

Species Name	Common Name	Order	Family	Sequence Acquired	Reciprocal BLAST Performed (Yes, Software)	Reciprocal BLAST Acquired	GULO Transcript Number	Transcript Name	Chromosome / Scaffold	Genomic Length of GULO	GULO Functional	GULO Orientation	GULO/CLU Co-Occurrence	Clusterin Orientation	Notes
<i>Bos taurus</i>	Cow	Artiodactyla	Bovidae	Ensembl 107	No	NA	1		Primary Assembly 8	74,669,366 74,693,887	Yes	Forward	Yes	Reverse	
<i>Capra hircus</i>	Goat	Artiodactyla	Bovidae	Ensembl 107	No	NA	1		Chromosome 8	74,467,306 74,499,882	Yes	Forward	Yes	Reverse	Clusterin is located after three short ORFs
<i>Ovis aries</i>	Sheep (ewe)	Artiodactyla	Bovidae	Ensembl 107	No	NA	1	ENSGART00000010494.1	Chromosome 2	37,997,301 38,020,786	Yes	Reverse	Yes	Forward	Two small genes between GULO and CLU
<i>Delphinapterus leucas</i>	Beluga Whale	Artiodactyla	Monodontidae	Ensembl 107	No	NA	1	ENSELEF000000019301.1	Primary assembly MLT02014.1	10,876,042 10,905,071	Yes	Reverse	Yes	Forward	
<i>Monodon monoceros</i>	Narwhale	Artiodactyla	Monodontidae	Ensembl 107	No	NA	1	ENSMNNT0000015036348.1	Primary assembly SHG0100696	10,781,157 10,824,904	Yes	Reverse	Yes	Forward	
<i>Phocoena sinu</i>	Vaquita	Artiodactyla	Phocoenidae	Ensembl 107	No	NA	1	ENSPNT000000018163.1	Primary assembly 6	104,876.72 104,906.48 3	Yes	Forward	Yes	Reverse	
<i>Sus scrofa</i>	Pig (Reference)	Artiodactyla	Suidae	Ensembl 107	No	NA	2	ENSSCT000000010600.5	Primary assembly 14	11,300,045 11,336,139	Yes	Forward	Yes	Reverse	
<i>Canis lupus familiaris</i>	Dog (German Shepherd)	Carnivore	Canidae	Ensembl 107	No	NA	2		Primary Assembly 25	30,175,908 30,207,796	Yes	Reverse	Yes	Forward	
<i>Vulpes vulpes</i>	Fox	Carnivore	Canidae	Ensembl 107	No	NA	1	ENSVUT000000006063.1	Primary assembly NBD0010000	4,633,631 4,665,823	Yes	Reverse	Yes	Forward	
<i>Felis catus</i>	Cat	Carnivore	Felidae	Ensembl 107	No	NA	1	ENSCAT0000000028823.4	Chromosome B1	51,029,967 51,062,748	Yes	Forward	Yes	Reverse	
<i>Lynx canadensis</i>	Canadian Lynx	Carnivore	Felidae	Ensembl 107	No	NA	1	ENSLCNT000000009362.1	Primary assembly B1	48,944,439 48,978,740	Yes	Forward	Yes	Reverse	
<i>Zalophus californianus</i>	California Sea Lion	Carnivore	Otariidae	Ensembl 107	No	NA	1	ENSCZAT000150183.1	Primary assembly 2	153,632,000 153,663,133	Yes	Reverse	Yes	Forward	
<i>Hipposideros armiger</i>	Great Roundleaf bat	Chiroptera	Hipposideridae	NCBI	No	NA	1		Unplaced Chromosome	363,791 417,651	Yes	Forward	Yes	Reverse	
<i>Rousettus leichenaullii</i>	Rousette	Chiroptera	Pteropodidae	NCBI	No	NA	1	HQ415789.1	NA	NA	Yes	NA	NA	NA	Only an mRNA transcript is known
<i>Rhinolophus ferrumequinum</i>	Greater Horseshoe bat	Chiroptera	Rhinolophidae	Ensembl 107	No	NA	6		Primary Assembly 18	28,724,109 28,823,897	No	Forward	Yes	Reverse	Chose exons from <i>Hipposideros armiger</i> BLAST against greater horseshoe bat which aligned to the transcript ID of ENSRNO0010021794.1. Did not include additional exons of this transcript.
<i>Oryctolagus cuniculus</i>	Rabbit	Lagomorph	Leporidae	Ensembl 107	No	NA	2	ENSOCUT000000027132.3	Chromosome 2	42,085,515 42,110,122	Yes	Reverse	Yes	Forward	
<i>Ochotona princeps</i>	Pika	Lagomorph	Ochotonidae	Ensembl 107	Yes, NCBI, Oryctolagus cuniculus	Yes	0	NA	Gene Scaffold	320,944 329,721	Unlikely	Forward	Yes	Reverse	Chose sequences from reciprocal BLAST search to <i>Oryctolagus cuniculus</i> . Used NCBI fro reciprocal BLAST for relaxed alignment options
<i>Monodelphis domestica</i>	Opussum	Marsupial	Didelphidae	Ensembl 107	No	NA	1	ENSMODT000000300272.4	Primary assembly 1	504,174.88 504,231.04 3	Yes	Reverse	Yes	Forward	
<i>Microcebus murinus</i>	Mouse Lemur	Primate	Cheirogaleidae	Ensembl 107	No	NA	1	ENSMICT000000013941.2	Chromosome 20	17,188,391 17,206,499	Yes	Reverse	Yes	Forward	
<i>Otolemur garnettii</i>	Garnett's Galago	Primate	Galagidae	Ensembl 107	No	NA	1	ENSGOAT000000025787.1	Scaffold	3,059,738 3,080,850	Yes	Reverse	Yes	Forward	
<i>Proprhynchus coquereli</i>	Coquerel's Sifaka	Primate	Indridae	Ensembl 107	No	NA	1	ENSPICD000000017847.1	Scaffold	8,255,172 8,271,581	Yes	Forward	Yes	Reverse	
<i>Cavia aerea</i>	Brazilian Guinea Pig	Rodent	Caviidae	Ensembl 107	No	NA	1	ENSCAPT000000007155.1	AUP2010001	63,458,181 63,472,619	Likely	Forward	Yes	Reverse	
<i>Cavia porcellus</i>	Domestic Guinea Pig	Rodent	Caviidae	Ensembl 107	Yes, Ensembl, Cavia aerea	Yes	0	NA	D5562856.1	63,493,696 63,506,078	No	Forward	Yes	Reverse	Recovered exons from <i>Cavia aerea</i> GULO transcript
<i>Chinchilla lanigera</i>	Chinchilla	Rodent	Chinchillidae	Ensembl 107	No	NA	2	ENSCLAT000000021123.1	Scaffold	50,132,179 50,154,632	Yes	Forward	Yes	Reverse	
<i>Mesocricetus auratus</i>	Golden Hamster	Rodent	Cricetidae	Ensembl 107	No	NA	1	ENSMAUT0000001017046.1	Scaffold	2,434,830 2,454,258	Yes	Forward	Yes	Reverse	
<i>Meriones unguiculatus</i>	Mongolian Gerbil	Rodent	Muridae	Ensembl 107	No	NA	2	ENSMUJGT000000031480.1	Primary assembly NHT0100003	1,397,210 1,415,754	Yes	Reverse	Yes	Forward	
<i>Mus musculus</i>	Mouse (C57Bl/6)	Rodent	Muridae	Ensembl 107	No	NA	1	ENSMUST000000059970.9	Chromosome 14	66,224,235 66,246,656	Yes	Reverse	Yes	Forward	
<i>Rattus norvegicus</i>	Rat	Rodent	Muridae	Ensembl 107	No	NA	1	ENSRNTO000000012702.7	Primary assembly 15	40,205,665 40,227,874	Yes	Reverse	Yes	Forward	
<i>Ictidomys tridecemlineatus</i>	Striped Gopher	Rodent	Sciuridae	Ensembl 107	No	NA	1		Scaffold	470,978 492,441	Yes	Forward	Yes	Reverse	