**Table S1:** The names, Accession No and taxonomic classification of 24 different organisms whose protein sequences are used for multiple sequence alignment and phylogenetic analysis.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **NCBI Accession No.** | **Organism** | **Taxonomic Classification** |
|  | Q8IUM7 | Homo Sapiens (Human) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Primates |

 |
|  | XP\_001171566 | Pan troglodytes (Chimpanzee) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Primates |

 |
|  | XP\_003828720 | [Pan paniscus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9597) (Bonobo) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Primates |

 |
|  | XP\_003273945 | Nomascus leucogenys (northern white-cheeked gibbon) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Primates |

 |
|  | XP\_017712649 | Rhinopithecus bieti (black snub-nosed monkey) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Primates |

 |
|  | XP\_004437714 | Ceratotherium simum simum(southern white rhinoceros) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Perissodactyla |

 |
|  | XP\_001917367 | Equus caballus (horse) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Perissodactyla |

 |
|  | XP\_014700260 | Equus asinus(Donkey) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Perissodactyla |

 |
|  | XP\_015358576 | Marmota marmota marmota (Alpine marmot) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_006893354 | Elephantulus edwardii (Cape elephant shrew) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Macroscelidea |

 |
|  | XP\_004627252 | Octodon degus(degu) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_010634196 | Fukomys damarensis (Damara mole-rat) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_004656772 | Jaculus jaculus(lesser Egyptian jerboa) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_002709295 | Oryctolagus cuniculus (rabbit) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Lagomorpha |

 |
|  | XP\_013369270 | Chinchilla lanigera(long-tailed chinchilla) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_006860951 | Chrysochloris asiatica(Cape golden mole) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Afrosoricida |

 |
|  | XP\_005351758 | Microtus ochrogaster (prairie vole) |

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| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_006210724 | Vicugna pacos (alpaca) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Artiodactyla |

 |
|  | XP\_006179566 | Camelus ferus(Wild Bactrian camel) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Artiodactyla |

 |
|  | AAI29862 | Mus musculus(house mouse) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_003468315 | Cavia porcellus(domestic guinea pig) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_003509474 | Cricetulus griseus(Chinese hamster) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

 |
|  | XP\_004596699 | Ochotona princeps (American pika) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Ochotonidae |

 |
|  | XP\_005333442 | Ictidomys tridecemlineatus (thirteen-lined ground squirrel) |

|  |  |
| --- | --- |
| Kingdom:  | Animalia |
| Phylum: | Chordata |
| Class: | Mammalia |
| Order:  | Rodentia |

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