	JN414640
<i>Peromyscus maniculatus</i>	AYHN01112767	AYHN01026725	AYHN01037680	AYHN01109583
<i>Petaurus breviceps</i>	JN633461 gene	JN414392	JN633221	GU199289
<i>Petromus typicus</i>	JN633512	JN414516	JN633272	JN414641
<i>Phascolarctos cinereus</i>	XXXXXX	JN414394	JN633223	JN414547
<i>Phoca vitulina</i>	JN633489 gene	JN414451	JN633250	JN414570
<i>Phocoena phocoena</i>	JN414376	JN414436	JN414528	GQ354849
<i>Physeter macrocephalus</i>	JN414378	JN414438	JN414530	GQ354847
<i>Pithecia pithecia</i>	HM763130	XXXXXX	HM762466	XXXXXX
<i>Platanista minor</i>	JN414379	JN414439	JN414531	GQ354854
<i>Podogymnura truei</i>	JN633496 gene	JN414473	JN633256	JN414597
<i>Pongo abelii</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 64
<i>Pontoporia blainvillei</i>	JN414380	JN414440	JN414532	GQ354852
<i>Prionodon linsang</i>	JN633480 gene	JN414441	JN633242	JN414560
<i>Procavia capensis</i>	ABRQ01140422	JN414409	AY011697	ABRQ01122118
<i>Procyon lotor</i>	JN633490 gene	JN414452	JN633251	JN414571
<i>Propithecus coquereli</i>	HM763139	Propithecus_verreauxi in GenBank, but P. v. coquereli based on CRES papers. JN414488	HM762477	JZKE01245444
<i>Propithecus verreauxi</i>	HM763138	XXXXXX	HM762476	XXXXXX
<i>Pseudochirops cupreus</i>	JN633465 gene	JN414397	JN633226	JN414550
<i>Pteronotus parnellii</i>	AY839097	AY141881	AWGZ01066017	JN414581
<i>Pteropus alecto</i>	ALWS01040371	ALWS01037027	ALWS01087158	ALWS01074157
<i>Pteropus giganteus</i>	AY011666	JN414464	AY011727	JN414588
<i>Pteropus vampyrus</i>	Ensembl 65	Ensembl 66	ABRP01081778	Ensembl 65
<i>Ptilocercus lowii</i>	EU142168	JN414480	JN633258	JN414603
<i>Rattus norvegicus</i>	AABR06092015	Ensembl 66	Ensembl 66	Ensembl 66
<i>Rhinolophus creaghi</i>	AY839082	JN414466	AY834558	JN414590
<i>Rhinolophus ferrumequinum</i>	AWHA01055806	AWHA01290380	AWHA01140931	AWHA01228077
<i>Rhinopithecus roxellana</i>	JABR01091119	JABR01080445	JABR01016079	JABR01008159
<i>Rhinopoma hardwickii</i>	AY839085	JN414467	XXXXXX	JN414591
<i>Rhogeessa tumida</i>	AY839094	GU328275	AY834569	XXXXXX

Name	CREM	DMP1	EDG1	ENAM
<i>Rhynchocyon petersi</i>	JN633470 gene	JN414406	JN633232	GQ354866
<i>Rhyncholestes raphanurus</i>	JN633455 gene	JN414385	JN633217	JN414540
<i>Saccopteryx bilineata</i>	JN633494 gene	AY141878	XXXXX	JN414575
<i>Saimiri boliviensis</i>	PreEnsembl	PreEnsembl 66	Preensembl 66	AGCE01074317
<i>Sarcophilus harrisii</i>	Ensembl 65	Ensembl 66	Ensembl 66	Ensembl 64
<i>Solenodon paradoxus</i>	AY530072	JN414474	AY530073	JN414598
<i>Sorex araneus</i>	AALT02045803	JN414475	AY011694	AALT02152376
<i>Spermophilus tridecemlineatus</i>	PreEnsembl	PreEnsembl 66	AGTP01102637	Ensembl 65
<i>Suricata suricatta</i>	JN633483 gene	JN414444	JN633244	JN414563
<i>Sus scrofa</i>	AY011674	JN414425	AY011733	GQ354856
<i>Tadarida brasiliensis</i>	AY059697	AY141879	AY059700	JN414580
<i>Talpa altaica</i>	AY011629	JN414476	JN633257	JN414600
<i>Tamias striatus</i>	AY011639	JN414517	AY011702	JN414642
<i>Tapirus indicus</i>	AY011678	JN414479	AY011737	JN414602
<i>Tarsipes rostratus</i>	JN633466 gene	JN414398	JN633227	GU199302
<i>Tarsius bancanus</i>	HM763154	XXXXX	EF104982	XXXXX
<i>Tarsius syrichta</i>	ABRT010327389	JN414491	ABRT02440832	Ensembl 65
<i>Thryonomys swinderianus</i>	XXXXX	JN414518	JN633273	JN414643
<i>Tragulus napu</i>	JN633479 gene	JN414427	JN633241	JN414559
<i>Trichechus manatus</i>	AHIN01128106	JN414411	AY011696	AHIN01095756
<i>Trichosurus vulpecula</i>	JN633462 gene	JN414393	JN633222	JN414546
<i>Tupaia belangeri</i>	AAPY01131061	Ensembl 66:	ALAR01174834	Ensembl 65
<i>Tupaia minor</i>	HM763163	JN414481	AY011719	JN414604
<i>Tursiops truncatus</i>	ABRN02544083	JN414429	AY011730	GQ354850
<i>Urogale everetti</i>	FJ55493	XXXXX	AF535061	XXXXX
<i>Ursus americanus</i>	genome	genome	genome	genome
<i>Ursus arctos</i>	AY011683	genome	genome	genome
<i>Ursus maritimus</i>	Scaffold 82	Scaffold 188	Scaffold 70	Scaffold 65
<i>Vicugna pacos</i>	ABRR02153692	Ensembl 66	ABRR02009192	ABRR01057903
<i>Vombatus ursinus</i>	JN633467 gene	JN414399	JN633228	GQ354839
<i>Allenopithecus nigroviridis</i>	HM763014	XXXXX	HM762335	XXXXX
<i>Alouatta sara</i>	HM763018	XXXXX	HM762426	XXXXX
<i>Anolis carolinensis</i>	XXXXX	XXXXX	Ensembl 66	XXXXX
<i>Cacajao calvus</i>	XXXXX	XXXXX	HM762439	XXXXX
<i>Callimico goeldii</i>	HM763039	XXXXX	AY011724	XXXXX
<i>Cercocebus chrysogaster</i>	HM763054	XXXXX	HM762336	XXXXX
<i>Cercopithecus albogularis</i>	HM763056	XXXXX	HM762339	XXXXX
<i>Cercopithecus diana</i>	HM763059	XXXXX	HM762342	XXXXX
<i>Cynopterus brachyotis</i>	AY839080	XXXXX	AY834556	XXXXX
<i>Erinaceus concolor</i>	AY011628	XXXXX	AY011692	XXXXX
<i>Erythrocebus patas</i>	HM763075	XXXXX	HM762355	XXXXX
<i>Eulemur mongoz</i>	HM763080	XXXXX	HM762481	XXXXX
<i>Galago senegalensis</i>	HM763084	XXXXX	HM762493	XXXXX
<i>Gallus gallus</i>	XXXXX	XXXXX	Ensembl 66	XXXXX
<i>Graphiurus murinus</i>	XXXXX	JN414513	JN633271	JN414638
<i>Haplemur griseus</i>	HM763087	XXXXX	HM762483	XXXXX
<i>Hylobates agilis</i>	HM763090	XXXXX	HM762396	XXXXX
<i>Hylobates muelleri</i>	HM763093	XXXXX	HM762399	XXXXX
<i>Lagothrix lagotricha</i>	HM763095	XXXXX	HM762412	EU482106
<i>Leontopithecus rosalia</i>	HM763098	XXXXX	HM762421	XXXXX
<i>Macaca fuscata</i>	HM763104	XXXXX	HM762361	XXXXX
<i>Miopithecus ogouensis</i>	HM763117	XXXXX	HM762372	XXXXX
<i>Moschus moschiferus</i>	JN633477 gene	XXXXX	JN414533	XXXXX
<i>Neovison vison</i>	XXXXX	XXXXX	XXXXX	XXXXX
<i>Nomascus concolor</i>	HM763119	XXXXX	AY011723	XXXXX
<i>Ochotona hyperborea</i>	AY011655	XXXXX	AY011717	XXXXX
<i>Ornithorhynchus anatinus</i>	AAPN01000359	XXXXX	Ensembl 66	XXXXX
<i>Panthera onca</i>	AY011681	XXXXX	AY011740	XXXXX
<i>Pongo pygmaeus</i>	HM763131	AY091976	HM762408	XXXXX
<i>Propithecus diadema</i>	HM763135	XXXXX	HM762473	XXXXX
<i>Pygathrix nemaus</i>	HM763141	XXXXX	HM762381	XXXXX
<i>Rousettus lanosus</i>	AY011667	XXXXX	AY011728	XXXXX
<i>Saguinus fuscicollis</i>	HM763144	XXXXX	HM762450	XXXXX
<i>Saimiri oerstedii</i>	HM763148	XXXXX	HM762459	XXXXX
<i>Saimiri sciureus</i>	HM763149	XXXXX	HM762460	XXXXX
<i>Semnopithecus entellus</i>	HM763151	XXXXX	HM762384	XXXXX

Name	CREM	DMP1	EDG1	ENAM
<i>Sylvilagus_floridanus</i>	JN633495 gene	XXXXXX	AY011716	XXXXXX
<i>Symphalangus_syndactylus</i>	HM763153	XXXXXX	HM762402	EU482104
<i>Tachyglossus_aculeatus</i>	XXXXXX	XXXXXX	JN633211	XXXXXX
<i>Taeniopygia_guttata</i>	XXXXXX	XXXXXX	Ensembl 66	XXXXXX
<i>Thyroptera_tricolor</i>	AY839098	AY141890	AY834573	JN414592
<i>Trachypithecus_francoisi</i>	HM763157	XXXXXX	HM762390	XXXXXX
<i>Tupaia_glis</i>	HM763162	XXXXXX	HM762499	XXXXXX
<i>Tamandua_tetradactyla</i>	AY011626	XXXXXX	AY011690	GQ354877
<i>Xenopus_tropicalis</i>	XXXXXX	XXXXXX	Ensembl 66	XXXXXX

Name	FBN1	GHR	IRBP	PLCB4
<i>Abrocoma_bennettii</i>	JN632841	FJ855213 strain H5613	JN414810	JN633111
<i>Acinonyx_jubatus</i>	GU931044	LLWD01000247	LLWD01000093	LLWD01000430
<i>Acrobates_pygmaeus</i>	JN632786	JN414667	FJ603126	JN633070
<i>Aepyprymnus_rufescens</i>	JN632791	JN414673	EU160448	XXXXXX
<i>Ailuropoda_melanoleuca</i>	GU931084	AF395535	Ensembl 65	Ensembl 70
<i>Ailurus_fulgens</i>	GU931080	JN414710	AY525045	XXXXXX
<i>Amblysomus_hottentotus</i>	XXXXXX	JN414680	XXXXXX	AY059706
<i>Anomalurus_becrofti</i>	JN632843	JN414755	JN414812	JN633112
<i>Anoura_geoffroyi</i>	XXXXXX	XXXXXX	XXXXXX	AY835951
<i>Antilocapra_americana</i>	JN632807	JN414688	JN414770	JN633087
<i>Antrozous_pallidus</i>	XXXXXX	XXXXXX	XXXXXX	AY835953
<i>Aotus_nancymaeae</i>	HM761929	JYKP01173418	JYKP01146951	HM759729
<i>Aplodontia_rufa</i>	JN632844	AF332030	AJ427238	JN633113
<i>Apodemus_sylvaticus</i>	LIPJ01003017	KM397258	LIPJ01010088	LIPJ01009250
<i>Arctocephalus_forsteri</i>	GU931076	JN414716	DQ205888	GU167492
<i>Artibeus_jamaicensis</i>	JN632828	JN414734	JN414794	AY011789
<i>Ateles_fusciceps</i>	EU142178	JN414745	JN414808	HM759843
<i>Balaena_mysticetus</i>	scaffold 1611	scaffold 359	scaffold 1658	scaffold 3427
<i>Balaenoptera_acutorostrata</i>	ATDI01030138	ATDI01025852	ATDI01026708	ATDI01004419
<i>Balaenoptera_bonaerensis</i>	BAUQ01172865	BAUQ01204439	BAUQ01003824	BAUQ01416273
<i>Bison_bison</i>	JPYT01767291	DQ062723	JPYT01042888	JPYT01268367
<i>Bos_grunniens</i>	AGSK01047172	DQ062721	AGSK01015481	AGSK01000662
<i>Bos_indicus</i>	AGFL01095111	DQ062700	AGFL01202575	AGFL01115697
<i>Bos_taurus</i>	Ensembl 66	X70041	Ensembl 65	Ensembl 66
<i>Bradypus_tridactylus</i>	JN632805	JN414686	BTU48708	JN633085
<i>Bubalus_bubalis</i>	AWWX01588498	EF207441	AWWX01615231	AWWX01574260
<i>Caenolestes_fuliginosus</i>	JN632781	JN414663	AF025381	JN633065
<i>Callithrix_jacchus</i>	Ensembl 66	JN414746	XM_002756138	HM759872
<i>Caluromys_philander</i>	JN632777	JN414659	AY233765 V823	JN633062
<i>Camelus_bactrianus</i>	CAOW010485641	CAOW010514524	JARL01027836	CAOW010219092
<i>Camelus_dromedarius</i>	JWIN01032145	JWIN01031792	JDVD01065352	JWIN01030888
<i>Camelus_ferus</i>	AGVR01047666	AGVR01049780	AGVR01052084	AGVR01035622
<i>Canis_familiaris</i>	Ensembl 66	NM_001003123	Ensembl 69	Ensembl 69
<i>Caperea_marginata</i>	JN414647	JN414698	JN414777	JN414827
<i>Capra_aegagrus</i>	CBYH010038877	CBYH010062073	CBYH010014477	CBYH010060790
<i>Capra_hircus</i>	AJPT01108908	AJPT01183945	AJPT01227388	AJPT01131552
<i>Capreolus_capreolus</i>	CCMK010078275	CCMK010166842	XXXXXX	CCMK010039675
<i>Capromys_pilorides</i>	JN632846	AF433949	JN414813	JN633114
<i>Castor_canadensis</i>	EU142171	AF332026	AJ427239	AY011763
<i>Cavia_aperea</i>	XXXXXX	AF433930	AVPZ01000589	AVPZ01000889
<i>Cavia_porcellus</i>	Ensembl 66	NM_001172706	Ensembl 65	Ensembl 66
<i>Cebus_albifrons</i>	JN632837	JN414747	JN414809	JN633107
<i>Ceratotherium_simum</i>	JN632835	JN414743	JN414804	AY011800
<i>Cercartetus_nanus</i>	JN632787	JN414668	EU160449	JN633071
<i>Cercocebus_atys</i>	JZLG01009804	JZLG01066710	JZLG01016764	JZLG01064076
<i>Cervus_taiouanus</i>	JN632809	JN414689	JN414771	JN633088
<i>Cheirogaleus_medius</i>	HM761964	HM761354	EU342269	HM759867
<i>Chinchilla_lanigera</i>	JN632848	AF332036	AJ427246	JN633115
<i>Chlorocebus_sabaeus</i>	HM761851	AQIB01112046	AQIB01149139	AQIB01150998
<i>Choloepus_didactylus</i>	XXXXXX	XXXXXX	FR871851	AY011746
<i>Choloepus_hoffmanni</i>	KC113267	JN414685	JN414767	AY011745
<i>Chrysochloris_asiatica</i>	JN632798	JN414681	XXXXXX	JN633081

Name	FBN1	GHR	IRBP	PLCB4
<i>Colobus_angolensis</i>	HM761852	JX856189	JX856189	HM759791
<i>Condylura_cristata</i>	AJFV01055694	AJFV01021794	XXXXXX	AY011753
<i>Craseonycteris_thonglongyai</i>	JN632818	JN414722	JN414786	KP175938
<i>Cratogeomys_castanops</i>	JN632857	AF332027	EU551778	JN633121
<i>Cricetulus_griseus</i>	JN632849	JN414756	Pre-Ensembl 64	PreEnsembl 67
<i>Crocota_crocota</i>	GU931049	JN414713	AY170087	JN633094
<i>Ctenodactylus_gundi</i>	JN632850	XXXXXX	JN414815	JN633116
<i>Ctenomys_boliviensis</i>	JN632851	JN414757	JN414816	JN633117
<i>Cuniculus_taczanowskii</i>	JN632842	AF433929	JN414811	AY011777
<i>Cyclopes_didactylus</i>	JN632806	JN414687	JN414769	JN633086
<i>Cynocephalus_volans</i>	EU213053	AF332019	JN414800	HM759799
<i>Cynopterus_sphinx</i>	XXXXXX	GAOV01083201	CSU48709	XXXXXX
<i>Dasyprocta_punctata</i>	JN632852	AF433943	JN414817	JN633118
<i>Dasyurus_novemcinctus</i>	AAGV03016414	Ensembl 65	XXXXXX	AAGV03171491
<i>Dasyurus_albopunctatus</i>	JN632796	JN414678	AY532681	JN633079
<i>Daubentonia_madagascariensis</i>	JN632838	JN414749	AJ313468	AGTM011640438
<i>Delphinapterus_leucas</i>	JN414652	JN414703	AF231341	JN414832
<i>Desmodus_rotundus</i>	XXXXXX	KM190094	XXXXXX	AY835950
<i>Didelphis_virginiana</i>	JN632776	XXXXXX	Z11814	AY011743
<i>Dinomys_branickii</i>	JN632853	AF332038	AM050862	AY011776
<i>Dipodomys_heermanni</i>	JN632858	JN414759	JN414820	AY011771
<i>Dipodomys_ordini</i>	Ensembl 66	Ensembl 65	Ensembl 65	ABRO02013077
<i>Dromiciops_gliroides</i>	JN632779	JN414661	AF025384	EF104981
<i>Dugong_dugon</i>	JN632802	JN414684	DDU48583	MD118
<i>Echinops_telfairi</i>	AAIY02177132	AF392889	XXXXXX	AY011755
<i>Echymipera_kalubu</i>	JN632785	XXXXXX	AF025383	JN633069
<i>Eidolon_helvum</i>	AWHC01046462	AWHC01010176	AWHC01202409	AWHC01026946
<i>Elephantulus_edwardii</i>	AMGZ01190676	AMGZ01126162	AY310899	AMGZ01175319
<i>Elephantulus_rufescens</i>	JX869931	AF392876	ERU48584	XXXXXX
<i>Elephas_maximus</i>	JN632804	AF332013	AY243443	JN633084
<i>Emballonura_atrata</i>	XXXXXX	JN414723	XXXXXX	AY835946
<i>Eptesicus_fuscus</i>	ALEH01043269	ALEH01118438	ALEH01080398	ALEH01033989
<i>Equus_asinus</i>	JREZ01000114	JREZ01000037	JREZ01000188	JREZ01000071
<i>Equus_caballus</i>	Ensembl 66	AF392878	Ensembl 65	AAWR02026310
<i>Equus_przewalskii</i>	ATBW01047071	ATBW01029035	ATBW01039778	ATBW01045679
<i>Erethizon_dorsatum</i>	JN632856	FJ855211 strain H5828	AJ427249	AY011770
<i>Erinaceus_europaeus</i>	Ensembl 66	AF392882	Ensembl 65	Ensembl 66
<i>Eschrichtius_robustus</i>	JN414649	JN414700	ERU50649	JN414829
<i>Eubalaena_australis</i>	JN414648	JN414699	JN414778	JN414828
<i>Eulemur_flavifrons</i>	HM761976	LGHW01002193	LGHW01004070	LGHW01001671
<i>Eulemur_macaco</i>	HM761975	JX856191	LGHX01004022	LGHX01001656
<i>Eumops_auripendulus</i>	XXXXXX	XXXXXX	XXXXXX	AY835962
<i>Euphractus_sexinctus</i>	XXXXXX	XXXXXX	XXXXXX	AY011747
<i>Felis_catus</i>	GU931043	EU448991	Ensembl 65	AANG02087572
<i>Fossa_fossana</i>	GU931058	JN414711	AY170067	JN633092
<i>Fukomys_damarensis</i>	AYUG01107642	AYUG01110355	AYUG01089468	AYUG01118254
<i>Furipterus_horrens</i>	JN632820	XXXXXX	XXXXXX	AY835960
<i>Galeopterus_variegatus</i>	EU142175	AF540625	Z11807	HM759751
<i>Genetta_genetta</i>	GU931061	JN414720	JN414783	JN633102
<i>Glironia_venusta</i>	JN632778	JN414660	AF257688	JN633063
<i>Gorilla_gorilla</i>	Ensembl 66	Ensembl 65	Ensembl 65	Ensembl 67
<i>Heterocephalus_glaber</i>	AFSB01237323	AF332034	AM407925	AHKG01019105
<i>Heterohyrax_brucei</i>	JN632801	JN414683	JN414766	JN633083
<i>Hippopotamus_amphibius</i>	JN632811	JN414691	AF108837	AY011794
<i>Hipposideros_commerioni</i>	JN632821	JN414725	JN414788	AY835943
<i>Homo_sapiens</i>	Ensembl 66	NM_001242461	Ensembl 66	Ensembl 67
<i>Hoplomys_gymnurus</i>	JN632855	AF520661	JN414818	JN633120
<i>Hydrochoeris_hydrochaeris</i>	JN632859	AF433948	JN414821	AY011774
<i>Hydrodamalis_gigas</i>	consensus	consensus	consensus	
<i>Hylobates_lar</i>	HM761898	HM761450	AJ313478	HM759758
<i>Hypsiprymnodon_moschatus</i>	JN632792	JN414674	FJ603129	JN633075
<i>Hystrix_brachyura</i>	JN632860	JN414760	JN414822	AY011769
<i>Inia_geoffrensis</i>	JN414651	JN414702	AF304080	JN414831
<i>Isodon_macrourus</i>	JN632783	JN414665 from Australia	EU160450	JN633067
<i>Jaculus_jaculus</i>	JN632854	KM397231	AM407907	AKZC01173276
<i>Kogia_breviceps</i>	JN414654	JN414705	JN414780	JN414834

Name	FBN1	GHR	IRBP	PLCB4
<i>Lama glama</i>	JN632808	EU448989	AF108836	AY011795
<i>Laonastes aenigmamus</i>	JN632865	AM407901	AM407903	JN633126
<i>Lemur catta</i>	EU142176	JN414751	AJ313470	HM759781
<i>Leptonychotes weddellii</i>	APMU01077584	APMU01142293	APMU01138879	APMU01054404
<i>Lipotes vexillifer</i>	AUPI01121670	AUPI01014709	AUPI01052371	AUPI01044211
<i>Loxodonta africana</i>	AAGU03079604	AF332012	Ensembl 65	AAGU03041141
<i>Macaca fascicularis</i>	HM761860	CAEC01535400	AEHL01411592	HM759810
<i>Macaca mulatta</i>	EU142179	NM_001042667	Ensembl 56	Ensembl 67
<i>Macaca nemestrina</i>	HM761864	JZLF01016156	JZLF01014962	HM759846
<i>Macroderma gigas</i>	XXXXXX	XXXXXX	XXXXXX	AY835944
<i>Macropus eugenii</i>	Ensembl 66	JN414669	FJ603206	Ensembl 67
<i>Macroscelides proboscideus</i>	XXXXXX	AF332014	KF742669	XXXXXX
<i>Macrotis lagotis</i>	JN632784	JN414666	EU369364	JN633068
<i>Mandrillus leucophaeus</i>	HM761872	JX856200	JX856200	HM759803
<i>Manis pentadactyla</i>	GU931086	EU448992	JN414784	AY011807
<i>Manis tricuspis</i>	JN632817	JN414721	JN414785	JN633103
<i>Marmota marmota</i>	CEEU01000008	CEEU01000028	CEEU01000058	CEEU01000001
<i>Megaderma lyra</i>	JN632822	JN414726	AY057833	AY059708
<i>Megaptera novaeangliae</i>	JN632815	JN414696	AF304086	AY011792
<i>Meles meles</i>	GU931072	JN414715	AB082979	EF987926
<i>Mephitis mephitis</i>	GU931066	JN414714	AB109331	JN633095
<i>Mesocricetus auratus</i>	APMT01040071	APMT01189701	APMT01115854	APMT01040792
<i>Mesoplodon bidens</i>	JN414650	JN414701	JN414779	JN414830
<i>Microcebus murinus</i>	Ensembl 66	JN414748	AJ313469	Ensembl 67
<i>Microtus agrestis Northern</i>	WGS specimen from England LIQJ01000395	WGS specimen from England LIQJ01001641	LIQJ01001607	WGS specimen from England LIQJ01001059
<i>Microtus ochrogaster</i>	AHZW01122347	AHZW01161163	AHZW01065200	AHZW01071206
<i>Monodelphis domestica</i>	Ensembl 66	Ensembl 73	KM071083	Ensembl 67
<i>Mus musculus</i>	CAAA01211762	Ensembl 65	Ensembl 65	Ensembl 66
<i>Mustela putorius</i>	PreEnsembl 66	PreEnsembl 65	Pre-Ensembl 65	AEYP01029232
<i>Myocastor coypus</i>	JN632847	AF520662	JN414814	AY011775
<i>Myodes glareolus</i>	LIPI01005299	AM392384	LIPI01004555	LIPI01006998
<i>Myotis brandtii</i>	ANKR01192274	ANKR01263010	ANKR01178541	ANKR01257193
<i>Myotis daubentonii</i>	XXXXXX	XXXXXX	XXXXXX	AY835955
<i>Myotis davidii</i>	ALWT01091714	ALWT01205624	ALWT01044936	ALWT01053620
<i>Myotis lucifugus</i>	Ensembl 66	Ensembl 65	AAPE02051274 (5' fragment) and AAPE02051273 (3' fragment)	Ensembl 67
<i>Myrmecobius fasciatus</i>	JN632797	JN414679 from Australia	FJ603125	JN633080
<i>Myrmecophaga tridactyla</i>	KC113268	AF392875	FR871852	AY011750
<i>Mystacina tuberculata</i>	XXXXXX	JN414730	JN414791	AY835959
<i>Myzopoda aurita</i>	XXXXXX	JN414731	JN414792	AY835956
<i>Nandinia binotata</i>	GU931063	AY928732	AY170083	JN633097
<i>Nannospalax ehrenbergi</i>	JN632866	AY294898	JN414825	JN633127
<i>Nannospalax galili</i>	AXCS01060012	AXCS01122144	AXCS01076770	AXCS01356044
<i>Nasalis larvatus</i>	JMHX01319535	JX856202	JX856202	JMHX01319539
<i>Natalus stramineus</i>	JN632826	JN414732	JN414793	AY835961
<i>Noctilio albiventris</i>	XXXXXX	XXXXXX	XXXXXX	KC783094
<i>Nomascus leucogenys</i>	ADFV01034609	Ensembl 65	Trace	Ensembl 67
<i>Notoryctes typhlops</i>	JN632780	JN414662	AF025385	JN633064
<i>Nycteris thebaica</i>	JN632827	JN414733	XXXXXX	XXXXXX
<i>Nycticebus coucang</i>	JN632840	JN414752	AJ313467	JN633110
<i>Nyctimene albiventer</i>	JN632830	JN414736	JN414796	AY835941
<i>Ochotona princeps</i>	ALIT01010450	Ensembl 65	Ensembl 65	ALIT01088100
<i>Octodon degus</i>	AJSA01144947	AJSA01172176	AJSA01165769	AJSA01101586
<i>Octodontomys gliroides</i>	JN632862	AF520649	JN414823	JN633123
<i>Odobenus rosmarus</i>	GU931079	DQ205815 and DQ240686	ANOP01060931	GU167490
<i>Okapia johnstoni</i>	JN632810	JN414690	JN414772	AY011798
<i>Orcinus orca Norway</i>	ANOL01060499	ANOL01013713	ANOL01076987	ANOL01044246
<i>Orycteropus afer</i>	JN632800	ALYB01229296	OAU48712	ALYB01309607
<i>Oryctolagus cuniculus</i>	EU142173	NM_001082636	Ensembl 65	Ensembl 67
<i>Otolemur garnettii</i>	AAQR03024534	Ensembl 65	Ensembl 65	HM759821
<i>Ovis aries</i>	AMGL01103677	DQ062717	AMGL01071959	ACIV011210939
<i>Pan paniscus</i>	HM761905	AJFE01034128	AJFE01027343	AJFE01032683

Name	FBN1	GHR	IRBP	PLCB4
<i>Pan_troglodytes</i>	HM761906	Ensembl 65	XM_507774	Ensembl 67
<i>Panthera_tigris</i>	ATCQ01053159	ATCQ01133818	ATCQ01119403	ATCQ01082781
<i>Pantholops_hodgsonii</i>	Scaffold 136	Scaffold 66	AGTT01119462	Scaffold 1136
<i>Papio_anubis</i>	HM761876	NM_001112616	AHZZ01022048	AHZZ01010220
<i>Papio_hamadryas</i>	HM761877	PreEnsembl 65	JX856204	PreEnsembl 67
<i>Pecari_tajacu</i>	JN632813	JN414694	JN414774	JN633089
<i>Pedetes_capensis</i>	EU142172	AF332025	AY303220	AY011765
<i>Peromyscus_maniculatus</i>	AYHN01122035	EF989785	AYHN01033340	AYHN01065874
<i>Petaurus_breviceps</i>	JN632788	JN414670	AY243441	JN633072
<i>Petromus_typicus</i>	JN632863	JN414761	AJ427244	JN633124
<i>Phascolarctos_cinereus</i>	JN632790	JN414672	AY243434	JN633074
<i>Phoca_vitulina</i>	JN632816	JN414717	GU167805	GU167474
<i>Phocoena_phocoena</i>	JN414653	JN414704	AF231340	JN414833
<i>Physeter_macrocephalus</i>	JN414655	JN414706	PCU50818	JN414835
<i>Pithecia_pithecia</i>	HM761960	KM013986	AJ313475	HM759746
<i>Platanista_minor</i>	JN414656	JN414707	JN414781	JN414836
<i>Podogymnura_truei</i>	XXXXXX	JN414740	JN414802	JN633106
<i>Pongo_abelii</i>	Ensembl 66:	Ensembl 65	XM_002820699	Ensembl 67
<i>Pontoporia_blainvillei</i>	JN414657	JN414708	AF304081	JN414837
<i>Prionodon_linsang</i>	GU931048	JN414709	JN414782	JN633091
<i>Procavia_capensis</i>	Ensembl 66	AF392896	Ensembl 65	AY011757
<i>Procyon_lotor</i>	GU931082	JN414718	AB082981	EF987932
<i>Propithecus_coquereli</i>	HM761972	JN414750	JZKE01166551	HM759879
		Propithecus_verreauxi coquereli (P. verreauxi i GenBank)		
<i>Propithecus_verreauxi</i>	HM761971	HM761361	AJ313471	HM759768
<i>Pseudocheirops_cupreus</i>	JN632793	JN414675	AF025387	JN633076
<i>Pteronotus_parnellii</i>	JN632825	JN414729	JN414790	AY835957
<i>Pteropus_alecto</i>	ALWS01090594	ALWS01086770	ALWS01070978	ALWS01097659
<i>Pteropus_giganteus</i>	JN632829	JN414735	JN414795	AY011790
<i>Pteropus_vampyrus</i>	Ensembl 66	AF392893	Ensembl 65	Ensembl 67
<i>Ptilocercus_lowii</i>	EU142182	JN414744	JN414806	EU142184
<i>Rattus_norvegicus</i>	Ensembl 66	Ensembl 65	Ensembl 65	Ensembl 66
<i>Rhinolophus_craeghi</i>	JN632831	JN414737	JN414797	AY835942
<i>Rhinolophus_ferrumequinum</i>	AWHA01124408	AWHA01237173	AWHA01036742	AWHA01164814
<i>Rhinopithecus_roxellana</i>	JABR01102817	JABR01045814	JABR01081887	JABR01097640
<i>Rhinopoma_hardwickii</i>	XXXXXX	JN414738	JN414798	AY835945
<i>Rhogeessa_tumida</i>	XXXXXX	XXXXXX	XXXXXX	AY835954
<i>Rhynchocyon_petersi</i>	JN632799	JN414682	JN414765	JN633082
<i>Rhyncholestes_raphanurus</i>	JN632782	JN414664	AY243440	JN633066
<i>Saccopteryx_bilineata</i>	JN632819	KM190105	JN414787	JN633104
<i>Saimiri_boliviensis</i>	PreEnsembl 66	AF339061	AGCE01062899	PreEnsembl 67
<i>Sarcophilus_harrisii</i>	AFEY01452333	Ensembl 65	AEFK01003355	Ensembl 67
<i>Solenodon_paradoxus</i>	XXXXXX	JN414741	XXXXXX	AY530074
<i>Sorex_araneus</i>	JN632834	Ensembl 65	Ensembl 65	AALT02098351
<i>Spermophilus_tridecemlineatus</i>	AGTP01002562	Ensembl 65	Ensembl 65	Ensembl 67
<i>Suricata_suricatta</i>	GU931052	JN414712	AY170084	JN633093
<i>Sus_scrofa</i>	Ensembl 66	JN414693	Ensembl 65	Ensembl 67
<i>Tadarida_brasiliensis</i>	JN632824	JN414728	AY243442	AY059707
<i>Talpa_altaica</i>	XXXXXX	JN414742	XXXXXX	AY011752
<i>Tamias_striatus</i>	EU142170	JN414762	AY227588	AY011762
<i>Tapirus_indicus</i>	JN632836	EU448990	JN414805	AY011801
<i>Tarsipes_rostratus</i>	JN632794	JN414676	FJ603128	JN633077
<i>Tarsius_bancanus</i>	HM761961	XXXXXX	AF271423	HM759866
<i>Tarsius_syrichta</i>	Ensembl 66	JN414753	Z11806	Ensembl 67
<i>Thryonomys_swinderianus</i>	JN632864	AF332035	AJ427243	JN633125
<i>Tragulus_napu</i>	JN632814	JN414695	JN414775	JN633090
<i>Trichechus_manatus</i>	AHIN01117896	AHIN01132166	AHIN01129411	AHIN01094092
<i>Trichosurus_vulpecula</i>	JN632789	JN414671	JN414764	JN633073
<i>Tupaia_belangeri</i>	AAPY01242497	AF332018	Ensembl 65	ALAR01066827
<i>Tupaia_minor</i>	EU142181	XXXXXX	JN414807	HM759839
<i>Turstopus_truncatus</i>	ABRN02156579	JN414697	Ensembl 65	ABRN02244949
<i>Urogale_everetti</i>	EU213054	XXXXXX	XXXXXX	FJ554952 gene
<i>Ursus_americanus</i>	genome	AF392879	AY303837	genome
<i>Ursus_arctos</i>	genome	genome	AY303842	genome

Name	FBN1	GHR	IRBP	PLCB4
<i>Ursus maritimus</i>	Scaffold 47	Scaffold 4	AY303843	Scaffold 53
<i>Vicugna pacos</i>	Ensembl 66	Ensembl 65	ABRR02133816	Ensembl 67
<i>Vombatus ursinus</i>	JN632795	JN414677	AF025386	JN633078
<i>Allenopithecus nigroviridis</i>	HM761835	JX856181	JX856181	HM759757
<i>Alouatta sara</i>	HM761924	JX856182	JX856182	HM759754
<i>Anolis carolinensis</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Cacajao calvus</i>	HM761935	JX856184	JX856184	HM759811
<i>Callimico goeldii</i>	HM761912	JX856186	JX856186	HM759835
<i>Cercocebus chrysogaster</i>	HM761836	JX856187	JX856187	HM759852
<i>Cercopithecus albogularis</i>	HM761838	JX856188	JX856188	HM759722
<i>Cercopithecus diana</i>	HM761841	HM761408	XXXXXX	HM759857
<i>Cynopterus brachyotis</i>	XXXXXX	XXXXXX	XXXXXX	AY835940
<i>Erinaceus concolor</i>	JN632833	KF783102	XXXXXX	AY011751
<i>Erythrocebus patas</i>	HM761855	JX856190	JX856190	HM759841
<i>Eulemur mongoz</i>	HM761977	HM761366	AF081064	HM759818
<i>Galago senegalensis</i>	HM761990	JX856194	JX856194	HM759724
<i>Gallus gallus</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Graphiurus murinus</i>	JN632861	AF332031	AY303219	JN633122
<i>Haplemur griseus</i>	HM761979	JX856196	JX856196	HM759800
<i>Hylobates agilis</i>	HM761897	HM761449	XXXXXX	HM759864
<i>Hylobates muelleri</i>	XXXXXX	HM761451	XXXXXX	HM759874
<i>Lagothrix lagotricha</i>	HM761911	JX856197	JX856197	HM759753
<i>Leontopithecus rosalia</i>	HM761919	JX856198	JX856198	HM759865
<i>Macaca fuscata</i>	HM761861	HM761422	AY434085	HM759850
<i>Miopithecus ogouensis</i>	HM761874	JX856201	JX856201	HM759733
<i>Moschus moschiferus</i>	JN632812	XXXXXX	XXXXXX	XXXXXX
<i>Neovison vison</i>	GU931073	AF498195	AB082977	EF472399
<i>Nomascus concolor</i>	HM761900	JX856203	JX856203	HM759804
<i>Ochotona hyperborea</i>	EU142174	XXXXXX	XXXXXX	AY011779
<i>Ornithorhynchus anatinus</i>	XXXXXX	AAPN01086960	XM_003428351	XXXXXX
<i>Panthera onca</i>	GU931047	DQ082104	HM107670	AY011804
<i>Pongo pygmaeus</i>	HM761908	JX856215	JX856215	HM759759
<i>Propithecus diadema</i>	HM761968	HM761358	EU342279	HM759815
<i>Pygathrix nemaesus</i>	HM761883	JX856207	JX856207	HM759727
<i>Rousettus lanosus</i>	XXXXXX	XXXXXX	XXXXXX	AY011791
<i>Saguinus fuscicollis</i>	XXXXXX	JX856208	JX856208	HM759807
<i>Saimiri oerstedii</i>	HM761954	JX856209	JX856209	HM759718
<i>Saimiri sciureus</i>	HM761955	AF540642	AF271424	HM759794
<i>Semnopithecus entellus</i>	HM761887	XXXXXX	JX856210	HM759720
<i>Sylvilagus floridanus</i>	XXXXXX	AF332017	JF938890	JN633105
<i>Symphalangus syndactylus</i>	HM761903	JX856211	JX856211	HM759875
<i>Tachyglossus aculeatus</i>	XXXXXX	JN414658	XXXXXX	XXXXXX
<i>Taeniopygia guttata</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Thyroptera tricolor</i>	JN632832	XXXXXX	JN414799	AY835958
<i>Trachypithecus francoisi</i>	HM761891	JX856213	JX856213	HM759732
<i>Tupaia glis</i>	HM761997	XXXXXX	Z11808	HM759747
<i>Tamandua tetradactyla</i>	XXXXXX	AF332011	FR871853	AY011749
<i>Xenopus tropicalis</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX

Name	PNOG	Rag1	Rag2
<i>Abrocoma bennettii</i>	XXXXXX	JN414949 (5' end) and JN633625 (3' end)	JN633325
<i>Acinonyx jubatus</i>	LLWD01000751	LLWD01000457	LLWD01000457
<i>Acrobates pygmaeus</i>	JN633771	JN414873 (5' end) JN633576 (middle) AY125029 (3' end)	JN633287
<i>Aepyprymnus rufescens</i>	JN633776	JN414878 JN633580 (middle) EU160451 (3' end)	JN633292
<i>Ailuropoda melanoleuca</i>	Ensembl 70	Ensembl 65	Ensembl 65
<i>Ailurus fulgens</i>	GU931199	JN414904 (5' end) AB188525 (3' end)	GU931272
<i>Amblysomus hottentotus</i>	AY059709	AY249882 (5' end) JN633587 (3' end)	AY059712
<i>Anomalurus beecroftii</i>	JN633798	JN414951 (5' end) JN633626 (3' end)	JN633326
<i>Anoura geoffroyi</i>	AY834591	AY834656	AF316431
<i>Antilocapra americana</i>	JN633787	EU189402 (5' end) JN414861 (3' end)	JN633306

Name	PNOC	Rag1	Rag2
<i>Antrozous pallidus</i>	AY834593	AF447507	GU328047
<i>Aotus nancymae</i>	HM759646	JYKP01046777	JYKP01046778
<i>Aplodontia rufa</i>	JN633799	AY241468 (5' end) JN633627 (3' end)	AY303198
<i>Apodemus sylvaticus</i>	LIPJ01006002 deleted strings of Ns	LIPJ01021423 deleted strings of Ns	LIPJ01021423
<i>Arctocephalus forsteri</i>	GU931194	JN414912 (5' end) GU167545 (3' end)	GU931267
<i>Artibeus jamaicensis</i>	AY011846	JN414928 (5' end) AY834655 (3' end)	GU328048
<i>Ateles fusciceps</i>	HM759650	JN414940 (5' end) AY065915 (3' end)	AY011958
<i>Balaena mysticetus</i>	scaffold 217	scaffold 714	scaffold 714
<i>Balaenoptera acutorostrata</i>	ATDI01119574	ATDI01028909	ATDI01028909
<i>Balaenoptera bonaerensis</i>	BAUQ01050306	BAUQ01605918	BAUQ01027122
<i>Bison bison</i>	JPYT01772756	JPYT01279625	JPYT01109101
<i>Bos grunniens</i>	AGSK01109838	AGSK01035660	AGSK01035661
<i>Bos indicus</i>	AGFL01073514	AGFL01132861	AGFL01132863
<i>Bos taurus</i>	Ensembl 66	Ensembl 65	Ensembl 65
<i>Bradypus tridactylus</i>	JN633785	JN414891 (5' end) JN633592 (3' end)	JN633304
<i>Bubalus bubalis</i>	AWWX01570869	AWWX01581293	AWWX01594338
<i>Caenolestes fuliginosus</i>	JN633766	JN633572 (5' end) AF303967 (3' end)	JN633282
<i>Callithrix jacchus</i>	HM759631	Ensembl 66	ACFV01039741
<i>Caluromys philander</i>	JN633762	DQ865884 gene	XXXXXX
<i>Camelus bactrianus</i>	JARL01033037	JARL01029584	JARL01029584
<i>Camelus dromedarius</i>	JDVD01005872	JDVD01007009	JDVD01007009
<i>Camelus ferus</i>	AGVR01022510	AGVR01060669	AGVR01060668
<i>Canis familiaris</i>	Ensembl 69	Ensembl 66	Ensembl 65
<i>Caperea marginata</i>	JN414838	EU445023 (5' end) JN414850 gene (3' end)	JN414980
<i>Capra aegagrus</i>	CBYH010013869	CBYH010004021	CBYH010004021
<i>Capra hircus</i>	AJPT01085885	AJPT01152538	AJPT01152539
<i>Capreolus capreolus</i>	CCMK010205611	CCMK010053590	CCMK010053590
<i>Capromys pilorides</i>	JN633800	JN414954 (5' end) KM013988 (3' end)	FM162107
<i>Castor canadensis</i>	AY011822	JN414956 (5' end) AY011880 (3' end)	AY303199
<i>Cavia aperea</i>	AVPZ01000112	AVPZ01000922	AVPZ01000922
<i>Cavia porcellus</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Cebus albifrons</i>	HM759656	JN414942 (5' end) HM759115 (3' end)	HM758944
<i>Ceratotherium simum</i>	AKZM01031561	AKZM01038803	AKZM01038803
<i>Cercartetus nanus</i>	JN633772	JN414874 (5' end) EU160452 (3' end)	JN633288
<i>Cercocebus atys</i>	JZLG01057570	JZLG01075869	JZLG01075869
<i>Cervus taiouanus</i>	JN633788	JN414893 (5' end) JN633594 gene (3' end)	JN633307
<i>Cheirogaleus medius</i>	HM759682	HM759144	HM758975
<i>Chinchilla lanigera</i>	AGCD01002969	AGCD01022724	AGCD01022723
<i>Chlorocebus sabaeus</i>	AQIB01116738	AQIB01084151	AQIB01084142
<i>Choloepus didactylus</i>	AY011809	AY011866	AY011921
<i>Choloepus hoffmanni</i>	ABVD01149221	ABVD01015893	Ensembl 65
<i>Chrysochloris asiatica</i>	AMDV01136016	AMDV01148163	AMDV01148164
<i>Colobus angolensis</i>	HM759566	JYKR01055426	JYKR01055427
<i>Condylura cristata</i>	XXXXXX	AJFV01041595	AJFV01041595
<i>Craseonycteris thonglongyai</i>	AY834603	JN414918 (5' end) AY834660 (3' end)	KP176002
<i>Cratogeomys castanops</i>	XXXXXX	JN633633 gene	XXXXXX
<i>Cricetulus griseus</i>	AFTD01156872	PreEnsembl 66	PreEnsembl 65
<i>Crocota crocata</i>	DQ082324	AY928752 (5' end) JN414907 (3' end)	DQ082369
<i>Ctenodactylus gundi</i>	JN633801	JN633629 gene	FM162097
<i>Ctenomys boliviensis</i>	XXXXXX	JN414961 (5' end) JN633630 (3' end)	XXXXXX
<i>Cuniculus taczanowskii</i>	JN633797	JN414950 (5' end) AY011894 (3' end)	AY011951
<i>Cyclopes didactylus</i>	JN633786	AY239196 (5' end) AY249875 (5' end) EU142186 (3' end)	JN633305
<i>Cynocephalus volans</i>	HM759547	XXXXXX	HM758834
<i>Cynopterus sphinx</i>	GAOV01077185	AF203758	EU617897
<i>Dasyprocta punctata</i>	XXXXXX	JN414962 gene	JN633331
<i>Dasyapus novemcinctus</i>	AAGV03295349	AAGV03297556	AAGV03297554
<i>Dasyurus albopunctatus</i>	XXXXXX	JN414883 (5' end) JN633585 (middle) AY243398 (3' end)	JN633297
<i>Daubentonia madagascariensis</i>	HM759681	JN414944 (5' end) HM759143 (3' end)	AGTM011788588
<i>Delphinapterus leucas</i>	JN414843	JN414899 (5' end) JN414855 (3' end)	JN414985
<i>Desmodus rotundus</i>	AY834590	AF447517 gene	AF316444
<i>Didelphis virginiana</i>	JN633761	DQ865890 (3' end) AF303969 (5' end)	XXXXXX

Name	PNOC	Rag1	Rag2
		overlapping region excluded)	
<i>Dinomys branickii</i>	AY011834	JN414963 (5' end) AY011893 (3' end)	FM162104
<i>Dipodomys heermanni</i>	AY011829	JN414968 (5' end) AY011888 (3' end)	AY011945
<i>Dipodomys ordii</i>	Ensembl 66	ABRO02033394	ABRO02033394
<i>Dromiciops gliroides</i>	JN633764	JN414866 (5' end) JN633570 (middle) AF303970 (3' end)	JN633280
<i>Dugong dugon</i>	JN633784	AY239193 JN633590 gene (3' end)	JN633302
<i>Echinops telfairi</i>	KC113263	AAIY02164265	Ensembl 65
<i>Echymipera kalubu</i>	JN633770	JN414872 (3' end) JN633575 gene (middle) AY243386 (5' end)	JN633286
<i>Eidolon helvum</i>	AWHC01062362	AWHC01086874	AWHC01086875 (5') and AWHC01086874 (3')
<i>Elephantulus edwardii</i>	AMGZ01076662	AMGZ01062569	AMGZ01062570
<i>Elephantulus rufescens</i>	AY011819	JN414888 (5' end) AY011877 gene (3' end)	AY011934
<i>Elephas maximus</i>	XXXXXX	EF551560 (5' end) and AY125021 (3' end)	JN633303
<i>Emballonura atrata</i>	AY834586	AF447519	AF447536
<i>Eptesicus fuscus</i>	ALEH01089586	ALEH01070252	ALEH01070252
<i>Equus asinus</i>	JREZ01000021	JREZ01000302	JREZ01000302
<i>Equus caballus</i>	AAWR02032145	Ensembl 66	Ensembl 65
<i>Equus przewalskii</i>	ATBW01064770	ATBW01046869	ATBW01046869
<i>Erethizon dorsatum</i>	AY011828	JN414966 (5' end) AY011887 (3' end)	AY303205
<i>Erinaceus europaeus</i>	Ensembl 66	Ensembl 66	AMDU01076615
<i>Eschrichtius robustus</i>	JN414840	EU445022 (5' end) JN414852 (3' end)	JN414982
<i>Eubalaena australis</i>	JN414839	JN414897 (5' end) JN414851 (3' end)	JN414981
<i>Eulemur flavifrons</i>	HM759694	LGHW01001998	LGHW01001998
<i>Eulemur macaco</i>	HM759693	LGHX01001981	LGHX01001981
<i>Eumops auripendulus</i>	AY834602	AY834659 gene	HQ671585
<i>Euphractus sexcinctus</i>	XXXXXX	AY011867 gene	AY011922
<i>Felis catus</i>	ACBE01125856	Ensembl 66	XM_004001424 with corrections at 219-225 based on ti 717069889
<i>Fossa fossana</i>	GU931177	JN633599 (5' end) JN414905 (3' end)	GU931251
<i>Fukomys damarensis</i>	AYUG01071401	AYUG01154367	AYUG01154365
<i>Furipterus horrens</i>	AY834600	JN414920 (5' end) AY834658 (3' end)	AY141016
<i>Galeopterus variegatus</i>	HM759546	JN414934 (5' end) AF203762 (3' end)	AF203772 RAG 2 (RAG 2) gene
<i>Genetta genetta</i>	DQ082328 PNOC	JN633609 (5' end) JN414915 (3' end)	DQ082373
<i>Glirionia venusta</i>	JN633763	DQ865891 g	XXXXXX
<i>Gorilla gorilla</i>	HM759617	CABD02060547	CABD02060547
<i>Heterocephalus glaber</i>	AHKG01038837	AHKG01047384	AHKG01047384 c
<i>Heterohyrax brucei</i>	JN633783	JN414890 gene	JN633301
<i>Hippopotamus amphibius</i>	AY011851	JN414894 (5' end) AY011909 (3' end)	AY011969
<i>Hipposideros commersoni</i>	AY834583	JN414921 (5' end) AF203760 (3' end)	AF203770
<i>Homo sapiens</i>	Ensembl 66	Ensembl 66	NG_007573 r
<i>Hoplomys gymnurus</i>	XXXXXX	JN414965 (5' end) JN633632 (3' end)	JN633332
<i>Hydrochoeris hydrochaeris</i>	AY011832	JN414969 (5' end) AY011891 gene (3' end)	AY011948 (5 prime end until overlap starts) + FM162109
<i>Hydrodamalis gigas</i>	consensus	Consensus	consensus
<i>Hylobates lar</i>	HM759610	HM759071	HM758898
<i>Hypsiprymnodon moschatus</i>	JN633777	JN414879 (5' end) JN633581 gene (middle) AY125044 (3' end)	JN633293
<i>Hystrix brachyura</i>	AY011827	JN414970 (5' end) AY011886 (3' end)	AY011943
<i>Inia geoffrensis</i>	JN414842	EU189406 (5' end) JN414854 (3' end)	JN414984
<i>Isoodon macrourus</i>	JN633768	JN414870 (5' end) JN633574 (middle)	JN633284
<i>Jaculus jaculus</i>	JN633802	AKZC01031223	AKZC01182975
<i>Kogia breviceps</i>	JN414845	JN414901 (5' end) JN414857 (3' end)	JN414987
<i>Lama glama</i>	AY011852	AF305953 gene	AF305954
<i>Laonastes aenigmamus</i>	JN633804	JN414977 gene	JN633338
<i>Lemur catta</i>	HM759699	JN414947 (5' end) HM759158 (3' end)	HM758993
<i>Leptonychotes weddellii</i>	APMU01068065	APMU01076581	APMU01076582
<i>Lipotes vexillifer</i>	AUPI01120855	AUPI01125323	AUPI01125324
<i>Loxodonta africana</i>	AAGU03044737	Ensembl 66	Ensembl 65
<i>Macaca fascicularis</i>	HM759574	AEHL01146141 c	CAEC01126428
<i>Macaca mulatta</i>	HM759577	Ensembl 66	Ensembl 65

Name	PNOc	Rag1	Rag2
<i>Macaca nemestrina</i>	HM759578	JZLF01064069	JZLF01064069
<i>Macroderma gigas</i>	AY834584	AY834654 gene	AY834661
<i>Macropus eugenii</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Macroscelides proboscideus</i>	AY011818	AY249884 (5' end) AY011876 (3' end)	AY011933
<i>Macrotis lagotis</i>	JN633769	JN414871 (5' end) AY125024 (3' end)	JN633285
<i>Mandrillus leucophaeus</i>	HM759586	JYKQ01038930	JYKQ01038930
<i>Manis pentadactyla</i>	AY011863	JN414916 (5' end) AY011919 (3' end)	short read archive (958 reads)
<i>Manis tricuspis</i>	JN633792	JN414917 (5' end) JN633610 (3' end)	XXXXX
<i>Marmota marmota</i>	CEEU01000062	CEEU01000004	CEEU01000004
<i>Megaderma lyra</i>	AY059711	JN414922 (5' end) AF203757 (3' end)	AWHB01434943
<i>Megaptera novaeangliae</i>	AY011849	EU445015 (5' end) AY011908 (3' end)	XXXXX
<i>Meles meles</i>	EF987967	JN414909 (5' end) GU167548 (3' end)	EF988010
<i>Mephitis mephitis</i>	GU931183	JN414908 (5' end) AB109358 (3' end)	GU931255
<i>Mesocricetus auratus</i>	APMT01094347	APMT01008006	APMT01008008
<i>Mesoplodon bidens</i>	JN414841	JN414898 (5' end) JN414853 (3' end)	JN414983
<i>Microcebus murinus</i>	Ensembl 66	Ensembl 65	ABDC01016726
<i>Microtus agrestis_Northern</i>	WGS specimen from England LIQJ01000077	WGS specimen from England LIQJ01002765	WGS specimen from England LIQJ01002765
<i>Microtus ochrogaster</i>	AHZW01131130	AHZW01089951	AHZW01089950
<i>Monodelphis domestica</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Mus musculus</i>	Ensembl 66	Ensembl 66	NM_009020 r
<i>Mustela putorius</i>	PreEnsembl 66	PreEnsembl 66	PreEnsembl 65
<i>Myocastor coypus</i>	AY011833	JN414955 (5' end) AY011892 (3' end)	AY011949
<i>Myodes glareolus</i>	LIP101000928	LIP101000471	LIP101000471
<i>Myotis brandtii</i>	ANKR01256740	ANKR01242610	ANKR01242611
<i>Myotis daubentonii</i>	AY834595	AF203754	AM265653
<i>Myotis davidii</i>	ALWT01208309	ALWT01038399	ALWT01038399
<i>Myotis lucifugus</i>	Ensembl 66	Ensembl 66	AAPE02039491
<i>Myrmecobius fasciatus</i>	JN633780	JN414884 (5' end) JN633586 (middle) AY125045 (3' end)	JN633298
<i>Myrmecophaga tridactyla</i>	AY011811	JN414892 (5' end) AY011870 (3' end)	KF543813
<i>Mystacina tuberculata</i>	AY834599	JN414925 (5' end) AY245419 (3' end)	AY141021
<i>Myzopoda aurita</i>	AY834596	JN414926 gene	AY141022
<i>Nandinia binotata</i>	GU931180	AY928756 (5' end) JN414910 (3' end)	GU931254
<i>Nannospalax ehrenbergi</i>	JN633805	JN414978 (5' end) AB303250 (3' end)	
<i>Nannospalax galili</i>	AXCS01035275	AXCS01186739	AXCS01186740
<i>Nasalis larvatus</i>	JMHX01319536	JMHX01189851	JMHX01319543
<i>Natalus stramineus</i>	AY834601	AF447510 gene	AY141024
<i>Noctilio albiventris</i>	AY834592	JN414927 (5' end) AF447509 gene (3' end)	AF330810 TK86633
<i>Nomascus leucogenys</i>	HM759611	Ensembl 66	Ensembl 65
<i>Notoryctes typhlops</i>	JN633765	EF551555 (5' end) AY125040 (3' end overlapping portion not used)	JN633281
<i>Nycteris thebaica</i>	XXXXXX	AY011907 gene	AF447530
<i>Nycticebus coucang</i>	HM759713	JN414948 (5' end) HM759169 (3' end)	HM759006
<i>Nyctimene albiventer</i>	AY834581	JN414930 (5' end) AF447514 (3' end)	AF447531
<i>Ochotona princeps</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Octodon degus</i>	AJSA01073112	AJSA01043913	AJSA01043912
<i>Octodontomys gliroides</i>	XXXXXX	JN414972 (5' end) JN633635 (3' end)	JN633335
<i>Odobenus rosmarus</i>	ANOP01043122	ANOP01036592	ANOP01036591
<i>Okapia johnstoni</i>	AY011854	AY239178 (5' end) AY011911 (3' end)	AY011973
<i>Orcinus orca_Norway</i>	ANOL01026860	ANOL02007033	ANOL02007033
<i>Orycteropus afer</i>	ALYB01083030	ALYB01129019	ALYB01129018
<i>Oryctolagus cuniculus</i>	AAGW02011023	Ensembl 66	M99311 (clone 1)
<i>Otolemur garnettii</i>	AAQR03106211	Ensembl 66	Ensembl 65
<i>Ovis aries</i>	HQ287724	AMGL01032945	AMGL01032945
<i>Pan paniscus</i>	HM759618	AJFE01106875 cntg107108	XM_003830356
<i>Pan troglodytes</i>	HM759619	Ensembl 66	Ensembl 65
<i>Panthera tigris</i>	ATCQ01143202	ATCQ01054359	ATCQ01054359
<i>Pantholops hodgsonii</i>	Scaffold 211	AGTT01013381	Scaffold 8
<i>Papio anubis</i>	HM759590	AHZZ01067728	XM_003910020
<i>Papio hamadryas</i>	HM759591	PreEnsembl 66	PreEnsembl 65
<i>Pecari tajacu</i>	JN633790	JN414896 (5' end) JN633596 gene (3' end)	JN633308

Name	PNOc	Rag1	Rag2
<i>Pedetes capensis</i>	AY011824	JN414973 (5' end) AY011882 gene (3' end)	AY303208
<i>Peromyscus maniculatus</i>	AYHN01092946	AYHN01065458	AYHN01065460
<i>Petaurus breviceps</i>	JN633773	JN414875 (5' end) JN633577 gene (middle) AY125026 (3' end)	JN633289
<i>Petromus typicus</i>	JN633803	JN414974 (5' end) JN633636 gene (3' end)	FM162099 activating gene 2
<i>Phascolarctos cinereus</i>	JN633775	JN414877 (3' end) JN633579 gene (middle) AF303973 (3' end)	JN633291
<i>Phoca vitulina</i>	GU931196	AY239187 (5' end) GU167527 (3' end)	GU931269
<i>Phocoena phocoena</i>	JN414844	JN414900 (5' end) JN414856 gene (3' end)	EF093057
<i>Physeter macrocephalus</i>	JN414846	EU445013 (5' end) JN414858 gene (3' end)	AWZP01020454
<i>Pithecia pithecia</i>	HM759678	HM759140	HM758971
<i>Platanista minor</i>	JN414847	JN414902 (5' end) JN414859 gene (3' end)	JN414989
<i>Podogymnura truei</i>	XXXXXX	JN414935 (5' end) JN633620 gene (3' end)	JN633319
<i>Pongo abelii</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Pontoporia blainvillei</i>	JN414848	EU189407 (5' end) JN414860 gene (3' end)	JN414990
<i>Prionodon linsang</i>	DQ082323 PNOc	JN633598 (5' end) JN414903 gene (3' end)	DQ082368
<i>Procavia capensis</i>	ABRQ01115666	Ensembl 66	JX869932
<i>Procyon lotor</i>	GU931203	JN414913 (3' end) AB109359 (5' end)	DQ660279
<i>Propithecus coquereli</i>	HM759689	JZKE01145601	JZKE01145597
<i>Propithecus verreauxi</i>	HM759688	HM759151	HM758983
<i>Pseudochirops cupreus</i>	KC113265	JN414880 (5' end) JN633582 gene (middle) AY243392 (3' end)	JN633294
<i>Pteronotus parnellii</i>	AY834597	AWGZ01182669	AF330817 TK17953
<i>Pteropus alecto</i>	ALWS01011831	ALWS01022109	ALWS01022110
<i>Pteropus giganteus</i>	AY011847	JN414929 (5' end) EU617964 (RAG1) gene (3' end)	EU617913
<i>Pteropus vampyrus</i>	Ensembl 66	Ensembl 66	JN398310
<i>Ptilocercus lowii</i>	EU142185	JN414939 (5' end) EU142188 (3' end)	EU142190
<i>Rattus norvegicus</i>	AY011826	Ensembl 66	NM_001100528 r
<i>Rhinolophus creaghi</i>	AY834582	JN414931 (5' end) AF447511 gene (3' end)	AF447528
<i>Rhinolophus ferrumequinum</i>	AWHA01076679	AWHA01098486	AWHA01073493
<i>Rhinopithecus roxellana</i>	JABR01048201	JABR01103957	JABR01103957
<i>Rhinopoma hardwickii</i>	AY834585	JN414932 (5' end) JN633619 gene (3' end)	AY141026
<i>Rhogeessa tumida</i>	AY834594	AF447508 gene	GU328109
<i>Rhynchocyon petersi</i>	JN633782	JN414889 (5' end) JN633589 gene (3' end)	JN633300
<i>Rhyncholestes raphanurus</i>	JN633767	JN414869 (5' end) JN633573 gene (middle portion) AY243399 (3' end)	JN633283
<i>Saccopteryx bilineata</i>	XXXXXX	JN414919 (5' end) JN633611 gene (3' end)	AY141015
<i>Saimiri boliviensis</i>	PreEnsembl 66	PreEnsembl 66	PreEnsembl 69
<i>Sarcophilus harrisii</i>	Ensembl 66	Ensembl 66	Ensembl 65
<i>Solenodon paradoxus</i>	JN633793	AY530075	AY451972
<i>Sorex araneus</i>	AALT02132100	AALT02072540	AALT02072540
<i>Spermophilus tridecemlineatus</i>	Ensembl 66	PreEnsembl 66	Ensembl 65
<i>Suricata suricatta</i>	DQ082326 PNOc	JN633600 (5' end) JN414906 gene (3' end)	DQ082371
<i>Sus scrofa</i>	Ensembl 66	Ensembl 66	AB091391
<i>Tadarida brasiliensis</i>	AY059710	AF203755	AY141019
<i>Talpa altaica</i>	XXXXXX	JN414937 (5' end) AB176542 (3' end)	HG737946
<i>Tamias striatus</i>	AY011821	JN414975 (5' end) AY011879 gene (3' end)	AY011936
<i>Tapirus indicus</i>	AY011857	AY239186 (5' end) AY011914 (3' end)	AY011976
<i>Tarsipes rostratus</i>	JN633778	JN414881 (5' end) JN633583 gene	JN633295

Name	PNOC	Rag1	Rag2
		(middle) AY125030 (3' end)	
<i>Tarsius bancanus</i>	HM759679	HM759141	HM758972
<i>Tarsius syrichta</i>	HM759680	Ensembl 66	Ensembl 65
<i>Thryonomys swinderianus</i>	XXXXXX	KJ742672	FM162098
<i>Tragulus napu</i>	JN633791	EU189404 (5' end) JN633597 (3' end)	JN633309
<i>Trichechus manatus</i>	AHIN01086509	AHIN01010247	AHIN01010247
<i>Trichosurus vulpecula</i>	JN633774	JN414876 (5' end) JN633578 (middle) AF303968 (3' end)	JN633290
<i>Tupaia belangeri</i>	Ensembl 66	ALAR01194604 ALAR01194605 ALAR01194606	ALAR01194606
<i>Tupaia minor</i>	HM759716	XXXXXX	HM759010
<i>Tursiops truncatus</i>	ABRN02276899	Ensembl 66	Ensembl 65
<i>Urogale everetti</i>	AF535069	XXXXXX	FJ554996
<i>Ursus americanus</i>	genome	genome	genome
<i>Ursus arctos</i>	AY011862	genome	genome
<i>Ursus maritimus</i>	Scaffold 89	Scaffold 46	Scaffold 46
<i>Vicugna pacos</i>	ABRR02046535	Ensembl 66	Ensembl 65
<i>Vombatus ursinus</i>	JN633779	JN414882 (5' end) JN633584 gene (middle) AY125038 (3' end)	JN633296
<i>Allenopithecus nigroviridis</i>	HM759548	HM759012	HM758835
<i>Alouatta sara</i>	HM759640	HM759100	HM758929
<i>Anolis carolinensis</i>	XXXXXX	XXXXXX	XXXXXX
<i>Cacajao calvus</i>	HM759654	HM759113	HM758942
<i>Callimico goeldii</i>	HM759627	HM759087	AY011961
<i>Cercocebus chrysogaster</i>	HM759549	HM759013	HM758836
<i>Cercopithecus albogularis</i>	HM759552	HM759016	HM758839
<i>Cercopithecus diana</i>	HM759555	HM759019	HM758842
<i>Cynopterus brachyotis</i>	AY834580	GQ410256	GQ410233
<i>Erinaceus concolor</i>	AY011812	AY011871 gene	AY011926
<i>Erythrocebus patas</i>	HM759569	HM759031	HM758854
<i>Eulemur mongoz</i>	HM759695	EU342315 (5' end) HM759154 (3' end)	HM758989
<i>Galago senegalensis</i>	HM759709	HM759166	HM759003
<i>Gallus gallus</i>	XXXXXX	XXXXXX	XXXXXX
<i>Graphiurus murinus</i>	XXXXXX	JN414971 (5' end) AB253970 (3' end)	JN633334 (5') & AY303206 (3')
<i>Haplemur griseus</i>	HM759697	HM759156	HM758991
<i>Hylobates agilis</i>	HM759609	HM759070	HM758897
<i>Hylobates muelleri</i>	HM759612	HM759073	HM758900
<i>Lagothrix lagotricha</i>	HM759626	HM759086	HM758914
<i>Leontopithecus rosalia</i>	HM759636	HM759095	HM758924
<i>Macaca fuscata</i>	HM759575	HM759035	HM758860
<i>Miopithecus ogouensis</i>	HM759588	HM759047	HM758873
<i>Moschus moschiferus</i>	JN414849	JN414862 gene	JN414991
<i>Neovison vison</i>	GU931191	AB109354	DQ660281
<i>Nomascus concolor</i>	HM759613	AY011901 gene	HM758901
<i>Ochotona hyperborea</i>	AY011836	AY011896 gene	AY011953
<i>Ornithorhynchus anatinus</i>	XXXXXX	NM_001242754_	AAPN01039734
<i>Panthera onca</i>	DQ082320 PNOC	AB371342	DQ082365
<i>Pongo pygmaeus</i>	HM759621	HM759082	HM758910
<i>Propithecus diadema</i>	HM759685	HM759148	HM758980
<i>Pygathrix nemaus</i>	XXXXXX	HM759056	HM758882
<i>Rousettus lanosus</i>	AY011848	JN398298 gene	JN400925
<i>Saguinus fuscicollis</i>	HM759665	HM759123	HM758953
<i>Saimiri oerstedii</i>	HM759671	HM759130	HM758962
<i>Saimiri sciureus</i>	HM759672	HM759131	HM758963
<i>Semnopithecus entellus</i>	HM759599	HM759060	HM758886
<i>Sylvilagus floridanus</i>	AY011835	AY011895 gene	AY011952
<i>Symphalangus syndactylus</i>	HM759616	HM759076	HM758904
<i>Tachyglossus aculeatus</i>	XXXXXX	EF551558 (5' end) AF303971 (3' end overlapping 5' region excluded)	JN633277
<i>Taeniopygia guttata</i>	XXXXXX	XXXXXX	XXXXXX
<i>Thyroptera tricolor</i>	AY834598	AY834657 gene	AY141028
<i>Trachypithecus francoisi</i>	HM759603	HM759065	HM758891
<i>Tupaia glis</i>	HM759715	XXXXXX	HM759009
<i>Tamandua tetradactyla</i>	AY011810	AY011869 gene	AY011924
<i>Xenopus tropicalis</i>	XXXXXX	XXXXXX	XXXXXX

Name	TTN	TYRI	VWF
<i>Abrocoma bennettii</i>	JN632939	JN633856	JN415073
<i>Acinonyx jubatus</i>	LLWD01000088	LLWD01000164	LLWD01000100
<i>Acrobates pygmaeus</i>	JN632879	JN633816	FJ603136
<i>Aepyprymnus rufescens</i>	JN632884	JN633821	EU160454
<i>Ailuropoda melanoleuca</i>	JN632922	ACTA01027567	JN415051
<i>Ailurus fulgens</i>	JN632911	XXXXXX	JN415043
<i>Amblysomus hottentotus</i>	JN632891	AY059714	JN415023
<i>Anomalurus beecrofti</i>	JN632941	JN633858	JN415075
<i>Anoura geoffroyi</i>	AY834686 and AY834718	AY834617	AY834738 (filled in at 5' end with FN645667)
<i>Antilocapra americana</i>	JN632902	JN415019	JN415028
<i>Antrozous pallidus</i>	AY834688 and AY834720	AY834618	AF447542
<i>Aotus nancymae</i>	JYKP01141924	JYKP01225816	JYKP01064820
<i>Aplodontia rufa</i>	JN632942	JN633859	AJ224662
<i>Apodemus sylvaticus</i>	LIPJ01004993	LIPJ01008495	LIPJ01007048
<i>Arctocephalus forsteri</i>	JN632919	JN633844	JN415048
<i>Artibeus jamaicensis</i>	AY834684 + JQ772104 + AY834717	AY012020	AY834737
<i>Ateles fusciceps</i>	EU213055 + JQ772094 + EU213058	HM757562	JN415070
<i>Balaena mysticetus</i>	bowhead genome scaffold_978	scaffold 1506	scaffold 1702
<i>Balaenoptera acutorostrata</i>	ATDI01024049	HQ826957	ATDI01107545 and ATDI01107546
<i>Balaenoptera bonaerensis</i>	BAUQ01145715	BAUQ01344277	BAUQ01175274
<i>Bison bison</i>	JPYT01071524 (5') and JPYT01156306 (middle) and JPYT01071525	JPYT01010301	JPYT01000203
<i>Bos grunniens</i>	AGSK01165435	AGSK01078389	AGSK01073924
<i>Bos indicus</i>	AGFL01014201	AGFL01203713	AGFL01051781
<i>Bos taurus</i>	Ensembl 65	HQ826962	Ensembl 56
<i>Bradypus tridactylus</i>	JN632899	XXXXXX	U31603
<i>Bubalus bubalis</i>	AWWX01487503	AWWX01575539	AWWX01623774
<i>Caenolestes fuliginosus</i>	JN632874	JN633811	AY243403
<i>Callithrix jacchus</i>	Ensembl 65	BBXK01014987	AJ410299
<i>Caluromys philander</i>	JN632870	JN633807	AY243404
<i>Camelus bactrianus</i>	GAEY01004921	CAOW010635054	GAEX01015860
<i>Camelus dromedarius</i>	JWIN01034647	JWIN01031931	GADT01063685
<i>Camelus ferus</i>	AGVR01055642	AGVR01047963	AGVR01007186
<i>Canis familiaris</i>	Ensembl 65	Ensembl 68	Ensembl 69
<i>Caperea marginata</i>	JN414992	JN415005	JN415036
<i>Capra aegagrus</i>	CBYH010045874	CBYH010068541	CBYH010000807
<i>Capra hircus</i>	AJPT01017489	AJPT01228320	AJPT01060586
<i>Capreolus capreolus</i>	CCMK010189923	CCMK010047128	CCMK010000060
<i>Capromys pilorides</i>	JN632944	XXXXXX	AJ251142
<i>Castor canadensis</i>	EU142192 + JQ772108 + EU142207	AY011999	AJ427228
<i>Cavia apera</i>	AVPZ01000334	AVPZ01000345	AVPZ01000009
<i>Cavia porcellus</i>	Build 3	Ensembl 68	AAKN02051670
<i>Cebus albifrons</i>	JN632935	JN633852	JN415071
<i>Ceratotherium simum</i>	AY834702 + AY834735	AKZM01032842	AKZM01041531
<i>Cercartetus nanus</i>	JN632880	JN633817	EU160455
<i>Cercocebus atys</i>	JZLG01059007	JZLG01020435	JZLG01065496
<i>Cervus taiouanus</i>	JN632904	AY011985	JN415029
<i>Cheirogaleus medius</i>	XXXXXX	HM757598	XXXXXX
<i>Chinchilla lanigera</i>	JN632946	AGCD01014860	AJ238385
<i>Chlorocebus sabaeus</i>	AQIB01009852	AQIB01098642	AQIB01143792
<i>Choloepus didactylus</i>	XXXXXX	XXXXXX	AJ278160
<i>Choloepus hoffmanni</i>	KC149755	Ensembl 68	JN415027
<i>Chrysochloris asiatica</i>	JN632892	AMDV01230520	AMDV01115286
<i>Colobus angolensis</i>	JYKR01070210	JYKR01046860	JYKR01009129
<i>Condylura cristata</i>	AJFV01005457	AJFV01042935	AJFV01069741
<i>Craseonycteris thonglongyai</i>	AY834698 + JQ772098 + AY834731	GU246539	AY834742
<i>Cratogeomys castanops</i>	JN632955	JN633864	XXXXXX
<i>Cricetulus griseus</i>	JN632947	AFTD01023952	AFTD01048392
<i>Crocota crocata</i>	JN632914	JN633839	AJ891084
<i>Ctenodactylus gundi</i>	JN632948	XXXXXX	JN415077

Name	TTN	TYR1	VWF
<i>Ctenomys boliviensis</i>	JN632949	JN633861	XXXXXX
<i>Cuniculus taczanowskii</i>	JN632940	JN633857	JN415074
<i>Cyclopes didactylus</i>	JN632901	XXXXXX	AJ278156
<i>Cynocephalus volans</i>	EU142211 & JQ772095 & EU142197	HM757456	JN415063
<i>Cynopterus sphinx</i>	XXXXXX	GAOV01008606	DQ445697
<i>Dasyprocta punctata</i>	JN632950	XXXXXX	JN415079
<i>Dasyopus novemcinctus</i>	AAGV03231233	Ensembl 68	AJ278158
<i>Dasyurus albopunctatus</i>	JN632889	JN633826	AY243414
<i>Daubentonia madagascariensis</i>	JN632936	AGTM011609371	AJ410293
<i>Delphinapterus leucas</i>	JN414997	HQ826955	AF231344
<i>Desmodus rotundus</i>	AY834685	GU246548	AF447550
<i>Didelphis virginiana</i>	JN632869	AY011982	JN415020
<i>Dinomys branickii</i>	JN632951	AY012009	AJ251145
<i>Dipodomys heermanni</i>	JN632956	JN633865	JN415081
<i>Dipodomys ordii</i>	Ensembl 65	ABRO02020772	ABRO02042796
<i>Dromiciops gliroides</i>	JN632872	JN633809	AY243407
<i>Dugong dugon</i>	JN632896	KR827299	U31608
<i>Echinops telfairi</i>	AAIY02072547	AAIY02171316	AAIY02258420
<i>Echymipera kalubu</i>	JN632878	JN633815	AY243405
<i>Eidolon helvum</i>	AWHC01182472	AWHC01071686	AWHC01046735
<i>Elephantulus edwardii</i>	AMGZ01001997	AMGZ01190015	AMGZ01140941
<i>Elephantulus rufescens</i>	KC149753	AY011996	U31612
<i>Elephas maximus</i>	JN632898	JN633832	U31611
<i>Emballonura atrata</i>	AY834680 and AY834713	AY834612	AF203776
<i>Eptesicus fuscus</i>	ALEH01020082	ALEH01105971	ALEH01056997
<i>Equus asinus</i>	JREZ01000090	JREZ01000687	JREZ01000019
<i>Equus caballus</i>	Ensembl 56	AAWR02017977	AAWR02029168
<i>Equus przewalskii</i>	ATBW01012248	ATBW01011868	ATBW01009757
<i>Erethizon dorsatum</i>	JN632954	AY012004	AJ251135
<i>Erinaceus europaeus</i>	AMDU01175342	Ensembl 68	Ensembl 66
<i>Eschrichtius robustus</i>	JN414994	JN415007	AF108833
<i>Eubalaena australis</i>	JN414993	JN415006	JN415037
<i>Eulemur flavifrons</i>	LGHW01008072	LGHW01001015	LGHW01000852
<i>Eulemur macaco</i>	LGHX01007930	LGHX01001009	JX856260
<i>Eumops auripendulus</i>	AY834697 and AY834730	AY834624	AY834741
<i>Euphractus sexcinctus</i>	XXXXXX	AY011984	AJ427364
<i>Felis catus</i>	AY834699 + AY834732	AANG02171092	AANG02135114
<i>Fossa fossana</i>	JN632912	JN633837	AJ891089
<i>Fukomys damarensis</i>	AYUG01115446	AYUG01109901	AYUG01152666
<i>Furipterus horrens</i>	AY834694 + JQ772099 + JQ772100 + AY834727	XXXXXX	AY834740
<i>Galeopterus variegatus</i>	EU142196 and EU213056	HM757455	U31606
<i>Genetta genetta</i>	JN632923	JN633848	JN415052
<i>Glironia venusta</i>	JN632871	JN633808	JN415021
<i>Gorilla gorilla</i>	Ensembl 65	HM757529	Ensembl 65
<i>Heterocephalus glaber</i>	JN632943	AHKG01088373	AJ251134
<i>Heterohyrax brucei</i>	JN632895	JN633830	JN415026
<i>Hippopotamus amphibius</i>	JN632906	HQ826958	AF108832
<i>Hipposideros commersoni</i>	AY834675 + JQ772101 + AY834708	GU246538	JN415056
<i>Homo sapiens</i>	Ensembl 56	Ensembl 68	ADDF02212640
<i>Hoplomys gymnurus</i>	JN632953	JN633863	JN415080
<i>Hydrochoeris hydrochaeris</i>	JN632957	AY012007	AJ251137
<i>Hydrodamalis gigas</i>	consensus	KR827302	Consensus
<i>Hylobates lar</i>	XXXXXX	HM757522	AJ410300
<i>Hypsiprymnodon moschatus</i>	JN632885	JN633822	FJ603139
<i>Hystrix brachyura</i>	JN632958	AY012003	JN415082
<i>Inia geoffrensis</i>	JN414996	JN415009	AF304107
<i>Isodon macrourus</i>	JN632876	JN633813	EU160456
<i>Jaculus jaculus</i>	JN632952	AKZC01121251	AKZC01270745
<i>Kogia breviceps</i>	JN414999	JN415012	JN415039
<i>Lama glama</i>	JN632903	AY012025	AF108835
<i>Laonastes aenigmamus</i>	JN632963	XXXXXX	AM407898
<i>Lemur catta</i>	EU142198 and EU142212	HM757614	AJ410292
<i>Leptonychotes weddellii</i>	APMU01055982	APMU01009345	APMU01072425
<i>Lipotes vexillifer</i>	AUPI01035337	AUPI01086990	AUPI01140634
<i>Loxodonta africana</i>	Ensembl 65	AAGU03072976	Ensembl 66

Name	TTN	TYR1	VWF
<i>Macaca fascicularis</i>	CAEC01071493	MAFATYR1	AEHL01095347 c
<i>Macaca mulatta</i>	Ensembl 65	AEHK01074654	AJ410302
<i>Macaca nemestrina</i>	JZLF01057388	JZLF01057276	JZLF01093863
<i>Macroderma gigas</i>	AY834677 and AY834710	AY834609	AY834736
<i>Macropus eugenii</i>	Ensembl 66	Ensembl 68	ABQO020079955 (5'), ABQO020135504 (3') and filled in gap with FJ603261
<i>Macroscelides proboscideus</i>	XXXXXX	AY011995	KF742646
<i>Macrotis lagotis</i>	JN632877	JN633814	EU369371
<i>Mandrillus leucophaeus</i>	JYKQ01141049	JYKQ01103113	JYKQ01092439
<i>Manis pentadactyla</i>	JPTV01002520	XXXXXX	JN415053
<i>Manis tricuspis</i>	JN632925	JN633849	JN415054
<i>Marmota marmota</i>	CEEU01000009	CEEU01000004	CEEU01000070
<i>Megaderma lyra</i>	AY834676 and AY834709	AWHB01105368	U31616
<i>Megaptera novaeangliae</i>	JN632909	JF768702 TYR	AF226849
<i>Meles meles</i>	JN632916	JN633841	JN415045
<i>Mephitis mephitis</i>	JN632915	JN633840	JN415044
<i>Mesocricetus auratus</i>	APMT01009738	APMT01181278	FM162063
<i>Mesoplodon bidens</i>	JN414995	JN415008	JN415038
<i>Microcebus murinus</i>	EU142199 and EU213057	ABDC01354122	ABDC01024492
<i>Microtus agrestis Northern</i>	LIQJ01001268 WGS specimen from England	WGS specimen from England LIQJ01000362	WGS specimen from England LIQJ01001756 deleted string of Ns
<i>Microtus ochrogaster</i>	AHZW01000408	AHZW01108140	AHZW01018231
<i>Monodelphis domestica</i>	Ensembl 56	Ensembl 68 and AAFR03058142	AY243415 and AAFR03037678 to fill in 5' and 3' ends (AAFR03037678 has problems in middle)
<i>Mus musculus</i>	Ensembl 65	Ensembl 68	AJ238390
<i>Mustela putorius</i>	AGTQ01012763	PreEnsembl 68	AGTQ01027201
<i>Myocastor coypus</i>	JN632945	AY012008	AJ251140
<i>Myodes glareolus</i>	LIP101003205	LIP101003344	LIP101000554
<i>Myotis brandtii</i>	ANKR01159991	ANKR01282680	ANKR01250225
<i>Myotis daubentonii</i>	AY834722	AY834620	FN645681
<i>Myotis davidii</i>	ALWT01078190	ALWT01070109	ALWT01049484
<i>Myotis lucifugus</i>	Ensembl 65	Ensembl 68	AAPE02006987
<i>Myrmecobius fasciatus</i>	JN632890	JN633827	FJ603134
<i>Myrmecophaga tridactyla</i>	JN632900	AY011987	AJ278157
<i>Mystacina tuberculata</i>	AY834693 and AY834726	AY834622	AY245421
<i>Myzopoda aurita</i>	AY834691 and AY834723	XXXXXX	XXXXXX
<i>Nandinia binotata</i>	JN632917	JN633842	JN415046
<i>Nannospalax ehrenbergi</i>	JN632964	JN633869	FM162064
<i>Nannospalax galili</i>	AXCS01203851	AXCS01131931	AXCS01230560
<i>Nasalis larvatus</i>	JMHX01319541	JMHX01319543	JMHX01319540
<i>Natalus stramineus</i>	AY834695 + JQ772103 + AY834728	AY834623	AF447545
<i>Noctilio albiventris</i>	AY834687 and AY834719	XXXXXX	JN415059
<i>Nomascus leucogenys</i>	Ensembl 65	Ensembl 68	ADFV01078399
<i>Notoryctes typhlops</i>	JN632873	JN633810	AY243408
<i>Nycteris thebaica</i>	JN632928	XXXXXX	AF447548
<i>Nycticebus coucang</i>	JN632938	HM757625	JN415072
<i>Nyctimene albiventer</i>	AY834673 and AY834706	GU246545 t	AF447549
<i>Ochotona princeps</i>	Ensembl 69 with deletion of one bp frameshift insertion (G) at position 975 based on trace file 1496864946, insertion of A at 1708 based on 1496864946, and deletion of extra A at 4121 based on 1544699849	Ensembl 68	AJ224672
<i>Octodon degus</i>	AJSA01106293	AJSA01229446	AJSA01193039
<i>Octodontomys gliroides</i>	JN632960	XXXXXX	JN415084
<i>Odobenus rosmarus</i>	ANOP01022688	ANOP01046915	JN415047
<i>Okapia johnstoni</i>	JN632905	JN415018	JN415030
<i>Orcinus orca Norway</i>	ANOL01017199	ANOL02030843	ANOL02052272
<i>Orycteropus afer</i>	JN632894	ALYB01075219	ALYB01067595
<i>Oryctolagus cuniculus</i>	Ensembl 65	Ensembl 68	AAGW02051557 and Ensembl (deleted 1 bp frameshift gap at position 6 based on trace files 1946567236 and 651097624)

Name	TTN	TYR1	VWF
<i>Otolemur garnettii</i>	Ensembl 65	AAQR03000569	Ensembl 69
<i>Ovis aries</i>	AMGL01052441	AMGL01060397	CBYI010022648
<i>Pan paniscus</i>	AJFE01051646 cntg51879	AJFE01118605	AJFE01069496
<i>Pan troglodytes</i>	Build 3	Ensembl 68	PTU31620
<i>Panthera tigris</i>	ATCQ01063976 and ATCQ01063977 (used 77 in region of overlap where there were differences)	ATCQ01037869	ATCQ01098059
<i>Pantholops hodgsonii</i>	Scaffold 730	Scaffold 364	AGTT01142904
<i>Papio anubis</i>	AHZZ01042829	AHZZ01062486	AHZZ01078155
<i>Papio hamadryas</i>	PreEnsembl 65	PreEnsembl 68	PreEnsembl 65 (string of Ns is too short in PreEnsembl)
<i>Pecari tajacu</i>	JN632907	JN633834	JN415033
<i>Pedetes capensis</i>	EU142193 and EU142208	AY012000	XXXXXX
<i>Peromyscus maniculatus</i>	AYHN01011787	AYHN01075377	YHN01088587
<i>Petaurus breviceps</i>	JN632881	JN633818	AY243417
<i>Petromus typicus</i>	JN632961	JN633867	AJ251144
<i>Phascolarctos cinereus</i>	JN632883	JN633820	AY243406
<i>Phoca vitulina</i>	JN632920	JN633845	JN415049
<i>Phocoena phocoena</i>	JN414998	JN415011	AF061060
<i>Physeter macrocephalus</i>	JN415000	AWZP01033371	AF108834
<i>Pithecia pithecia</i>	JX869921	HM757594	AJ410298
<i>Platanista minor</i>	JN415001	JN415014	JN415040
<i>Podogymnura truei</i>	JN632930	JN633851	JN415064
<i>Pongo abelii</i>	XM_002812635	Ensembl 68	ABGA01063077
<i>Pontoporia blainvillei</i>	JN415002	JN415015	JN415041
<i>Prionodon linsang</i>	JN632910	JN633836	JN415042
<i>Procavia capensis</i>	KC149754	AY011993	U31619
<i>Procyon lotor</i>	JN632921	JN633846	JN415050
<i>Propithecus coquereli</i>	JZKE01162408	JZKE01070264	JZKE01028614
<i>Propithecus verreauxi</i>	XXXXXX	HM757606	AJ410294
<i>Pseudocheirus cupreus</i>	JN632886	JN633823	FJ603135
<i>Pteronotus parnellii</i>	AWGZ01396272 (first 3850 bp) and AWGZ01396271 (rest)	AWGZ01343413	AY245420
<i>Pteropus alecto</i>	ALWS01095595	ALWS01169712	ALWS01057486
<i>Pteropus giganteus</i>	JN632929	GU246547	JN415060
<i>Pteropus vampyrus</i>	Ensembl 65	ABRP01196952	ABRP01038666
<i>Ptilocercus lowii</i>	EU142205 + JQ772107 + EU142214	EU142216	JN415068
<i>Rattus norvegicus</i>	XM_001065955	Ensembl 68	AJ224673 VWF gene
<i>Rhinolophus creaghi</i>	AY834674 + JQ772105 + AY834707	AY834607	AF447546
<i>Rhinolophus ferrumequinum</i>	AWHA01032626	AWHA01214112	AWHA01014377
<i>Rhinopithecus roxellana</i>	JABR01007721	JABR01101551	JABR01085496
<i>Rhinopoma hardwickii</i>	AY834679 and AY834712	AY834611	JN415061
<i>Rhogeessa tumida</i>	AY834689 and AY834721	AY834619	AF447543
<i>Rhynchocyon petersi</i>	JN632893	JN633829	JN415025
<i>Rhyncholestes raphanurus</i>	JN632875	JN633812	AY243416
<i>Saccopteryx bilineata</i>	JN632926	JN633850	JN415055
<i>Saimiri boliviensis</i>	AGCE01012640	PreEnsembl 68	AGCE01132938
<i>Sarcophilus harrisii</i>	Ensembl 65	Ensembl 68	Ensembl 65
<i>Solenodon paradoxus</i>	JN632931	AY530077	AY530079
<i>Sorex araneus</i>	JN632932	Ensembl 68	AALT02094936
<i>Spermophilus tridecemlineatus</i>	PreEnsembl 66	Ensembl 68	Ensembl 65
<i>Suricata suricatta</i>	JN632913	JN633838	AJ891099
<i>Sus scrofa</i>	Build 2	HQ826959	JN415032
<i>Tadarida brasiliensis</i>	AY834696 and AY834729	AY059715	JN415058
<i>Talpa altaica</i>	JN632933	AY011988	JN415065
<i>Tamias striatus</i>	EU142191 + EU142206	AY011998	JN415085
<i>Tapirus indicus</i>	JN632934	JF718847	JN415067
<i>Tarsipes rostratus</i>	JN632887	JN633824	FJ603137
<i>Tarsius bancanus</i>	XXXXXX	HM757595	AJ410296
<i>Tarsius syrichta</i>	KC113269 (segment 1)	Ensembl 68	ABRT02430124 and ABRT02430125
<i>Thryonomys swinderianus</i>	JN632962	JN633868	AJ224674
<i>Tragulus napu</i>	JN632908	JN633835	JN415034
<i>Trichechus manatus</i>	JN632897	AHIN01146985	AHIN01124423
<i>Trichosurus vulpecula</i>	JN632882	JN633819	JN415022
<i>Tupaia belangeri</i>	Ensembl 65	AAPY01628164	ALAR01234110

Name	TTN	TYR1	VWF
<i>Tupaia_minor</i>	EU142203 + EU142213	FJ554965	JN415069
<i>Tursiops_truncatus</i>	JN415003	HQ826956	JN415035
<i>Urogale_everetti</i>	EU142204 and EU213059	FJ554974	FJ555018
<i>Ursus_americanus</i>	genome	genome	genome
<i>Ursus_arctos</i>	genome	genome	genome
<i>Ursus_maritimus</i>	G10K scaffold 2	Scaffold 152	scaffold 178
<i>Vicugna_pacos</i>	ABRR02094169	ABRR02150084	XM_006210921
<i>Vombatus_ursinus</i>	JN632888	JN633825	AF497260
<i>Allenopithecus_nigroviridis</i>	JX869897	HM757457	JX856250
<i>Alouatta_sara</i>	JX869898	HM757553	JX856251
<i>Anolis_carolinensis</i>	Ensembl 56	XXXXXX	AAWZ02019410
<i>Cacajao_calvus</i>	JX869899	HM757565	JX856253
<i>Callimico_goeldii</i>	JX869901	HM757539	JX856255
<i>Cercocebus_chrysogaster</i>	JX869902	HM757458	JX856256
<i>Cercopithecus_albogularis</i>	JX869903	HM757461	JX856257
<i>Cercopithecus_diana</i>	XXXXXX	HM757464	XXXXXX
<i>Cynopterus_brachyotis</i>	AY834671 and AY834704	AY834605	GQ410279
<i>Erinaceus_concolor</i>	XXXXXX	XXXXXX	KF783089
<i>Erythrocebus_patas</i>	JX869905	HM757478	JX856259
<i>Eulemur_mongoz</i>	XXXXXX	HM757610	XXXXXX
<i>Galago_senegalensis</i>	JX869909	HM757622	JX856263
<i>Gallus_gallus</i>	Ensembl 56	XXXXXX	AADN03000107
<i>Graphiurus_murinus</i>	JN632959	JN633866	JN415083
<i>Haplemur_griseus</i>	XXXXXX	HM757612	JX856265
<i>Hylobates_agilis</i>	XXXXXX	HM757521	XXXXXX
<i>Hylobates_muelleri</i>	XXXXXX	HM757524	XXXXXX
<i>Lagothrix_lagotricha</i>	JX869911	HM757538	JX856266
<i>Leontopithecus_rosalia</i>	JX869912	HM757548	JX856267
<i>Macaca_fuscata</i>	XXXXXX	HM757484	XXXXXX
<i>Miopithecus_ogouensis</i>	JX869914	HM757497	JX856270
<i>Moschus_moschiferus</i>	JN415004	HQ826954	JN415031, listed as M. sp. in GenBank, but M. moschiferus
<i>Neovison_vison</i>	XXXXXX	EU627590	AB285413
<i>Nomascus_concolor</i>	XXXXXX	HM757525	
<i>Ochotona_hyperborea</i>	EU142195, KC149756, and EU142210	AY012011	XXXXXX
<i>Ornithorhynchus_anatinus</i>	Ensembl 56	AAPN01274682	XXXXXX
<i>Panthera_onca</i>	XXXXXX	AY012031	AB371364
<i>Pongo_pygmaeus</i>	JX869922	HM757533	JX856283
<i>Propithecus_diadema</i>	XXXXXX	HM757603	XXXXXX
<i>Pygathrix_nemaeus</i>	JX869924	PNTYR1	JX856275
<i>Rousettus_lanosus</i>	AY834672 and AY834705	GU246542	XXXXXX
<i>Saguinus_fuscicollis</i>	JX869925	HM757575	JX856276
<i>Saimiri_oerstedii</i>	JX869926	HM757584	JX856277
<i>Saimiri_sciureus</i>	PreEnsembl 66	HM757585	XXXXXX
<i>Semnopithecus_entellus</i>	JX869927	HM757510	JX856278
<i>Sylvilagus_floridanus</i>	EU142194 and EU142209	AY012010	XXXXXX
<i>Symphalangus_syndactylus</i>	XXXXXX	HM757528	JX856279
<i>Tachyglossus_aculeatus</i>	JN632868	XXXXXX	XXXXXX
<i>Taeniopygia_guttata</i>	Ensembl 56	XXXXXX	ABQF01036130
<i>Thyroptera_tricolor</i>	JQ772106 + AY834725	XXXXXX	AY834739
<i>Trachypithecus_francoisi</i>	JX869929	HM757515	JX856281
<i>Tupaia_glis</i>	XXXXXX	HM757628	AF061063
<i>Tamandua_tetradactyla</i>	XXXXXX	AY011986	AJ278161
<i>Xenopus_tropicalis</i>	Ensembl 56	XXXXXX	XXXXXX

Notes: All *Hydrodamalis* sequences are consensus sequences based on multiple individuals (all accession numbers provided in Springer et al. [28]). XXXXX denotes missing sequence data.

Table S2. Calibrations used in molecular dating analyses^A

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
1. Tetrapoda	<i>Lethiscus stocki</i>	337	351	[1]
2. Amniota	<i>Hylonomus lyelli</i>	318	332.9	[1]
3. Sauropsida	<i>Protorosaurus speneri</i>	255.9	295.5	[1]
4. Neognathae	<i>Vegavis iaii</i>	66.0	86.8	[1]
5. Mammalia	<i>Ambondro mahabo</i>	164.9	227	[1-7]
6. Monotremata	<i>Obdurodon insignis</i>	25.0	121	[7-9]
7. Caenolestidae	None	0	15.97	[7, 10, 11]
8. Didelphimorphia + Australidelphia	<i>Peradectes</i>	65.18	83.8	[7, 12]
9. Didelphidae	<i>Micoureus laventicus</i>	11.608	20.44	[7, 13]
10. Didelphimorphia	<i>Micoureus laventicus</i>	11.608	66.0	[7]
11. Dasyuromorphia	<i>Barinya wangala</i>	15.97	54.65	[7, 14]
12. Peramelidae	cf. <i>Peroryctes</i>	4.36	23.8	[7, 15]
13. Peramelemorphia	cf. <i>Peroryctes</i>	4.36	54.65	[7, 15, 16]
14. Burramyidae + Phalangeridae	<i>Eocuscus sarastamppi</i>	25.0	54.65	[7, 17]
15. Petauridae + Pseudocheiridae	<i>Paljara</i> sp. A	25.5	54.65	[7, 18]
16. Macropodidae + Potoroidae	<i>Bulungamaya delicata</i>	24.7	54.65	[7, 9, 18-20]
17. Vombatiformes	<i>Perikoala robusta</i>	25.5	54.65	[7, 18]
18. Placentalia	<i>Purgatorius</i>	65.2	131.5	[21, 22]
19. Chrysochloridae	<i>Amblysomus julianae</i>	1.7	33.9	[7, 23, 24]

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
20. Macroscelidea	<i>Myohyrax</i>	15.97	56.0	[7, 25, 26]
21. Hyracoidea	<i>Dendrohyrax</i>	6.08	11.62	[7, 27, 28]
22. Proboscidea	<i>Loxodonta</i>	6.8	11.62	[7, 29, 30]
23. Hyracoidea + Proboscidea	<i>Eritherium azzouzorom</i>	59.2	72.3	[7, 31, 32]
24. Sirenia	<i>Eotheroides aegyptiacum</i>	41.3	59.2	[7, 28, 33-35]
25. Dugongidae	<i>Crenatosiren olseni</i>	28.1	38.0	[28]
26. Paenungulata	<i>Eritherium azzouzorom</i>	59.2	72.3	[7, 31, 32]
27. Xenarthra	<i>Riostegotherium</i>	47.8	66.0	[7, 36, 37]
28. Pilosa	<i>Pseudoglyptodon chilensis</i>	31.5	66.0	[7]
29. Tardigrada	Megalonychidae fossils	15.97	41.3	[7]
30. Vermilingua	<i>Protamandua</i>	15.97	56.0	[7, 38]
31. Prionodontidae + Felidae	<i>Proailurus lemanensis</i> , <i>Stenogale julieni</i>	28.1	41.3	[7, 39-41]
32. Herpestidae + Eupleridae + Hyaenidae	<i>Protictitherium</i>	15.97	28.1 ^B	[42]
33. Carnivora	<i>Hesperocyon gregarious</i>	38.0	66.0	[7, 21, 40, 43]
34. Mustelidae + Procyonidae	<i>Promartes</i>	24.8	38.0 ^B	[44]; Paleobiology Database
35. Musteloidea	<i>Promartes</i>	24.8	38.0	[44]; Paleobiology Database
36. Odobenidae + Otariidae	<i>Proneotherium</i>	16.6	28.1	[45]
37. Pinnipedia	<i>Desmatophoca brachycephala</i>	20.43	33.9 ^B	[46]
38. Pinnipedia + Musteloidea	<i>Promartes</i>	24.8	38.0	[44]; Paleobiology Database

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
39. Arctoidea	<i>Cephalogale</i>	28.1	41.3	[7]
40. Caniformia	<i>Hesperocyon gregarius</i>	38.0	56.0	[7]
41. Ostentoria	<i>Ravenictis</i>	64.0	83.8	[47]
42. Craseonycteridae + Megadermatidae	<i>Saharaderma</i>	33.9	47.8	[7, 48]
43. Hipposideridae + Rhinolophidae	<i>Hipposideros</i>	38.0	56.0	[7, 48, 49]
44. Chiroptera	<i>Tachypterum franzeni</i> , <i>Witwatia sigei</i> , <i>Dizzya exsultans</i>	47.8	66.0	[7, 50-52]
45. Emballonuridae + Nycteridae	<i>Tachypterum franzeni</i>	47.8	59.2	[7, 50, 52]
46. Molossidae + Vespertilionidae + Miniopteridae	<i>Wallia scalopidens</i>	38.0	56.0	[7, 48, 53]
47. Molossidae + Vespertilionidae + Miniopteridae + Natalidae	<i>Wallia scalopidens</i>	38.0	56.0	[7, 48, 53]
48. Yangochiroptera	<i>Tachypterum franzeni</i> , <i>Witwatia sigei</i> , <i>Dizzya exsultans</i>	47.8	61.6	[7, 50, 51]
49. Furipteridae + Noctilionidae	<i>Noctilio lacrimaelunaris</i>	5.332	33.9	[7, 54]
50. Phyllostomidae + Mormoopidae	Mormoopid, gen. et sp. nov.	28.1	41.3	[7, 49, 55, 56]
51. Erinaceidae	<i>Neurogymnurus indricotherii</i> , <i>Palaeoscaptor acridens</i>	28.1	47.8	[9]
52. Erinaceidae + Soricidae	<i>Adunator ladae</i>	61.6	83.8	[1, 7, 21, 57]
53. Cetartiodactyla	<i>Himalayacetus</i>	52.5	66.0 ^C	[7]
54. Giraffidae to Antilocapridae	<i>Canthumeryx</i>	17.8	28.1	[7, 58, 59]
55. Moschidae to Bovidae	<i>Eotragus noyei</i>	18.0	28.1	[7, 60]

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
56. Suidae to Tayassuidae	<i>Hyotherium, Nguruwe</i>	15.97	38.0	[7, 61]
57. Whippomorpha	<i>Himalayacetus</i>	52.5	61.6 ^A	[7]
58. Cetacea	<i>Llanocetus denticrenatus</i>	34	47.8	[7, 62]
59. Neobalaenidae + Balaenopteroidea	<i>Mauicetus</i>	23.03	33.9 ^B	[63, 64]
60. Balaenopteroidea	<i>Plesiobalaenoptera</i>	7.3	13.82 ^B	[65]
61. Odontoceti	<i>Ferocetotherium</i>	23.03	33.9 ^B	[66, 67]
62. Physeteroidea	<i>Idiophyseter</i>	13.82	23.03	[68]; Paleobiology Database
63. Phocoenidae + Monodontidae	<i>Salumiphocoena stocktoni</i>	12.1	20.44	[7, 69]
64. Perissodactyla	<i>Hyracotherium</i>	55.5	61.6	[7, 70]
65. Ceratomorpha	<i>Cambaylophus</i>	53.7	61.6 ^B	[71]
66. Primatomorpha	<i>Purgatorius</i>	65.2	83.8	[7, 22, 72]
67. Primates	Numerous eosimiids (e.g., <i>Eosimias</i>)	38.0	66.0	[1, 73]
68. Haplorhini	Numerous eosimiids (e.g., <i>Eosimias, Phenacopithecus</i>)	38.0	59.2	[7, 73]
69. Anthroipoidea	<i>Aegyptopithecus</i>	28.1	56.0	[74, 75]
70. Platyrrhini	<i>Aotus dindensis</i>	11.8	37.3	[75]
71. <i>Aotus</i> + <i>Saguinus</i> + <i>Leontopithecus</i> + <i>Callimico</i> + <i>Callithrix</i>	<i>Aotus dindensis</i>	11.8	28.5	[75]
72. Catarrhini	<i>Morotopithecus bishopi</i>	20.55	38.0	[75-77]
73. Cercopithecoidea	<i>Microcolobus turgenensis</i>	8.5	13.82 ^B	[75, 78, 79]
74. Papionini	<i>Macaca libyca</i>	5.5	11.62 ^B	[75]

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
75. Hominoidea	<i>Sivapithecus</i>	12.68	23.03	[75, 77]
76. <i>Homo</i> + <i>Pan</i>	<i>Ardipithecus ramidus kadabba</i>	5.11	7.246 ^B	[21, 75]
77. Strepsirrhini	<i>Saharagalago misrensis</i>	38.0	56.0	[7, 80]
78. Galagidae + Lorisidae	<i>Saharagalago misrensis</i>	38.0	56.0	[7, 80]
79. Lagomorpha	Tarsals from Vastan mine	53.7	61.6	[7, 52, 71, 81]
80. Rodentia	<i>Acritoparamys</i> , <i>Paramys</i>	56.0	66.0	[1, 7]
81. Sciuromorpha to Hystricognathi	<i>Acritoparamys</i>	56.0	66.0	[7, 82-84]
82. Sciuromorpha	<i>Eogiliravus</i>	47.8	61.6	[7, 9]
83. Aplodontidae + Sciuridae	<i>Spurimus</i>	45.7	59.2	[9, 85]
84. Diatomyidae + Ctenodactylidae	<i>Fallomus</i>	28.3	47.8	[7, 9, 86]
85. Hystricognathi	<i>Cachiyacuy contamanensis</i>	40.94	56.0	[7, 52, 87, 88]
86. Phiomorpha + Caviomorpha	<i>Cachiyacuy contamanensis</i>	40.94	56.0	[7, 52, 87, 88]
87. Caviidae + Hydrochoeridae + Dasyproctidae	<i>Asteromys</i> , <i>Chubutomys</i>	24.5	38.0	[7, 89-91]
88. Chinchillidae + Dinomyidae	<i>Eoviscaccia</i>	24.5	38.0	[7, 89]
89. Chinchillidae + Dinomyidae + <i>Abrocoma</i> + Octodontoidea	<i>Sallamys</i> , <i>Xylechimys</i> , <i>Deseadomys</i>	24.5	38.0	[7, 89, 92, 93]
90. Octodontoidea	<i>Sallamys</i> , <i>Xylechimys</i> , <i>Deseadomys</i>	24.5	38.0	[7, 89, 92, 93]
91. Ctenomyidae + Octodontidae	<i>Xenodontomys</i> , <i>Palaeoctodon</i> , <i>Chasicomys</i>	9.07	33.9	[7, 89, 94]
92. Anomaluromorpha + Myomorpha	<i>Erlanomys</i>	54.0	61.6	[95]
93. Myomorpha (Muroidea + Dipodoidea)	<i>Pappocricetodon</i>	45.0	59.2	[7, 96]

Clade	Oldest crown fossil	Minimum age	Maximum age	References for oldest fossil(s) and discussion of calibration
94. Castorimorpha + Anomaluroomorpha + Myomorpha	<i>Erlianomys</i>	54.0	66.0	[9, 95]
95. Geomyoidea	<i>Proheteromys</i>	31.4	41.3	[7, 9, 85]
96. Castorimorpha		52.4	61.6	
97. <i>Rattus</i> + <i>Apodemus</i> + <i>Mus</i>	<i>Karnimata darwini</i>	10.4	15.97	[1, 7]
98. Hydrochoeridae to Caviidae	<i>Prodolichotis</i>	11.8	33.9	[7]
99. Scandentia	<i>Ptilocercus</i>	34.0	66.0	[7, 97, 98]

^ATable modified after Emerling et al. [7] and Springer et al. [98].

^BMaximum age based on stratigraphic bounding as in Springer et al. [28].

^CAs noted by Phillips [52], mesonychids may belong to crown Cetartiodactyla. Phillips [52] further suggested that this possibility should result in a maximum age of 71.2 Ma (base of Maastrichtian) for Cetartiodactyla following Meredith et al.'s [9] criteria for the application of stratigraphic bounding, but this is incorrect because Meredith et al. [9] employed the maximum of phylogenetic bracketing, phylogenetic uncertainty, or stratigraphic bounding, but not stratigraphic bounding on top of phylogenetic uncertainty. We therefore used a younger maximum of 66.0 Ma for Cetartiodactyla (also see Emerling et al. [7]).

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