

Online Alignment Supplement – Nucleic acid alignment of 13 mitochondrial protein-coding genes used for all analyses.

Coordinates for genes are as follows:

Gene	Start Position	End Position
ATP6	1	729
ATP8	730	999
COX1	1000	2613
COX2	2614	3321
COX3	3322	4164
CYTB	4165	5403
ND1	5404	6402
ND2	6403	7497
ND3	7498	7890
ND4	7891	9339
ND4L	9340	9642
ND5	9643	11676
ND6	11677	12270



		140	*	160	*	180	*	200	*	220	*	240	*	260	
Bos_taurus	:	AAG	CAAT	CGCT	TTAA	CCCG	CCAA	CAAT	CTCA	CAAT	CTCA	CAAT	CTCA	CAAT	CTCA
Hylobates_lar	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Lemur_catta	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Nycticebus_coucang	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Tarsius_bancanus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Gorilla_gorilla	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Homo_sapiens	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Papio_hamadryas	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Cebus_albifrons	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Macaca_sylvanus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Pongo_pygmaeus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Pan_paniscus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Agkistrodon_piscivorus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Pantherophis_guttatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Dinodon_semicarinatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Boa_constrictor	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Python_regius	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Acrochordus_granulatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Cylindrophis_ruffus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Ovophis_okinavensis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Xenopeltis_unicolor	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Typhlops_reticulatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Leptotyphlops_dulcis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Caiman_crocodilus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Alligator_sinensis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Alligator_mississippiensis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Gavialis_gangeticus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Crocodylus_moreletii	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Dogania_subplana	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Pelomedusa_subrufa	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Chrysemys_picta	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Chelonia_mydas	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Tinamus_major	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Smithornis_sharpei	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Corvus_frugilegus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Vidua_chalybeata	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Buteo_buteo	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Falco_peregrinus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Dromaius_novaeollandiae	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Struthio_camelus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Apteryx_haastii	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Rhea_americanana	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Gallus_gallus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Ciconia_ciconia	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Ciconia_boyciiana	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Iguana_iguana	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Fumeces_egregius	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Sphenodon_punctatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Sceloporus_occidentalis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Cordylus_warreni	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Abronia_graminea	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Shinisaurus_crocodilurus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Varanus_komodoensis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Rhineura_floridana	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Geocalamus_acutus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Diplometopon_zarudnyi	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Amphisbaena_schmidti	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Bipes_tridactylus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Bipes_capaliculatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Bipes_biporus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Anolis_carolinensis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Ophisaurus_attenuatus	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Varanus_salvator	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Mertensiella_luschani	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC
Xenopus_laevis	:	TC	AA	CA	CCG	CA	TA	AT	CC	CA	CCG	CA	TA	AT	CC

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*      280      *      300      *      320      *      340      *      360      *      380      *      400
Bos_taurus      : AAACCTAGTAGGCCATATACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Hylobates_lar   : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Lemur_catta     : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Nycticebus_coucang : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Tarsius_bancanus : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Gorilla_gorilla : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Homo_sapiens   : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Papio_hamadryas : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Cebus_albifrons : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Macaca_sylvanus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Pongo_pygmaeus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Pan_paniscus   : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Agkistrodon_piscivorus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Pantherophis_guttatus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Dinodon_semicarinatus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Boa_constrictor : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Python_regius  : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Acrochordus_granulatus : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Chylindrophis_ruffus : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Ovophis_okinavensis : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Xenopeltis_unicolor : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Typhlops_reticulatus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Leptotyphlops_dulcis : AAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Caiman_crocodilus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Alligator_sinensis : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Alligator_mississippiensis : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 375
Gavialis_gangeticus : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 390
Crocodialis_moreletii : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 390
Dogania_subplana : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Pelomedusa_subrufa : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Chrysemys_picta : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Chelonia_mydas : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Tinamus_major : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Smithornis_sharpei : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Corvus_frugilegus : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Vidua_chalybeata : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Buteo_buteo    : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Falco_peregrinus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Dromaius_novaeollandiae : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Struthio_camelus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Apteryx_haastii : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Rhea_americanana : TAATCTATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Gallus_gallus : TAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Ciconia_ciconia : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Ciconia_boycciana : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Iguana_iguana  : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Fumeces_egregius : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Sphenodon_punctatus : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Sceloporus_occidentalis : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Cordylus_warreni : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Abronia_graminea : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Shinisaurus_crocodilurus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Varanus_komodoensis : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Rhinoceros_floridana : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Geocalamus_acutus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Diplometopon_zarudnyi : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Amphisbaena_schmidti : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Bipes_tridactylus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Bipes_canaliculatus : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Bipes_biporus  : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378
Anolis_carolinensis : AAATTAATAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Ophisaurus_atnuatus : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Varanus_salvator : CAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Mertensiella_luschani : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 381
Xenopus_laevis : AAACCTCTAGGCCCTTACCCCAATCTTACACCAACAAACAAATATCAATAAAAGTAGGATAGCCATCCCTCTGGAGCGGGGCGTAATACGGTCCGCAATAAATAAAGATCAATGCC : 378

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540      *      560      *      580      *      600      *      620      *      640      *      660
Bos_taurus          : TCCACCAGGGGGAACAGCTTCAATAAAGCATAGCCACCAAGNGTAAATACATTAAGCAATTAACCGTAAAGAAATAGAGTTCCAGTGGCTAAACCCNAGCCATAGATTCAG : 644
Hylobates_lar       : TACACCAGCGGACAGCCACAAAGAGCCTTAAACATTTAGCCATACCGGNACCCCCCTTAAAGCCCTTAAGTACCTTAATCTTAAACAACCCCTAGAAATCCGCGAGCCCTAAACCCAGCCATAGGCTTCAC : 644
Lemur_catta         : TACACTAATGGAGGGGCTACCTTAGATACTCCATCCATAGCCCGCGTACCGGCTCAATCCATTAATCCCTACCTTAAACATCCCTGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Nycticebus_coucang : TACACCAGCGGAGGGGCTTACAGAAATCTTAACTATAGCCATCGCGGGCTTAACTCCCTTAACTCTAAGCTTAAACATCCCTGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Tarsius_bancanus   : TACACCAGCGGAGGGGCTTACAGAAATCTTAACTATAGCCATCGCGGGCTTAACTCCCTTAACTCTAAGCTTAAACATCCCTGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Gorilla_gorilla    : TGCACCTAAAGGAGGGCCACCTAGAAATAACACCAACTCCCTTCAACATTAATTTATAGCTTAACTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Homo_sapiens       : TGCACCTAAAGGAGGGCCACCTAGAAATAACACCAACTCCCTTCAACATTAATTTATAGCTTAACTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Papio_hamadryas    : TGCACCTAAAGGAGAAATCTATGTAAACATTAACCAACTCAAACTCCACCCACCGATCTCCCTGTAAGCTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Cebus_albifrons    : TGCACCTACAGGAGAACTATAATTAATCTTCTTCTTATTAAGCTTCCCTCCCGTAACCGGTAACCGGTAATCGTATAATTAATTAATCCCTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Macaca_sylvanus    : TACACTAATGGAAAGGCCACCTAGACATATCCCATCAACTCCCTCCCTAAACATTAATTTATAGCTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Pongo_pygmaeus     : TGCACCTAAATGGAAAGGCCACCTAGACATATCCCATCAACTCCCTCCCTAAACATTAATTTATAGCTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Pan_paniscus       : TGCACCTAAATGGAAAGGCCACCTAGACATATCCCATCAACTCCCTCCCTAAACATTAATTTATAGCTTAACTATACTAGAAATCCGCGTGGCCCTAAATCCNAGCCATAGGCTTCAC : 644
Agkistrodon_piscivorus : TAAACAATGGGGCTCCGCCACCATCAATCTAATTAACCACTACAGCTCTGCAGCTCCCTAGCATTAACCCCTTACTCTTACTCAACTCCCTAGAGCTCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Pantherophis_guttatus : TAACTATAGTAGCCAGCCACACTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Dinodon_semicarinatus : TAACTATAGTAGCCAGCCACACTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Boa_constrictor    : TAACTATAGTAGCCAGCCAGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Python_regius      : TAACTATAGTAGCCAGCGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Acrochordus_granulatus : TAACTATAGTAGCCAGCGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Chylindrophis_ruffus : TAACTATAGTAGCCAGCGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Ovophis_okinavensis : TAACTATAGTAGCCAGCGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Xenopeltis_unicolor : TAACTATAGTAGCCAGCGCGCCCTTAAACCTTAAACAGACCCGCCATACCAAGGAACATAACATGACTAGACTTACTACTTCCCTATTAAGAACTAGGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Typhlops_reticulatus : TCCACTATAGGGCCACCCACAAAGAGACTTCTAGACCCAAAACAATCTCCCTCCATACCTGTACCCCTTACTAGCCCTCCAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Leptotyphlops_dulcis : TTAGCATAAATGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Caiman_crocodilus  : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Alligator_sinensis : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Alligator_mississippiensis : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 641
Gavialis_gangeticus : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 656
Crocodylus_moreletii : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 656
Dogania_subplana   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Pelomedusa_subrufa : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Chrysemys_picta    : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Chelonia_mydas     : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Tinamus_major      : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Smithornis_sharpei : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Corvus_frugilegus  : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Vidua_chalybeata   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Buteo_buteo        : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Falco_peregrinus   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Dromaius_novaeollandiae : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Struthio_camelus   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Apteryx_haastii    : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Rhea_americanana  : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Gallus_gallus      : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Ciconia_ciconia    : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Ciconia_boyciana   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Iguana_iguana      : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Fumeces_egregius   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Sphenodon_punctatus : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Sceloporus_occidentalis : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Cordylus_warreni   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Abronia_graminea   : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Shinisaurus_crocodilurus : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Varanus_komodoensis : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Rhineura_floridana : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Geocalamus_acutus  : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Diplometopon_zarudnyi : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Amphisbaena_schmidti : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Bipes_tridactylus  : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Bipes_canaliculatus : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Bipes_biporus      : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644
Anolis_carolinensis : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Ophisaurus_atnuatus : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Varanus_salvator    : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Mertensiella_luschani : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 647
Xenopus_laevis     : TCCACTATAGGGCCATGGCCACATCAACTAATACAAAGCCATACCCGACACTCTAAACAAAGCCCTTAAAGCCCTGAGCTTCCCTAGAAAATCCGAGTGGCCCTGATCCNAGCCATAGGCTTCAC : 644

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	*	680	*	700	*	720	*	740	*	760	*	780	*	8	
Bos_taurus	:	ACCTCAGTACGCTTAAACGACGACAAACG						AGCCG		AACAGCAAGCGAACAGGCGAACAATG				GTG	732
Hylobates_lar	:	ACCTCGGAGGCTTACCTCGAAGCAACAGG						AGCCG		CAATTAACAACCCCGCTGCGCTACAATC				CTC	732
Lemur_catta	:	ACCTAATGATAGCCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Nycticebus_coucang	:	ACCTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Tarsius_bancanus	:	ACCTCAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Gorilla_gorilla	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Homo_sapiens	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Papio_hamadryas	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Cebus_albifrons	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Macaca_sylvanus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Pongo_pygmaeus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Pan_paniscus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Agkistrodon_piscivorus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				ACT	732
Pantherophis_guttatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				ACT	732
Dinodon_semicarinatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Boa_constrictor	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Python_regius	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Acrochordus_granulatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				GTG	732
Cylindrophis_ruffus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Ovophis_okinavensis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Xenopeltis_unicolor	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	732
Typhlops_reticulatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT					729
Leptotyphlops_dulcis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT					729
Caiman_crocodilus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				ACT	735
Alligator_sinensis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				ACT	735
Alligator_mississippiensis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				ACT	729
Gavialis_gangeticus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTG	744
Crocodylus_moreletii	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	744
Dogania_subplana	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Pelomedusa_subrufa	:	ACCTTAGTACGCTTACCTACAGCAAAATG		AAA				AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTG	738
Chrysemys_picta	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Chelonia_mydas	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Tinamus_major	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Smithornis_sharpei	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Corvus_frugilegus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Vidua_chalybeata	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Buteo_buteo	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Falco_peregrinus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Dromaius_novaeollandiae	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Struthio_camelus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Apteryx_haastii	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Rhea_american	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Gallus_gallus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Ciconia_ciconia	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Ciconia_boyciana	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Iguana_iguana	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Eumeces_egregius	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Sphenodon_punctatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Sceloporus_occidentalis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Cordylus_warreni	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Abronia_graminea	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Shinisaurus_crocodilurus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Varanus_komodoensis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Rhineura_floridana	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Geocalamus_acutus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Diplometopon_zarudnyi	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Amphisbaena_schmidti	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Bipes_tridactylus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Bipes_canaliculatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Bipes_biporus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732
Anolis_carolinensis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Ophisaurus_attenuatus	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTA	735
Varanus_salvator	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Mertensiella_luschani	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	735
Xenopus_laevis	:	ACCTTAGTACGCTTACCTACAGCAAAATG						AGCCG		CAACTGACACATCAATGGCAATACAAAT				CTC	732







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*      1080      *      1100      *      1120      *      1140      *      1160      *      1180      *      1
Bos_taurus      : AATGAGATTTGGGCGTGGCGGGTAGAGGAAACGGCTAAGCCCTAAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1062
Hylobates_lar  : ATACTACTATTTGGCGATGGCGGGGGTGGGCAGGGCTAAGCCCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Lemur_catta    : ATACTACTATTTGGCGATGGCGGGGAGGAGGAAACGGCTAAGCCCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Nycticebus_coucang : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1065
Tarsius_bancanus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1065
Gorilla_gorilla : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Homo_sapiens   : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Papio_hamadryas : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Cebus_albifrons : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1062
Macaca_sylvanus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1062
Pongo_pygmaeus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Pan_paniscus   : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1068
Agkistrodon_piscivorus : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1026
Pantherophis_guttatus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1020
Dinodon_semicarinatus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1020
Boa_constrictor : GATATTTATTTGGGCGATGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Python_regius  : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Acrochordus_granulatus : GATATTTATTTGGGCGATGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Xylorhynchus_ruffus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Ovophis_okinavensis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1026
Xenopeltis_unicolor : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Typhlops_reticulatus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Leptotyphlops_dulcis : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Caiman_crocodilus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Alligator_sinensis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1047
Alligator_mississippiensis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1020
Gavialis_gangeticus : ATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Crocodylus_moreletii : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Dogania_subplana : ATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Pelomedusa_subrufa : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Chrysemys_picta : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1053
Chelonia_mydas : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1050
Tinamus_major : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Smithornis_sharpei : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Corvus_chalybeatus : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Vidua_chalybeata : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Buteo_buteo    : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Falco_peregrinus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Dromaius_novaeollandiae : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Struthio_camelus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Apteryx_haastii : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Rhea_americanana : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Gallus_gallus  : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Ciconia_ciconia : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Ciconia_boyciana : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1035
Iguana_iguana  : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Fumeces_egregius : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Sphenodon_punctatus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Sceloporus_occidentalis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Cordylus_warreni : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Abronia_graminea : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Shinisaurus_crocodilurus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Varanus_komodoensis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Rhineura_floridana : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Geocalamus_acutus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Diplometopon_zarudnyi : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Amphisbaena_schmidti : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Bipes_tridactylus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Bipes_capaliculatus : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Bipes_biporus  : GATATTTATTTGGGCGATGGCGGGTAGGGGCGGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1023
Anolis_carolinensis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1031
Ophisaurus_atnuatus : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Varanus_salvator : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029
Mertensiella_luschani : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1032
Xenopus_laevis : ATACTACTATTTGGGCGTGGCGGGGAGGAGGAAACGGCCAAAGCTCAATTCGCGGAAATGGCAACCCGGANCGCTGGGAGGACCAAACTACAAAGTAGTGAACCCGACAGGC 1029

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	1340	*	1360	*	1380	*	1400	*	1420	*	1440	*	1460	
Bos_taurus	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1328
Hylobates_lar	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Lemur_catta	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Nycticebus_coucang	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1331
Tarsius_bancanus	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1331
Gorilla_gorilla	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Homo_sapiens	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Papio_hamadryas	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Cebus_albifrons	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1328
Macaca_sylvanus	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1328
Pongo_pygmaeus	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Pan_paniscus	: C	T	C	A	T	T	C	A	T	T	C	A	T	: 1334
Agkistrodon_piscivorus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1292
Pantherophis_guttatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1286
Dinodon_semicarinatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1286
Boa_constrictor	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Python_regius	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Acrochordus_granulatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Cylindrophis_ruffus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Ovophis_okinavensis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1292
Xenopeltis_unicolor	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Typhlops_reticulatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Leptotyphlops_dulcis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Caiman_crocodilus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Alligator_sinensis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1313
Alligator_mississippiensis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1286
Gavialis_gangeticus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Crocodylus_moreletii	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Dogania_subplana	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Pelomedusa_subrufa	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Chrysemys_picta	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1319
Chelonia_mydas	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1316
Tinanus_major	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Smithornis_sharpei	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Corvus_fruyilegus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Vidua_chalybeata	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Buteo_buteo	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Falco_peregrinus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Dromaius_novaeollandiae	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Struthio_camelus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Apteryx_haastii	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Rhea_americanana	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Gallus_gallus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Ciconia_ciconia	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Ciconia_boycciana	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1301
Iguana_iguana	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Eumeces_egregius	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Sphenodon_punctatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Sceloporus_occidentalis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Cordylus_warreni	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Abronia_graminea	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Shinisaurus_crocodilurus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Varanus_komodoensis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Rhineura_floridana	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Geocalamus_acutus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Diplometopon_zarudnyi	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Amphisbaena_schmidti	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Bipes_tridactylus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Bipes_canaliculatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Bipes_biporus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1289
Anolis_carolinensis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1297
Ophisaurus_atnuatus	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Varanus_salvator	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295
Mertensiella_luschani	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1298
Xenopus_laevis	: C	A	G	C	T	A	C	T	A	C	T	A	C	: 1295

	*	1480	*	1500	*	1520	*	1540	*	1560	*	1580	*	
Bos_taurus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1461
Hylobates_lar	:	CCGGCGGG	GAAT	ATCT	CTAGGGG	TAAT	TAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Lemur_catta	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Nycticebus_coucang	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1464
Tarsius_bancanus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1464
Gorilla_gorilla	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Homo_sapiens	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Papio_hamadryas	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Cebus_albifrons	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1461
Macaca_sylvanus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1461
Pongo_pygmaeus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Pan_paniscus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1467
Agkistrodon_piscivorus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1425
Pantherophis_guttatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1419
Dinodon_semicarinatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1419
Boa_constrictor	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Python_regius	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Acrochordus_granulatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Cylindrophis_ruffus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Ovophis_okinavensis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1425
Xenopeltis_unicolor	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Typhlops_reticulatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Leptotyphlops_dulcis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Caiman_crocodilus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Alligator_sinensis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1446
Alligator_mississippiensis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1419
Gavialis_gangeticus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Crocodylus_moreletii	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Dogania_subplana	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Pelomedusa_subrufa	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Chrysemys_picta	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1452
Chelonia_mydas	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1449
Tinamus_major	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Smithornis_sharpei	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Corvus_frugilegus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Vidua_chalybeata	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Buteo_buteo	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Falco_peregrinus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Dromaius_novaeollandiae	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Struthio_camelus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Apteryx_haastii	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Rhea_americanana	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Gallus_gallus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Ciconia_ciconia	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Ciconia_boyciana	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1434
Iguana_iguana	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Eumeces_egregius	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Sphenodon_punctatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Sceloporus_occidentalis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Cordylus_warreni	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Abronia_graminea	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Shinisaurus_crocodilurus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Varanus_komodoensis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Rhineura_floridana	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Geocalamus_acutus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Diplometopon_zarudnyi	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Amphisbaena_schmidti	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Bipes_tridactylus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Bipes_capaliculatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Bipes_biporus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1422
Anolis_carolinensis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1430
Ophisaurus_atnuatus	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Varanus_salvator	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428
Mertensiella_luschani	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1431
Xenopus_laevis	:	CTTAGCGGGG	ATCC	CAAT	CTAGGGG	CAAC	CAAC	TTAATTA	CAAC	CAAT	CAAA	CCCG	CCG	1428

1600 \* 1620 \* 1640 \* 1660 \* 1680 \* 1700 \* 1720

Bos\_taurus : **A**CTCTGGTCCCG**G**ATAGAGCGGGATGACAAAGGTAATAACNGCCGGAACCAAAATAAGCCCTTCCTGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1594  
Hylobates\_lar : **C**TCCCTCCCTA**C**CG**G**CTAGCGCGGGATTAATATACTAAAGGACCGAAACCTAAACAATCTTCTTGACCCCGGGGGGGGGA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Lemur\_catta : **C**TCTCATCTTACCGGTTTAGAGAGAGGATTAATAACTAAAGTCCGAACTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Nycticebus\_coucang : **N**CTATCTTCCCGG**G**CTGTCCTGGAGCGGATACAAATGCTGTAAAGCCGAAACCTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1597  
Tarsius\_bancanus : **T**ACTATCCCTCCCG**G**CTAGAGAGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1597  
Gorilla\_gorilla : **G**TCTATCTTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Homo\_sapiens : **H**TCCATCTTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCCGGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Papio\_hamadryas : **P**TCTCTCCCT**A**CCG**G**CTAGCGCGGGATTAATAACTAAAGGACCGAACTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Cebus\_albifrons : **C**TCTCTCCCTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1594  
Macaca\_sylvanus : **M**TCTCTCCCT**A**CCG**G**CTAGCGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1594  
Pongo\_pygmaeus : **P**TCTCTCCCTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Pan\_paniscus : **P**TCTCTCCCTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1600  
Agkistrodon\_piscivorus : **A**CTCTAGAG**A**CTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1558  
Pantherophis\_guttatus : **P**ATTGGCCCTA**C**CCG**G**ATTAGAGAGGATTAATAACTAAAGTATGATGAAACTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1552  
Dinodon\_semicarinatus : **D**TCTTAGCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1552  
Boa\_constrictor : **B**CTTAGAG**A**CTCCCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Python\_regius : **P**TCTTAGCCCT**A**CCG**G**ATTAGAGAGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Acrochordus\_granulatus : **A**TCTTAGAG**A**CTCCCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Cylindrophis\_ruffus : **C**TACTGGCCCT**A**CCG**G**ATTAGAGGAGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Ovophis\_okinavensis : **O**TCTTAGAG**A**CTCCCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1558  
Xenopeltis\_unicolor : **X**ATTAGAG**A**CTCCCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Typhlops\_reticulatus : **T**TAATCCCT**A**CCG**G**ATTAGAGAGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Leptotyphlops\_dulcis : **L**ATTAGAG**A**CTCCCG**G**ATTAGAGAGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Caiman\_crocodilus : **C**TACTAGCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Alligator\_sinensis : **A**TCTATCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1579  
Alligator\_mississippiensis : **A**TCTATCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1552  
Gavialis\_gangeticus : **G**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Crocodylus\_moreletii : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Dogania\_subplana : **D**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Pelomedusa\_subrufa : **P**CTATCCCT**A**CCG**G**CTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Chrysemys\_picta : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1585  
Chelonia\_mydas : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1582  
Tinanus\_major : **T**TACTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Smithornis\_sharpei : **S**TACTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Corvus\_frugilegus : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Vidua\_chalybeata : **V**ACTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Buteo\_buteo : **B**TACTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Falco\_peregrinus : **F**CTCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Dromaius\_novaeollandiae : **D**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Struthio\_camelus : **S**TACTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Apteryx\_haastii : **A**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Rhea\_americanana : **R**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Gallus\_gallus : **G**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Ciconia\_ciconia : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Ciconia\_boyciiana : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1567  
Iguana\_iguana : **I**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Fumeces\_egregius : **F**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Sphenodon\_punctatus : **S**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Sceloporus\_occidentalis : **S**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Cordylus\_warreni : **C**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Abronia\_graminea : **A**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Shinisaurus\_crocodilurus : **S**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Varanus\_komodoensis : **V**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Rhineura\_floridana : **R**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Geocalamus\_acutus : **G**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Diplometopon\_zarudnyi : **D**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Amphisbaena\_schmidti : **A**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Bipes\_tridactylus : **B**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Bipes\_canaliculatus : **B**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Bipes\_biporus : **B**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1555  
Anolis\_carolinensis : **A**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1563  
Ophisaurus\_atnuatus : **O**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Varanus\_salvator : **V**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561  
Mertensiella\_luschani : **M**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1564  
Xenopus\_laevis : **X**TCTACTCCCT**A**CCG**G**ATTAGAGCGGGATTAATAACTAAAGGACCGAAACCTTAAACAACCTTTTTCGACCCGGAGGAGGGGCA**C**CCATATATAAAC**C**CTATAGTCTTAGGA : 1561

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*      1740      *      1760      *      1780      *      1800      *      1820      *      1840      *      1860
Bos_taurus      : ACCCGGANGCTACATCTTAATCTTACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1727
Hylobates_lar  : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Lemur_catta    : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Nycticebus_coucang : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1730
Tarsius_bancanus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1730
Gorilla_gorilla : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Homo_sapiens   : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Papio_hamadryas : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Cebus_albifrons : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1727
Macaca_sylvanus : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGGTAGCTCCCGCATCTGAGCCATTAATCTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1727
Pongo_pygmaeus : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Pan_paniscus   : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1733
Agkistrodon_piscivorus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1691
Pantherophis_guttatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1685
Dinodon_semicarinatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1685
Boa_constrictor : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Python_regius  : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Acrochordus_granulatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Cylindrophis_ruffus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Ovophis_okinavensis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1691
Xenopeltis_unicolor : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Typhlops_reticulatus : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Leptotyphlops_dulcis : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Caiman_crocodilus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Alligator_sinensis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1712
Alligator_mississippiensis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1685
Gavialis_gangeticus : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Crocodylus_moreletii : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Dogania_subplana : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Pelomedusa_subrufa : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Chelysemys_picta : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1718
Helonia_mydas  : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1715
Tinamus_major  : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Smithornis_sharpei : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Corvus_frugilegus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Vidua_chalybeata : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Buteo_buteo    : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Falco_peregrinus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Dromaius_novaeollandiae : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Struthio_camelus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Apteryx_haastii : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Rhea_americanana : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Gallus_gallus  : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Ciconia_ciconia : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Ciconia_boyciana : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1700
Iguana_iguana  : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Fumeces_egregius : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Sphenodon_punctatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Sceloporus_occidentalis : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Cordylus_warreni : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Abronia_graminea : ACCCGGANGCTACATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Shinisaurus_crocodilurus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Varanus_komodoensis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Rhineura_floridana : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Geocalamus_acutus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Diplometopon_zarudnyi : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Amphisbaena_schmidti : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Bipes_tridactylus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Bipes_canaliculatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Bipes_biporus  : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1688
Anolis_carolinensis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1696
Ophisaurus_atnuatus : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Varanus_salvator : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694
Mertensiella_luschani : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1697
Xenopus_laevis : ACCCGGANGCTTATATCTTAACTCCACCGGGTTGGATAAATCTGATATGCGACCTACATACTGGAAAAAAGAAACCTGGGTATAAGGGNATAGTGGGTATAAGGCAATGGATTCCTAGG : 1694

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	*	1880	*	1900	*	1920	*	1940	*	1960	*	1980	*	
Bos_taurus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1860										
Hylobates_lar	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Lemur_catta	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Nycticebus_coucang	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1863										
Tarsius_bancanus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1863										
Gorilla_gorilla	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Homo_sapiens	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Papio_hamadryas	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Cebus_albifrons	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1860										
Macaca_sylvanus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1860										
Pongo_pygmaeus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Pan_paniscus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1866										
Agkistrodon_piscivorus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1824										
Pantherophis_guttatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1818										
Dinodon_semicarinatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1818										
Boa_constrictor	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Python_regius	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Acrochordus_granulatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Cylindrophis_ruffus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Ovophis_okinavensis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1824										
Xenopeltis_unicolor	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Yeniplops_reticulatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Leptotyphlops_dulcis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Caiman_crocodilus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Alligator_sinensis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1845										
Alligator_mississippiensis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1818										
Gavialis_gangeticus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Crocodylus_moreletii	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Dogania_subplana	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Pelomedusa_subrufa	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Chrysemys_picta	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1851										
Chelonia_mydas	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1848										
Tinamus_major	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Smithornis_sharpei	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Corvus_frugilegus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Vidua_chalybeata	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Buteo_buteo	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Falco_peregrinus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Dromaius_novaeollandiae	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Struthio_camelus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Apteryx_haastii	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Rhea_americana	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Gallus_gallus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Ciconia_ciconia	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Ciconia_boycciana	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1833										
Iguana_iguana	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Eumeces_egregius	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Sphenodon_punctatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Sceloporus_occidentalis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Cordylus_warreni	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Abronia_graminea	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Shinisaurus_crocodilurus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Varanus_komodoensis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Rhineura_floridana	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Geocalamus_acutus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Diplometopon_zarudnyi	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Amphisbaena_schmidti	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Bipes_tridactylus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Bipes_canaliculatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Bipes_biporus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1821										
Anolis_carolinensis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1829										
Ophisaurus_atnuatus	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Varanus_salvator	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										
Mertensiella_luschani	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1830										
Xenopus_laevis	:	TTTCATGCTATGGCCGCCCAATATATACAGGGAAATGAGCGGNCACACGGCCCTACTTTCCACATCGCCCAATAAATAAGTATTCACACGGGGAAAAGCTTCGTCGTCGGCAACACTCAAT	:	1827										



	2000	*	2020	*	2040	*	2060	*	2080	*	2100	*	2120	
Bos_taurus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1993
Hylobates_lar	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Lemur_catta	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Nycticebus_coucang	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1996
Tarsius_bancanus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1996
Gorilla_gorilla	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Homo_sapiens	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Papio_hamadryas	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Cebus_albifrons	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1993
Macaca_sylvanus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1993
Pongo_pygmaeus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Pan_paniscus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1999
Agkistrodon_piscivorus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1957
Pantherophis_guttatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1951
Dinodon_semicarinatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1951
Boa_constrictor	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Python_regius	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Acrochordus_granulatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Cylindrophis_ruffus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Ovophis_okinavensis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1957
Xenopeltis_unicolor	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Typhlops_reticulatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Leptotyphlops_dulcis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Caiman_crocodilus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Alligator_sinensis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1978
Alligator_mississippiensis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1951
Gavialis_gangeticus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Crocodylus_moreletii	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Dogania_subplana	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Pelomedusa_subrufa	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Chrysemys_picta	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1984
Chelonia_mydas	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1981
Tinamus_major	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Smithornis_sharpei	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Corvus_frugilegus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Vidua_chalybeata	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Buteo_buteo	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Falco_peregrinus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Dromaius_novaeollandiae	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Struthio_camelus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Apteryx_haastii	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Rhea_american	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Gallus_gallus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Ciconia_ciconia	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Ciconia_boyciana	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1966
Iguana_iguana	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Eumeces_egregius	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Sphenodon_punctatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Sceloporus_occidentalis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Cordylus_warreni	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Abronia_graminea	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Shinisaurus_crocodilurus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Varanus_komodoensis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Rhineura_floridana	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Geocalamus_acutus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Diplometopon_zarudnyi	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Amphisbaena_schmidti	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Bipes_tridactylus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Bipes_canaliculatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Bipes_biporus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1954
Anolis_carolinensis	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1962
Ophisaurus_atnuatus	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Varanus_salvator	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960
Mertensiella_luschani	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1963
Xenopus_laeviss	: GG	GG	AA	AT	AA	AT	AA	AT	AA	AT	AA	AT	AA	: 1960



	*	2280	*	2300	*	2320	*	2340	*	2360	*	2380	*	
Bos_taurus	:	AATATTG	TGGG	CAAA	TAAAC	TG	CCCA	AAAC	CTTC	TAGGA	TATC	GGCAT	GC	2256
Hylobates_lar	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGCT	TATC	GGGAA	TAC	2262
Lemur_catta	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Nycticebus_coucang	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2259
Tarsius_bancanus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2259
Gorilla_gorilla	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Homo_sapiens	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Papio_hamadryas	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Cebus_albifrons	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2256
Macaca_sylvanus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2256
Pongo_pygmaeus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Pan_paniscus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2262
Agkistrodon_piscivorus	:	AATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2220
Pantherophis_guttatus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2214
Dinodon_semicarinatus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2214
Boa_constrictor	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Python_regius	:	AATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Acrochordus_granulatus	:	AATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Cylindrophis_ruffus	:	AATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Ovophis_okinavensis	:	AATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2220
Xenopeltis_unicolor	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Typhlops_reticulatus	:	AGCATTC	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Leptotyphlops_dulcis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Caiman_crocodilus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Alligator_sinensis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2244
Alligator_mississippiensis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2214
Gavialis_gangeticus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Crocodylus_moreletii	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Dogania_subplana	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Pelomedusa_sabrufa	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Chrysemys_picta	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2247
Chelonia_mydas	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2244
Tinamus_major	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Smithornis_sharpei	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Corvus_frugilegus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Vidua_chalybeata	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Buteo_buteo	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Falco_peregrinus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Dromaius_novaeollandiae	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Struthio_camelus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Apteryx_haastii	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Rhea_american	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Gallus_gallus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Ciconia_ciconia	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Ciconia_boyciana	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2229
Iguana_iguana	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Fumeces_egregius	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Sphenodon_punctatus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Sceloporus_occidentalis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Cordylus_warreni	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Abronia_graminea	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Shinisaurus_crocodilurus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Varanus_komodoensis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Rhineura_floridana	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Geocalamus_acutus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Diplometopon_zarudnyi	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Amphisbaena_schmidti	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Bipes_tridactylus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Bipes_canaliculatus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Bipes_biporus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2217
Anolis_carolinensis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2225
Ophisaurus_atnuatus	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Varanus_salvator	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223
Mertensiella_luschani	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2226
Xenopus_laevis	:	TATATTG	TGGG	TAA	CTAAC	CT	CCCA	AAAC	CTTC	TGGG	TATC	GGGAA	TAC	2223

	2400	*	2420	*	2440	*	2460	*	2480	*	2500	*	2520	
Bos_taurus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2389
Hylobates_lar	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Lemur_catta	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Nycticebus_coucang	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2392
Tarsius_bancanus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2392
Gorilla_gorilla	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Homo_sapiens	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Papio_hamadryas	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Cebus_albifrons	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2389
Macaca_sylvanus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2389
Pongo_pygmaeus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Pan_paniscus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2395
Agkistrodon_piscivorus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2353
Pantherophis_guttatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2347
Dinodon_semicarinatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2347
Boa_constrictor	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Python_regius	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Acrochordus_granulatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Chelone_mydas	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Ovophis_okinavensis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2353
Xenopeltis_unicolor	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Typhlops_reticulatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Leptotyphlops_dulcis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Caiman_crocodylus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Alligator_sinensis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2377
Alligator_mississippiensis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2347
Gavialis_gangeticus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Crocodylus_moreletii	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Dogania_subplana	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Pelomedusa_subrufa	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Chrysemys_picta	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2380
Chelonia_mydas	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2377
Tinanus_major	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Smithornis_sharpei	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Corvus_frugilegus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Vidua_chalybeata	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Buteo_buteo	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Falco_peregrinus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Dromaius_novaeollandiae	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Struthio_camelus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Apteryx_haastii	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Rhea_americanana	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Gallus_gallus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Ciconia_ciconia	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Ciconia_boyciiana	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2362
Iguana_iguana	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Eumeces_egregius	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Sphenodon_punctatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Sceloporus_occidentalis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Cordylus_warreni	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Abronia_graminea	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Shinisaurus_crocodylurus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Varanus_komodoensis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Rhineura_floridana	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Geocalamus_acutus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Diplometopon_zarudnyi	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Amphisbaena_schmidti	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Bipes_tridactylus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Bipes_canaliculatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Bipes_biporus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2350
Anolis_carolinensis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2358
Ophisaurus_attenuatus	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Varanus_salvator	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356
Mertensiella_luschani	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2359
Xenopus_laevis	: C	C	C	C	C	C	C	C	C	C	C	C	C	: 2356









		*	2940	*	2960	*	2980	*	3000	*	3020	*	3040	*	306	
Bos_taurus	:	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2855
Hylobates_lar	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Lemur_catta	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Nycticebus_coucang	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2855
Tarsius_bancanus	:	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2855
Gorilla_gorilla	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Homo_sapiens	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Papio_hamadryas	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Cebus_albifrons	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Macaca_sylvanus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2855
Pongo_pygmaeus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Pan_paniscus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2858
Agkistrodon_piscivorus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2879
Pantherophis_guttatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2873
Dinodon_semicarinatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2873
Boa_constrictor	:	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2882
Python_regius	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2882
Acrochordus_granulatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2882
Cylindrophis_ruffus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2843
Ovophis_okinavensis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2879
Xenopeltis_unicolor	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2885
Typhlops_reticulatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Leptotyphlops_dulcis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2823
Caiman_crocodilus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2855
Alligator_sinensis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2873
Alligator_mississippiensis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2825
Gavialis_gangeticus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2852
Crocodylus_moreletii	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2840
Dogania_subplana	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2813
Pelomedusa_subrufa	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Chrysemys_picta	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2849
Chelonia_mydas	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2846
Tinamus_major	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Smithornis_sharpei	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Corvus_frugilegus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Vidua_chalybeata	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Buteo_buteo	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Falco_peregrinus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Dromaius_novaeollandiae	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Struthio_camelus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Apteryx_haastii	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Rhea_americanana	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Gallus_gallus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2822
Ciconia_ciconia	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Ciconia_boycinana	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Iguana_iguana	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Fumeces_egregius	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Sphenodon_punctatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Sceloporus_occidentalis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Cordylus_warreni	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2837
Abronia_graminea	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Shinisaurus_crocodilurus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2828
Varanus_komodoensis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2879
Rhineura_floridana	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2825
Geocalamus_acutus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Diplometopon_zarudnyi	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Amphisbaena_schmidti	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2813
Bipes_tridactylus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Bipes_canaliculatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Bipes_biporus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2807
Anolis_carolinensis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2824
Ophisaurus_atnuatus	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2825
Varanus_salvator	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2876
Mertensiella_luschani	:	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2840
Xenopus_laevis	:	AA	GT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	AG	CT	2834



0 \* 3080 \* 3100 \* 3120 \* 3140 \* 3160 \* 3180 \*

Bos\_taurus : AGNAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2988  
 Hylobates\_lar : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGCTTACACACAGAGCGTGTCCCCCTCTGGGCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Lemur\_catta : AGNAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Nycticebus\_coucang : AGGATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2988  
 Tarsius\_bancanus : AGNAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2988  
 Gorilla\_gorilla : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Homo\_sapiens : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Papio\_hamadryas : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Cebus\_albifrons : AGNAGCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Macaca\_sylvanus : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2988  
 Pongo\_pygmaeus : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Pan\_paniscus : TGAAGCCCCGTCCTTAATAAATACACACAGAGAGTACTACACGAGCGTGTCCCCGATTAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2991  
 Agkistrodon\_piscivorus : AGGATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3012  
 Pantherophis\_guttatus : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3006  
 Dinodon\_semicarinatus : GGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3006  
 Boa\_constrictor : GAACTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3015  
 Python\_regius : GAACTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3015  
 Acrochordus\_granulatus : TCCCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3015  
 Cylindrophis\_ruffus : GAACTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2976  
 Orophis\_okinavensis : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3012  
 Xenopeltis\_unicolor : GAACTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3018  
 Thylops\_reticulatus : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Leptotyphlops\_dulcis : GGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2956  
 Caiman\_crocodilus : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2988  
 Alligator\_sinensis : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3006  
 Alligator\_mississippiensis : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2958  
 Gavialis\_gangeticus : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2985  
 Crocodylus\_moreletii : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2973  
 Dogania\_subplana : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2946  
 Pelomedusa\_subrufa : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Chelysemys\_picta : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2982  
 Chelonia\_mydas : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2979  
 Tinamus\_major : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Smithornis\_sharpei : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Corvus\_frugilegus : AGNATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Vidua\_chalybeata : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Buteo\_buteo : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Falco\_peregrinus : GGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Dromaius\_novaeollandiae : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Struthio\_camelus : GGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Apteryx\_haastii : GGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Rhea\_americanana : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Gallus\_gallus : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2955  
 Ciconia\_ciconia : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Ciconia\_boyciana : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Iguana\_iguana : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Eumeces\_egregius : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Sphenodon\_punctatus : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Sceloporus\_occidentalis : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Cordylus\_warreni : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2970  
 Abronia\_graminea : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Shinisaurus\_crocodilurus : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2961  
 Varanus\_komodoensis : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3012  
 Rhineura\_floridana : GGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2958  
 Geocalamus\_acutus : TGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Diplometopon\_zarudnyi : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Amphisbaena\_schmidti : AAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2946  
 Bipes\_tridactylus : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Bipes\_canaliculatus : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Bipes\_biporus : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2940  
 Anolis\_carolinensis : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2956  
 Ophisaurus\_atnuatus : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2958  
 Varanus\_salvator : AGGCTACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 3009  
 Mertensiella\_luschani : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2973  
 Xenopus\_laevis : AGAATACAAACCGAATCTTAGTACCCAGNAGAGTACTACACGAGCGTGTGCCCTTATAGGCCTAAAAACAGAGCCAAACCCAGGCCTTAAACCCAAACAAACCCGATATAGCCCGTCCAGGC : 2967

	3200	*	3220	*	3240	*	3260	*	3280	*	3300	*	3320	
Bos_taurus	: GATATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3099
Hylobates_lar	: GATATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Lemur_catta	: GTTTATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Nycticebus_coucang	: ATTTATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3099
Tarsius_bancanus	: GTTTATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3099
Gorilla_gorilla	: GATATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Homo_sapiens	: GATATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Papio_hamadryas	: GATATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Cebus_albifrons	: GATTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3108
Macaca_sylvanus	: GATTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3099
Pongo_pygmaeus	: GATTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Pan_paniscus	: GATTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3102
Agkistrodon_piscivorus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3123
Pantherophis_guttatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3117
Dinodon_semicarinatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3117
Boa_constrictor	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3126
Python_regius	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3129
Acrochordus_granulatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3126
Cylindrophis_ruffus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3087
Ovophis_okinavensis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3123
Xenopeltis_unicolor	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3129
Typhlops_reticulatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3051
Leptotyphlops_dulcis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3067
Caiman_crocodilus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3105
Alligator_sinensis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3123
Alligator_mississippiensis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Gavialis_gangeticus	: ATTTTATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3108
Crocodylus_moreletii	: ATTTTATACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3084
Dogania_subplana	: ACCTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3060
Pelomedusa_subrufa	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Chrysemys_picta	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3096
Chelonia_mydas	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3093
Tinanus_major	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Smithornis_sharpei	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Corvus_frugilegus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Vidua_chalybeata	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Buteo_buteo	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Falco_peregrinus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Dromaius_novaeollandiae	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Struthio_camelus	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3081
Apteryx_haastii	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Rhea_americana	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3081
Gallus_gallus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3069
Ciconia_ciconia	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Ciconia_boycinana	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Iguana_iguana	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Eumeces_egregius	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Sphenodon_punctatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3075
Sceloporus_occidentalis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Cordylus_warreni	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3087
Abronia_graminea	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Shinisaurus_crocodilurus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3078
Varanus_komodoensis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3129
Rhineura_floridana	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3069
Geocalamus_acutus	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3054
Diplometopon_zarudnyi	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3054
Amphisbaena_schmidti	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3060
Bipes_tridactylus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3051
Bipes_canaliculatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3051
Bipes_biporus	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3054
Anolis_carolinensis	: ATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3077
Ophisaurus_atnuatus	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3081
Varanus_salvator	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3126
Mertensiella_luschani	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3090
Xenopus_laevis	: GATTTTACGGGCAATGCTCAGAAATCGGGGCAAAACCAACNGTTATACCAATGCTGAGGAGAGCCCACTAAAGACCTTGAAAAAGATGCGCCAAATATA													: 3084

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*      3340      *      3360      *      3380      *      3400      *      3420      *      3440      *      34
Bos_taurus      : --GACACCCAAACGAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3230
Hylobates_lar  : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Lemur_catta     : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Nycticebus_coucang : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3230
Tarsius_bancanus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3230
Gorilla_gorilla : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Homo_sapiens    : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Papio_hamadryas : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Cebus_albifrons : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3239
Macaca_sylvanus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3230
Pongo_pygmaeus  : --ATGGTCCATCAATCAACGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Pan_paniscus    : --ATGGCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3233
Agkistrodon_piscivorus : --ATGGCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3254
Pantherophis_guttatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3248
Dinodon_semicarinatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3248
Boa_constrictor : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3257
Python_regius   : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3260
Acrochordus_granulatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3257
Cylindrophis_ruffus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3218
Ovophis_okinavensis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3254
Xenopeltis_unicolor : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3260
Thyphlops_reticulatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3182
Leptotyphlops_dulcis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3198
Caiman_crocodilus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3236
Alligator_sinensis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3254
Alligator_mississippiensis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Gavialis_gangeticus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3239
Crocodylus_moreletii : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3215
Dogania_subplana : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3191
Pelomedusa_subrufa : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Chrysemys_picta : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3227
Chelonia_mydas : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3224
Tinamus_major   : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Smithornis_sharpei : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Corvus_frugilegus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Vidua_chalybeata : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Buteo_buteo     : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Falco_peregrinus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Dromaius_novaeollandiae : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Struthio_camelus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3212
Apteryx_haastii : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Rhea_americanana : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3212
Gallus_gallus   : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3200
Ciconia_ciconia : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Ciconia_boyciiana : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Iguana_iguana   : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Fumeaces_egregius : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Sphenodon_punctatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3206
Sceloporus_occidentalis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Cordylus_warreni : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3218
Abronia_graminea : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Shinisaurus_crocodilurus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3209
Varanus_komodoensis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3260
Rhinurea_floridana : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3200
Geocalamus_acutus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3185
Diplometopon_zarudnyi : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3185
Amphisbaena_schmidti : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3191
Bipes_tridactylus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3182
Bipes_canaliculatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3182
Bipes_biparis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3185
Anolis_carolinensis : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3208
Ophisaurus_attnuatus : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3210
Varanus_salvator : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3257
Mertensiella_luschani : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3221
Xenopus_laevis  : --ATGACCCCAACCCAGGCTATGCTATAGTAAAGCCAGGCCGCGACCTTAAAGGAGCTTGGAGCCCTCAAAATAAGCGGCCAAACATGGATTGCAATTAACAAAGCCCGCTAAAC : 3215

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	60	*	3480	*	3500	*	3520	*	3540	*	3560	*	3580	*		
Bos_taurus	:	AAATGGCC	AAACAA	AAATATA	AAACAA	AAATATA	AAACAA	AAATATA	AAACAA	AAATATA	AAACAA	AAATATA	AAACAA	AAATATA	AAACAA	3363
Hylobates_lar	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Lemur_catta	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Nycticebus_coucang	:	CCGGGCT	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3363
Tarsius_bancanus	:	CTTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3363
Gorilla_gorilla	:	ACTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Homo_sapiens	:	ACTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Papio_hamadryas	:	ACTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Cebus_albifrons	:	CTGAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3372
Macaca_sylvanus	:	ACTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3363
Pongo_pygmaeus	:	AAAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Pan_paniscus	:	ACTAGGCC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3366
Agkistrodon_piscivorus	:	ALTAGGAC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3387
Pantherophis_guttatus	:	AAATAGGAC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3381
Dinodon_semicarinatus	:	AAATAGGAC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3381
Boa_constrictor	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3390
Python_regius	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3393
Acrochordus_granulatus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3390
Cylindrophis_ruffus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3351
Ovophis_okinavensis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3387
Xenopeltis_unicolor	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3393
Typhlops_reticulatus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3315
Leptotyphlops_dulcis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3331
Caiman_crocodilus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3369
Alligator_sinensis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3387
Alligator_mississippiensis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Gavialis_gangeticus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3372
Crocodylus_moreletii	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3348
Dogania_subplana	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3324
Pelomedusa_subrufa	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Chrysemys_picta	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3360
Chelonia_mydas	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3357
Tinamus_major	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Smithornis_sharpei	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Corvus_frugilegus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Vidua_chalybeata	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Buteo_buteo	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Falco_peregrinus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Dromaius_novaeollandiae	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Struthio_camelus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3345
Apteryx_haastii	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Rhea_americanana	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3345
Gallus_gallus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3333
Ciconia_ciconia	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Ciconia_boyciana	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Iguana_iguana	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Eumeces_egregius	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Sphenodon_punctatus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3339
Sceloporus_occidentalis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Cordylus_warreni	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3351
Abronia_graminea	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Shinisaurus_crocodilurus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3342
Varanus_komodoensis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3393
Rhineura_floridana	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3333
Geocalamus_acutus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3318
Diplometopon_zarudnyi	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3318
Amphisbaena_schmidti	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3324
Bipes_tridactylus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3315
Bipes_canaliculatus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3315
Bipes_biporus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3318
Anolis_carolinensis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3341
Ophisaurus_atnuatus	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3343
Varanus_salvator	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3390
Mertensiella_luschani	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3354
Xenopus_laevis	:	ACTAGGC	CTA	CAATAA	CGCTAAC	CAATAT	CCAAAG	GGGGCCCG	CGA	CGCGAAAG	GCCTA	CCANGG	CCCAAT	CCCCCG	CGT	3348

	3600	*	3620	*	3640	*	3660	*	3680	*	3700	*	3720	
Bos_taurus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3496
Hylobates_lar	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Lemur_catta	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Nycticebus_coucang	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3496
Tarsius_bancanus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3496
Gorilla_gorilla	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Homo_sapiens	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Papio_hamadryas	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Cebus_albifrons	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3505
Macaca_sylvanus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3496
Pongo_pygmaeus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Pan_paniscus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3499
Agkistrodon_piscivorus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3520
Pantherophis_guttatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3514
Dinodon_semicarinatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3514
Boa_constrictor	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3523
Python_regius	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3526
Acrochordus_granulatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3523
Cylindrophis_ruffus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3484
Ovophis_okinavensis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3520
Xenopeltis_unicolor	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3526
Thelphaps_reticulatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3448
Leptotyphlops_dulcis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3464
Caiman_crocodilus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3502
Alligator_sinensis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3520
Alligator_mississippiensis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Gavialis_gangeticus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3505
Crocodylus_moreletii	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3481
Dogania_subplana	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3457
Pelomedusa_subrufa	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Chelysemys_picta	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3493
Chelonia_mydas	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3490
Tinanus_major	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Smithornis_sharpei	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Corvus_frugilegus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Vidua_chalybeata	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Buteo_buteo	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Falco_peregrinus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Dromaius_novaeollandiae	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Struthio_camelus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3478
Apteryx_haastii	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Rhea_americanana	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3478
Gallus_gallus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3466
Ciconia_ciconia	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Ciconia_boyciiana	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Iguana_iguana	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Eumeces_egregius	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Sphenodon_punctatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3472
Sceloporus_occidentalis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Cordylus_warreni	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3484
Abronia_graminea	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Shinisaurus_crocodilurus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3475
Varanus_komodoensis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3526
Rhineura_floridana	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3466
Geocalamus_acutus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3451
Diplometopon_zarudnyi	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3451
Amphisbaena_schmidti	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3457
Bipes_tridactylus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3448
Bipes_canaliculatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3448
Bipes_biporus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3451
Anolis_carolinensis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3474
Ophisaurus_atnuatus	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3476
Varanus_salvator	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3522
Mertensiella_luschani	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3487
Xenopus_laevis	:	CCGAAG	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	: 3481











		*	4140	*	4160	*	4180	*	4200	*	4220	*	4240	*	
Bos_taurus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3935
Hylobates_lar	:	---	---	---	---	---	---	---	G	---	G	---	G	---	3941
Lemur_catta	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3941
Nycticebus_coucang	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3938
Tarsius_bancanus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3938
Gorilla_gorilla	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3941
Homo_sapiens	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3938
Papio_hamadryas	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3941
Cebus_albifrons	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3947
Macaca_sylvanus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3938
Pongo_pygmaeus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3941
Pan_paniscus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3941
Agkistrodon_piscivorus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3939
Pantherophis_guttatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3933
Dinodon_semicarinatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3933
Boa_constrictor	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3942
Python_regius	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3945
Acrochordus_granulatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3942
Cylindrophis_ruffus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3903
Ovophis_okinavensis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3939
Xenopeltis_unicolor	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3945
Typhlops_reticulatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3863
Leptotyphlops_dulcis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3879
Caiman_crocodilus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3947
Alligator_sinensis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3965
Alligator_mississippiensis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Gavialis_gangeticus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3950
Crocodylus_moreletii	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3926
Dogania_subplana	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3902
Pelomedusa_subrufa	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3920
Chrysemys_picta	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3938
Chelonia_mydas	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3935
Tinamus_major	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3920
Smithornis_sharpei	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Corvus_frugilegus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Vidua_chalybeata	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Buteo_buteo	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Falco_peregrinus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Dromaius_novaehollandiae	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3920
Struthio_camelus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3923
Apteryx_haastii	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3920
Rhea_americana	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3923
Gallus_gallus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3914
Ciconia_ciconia	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Ciconia_boyciana	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Iguana_iguana	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Eumeces_egregius	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3920
Sphenodon_punctatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Sceloporus_occidentalis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3917
Cordylus_warreni	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3929
Abronia_graminea	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3914
Shinisaurus_crocodilurus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3914
Varanus_komodoensis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3965
Rhineura_floridana	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3911
Geocalamus_acutus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3896
Diplometopon_zarudnyi	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3896
Amphisbaena_schmidti	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3905
Bipes_tridactylus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3893
Bipes_canaliculatus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3893
Bipes_biporus	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3896
Anolis_carolinensis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3916
Ophisaurus_atnuntius	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3915
Varanus_salvator	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3958
Mertensiella_luschani	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3932
Xenopus_laevis	:	---	---	---	---	---	---	---	A	---	A	---	A	---	3923

```

4260      *      4280      *      4300      *      4320      *      4340      *      4360      *      4380
Bos_taurus      : GGCCTCCGCCCCAAGAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4068
Hylobates_lar  : GGCCTCCGCCCCAAGAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Lemur_catta    : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Nycticebus_coucang : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Tarsius_bancanus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Gorilla_gorilla : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Homo_sapiens   : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Papio_hamadryas : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Cebus_albifrons : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4080
Macaca_sylvanus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Pongo_pygmaeus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Pan_paniscus   : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Agkistrodon_piscivorus : -CTAATCCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Pantherophis_guttatus : -CCCTAACCAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4065
Dinodon_semicarinatus : -AATTCGCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4065
Boa_constrictor : -CAATTCGCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Python_regius  : -CAATTCGCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4077
Acrochordus_granulatus : -CAATTCGCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4074
Cylindrophis_ruffus : -TAACTCCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4035
Ovophis_okinavensis : -CCTAACCAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Xenopeltis_unicolor : -CAATTCGCGAGAGGAAACAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4077
Typhlops_reticulatus : AGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 3996
Leptotyphlops_dulcis : AGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4012
Caiman_crocodilus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4080
Alligator_sinensis : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4098
Alligator_mississippiensis : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Gavialis_gangeticus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4083
Crocodylus_moreletii : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4059
Dogania_subplana : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4035
Pelomedusa_subrufa : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4053
Chrysemys_picta : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4071
Chelonia_mydas : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4068
Tinanus_major : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4053
Smithornis_sharpei : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Corvus_frugilegus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Vidua_chalybeata : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Buteo_buteo    : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Falco_peregrinus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Dromaius_novaeollandiae : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4053
Struthio_camelus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4056
Apteryx_haastii : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4053
Rhea_americanana : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4056
Gallus_gallus  : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4047
Ciconia_ciconia : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Ciconia_boyciiana : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Iguana_iguana  : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Fumeces_egregius : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4053
Sphenodon_punctatus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Sceloporus_occidentalis : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4050
Cordylus_warreni : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4062
Abronia_graminea : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4047
Shinisaurus_crocodilurus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4047
Varanus_komodoensis : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4098
Rhineura_floridana : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4044
Geocalamus_acutus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4029
Diplometopon_zarudnyi : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4029
Amphisbaena_schmidti : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4038
Bipes_tridactylus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4026
Bipes_canaliculatus : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4026
Bipes_biporus  : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4029
Anolis_carolinensis : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4049
Ophisaurus_atnuatus : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4048
Varanus_salvator : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4091
Mertensiella_luschani : TGACCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4065
Xenopus_laevis : GGCCTCCCAACCCATCCAAACATTCAGAGGAAATTTGGGCTCCGGGAACTGGTAAACCCAAACCCACCGGCCATTCAGCAAAACACACCGGACAAACACAGCCATT : 4056

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	*	4400	*	4420	*	4440	*	4460	*	4480	*	4500	*	4520	
Bos_taurus	:	CC	AG	TC	CC	AT	TC	GC	GAG	GC	GAA	T	CG	GC	4201
Hylobates_lar	:	CA	AG	AG	T	AC	AT	GC	GAG	GC	AAA	CT	CG	GC	4207
Lemur_catta	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Nycticebus_coucang	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Tarsius_bancanus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Gorilla_gorilla	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Homo_sapiens	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Papio_hamadryas	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Cebus_albifrons	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4213
Macaca_sylvanus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Pongo_pygmaeus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Pan_paniscus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Agkistrodon_piscivorus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Pantherophis_guttatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4198
Dinodon_semicarinatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4198
Boa_constrictor	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Python_regius	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4210
Acrochordus_granulatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4207
Cylindrophis_ruffus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4168
Ovophis_okinavensis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Xenopeltis_unicolor	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4210
Typhlops_reticulatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4129
Leptotyphlops_dulcis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4145
Caiman_crocodilus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4213
Alligator_sinensis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4231
Alligator_mississippiensis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Gavialis_gangeticus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4216
Crocodylus_moreletii	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4192
Dogania_subplana	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4168
Pelomedusa_subrufa	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4186
Chrysemys_picta	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4204
Chelonia_mydas	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4201
Tinamus_major	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4186
Smithornis_sharpei	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Corvus_frugilegus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Vidua_chalybeata	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Buteo_buteo	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Falco_peregrinus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Dromaius_novaehollandiae	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4186
Struthio_camelus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4189
Apteryx_haastii	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4186
Rhea_americanus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4189
Gallus_gallus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4180
Ciconia_ciconia	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Ciconia_boycciana	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Iguana_iguana	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Eumeces_egregius	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4186
Sphenodon_punctatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Sceloporus_occidentalis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4183
Cordylus_warreni	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4195
Abronia_graminea	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4180
Shinisaurus_crocodilurus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4180
Varanus_komodoensis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4231
Rhineura_floridana	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4177
Geocalamus_acutus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4162
Diplometopon_zarudnyi	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4162
Amphisbaena_schmidti	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4171
Bipes_tridactylus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4159
Bipes_canaliculatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4159
Bipes_biporus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4162
Anolis_carolinensis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4182
Ophisaurus_atnuatus	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4181
Varanus_salvator	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4224
Mertensiella_luschani	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4198
Xenopus_laevis	:	TC	CC	CG	TC	CC	AT	TC	GC	GAG	GC	AAA	CT	CG	4189











	5060	*	5080	*	5100	*	5120	*	5140	*	5160	*	5180	
Bos_taurus	:	AACAAAC	TGGGGG	AAAGCC	AGCC	CTCC	CAAC	AAATCC	CAAG	CAAA	AAAG	CAAT	CGG	4866
Hylobates_lar	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Lemur_catta	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Nycticebus_coucang	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Tarsius_bancanus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Gorilla_gorilla	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Homo_sapiens	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Papio_hamadryas	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Cebus_albifrons	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4878
Macaca_sylvanus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Pongo_pygmaeus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Pan_paniscus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Agkistrodon_piscivorus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Pantherophis_guttatus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4863
Dinodon_semicarinatus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4863
Boa_constrictor	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Python_regius	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4875
Acrochordus_granulatus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4872
Cylindrophis_ruffus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4833
Ovophis_okinavensis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Xenopeltis_unicolor	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4875
Typlops_reticulatus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4794
Leptotyphlops_dulcis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4810
Caiman_crocodilus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4878
Alligator_sinensis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4896
Alligator_mississippiensis	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Gavialis_gangeticus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4881
Crocodylus_moreletii	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4857
Dogania_subplana	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4833
Pelomedusa_subrufa	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851
Chrysemys_picta	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4869
Chelonia_mydas	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4866
Tinanus_major	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851
Smithornis_sharpei	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Corvus_frugilegus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Vidua_chalybeata	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Buteo_buteo	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Falco_peregrinus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Dromaius_novaeollandiae	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851
Struthio_camelus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4854
Apteryx_haastii	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851
Rhea_american	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4854
Gallus_gallus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4845
Ciconia_ciconia	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Ciconia_boyciana	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Iguana_iguana	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Fumeca_egregius	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851
Sphenodon_punctatus	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Sceloporus_occidentalis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4848
Cordylus_warreni	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4860
Abronia_graminea	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4845
Shinisaurus_crocodilurus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4845
Varanus_komodoensis	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4896
Rhineura_floridana	:	AATAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4842
Geocalamus_acutus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4827
Diplometopon_zarudnyi	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4827
Amphisbaena_schmidti	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4836
Bipes_tridactylus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4824
Bipes_canaliculatus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4824
Bipes_biporus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4827
-----	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-
Anolis_carolinensis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4889
Ophisaurus_attuatus	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4863
Varanus_salvator	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4889
Mertensiella_luschani	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4863
Xenopus_laevis	:	AACAAAC	TGGGGG	CACTAG	CCGC	CTAC	TAACA	CCCA	CAAG	CAAC	CAAG	CAAT	CGG	4851



	*	5200	*	5220	*	5240	*	5260	*	5280	*	5300	*	5320	
Bos_taurus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4987
Hylobates_lar	:	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	: 4993
Lemur_catta	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Nycticebus_coucang	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Tarsius_bancanus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Gorilla_gorilla	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Homo_sapiens	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Papio_hamadryas	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Cebus_albifrons	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4996
Macaca_sylvanus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Pongo_pygmaeus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Pan_paniscus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Agkistrodon_piscivorus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4987
Pantherophis_guttatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4981
Dinodon_semicarinatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4981
Boa_constrictor	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Python_regius	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Acrochordus_granulatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Cylindrophis_ruffus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4951
Ovophis_okinavensis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4987
Xenopeltis_unicolor	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4993
Typhlops_reticulatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4915
Leptotyphlops_dulcis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4931
Caiman_crocodilus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4999
Alligator_sinensis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 5017
Alligator_mississippiensis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Gavialis_gangeticus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 5002
Crocodylus_moreletii	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4978
Dogania_subplana	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4954
Pelomedusa_subrufa	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972
Chrysemys_picta	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4990
Chelonia_mydas	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4987
Tinamus_major	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972
Smithornis_sharpei	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Corvus_frugilegus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Vidua_chalybeata	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Buteo_buteo	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Falco_peregrinus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972
Dromaius_novaeollandiae	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4975
Struthio_camelus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972
Apteryx_haastii	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4975
Rhea_americanana	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4966
Gallus_gallus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Ciconia_ciconia	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Ciconia_boyciana	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Iguana_iguana	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972
Eumeces_egregius	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Sphenodon_punctatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Sceloporus_occidentalis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4969
Cordylus_warreni	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4981
Abronia_graminea	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4966
Shinisaurus_crocodilurus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4966
Varanus_komodoensis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 5017
Rhineura_floridana	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4963
Geocalamus_acutus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4948
Diplometopon_zarudnyi	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4948
Amphisbaena_schmidti	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4957
Bipes_tridactylus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4945
Bipes_canaliculatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4945
Bipes_biporus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4948
Anolis_carolinensis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: -
Ophisaurus_attuatus	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: -
Varanus_salvator	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 5010
Mertensiella_luschani	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4984
Xenopus_laevis	:	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	: 4972

		*	5340	*	5360	*	5380	*	5400	*	5420	*	5440	*	
Bos_taurus	:	G	C	C	A	A	A	A	A	A	A	A	A	A	5039
Hylobates_lar	:	C	C	T	A	T	G	A	A	A	A	A	A	A	5048
Lemur_catta	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5045
Nycticebus_coucang	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5042
Tarsius_bancanus	:	A	C	C	A	T	G	A	A	A	A	A	A	A	5042
Gorilla_gorilla	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5048
Homo_sapiens	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5039
Papio_hamadryas	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5048
Cebus_albifrons	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5048
Macaca_sylvanus	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5045
Pongo_pygmaeus	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5048
Pan_paniscus	:	C	C	C	A	T	G	A	A	A	A	A	A	A	5048
Agkistrodon_piscivorus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5057
Pantherophis_guttatus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5057
Dinodon_semicarinatus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5057
Boa_constrictor	:	G	G	G	G	G	G	A	A	A	A	A	A	A	5063
Python_regius	:	G	G	G	A	T	G	A	A	A	A	A	A	A	5063
Acrochordus_granulatus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5060
Cylindrophis_ruffus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5027
Ovophis_okinavensis	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5057
Xenopeltis_unicolor	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5066
Typhlops_reticulatus	:	C	C	C	A	T	G	A	A	A	A	A	A	A	4991
Leptotyphlops_dulcis	:	C	C	C	T	A	T	G	A	A	A	A	A	A	5010
Caiman_crocodilus	:	G	G	G	C	C	T	A	T	G	A	A	A	A	5069
Alligator_sinensis	:	G	A	C	C	T	A	T	G	A	A	A	A	A	5099
Alligator_mississippiensis	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5048
Gavialis_gangeticus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5117
Crocodylus_moreletii	:	G	A	A	T	G	A	A	A	A	A	A	A	A	5093
Dogania_subplana	:	A	C	C	T	A	T	G	A	A	A	A	A	A	5018
Pelomedusa_subrufa	:	C	A	C	T	A	T	G	A	A	A	A	A	A	5036
Chrysemys_picta	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5054
Chelonia_mydas	:	G	A	A	T	G	A	A	A	A	A	A	A	A	5057
Tinamus_major	:	G	A	C	C	T	A	T	G	A	A	A	A	A	5033
Smithornis_sharpei	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5039
Corvus_frugilegus	:	G	G	C	T	A	T	G	A	A	A	A	A	A	5042
Vidua_chalybeata	:	G	G	C	T	A	T	G	A	A	A	A	A	A	5042
Buteo_buteo	:	G	G	C	T	A	T	G	A	A	A	A	A	A	5042
Falco_peregrinus	:	G	G	C	T	A	T	G	A	A	A	A	A	A	5042
Dromaius_novaeollandiae	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5039
Struthio_camelus	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5042
Apteryx_haastii	:	G	G	C	T	A	T	G	A	A	A	A	A	A	5039
Rhea_americana	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5042
Gallus_gallus	:	G	A	C	C	T	A	T	G	A	A	A	A	A	5039
Ciconia_ciconia	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5042
Ciconia_boyciana	:	G	G	C	C	T	A	T	G	A	A	A	A	A	5042
Iguana_iguana	:	C	C	C	T	A	T	G	A	A	A	A	A	A	5036
Eumeces_egregius	:	C	A	A	T	G	A	A	A	A	A	A	A	A	5039
Sphenodon_punctatus	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5036
Sceloporus_occidentalis	:	C	A	C	T	A	T	G	A	A	A	A	A	A	5036
Cordylus_warreni	:	C	A	A	T	G	A	A	A	A	A	A	A	A	5048
Abronia_graminea	:	G	C	T	A	T	G	A	A	A	A	A	A	A	5033
Shinisaurus_crocodilurus	:	G	C	T	A	T	G	A	A	A	A	A	A	A	5027
Varanus_komodoensis	:	A	C	C	T	A	T	G	A	A	A	A	A	A	5078
Rhineura_floridana	:	C	C	C	T	A	T	G	A	A	A	A	A	A	5021
Geocalamus_acutus	:	C	A	C	T	A	T	G	A	A	A	A	A	A	5012
Diplometopon_zarudnyi	:	C	A	C	T	A	T	G	A	A	A	A	A	A	5018
Amphisbaena_schmidti	:	C	A	C	T	A	T	G	A	A	A	A	A	A	5018
Bipes_tridactylus	:	C	G	C	C	T	A	T	G	A	A	A	A	A	5009
Bipes_canaliculatus	:	C	C	C	C	T	A	T	G	A	A	A	A	A	5021
Bipes_biporus	:	C	A	C	C	T	A	T	G	A	A	A	A	A	5060
Anolis_carolinensis	:	A	C	C	C	T	A	T	G	A	A	A	A	A	4710
Ophisaurus_attnuatus	:	A	C	C	C	T	A	T	G	A	A	A	A	A	4665
Varanus_salvator	:	A	C	C	C	T	A	T	G	A	A	A	A	A	5071
Mertensiella_luschani	:	G	C	C	T	A	T	G	A	A	A	A	A	A	5051
Xenopus_laevis	:	G	T	G	T	G	A	A	A	A	A	A	A	A	5039

		5460	*	5480	*	5500	*	5520	*	5540	*	5560	*	5580	
Bos_taurus	:	ACAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTCCGAAAAGGCCAAATGCGTAGGG	---	CAATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Hylobates_lar	:	CCATCCATCCCAACCCCAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Lemur_catta	:	ACAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTCCGAAAAGGCCAAATGCGTAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5175									
Nycticebus_coucang	:	GGCGAATCCCGGAAATAGTAGCCATAGATCTTACACCCCTAGAGAGAAAATCTAGGCTATATACAACTCCGAAAAGGCCAAATGCGTAGGG	---	CCAAACGGCCCTACTCAACCCATGGCGGAT	:	5172									
Tarsius_bancanus	:	CCAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTCCGAAAAGGCCAAATGCGTAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Gorilla_gorilla	:	CCAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Homo_sapiens	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Papio_hamadryas	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Cebus_albifrons	:	ACAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTCCGAAAAGGCCAAATGCGTAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Macaca_sylvanus	:	CCAAATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5175									
Pongo_pygmaeus	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Pan_paniscus	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Agkistrodon_piscivorus	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5187									
Pantherophis_guttatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5187									
Dinodon_semicarinatus	:	CCCAATGTAACCCATCCAAATGGCAATGCAATCTAACTTAACCGAAGAAAATCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5187									
Boa_constrictor	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5193									
Python_regius	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5193									
Acrochordus_granulatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5190									
Cylindrophis_ruffus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5157									
Ovophis_okinavensis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5187									
Xenopeltis_unicolor	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5196									
Typhlops_reticulatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5121									
Leptotyphlops_dulcis	:	GTATATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5140									
Caiman_crocodilus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5199									
Alligator_sinensis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5229									
Alligator_mississippiensis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Gavialis_gangeticus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5247									
Crocodylus_moreletii	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5223									
Dogania_subplana	:	GTATATACCCATCCAAATGGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5148									
Pelomedusa_subrufa	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5166									
Chrysemys_picta	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5184									
Chelonia_mydas	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5187									
Tinanus_major	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5163									
Smithornis_sharpei	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Corvus_frugilegus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Vidua_chalybeata	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Buteo_buteo	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Falco_peregrinus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Dromaius_novaeollandiae	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Struthio_camelus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Apteryx_haastii	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Rhea_americanana	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Gallus_gallus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Ciconia_ciconia	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Ciconia_boyciiana	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5172									
Iguana_iguana	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5166									
Fumeces_egregius	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									
Sphenodon_punctatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5166									
Sceloporus_occidentalis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5166									
Cordylus_warreni	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5178									
Abronia_graminea	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5163									
Shinisaurus_crocodilurus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5157									
Varanus_komodoensis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5208									
Rhineura_floridana	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5151									
Geocalamus_acutus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5142									
Diplometopon_zarudnyi	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5148									
Amphisbaena_schmidti	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5148									
Bipes_tridactylus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5139									
Bipes_canaliculatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5151									
Bipes_biporus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5190									
Anolis_carolinensis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	4840									
Ophisaurus_atnuatus	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	4795									
Varanus_salvator	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5201									
Mertensiella_luschani	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5181									
Xenopus_laevis	:	ATACATTTATCAATCTTATGCGCGGAGCATTCCTACGCTAGCGGAAAGANAAGTCTAGGCTATATACAACTAGCAAAGGCCCAACCTAGAGGG	---	CCATGGCCCTACTCAACCCATGGCGGAT	:	5169									

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*      5600      *      5620      *      5640      *      5660      *      5680      *      5700      *      572
Bos_taurus      : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Hylobates_lar  : GCATCAAAAGTCTTACCAAAAGAACCCCAAAACAAATACCAACCAACCGCCCTATATATCAAGCCCAACCTTAGCCCTATCCATGAAACCCCAACCCCAACCCCAACCCCAAC  5311
Lemur_catta    : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5308
Nycticebus_coucang : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Tarsius_bancanus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Gorilla_gorilla : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Homo_sapiens   : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Papio_hamadryas : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Cebus_albifrons : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Macaca_sylvanus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5308
Pongo_pygmaeus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Pan_paniscus   : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Agkistrodon_piscivorus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5320
Pantherophis_guttatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5320
Dinodon_semicarinatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5320
Boa_constrictor : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5326
Python_regius  : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5326
Acrochordus_granulatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5323
Chelonephorus_ruffus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5290
Ovophis_okinavensis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5320
Xenopeltis_unicolor : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5329
Typhlops_reticulatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5254
Leptotyphlops_dulcis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5273
Caiman_crocodilus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5332
Alligator_sinensis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5362
Alligator_mississippiensis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Gavialis_gangeticus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5380
Crocodylus_moreletii : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5356
Dogania_subplana : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5281
Pelomedusa_subrufa : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5299
Chrysemys_picta : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5317
Chelonia_mydas : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5320
Tinamus_major : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5296
Smithornis_sharpei : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Corvus_frugilegus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Vidua_chalybeata : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Buteo_buteo    : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Falco_peregrinus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Dromaius_novaeollandiae : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Struthio_camelus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Apteryx_haastii : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Rhea_americanana : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Gallus_gallus  : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Ciconia_ciconia : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Ciconia_boyciiana : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5305
Iguana_iguana  : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5299
Fumecea_egregius : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302
Sphenodon_punctatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5299
Sceloporus_occidentalis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5299
Cordylus_warreni : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5311
Abronia_graminea : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5296
Shinisaurus_crocodilurus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5290
Varanus_komodoensis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5341
Rhinoceros_floridana : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5284
Geocalamus_acutus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5275
Diplometopon_zarudnyi : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5281
Amphisbaena_schmidti : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5281
Bipes_tridactylus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5272
Bipes_canaliculatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5284
Bipes_biporus  : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5323
Anolis_carolinensis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  4973
Ophisaurus_atnuatus : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  4928
Varanus_salvator : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5334
Mertensiella_luschani : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5314
Xenopus_laevis : GCATCAAAATTTATTAAGAGCAATCGCCCGCTACATCTGCGCAATATATGACAGCAACAAATAGTATAGGCCATAGCCCTAAACCAAGTGAATCCCAACCAATCCCTATCCCTAT  5302

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Bos\_taurus : CCAATAAACCTAGGAGCCATATTATAGCCAAAGCCAGCCGATACCCATGATGATAGGCAGGCTCCAAACAAAATAGGCNCTAAAGGGAGCCACGAGAGTAGCCAAAACAA : 5435  
Hylobates\_lar : TCAACCTAACTGGGCTCCATTTATCTGGCTACCTAGCCATACGGCTACCTCCATCCATGATAGGAGGAGCATCAACTAACTAGGCCAATGGGGCCCTGGAGAGTAGCCAAAACAA : 5444  
Lemur\_catta : TCAATATAAACCTAGGAGCTTTATTATCTAGCCACCCTAGCCATAGCCGTAATCTCAATCTATGATAGGCAGGCTCCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5441  
Nycticebus\_coucang : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Tarsius\_bancanus : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Gorilla\_gorilla : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Homo\_sapiens : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Papio\_hamadryas : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Cebus\_albifrons : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Macaca\_sylvanus : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5441  
Pongo\_pygmaeus : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Pan\_paniscus : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Agkistrodon\_piscivorus : CCAATATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5453  
Pantherophis\_guttatus : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5453  
Dinodon\_semicarinatus : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5453  
Boa\_constrictor : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5459  
Python\_regius : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5459  
Acrochordus\_granulatus : CCGACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5456  
Cylindrophis\_ruffus : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5423  
Ovophis\_okinavensis : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5453  
Xenopeltis\_unicolor : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5462  
Typhlops\_reticulatus : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5387  
Leptotyphlops\_dulcis : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5406  
Caiman\_crocodilus : TCAACCTAACTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5465  
Alligator\_sinensis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5495  
Alligator\_mississippiensis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Gavialis\_gangeticus : CCAACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5513  
Crocodylus\_moreletii : CCAACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5489  
Dogania\_subplana : CCAACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5414  
Pelomedusa\_subrufa : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5432  
Chrysemys\_picta : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5450  
Chelonia\_mydas : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5453  
Tinamus\_major : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5429  
Smithornis\_sharpei : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Corvus\_frugilegus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Vidua\_chalybeata : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Buteo\_buteo : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Falco\_peregrinus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Dromaius\_novaeollandiae : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Struthio\_camelus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Apteryx\_haastii : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Rhea\_americanana : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Gallus\_gallus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Ciconia\_ciconia : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Ciconia\_boyciniana : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5438  
Iguana\_iguana : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5432  
Fumeaces\_egregius : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435  
Sphenodon\_punctatus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5432  
Sceloporus\_occidentalis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5432  
Abronia\_graminea : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5444  
Shinisaurus\_crocodilurus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5423  
Varanus\_komodoensis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5474  
Rhineura\_floridana : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5417  
Geocalamus\_acutus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5408  
Diplometopon\_zarudnyi : CCAACATAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5414  
Amphisbaena\_schmidti : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5414  
Bipes\_tridactylus : CCAACCTAAATAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5405  
Bipes\_banaliculatus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5417  
Bipes\_biporus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5456  
Anolis\_carolinensis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5106  
Ophisaurus\_atnuatus : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5061  
Varanus\_salvator : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5467  
Mertensiella\_luschani : CCAACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5447  
Xenopus\_laevis : CCGACCTAAACCTAGGAGCTTTATTATCTAGCCACCTAGCCATAGCCGTAATCTCAATCTATGATAGGAGGAGCATCAACTAAAATAGGCTTTAAATGGAGCCCTACGAGAGTAGCCAAAACAA : 5435



	*	6000	*	6020	*	6040	*	6060	*	6080	*	6100	*	61
Bos_taurus	:	CGATTACCTCAACACTAGCAGAAACAAACCGGCGCCCATTTGACCTTAAAGAGAGGAGAAATNGAGTAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGAGTAC	:	5701										
Hylobates_lar	:	TGATTATCTCAACACTAGCAGAAACAAACCGAAGCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Lemur_catta	:	TGATTATCTCAACACTAGCAGAAACAAACCGGCCCCATTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5707										
Nycticebus_coucang	:	TGATTATCTCAACACTAGCAGAAACAAACCGGCTCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Tarsius_bancanus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Gorilla_gorilla	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Homo_sapiens	:	TGATTATCTCAACACTAGCAGAAACAAACCGAAGCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Papio_hamadryas	:	TGATTATCTCAACACTAGCAGAAACAAACCGAAGCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Cebus_albifrons	:	TGATTATCTCAACACTAGCAGAAACAAACCGGAGCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Macaca_sylvanus	:	TGATTATCTCAACACTAGCAGAAACAAACCGAAGCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5707										
Pongo_pygmaeus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Pan_paniscus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Agkistrodon_piscivorus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5719										
Pantherophis_guttatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5719										
Dinodon_semicarinatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5719										
Boa_constrictor	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5725										
Python_regius	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5725										
Acrochordus_granulatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5722										
Cylindrophis_ruffus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5689										
Ovophis_okinavensis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5719										
Xenopeltis_unicolor	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5728										
Typhlops_reticulatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5653										
Leptotyphlops_dulcis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5672										
Caiman_crocodilus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5731										
Alligator_sinensis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5761										
Alligator_mississippiensis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Gavialis_gangeticus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5779										
Crocodylus_moreletii	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5755										
Dogania_subplana	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5680										
Pelomedusa_subrufa	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5698										
Chrysemys_picta	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5716										
Chelonia_mydas	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5719										
Tinamus_major	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5695										
Smithornis_sharpei	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Corvus_frugilegus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Vidua_chalybeata	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Buteo_buteo	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Falco_peregrinus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Dromaius_novaeollandiae	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Struthio_camelus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Apteryx_haastii	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Rhea_americanana	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Gallus_gallus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Ciconia_ciconia	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Ciconia_boyciiana	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5704										
Iguana_iguana	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5698										
Eumeces_egregius	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										
Sphenodon_punctatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5698										
Sceloporus_occidentalis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5698										
Cordylus_warreni	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5710										
Abronia_graminea	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5695										
Shinisaurus_crocodilurus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5689										
Varanus_komodoensis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5740										
Rhineura_floridana	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5683										
Geocalamus_acutus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5674										
Diplometopon_zarudnyi	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5680										
Amphisbaena_schmidti	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5680										
Bipes_tridactylus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5671										
Bipes_canaliculatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5683										
Bipes_biporus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5722										
Anolis_carolinensis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5371										
Ophisaurus_atnuatus	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5327										
Varanus_salvator	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5732										
Mertensiella_luschani	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5713										
Xenopus_laevis	:	TGATTATCTCAACACTAGCAGAAACAAACCGGACCCCTTTGACCTTAAAGAGAGGAGAAATNGAATAGTCTGGGCTCAACCTAGAAATAGACAGGACCAATGGCCCTATTTCTATAGAGAGTAC	:	5701										



	20	*	6140	*	6160	*	6180	*	6200	*	6220	*	6240	*						
Bos_taurus	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5831	
Hylobates_lar	:	TAAACAT	CAATTA	GATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5840
Lemur_catta	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5837
Nycticebus_coucang	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Tarsius_bancanus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Gorilla_gorilla	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5840	
Homo_sapiens	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5831	
Papio_hamadryas	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5840	
Cebus_albifrons	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5840	
Macaca_sylvanus	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5837	
Pongo_pygmaeus	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5840	
Pan_paniscus	:	GAAGATTA	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5840	
Agkistrodon_piscivorus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5843
Pantherophis_guttatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5843
Dinodon_semicarinatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5843
Boa_constrictor	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5852
Python_regius	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5849
Acrochordus_granulatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5846
Cylindrophis_ruffus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5816
Ovophis_okinavensis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5843
Xenopeltis_unicolor	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5855
Typlops_reticulatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5780
Leptotyphlops_dulcis	:	GTAGCAT	CAATAA	AAATTA	CGAATTTA	CCAGGAAC	CCCNCA	AGCAG	CAAGAA	CTTACA	AAATTA	TACCA	TAAA	CCCTG	GCACAA	TAA	CCCTTA	G	5799	
Caiman_crocodilus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5861
Alligator_sinensis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5891
Alligator_mississippiensis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5840
Gavialis_gangeticus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5909
Crocodylus_moreletii	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5885
Dogania_subplana	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5807
Pelomedusa_subrufa	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5828
Chrysemys_picta	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5846
Chelonia_mydas	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5849
Tinanus_major	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5825
Smithornis_sharpei	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5831
Corvus_frugilegus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Vidua_chalybeata	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Buteo_buteo	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Falco_peregrinus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Dromaius_novaeollandiae	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5831
Struthio_camelus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Apteryx_haastii	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5831
Rhea_american	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Gallus_gallus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5831
Ciconia_ciconia	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Ciconia_boyciana	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Iguana_iguana	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5822
Eumeces_egregius	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5828
Sphenodon_punctatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5825
Sceloporus_occidentalis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5825
Cordylus_warreni	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5834
Abronia_graminea	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5822
Shinisaurus_crocodilurus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5816
Varanus_komodoensis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5867
Rhineura_floridana	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5810
Geocalamus_acutus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5798
Diplometopon_zarudnyi	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5807
Amphisbaena_schmidti	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5807
Bipes_tridactylus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5795
Bipes_canaliculatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5807
Bipes_biporus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5849
Anolis_carolinensis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5495
Ophisaurus_atnuatus	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5454
Varanus_salvator	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5859
Mertensiella_luschani	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5843
Xenopus_laevis	:	CGAACAT	CAATTA	TAATAAA	GGCCCA	AC	CCAT	AACTT	CGGG	TACC	CAAC	CCAA	CCG	CCG	CCG	CCG	CCG	CCG	CCG	5831

Table with 3 columns: Species Name, Multiple Sequence Alignment (with position markers 6260, 6280, 6300, 6320, 6340, 6360, 6380), and Line Number (5958-5988). The alignment shows conserved regions across various species.

	*	6400	*	6420	*	6440	*	6460	*	6480	*	6500	*	6	
Bos_taurus	:	CCACCAACCA	-----	AAACCCAAATAC	-----	AAACCAACATATA	-----	AGGAAACATATA	-----	GCACCAACAG	-----	GCACCAACAG	-----	GGGCTAGNAATAA	: 6076
Hylobates_lar	:	CCCCACGACC	-----	ATTAACCCCAAG	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Lemur_catta	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6082
Nycticebus_coucang	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Tarsius_bancanus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Gorilla_gorilla	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Homo_sapiens	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6076
Papio_hamadryas	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Cebus_albifrons	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Macaca_sylvanus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6082
Pongo_pygmaeus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Pan_paniscus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Agkistrodon_piscivorus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Pantherophis_guttatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Dinodon_semicarinatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Boa_constrictor	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6094
Python_regius	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6091
Acrochordus_granulatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6088
Cylindrophis_ruffus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6058
Ovophis_okinavensis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6085
Xenopeltis_unicolor	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6097
Typhlops_reticulatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6022
Leptotyphlops_dulcis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6044
Caiman_crocodilus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6103
Alligator_sinensis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6133
Alligator_mississippiensis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6082
Gavialis_gangeticus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6148
Crocodylus_moreletii	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6124
Dogania_subplana	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6052
Pelomedusa_subrufa	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6073
Chrysemys_picta	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6091
Chelonia_mydas	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6094
Tinamus_major	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6070
Smithornis_sharpei	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Corvus_chalybeatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Vidua_chalybeata	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Buteo_buteo	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Falco_peregrinus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6076
Dromaius_novaeollandiae	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6073
Struthio_camelus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Apteryx_haastii	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6076
Rhea_americanus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Gallus_gallus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6073
Ciconia_ciconia	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Ciconia_boyciniana	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Iguana_iguana	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6067
Eumeces_egregius	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6070
Sphenodon_punctatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6070
Sceloporus_occidentalis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6070
Cordylus_warreni	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6079
Abronia_graminea	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6070
Shinisaurus_crocodilurus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6058
Varanus_komodoensis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6112
Rhineura_floridana	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6052
Geocalamus_acutus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6043
Diplometopon_zarudnyi	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6052
Amphisbaena_schmidti	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6052
Bipes_tridactylus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6040
Bipes_canaliculatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6052
Bipes_biporus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6094
Anolis_carolinensis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 5736
Ophisaurus_atnuatus	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 5696
Varanus_salvator	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6104
Mertensiella_luschani	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6088
Xenopus_laevis	:	CCCCACGACC	-----	AAAAACCAACCA	-----	CAACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	CCACCAACCAAC	-----	GGGCTAGNAATAA	: 6076



	6660	*	6680	*	6700	*	6720	*	6740	*	6760	*	6780	
Bos_taurus	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6333								
Hylobates_lar	: AACTTCGGGGCGGAACTATAGC	: AACATCCAAACAAATATTA	: AACAAATAATAATAGCCCG	: GGATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Lemur_catta	: AAACCTCGGGCAAGGAACTAAAT	: AAATATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6339								
Nycticebus_coucang	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Tarsius_bancanus	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Gorilla_gorilla	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Homo_sapiens	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6333								
Papio_hamadryas	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6345								
Cebus_albifrons	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Macaca_sylvanus	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6339								
Pongo_pygmaeus	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Pan_paniscus	: AATCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Agkistrodon_piscivorus	: AAATACCTCAAACTGAGAAATTA	: CTCAAAACGAAACCAACAA	: CAAATAAAAAATTAAGCC	: GGGTAAAGCCCAAGGG	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Pantherophis_guttatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Dinodon_semicarinatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Boa_constrictor	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6351								
Python_regius	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6348								
Acrochordus_granulatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6345								
Cylindrophis_ruffus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6315								
Ovophis_okinavensis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Xenopeltis_unicolor	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6354								
Typhlops_reticulatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6279								
Leptotyphlops_dulcis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6301								
Caiman_crocodilus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6360								
Alligator_sinensis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6390								
Alligator_mississippiensis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6339								
Gavialis_gangeticus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6405								
Crocodylus_moreletii	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6381								
Dogania_subplana	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6309								
Pelomedusa_subrufa	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6330								
Chrysemys_picta	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6348								
Chelonia_mydas	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6351								
Tinamus_major	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6327								
Smithornis_sharpei	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Corvus_frugilegus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Vidua_chalybeata	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Buteo_buteo	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Falco_peregrinus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6333								
Dromaius_novaeollandiae	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6330								
Struthio_camelus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Apteryx_haastii	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6333								
Rhea_americanana	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Gallus_gallus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6330								
Ciconia_ciconia	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Ciconia_boyciana	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Iguana_iguana	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6324								
Fumeces_egregius	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6327								
Sphenodon_punctatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6327								
Sceloporus_occidentalis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6327								
Cordylus_warreni	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6336								
Abronia_graminea	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6327								
Varanus_komodoensis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6315								
Varanus_crocodilurus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6369								
Rhineura_floridana	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6309								
Geocalamus_acutus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6300								
Diplometopon_zarudnyi	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6309								
Amphisbaena_schmidti	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6309								
Bipes_tridactylus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6297								
Bipes_capaliculatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6309								
Bipes_banalis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6351								
Anolis_carolinensis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 5993								
Ophisaurus_atnuatus	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 5952								
Varanus_salvator	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6361								
Mertensiella_luschani	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6342								
Xenopus_laevis	: AAACCTCGGGCAAGGAACTAAAT	: AAACATATTAACCCNAAGCC	: CAATATATTAAGCAATAGCC	: AGTATAAAAAAGGNAAGCCCA	: TTCTGGATCCCGAAGAAACAGGG	: 6333								

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*          6800          *          6820          *          6840          *          6860          *          6880          *          6900          *
Bos_taurus           : ATCCCTCATTCCAGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6466
Hylobates_lar       : ACTACCCATAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Lemur_catta         : ATTTCACATATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6472
Nycticebus_coucang  : ATCTACTATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Tarsius_bancanus    : GATACATATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Gorilla_gorilla     : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Homo_sapiens        : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6466
Papio_hamadryas     : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6478
Cebus_albifrons     : ATTCCCGATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Macaca_sylvanus     : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6472
Pongo_pygmaeus      : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Pan_paniscus        : ACCCGCCATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Agkistrodon_piscivorus : GATAAACCCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Pantherophis_guttatus : ACNACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Dinodon_semicarinatus : ACNACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Boa_constrictor     : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6484
Python_regius       : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6481
Acrochordus_granulatus : ACNACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6478
Cylindrophis_ruffus : GCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6448
Ovophis_okinavensis : GCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Xenopeltis_unicolor : GCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6487
Typhlops_reticulatus : GTCACACAAAATAGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6412
Leptotyphlops_dulcis : GCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6434
Caiman_crocodilus   : ATTACCAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6493
Alligator_sinensis  : ATTACCAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6523
Alligator_mississippiensis : ATTACCAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6472
Gavialis_gangeticus : ATAGTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6538
Crocodylus_moreletii : ATAGTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6514
Dogania_subplana    : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6442
Pelomedusa_subrufa  : GCGCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6463
Chrysemys_picta     : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6481
Chelonia_mydas      : ACTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6484
Tinamus_major       : ACTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6460
Smithornis_sharpei  : GTCCACATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Corvus_frugilegus   : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Vidua_chalybeata    : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Falco_peregrinus    : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6466
Dromaius_novaeollandiae : AONTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6463
Struthio_camelus    : AONTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Apteryx_haastii     : AONTTCACACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6466
Rhea_americanana    : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Gallus_gallus       : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6463
Ciconia_ciconia     : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Ciconia_boyciiana   : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6469
Iguana_iguana       : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6457
Fumeaces_egregius   : ACCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6460
Sphenodon_punctatus : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6460
Sceloporus_occidentalis : CCAACCCAAAACGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6460
Abronia_graminea    : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6460
Shinisaurus_crocodilurus : ACCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6448
Varanus_komodoensis  : GTACCCCAATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6502
Rhineura_floridana  : ACCAAAATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6442
Geocalamus_acutus   : ACCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6433
Diplometopon_zarudnyi : ACCCTACCAAAATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6442
Amphisbaena_schmidti : ACCCGACTACAAATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6442
Bipes_tridactylus   : ACCCTACCAAAATAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6430
Bipes_canaliculatus : GCCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6442
Bipes_biporus       : GCCACAACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6484
Anolis_carolinensis : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6126
Ophisaurus_atnuatus : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6085
Varanus_salvator     : GTACCCCAATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6494
Mertensiella_luschani : TCCCGCCATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6475
Xenopus_laevis      : GTACCCCAATACCTAAGCGGCGTAAGCCAGAGCAGCAGCAAAAAAGGCGCCGATATCGAGCAATCCGAAATCCGCGCGAATTAACAAAGCCAGTAAACAAAGCCAAACGAGGCGAGGAG : 6466

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6920      *      6940      *      6960      *      6980      *      7000      *      7020      *      7040
Bos_taurus      : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6599
Hylobates_lar  : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Lemur_catta     : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6605
Nycticebus_coucang : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Tarsius_bancanus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Gorilla_gorilla : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Homo_sapiens    : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6599
Papio_hamadryas : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6611
Cebus_albifrons : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Macaca_sylvanus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6605
Pongo_pygmaeus  : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Pan_paniscus    : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Agkistrodon_piscivorus : GAAATGGGGGATATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Pantherophis_guttatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Dinodon_semicarinatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Boa_constrictor : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6617
Python_regius   : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6614
Acrochordus_granulatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6611
Chelydromys_rufus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6581
Ovophis_okinavensis : GAAATGGGGGATATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Xenopeltis_unicolor : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6620
Thyphlops_reticulatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6545
Leptotyphlops_dulcis : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6567
Caiman_crocodilus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6626
Alligator_sinensis : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6656
Alligator_mississippiensis : GAAATGGGGGATATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6605
Gavialis_gangeticus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6671
Crocodylus_moreletii : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6647
Dogania_subplana : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6575
Pelomedusa_subrufa : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6596
Chrysemys_picta : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6614
Chelonia_mydas  : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6617
Tinamus_major   : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6593
Smithornis_sharpei : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Corvus_frugilegus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Vidua_chalybeata : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Buteo_buteo     : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6599
Falco_peregrinus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6596
Dromaius_novaeollandiae : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Struthio_camelus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6599
Apteryx_haastii : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Rhea_americanana : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6596
Gallus_gallus   : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Ciconia_ciconia : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Ciconia_boyciana : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Iguana_iguana   : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6590
Fumeces_egregius : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6593
Sphenodon_punctatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6593
Sceloporus_occidentalis : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6593
Cordylus_warreni : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6602
Abronia_graminea : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6593
Shinisaurus_crocodilurus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6581
Varanus_komodoensis : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6635
Rhineura_floridana : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6575
Geocalamus_acutus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6566
Diplometopon_zarudnyi : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6575
Amphisbaena_schmidti : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6575
Bipes_tridactylus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6563
Bipes_canaliculatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6575
Bipes_biporus   : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6617
Anolis_carolinensis : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6259
Ophisaurus_atnuatus : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6218
Varanus_salvator : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6627
Mertensiella_luschani : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6608
Xenopus_laevis  : GCTGGGGGGCAATAACCAAAACCAACCGGAAATAACATAGCCATCACTCAACCGCTAAATAGGGGAAATAACAGCGAGTACCAATATAACCCCAACCAATACATGCAAAACCAATATAATACAA : 6599

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*       7060       *       7080       *       7100       *       7120       *       7140       *       7160       *       7180
Bos_taurus      : GATTAACCTCCACCAATATATGAGCAATCCACCAACACCCCTGCTTATATAACNATGNAATANAACACCCATATAAGCCGCTCAAACCTGCGCACTCTAATCCATAGGGAGGCT 6732
Hylobates_lar  : GCTAACACACCGGATTCCTAGGCTGCACTGAAATCCAGACACACACCCCTCTATTATAGGCTTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6741
Lemur_catta    : ACTAACTATATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6738
Nycticebus_coucang : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6735
Tarsius_bancanus : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6735
Gorilla_gorilla : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6741
Homo_sapiens   : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6732
Papio_hamadryas : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6744
Cebus_albifrons : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6741
Macaca_sylvanus : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6738
Pongo_pygmaeus : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6741
Pan_paniscus   : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6741
Agkistrodon_piscivorus : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6741
Pantherophis_guttatus : GACTACACCCCGGATTCCTAGGCTGCACTGAAATCCAGACACACACCCCTCTATTATAGGCTTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6741
Dinodon_semicarinatus : AACCCCGGCCCCAATTCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6741
Boa_constrictor : AATCACTCAACGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6750
Python_regius  : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6747
Acrochordus_granulatus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6744
Cylindrophis_ruffus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6714
Ovophis_okinavensis : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6741
Xenopeltis_unicolor : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6753
Typhlops_reticulatus : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6678
Leptotyphlops_dulcis : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6688
Caiman_crocodilus : AGCCCTTCGCGCCGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6759
Alligator_sinensis : AACCCCGGCCCCAATTCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6789
Alligator_mississippiensis : AACCCCGGCCCCAATTCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6738
Gavialis_gangeticus : AACCCCGGCCCCAATTCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6804
Crocodylus_moreletii : CCAATTCGCGCCGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6780
Dogania_subplana : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6708
Pelomedusa_subrufa : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6729
Chrysemys_picta : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6747
Chelonia_mydas : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6750
Tinamus_major : CTTAACTATCTATTCTGCTGATCAACATTAACCCACACACACCACTAACTTATCAAAACATATANAACAAACCAATATACCTCTCAAACTCTCTATCTGCTATAGGGAGGCT 6726
Smithornis_sharpei : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Corvus_frugilegus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Vidua_chalybeata : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Buteo_buteo    : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6732
Falco_peregrinus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6729
Dromaius_novaeollandiae : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Struthio_camelus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6732
Apteryx_haastii : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Rhea_americanana : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6729
Gallus_gallus  : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Ciconia_ciconia : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6735
Ciconia_boycinana : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6723
Iguana_iguana  : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6726
Fumeaces_egregius : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6726
Sphenodon_punctatus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6726
Sceloporus_occidentalis : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6732
Cordylus_warreni : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6726
Abronia_graminea : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6714
Shinisaurus_crocodilurus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6768
Varanus_komodoensis : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6708
Rhinurea_floridana : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6699
Geocalamus_acutus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6708
Diplometopon_zarudnyi : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6708
Amphisbaena_schmidti : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6696
Bipes_tridactylus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6708
Bipes_canaliculatus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6750
Bipes_biporus  : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6392
Anolis_carolinensis : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6351
Ophisaurus_atnuatus : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6760
Varanus_salvator : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6741
Mertensiella_luschani : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6732
Xenopus_laevis : AATCACTCAACCCCGGATTCCTAGCTAACTCAACACATACAAATATCAATAACCAATCAAGACCTAGGAAACCGTGTGNAAACAAATACCGTGTATAGGCCCCAATCCACCCATATACAGGGAGGCT 6732

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	*	7200	*	7220	*	7240	*	7260	*	7280	*	7300	*	
Bos_taurus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Hylobates_lar	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Lemur_catta	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6871
Nycticebus_coucang	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Tarsius_bancanus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Gorilla_gorilla	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Homo_sapiens	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Papio_hamadryas	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6877
Cebus_albifrons	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Macaca_sylvanus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6871
Pongo_pygmaeus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Pan_paniscus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Agkistrodon_piscivorus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Pantherophis_guttatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Dinodon_semicarinatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Boa_constrictor	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6883
Python_regius	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6880
Acrochordus_granulatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6877
Cylindrophis_ruffus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6847
Ovophis_okinavensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Xenopeltis_unicolor	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6886
Typhlops_reticulatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6811
Leptotyphlops_dulcis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6821
Caiman_crocodilus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6892
Alligator_sinensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6922
Alligator_mississippiensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6871
Gavialis_gangeticus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6937
Crocodylus_moreletii	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6913
Dogania_subplana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6838
Pelomedusa_subrufa	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6862
Chrysemys_picta	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6880
Chelonia_mydas	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6883
Tinanus_major	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6859
Smithornis_sharpei	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Corvus_frugilegus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Vidua_chalybeata	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Buteo_buteo	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Falco_peregrinus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6862
Dromaius_novaeollandiae	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Struthio_camelus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Apteryx_haastii	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Rhea_american	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6862
Gallus_gallus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Ciconia_ciconia	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Ciconia_boyciana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6868
Iguana_iguana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6856
Eumeces_egregius	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6859
Sphenodon_punctatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6859
Sceloporus_occidentalis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6859
Cordylus_warreni	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Abronia_graminea	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6859
Shinisaurus_crocodilurus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6901
Varanus_komodoensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6841
Rhineura_floridana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6832
Geocalamus_acutus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6841
Diplometopon_zarudnyi	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6841
Amphisbaena_schmidti	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6829
Bipes_tridactylus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6841
Bipes_canaliculatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6883
Bipes_biporus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6525
Anolis_carolinensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6484
Ophisaurus_attenuatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6893
Varanus_salvator	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6874
Mertensiella_luschani	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865
Xenopus_laevis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	: 6865

	7320	*	7340	*	7360	*	7380	*	7400	*	7420	*	7440								
Bos_taurus	:	ATCCACAC	TAACAAAT	ATGTCG	CCACAAAC	AAAT	AAAAA	AAAAA	GCAGAT	TTCCCG	TA	GAANA	AAAAA	AAACCT	TTG	CC	AAACAA	TG	GGT	:	6989
Hylobates_lar	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Lemur_catta	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6995
Nycticebus_coucang	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6992
Tarsius_bancanus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6992
Gorilla_gorilla	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Homo_sapiens	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Papio_hamadryas	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7001
Cebus_albifrons	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Macaca_sylvanus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6995
Pongo_pygmaeus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Pan_paniscus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Agkistrodon_piscivorus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Pantherophis_guttatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Dinodon_semicarinatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Boa_constrictor	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7007
Python_regius	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7004
Acrochordus_granulatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7001
Lacindorphis_ruffus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6971
Ovophis_okinavensis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6998
Xenopeltis_unicolor	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7010
Typhlops_reticulatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6935
Leptotyphlops_dulcis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6945
Caiman_crocodilus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7016
Alligator_sinensis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7046
Alligator_mississippiensis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6995
Gavialis_gangeticus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7061
Crocodylus_moreletii	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7037
Dogania_subplana	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6959
Pelomedusa_subrufa	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Chrysemys_picta	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7001
Chelonia_mydas	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7004
Tinamus_major	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6980
Smithornis_sharpei	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Corvus_frugilegus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Vidua_chalybeata	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Buteo_buteo	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Falco_peregrinus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6986
Dromaius_novaeollandiae	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Struthio_camelus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Apteryx_haastii	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6986
Rhea_american	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Gallus_gallus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Ciconia_ciconia	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Ciconia_boycciana	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989
Iguana_iguana	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6980
Fumeces_egregius	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Sphenodon_punctatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6980
Sceloporus_occidentalis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Cordylus_warreni	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6986
Abronia_graminea	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6983
Shinisaurus_crocodilurus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6971
Varanus_komodoensis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7025
Rhineura_floridana	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6965
Geocalamus_acutus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6966
Diplometopon_zarudnyi	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6965
Amphisbaena_schmidti	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6965
Bipes_tridactylus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6953
Bipes_canaliculatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6965
Bipes_biporus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7007
Anolis_carolinensis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6649
Ophisaurus_ attenuatus	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6606
Varanus_salvator	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	7017
Mertensiella_luschani	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6995
Xenopus_laevis	:	CCCTCCAA	CAAGCT	GTTC	CCCAAT	CCAAAC	AAAG	AAAAA	TAAAG	GAAG	TTTG	AAAC	AAAAA	CCCAAT	TA	CC	CCCAAT	TA	GGC	:	6989

	*	7460	*	7480	*	7500	*	7520	*	7540	*	7560	*	7580	
Bos_taurus	:	GCCAAATACATACAGG	GTAGAA					AATAAATTAATAG	CGCCCTCGGACAAATTTTACAG	AGCCACCCCTAAAG	GAATCAAGCCATTCGACT				7083
Hylobates_lar	:	CCCAATACATACAGG	CCCAACCCCA					AGANATGGGATTA	GGCCATATAATTAATACAG	CCCTAGCCCTACTACTAA	GAATCAATTAATTCATTCGACT				7092
Lemur_catta	:	ACCAGCCCTACATACAGG	CCCAACCCCA					AGANATGGGATTA	GGCCATATAATTAATACAG	CCCTAGCCCTACTACTAA	GAATCAATTAATTCATTCGACT				7089
Nycticebus_coucang	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Tarsius_bancanus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Gorilla_gorilla	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7092
Homo_sapiens	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7083
Papio_hamadryas	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7095
Cebus_albifrons	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7089
Macaca_sylvanus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7089
Pongo_pygmaeus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7092
Pan_paniscus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7092
Agkistrodon_piscivorus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Pantherophis_guttatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Dinodon_semicarinatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Boa_constrictor	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7089
Python_regius	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Acrochordus_granulatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7083
Cylindrophis_ruffus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7053
Ovophis_okinavensis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Xenopeltis_unicolor	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7092
Typhlops_reticulatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7017
Leptotyphlops_dulcis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7030
Caiman_crocodilus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7128
Alligator_sinensis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7164
Alligator_mississippiensis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7110
Gavialis_gangeticus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7138
Crocodylus_moreletii	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7114
Dogania_subplana	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7056
Pelomedusa_subrufa	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Chelysemys_picta	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7098
Chelonia_mydas	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7101
Tinamus_major	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7077
Smithornis_sharpei	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Corvus_frugilegus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Vidua_chalybeata	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Buteo_buteo	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Falco_peregrinus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7083
Dromaius_novaeollandiae	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Struthio_camelus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Apteryx_haastii	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7083
Rhea_americana	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Gallus_gallus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7080
Ciconia_ciconia	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Ciconia_boyciana	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7086
Iguana_iguana	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7068
Eumeces_egregius	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7068
Sphenodon_punctatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7077
Sceloporus_occidentalis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7068
Cordylus_warreni	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7071
Abronia_graminea	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7071
Shinisaurus_crocodilurus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7059
Varanus_komodoensis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7113
Rhineura_floridana	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7050
Geocalamus_acutus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7044
Diplometopon_zarudnyi	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7056
Amphisbaena_schmidti	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7053
Bipes_tridactylus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7044
Bipes_canaliculatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7056
Bipes_biporus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7098
Anolis_carolinensis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				6740
Ophisaurus_attenuatus	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				6697
Varanus_salvator	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7105
Mertensiella_luschani	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7092
Xenopus_laevis	:	CCCAATACATACAGG	CCCAACCCCA					ATAAATACATAAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA	ATAAATACATAAATTAATTA				7074

		*	7600	*	7620	*	7640	*	7660	*	7680	*	7700	*	
Bos_taurus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Hylobates_lar	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Lemur_catta	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Nycticebus_coucang	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Tarsius_bancanus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Gorilla_gorilla	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Homo_sapiens	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Papio_hamadryas	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Cebus_albifrons	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Macaca_sylvanus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Pongo_pygmaeus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Pan_paniscus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Agkistrodon_piscivorus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Pantherophis_guttatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Dinodon_semicarinatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Boa_constrictor	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Python_regius	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Acrochordus_granulatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Cylindrophis_ruffus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Ovophis_okinavensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Xenopeltis_unicolor	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Typhlops_reticulatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Leptotyphlops_dulcis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Caiman_crocodilus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Alligator_sinensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Alligator_mississippiensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Gavialis_gangeticus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Crocodylus_moreletii	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Dogania_subplana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Pelomedusa_subrufa	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Chrysemys_picta	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Chelonia_mydas	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Tinamus_major	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Smithornis_sharpei	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Corvus_frugilegus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Vidua_chalybeata	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Buteo_buteo	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Falco_peregrinus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Dromaius_novaeollandiae	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Struthio_camelus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Apteryx_haastii	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Rhea_americanana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Gallus_gallus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Ciconia_ciconia	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Ciconia_boyciana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Iguana_iguana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Eumeces_egregius	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Sphenodon_punctatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Sceloporus_occidentalis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Cordylus_warreni	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Abronia_graminea	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Shinisaurus_crocodilurus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Varanus_komodoensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Rhineura_floridana	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Geocalamus_acutus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Diplometopon_zarudnyi	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Amphisbaena_schmidti	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Bipes_tridactylus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Bipes_canaliculatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Bipes_biporus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Anolis_carolinensis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Ophisaurus_atnuatus	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Varanus_salvator	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Mertensiella_luschani	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
Xenopus_laevis	:	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC

	7720	*	7740	*	7760	*	7780	*	7800	*	7820	*	7840	
Bos_taurus	:	GCAC	CC	CC	CA	CC	CC	CC	CC	CC	CC	CC	CC	7349
Hylobates_lar	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7358
Lemur_catta	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7355
Nycticebus_coucang	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Tarsius_bancanus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Gorilla_gorilla	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7358
Homo_sapiens	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7349
Papio_hamadryas	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7361
Cebus_albifrons	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7355
Macaca_sylvanus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7355
Pongo_pygmaeus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7358
Pan_paniscus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7358
Agkistrodon_piscivorus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Pantherophis_guttatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Dinodon_semicarinatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Boa_constrictor	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Python_regius	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7349
Acrochordus_granulatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7346
Cylindrophis_ruffus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7316
Ovophis_okinavensis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Xenopeltis_unicolor	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7355
Typhlops_reticulatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7283
Leptotyphlops_dulcis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7296
Caiman_crocodilus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7394
Alligator_sinensis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7430
Alligator_mississippiensis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7376
Gavialis_gangeticus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7404
Crocodylus_moreletii	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7380
Dogania_subplana	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7319
Pelomedusa_subrufa	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7346
Chrysemys_picta	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7364
Chelonia_mydas	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7367
Tinamus_major	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Smithornis_sharpei	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Corvus_frugilegus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Vidua_chalybeata	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Buteo_buteo	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Falco_peregrinus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7349
Dromaius_novaeollandiae	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7346
Struthio_camelus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Apteryx_haastii	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7349
Rhea_americanana	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Gallus_gallus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7346
Ciconia_ciconia	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Ciconia_boycciana	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7352
Iguana_iguana	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7334
Eumeces_egregius	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7334
Sphenodon_punctatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7343
Sceloporus_occidentalis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7334
Cordylus_warreni	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7337
Abronia_graminea	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7337
Shinisaurus_crocodilurus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7325
Varanus_komodoensis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7379
Rhineura_floridana	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7316
Geocalamus_acutus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7310
Diplometopon_zarudnyi	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7322
Amphisbaena_schmidti	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7319
Bipes_tridactylus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7310
Bipes_canaliculatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7322
Bipes_biporus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7364
Anolis_carolinensis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7006
Ophisaurus_attenuatus	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	6961
Varanus_salvator	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7371
Mertensiella_luschani	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7355
Xenopus_laevis	:	TGCT	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	7340

	*	7860	*	7880	*	7900	*	7920	*	7940	*	7960	*	7980	
Bos_taurus	:	AA	CC	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7437
Hylobates_lar	:	GG	CG	GA	---	AT	GC	TAA	G	TA	AT	CC	CC	AC	7446
Lemur_catta	:	AG	TA	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7443
Nycticebus_coucang	:	AC	AA	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Tarsius_bancanus	:	AA	CC	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Gorilla_gorilla	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7446
Homo_sapiens	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7437
Papio_hamadryas	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7446
Cebus_albifrons	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7443
Macaca_sylvanus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7443
Pongo_pygmaeus	:	AA	CC	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7446
Pan_paniscus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7446
Agkistrodon_piscivorus	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Pantherophis_guttatus	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Dinodon_semicarinatus	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Boa_constrictor	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Python_regius	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7437
Acrochordus_granulatus	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7434
Cylindrophis_ruffus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7404
Ovophis_okinavensis	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Xenopeltis_unicolor	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7443
Typhlops_reticulatus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7371
Leptotyphlops_dulcis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7384
Caiman_crocodylus	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7482
Alligator_sinensis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7518
Alligator_mississippiensis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7464
Gavialis_gangeticus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7492
Crocodylus_moreletii	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7468
Dogania_subplana	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7407
Pelomedusa_subrufa	:	AC	CA	AA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7434
Chrysemys_picta	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7452
Chelonia_mydas	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7455
Tinamus_major	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Smithornis_sharpei	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Corvus_frugilegus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Vidua_chalybeata	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Buteo_buteo	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7437
Falco_peregrinus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7434
Dromaius_novaehollandiae	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7434
Struthio_camelus	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Apteryx_haastii	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7437
Rhea_americana	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Gallus_gallus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7434
Ciconia_ciconia	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Ciconia_boyciana	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7440
Iguana_iguana	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7422
Eumeces_egregius	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7422
Sphenodon_punctatus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7431
Sceloporus_occidentalis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7422
Cordylus_warreni	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7425
Abronia_graminea	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7413
Shinisaurus_crocodylurus	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7413
Varanus_komodoensis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7467
Rhineura_floridana	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7404
Geocalamus_acutus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7398
Diplometopon_zarudnyi	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7410
Amphisbaena_schmidti	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7407
Bipes_tridactylus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7398
Bipes_canaliculatus	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7410
Bipes_biporus	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7452
Anolis_carolinensis	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7094
Ophisaurus_attenuatus	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7049
Varanus_salvator	:	AA	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7459
Mertensiella_luschani	:	GG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7443
Xenopus_laevis	:	AG	CG	GA	---	AT	GC	AAAA	TA	CA	TA	CC	AA	CA	7428





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8120      *      8140      *      8160      *      8180      *      8200      *      8220      *      8240
Bos_taurus      : GCGTCCGCGCCTAATAAGTAAGAGCCAGCACTGATGAAAGGAAAAAGCCGAGGAAAAAATATATATACATGGTGAATGCAATCAACATAGCCAAATATAACCTTACGGCCAGCAACG 7700
Hylobates_lar  : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7709
Lemur_catta    : GAGTATGTCGCGCTATAATATATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7706
Nycticebus_coucang : GACTACTGCGCCGATAAATATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Tarsius_bancanus : GACTACTGCGCCGATAAATATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Gorilla_gorilla : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7709
Homo_sapiens   : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Papio_hamadryas : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7709
Cebus_albifrons : GACTACTGCGCCGATAAATATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Macaca_sylvanus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7706
Pongo_pygmaeus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7709
Pan_paniscus   : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7709
Agkistrodon_piscivorus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Pantherophis_guttatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Dinodon_semicarinatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Boa_constrictor : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Python_regius  : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Acrochordus_granulatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7697
Chelonepheidiformes : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7667
Ovophis_okinavensis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Xenopeltis_unicolor : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7706
Typhlops_reticulatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7634
Leptotyphlops_dulcis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7647
Caiman_crocodilus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7745
Alligator_sinensis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7781
Alligator_mississippiensis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7727
Gavialis_gangeticus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7755
Crocodylus_moreletii : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7731
Dogania_subplana : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7673
Pelomedusa_subrufa : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Chrysemys_picta : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7718
Chelonia_mydas : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7721
Tinamus_major : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7694
Smithornis_sharpei : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Corvus_frugilegus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Vidua_chalybeata : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Buteo_buteo    : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Falco_peregrinus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7697
Dromaius_novaeollandiae : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Struthio_camelus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7700
Apteryx_haastii : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Rhea_americanana : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7697
Gallus_gallus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Ciconia_ciconia : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Ciconia_boyciana : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7703
Iguana_iguana : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7688
Fumeces_egregius : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7688
Sphenodon_punctatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7697
Sceloporus_occidentalis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7688
Cordylus_warreni : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7691
Abronia_graminea : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7679
Shinisaurus_crocodilurus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7733
Varanus_komodoensis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7670
Rhinura_floridana : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7664
Geocalamus_acutus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Diplometopon_zarudnyi : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7673
Amphisbaena_schmidti : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7664
Bipes_tridactylus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7676
Bipes_camaliculatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7718
Bipes_biporus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7357
Anolis_carolinensis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7312
Ophisaurus_atnuatus : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7725
Varanus_salvator : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7706
Mertensiella_luschani : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT 7691
Xenopus_laevis : GACTGTCGCCCCAATAAATCATAGAGCCAGCAACCCCTTACCCAGCGACCCCTCTAGAAAAAANCTGACCTTAAATTAATATATCCGACGCGCACTAATTTAATTAACATTCGCGCCACGAACT

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Bos_taurus	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8733
Hylobates_lar	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8742
Lemur_catta	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8739
Nycticebus_coucang	:	GA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8733
Tarsius_bancanus	:	GG	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8736
Gorilla_gorilla	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8742
Homo_sapiens	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8733
Papio_hamadryas	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8742
Cebus_albifrons	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8736
Macaca_sylvanus	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8739
Pongo_pygmaeus	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8742
Pan_paniscus	:	AAT	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8742
Agkistrodon_piscivorus	:	TA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8709
Pantherophis_guttatus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8709
Dinodon_semicarinatus	:	GA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8709
Boa_constrictor	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8736
Python_regius	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8733
Acrochordus_granulatus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8730
Cylindrophis_ruffus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8700
Ovophis_okinavensis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8709
Xenopeltis_unicolor	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	8739
Typhlops_reticulatus	:	GA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7767
Leptotyphlops_dulcis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7780
Caiman_crocodilus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7878
Alligator_sinensis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7914
Alligator_mississippiensis	:	GA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7860
Gavialis_gangeticus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7888
Crocodylus_moreletii	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7864
Dogania_subplana	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7806
Pelomedusa_subrufa	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7833
Chrysemys_picta	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7851
Chelonia_mydas	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7854
Tinamus_major	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7827
Smithornis_sharpei	:	GA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Corvus_frugilegus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Vidua_chalybeata	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Buteo_buteo	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Falco_peregrinus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7833
Dromaius_novaeollandiae	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7830
Struthio_camelus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Apteryx_haastii	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7833
Rhea_americanana	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Gallus_gallus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7830
Ciconia_ciconia	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Ciconia_boyciana	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7836
Iguana_iguana	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7821
Eumeces_egregius	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7821
Sphenodon_punctatus	:	GG	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7830
Sceloporus_occidentalis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7821
Cordylus_warreni	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7824
Abronia_graminea	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7824
Shinisaurus_crocodilurus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7812
Varanus_komodoensis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7866
Rhineura_floridana	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7803
Geocalamus_acutus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7797
Diplometopon_zarudnyi	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7809
Amphisbaena_schmidti	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7806
Bipes_tridactylus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7797
Bipes_canaliculatus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7809
Bipes_biporus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7851
Anolis_carolinensis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7490
Ophisaurus_atnuatus	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7445
Varanus_salvator	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7857
Mertensiella_luschani	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7839
Xenopus_laevis	:	AA	GAAG	GAAG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	GGG	7824

0 \* 8400 \* 8420 \* 8440 \* 8460 \* 8480 \* 8500 \*
Bos\_taurus :
Hylobates\_lar :
Lemur\_catta :
Nycticebus\_coucang :
Tarsius\_bancanus :
Gorilla\_gorilla :
Homo\_sapiens :
Papio\_hamadryas :
Cebus\_albifrons :
Macaca\_sylvanus :
Pongo\_pygmaeus :
Pan\_paniscus :
Agkistrodon\_piscivorus :
Pantherophis\_guttatus :
Dinodon\_semicarinatus :
Boa\_constrictor :
Python\_regius :
Acrochordus\_granulatus :
Cylindrophis\_ruffus :
Xenopeltis\_unicolor :
Typhlops\_reticulatus :
Leptotyphlops\_dulcis :
Caiman\_crocodilus :
Alligator\_sinensis :
Alligator\_mississippiensis :
Gavialis\_gangeticus :
Crocodylus\_moreletii :
Dogania\_subplana :
Pelomedusa\_subrufa :
Chrysemys\_picta :
Chelonia\_mydas :
Tinamus\_major :
Smithornis\_sharpei :
Corvus\_frugilegus :
Vidua\_chalybeata :
Buteo\_buteo :
Falco\_peregrinus :
Dromaius\_novaeollandiae :
Struthio\_camelus :
Apteryx\_haastii :
Rhea\_american :
Gallus\_gallus :
Ciconia\_ciconia :
Ciconia\_boyciana :
Iguana\_iguana :
Eumeces\_egregius :
Sphenodon\_punctatus :
Sceloporus\_occidentalis :
Cordylus\_warreni :
Abronia\_graminea :
Shinisaurus\_crocodylurus :
Varanus\_komodoensis :
Rhinura\_floridana :
Geocalamus\_acutus :
Diplometopon\_zarudnyi :
Amphisbaena\_schmidti :
Bipes\_tridactylus :
Bipes\_canaliculatus :
Bipes\_biporus :
Anolis\_carolinensis :
Ophisaurus\_atnuatus :
Varanus\_salvator :
Mertensiella\_luschani :
Xenopus\_laevis

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	80	*	8800	*	8820	*	8840	*	8860	*	8880	*	8900	*	
Bos_taurus	: G	A	A	G	C	C	A	A	G	G	G	C	C	A	8353
Hylobates_lar	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8362
Lemur_catta	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8359
Nycticebus_coucang	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Tarsius_bancanus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Gorilla_gorilla	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8362
Homo_sapiens	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8353
Papio_hamadryas	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8362
Cebus_albifrons	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Macaca_sylvanus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8359
Pongo_pygmaeus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8362
Pan_paniscus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8362
Agkistrodon_piscivorus	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8320
Pantherophis_guttatus	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8320
Dinodon_semicarinatus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8320
Boa_constrictor	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8347
Python_regius	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8344
Acrochordus_granulatus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8341
Cylindrophis_ruffus	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8311
Ovophis_okinavensis	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8320
Xenopeltis_unicolor	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8350
Thylops_reticulatus	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8281
Leptotyphlops_dulcis	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8288
Caiman_crocodilus	: A	T	A	A	G	C	C	A	A	G	G	C	C	A	8398
Alligator_sinensis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8434
Alligator_mississippiensis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8380
Gavialis_gangeticus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8408
Crocodylus_moreletii	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8384
Dogania_subplana	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8326
Pelomedusa_subrufa	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8353
Chrysemys_picta	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8371
Chelonia_mydas	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8374
Tinanus_major	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8347
Smithornis_sharpei	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Corvus_frugilegus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Vidua_chalybeata	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Buteo_buteo	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8353
Falco_peregrinus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8350
Dromaius_novaeollandiae	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Struthio_camelus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8353
Apteryx_haastii	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Rhea_american	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8350
Gallus_gallus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8359
Ciconia_ciconia	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8356
Ciconia_boycinana	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8341
Iguana_iguana	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8341
Eumeces_egregius	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8350
Sphenodon_punctatus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8341
Sceloporus_occidentalis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8344
Cordylus_warreni	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8344
Abronia_graminea	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8332
Shinisaurus_crocodilurus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8386
Varanus_komodoensis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8323
Rhineura_floridana	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8311
Geocalamus_acutus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8326
Diplometopon_zarudnyi	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8311
Amphisbaena_schmidti	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8317
Bipes_tridactylus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8329
Bipes_capaliculatus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8371
Bipes_biparus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8002
Anolis_carolinensis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	7965
Ophisaurus_atnuatus	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8377
Varanus_salvator	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8359
Mertensiella_luschani	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	8350
Xenopus_laevis	: G	T	A	A	G	C	C	A	A	G	G	C	C	A	



	8920	*	8940	*	8960	*	8980	*	9000	*	9020	*	9040		
Bos_taurus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8486
Hylobates_lar	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8495
Lemur_catta	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8492
Nycticebus_coucang	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Tarsius_bancanus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Gorilla_gorilla	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8495
Homo_sapiens	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8486
Papio_hamadryas	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8495
Cebus_albifrons	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Macaca_sylvanus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8492
Pongo_pygmaeus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8495
Pan_paniscus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8495
Agkistrodon_piscivorus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8453
Pantherophis_guttatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8453
Dinodon_semicarinatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8453
Boa_constrictor	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8480
Python_regius	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8477
Acrochordus_granulatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8474
Cylindrophis_ruffus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8444
Ovophis_okinavensis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8453
Xenopeltis_unicolor	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8483
Typhlops_reticulatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8414
Leptotyphlops_dulcis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8421
Caiman_crocodilus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8531
Alligator_sinensis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8567
Alligator_mississippiensis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8513
Gavialis_gangeticus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8541
Crocodylus_moreletii	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8517
Dogania_subplana	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8459
Pelomedusa_subrufa	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8486
Chrysemys_picta	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8504
Chelonia_mydas	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8507
Tinanus_major	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8480
Smithornis_sharpei	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Corvus_frugilegus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Vidua_chalybeata	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Buteo_buteo	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Falco_peregrinus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8486
Dromaius_novaeollandiae	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8483
Struthio_camelus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Apteryx_haastii	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8486
Rhea_american	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Gallus_gallus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8483
Ciconia_ciconia	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8492
Ciconia_boycciana	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8489
Iguana_iguana	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8474
Fumeces_egregius	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8474
Sphenodon_punctatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8483
Sceloporus_occidentalis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8474
Cordylus_warreni	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8477
Abronia_graminea	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8477
Shinisaurus_crocodilurus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8465
Varanus_komodoensis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8519
Rhineura_floridana	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8456
Geocalamus_acutus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8444
Diplometopon_zarudnyi	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8459
Amphisbaena_schmidti	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8444
Bipes_tridactylus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8450
Bipes_canaliculatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8462
Bipes_biporus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8504
Anolis_carolinensis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8132
Ophisaurus_atnuatus	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8098
Varanus_salvator	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8510
Mertensiella_luschani	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8492
Xenopus_laevis	:	ACTAGGACGAA	CCAC	NGCCGAA	CAATAA	TGTCGAGGC	TAACAA	GGTCC	CTAAT	AGCCACC	GATG	CTC	AGC	AAAG	8483

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*          9060          *          9080          *          9100          *          9120          *          9140          *          9160          *
Bos_taurus      : AGAATGATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8616
Hylobates_lar  : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8625
Lemur_catta    : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8622
Nycticebus_coucang : AGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Tarsius_bancanus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Gorilla_gorilla : AGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8625
Homo_sapiens   : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8616
Papio_hamadryas : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8625
Cebus_albifrons : AGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Macaca_sylvanus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8622
Pongo_pygmaeus : AGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8625
Pan_paniscus   : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8625
Agkistrodon_piscivorus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Pantherophis_guttatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Dinodon_semicarinatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Boa_constrictor : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8607
Python_regius  : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8604
Acrochordus_granulatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8601
Cylindrophis_ruffus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Ovophis_okinavensis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Xenopeltis_unicolor : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8610
Typhlops_reticulatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Leptotyphlops_dulcis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Caiman_crocodilus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Alligator_sinensis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Alligator_mississippiensis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Gavialis_gangeticus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Crocodilus_moreletii : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Dogania_subplana : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Pelomedusa_subrufa : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Chrysemys_picta : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Chelonia_mydas : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Tinamus_major : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Smithornis_sharpei : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Corvus_frugilegus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Vidua_chalybeata : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Buteo_buteo    : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Falco_peregrinus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Dromaius_novaeollandiae : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Struthio_camelus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Apteryx_haastii : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Rhea_americanana : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Gallus_gallus  : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Ciconia_ciconia : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Ciconia_boyciana : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Iguana_iguana  : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Fumeces_egregius : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Sphenodon_punctatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Sceloporus_occidentalis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Abronia_graminea : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Shinisaurus_crocodilurus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Varanus_komodoensis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Rhineura_floridana : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Geocalamus_acutus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Diplometopon_zarudnyi : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Amphisbaena_schmidti : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Bipes_tridactylus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Bipes_banaliculatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Bipes_biporus  : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Anolis_carolinensis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Ophisaurus_atnuatus : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Varanus_salvator : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Mertensiella_luschani : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619
Xenopus_laevis : GGAATGAGAGAAAGCAACCTTTAAAGGCAAAATGAAATGAAAGGAGAAAATGAAAGAGCCGCTATATGATACAGCAATATAAGCCCAACGGGAAATAATCCG 8619

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	9320	*	9340	*	9360	*	9380	*	9400	*	9420	*	9440	
Bos_taurus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Hylobates_lar	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Lemur_catta	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8837
Nycticebus_coucang	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Tarsius_bancanus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Gorilla_gorilla	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Homo_sapiens	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Papio_hamadryas	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Cebus_albifrons	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Macaca_sylvanus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8837
Pongo_pygmaeus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Pan_paniscus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Agkistrodon_piscivorus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8783
Pantherophis_guttatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8783
Dinodon_semicarinatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8783
Boa_constrictor	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8810
Python_regius	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8807
Acrochordus_granulatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8804
Cylindrophis_ruffus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8774
Ovophis_okinavensis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8783
Xenopeltis_unicolor	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8813
Typhlops_reticulatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8747
Leptotyphlops_dulcis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8754
Caiman_crocodilus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8870
Alligator_sinensis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8903
Alligator_mississippiensis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8852
Gavialis_gangeticus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8880
Crocodylus_moreletii	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8856
Dogania_subplana	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8804
Pelomedusa_subrufa	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8828
Chrysemys_picta	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8849
Chelonia_mydas	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8852
Tinamus_major	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8822
Smithornis_sharpei	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Corvus_frugilegus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Vidua_chalybeata	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Buteo_buteo	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Falco_peregrinus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8825
Dromaius_novaeollandiae	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Struthio_camelus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8819
Apteryx_haastii	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Rhea_americanana	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Gallus_gallus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8831
Ciconia_ciconia	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8837
Ciconia_boycciana	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8834
Iguana_iguana	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8819
Eumeces_egregius	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8819
Sphenodon_punctatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8828
Sceloporus_occidentalis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8819
Cordylus_warreni	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8813
Abronia_graminea	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8822
Shinisaurus_crocodilurus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8798
Varanus_komodoensis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8855
Rhineura_floridana	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8801
Geocalamus_acutus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8780
Diplometopon_zarudnyi	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8795
Amphisbaena_schmidti	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8780
Bipes_tridactylus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8786
Bipes_canaliculatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8798
Bipes_biporus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8840
Anolis_carolinensis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8461
Ophisaurus_atnuatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8443
Varanus_salvator	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8846
Mertensiella_luschani	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8837
Xenopus_laevis	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: 8828



	9580	*	9600	*	9620	*	9640	*	9660	*	9680	*	9700	
Bos_taurus	: ATGTAAGTAAATCAAAATACATGGTCTGATATGTAATAAANAACAAACAAACCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9079	
Hylobates_lar	: CTAGTCTCAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAGATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9088	
Lemur_catta	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9085	
Nycticebus_coucang	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9091	
Tarsius_bancanus	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9082	
Gorilla_gorilla	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9088	
Homo_sapiens	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9079	
Papio_hamadryas	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9088	
Cebus_albifrons	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9076	
Macaca_sylvanus	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9085	
Pongo_pygmaeus	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9088	
Pan_paniscus	: CTAGTAACTAAATCTCAACACATAGGGCTAGACCCGATCCACACCAACCAACCAACTCCCAATGC								ATAAATGACCAATGACGACGAGCTAGCTTACGATACCAATCAACCAATCAAC				: 9088	
Agkistrodon_piscivorus	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9028	
Pantherophis_guttatus	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9028	
Dinodon_semicarinatus	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9028	
Boa_constrictor	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9055	
Python_regius	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9052	
Acrochordus_granulatus	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9049	
Cylindrophis_ruffus	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9019	
Ovophis_okinavensis	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9028	
Xenopeltis_unicolor	: GTTGTTCGAATCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9058	
Thelphops_reticulatus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 8992	
Leptotyphlops_dulcis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9008	
Caiman_crocodilus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9123	
Alligator_sinensis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9160	
Alligator_mississippiensis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9108	
Gavialis_gangeticus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9136	
Crocodylus_moreletii	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9112	
Dogania_subplana	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9052	
Pelomedusa_subrufa	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Chrysemys_picta	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9097	
Chelonia_mydas	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9103	
Tinanus_major	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9079	
Smithornis_sharpei	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9091	
Corvus_frugilegus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9091	
Vidua_chalybeata	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9091	
Buteo_buteo	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Falco_peregrinus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9082	
Dromaius_novaeollandiae	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Struthio_camelus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9076	
Apteryx_haastii	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Rhea_american	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Gallus_gallus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9088	
Ciconia_ciconia	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9094	
Ciconia_boyciana	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9091	
Iguana_iguana	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9070	
Eumeces_egregius	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9070	
Sphenodon_punctatus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9024	
Sceloporus_occidentalis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9073	
Cordylus_warreni	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9067	
Abronia_graminea	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9076	
Shinisaurus_crocodilurus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9052	
Varanus_komodoensis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9109	
Rhineura_floridana	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9052	
Geocalamus_acutus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9034	
Diplometopon_zarudnyi	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9049	
Amphisbaena_schmidti	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9034	
Bipes_tridactylus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9040	
Bipes_canaliculatus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9052	
Bipes_biporus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9094	
Anolis_carolinensis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 8715	
Ophisaurus_atnuatus	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 8697	
Varanus_salvator	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9100	
Mertensiella_luschani	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9094	
Xenopus_laevis	: CTAAATGCAACCTCCGAAACCCCGGAAAGGACTTCTTAAAAAACTTAAATCCCTA								ATGGGCTTAAACACCAACATATCTTCCGACAGCTTCTCTTCTAAACCGCTT				: 9085	





	*	9860	*	9880	*	9900	*	9920	*	9940	*	9960	*	
Bos_taurus	:	CCCCAATAAATATTAACACACGGCCAGGAAATAATATTAATAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Hylobates_lar	:	TCCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Lemur_catta	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Nycticebus_coucang	:	TCCAGCTTCTCTTTGTTTCCGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Tarsius_bancanus	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9309										
Gorilla_gorilla	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Homo_sapiens	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Papio_hamadryas	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Cebus_albifrons	:	GTCTATACAAATATTTATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9303										
Macaca_sylvanus	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Pongo_pygmaeus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Pan_paniscus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Agkistrodon_piscivorus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9240										
Pantherophis_guttatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9219										
Dinodon_semicarinatus	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9222										
Boa_constrictor	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9270										
Python_regius	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9270										
Acrochordus_granulatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9252										
Cyclodorus_ruffus	:	TCCAAATACATATTAATTTCTCCAGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9237										
Ovophis_okinavensis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9240										
Xenopeltis_unicolor	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9276										
Typhlops_reticulatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9216										
Leptotyphlops_dulcis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9226										
Caiman_crocodylus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9333										
Alligator_sinensis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9375										
Alligator_mississippiensis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Gavialis_gangeticus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9343										
Crocodylus_moreletii	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9319										
Dogania_subplana	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9255										
Pelomedusa_subrufa	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Chrysemys_picta	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Helonia_mydas	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9324										
Tinanus_major	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9303										
Smithornis_sharpei	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9309										
Corvus_frugilegus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Vidua_chalybeata	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Buteo_buteo	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Falco_peregrinus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Dromaius_novaeollandiae	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Struthio_camelus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Apteryx_haastii	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9300										
Rhea_american	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Gallus_gallus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9309										
Ciconia_ciconia	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9318										
Ciconia_boydciana	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9315										
Iguana_iguana	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9297										
Eumeces_egregius	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9300										
Sphenodon_punctatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	-										
Sceloporus_occidentalis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9291										
Cordylus_warreni	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9297										
Abronia_graminea	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Shinisaurus_crocodylurus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9282										
Varanus_komodoensis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9321										
Rhineura_floridana	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9279										
Geocalamus_acutus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9249										
Diplometopon_zarudnyi	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9267										
Amphisbaena_schmidti	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9252										
Bipes_tridactylus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9252										
Bipes_canaliculatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9264										
Bipes_biporus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Anolis_carolinensis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9344										
Ophisaurus_atnuatus	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9306										
Varanus_salvator	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9312										
Mertensiella_luschani	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9318										
Xenopus_laevis	:	CCCCAATAAATATTAACACGGCCAGGAAACATATATTTAAAGACATGCAAGCAATCCAAAATCTAAATATACCCAGCTTAAATAGACATTTCCCAATAAATATTAACCCGGTAGCC	:	9309										

	9980	*	10000	*	10020	*	10040	*	10060	*	10080	*	10100	
Bos_taurus	:	A	A	T	T	G	C	C	A	G	T	T	A	9439
Hylobates_lar	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Lemur_catta	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Nycticebus_coucang	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Tarsius_bancanus	:	C	A	T	T	G	C	C	A	G	T	T	A	9442
Gorilla_gorilla	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Homo_sapiens	:	C	A	T	T	G	C	C	A	G	T	T	A	9439
Papio_hamadryas	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Cebus_albifrons	:	C	A	T	T	G	C	C	A	G	T	T	A	9436
Macaca_sylvanus	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Pongo_pygmaeus	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Pan_paniscus	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Agkistrodon_piscivorus	:	C	A	T	T	G	C	C	A	G	T	T	A	9373
Pantherophis_guttatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9352
Dinodon_semicarinatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9355
Boa_constrictor	:	C	A	T	T	G	C	C	A	G	T	T	A	9403
Python_regius	:	C	A	T	T	G	C	C	A	G	T	T	A	9403
Acrochordus_granulatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9385
Cylindrophis_ruffus	:	C	A	T	T	G	C	C	A	G	T	T	A	9370
Ovophis_okinavensis	:	C	A	T	T	G	C	C	A	G	T	T	A	9373
Xenopeltis_unicolor	:	C	A	T	T	G	C	C	A	G	T	T	A	9409
Typhlops_reticulatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9349
Leptotyphlops_dulcis	:	C	A	T	T	G	C	C	A	G	T	T	A	9359
Caiman_crocodilus	:	C	A	T	T	G	C	C	A	G	T	T	A	9466
Alligator_sinensis	:	C	A	T	T	G	C	C	A	G	T	T	A	9508
Alligator_mississippiensis	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Gavialis_gangeticus	:	C	A	T	T	G	C	C	A	G	T	T	A	9476
Crocodylus_moreletii	:	C	A	T	T	G	C	C	A	G	T	T	A	9452
Dogania_subplana	:	C	A	T	T	G	C	C	A	G	T	T	A	9388
Pelomedusa_subrufa	:	C	A	T	T	G	C	C	A	G	T	T	A	9439
Chrysemys_picta	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Chelonia_mydas	:	C	A	T	T	G	C	C	A	G	T	T	A	9457
Tinamus_major	:	C	A	T	T	G	C	C	A	G	T	T	A	9436
Smithornis_sharpei	:	C	A	T	T	G	C	C	A	G	T	T	A	9442
Corvus_frugilegus	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Vidua_chalybeata	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Buteo_buteo	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Falco_peregrinus	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Dromaius_novaeollandiae	:	C	A	T	T	G	C	C	A	G	T	T	A	9439
Struthio_camelus	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Apteryx_haastii	:	C	A	T	T	G	C	C	A	G	T	T	A	9433
Rhea_americanana	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Gallus_gallus	:	C	A	T	T	G	C	C	A	G	T	T	A	9442
Ciconia_ciconia	:	C	A	T	T	G	C	C	A	G	T	T	A	9451
Ciconia_boycinana	:	C	A	T	T	G	C	C	A	G	T	T	A	9448
Iguana_iguana	:	C	A	T	T	G	C	C	A	G	T	T	A	9430
Eumeces_egregius	:	C	A	T	T	G	C	C	A	G	T	T	A	9433
Sphenodon_punctatus	:	C	A	T	T	G	C	C	A	G	T	T	A	-
Sceloporus_occidentalis	:	C	A	T	T	G	C	C	A	G	T	T	A	9424
Cordylus_warreni	:	C	A	T	T	G	C	C	A	G	T	T	A	9430
Abronia_graminea	:	C	A	T	T	G	C	C	A	G	T	T	A	9439
Shinisaurus_crocodilurus	:	C	A	T	T	G	C	C	A	G	T	T	A	9415
Varanus_komodoensis	:	C	A	T	T	G	C	C	A	G	T	T	A	9454
Rhineura_floridana	:	C	A	T	T	G	C	C	A	G	T	T	A	9412
Geocalamus_acutus	:	C	A	T	T	G	C	C	A	G	T	T	A	9382
Diplometopon_zarudnyi	:	C	A	T	T	G	C	C	A	G	T	T	A	9400
Amphisbaena_schmidti	:	C	A	T	T	G	C	C	A	G	T	T	A	9385
Bipes_tridactylus	:	C	A	T	T	G	C	C	A	G	T	T	A	9385
Bipes_canaliculatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9397
Bipes_biporus	:	C	A	T	T	G	C	C	A	G	T	T	A	9439
Anolis_carolinensis	:	C	A	T	T	G	C	C	A	G	T	T	A	9067
Ophisaurus_atnuatus	:	C	A	T	T	G	C	C	A	G	T	T	A	9059
Varanus_salvator	:	C	A	T	T	G	C	C	A	G	T	T	A	9445
Mertensiella_luschani	:	C	A	T	T	G	C	C	A	G	T	T	A	9451
Xenopus_laevis	:	C	A	T	T	G	C	C	A	G	T	T	A	9442

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*      10120      *      10140      *      10160      *      10180      *      10200      *      10220      *      10240
Bos_taurus      : CCGAGCATTCAAGGGTGGGANGGGCGGGANATATAATTTGAGATAGGAGGATAGGGGAGCAGAGAGCAAACAACAGAGCCCTACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Hylobates_lar   : TTAACTCTCAAGGGCGGANGGGCGAGGANATATATCTTTTCCAAATGGCGAGGACAGCCCGAGAGAGGCTAACACCGGAGCCACCGGGAACTATATAAAGCCGATGGGGACATGGATT : 9581
Lemur_catta     : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Nycticebus_coucang : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Tarsius_bancanus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9575
Gorilla_gorilla : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Homo_sapiens    : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Papio_hamadryas : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Cebus_albifrons : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9569
Macaca_sylvanus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Pongo_pygmaeus  : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Pan_paniscus    : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Agkistrodon_piscivorus : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9506
Pantherophis_guttatus : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9485
Dinodon_semicarinatus : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9488
Boa_constrictor : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9536
Python_regius   : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9536
Acrochordus_granulatus : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9518
Cylindrophis_ruffus : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9503
Ovophis_okinavensis : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9506
Xenopeltis_unicolor : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9542
Typhlops_reticulatus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9482
Leptotyphlops_dulcis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9499
Caiman_crocodilus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9522
Alligator_sinensis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9641
Alligator_mississippiensis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Gavialis_gangeticus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9609
Crocodylus_moreletii : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9585
Dogania_subplana : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9521
Pelomedusa_subrufa : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Chrysemys_picta : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Chelonia_mydas : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9590
Tinamus_major   : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9569
Smithornis_sharpei : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9575
Corvus_frugilegus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Vidua_chalybeata : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Buteo_buteo     : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Falco_peregrinus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Dromaius_novaeollandiae : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Struthio_camelus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Apteryx_haastii : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9566
Rhea_americanana : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Gallus_gallus   : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9575
Ciconia_ciconia : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9584
Ciconia_boyciiana : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9581
Iguana_iguana   : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9563
Fumeaces_egregius : ACCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9566
Sphenodon_punctatus : - : -
Sceloporus_occidentalis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Cordylus_warreni : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9563
Abronia_graminea : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Shinisaurus_crocodilurus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9548
Varanus_komodoensis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9587
Rhinurea_floridana : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9545
Geocalamus_acutus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9515
Diplometopon_zarudnyi : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9533
Amphisbaena_schmidti : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9518
Bipes_tridactylus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9518
Bipes_canaliculatus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9530
Bipes_biporus   : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9572
Anolis_carolinensis : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9200
Ophisaurus_atnuatus : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9192
Varanus_salvator : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9578
Mertensiella_luschani : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9584
Xenopus_laevis  : TCCAACTTTTATCGGGGGGANGGGAGAGGCATATATATTTTAAATGGGGGGGATAGGGCCGAAACAGAGCAAAATATAGGACAGCCACANGCAATCTATATAAAGCCGATGGGGACATGGATT : 9575

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*      10260      *      10280      *      10300      *      10320      *      10340      *      10360      *
Bos_taurus : G A T T T A G C A A T A G C A T G T T C C T A A C N A A T C C T A A A C C C T G N G C C C C A A G A T T C C A T A A A C C C A G C G C C C A
Hylobates_lar : T A T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C A C A A A A T A T C C C T A A A C T C C A C C C C A A C
Lemur_catta : G A T T T A G C C A T A G C A G A T T T C C C C C C A A C C C G N G A A C C A C A A A A T A T C C C T A A A C T C C A C C C C A A C
Nycticebus_coucang : T A T T A G C C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C A C A A A A T A T C C C T A A A C T C C A C C C C A A C
Tarsius_bancanus : G A T T T A G C C A T A G C A G A T T T C C C C C C A A C C C G N G A A C C A C A A A A T A T C C C T A A A C T C C A C C C C A A C
Gorilla_gorilla : G A T T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Homo_sapiens : G A T T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Papio_hamadryas : G A T T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Cebus_albifrons : T A T T A G C C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Macaca_sylvanus : G A T T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Pongo_pygmaeus : G A T T T A G C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C A C A A A A T A T C C C T A A A C C C C A C C A A C
Pan_paniscus : T A T T A G C C C C T A G C A G A T T T C C C C C C A A C C C G N G A A C C C C A A A A A T A T C C C T A A A C C C C A C C A A C
Agkistrodon_piscivorus : C C C C T T A C C C C C C G A A T T A T T A C C C C C C C A A T A A G C A T A C A A G A A C T A C T A A T C A A T T G A A A C A G C C A A C
Pantherophis_guttatus : G A T T A T A C C A C T G C A T G A C T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C C A G C C C A A C C A A C
Dinodon_semicarinatus : T A T T A T A C C A C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C T T A A T A C A A C A A G A N G A G T A A C
Boa_constrictor : G A T T A T A C C A C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A A T C C G A C A G A A G A N A C A A C A A C
Python_regius : G A T T A T A C C A C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C T T A C A A C A A C A A N G C A A C
Acrochordus_granulatus : T A T T A T A C C A C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C T T A C A A C A A C A A A A T A A C
Cylindrophis_ruffus : G A T T A T A C C A C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C T T A C A A C A A A A T A A G C
Ovophis_okinavensis : T A T T A T A C C C C C C G C A G A T A A T A A C C C C C C A C A A T C A A T A C A A G A A C C T T A C A A C A A A A G G C A A C
Xenopeltis_unicolor : G A T T T G C T A C A G C C C G A T A A T A C C C A A C C C A T A A C A A G A A C T A T T T C A C A A C A A N G A N G A T A A T
Typhlops_reticulatus : A C T A T A A C C A T T C G A C T G A A C A C C A A C A G C C T G G A A C C A A G A A A T C C G C A A A C A A A C C A C C A T A G
Leptotyphlops_dulcis : G A T T T G C C C T A G C A G A T T T C C C C C C A C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Caiman_crocodilus : C C C A C C C C C C T A C A A T A G C C A C C T A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Alligator_sinensis : A C C C C C C C G A T T T C A T G A A T G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Alligator_mississippiensis : A C C C C C C C T A T A T C A A T G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Gavialis_gangeticus : A G C A A T C C C C C T A G C A G A T T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Crocodylus_moreletii : A G T A T C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Dogania_subplana : A A A T C G G C A T A G C C G A A T A C A A A A C C A A A C C T G A G A A C C A A C A A A C C C C C C C C C C C C C C C C C C C C C C C C
Pelomedusa_subrufa : A A T C C C C C C C A A G A G C A T A A T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Chrysemys_picta : A A T C C C C C C C A A G A G C A T A A T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Chelonia_mydas : A A T C C C C C C C A A G A G C A T A A T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Tinamus_major : G A T T A T C C C A T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Smithornis_sharpei : T A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Corvus_frugilegus : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Vidua_chalybeata : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Buteo_buteo : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Falco_peregrinus : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Dromaius_novaeollandiae : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Struthio_camelus : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Apteryx_haastii : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Rhea_americanana : A A C C C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Gallus_gallus : G A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Ciconia_ciconia : T A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Ciconia_boycciana : T A T T C C C C C C T A G C A G A T T T C C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Iguana_iguana : A C C T T A A C C A C A C A G A T T T C C A A T A A C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Eumeces_egregius : A A T T T T C C C A T A C A G A T T T C C A A C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Sphenodon_punctatus :
Sceloporus_occidentalis : A A T T A T A C C A A T G C A G A T T T C C C A A A C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Cordylus_warreni : A A T T A T A C C C T A G C C G A C T A G C C A T A T C G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Abronia_graminea : A A T C C C A C A T A G C C G A T T A G C C A T A A A C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Shinisaurus_crocodilurus : A A T G A T T A C A A T G C C G A C T A G C C A T A A A T T C C A C A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Varanus_komodoensis : T A T C C C A C T A G C C G A C T C C C A C C A C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Rhineura_floridana : T A T A G C C A A T G C C G A C T T G C C A T C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Geocalamus_acutus : A T T A A T C C C C C C G A T G A C T A G C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Diplometopon_zarudnyi : A C C A A T A C T A T A G C C G A C T G C C C C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Amphisbaena_schmidti : T A T T A A T A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Bipes_tridactylus : G C C T A T A G C A A T A G C C A T T A T T A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Bipes_capaliculatus : A C C T C C G C A A C G A C T A A T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Bipes_banani : G C C T T A G C C A A T A G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Anolis_carolinensis : A A T C C T A A A A T G C G G C C C C A A A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Ophisaurus_atnuatus : A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Varanus_salvator : T A T C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Mertensiella_luschani : A A T T A T G C A T G C A G A T T T A A A A C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
Xenopus_laevis : A A T C C T A G C A T A G C A G G C A A A C C A A C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C

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	10380	*	10400	*	10420	*	10440	*	10460	*	10480	*	10500	
<i>Bos_taurus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Hylobates_lar</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Lemur_catta</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Nycticebus_coucang</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Tarsius_bancanus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832
<i>Gorilla_gorilla</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Homo_sapiens</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Papio_hamadryas</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Cebus_albifrons</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9826
<i>Macaca_sylvanus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Pongo_pygmaeus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Pan_paniscus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9838
<i>Agkistrodon_piscivorus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9760
<i>Pantherophis_guttatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9739
<i>Dinodon_semicarinatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9742
<i>Boa_constrictor</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9790
<i>Python_regius</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9790
<i>Acrochordus_granulatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9772
<i>Cylindrophis_ruffus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9757
<i>Ovophis_okinavensis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9760
<i>Xenopeltis_unicolor</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9796
<i>Typhlops_reticulatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9736
<i>Leptotyphlops_dulcis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9746
<i>Caiman_crocodilus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9853
<i>Alligator_sinensis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9895
<i>Alligator_mississippiensis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Gavialis_gangeticus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9863
<i>Crocodylus_moreletii</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9839
<i>Dogania_subplana</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9778
<i>Pelomedusa_subrufa</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Chrysemys_picta</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Chelonia_mydas</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9847
<i>Tinanus_major</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9820
<i>Smithornis_sharpei</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9826
<i>Corvus_frugilegus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Vidua_chalybeata</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Buteo_buteo</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Falco_peregrinus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832
<i>Dromaius_novaeollandiae</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9826
<i>Struthio_camelus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832
<i>Apteryx_haastii</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9820
<i>Rhea_americana</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832
<i>Gallus_gallus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Ciconia_ciconia</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Ciconia_boycciana</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832
<i>Iguana_iguana</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9817
<i>Eumeces_egregius</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9823
<i>Sphenodon_punctatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: -
<i>Sceloporus_occidentalis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9811
<i>Cordylus_warreni</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9820
<i>Abronia_graminea</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Shinisaurus_crocodilurus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9805
<i>Varanus_komodoensis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9844
<i>Rhineura_floridana</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9802
<i>Geocalamus_acutus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9772
<i>Diplometopon_zarudnyi</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9790
<i>Amphisbaena_schmidti</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9775
<i>Bipes_tridactylus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9775
<i>Bipes_canaliculatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9787
<i>Bipes_biporus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9829
<i>Anolis_carolinensis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9439
<i>Ophisaurus_attuatus</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9449
<i>Varanus_salvator</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9835
<i>Mertensiella_luschani</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9841
<i>Xenopus_laevis</i>	:	CGCCCAATTGGCCACACCCG	GAATCCCGAGCAATAGAAAGGGCC	AAACCCCGTTCG	CGCAATCCCAATCAGACCAATAG	GGAGAGGAAATCCG	CAACCGCAACCCCTC	CAAG						: 9832

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*      10520      *      10540      *      10560      *      10580      *      10600      *      10620      *      10640
Bos_taurus      : AANA... 9962
Hylobates_lar  : AANA... 9971
Lemur_catta    : AANA... 9968
Nycticebus_cou : AAAC... 9971
Tarsius_banca : AAAT... 9965
Gorilla_gorilla : AAAA... 9971
Homo_sapiens   : AAAA... 9962
Papio_hamadry : AAAA... 9971
Cebus_albifrons : AAAA... 9959
Macaca_sylvanus : AAGC... 9968
Pongo_pygmaeus : AAAA... 9971
Pan_paniscus   : AAAA... 9971
Agkistrodon_piscivorus : ACAA... 9893
Pantherophis_guttatus : AAAC... 9872
Dinodon_semicarinatus : ACAT... 9875
Boa_constrictor : AANA... 9923
Python_regius  : AANA... 9923
Acrochordus_granulatus : AAAA... 9905
Cylindrophis_ruffus : AAAA... 9887
Ovophis_okinavensis : ACAC... 9890
Xenopeltis_unicolor : AAAA... 9929
Typhlops_reticulatus : AANA... 9869
Leptotyphlops_dulcis : AAAC... 9879
Caiman_crocodylus : AAGT... 9986
Alligator_sinensis : AAGC... 10028
Alligator_mississippiensis : ATAG... 9968
Gavialis_gangeticus : ATAG... 9996
Crocodylus_moreletii : AAGC... 9972
Dogania_subplana : CCAC... 9911
Pelomedusa_subrufa : CA... 9962
Chrysemys_picta : CC... 9968
Chelonia_mydas : CC... 9980
Tinamus_major : CC... 9953
Smithornis_sharpei : CC... 9959
Corvus_frugilegus : CC... 9968
Vidua_chalybeata : CC... 9968
Buteo_buteo    : CC... 9965
Falco_peregrinus : CC... 9959
Dromaius_novaeollandiae : CC... 9965
Struthio_camelus : CC... 9953
Apteryx_haastii : CC... 9965
Rhea_american : CC... 9962
Gallus_gallus : CC... 9968
Ciconia_ciconia : CC... 9965
Ciconia_boyceana : CC... 9950
Iguana_iguana  : AAAC... 9956
Fumees_egregius : AAAC... 9956
Sphenodon_punctatus : -
Sceloporus_occidentalis : AAAC... 9944
Cordylus_warreni : AAAC... 9953
Abronia_graminea : AAAC... 9962
Shinisaurus_crocodylurus : AAAC... 9938
Varanus_komodoensis : AAAC... 9977
Rhineura_floridana : AAAC... 9935
Geocalamus_acutus : AAAC... 9902
Diplometopon_zarudnyi : AAAT... 9923
Amphisbaena_schmidti : AAAC... 9908
Bipes_tridactylus : AAAC... 9908
Bipes_canaliculatus : AA... 9920
Bipes_biporus  : AA... 9962
Anolis_carolinensis : AAAC... 9572
Ophisaurus_atnuatus : AAGG... 9582
Varanus_salvator : AAAC... 9968
Mertensiella_luschani : AA... 9974
Xenopus_laevis : AA... 9965

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*      10660      *      10680      *      10700      *      10720      *      10740      *      10760      *
Bos_taurus      : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Hylobates_lar  : AATGGGACAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Lemur_catta     : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Nycticebus_coucang : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Tarsius_bancanus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10098
Gorilla_gorilla : AATAGTAGCAAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Homo_sapiens   : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Papio_hamadryas : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Cebus_albifrons : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10092
Macaca_sylvanus : AATCATGGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Pongo_pygmaeus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Pan_paniscus   : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10104
Agkistrodon_piscivorus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10026
Pantherophis_guttatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10005
Dinodon_semicarinatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10008
Boa_constrictor : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10056
Python_regius  : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10056
Acrochordus_granulatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10038
Cylindrophis_ruffus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10020
Ovophis_okinavensis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10023
Xenopeltis_unicolor : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10062
Typhlops_reticulatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10002
Leptotyphlops_dulcis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10012
Caiman_crocodilus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10119
Alligator_sinensis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10161
Alligator_mississippiensis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Gavialis_gangeticus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10129
Crocodylus_moreletii : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10105
Dogania_subplana : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10044
Pelomedusa_subrufa : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Chrysemys_picta : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Chelonia_mydas : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10113
Tinamus_major : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10086
Smithornis_sharpei : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10092
Corvus_frugilegus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Vidua_chalybeata : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Buteo_buteo    : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10098
Falco_peregrinus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10092
Dromaius_novaeollandiae : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10098
Struthio_camelus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10086
Apteryx_haastii : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10098
Rhea_american : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Gallus_gallus  : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Ciconia_ciconia : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10098
Ciconia_boyciana : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10083
Iguana_iguana  : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10089
Fumeces_egregius : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10077
Sphenodon_punctatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10086
Sceloporus_occidentalis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Cordylus_warreni : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10071
Abronia_graminea : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10110
Shinisaurus_crocodilurus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10068
Varanus_komodoensis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10035
Rhineura_floridana : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10056
Geocalamus_acutus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10041
Diplometopon_zarudnyi : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10041
Amphisbaena_schmidti : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10053
Bipes_tridactylus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Bipes_canaliculatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 9705
Bipes_biporus  : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 9715
Anolis_carolinensis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10101
Ophisaurus_atnuatus : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10107
Varanus_salvator : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10107
Mertensiella_luschani : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095
Xenopus_laevis : AATAATAGTAAATGGCCATAAACAACACACCTAGGCTTCCGACACATGCAACCCAGCCGCTTTAAAGAAATGATATATAGCGCCATAAGCGGAAAGGAAAT 10095

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*      10920      *      10940      *      10960      *      10980      *      11000      *      11020      *      11040
Bos_taurus      : AGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361
Hylobates_lar  : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Lemur_catta     : GGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Nycticebus_coucang : GGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Tarsius_bancanus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10364
Gorilla_gorilla : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Homo_sapiens   : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361
Papio_hamadryas : GGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Cebus_albifrons : GGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10358
Macaca_sylvanus : GGCTGATGACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Pongo_pygmaeus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Pan_paniscus   : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10370
Agkistrodon_piscivorus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10286
Pantherophis_guttatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10265
Dinodon_semicarinatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10268
Boa_constrictor : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10316
Python_regius  : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10316
Acrochordus_granulatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10298
Cylindrophis_ruffus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10280
Ovophis_okinavensis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10283
Xenopeltis_unicolor : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10322
Typhlops_reticulatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10262
Leptotyphlops_dulcis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10275
Caiman_crocodilus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10385
Alligator_sinensis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10427
Alligator_mississippiensis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Gavialis_gangeticus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10395
Crocodylus_moreletii : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10371
Dogania_subplana : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10310
Pelomedusa_subrufa : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10358
Chrysemys_picta : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Chelonia_mydas : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10379
Tinamus_major : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10352
Smithornis_sharpei : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10358
Corvus_frugilegus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Vidua_chalybeata : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Buteo_buteo    : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10364
Falco_peregrinus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10358
Dromaius_novaeollandiae : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10364
Struthio_camelus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10352
Apteryx_haastii : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10364
Rhea_american : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361
Gallus_gallus  : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Ciconia_ciconia : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10364
Ciconia_boyciana : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10349
Iguana_iguana  : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10355
Eumeces_egregius : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10355
Sphenodon_punctatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10343
Sceloporus_occidentalis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10352
Cordylus_warreni : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361
Abronia_graminea : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10337
Shinisaurus_crocodilurus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10376
Varanus_komodoensis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10334
Rhineura_floridana : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10301
Geocalamus_acutus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10322
Diplometopon_zarudnyi : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10307
Amphisbaena_schmidti : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10307
Bipes_tridactylus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10319
Bipes_canaliculatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361
Bipes_biporus  : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 9971
Anolis_carolinensis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 9981
Ophisaurus_atnuatus : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10367
Varanus_salvator : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10373
Mertensiella_luschani : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10373
Xenopus_laevis : ATACTACACCAACGCGGGCCCTGAAATACAAATATGGCCGCTGTAAGAGTAAAGACAGCGGTAATATTTGCGAATATGGNCBAACCCGGATCCCTAACCAGTAATAATAAAGCG : 10361

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		11180	*	11200	*	11220	*	11240	*	11260	*	11280	*	11300	
Bos_taurus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10578
Hylobates_lar	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Lemur_catta	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10584
Nycticebus_coucang	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Tarsius_bancanus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581
Gorilla_gorilla	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Homo_sapiens	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10578
Papio_hamadryas	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Cebus_albifrons	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10575
Macaca_sylvanus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10584
Pongo_pygmaeus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Pan_paniscus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Agkistrodon_piscivorus	:	ATAGCA	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10500
Pantherophis_guttatus	:	ATAGCA	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10479
Dinodon_semicarinatus	:	ATAGCA	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10482
Boa_constrictor	:	GGTGC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10530
Python_regius	:	TCAGCA	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10530
Acrochordus_granulatus	:	ACCA	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10512
Cylindrophis_ruffus	:	AGGC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10494
Ovophis_okinavensis	:	AGGC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10497
Xenopeltis_unicolor	:	AGGC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10536
Typhlops_reticulatus	:	CTGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10480
Leptotyphlops_dulcis	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10486
Caiman_crocodilus	:	ACNGCC	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10599
Alligator_sinensis	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10641
Alligator_mississippiensis	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581
Gavialis_gangeticus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10609
Crocodylus_moreletii	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10585
Dogania_subplana	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10527
Pelomedusa_subrufa	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10575
Chrysemys_picta	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Chelonia_mydas	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10599
Tinamus_major	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10575
Smithornis_sharpei	:	ACCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581
Corvus_frugilegus	:	ACNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10593
Vidua_chalybeata	:	ACNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10590
Buteo_buteo	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10590
Falco_peregrinus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Dromaius_novaeollandiae	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581
Struthio_camelus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Apteryx_haastii	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10575
Rhea_american	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Gallus_gallus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10584
Ciconia_ciconia	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10590
Ciconia_boycinana	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10587
Iguana_iguana	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10566
Eumeces_egregius	:	TCGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10572
Sphenodon_punctatus	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	: -
Sceloporus_occidentalis	:	ATNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10560
Cordylus_warreni	:	TCGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10569
Abronia_graminea	:	ATNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10578
Shinisaurus_crocodilurus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10554
Varanus_komodoensis	:	TCGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10596
Rhineura_floridana	:	CTNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10551
Geocalamus_acutus	:	CTNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10521
Diplometopon_zarudnyi	:	CTGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10539
Amphisbaena_schmidti	:	CTGG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10524
Bipes_tridactylus	:	TCAG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10524
Bipes_canaliculatus	:	ACNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10536
Bipes_biporus	:	ACNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10578
Anolis_carolinensis	:	TCAG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10188
Ophisaurus_atnuatus	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10198
Varanus_salvator	:	TCNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10584
Mertensiella_luschani	:	TCNG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581
Xenopus_laevis	:	CGCG	TAAT	GTACNA	CCAGGC	TAATAG	CCAGGAA	AGAAATA	AAAC	TAATAA	CAAC	TACCC	CC	-----	: 10581

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*      11320      *      11340      *      11360      *      11380      *      11400      *      11420      *      114
Bos_taurus : -----AAGCCCTCAAGTCAAACTGGAGGGATTCACCCCAAAATACATAGCGGAGCGCTCAGCAAAAATATATANAAGCCAAAATCGCAAGCCCTCTAGCACTAACTGACAGCAAGC : 10706
Hylobates_lar : -----GACAATTCATTTCCAACTATGGGATCTACCCCAACCCACCCCGCCCTCCCTACCGAAGCTTACCAATAGGCCAAAACCGCCATCACTCTAGAGCAAGCCGACAGCAAA : 10715
Lemur_catta : -----GACATTCACAAATTTCAAACTCTAGGGTTTACCCCAATACCAACCCCGCCCTAAACCCCTACATAAAGCTCAAGCAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10712
Nycticebus_coucang : -----GCTCAACCACTTTCCCAACTCTGGGTTTCCCAAAATCAAAACCCCGCTCAAGCTAAATATCTAAAGCTCAAGCAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10715
Tarsius_bancanus : -----GAGCCCTCCATTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAACAGGATCCGCTCTAGCACTAACTGGATAGCAAA : 10709
Gorilla_gorilla : -----GACATTTACCTCCCAAACTATGGGTTTACCCCAAAATACATAGCGGCAATACATAGCGGCTCTCAAGAGCCAAAATCAAGCCCTCTAGCACTAACTGGATAGCAAA : 10715
Homo_sapiens : -----TGACATTTATTTCCCAACTATGGGATCTACCCCAACCCACCCCGCCCTCCCTACCGAAGCTTACCAATAGGCCAAAACCGCCCTCTAGCACTAACTGGATAGCAAA : 10706
Papio_hamadryas : -----CAAACTTCAAAATTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10715
Cebus_albifrons : -----AAAAATACAACTTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCCCAATTAAGCCCAATCAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10703
Macaca_sylvanus : -----CAAACTTCAAAATTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10712
Pongo_pygmaeus : -----CCCGCATTTACCTTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10715
Pan_paniscus : -----TAATCAATTTACCTTTCCCAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10715
Agkistrodon_piscivorus : -----AGCATCAACCTCTTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10625
Pantherophis_guttatus : -----AAACAAAACCTGTTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10604
Dinodon_semicarinatus : -----AAACAAAATATATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10607
Boa_constrictor : -----AAATCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10655
Python_regius : -----ACCTCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10655
Acrochordus_granulatus : -----ACCTCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10637
Cylindrophis_ruffus : -----ACCTCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10619
Ovophis_okinavensis : -----ACCTCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10622
Xenopeltis_unicolor : -----ACCTCAACCTTATTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10661
Typhlops_reticulatus : -----CAACCCCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10610
Leptotyphlops_dulcis : -----CCAAACAATTTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10608
Caiman_crocodilus : -----CCAAACAATTTTCCCAAACTATGGGTTTCCCGCAAGCTGATACCGCCCTCAAGCAAAATATAATANAAGCCAAAATACAGGCATCACTCTAGCACTAACTGGATAGCAAA : 10727
Alligator_sinensis : -----ACCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10769
Alligator_mississippiensis : -----ACCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Gavialis_gangeticus : -----ACCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10737
Crocodylus_moreletii : -----ACCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10713
Dogania_subplana : -----CCACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10649
Pelomedusa_subrufa : -----ACCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10703
Chrysemys_picta : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Chelonia_mydas : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10721
Tinamus_major : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10697
Smithornis_sharpei : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10703
Corvus_frugilegus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10715
Vidua_chalybeata : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10712
Buteo_buteo : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10712
Falco_peregrinus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Dromaius_novaeollandiae : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10703
Struthio_camelus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Apteryx_haastii : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10697
Rhea_americanana : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Gallus_gallus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10706
Ciconia_ciconia : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10712
Ciconia_boyciiana : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Iguana_iguana : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10691
Fumees_egregius : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10700
Sphenodon_punctatus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : -
Sceloporus_occidentalis : -----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10685
Cordylus_warreni : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10694
Abronia_graminea : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10697
Shinisaurus_crocodilurus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10673
Varanus_komodoensis : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10709
Rhinura_floridana : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10664
Geocalamus_acutus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10640
Diplometopon_zarudnyi : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10667
Amphisbaena_schmidti : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10649
Bipes_tridactylus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10646
Bipes_canaliculatus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10658
Bipes_biporus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10700
Anolis_carolinensis : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10313
Ophisaurus_attenuatus : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10317
Varanus_salvator : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10700
Mertensiella_luschani : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10706
Xenopus_laevis : -----CAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN-----ACCTCAACCTTACCAACCCCAAAATCAATCTATTTTAN : 10706

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40      *      11460      *      11480      *      11500      *      11520      *      11540      *      11560      *
Bos_taurus      : GATCCACCAAAAAACAATCCG-----GGCCCAAAATAAAGGCAATACCCGGTCAAAACCAAAAAGGCCGATCAAAATATAATCTCCCTCCGCTAAACGACAAATCCCTATAGCAATAATCTATAG  : 10833
Hylobates_lar   : ACTAATACCAAAAACAATCCG-----GCCCAAAATCGCCCGCCCAATATTTTCTTAAAAAATGAAATCAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Lemur_catta     : AACATATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Nycticebus_coucang : AACATATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Tarsius_bancanus : AACATATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10836
Gorilla_gorilla : ACTATACCAAAAACAATCCG-----GGCAAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Homo_sapiens    : GCTAATACCAAAAACAATCCG-----GTCACCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10833
Papio_hamadryas : ATCAATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Cebus_albifrons : ATCAATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10830
Macaca_sylvanus : ATCAATACCAAAAACAATCCG-----CAATCAAAAATACAAAGGCTACCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Pongo_pygmaeus  : ACTAATACCAAAAACAATCCG-----GTCACCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Pan_paniscus    : ACTAATACCAAAAACAATCCG-----GTCACCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Agkistrodon_piscivorus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10752
Pantherophis_guttatus : CTAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10731
Dinodon_semicarinatus : CTAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10734
Boa_constrictor : CTAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10782
Python_regius   : CTAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10782
Acrochordus_granulatus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10764
Cylindrophis_ruffus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10746
Ovophis_okinavensis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10749
Xenopeltis_unicolor : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10788
Typhlops_reticulatus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10737
Leptotyphlops_dulcis : CTAGGCCCAAAAGGCTCCCTCAAAA-----GTCACCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10735
Caiman_crocodilus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10857
Alligator_sinensis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10899
Alligator_mississippiensis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Gavialis_gangeticus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10867
Crocodylus_moreletii : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10843
Dogania_subplana : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10773
Pelomedusa_subrufa : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10830
Chrysemys_picta : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Chelonia_mydas : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10851
Tinamus_major   : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10827
Smithornis_sharpei : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10833
Corvus_frugilegus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10845
Vidua_chalybeata : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Buteo_buteo     : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Falco_peregrinus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Dromaius_novaeollandiae : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10833
Struthio_camelus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Apteryx_haastii : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10827
Rhea_americanana : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Gallus_gallus   : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10836
Ciconia_ciconia : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10842
Ciconia_boyciana : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10839
Iguana_iguana   : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10818
Fumecea_egregius : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10827
Sphenodon_punctatus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : -
Sceloporus_occidentalis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10812
Cordylus_warreni : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10824
Abronia_graminea : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10824
Shinisaurus_crocodilurus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10800
Varanus_komodoensis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10833
Rhineura_floridana : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10794
Geocalamus_acutus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10770
Diplometopon_zarudnyi : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10797
Amphisbaena_schmidti : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10776
Bipes_tridactylus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10770
Bipes_capaliculatus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10779
Bipes_banari : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10824
Anolis_carolinensis : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10443
Ophisaurus_atnuatus : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10444
Varanus_salvator : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10824
Mertensiella_luschani : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10833
Xenopus_laevis  : ATAGGCCCAAAAGGCTCCCTCAAAA-----ACAATCCCAAAATTCAGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT  : 10836

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	*	11720	*	11740	*	11760	*	11780	*	11800	*	11820	*	11
Bos_taurus	:	A	C	A	G	C	A	A	G	G	A	G	G	10997
Hylobates_lar	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Lemur_catta	:	A	C	A	G	C	A	A	G	G	A	G	G	10988
Nycticebus_coucang	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Tarsius_bancanus	:	A	C	A	G	C	A	A	G	G	A	G	G	10988
Gorilla_gorilla	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Homo_sapiens	:	A	C	A	G	C	A	A	G	G	A	G	G	10985
Papio_hamadryas	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Cebus_albifrons	:	A	C	A	G	C	A	A	G	G	A	G	G	10982
Macaca_sylvanus	:	A	C	A	G	C	A	A	G	G	A	G	G	10991
Pongo_pygmaeus	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Pan_paniscus	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Agkistrodon_piscivorus	:	A	C	A	G	C	A	A	G	G	A	G	G	10907
Pantherophis_guttatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10886
Dinodon_semicarinatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10892
Boa_constrictor	:	A	C	A	G	C	A	A	G	G	A	G	G	10937
Python_regius	:	A	C	A	G	C	A	A	G	G	A	G	G	10937
Acrochordus_granulatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10919
Cylindrophis_ruffus	:	A	C	A	G	C	A	A	G	G	A	G	G	10904
Ovophis_okinavensis	:	A	C	A	G	C	A	A	G	G	A	G	G	10907
Xenopeltis_unicolor	:	A	C	A	G	C	A	A	G	G	A	G	G	10943
Typhlops_reticulatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10901
Leptotyphlops_dulcis	:	A	C	A	G	C	A	A	G	G	A	G	G	10899
Caiman_crocodilus	:	A	C	A	G	C	A	A	G	G	A	G	G	11003
Alligator_sinensis	:	A	C	A	G	C	A	A	G	G	A	G	G	11051
Alligator_mississippiensis	:	A	C	A	G	C	A	A	G	G	A	G	G	11000
Gavialis_gangeticus	:	A	C	A	G	C	A	A	G	G	A	G	G	11067
Crocodylus_moreletii	:	A	C	A	G	C	A	A	G	G	A	G	G	11043
Dogania_subplana	:	A	C	A	G	C	A	A	G	G	A	G	G	10922
Pelomedusa_subrufa	:	A	C	A	G	C	A	A	G	G	A	G	G	10985
Chrysemys_picta	:	A	C	A	G	C	A	A	G	G	A	G	G	11000
Chelonia_mydas	:	A	C	A	G	C	A	A	G	G	A	G	G	11000
Tinanus_major	:	A	C	A	G	C	A	A	G	G	A	G	G	10976
Smithornis_sharpei	:	A	C	A	G	C	A	A	G	G	A	G	G	10982
Corvus_frugilegus	:	A	C	A	G	C	A	A	G	G	A	G	G	10997
Vidua_chalybeata	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Buteo_buteo	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Falco_peregrinus	:	A	C	A	G	C	A	A	G	G	A	G	G	10997
Dromaius_novaehollandiae	:	A	C	A	G	C	A	A	G	G	A	G	G	10985
Struthio_camelus	:	A	C	A	G	C	A	A	G	G	A	G	G	10991
Apteryx_haastii	:	A	C	A	G	C	A	A	G	G	A	G	G	10976
Rhea_americanana	:	A	C	A	G	C	A	A	G	G	A	G	G	10994
Gallus_gallus	:	A	C	A	G	C	A	A	G	G	A	G	G	10991
Ciconia_ciconia	:	A	C	A	G	C	A	A	G	G	A	G	G	10991
Ciconia_boycciana	:	A	C	A	G	C	A	A	G	G	A	G	G	10988
Iguana_iguana	:	A	C	A	G	C	A	A	G	G	A	G	G	10970
Eumeces_egregius	:	A	C	A	G	C	A	A	G	G	A	G	G	10979
Sphenodon_punctatus	:	A	C	A	G	C	A	A	G	G	A	G	G	9173
Sceloporus_occidentalis	:	A	C	A	G	C	A	A	G	G	A	G	G	10964
Cordylus_warreni	:	A	C	A	G	C	A	A	G	G	A	G	G	10979
Abronia_graminea	:	A	C	A	G	C	A	A	G	G	A	G	G	10988
Shinisaurus_crocodilurus	:	A	C	A	G	C	A	A	G	G	A	G	G	10949
Varanus_komodoensis	:	A	C	A	G	C	A	A	G	G	A	G	G	11000
Rhineura_floridana	:	A	C	A	G	C	A	A	G	G	A	G	G	10970
Geocalamus_acutus	:	A	C	A	G	C	A	A	G	G	A	G	G	10919
Diplometopon_zarudnyi	:	A	C	A	G	C	A	A	G	G	A	G	G	10946
Amphisbaena_schmidti	:	A	C	A	G	C	A	A	G	G	A	G	G	10925
Bipes_tridactylus	:	A	C	A	G	C	A	A	G	G	A	G	G	10919
Bipes_canaliculatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10928
Bipes_biporus	:	A	C	A	G	C	A	A	G	G	A	G	G	10973
Anolis_carolinensis	:	A	C	A	G	C	A	A	G	G	A	G	G	10679
Ophisaurus_atnuatus	:	A	C	A	G	C	A	A	G	G	A	G	G	10607
Varanus_salvator	:	A	C	A	G	C	A	A	G	G	A	G	G	10982
Mertensiella_luschani	:	A	C	A	G	C	A	A	G	G	A	G	G	10991
Xenopus_laevis	:	A	C	A	G	C	A	A	G	G	A	G	G	10985

	840	*	11860	*	11880	*	11900	*	11920	*	11940	*	11960	*													
Bos_taurus	:	TTGGG	CAAGC	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11130	
Hylobates_lar	:	TTGGG	CAAGC	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Lemur_catta	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11121	
Nycticebus_coucang	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Tarsius_bancanus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11121	
Gorilla_gorilla	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Homo_sapiens	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11118	
Papio_hamadryas	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Cebus_albifrons	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11115	
Macaca_sylvanus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11124	
Pongo_pygmaeus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Pan_paniscus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Agkistrodon_piscivorus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11034
Pantherophis_guttatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11013
Dinodon_semicarinatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11019
Boa_constrictor	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11064
Python_regius	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11064
Acrochordus_granulatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11046
Cylindrophis_ruffus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11031
Ovophis_okinavensis	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11034
Xenopeltis_unicolor	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11070
Typhlops_reticulatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11028
Leptotyphlops_dulcis	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11032
Caiman_crocodilus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11127	
Alligator_sinensis	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11184	
Alligator_mississippiensis	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11133	
Gavialis_gangeticus	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11200	
Crocodylus_moreletii	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11176	
Dogania_subplana	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11055	
Pelomedusa_subrufa	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11118	
Chrysemys_picta	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11133	
Chelonia_mydas	:	TAAGGG	TAAAG	CTTTTAA	TATAG	GGGAGG	AAAG	GGTAC	TTTGC	TATA	AAAGCC	AGGTA	AGAA	AGAT	CGAA	TTTGC	TA	AAGCC	TTT	AGCC	AA	TT	GT	AG	:	11133	
Tinanus_major	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11109
Smithornis_sharpei	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11115
Corvus_frugilegus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11130
Vidua_chalybeata	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11127
Buteo_buteo	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11127
Falco_peregrinus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11130
Dromaius_novaeollandiae	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11118
Struthio_camelus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11124
Apteryx_haastii	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11109
Rhea_americana	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11127
Gallus_gallus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11124
Ciconia_ciconia	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11124
Ciconia_boyciana	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11121
Iguana_iguana	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11103
Eumeces_egregius	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11112
Sphenodon_punctatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	9306
Sceloporus_occidentalis	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11097
Cordylus_warreni	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11112
Abronia_graminea	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11121
Shinisaurus_crocodilurus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11082
Varanus_komodoensis	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11133
Rhineura_floridana	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11103
Geocalamus_acutus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11052
Diplometopon_zarudnyi	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11079
Amphisbaena_schmidti	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11058
Bipes_tridactylus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11052
Bipes_canaliculatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11061
Bipes_biporus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	11106
Anolis_carolinensis	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	10812
Ophisaurus_attenuatus	:	TCGGCC	TGAA	CTATA	TGCTA	GGGGGA	TGGT	TCAT	TTTGG	TATAT	CGG	GGG	AAAAG	GGGG	AGCC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	:	10740
Varanus_salvator	:</																										





	2240	*	12260	*													
Bos_taurus	:	-----	-----	-----	: 11370												
Hylobates_lar	:	-----	-----	-----	: 11367												
Lemur_catta	:	-----	-----	-----	: -												
Nycticebus_coucang	:	-----	-----	-----	: 11370												
Tarsius_bancanus	:	-----	-----	-----	: 11349												
Gorilla_gorilla	:	-----	-----	-----	: 11367												
Homo_sapiens	:	-----	-----	-----	: 11358												
Papio_hamadryas	:	-----	-----	-----	: 11367												
Cebus_albifrons	:	GGG	-----	-----	: 11364												
Macaca_sylvanus	:	-----	-----	-----	: 11367												
Pongo_pygmaeus	:	-----	-----	-----	: 11367												
Pan_paniscus	:	-----	-----	-----	: 11367												
Agkistrodon_piscivorus	:	AGG	GGGG	GGG	CCG	CC	TT	-----	: 11265								
Pantherophis_guttatus	:	CCGG	GGG	GG	TT	CG	CCG	-----	: 11235								
Dinodon_semicarinatus	:	CCG	GGG	GG	TT	GG	CC	TT	-----	: 11241							
Boa_constrictor	:	CCG	GG	GG	GG	TT	GG	AA	TT	-----	: 11292						
Python_regius	:	CCGG	AGG	GGG	TT	GG	AA	CC	TT	-----	: 11298						
Acrochordus_granulatus	:	AAG	GG	CG	AA	AA	TT	GG	AA	TT	-----	: 11280					
Cylindrophis_ruffus	:	CCG	GGGG	GGG	TT	GG	CC	AA	TT	-----	: 11265						
Ovophis_okinavensis	:	CCG	TT	GG	GG	TT	GG	CC	TT	-----	: 11262						
Xenopeltis_unicolor	:	CCG	GGGG	GGG	TT	GG	CC	AA	TT	-----	: 11304						
Typhlops_reticulatus	:	GA	CG	AA	GG	GGGG	TT	AA	GG	CG	AA	-----	: 11274				
Leptotyphlops_dulcis	:	GG	TT	GG	GGG	GG	TT	GG	CG	GG	TT	-----	: 11257				
Caiman_crocodylus	:	TT	CG	GGGG	GG	TT	CG	CG	TT	CG	TT	-----	: 11376				
Alligator_sinensis	:	CCGG	CG	GGG	GG	TT	CG	CG	TT	CG	TT	-----	: 11418				
Alligator_mississippiensis	:	CCG	TT	AGGG	GG	TT	CG	CG	TT	CG	TT	-----	: 11367				
Gavialis_gangeticus	:	CCG	CG	GGG	GG	TT	CG	CG	TT	CG	TT	-----	: 11443				
Crocodylus_moreletii	:	CCG	CG	GGG	GG	TT	CG	CG	TT	CG	TT	-----	: 11419				
Dogania_subplana	:	AG	TT	GG	GG	TT	GG	TT	CG	AA	TT	-----	: 11295				
Pelomedusa_subrufa	:	GG	TT	GGG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11358			
Chrysemys_picta	:	AG	TT	GG	GGG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11373		
Chelonia_mydas	:	GG	CG	GG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11373		
Tinamus_major	:	GG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11346		
Smithornis_sharpei	:	AG	CG	CG	CG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11352		
Corvus_frugilegus	:	AG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11367		
Vidua_chalybeata	:	GG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11361		
Buteo_buteo	:	GG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11361		
Falco_peregrinus	:	GG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11367		
Dromaius_novaeollandiae	:	AG	CG	GGGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11355		
Struthio_camelus	:	AG	CG	GGGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11361		
Apteryx_haastii	:	AG	CG	GGGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11346		
Rhea_americana	:	AG	CG	GGGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11364		
Gallus_gallus	:	GG	CG	GGGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11361		
Ciconia_ciconia	:	AG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11361		
Ciconia_boyciana	:	AG	CG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11358		
Iguana_iguana	:	GG	CG	GG	GGG	GG	TT	CG	AA	CG	AA	TT	-----	: 11343			
Eumeces_egregius	:	GG	CG	CG	GGG	GG	TT	CG	AA	CG	AA	TT	-----	: 11352			
Sphenodon_punctatus	:	GG	CG	CG	GG	GG	TT	CG	AA	CG	AA	TT	-----	: 9546			
Sceloporus_occidentalis	:	AG	CG	GG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11334		
Cordylus_warreni	:	CC	GG	GG	GGG	GG	TT	CG	AA	CG	AA	TT	-----	: 11346			
Abronia_graminea	:	CC	GA	CG	GG	AA	CG	GG	TT	CG	AA	CG	AA	TT	-----	: 11352	
Shinisaurus_crocodylurus	:	TT	CG	CG	GG	GG	TT	CG	AA	CG	AA	TT	-----	: 11322			
Varanus_komodoensis	:	GG	CG	CG	GG	GG	TT	CG	AA	CG	AA	TT	-----	: 11379			
Rhineura_floridana	:	CG	CG	CG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	-----	: 11331
Geocalamus_acutus	:	AG	CG	GG	GGG	GG	AA	GG	TT	CG	AA	CG	AA	TT	-----	: 11304	
Diplometopon_zarudnyi	:	AG	GG	GGGG	GG	AA	GG	GG	GG	GG	GG	GG	GG	GG	GG	-----	: 11334
Amphisbaena_schmidti	:	CCGG	CG	GGG	GG	TT	CG	AA	CG	AA	CG	AA	TT	-----	: 11313		
Bipes_tridactylus	:	GG	AA	GGGG	GG	AA	GG	GG	AA	GG	GG	AA	GG	GG	AA	-----	: 11277
Bipes_canaliculatus	:	AA	CG	CG	GGG	GG	AA	GG	GG	AA	GG	GG	AA	GG	GG	-----	: 11292
Bipes_biporus	:	AG	GA	CG	GG	GG	TT	CG	AA	CG	AA	CG	AA	TT	-----	: 11340	
Anolis_carolinensis	:	GG	CG	GG	GG	AA	GG	GG	AA	GG	GG	AA	GG	GG	AA	-----	: 11052
Ophisaurus_atnuatus	:	AA	TT	CG	GG	GG	CG	AA	GG	CG	AA	GG	CG	AA	GG	-----	: 10977
Varanus_salvator	:	GG	CG	GGG	GG	AA	GG	GG	AA	GG	GG	AA	GG	GG	AA	-----	: 11361
Mertensiella_luschani	:	GG	CG	GG	GG	AA	GG	GG	AA	GG	GG	AA	GG	GG	AA	-----	: 11358
Xenopus_laevis	:	AA	AA	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	-----	: 11346