

Deuterostomia		Homo sapiens	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQDVYKEHFQ
		Pongo abelii	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQDVYKEHFQ
		Pan troglodytes	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQDIYKEHFQ
		Macaca mulatta	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Saimiri boliviensis boliviensis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Callithrix jacchus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Propithecus coquereli	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKAHFQ
		Nomascus leucogenys	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Otolemur garnettii	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Microcebus murinus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Nannospalax galili	VTHYKQYPPNT - - - -XYFECHEKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Jaculus jaculus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Chinchilla lanigera	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Fukomys damarensis	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Heterocephalus glaber	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Octodon degus	VTHYKQYPPNTSKVYSYFECREKKIENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Cavia porcellus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Rattus norvegicus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Mus musculus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Peromyscus maniculatus bairdii	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Cricetulus griseus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Dipodomys ordii	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Marmota marmota marmota	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Oryctolagus cuniculus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Ochotona princeps	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Bubalus bubalis	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILHKYLKGGVVTKEIKIQAQEVYREHFQ
		Ovis aries musimon	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILHKYLKGGVVTKEIKIQAQEVYREHFQ
		Bos taurus	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILHKYLKGGVVTKEIKIQAQEVYREHFQ
		Vicugna pacos	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Camelus ferus	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Sus scrofa	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Ceratotherium simum simum	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Equus przewalskii	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Loxodonta africana	VTHYKQYPPNTSKVYSYFECREKKTENAKGRKVKEYEETVFYGLQYILNKYLKGGVVTTEEIKIQAQEVYKEHFQ
		Balaenoptera acutorostrata scammoni	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Physeter catodon	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Orcinus orca	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Leptonychotes weddellii	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Odobenus rosmarus divergens	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Acinonyx jubatus	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Felis catus	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Ursus maritimus	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Ailuropoda melanoleuca	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Myotis lucifugus	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Eptesicus fuscus	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Pteropus alecto	VTHYKQYPPNTSKVYSYFECREKKTENSKIKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Echinops telfairi	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Condylura cristata	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Sorex araneus	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Erinaceus europaeus	VTHYKQYPPNTSKVYSYFECREKKIENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Orycteropus afer afer	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Galeopterus variegatus	VTHYKQYPPNTSKVYSYFECREKKTENSKGRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Tupaia chinensis	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Chrysochloris asiatica	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Trichechus manatus latirostris	VTHYKQYPPNTSKVYSYFECREKKTENAKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Monodelphis domestica	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Dasypus novemcinctus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Ornithorhynchus anatinus	VTHYKQYPPNTSKVYSYFECREKKTENSKVRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ
		Struthio camelus australis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Podiceps cristatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Apteryx australis mantelli	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
		Calidris pugnax	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ
	Chlamydotis macqueenii	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Buceros rhinoceros silvestris	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Tauraco erythropholus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Picoides pubescens	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Tinamus guttatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Leptosomus discolor	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Merops nubicus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Colius striatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Apaloderma vittatum	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Cuculus canorus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Cariama cristata	VTHYKQYPPNTSKVYSYFECREKKTENSKIRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Pterocles gutturalis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Cathartes aura	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Gavia stellata	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Fulmarus glacialis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Opisthocomus hoazin	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Melopsittacus undulatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Nestor notabilis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Amazona aestiva	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Pygoscelis adeliae	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Aptenodytes forsteri	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Egretta garzetta	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Nipponia nippon	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Phaethon lepturus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Pelecanus crispus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKLKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Phalacrocorax carbo	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Manacus vitellinus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Corvus brachyrhynchos	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Taeniopygia guttata	VTHYKQYPPNTSKVYSYFECREKKTENSKLKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Acanthisitta chloris	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Geospiza fortis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKLKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Zonotrichia albicollis	VTHYKQYPPNTSKVYSYFECREKKTENSKLKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Sturnus vulgaris	VTHYKQYPPNTSKVYSYFECREKKTENSKLKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Pseudopodoces humilis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Parus major	VTHYKQYPPNTSKVYSYFECREKKTENSKLKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Coturnix japonica	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Meleagris gallopavo	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Gallus gallus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Aquila chrysaetos canadensis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Haliaeetus albicilla	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Falco peregrinus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Columba livia	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Calypte anna	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Chaetura pelagica	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Anser cygnoides domesticus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Alligator mississippiensis	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Pelodiscus sinensis	VTHYKQYPPNTSKVYSYFECREKKTENSKLKKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Chrysemys picta bellii	VTHYLQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Chelonina mydas	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Python bivittatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ	
	Gekko japonicus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ	
	Protophthalmos mucrosquamatus	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYREHFQ	
	Anolis carolinensis	VTHYKQYPPNTSKVYSYFECREKKTENSKFRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIQAQEVYKEHFQ	
	Xenopus laevis	VTHYKQYPPNTSRVYSYFECREKKTENSKIRKVKEYEETVFYGLQYTLKKYLEGGVVTKEIKIQAQEVYREHFQ	
	Latimeria chalumnae	VTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGGVVTKEIKIIV	