

	Human	A	M	V	K	P	I	S	L	T	G	E	R	Q	D	V	S	L	T	S	S	S	Q	*		K	P	S	W	S	P	K	P	G	V	L	T	P	S	V	G	V	P	P	T	M		S	R	L	W														
	Human	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Chimp	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Orangutan	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Gibbon	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Rhesus	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
Crab_eating_macaque	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG	
	Baboon	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Green_monkey	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Marmoset	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Squirrel_monkey	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Bushbaby	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TTC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Chinese_tree_shrew	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Squirrel	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
sser_Egyptian_jerboa	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG	
	Prairie_vole	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Chinese_hamster	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Golden_hamster	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Mouse	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Rat	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Naked_mole_rat	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Guinea_pig	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Chinchilla	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Brush_tailed_rat	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Rabbit	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Pika	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Pig	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Alpaca	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Dolphin	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Killer_whale	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC	GTG	GGG	GTG	CCT	GCA	CC	--	-	ACC	ATG	AG	-----	C	GC	CTG	CTC	TGG	AG
	Tibetan_antelope	ATG	GTC	AAA	CC	-	ATT	TCA	CTG	ACA	GGA	GAG	CAG	GAG	-	GA	CAG	GAC	GTG	TCT	CTC	TCC	A	-	CG	TCT	TCC	AGC	CAG	TAA	AA	-----	G	AAG	CCA	AGC	TGG	AGC	CAA	AAG	CCA	GGT	GTT	CTG	ACT	CCC	AGC																		