#NEXUS

[The repeated region of the BRCA1 alignment that was excluded from phylogenetic analses is given in a character set at the end of the file; scientific names and accession numbers are given elsewhere in Supplementary Information.]

BEGIN DATA;

DIMENSIONS NTAX=52 NCHAR=3031;

FORMAT MISSING=? GAP=- INTERLEAVE DATATYPE=DNA ;

OPTIONS MSTAXA=UNCERTAIN ;

MATRIX

[ 10 20 30 40 50]

[ . . . . .]

Nine\_Banded\_Armadillo CTGTGGCACAAATACTCATGCCAACTTATTACAGCATGAGAACAGCAGTT [50]

Hairy\_Armadillo ATGTGGCACAAATACTCATGCCAACTTATTACAGCATGAGAACAGCAGTT [50]

Anteater ATGTGGCACAAATATTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Sloth ATGTGGCACATATACTCATGCCAGCTCATTACAGCGTGAGAACAGCAGTT [50]

Flying\_Squirrel ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Mouse ATGTGGCACAGATGCTCATGCCAGCTCATTACAGCCTGAGACCAGCAGTT [50]

Rat GTGTGGCACAGATGCTCGTGCCAGCTCATTACAGCGTGGGACCCGCAGTT [50]

Old\_World\_Porcupine ?????????????????????????????????????????????????? [50]

Jackrabbit ?????????????????????????????????????????????????? [50]

Flying\_Fox ATGTGGCACAAATGCTCATGCCAGCTCTTTACAGCATGAGAAC---AGTT [47]

Dog\_Faced\_Fruit\_Bat ATGTGGCACAAATACTCATGCCAACTCATTACAGCATGAGAACAGCAGTT [50]

False\_Vampire\_Bat GTGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAATT [50]

Leaf\_Nosed\_Bat ATGTGGCACAAATACTCATGCCAGCTCTTTACATTATGAGCACAGCAGTT [50]

Free\_Tailed\_Bat ATGTGGCACAGATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Little\_Brown\_Bat ATGTGGCACAGATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Tomb\_Bat ATGTGGCACAAGTACTCATGCCAGCTCAGTACAGCATGAGAACAGCAGTT [50]

Round\_Eared\_Bat ???????????????????????GCTCATTA?AGC?TGAGAACAGCAGTT [50]

Human ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Galago ATGTGGCAAAAATACTCATGCCAGCTCATTACAGCATGAGAGCAGCAGTT [50]

Chimpanzee ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Gorilla ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Orangutan ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Howler\_Monkey ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Rhesus ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAAC---AGTT [47]

Tree\_Shrew ATGTGGCATAAATACTTATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Flying\_Lemur ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Mole ATGTGGCATAAATACTCATGCCAGCTTATTACAGCATGAAAACAGCAGTT [50]

Hedgehog ??????????????????????????????????CGTGAGAACAGCAGTT [50]

Pangolin ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Horse ATGTGGCACAAATACTCATGCCAGCTCATTGCAGCATGAGAACAGCAGTT [50]

Rhino ATGTGGCACGAATACTCATGCCAGCTCATTGCAGCATGAGAACAGCAGTG [50]

Llama ATGTGGCACAGATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Cow ATGTGGCACAGATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Pig ATGTGGCACAGATACTCATGCCAGCTCGTTACAGCATGAGAACAGCAGTT [50]

Hippo ATGTGGCACAGATACTCGTGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Sperm\_Whale ATGTGGCACAGATACTCATGCCAGCTCATTACAGCATGAAAACAGCAGTT [50]

Humpback\_Whale ATGTGGCACAGATACTCATGCCAGCTCATTACAACATGAAAACAGCAGTT [50]

Cat ATGTGCCACAAATACTCGTGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Dog ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Dugong ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAATAGCAGTT [50]

Manatee ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAATAGCAGTT [50]

African\_Elephant ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATAAGAACAGCAGTT [50]

Asian\_Elepphant ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATAAGAACAGCAGTT [50]

Rock\_Hyrax ATGTGGCACAGATACTTGTGCCAGCTCGTTACAGCATGAGAACAGCAGTT [50]

Tree\_Hyrax ????????CAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Madagascar\_Hedgehog ATGTGGAACAAATACGCTTGCCAACTCATTACAGCGTGAGAACTACAGTT [50]

Tenrec ATGTGGCACACGTACGCTTGCCAGCTCGGCACAGCGCGAGGACTGCAGCT [50]

Golden\_Mole ATGTGGCACAAATACTCATGCCAGCTCATTACAGCATGAGAACAGCAGTT [50]

Long\_Eared\_Elephant\_Shrew ATGTGGCACAGATCCTCATGCCAGCTCATTACAGCATGAGAGCAGCAGTT [50]

Giant\_Elephant\_Shrew ATGTGCCACAAGTATTCATGCCAGCTCATTACTGCATGAGAACAGCAGGT [50]

Aardvark ATGTGGCACAAATACTCATGCCAGCTCGTTACAGCATGAGAACAGCAGTT [50]

Wombat ??????????????????TGCCAGTTCATTACTTCCTAAAACCAGCAGTT [50]

[ 60 70 80 90 100]

[ . . . . .]

Nine\_Banded\_Armadillo TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Hairy\_Armadillo TATTACTCACTAAAGACAGAGTGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Anteater TATTACTCACTAAAGACAGAAAGAATGTAGAAAAGGCTGAATTCTGTGAT [100]

Sloth TATTACTCACTAAAAACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Flying\_Squirrel TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Mouse TATTGCTCATTGAAGACAGAATGAATGCAGAAAAGGCTGAATTCTGTAAT [100]

Rat TATTGTTCACTGAGGACAGACTGGATGCAGAAAAGGCTGAATTCTGTGAT [100]

Old\_World\_Porcupine ?????????????????????????????????????????????????? [100]

Jackrabbit ????????????????????????????????AAGGCTGAATTCTGTAAT [100]

Flying\_Fox TATTATACACTAAAGACAGAATGAATGTAGAAAAGACTGACTTCTGTAAT [97]

Dog\_Faced\_Fruit\_Bat TATTATACACTAAAGACAGAATGAATGTAGAAAAGACTGACTTCTGTAAT [100]

False\_Vampire\_Bat TATTACTGACTGAAGACATAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Leaf\_Nosed\_Bat TATTACTCACTGAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Free\_Tailed\_Bat TACTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Little\_Brown\_Bat TACTACTCACCAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Tomb\_Bat TACTACTCACTAAAGACAGAATGAACGTAGAAAAGCTTGACTTCTGTAAT [100]

Round\_Eared\_Bat TACTGCTCACTGAGGACCAGATGAGTGTGGGAAAGGCTGAATTCCGTCAT [100]

Human TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Galago TATTACTCACTAAAGACAAAATGAATGTAGAAAAGGCTGAATTTTGTAAT [100]

Chimpanzee TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Gorilla TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Orangutan TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Howler\_Monkey TGTTACTCACTAAAGACACACTGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Rhesus TGTTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [97]

Tree\_Shrew TATTACTCACTAAGGACAGAATGAATGTAGAAAAGGCTGAATTGTGTAAT [100]

Flying\_Lemur TATTACGCACTAAAGACAGAATAAATGTTGAAAAGACTGAATTCTGTAAT [100]

Mole TATTACTCACTGAAAACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Hedgehog TATTACTCACTAAAGGCAAAATGAATGTAGAAAAGGCTGAATTCTGTAGT [100]

Pangolin TATTACTCACTAAAGACAGAATAAATGTAGAAAAGACTGAATTCTGTAAT [100]

Horse TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Rhino TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Llama TATTACTCACTAAGGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Cow TATTGCTCACTGAAAACAGACTGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Pig TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTTTGTAAT [100]

Hippo TATTACTCACTAAAGACAGAATGAATGCAGAAAAGGCTGAATTCTGTAAT [100]

Sperm\_Whale TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Humpback\_Whale TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Cat TATTACTCACTAAAGGCAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Dog TATTACTCACTAAACACAGAATGAATGTAGAAAAGGCTGAAATCTGTAAT [100]

Dugong TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTCAT [100]

Manatee TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTCAT [100]

African\_Elephant TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAC [100]

Asian\_Elepphant TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAC [100]

Rock\_Hyrax TATTACTCACTAAAGACAGAATGGATGTAGAAAAGGCTGAATTCTGTAGT [100]

Tree\_Hyrax TATTACTCACTAAAGACAGAATGGATGTAGAAAAGGCTGAATTCTGTAGT [100]

Madagascar\_Hedgehog TATTACTCACTAAAGACAGACTGAATGTAGAAAAGGCTGGATTCTGTAAT [100]

Tenrec TATTACTCACCGAAGACAGACTGGATGGAGAAAAGGCTGGATTCTGCAAG [100]

Golden\_Mole TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Long\_Eared\_Elephant\_Shrew TATTACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTATAAT [100]

Giant\_Elephant\_Shrew TATTGCTCAGTAAAGACAGAATGGATGTAGAAAAGGCTGAATTCTGTAAT [100]

Aardvark TATCACTCACTAAAGACAGAATGAATGTAGAAAAGGCTGAATTCTGTAAT [100]

Wombat TATTGCCCAACACAGACAGAATGAATGTAGAAAAGGCTGAACTCTGCCAT [100]

[ 110 120 130 140 150]

[ . . . . .]

Nine\_Banded\_Armadillo AAAAGCAAACAGCCTGGCTTAGCAAGGCGCCAACAGAGCAGATGGGCTGA [150]

Hairy\_Armadillo AAAAGCAAACAGCCTGGCTTAGCAAGGCGCCAACAGAGCAGATGGGCTGA [150]

Anteater AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGCAGAGCAGATGGGCTGA [150]

Sloth AAAAGCAAGCAGCCTGGCTTAGCAAGGAGCCAACAGAACAGATGGGCTGA [150]

Flying\_Squirrel AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGCAGAGCAGATGGGCTAA [150]

Mouse AAAAGCAAACAGCCTGGCATAGCAGTGAGCCAGCAGAGCAGATGGGCTGC [150]

Rat AGAAGCAAACAGTCTGGCGCAGCAGTGAGCCAGCAGAGCAGATGGGCTGA [150]

Old\_World\_Porcupine ???????????????????????????AGCCAACAGAGCAGGTGGGCTGA [150]

Jackrabbit AAGAGCAAACAGCCTGGCTTAGCAAGAAGCCAACAGAGCAGATGGGCTGA [150]

Flying\_Fox AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAACAGATGGGTTGA [147]

Dog\_Faced\_Fruit\_Bat AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGCAGAACAGATGGGTTGA [150]

False\_Vampire\_Bat AAAAGCAAACAGCCTGTGTTAGCAAGGAGCCAGCAGAGCAGATGGGCTAA [150]

Leaf\_Nosed\_Bat AAAAGCAAGCAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Free\_Tailed\_Bat AAAAGCAAGCAGCCTGGCTTAGCAAAGAGCCAGCAGAGCAGATGGGCTGA [150]

Little\_Brown\_Bat AAAAGCAAGCAGCCTGGCTTAGCAAGGAGCCAGCAGAGCAGATGGGCTGA [150]

Tomb\_Bat AAAAGCAAGCAGCCTGGCTTAGCAAGGAGCCAGCAGAGCAGATGGGCTGA [150]

Round\_Eared\_Bat GAAAGCAAGCAGCCCGGCTTAGCGAGGAGCCAGCAGAGCAGATGGGCTGA [150]

Human AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGG [150]

Galago AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATCGGCTCA [150]

Chimpanzee AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGG [150]

Gorilla AAAAACAAACAGCCTGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGG [150]

Orangutan AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGG [150]

Howler\_Monkey AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGA [150]

Rhesus AAAAGCAAACAGCCTGGCTTGGCAAGGAGCCAACATAACAGATGGACTGG [147]

Tree\_Shrew AAAAGCCAACAACCTGACTTAGCAAGGAGCCAGCAGAGCAGATGGACTGA [150]

Flying\_Lemur AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGGAGAGCAGATGGGCTGA [150]

Mole AAAAGCAAACAGCCTGACTTAGCAAAGAGCCAGCAGAACAGATGGGCTGA [150]

Hedgehog AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Pangolin AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCTGCAAAGCAGATGGGCTGA [150]

Horse AAAAGCAAACAGCCTGGCTTAGCAAAGAGCCAACAGAGCAGACGGGCTGA [150]

Rhino AAAAGTGAACAGCCTGGTTTAGCCAAGAGCCAACAGAGCAGATGGGCTGA [150]

Llama AAAAGCAAACAGCCTGTCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Cow AAAAGCAAACAGCCTGTCTTAGTAAAGAGCCAGCAGAGCAGATGGGCTGA [150]

Pig AAAAGCAAGCAGCCTGTCTTAGCAAAGAGCCAACAGAGCAGATGGGCTGA [150]

Hippo AAAAGC?AACAGCCTCTCTTAGCAAAGAGCCAACAGAGCAGATGGGCTGA [150]

Sperm\_Whale AAAAGCAAACAGCCTGTCTTAGCAAAGAGCCAACAGAGCAGATGGGCTGA [150]

Humpback\_Whale AAAAGCAAACAGCCTGTCTCAGCAAAGAGCCAACAGAGCAGATGGGCTGA [150]

Cat GAAAGCAAACAGCCTGGCGTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Dog AACAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Dugong AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGCAGAGCAGATGGGCTGA [150]

Manatee AAAAGCAAACAGCCTGGCTTAACAAGGAGCCAGCAGAGCAGATGGGCTGA [150]

African\_Elephant AAAAGCAAACAGCCTGGCTTAGCAAGAAGCCAACAGAGCAGATGGGCTGA [150]

Asian\_Elepphant AAAAGCAAACAGCCTGGCTTAGCAAGAAGCCAACAGAGCAGATGGGCTGA [150]

Rock\_Hyrax AAGAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Tree\_Hyrax AAGAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Madagascar\_Hedgehog GAAAGCAAACAGCCCGGCTTAGCAAGGAGCCAACATAACAGATGGGCTGA [150]

Tenrec GAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAGCATAGCAGATGGGCTGA [150]

Golden\_Mole AAAAACAAACAGTCTGGCTTAGCGAGGAGCCAGCAGAGCAGATGGGCTGG [150]

Long\_Eared\_Elephant\_Shrew AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGGCTGA [150]

Giant\_Elephant\_Shrew AAAAGCAAACAGCCTGGCTTAGCAAGGAGCCAACAGAGCAGATGGACTGA [150]

Aardvark AAAAGCAAACAGCCTGGCTTAGTGAGGAGCCAACAGAGCAGATGGGCTGA [150]

Wombat AAAAACAAACAGCCTGCCTTAGGAAGGAACCAAGAGAGCAGTCTCGATGA [150]

[ 160 170 180 190 200]

[ . . . . .]

Nine\_Banded\_Armadillo AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCATAGAGAAAAAGG [200]

Hairy\_Armadillo AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAACACAGAGAAAAAGG [200]

Anteater AAGTAAGGAAACATGTAATGATAGGCACACTACCAGCACAGAGAAAAAAG [200]

Sloth AAGTAAGGAAACACGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [200]

Flying\_Squirrel AAGTAAGGAAACCTGTAATGATAGGCAAATTCCCAGCTCAGAGAAAAAGG [200]

Mouse AAGTAAAGGAACATGTAACGACAGGCAGGTTCCCAGCACTGGGGAAAAGG [200]

Rat CAGTAAAGAAACATGTAATGGCAGGCCGGTTCCCCGCACTGAGGGAAAGG [200]

Old\_World\_Porcupine GAGCAAGGAGAGGTGCCATGACAGGCAGGCTCCTGGCACAGAGCAGAAGG [200]

Jackrabbit AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [200]

Flying\_Fox AACTAAGGAAACATGTAACGATATGCAGACTTCCAGCACAGAGAAAAAGG [197]

Dog\_Faced\_Fruit\_Bat AACTAAGGAAACATGTAATGATAGGCAGACTTCCAGCA?AGAGAAAAAGG [200]

False\_Vampire\_Bat CAGTAAAGAAATATGTAATGATAGGCAGACTCCCAACACAGAGAAAAGGG [200]

Leaf\_Nosed\_Bat AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGGAAAATG [200]

Free\_Tailed\_Bat AAGTAAAGAAACATGTAATGATAGGCAGACTCTCAGCACAGAGAAAAGGG [200]

Little\_Brown\_Bat AAGTAAAGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAGGG [200]

Tomb\_Bat AAGTAAAGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAGGG [200]

Round\_Eared\_Bat AAGTAAAGAAACATGTGACGATAGGCAGGCTCCCAGCGCAGAGGAAAGGG [200]

Human AAGTAAGGAAACATGTAATGATAGGCGGACTCCCAGCACAGAAAAAAAGG [200]

Galago AAGTAAGGAAACATGCAATGATAGGCACACTTGCAGCCCTGAGCAAAAGG [200]

Chimpanzee AAGTAAGGAAACATGTAATGATAGGCGGACTCCCAGCACAGAAAAAAAGG [200]

Gorilla AAGTAAGGAAACATGTAATGATAGGCGGACTCCCAGCACAGAAAAAAAGG [200]

Orangutan AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAAAAAAAGG [200]

Howler\_Monkey AAGTGAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [200]

Rhesus AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [197]

Tree\_Shrew AAATAAGGAAACATGTAATGATAGGCAGATTCCCAGCACAGAAAAAAAGG [200]

Flying\_Lemur AAGTAAGGAAACATGTAATGATAGGCAGACGCCCAGCACAGAGAAAAAGA [200]

Mole AAGTAAAGAAACATGTAATGATAGGCAGACTTCCAGCCCAGAGAAAAGGG [200]

Hedgehog AAATATGGAAACATGTAATGATAGGCAGACTCCTAGCCCAGACAAAGAAG [200]

Pangolin ATGTAAAGAAACATGTAACGATAGGCAGGCTCTCAGCACAGGGAAAAAGG [200]

Horse AAGTAAGGAAACATGTAATGATAGGCAGGCCCCCAACTCAGAGGAAAAGC [200]

Rhino AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAACTCAGAGAAAAAGC [200]

Llama AAGTAAGGACACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [200]

Cow AAGTAAGGGCACATGTAAGGATAGGCAGATTCCCAGCACTGAGAAAAAGA [200]

Pig AAGTAAGGGCACATGTAATGATAGGCAGACTCCTAACACAGAGAAAAAGG [200]

Hippo AAGTAAGGACACATGTAATGATAGACAGACTCCCAGCACAGAGAAAAAGG [200]

Sperm\_Whale AAGTAAGGACACATGTAATGATAGGCAGACTCCCAGTACAGAGAAAAAGG [200]

Humpback\_Whale AAGTAAGGACACATGTAATGATAGGCAGACTCCCAGTACAGAGAAAAAGG [200]

Cat AAGTAAGGAAACATGTAATGATAGGCAGACTCCCAGCACAGAGAAAAAGG [200]

Dog AAGTAAGGAAACATGTAATGATAGGCAGATTCCCAGCACAGAGAAAAAGG [200]

Dugong AAGTAAGGAAACATGTAATGATAGGCAGACTCCTAGCACAGAGAAAAAGG [200]

Manatee AAGTAAGGAAACATGTAATGATAGGCAGACTCCTAGCACAGAGAAAAAGG [200]

African\_Elephant AAGTAAGGAAACATGTAATGATAGGCAGACTCCTAGCACAGAGAAAAAGG [200]

Asian\_Elepphant AAGTAAGGAAACATGTAATGATAGGCAGACTCCTAGCACAGAGAAAAAGG [200]

Rock\_Hyrax GAGTACGGAAACATGTAATGGTAGGCAGATTCTTAGAACAGAGAAAAAGG [200]

Tree\_Hyrax GAGTACGGAAACATGTAATGATAGGCAGATTCTTAGAACAGAGAAAAAGG [200]

Madagascar\_Hedgehog AAGTAAGGAGACATGTAATGACAAGCCGACTCCTAGCACAGAGAAAAAGG [200]

Tenrec AAGTAGGGGAACGGGTAATGACAAGCCGACTCGTAACACAGAGGAAGAGG [200]

Golden\_Mole AAGTAAGGCAGCGTGCAATGACAAGCAGACTCCTAGCACACAGACAGAGC [200]

Long\_Eared\_Elephant\_Shrew AAGTAAGGAAACATGTAATGATAGGCAGACTCCTAGCACAGAAAAAAAGG [200]

Giant\_Elephant\_Shrew AAATAAGGAAACATGTAATCATAGGCAGACTCCTAGTATAGAGAAAAAAT [200]

Aardvark AAGTAAGGAAACATGTAATGATAGGCAGACTCTTAGCACAGGGGAAAAGG [200]

Wombat AAGTAAGGAAATATGTAGCCCTGGGAAGACCCCAGGTGCCTGTGAGCGGC [200]

[ 210 220 230 240 250]

[ . . . . .]

Nine\_Banded\_Armadillo TAGATGTGGATGCTGATCCCCTGTATGGGCGAAAAGAACTGAATAAGCAG [250]

Hairy\_Armadillo TAGATGTGGCTGCTGATTCCCTGTATGGGCGAAAAGAACTGAATAAGCAG [250]

Anteater TAGATGTGGATGCTGATCCCCTGCATCGGAGAAAAGAACTGAAGAAGTGG [250]

Sloth TAGATGTGGATGCTGATCCCCTGTATGGGCGAAAAGAACTGAATAAGCAG [250]

Flying\_Squirrel TAGATTTGAATGCTGATCCCCAATATGAGAAAAAAGAACCAAGTAAGCAG [250]

Mouse TAGGTCCAAACGCTGACTCCCTTAGTGATAGAGAGAAGTGGACTCACCCG [250]

Rat CAGATCCAAATGTGGATTCCCTCTGTGGTAGAAAGCAGTGGAATCATCCG [250]

Old\_World\_Porcupine TAGAGCTGACTGCTGAGCCCCTCCACGAGAGAAAAAGACGGAAAAAGCAG [250]

Jackrabbit TAGTTCTGAATGTTGACTGCCTGTATGGGAGAAAACAACAGGATAAGCAG [250]

Flying\_Fox TAGTTCTGAATGCTGATCCCCTGAATGGGAGAATAGAACTGAATAAGCAG [247]

Dog\_Faced\_Fruit\_Bat TAGTTCTGAATGCTGATCCCCTGAATGGAAGAATAAAACTGAATAAGCAG [250]

False\_Vampire\_Bat TAGTTCTGAATGCTGATCCCTTGAATGAGAGAAAAGAACTGAATAATCAG [250]

Leaf\_Nosed\_Bat TAGTTCTGAATACTGATCCCCTGAATGGGAGAAAAGAACTGAATAAGCAG [250]

Free\_Tailed\_Bat TAGTTCTGAATGCTGATCCTCTGAATAGGAGAAAAGAA------------ [238]

Little\_Brown\_Bat TAATTCTGGATGCTGATCCTCTGAATGGGGAAAAAGAA------------ [238]

Tomb\_Bat TAGTTGTGAATGCTGATACCCTGGATGGGAGAAAAGAA------------ [238]

Round\_Eared\_Bat CAGTTCTGAATGCTGATCCCCAGAATGGGAGGGAAGAA------------ [238]

Human TAGATCTGAATGCTGATCCCCTGTGTGAGAGAAAAGAATGGAATAAGCAG [250]

Galago TAGATCTGAATACTGCTCCCCCATATGGGAGAAAAGAACAGAATAAGGAG [250]

Chimpanzee TAGATCTGAATGCTGATCCCCTGTGTGAGAGAAAAGAATGGAATAAGCAG [250]

Gorilla TAGATCTGAATGCTGATCCCCTGTGTGAGAGAAACGAATGGAATAAGCAG [250]

Orangutan TAGACCTGAATGCTGATCCCCTGTGTGAGAGAAAAGAATGGAATAAGCAG [250]

Howler\_Monkey TAGATGTGGATGCTGATCCCCTGCATGGGAGAAAAGAATGGAATAAGCAG [250]

Rhesus TAGATCTGAATGCTAATGCCCTGTATGAGAGAAAAGAATGGAATAAGCAA [247]

Tree\_Shrew TAGATCTAAATGCTGATCCCCTGTGTGGGAAGAAAAAACAAGCTAAGCAG [250]

Flying\_Lemur TAGATCTAAATGCTGATTCCCAGCATGGGAGAAAAGAACGGAATATGCAG [250]

Mole TAGACCCGAATGCTGATCCCATGTATGGGAGAAAAGAACTGAATAAGCAG [250]

Hedgehog TAGATCTGAATGCTGATTCCTTATATGAGAGAAAAGAACTAAACGAGCAG [250]

Pangolin TAGTTCTGAATGCTGATCCCCTGTGTGGGAGAAAAGAACTGAATAAGCAG [250]

Horse TAGTTCTGAATGCTGATCCGCTGTATGGGAGAGAAGAACTGAATAAGCAG [250]

Rhino TAGTTCTGAACGCTGATCCYCTGTATGGGAGAAAAGAACTGAATAAGCAG [250]

Llama TGGCTCTGAATGCCGATCGCTTATATGGGAGCGAAGAACTGAATAAGCAG [250]

Cow TAGTTCTGAATACTGATCCCCTGTACAGAAGAAAAGAACTGCGTAAGCAG [250]

Pig TAGTTCTGAATACTGATCTCCTGTATGGGAGAAACGAACTGAATAAGCAG [250]

Hippo TAGTTCTGAACGCTGATCCCCTATACGGGAGAAAAGAACTGAATAAGCAG [250]

Sperm\_Whale TAGTTCTGAATGCTGATCCCCTATATGGGAGAAAAGAACTGAATAAGCAG [250]

Humpback\_Whale TAGTTCTGAATGCTGATCCCCTGTATGGGAGAAAAGAACTGAATAAGCAG [250]

Cat TAGTTCTGAATGCTGATCCCCTGTGTAGGAGAAAA---CTGAGTAAGCAG [247]

Dog TAGTTGTGAATGCTGATCTCCTGTGTGGGAGAAAAGAACTGAATAAACAG [250]

Dugong TAGATATGAATGCTAATCCATTGTATGAGAGAAAAGAAGTGAATAAGCAG [250]

Manatee TAGATATGAATGCTAATCCATTGTATGAGAGAAAAGAAGTGAATAAGCAG [250]

African\_Elephant TAGATGTGAATGCTGATCCCTTGTATGAGAGAAAAGAAGTGAATAAGCAG [250]

Asian\_Elepphant TAGATGTGAATGCTAATCCCTTGTATGAGAGAAAAGAAGTGAATAAGCAG [250]

Rock\_Hyrax TAGAAACGAATGCTGATCCTTTGTATGGGAAAAAAGAAGGGAATAAGCAG [250]

Tree\_Hyrax TAGATACAAATGCTGATCCTTTGTATGGTAAAAAAGAAGGGAATAAGCAG [250]

Madagascar\_Hedgehog TAGATAAGAATGCTGACCCCGTGCATGGGAGAAAAGGAGTGCCTAAGCAG [250]

Tenrec TAGTTGTGAGCGCTGACTCCGCGCATGGGAGGAAAGGAGTGTCTAAGCAG [250]

Golden\_Mole TATATAGGAGTGCTGGTCCCATGCACAGGAGAAAAGAAGTAAATAAGCTG [250]

Long\_Eared\_Elephant\_Shrew TAGCTGTGAGTGCTGATCTTTATTATGGGATAAAAGAAGTGAATAAGCAG [250]

Giant\_Elephant\_Shrew TAGATATGAATGCTGATCCCTCTTATGGGCGAAAAGAAGTGAATAAGCAG [250]

Aardvark TAGATATGAAGGCTGATCCCTTGTATGGGAGAAAAGAAGTGAATAAGCAG [250]

Wombat ATGAGCTGAATGACCATCATCTGTGTGAGAGGCAAGGCCTAGAGGA---G [247]

[ 260 270 280 290 300]

[ . . . . .]

Nine\_Banded\_Armadillo AAACCTCCATGCTCTGAGAGTCATAGAGAT---ACCCAAGATATTCCTTG [297]

Hairy\_Armadillo AAACTTCCATGCTCTGAGAGTCCTAGAGAT---ACCCAAGATATTCCTTG [297]

Anteater AAATCTCCATACTCTGAGAATCCTAGAGGT---ACCCAAGATATTCCTTG [297]

Sloth AAACCTCCATGCTCTGAGAGTCCTCAAAAT---ACCCAAGATATTCCTTG [297]

Flying\_Squirrel AAACATCCATGCTCTGAGAATTCCAGAGAT---ACCCAAGATGTTCCTTG [297]

Mouse CAAAGTCTGTGCCCTGAGAATTCTGGAGCT---ACCACCGATGTTCCTTG [297]

Rat AAAAGCCTGTGCCCTGAGAATTCTGGAGCT---ACCACTGACGTTCCTTG [297]

Old\_World\_Porcupine AACCCTCCGAGCTCCGAGGCTCATGGAGGG---ACCCAGGATGTTCCTTG [297]

Jackrabbit AAACCTCCATGCCCTGAGACCTCTGGAGAT---AACCAAGATGTTTCTTG [297]

Flying\_Fox AAACCTCCATGCTCTGACAGTCCTAGAGAT---TCTCAAGATATTTCTTG [294]

Dog\_Faced\_Fruit\_Bat AAACCTCCATGCTCTGACAGTCCTAGAGAT---TCCAAAGATATTCCTTG [297]

False\_Vampire\_Bat AAACCTCTATGCTCTGACAGTCCTAGAGAT---TCCCAAGACGTTCCTTG [297]

Leaf\_Nosed\_Bat AAACCTCCATGCTCTGACAGTCCTAGGGAT---TCCCAAGTTGTTGCATG [297]

Free\_Tailed\_Bat ---CCTCCAGGCTCTAACTATCCTAGAGAT---TCCCAAGATGTTCCTTG [282]

Little\_Brown\_Bat ---CTTCCACGCTCTGACCATCCCAGAGAT---TCCCAAGATGTGCCTTG [282]

Tomb\_Bat ---CCTCCATACTCTGACTGTCCTAATGAT---TCCCAAGATGTCCCTTG [282]

Round\_Eared\_Bat ---TCTCCATCCTCTGACCACCCTAGAGAT---TCCCAAGATGTTCCTTG [282]

Human AAACTGCCATGCTCAGAGAATCCTAGAGAT---ACTGAAGATGTTCCTTG [297]

Galago AAACTTCTATGCTCCAAGAATCCTAGAGAT---AGCCAAGATGTTCCTTG [297]

Chimpanzee AAACTGCCATGCTCAGAGAATCCTAGAGAT---ACTGAAGATGTTCCTTG [297]

Gorilla AAACTGCCATGCTCAGAGAATCCTAGAGAT---ACTGAAGATGTTCCTTG [297]

Orangutan AAACTGCCATGCTCAGAGAATCCTAGAGAT---ACTGAAGATGTTCCTTG [297]

Howler\_Monkey AAACCTCCGTGCTCTGAGAATCCTAGAGATGATACTGAAGATGTTGCTTG [300]

Rhesus AAACTGCCATGCTCTGAGAATCCTAGAGAC---ACTGAAGATGTTCCTTG [294]

Tree\_Shrew AAACYGCTATGTTCTAACAGTCCTAGAGAT---GACCAAGATTCTCCTTG [297]

Flying\_Lemur AAACCTCCATACCCTGAGAGTCCTAGAGAT---ACCCAAGATGTTCCTTG [297]

Mole AAACCTCCATGCTCTGACAGCCCCAGAAAT---TCCCAAGGTGTTGCCTG [297]

Hedgehog ATCTCTTCATACTCCAGCAGTCCTAAAGAT---TCCAAAGACATTTCTTG [297]

Pangolin AAACCTTCATGCTCTGACAGTCCTAGAGTT---TCTCAAGACGTTCCTTG [297]

Horse AAACCTCCACGCTCTGACAGTCCTAGAGAC---TCCCAAGATGTTCCTTG [297]

Rhino AAACCTCCATGTTCTGACAGTCCTAGAGAT---TCCCAAGATATTCCTTG [297]

Llama AAACCTGCATGCTCTGACAGTCCTAGAGAT---TCCCAAGATGTTCCTTG [297]

Cow AAACCTGCATGCCCTGACAGTCCTGGAGAT---TCCCAAGATGTTCCTTG [297]

Pig AAACCTGCGTGCTCTGACAGTCCTAGAGAT---TCCCAAGATGTTCCTTG [297]

Hippo AAACGTGCATGCTCTGACGGCCCTAGCGAT---TCCCAAGATGTTCCTTG [297]

Sperm\_Whale AAATCTGCATGCTCTGACAGTCCTAGAGAT---TCCCAAGAGTTTCCTTG [297]

Humpback\_Whale AAACCTGCATGCTCTGACAGTCCTAGAGAT---TCCCAAGAGTTTCCTTG [297]

Cat AAATCTCCATGCTCTGACAGTCCTAGAGAT---TCCCAAGATGTACCTTG [294]

Dog AAACCTCCACACTCTGATAGTCCTAGAGAT---TCCCAAGATGTTCCTTG [297]

Dugong AAACCTCCATGCTCCGAGAGTGTTAGAGAT---ACACAGGATATTCCTTG [297]

Manatee AAACCTCCATGCTCCGAGAGTGTTAGAGAT---ACACAAGATATTCCTTG [297]

African\_Elephant AAACCTCCACGCTCTGAGAATCTTAGAGAC---ACCCAAGATATTCCTTG [297]

Asian\_Elepphant AAACCTCCACGCTCTGAGAATCTTAGAGAC---ACCCAAGATATTCCTTG [297]

Rock\_Hyrax AAACCTCCATGCTCTGAGAGTCGCACAGAT---ACGCAAGATATTCCTTG [297]

Tree\_Hyrax AAACCTCCATGCTCTGAGAGTCGCACAGAT---ACGCAAGATATTCCTTG [297]

Madagascar\_Hedgehog AAACCTCCGTGCCATGGAAGTCCTAGAAAG---AGCCACGATGTGCCTTG [297]

Tenrec AAACCTCCGCGCCAGAAAAGGCCCAGAAAG---AGCCATGATGTGCCTTG [297]

Golden\_Mole AAATCTCCATGGTCTGAGAGTCCTGGAGCT---ACCCAAGAGATTCCTTG [297]

Long\_Eared\_Elephant\_Shrew AAATCTCCGCACTCTGAGAGTCCAAACAAT---AACCAGAATACTCCTTG [297]

Giant\_Elephant\_Shrew AAATATGAATGCTCTGAAAGCCCTCAAGAT---ACCCAAGATATTCCTTG [297]

Aardvark AAACCTCCATGCTCTGAGAATCCTAGAGAT---ACTGAAGATATTCCTTG [297]

Wombat AAGCCGCAGCACCCTGAGAGCCCTAGAGGTAATCCTCAGAACTGCCTGTC [297]

[ 310 320 330 340 350]

[ . . . . .]

Nine\_Banded\_Armadillo GATAAT---GCTGAATAGTAGCATTCAGAAAGTTAACGAGTGGTTTTCCA [344]

Hairy\_Armadillo GATAAC---GCTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Anteater GATAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Sloth GATAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Flying\_Squirrel GATAAC---ACTAAATAGCAGCATTCGGAAAGTTAACGAGTGGTTTTCCA [344]

Mouse GATAAC---ACTAAATAGCAGCGTTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Rat GATAAC---ACTGAATAGCAGCATTCAGAAAGTGAATGAGTGGTTTTCCA [344]

Old\_World\_Porcupine GATCAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Jackrabbit GATAAC---AGTAAATAGCAGCATTCGGAAAGTTAACGAGTGGTTCTCCA [344]

Flying\_Fox GATAAC---ACGGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [341]

Dog\_Faced\_Fruit\_Bat GATAAC---ACGGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [344]

False\_Vampire\_Bat GATAAC---ACGTAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [344]

Leaf\_Nosed\_Bat GATAAC---ACAGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [344]

Free\_Tailed\_Bat GATAAC---ACGGAGTAGTAGCATACAGAAAGTTAATGAGTGGTTCTCCA [329]

Little\_Brown\_Bat GATAAC---ACGGAGCAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [329]

Tomb\_Bat GATAAC---AGGGAATAGTAGCATACAGAAAGTTAGTGAGTGGTTTTCCA [329]

Round\_Eared\_Bat GATAAC---ACGGAATAGCAGCATACAGAAAGTTAATGAGTGGTTTTCCA [329]

Human GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Galago GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAATGGTTTTCTA [344]

Chimpanzee GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Gorilla GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Orangutan GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Howler\_Monkey GATAAT---GCTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [347]

Rhesus GATAAC---ACTAAATAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [341]

Tree\_Shrew GATAAC---TCTAAATAGTAGCATTCAGAAAGTTAATGAATGGTTTTCCA [344]

Flying\_Lemur GATAAC---ACTAAACAGCAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Mole GATAAC---ACTGAACAGTAGCATTCGAAAAGTTAATGAGTGGTTTTCCA [344]

Hedgehog GGTAGC---ACTGAAT---AGCATACAGAAAGTGAATGAATGGCTTTCCA [341]

Pangolin GATAAC---ACTAAATAGTAGCATACRGAAAGTTAATGAGTGGTTTTCCA [344]

Horse GATAAC---ACTGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [344]

Rhino GATAAC---ACGGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [344]

Llama GATAAC---ACTGAATAGTAGCATACAGAAAGTGAATGAGTGGTTTTCCA [344]

Cow GGTAAC---CCTGAATAATAGCATACAGAAAGTTAATGACTGGTTTTCCA [344]

Pig GATAAC---ATTGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCTA [344]

Hippo GATAAC---ACTGAATAGTAGCATACAGAAAGTTAATGAATGGTTTTCCA [344]

Sperm\_Whale GATAGC---AGTGAATAGTAGCATACAGAAAGTTAATGAATGGTTTTCCA [344]

Humpback\_Whale GATAAC---AGTGAATAGTCGCATACAGAAAGTTAATGAATGGTTTTCCA [344]

Cat GATAAC---ACTGAATAGTAGCATACAGAAAGTTAATGAGTGGTTTTCCA [341]

Dog GATAAC---ACTGAATAGTAGCATACGGAAAGTTAATGAGTGGTTTTCCA [344]

Dugong GCTAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTTCA [344]

Manatee GCTGAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTTCA [344]

African\_Elephant GATAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTTCA [344]

Asian\_Elepphant GATAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTTCA [344]

Rock\_Hyrax GGTAAC---ACTGAATAACAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Tree\_Hyrax GGTAAC---ACTGAATAACAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Madagascar\_Hedgehog GAAAAC---ACGGAAGAGTAGCATTTGGAAAGTCAATGAGTGGTTTTCCA [344]

Tenrec GAAAAC---ACGGAAGAGCAGCATTTCGAAGGTTAACGAGTGGTTTTCCA [344]

Golden\_Mole GATAAC---ACTGAATAGTAGCATTCGGAAAGTTAATGAGTGGTTTTCCA [344]

Long\_Eared\_Elephant\_Shrew GATGAC---ATTGAACAGTAGCATTCGGAAAGTTAATGACTGGTTTTCCA [344]

Giant\_Elephant\_Shrew GATGAC---ACTGAATAGTAGCGTTCAGAAAGTTAATGCATGGTTTTCCA [344]

Aardvark GATAAC---ACTGAATAGTAGCATTCAGAAAGTTAATGAGTGGTTTTCCA [344]

Wombat TGGAACCAAACTGAAAAGCAGCATTCAGAAAGTTAATGAGTGGTTATCCA [347]

[ 360 370 380 390 400]

[ . . . . .]

Nine\_Banded\_Armadillo GAGGTGATGACATATTAACTTCTGATGACTCACACGATAGGGGGTCTGAA [394]

Hairy\_Armadillo GAAGTGATGACCTATTAACTTCTGATGACTCACACGATGGGGGGTCTGAA [394]

Anteater GAAGTGATGACATATTGACTTCTAATGACTCATGCAATGAGGGGTCTGAA [394]

Sloth GAAGTGATGACATACTAACTTCTGATGACTCACACAATGGGGGGTCTGAA [394]

Flying\_Squirrel GAAGTGACGAAATGTTAACTTCTGATGACTCAGATGATGGGGGTTCTGAA [394]

Mouse GAACTGGTGAAATGTTAACTTCTGACAGCGCATCTGCCAGGAGGCACGAG [394]

Rat GAACTGGTGAAATGTTAACTTCTGACAATGCATCTGACAGGAGGCCTGCG [394]

Old\_World\_Porcupine GAAGTGACAAAGCAGTGACTTCTGACAGCACCTGTGACAGGGAGTCCAAG [394]

Jackrabbit GAAGTAATGAAATGTTAACTCCTGATGACTCACTTGACCGGCGGTCTGAA [394]

Flying\_Fox GACGTGATGAAATATTAACTTCTGATGTCTCACCTGATGGGAGGTCTGAA [391]

Dog\_Faced\_Fruit\_Bat GACGTGATGAAACATTAACTTCTGATGTCTTACTTGATGAGAGGTCTGAA [394]

False\_Vampire\_Bat GACGTGATGAAATACTAACTTCTCATGGTTCACATGATGGGACAGGTGGA [394]

Leaf\_Nosed\_Bat GACGTGATGAAATATTAACTTCTCATAGCTCATGTTATGGGAGAGCTGAA [394]

Free\_Tailed\_Bat GACGTGATGAAATACTAACTACTGGTGGCTCACATAACGGTAGATTTGAA [379]

Little\_Brown\_Bat GGCGTGATGAAATACTAACTTCTGATGGCTCACATAATGGCAAGTCTGAG [379]

Tomb\_Bat GGCGTGATGAAATATTAACTTCTGATGGATCACATGATGGGAGATCTGAA [379]

Round\_Eared\_Bat GACGTGATGAAACACGGACTTCCAACGGCTCCCACGGTGGGAGGCCTGAG [379]

Human GAAGTGATGAACTGTTAGGTTCTGATGACTCACATGATGGGGAGTCTGAA [394]

Galago GAAGTGATGAAATGTTAACTTCTGATGACTCACATGATGAGGGTTCTGAA [394]

Chimpanzee GAAGTGATGAACTGTTAGGTTCTGATGACTCACATGATGGGGGGTCTGAA [394]

Gorilla GAAGTGATGAACTGTTAGGTTCTGATGACTCACATGATGGGGGGTCTGAA [394]

Orangutan GAAGTGACGAACTGTTAGGTTCTGATGACTCACATGATGGGAGGTCTGAA [394]

Howler\_Monkey GAAGTGATGAACTGTTAACTTCTGATGACTCACATGATGGGGGGTCTGAA [397]

Rhesus GAAGTGATGAACTGTTAAGTTCTGATGACTCACATGATGGGGGGTCTGAA [391]

Tree\_Shrew GAAGTGATGAAATGTTAACTTCTAACGACTCACATGATGGTGAGTCTGAA [394]

Flying\_Lemur GAAGTGATGAAATTTTAGCTTCTGATGACTCACGTGACAGGGTGTCTGAA [394]

Mole GAAGTGATGAAATATTAACTTCTGATGAATCTCGTGATGGGGAGTCCCCA [394]

Hedgehog GAAGTGATGAACTGTTAACTTCTGATGACTCATATGATAAGGGATCTAAA [391]

Pangolin GAAGTGATGAAATGTTAACTTCTGATGATCCATGTGATGGGAGGTCTGAA [394]

Horse GAAGTGAGGAAATGTTAACTTCTGATGACTCATGTGACGGAGGGCCTGAA [394]

Rhino GAAGTGATGAAATATTAACTTCTGATGACTCACATGATGGGGGGCCTGAA [394]

Llama GAAGCGACGAAATGTTACCTTCTGATGACTCACATGAAGTGGGGCCTGAA [394]

Cow GAAGTGATGAAATATTAACTTCTGATGACTCGTGCGATGGGGGGTYTGAA [394]

Pig GAAGCGATGAAATGTTAACTTCTGACGACTCACAGGACAGGAGGTCTGAA [394]

Hippo GGAGTGGCGAGATGTTAACTTCTGACGACTTATGTGTTAAGGGGTGTGAA [394]

Sperm\_Whale GAAGTGATGAAATGTTAACTTCTAACGACTTACGTGATGGGGGATTTGAA [394]

Humpback\_Whale GAAGTGATGAAATGTTAACTTCTAACGACTCACGTGATGGGGGATTTGAA [394]

Cat GAAGTGATGAAATGTTAACTTCTGATGACTCACATGATGAGGGATCTGAA [391]

Dog GAAGTGACGAAATATTAACTTCTGATGATTCACATGACAGAGGATCTGAA [394]

Dugong GAAGTGATGGCCTG---------GATGACTTGCATGATAAGGGGTCTGAG [385]

Manatee GAAGTGATGGCCTG---------GATGACTTGCATGATAAGGGGTCTGAA [385]

African\_Elephant GAAGTGACGGCCTG---------GATGTCTTAAATGATGAGGGGCCTGAA [385]

Asian\_Elepphant GAAGTGACGGCCTG---------GATGTCTTAAATGATGAGGGGCCTGAA [385]

Rock\_Hyrax GAAGTGACAACCTA---------AGTGATTCACCTAGTGAGGGGTCTGAA [385]

Tree\_Hyrax GAAGTGACAACCTA---------AGTGATTCACCTAGTGAGGGGTCTGAA [385]

Madagascar\_Hedgehog AAAGCGATGGCCTG---------GGTGACTCGCATGATGAGCGGCCTGAA [385]

Tenrec AAAGCCACGGCCTG---------GGTGACTCTCGCGATGGGCGGCCTGAG [385]

Golden\_Mole GAAGTGATGGCCTG---------GATGAGTCACATGATGAGGGGTCTGAA [385]

Long\_Eared\_Elephant\_Shrew GAAGCGGTGGCCTG---------GATGGCTGCCATGAT---AGATCTGAA [382]

Giant\_Elephant\_Shrew GAAGTGATGGCCTC---------GATGATGCCCCTGATGTAGGGTCTGAA [385]

Aardvark GAAGTGATGGCCTG---------GATGGCTCACATGATGAAGGGTCTGAA [385]

Wombat GAAGTAGTGACATTTTAGCCTCTGATAACTCCAACGGTAGGAGCCATGAG [397]

[ 410 420 430 440 450]

[ . . . . .]

Nine\_Banded\_Armadillo TTAAATGCAGAAGTAGCTGGTGCATTGAAAGTT------TCAAAAGAAGT [438]

Hairy\_Armadillo TCAAAAGCAGAAGTAGCTGGTGCATTAAAAGTT------CCAAATGAAGT [438]

Anteater TTAAATGCAGAAGTAGCTGATGCATCAAAAGTT------CCAAATGACGT [438]

Sloth TCAAATGCAGAAGTAGTTGGTGCATTGAAAGTT------CCAAATGAAGT [438]

Flying\_Squirrel TCAAATGCTGAAATAGCTGGTATATTAGAAATT------CCAAATGAAGT [438]

Mouse TCAAATGCTGAAGCAGCTGTTGTGTTGGAAGTT------TCAAACGAAGT [438]

Rat TCAAATGCAGAAGCTGCTGTTGTGTTAGAAGTT------TCAAATGAAGT [438]

Old\_World\_Porcupine TCAGATGCTGAAGAAGCTGGTGTGGCAGAAGAT------CCAAAAGGCCT [438]

Jackrabbit TCAAATGCCAAAGTGGCTGGTGCATTAGAAGTC------CCAAAGGAGGT [438]

Flying\_Fox TCAAATGTG---------------GTAGAAGTT------CCAAATGAAGT [420]

Dog\_Faced\_Fruit\_Bat TCAAATGTG---------------GTAGAAGTT------CCAAATGAAGT [423]

False\_Vampire\_Bat TCAAATACAGAAGAAGCTGGTGCAGCAGAAATT------CTAAATGAAGT [438]

Leaf\_Nosed\_Bat TCAAATACAGAAGTATCTGGTGCAGTAGAAGTT------CCACTTGAAGT [438]

Free\_Tailed\_Bat TCAAATGTTGAAGTAGCTGGTGCAGTAGAAGTT------CCAAATGAAGT [423]

Little\_Brown\_Bat TCAAATGCTGAAGTAGCTGGTGCAGTGGAAGTT------GCAAATGAAGT [423]

Tomb\_Bat TCAAATATGGAAGTAGCTGGTGCAGTAGAAGTT------CCATATGAAGT [423]

Round\_Eared\_Bat TCAGACACGGAAGGAGCCGACACGGTAGAAGCT------CCGGACGAAGT [423]

Human TCAAATGCCAAAGTAGCTGATGTATTGGACGTT------CTAAATGAGGT [438]

Galago TCACATGCTGAAGTAGCTGGAGCCTTAGAAGTT------CCAAGTGAAGT [438]

Chimpanzee TCAAATGCCAAAGTAGCTGATGTATTGGACGTT------CTAAATGAGGT [438]

Gorilla TCAAATGCCAAAGTAGCTGATGTATTGGACGTT------CTAAATGAGGT [438]

Orangutan TCAAATGCCAAAGTAGCGGATGTATTGGACGTT------CTAAATGAGGT [438]

Howler\_Monkey TCAAATGCCAAAGTAGCTGAAGCATTGGAAGTT------CTAAATGAGGT [441]

Rhesus TCAAATGCCAAAGTAGCTGATGTATTGGACGTT------CTAAATGAGGT [435]

Tree\_Shrew ATAGCTGGT------------GCATTYGAAGYT------CCAAATAAAGT [426]

Flying\_Lemur TCAAATGCCAAAGTAGCTGGTGCATTAGAAGTT------CCAAATGATGT [438]

Mole TCAAATATTGAAATGACTGGTGAAGTAGAAGTT------CCAAACACAGT [438]

Hedgehog TCAAAAACTGAAGTAACTGTAACAACAGAAGTT------CCAAATGCAAT [435]

Pangolin TCAAATACTGAAGTAGCTGGTGCAGTAGAAGTT------CCAAATGAAGT [438]

Horse TCAAATACAGAAGTAGCTGGTGCAGTAGAAGTT------CCAAATGAAGT [438]

Rhino TCAAATACTGAAGTAGCTGGTGCAGTAGAAGTT------CAAAATGAAGT [438]

Llama TCAAATACTGAAGTAGCTGGTGCAGTGGAAGTT------CCAAATGAAGT [438]

Cow TCAAATAATGAAGTAGCTGGTGCAGTGGAAATT------CCAAATAAAGT [438]

Pig TCAAATACTGGGGTAGCTGGTGCAGCAGAGGTT------CCAAATGAAGC [438]

Hippo TCAAATACTGAAGTAGCTGGTGCAGCGGAAGTT------CCAAATGAAAT [438]

Sperm\_Whale TCAAACCCTGAAGTAGCTCGTGCAGTGGAAGTT------CCACAGGAAGT [438]

Humpback\_Whale TCAAACACTGAAGTAGCTTGTGCAGTGGAAGTT------CCAAAGGAAGT [438]

Cat TCGAATCCTGGAGTAGCTGGTGCA---GAAGTT------CCAAATGTAGT [432]

Dog TTGAATACTGAAGTAGGTGGTGCAGTAGAAGTT------CCAAATGAAGT [438]

Dugong TCAAATGCAGAAGTAGCTGGTGCTTTAGAAGTT------CCAGAAGAAGT [429]

Manatee TCAAATGCAGAAGTAGCTGGTGCATTAGAAGTT------CCAGAAGAAGT [429]

African\_Elephant TCCAGTGCAGAAGTAGCTGGTGCATTAGAAGTT------CCAAATGAAGT [429]

Asian\_Elepphant TCCAGTGCAGAAGTAGCTGGTGCATTAGAAGTT------CCAAATGAAGT [429]

Rock\_Hyrax TTAAATGGAAAAGTGGCTGGTCCAGTAAAACTT------CCAGGTGAAGT [429]

Tree\_Hyrax TTAAATGGAAAAGTGGCTGGTCCAGTAAAGCTT------CCAGGTGAAGT [429]

Madagascar\_Hedgehog TCAGATGCAGACGTCGCTGGGGCCTTCGAAGTT------CCAGATGAAGC [429]

Tenrec TCAGGCGCAGACGTAGCTGTAGCCTTCGAAGTT------CCAGACGAAGC [429]

Golden\_Mole TCAAATGCAGAGGTTGCTTGTAAATTCGAATTT------CCCAAGGAAGT [429]

Long\_Eared\_Elephant\_Shrew TCGAATGTAGTAATAGCTGGTGAAGTGGAAGTT------CCAAATGAAGT [426]

Giant\_Elephant\_Shrew TCAAATACAGCAATAACTGGTGCACTGGAAGTT------TCAAAGGAAGT [429]

Aardvark TCAAATGCAGAAATAGGTGGTGCATTAGAAGTT------TCAAATGAAGT [429]

Wombat CAGAGCGCAGAGGTGCCTAGTGCCTTAGAAGATGGGCATCCAGATACCGC [447]

[ 460 470 480 490 500]

[ . . . . .]

Nine\_Banded\_Armadillo AGATGAATATTCTAGTTTTTCAGAGAAGATAGACTTAATGGCCATTAATC [488]

Hairy\_Armadillo AAATGGATATTCTAGTTCTTCAGAGAAGATAGACTTATTGGCCAGTGATC [488]

Anteater AGATAGATATTCTGGTTCTTCAGAGAAAATAGACTTAATAGCCAGTGACC [488]

Sloth AGATGGATATTCTGGTTCTTCAGAGAAGATAGACTTAATAGCCAGTGATC [488]

Flying\_Squirrel AGATGGATTTTCTGGTTCTTCGGAGAAAATAGACTTGTTGGCCACTGATC [488]

Mouse GGATGGGGGTTTTAGTTCTTCAAGGAAAACAGACTTAGTAACCCCCGACC [488]

Rat GGATGGATGTTTCAGTTCTTCAAAGAAAATAGACTTAGTTGCCCCTGATC [488]

Old\_World\_Porcupine AGATGGCTCT---------TCAGAGAAAGTAGGCTTGCTGACCAGCAGTC [479]

Jackrabbit AGATGGATATTCTGGTTCTACAGAGAAAATAGACTTACTGGCCAGTGATT [488]

Flying\_Fox AGATGGATACTCTGGTGCTTCAGAGAAAATAGCTTTAAAGGCCAATGATC [470]

Dog\_Faced\_Fruit\_Bat AGATGGATACTCTGGTGCTTCAGAGGAAATAGCCTTAAAGGCCAGTGATC [473]

False\_Vampire\_Bat AGATGGATATTCTGGTTCTTCAGAGAAAATAGCTTTAATGGCCAGTGATC [488]

Leaf\_Nosed\_Bat AGATGGATTTTCTGGCTCTACAGAGAAAATAACCTTAATGACCAGTGATC [488]

Free\_Tailed\_Bat AGATGGATATTCTGGTTCTCCAGAGAAAATAGCCTTAATGGCCTGTGATC [473]

Little\_Brown\_Bat AGATGGGTATTCTGGTTCTCCAGGGAAAATAACCTTAATGGCCCATGATC [473]

Tomb\_Bat AGATGGATATTCTGATTCTCCAGAGAAAATAGGCTTAATGGCCAGTGATC [473]

Round\_Eared\_Bat GCGTGGATGCCCTGGCTCTCCAGAGAACACAGCCTCGCCGGCCGGCGAGC [473]

Human AGATGAATATTCTGGTTCTTCAGAGAAAATAGACTTACTGGCCAGTGATC [488]

Galago AGATGGATATTCCAGTTCCTCAGAGAAAATAGACTTACTGGCCAGTGATC [488]

Chimpanzee AGATGAATATTCTGGTTCTTCAGAGAAAATAGACTTACTGGCCAGCGATC [488]

Gorilla AGATGAATATTCTGGTTCTTCAGAGAAAATAGACTTACTGGCCAGTGATC [488]

Orangutan AGATGAATATTCTGGTTCTTCAGAGAAAATAGACTTACTGGCCAGTGATC [488]

Howler\_Monkey AGATGGATATTCTAGTTCTTCAGAGAAAATAGACTTACTGGCCAGTGATC [491]

Rhesus AGATGAATATTCTGGTTCTTCAGAGAAAATAGACTTACTGGCCAGTGATC [485]

Tree\_Shrew AGATGAATATTCTGGTTCTTCAGAAAAAATAGACTTAATGGCCAACAATC [476]

Flying\_Lemur AGATGGATATTCTGATTCTTCAGAGAAAGTTGATTTAATGGCCAGTGATC [488]

Mole AGATGGATTTTCTGGTTCTTCAGAGAAAATAGACTTAATGGCCAGCGATC [488]

Hedgehog AGATAGRTTTTTTGGTTCTTCAGAGAAAATAAACTTAACAGCCAGTGATC [485]

Pangolin AGATGAAAATTGTGGTTCTTCAGAGAAAAAAGACTTAATGGCCAGTGATC [488]

Horse ACGTGGATATTCTGGTTCTTCAGAGAAAATAGACTTAATGGCCGGTGATC [488]

Rhino AGATGGATATTCTGGTTCTTCAGAGAAAATAGGCTTAATGGCCAGTGATC [488]

Llama AGATGGCTATTCAGGCTCTTCAGAGAAAATAGACTTAATGGCCAGTGATC [488]

Cow AGATGGATATTCAGGTTCTTCAGAGAAAATCAACTTAATGGCCAGTGATC [488]

Pig AGATGGACATTTGGGTTCTTCAGAGAAAATAGACTTAATGGCCAGTGACC [488]

Hippo TGATGGGTGTTTGGGTTCTTCAGAGAAAATAGATTTAATGGCCCGTGACC [488]

Sperm\_Whale TGATGGATATTTGGGTTCTTCAGAGAAAATAGACTTAATGGCCAGTGATC [488]

Humpback\_Whale TGATGGATATTTGGGTTCTTCAGAGAAAATAGACTTAATGGCCAGTGATC [488]

Cat GGATGGATATTCTGGTTCTTCTGAGAAAATAGACTTAATGGCCAGTGATC [482]

Dog GGGTGAATATTCTGGTTCTTCTGAGAAAATAGACTTAATGGCCAGTGATC [488]

Dugong ACATGGATATTCTAGTTCTTCAGAGAAAATAGACTTAATGGCTAGTGATC [479]

Manatee ACATGGATATTCTAGTTCTTCAGAGAAAATAGACTTAATGGCCAGTGATC [479]

African\_Elephant ACAT------TCTAATTCTTCAGAGAAAATAGACCTAATGGCCAGTGATC [473]

Asian\_Elepphant ACAT------TCTAATTCTTCAGAGAAAATAGACCTAATGGCCAGTGATC [473]

Rock\_Hyrax ACATAGATATTCTAGTTTTCCAGAGAACATAGATTTAATGGCCAGTGGTC [479]

Tree\_Hyrax ACATAGATATTCTAGTTTTCCAGAGAACATAGATTTAATGGCCAGTGGTC [479]

Madagascar\_Hedgehog ACGCGAATCTTCTAGTTCACCAGAGAAAACAGACTTGATGGTCAGTGATC [479]

Tenrec ATGTGAATCTTATAGTTCTCCAGAGAAAACAGACCTGATGGCCAGGGACC [479]

Golden\_Mole ACAAGGATATTCTAGTTCTTCAGAGAAAATGGACTTAATGGCCAATGATC [479]

Long\_Eared\_Elephant\_Shrew ACACGGATATTCTATTTATTCAGAGAAATTAGACTTAATGCCCAACAATC [476]

Giant\_Elephant\_Shrew ACATGGATATTCTAGTTCTTCAGAGAAAGTACACACAATGACTGGTGATC [479]

Aardvark ACATAGTTACTCTGGTTCTTCAGAGAAAATAGACTTAATGGCCAGTGAAC [479]

Wombat AGAGGGAAATTCTAGCGTTTCTGAGAAGACTGACCCAGTGGCTGACAGCA [497]

[ 510 520 530 540 550]

[ . . . . .]

Nine\_Banded\_Armadillo CTCATGATACTTTACAATTTGCAAGTGAAAGAGTCCAATTGAAACCAGCA [538]

Hairy\_Armadillo CTCATAATGCTTTAATATTTGCAAGTGAAAGAGTCCAATCCAAACCAGCA [538]

Anteater CTCATAATGCTTTAATATGTGCAAGTGAAAAAGTCCAGTCCAAACCAACA [538]

Sloth CTCACAATGCTTTAATATTTGCAGGTGAAAGAGTCCAGTCCAAACCAACA [538]

Flying\_Squirrel CGCATAATGCTTTAATTTCTAAATGTAAAAGAGTCTGCTCCAAAGCAGTC [538]

Mouse CCCATCATACTTTAATGTGTAAAAGTGGAAGAGACTTCTCCAAACCAGTA [538]

Rat CCGATAATGCTGTAATGTGTACAAGTGGAAGAGACTTCTCCAAGCCAGTA [538]

Old\_World\_Porcupine CTCAAAAAGCTATAATCTGTGCCAGGGAGAGGGTCTGCTCCAAAGCACTG [529]

Jackrabbit CCCATAATGCTTTAATATGTGAAAGCAAAAGAGTCCATTCCAAACCAGTA [538]

Flying\_Fox CTCATGGTGCTTTAATGTGCGAA------AGAGTTCACTCCAAACTGGTA [514]

Dog\_Faced\_Fruit\_Bat CTCATGGTGCTTTAATATGTGAA------AGAGTTCACTCCAAATTGATA [517]

False\_Vampire\_Bat CTCCTGGTGCTTCAATTTGTGAAAGTGAAAGAGTCTACTCCAAACCAGTA [538]

Leaf\_Nosed\_Bat CTCATGATGCTGTAATATGTGAAAGTGGAAGAGTCCACTCCAAACCATTG [538]

Free\_Tailed\_Bat CTCCTGATGCTTTAATATGTGAA------AGAGTCTCCTCTAAACCACTA [517]

Little\_Brown\_Bat CTCATGGTGCTTTAACCTGTGAAAGTGAAAGAGTTCACTCCAAACCAGTA [523]

Tomb\_Bat CTCTTGGTGCTTTACTATGTGAAAGTGAAAGAATCCACTCCAAACCAGTA [523]

Round\_Eared\_Bat CTCATGGCGCTTTAATGTGCGGAAGTGAAAGCGTCCACTCCAAACCAGTG [523]

Human CTCATGAGGCTTTAATATGTAAAAGTGAAAGAGTTCACTCCAAATCAGTA [538]

Galago CTCATTATCCTATAATATGTAAAAGTGAAAGAGTTCACTCCAAACCAATA [538]

Chimpanzee CTCATGAGGCTTTAATATGTAAAAGTGAAAGAGTTCACTCCAAATCAGTA [538]

Gorilla CTCATGAGGCTTTAATATGTAAAAGTGAAAGAGTTCACTCCAAATCAGTA [538]

Orangutan CTCATGAGGCTTTAATTTGTAAAAGTGAAAGAGTTCACTCCAAATCAGTA [538]

Howler\_Monkey CTCATGATCATTTGATATGTAAAAGTGAAAGAGTTCACTGCAAATCAGTA [541]

Rhesus CTCATGAGCCTTTAATATGTAAAAGTGAAAGAGTTCACTCCAGTTCAGTA [535]

Tree\_Shrew TTCATGATGCTTTAATAAGTAAAAGTGAAGGAATCTACTCCAAACCAGTA [526]

Flying\_Lemur CTCATGATGCTTTAATATGTAAAAGTGAAAGAATCCACTCCAGACCAGTA [538]

Mole CTCCC---GCTTTAATGTGTAAAAGTGAAAGAGTCCGCACCAAACCAGTA [535]

Hedgehog CTCATGTTGCTTTAATACGTGAAGGTGAAGGAGTCCACTTCAAACCAGTA [535]

Pangolin CTCATGATGCTTTAATACGTGAAAGTAAAAGAGGCCACTCCAAACCAGTA [538]

Horse CTTCTAGTGCTTTAATATGTGAAAGTGAAAGAGTCCGCTCCAAACCAGTA [538]

Rhino CTCCTGGTGCTTTAATATGTGAAAGTGAAAGAGTCCACTCCAAACCAGTA [538]

Llama CTCATGGTGCTTTAAAATGTGAAAATGAAAAAGTCCACGCCAAACCAGTA [538]

Cow CTCATGGTACTTTAATACAC------GAAAGAGTCCACTCCAAACCCGTA [532]

Pig CTCATGGTGCTTTAATACGTGAACGTGAAAGAGGGCACTCCAAACCAGCA [538]

Hippo CTCGTGGTGCCTTAATACGTGAAAGTGAAAGAGTCCACGCCAAACCAGTA [538]

Sperm\_Whale CTCATGGTGCTTTAATACGTGAAAGTGAAAGAGTCCACTCCAAACCAGTA [538]

Humpback\_Whale CTCATGGTGCTTTAATACGTGAAAGTGAAAGAGTCCACTCCAAACCAGTA [538]

Cat CTCATGATGCTTTGATATGTGAAAGTGAAAGAGTTCACACCAAACCAGTA [532]

Dog CTCAGGATGCTTTCATATGTGAAAGTGAAAGAGTCCACACCAAGCCAGTA [538]

Dugong CTCATAGTGCTTTAATATGTGAAAGTGAAAGAGTCCTCTTCAAACCAGCA [529]

Manatee CTCATAGTGCTTTAATATGTGAAAGTGAAAGAGTCCTCTCCAAACCAGCA [529]

African\_Elephant TGCATGGTGCTTTAATATGTGAAAGTGAAAGAGTCCCCTCCAAACCAGCA [523]

Asian\_Elepphant TGCGTGGTGCTTTAATATGTGAAAGTGAAAGAGTCCCCTCCAAACCAGCA [523]

Rock\_Hyrax CTCCTGGT------------------GAAAGAATCCCCTGCAAACCACCA [511]

Tree\_Hyrax CTCCTGGTGATTTAATATGTGAAAGTGAAAGAATCCCCTGCAAACCACCA [529]

Madagascar\_Hedgehog CTCATGTTCCTTTACTGCCTAAAAGTGAAATAGTCCTTTCCAAACCAGTA [529]

Tenrec CTCCTATTCCCTTACTGCATAAAAGCGCAAGAGTCTTTTCCAAACCAGTA [529]

Golden\_Mole CTCATGATGCTTTAATATGTGAAAATGAGAGAATCCTCTCCAAACCAGCT [529]

Long\_Eared\_Elephant\_Shrew CTCATGATACTTCACTGTATGAAAGTGAAAGAACCCTCTCCAAACCAGCT [526]

Giant\_Elephant\_Shrew CTCAGGGTGCTTCAGTATGTGAAAGTGAAAGAGTCTTCTCTAAACCAGCA [529]

Aardvark CTCATGTTGCTTTAATATGTGAAAGTGAAAGAGTCCTCTCCAAACCAGCA [529]

Wombat CTGATGATGCCTGGCTACATGTGCCTAAAAGAAGCTGTCTCAGGCCTGCA [547]

[ 560 570 580 590 600]

[ . . . . .]

Nine\_Banded\_Armadillo GAGAGTAACATCAAAGATAAAATATTTGGGAAAACCTATCATAGGAAGGC [588]

Hairy\_Armadillo GAGAGTAACATCAAAGATAAAATATTTGGGAAAACCTATCACAGGAAGGC [588]

Anteater GAGAGTAATATCAAAGATAAAATATTTGGGAAAACCTATCACAGGAAGGC [588]

Sloth GAGACTAACATTGAAGATAAAATATTTGGGAAAACCTATCACAGGAAGGC [588]

Flying\_Squirrel AAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCAGAGGAAGGC [588]

Mouse GAGGATAATATCAGTGATAAAATATTTGGGAAATCCTATCAGAGAAAGGG [588]

Rat GAGAATATTATCAACGATAAAATATTTGGGAAAACCTATCAGAGAAAGGG [588]

Old\_World\_Porcupine AAGAGTGACATGGAAGATAAAGTATTTGGGAAAACCTATCAGAGGAGGGT [579]

Jackrabbit GAGAATAATATCAAAGATAAAATATTTGGGAAAACCTACCACAGGAAGAC [588]

Flying\_Fox GAAAGTAATATTGAAGATAAAATATTTGGGAAAACATATCGGAGGAAAGC [564]

Dog\_Faced\_Fruit\_Bat GAAAGTAATATTGAAGATAAAATATTTGGGAAAACATATCGGAGGAAAGC [567]

False\_Vampire\_Bat GAAAGTAATATTGAAGATAAAATATTTGGGAAAACCTACAGGAGGAAGGC [588]

Leaf\_Nosed\_Bat GAAAGTACTATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Free\_Tailed\_Bat GAAAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGAAAGGC [567]

Little\_Brown\_Bat GAAAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [573]

Tomb\_Bat GAAAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [573]

Round\_Eared\_Bat GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [573]

Human GAGAGTAATATTGAAGACAAAATATTTGGGAAAACCTATCGGAAGAAGGC [588]

Galago AAGAGTAAAGTTGAAGATAAAATATTTGGGAAAACTTATCGGAGGAAGGC [588]

Chimpanzee GAGAGTAATACTGAAGACAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Gorilla GAGAGTAATATTGAAGACAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Orangutan GAGAGTAATATTGAAGACAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Howler\_Monkey GAGAGTAGTATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [591]

Rhesus GAGAGTAATATTAAAGACAAAATATTTGGGAAAACCTATCGGAGGAAGGC [585]

Tree\_Shrew GAGGGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAAGC [576]

Flying\_Lemur GAGAGTAATATCAAAGATAAAATATTTGGGAAAACCTATCAGAGGAAGAC [588]

Mole GAAAGTAATATTGAAGATAAGATATTTGGGAAAACCTATCGGAGGAAGAC [585]

Hedgehog AAGAATAATATTGAAGATAAAATATTTGGGAAAACCTATGGGAGGAAGGC [585]

Pangolin GAGAGTAATACTGAAGATAAAATATTTGGGAAAACCTATCGGAAGAAGGC [588]

Horse GAGAATAATATTGAAGATAGAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Rhino GAGAATAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Llama GGGAGTAACATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Cow GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGTC [582]

Pig GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Hippo GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Sperm\_Whale GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Humpback\_Whale GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [588]

Cat GAGAGTAATATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [582]

Dog GGAGGTAATATCGAAGATAAAATATTTGGAAAAACCTATCGGAGGAAGGC [588]

Dugong GAAAGTAACATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [579]

Manatee GAAAGTAACATTGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [579]

African\_Elephant GAAAGTAACATCGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [573]

Asian\_Elepphant GAAAGTAACATCGAAGATAAAATATTTGGGAAAACCTATCGGAGGAAGGC [573]

Rock\_Hyrax AAAAGTAACATCAAAGATAAAATATTTGGGAAAACCTATCAGAGGAAGGG [561]

Tree\_Hyrax AAAAGTAACATCAAAGATAAAATATTTGGGAAAACCTATCAGAGGAAGGG [579]

Madagascar\_Hedgehog GAAAGTAACATCGAAGACAAAATATTTGGGAAAACGTATCGGAGGAAGTC [579]

Tenrec GAAAGTAACATCGAAGACAAAATATTTGGGAAAACGTATCGGAGGAAGTC [579]

Golden\_Mole GTAAGTAACATTGAAGATAAAATTTTTGGGAAAACCTATCGGAGGAAGAC [579]

Long\_Eared\_Elephant\_Shrew GAAAACAACATTGAAGATAAAATATTTGGGAAAACCTATCGGAAGAAGGC [576]

Giant\_Elephant\_Shrew GAAAATAACGTTGAAGATAAAATATTTGGGAAAACCTATCGGAGAAAGTC [579]

Aardvark GAAAGTAACATCGAAGATAAGATATTTGGGAAAACCTATCGGAGGAAGTC [579]

Wombat GAAAACAATATTGAAGATAAAATATTTGGAAAAACCTATCGGAGAAAGTC [597]

[ 610 620 630 640 650]

[ . . . . .]

Nine\_Banded\_Armadillo AAGCCTCCCTAACTTGAGCCACATAACCCGAAACCTTTTTATAGGAGCTA [638]

Hairy\_Armadillo AAGCTTTCCTAACTTGAGCCACATAACTGAGGATCTTTTTATAGGAGCTA [638]

Anteater AAGCCTCCCTAACTTGAGCCGTATAGCTAAAGATCTTTTTATAGGAGCTG [638]

Sloth AAGCCTCCCTAACTTGAGCCACATAGCTGAAAATCTTTTTATAGGAGCCA [638]

Flying\_Squirrel AAGCCTCCCTAACTTGAGCCATATAACTGAAAATCTAATTATAGGAGCAT [638]

Mouse AAGCCGCCCTCACCTGAACCATGTGACTGAA------ATTATAGGCACAT [632]

Rat AAGCCGCCCTCACTTGAACCATGTGACTGAA------ATTATAGGCACAT [632]

Old\_World\_Porcupine GAGCCTCCGCAGCTCAAGCCACGGAGCTGAAAGTCTGACCGTGGGAGCGT [629]

Jackrabbit AAGCCTCCCTAACTTGAGCCACATAACTGAAGATCTAACTATAGGAGCAT [638]

Flying\_Fox AAGCCTCCCTAACTTGAGCCACATAACTGAAAATCTAATTACAGGAGCAT [614]

Dog\_Faced\_Fruit\_Bat AAGCCTCCCTAACTTAAGCCACATAACTGAAAATCTAATTACAAGAGCAT [617]

False\_Vampire\_Bat AAGCCTCCCTAACTTGGGCCACAGAGCTGAAAATCTAATTATAGGAGCAT [638]

Leaf\_Nosed\_Bat AAGCCTCCCTAACTTCAGCCACACAACTGAAAACATAATTATAGGAGCAT [638]

Free\_Tailed\_Bat AAGCTTCCCTAACTTGAGCCACATAAGTGAAAATCTAATTATAGGAGCAT [617]

Little\_Brown\_Bat AAGCCTCCCAAACTTGAGCCACATAACTAAAAATCTAATTGTAGGAGCAT [623]

Tomb\_Bat AAGCCTCCCTAACTTGAGCCATATAACTGAAAATCTAATTATAGGAGCAC [623]

Round\_Eared\_Bat AAGCCTCCCTAACTTGAGCCACGTAACTGACAGGCTAACTACGGGACTGT [623]

Human AAGCCTCCCCAACTTAAGCCATGTAACTGAAAATCTAATTATAGGAGCAT [638]

Galago AAGCCTCCCTAACTTAAGCCATGTAACTGAAAATCTAATTATAAGAGCAG [638]

Chimpanzee AAGCCTCCCCAACTTAAGCCATGTAACTGAAAATCTAATTATAGGAGCAT [638]

Gorilla AAGCCTCCCCAGCTTAAGCCATGTAACTGAAAATCTAATTATAGGAGCAT [638]

Orangutan AAGCCTCCCCAACTTAAGCCATGTAACTGAAAATCTAATTATAGGAGCAT [638]

Howler\_Monkey AAGCCTCCCTAACTTGAGCCACGTAACTGAAAATCTAATTATAGGAGCAT [641]

Rhesus AAACCTTCCCAATTTAAGCCATGTAACTGAAAATCTAATTATAGGAGCAC [635]

Tree\_Shrew AAGTCTTCCTAACTTGAGCCGTGTAACTGATGATCTAATTAGAGGGGCAT [626]

Flying\_Lemur AAGCCTCCCTAACTTGAGCCACGTAAATGAAGATCTAATTATAGGAGCAT [638]

Mole AAGCCTCCCAAACTTGAGCCACGTGGCTGAATATTTAATTACAGGGACAT [635]

Hedgehog AAGCCTTCTTAATTTGAGCCACGTAACTGAAGATGTAATTATA------- [628]

Pangolin AAGTCTCTCTCACTTGAGCCACGTAACTGAAAATCTAATTATTGGAGCAT [638]

Horse AAGCTTCCCTAACTTGAGCCACATAACTGAAGATCTAATTATAGGGGCAT [638]

Rhino AAGCCTCCTTAACTTGAGCCACATAACTGAAGATCTAATTATAGGAGCAT [638]

Llama AAGCCTCCCTAACTTGACCCACAGAGCTGAAGATCTAATTCTAGGAGCAT [638]

Cow AAGTCTCCCTAACTTCAGCCACATAGCTGAAGATCTAATTCTAGGCGCAT [632]

Pig AAGCCTCCCTAACTTGAGCCACGTAATTGAAGATCTAATTTTAGGAGCAT [638]

Hippo AAGCCTCCCTAACTTGAGCCACATAGCTGAAGATCTAATTAAAGGAGCAT [638]

Sperm\_Whale AAGCCTCCCTAACTTGAGCCACGTAGCTGAAAATCTAATTATAGGAGCAT [638]

Humpback\_Whale AAGCCTCCCTAACTTGAGCCACATAGCTGAACATCTAATTATAGGAGCAT [638]

Cat AAGCCTTCCTAACTTGAGCCACACAAGTGAAGATCTCATTATAGGAGCAT [632]

Dog AAGCCTCCCTAAGGTGAGCCACACAACTGAAGTTCTAACTATAGGAGCGT [638]

Dugong AATTCTCCCTCATTTGAGCCATGTAACTGAAGATCTAATTATAGGAGCTG [629]

Manatee AATTCTCCCTCATTTGAGCCATGTAACTGAAGATCTAATTATAGGAGCTG [629]

African\_Elephant AGGTATGTCTCATTTGAGCCACATAACTGAAGATCTGATTATGGGAGCTA [623]

Asian\_Elepphant AGGTATCTCTCATTTGAGCCACATAACTGAAGATCTGATTATGGGAGCTA [623]

Rock\_Hyrax AAGTCTCCCTCACCTGAGCCACATAACCGAAGATCTAGTTAAAGGCGCCA [611]

Tree\_Hyrax AAGTCTCCCTCACCTGAGCCACATAACTGAAGATCTAGTTAAAGGCGCCA [629]

Madagascar\_Hedgehog AAGTCTCCTTAACTCGAGCCATGTAACCGAAGATCTAATGGTAGGAGCTG [629]

Tenrec AAGCCTCCTTAACTCGAGCCATGTAACTGAAGATCTGGTGCTAGGAGCTG [629]

Golden\_Mole AAGTCTCCCTAACTTGAGCCATGTAACTAAAGACCTAATGATAGGAGCTG [629]

Long\_Eared\_Elephant\_Shrew AAGTCTCTCTAACTTGAGCCATGTGACTCAAGATCTCATTACAGGAGCTG [626]

Giant\_Elephant\_Shrew AAGTCTCCCTAACTTGAACCATATAACGCAAGATCTCATTGTAGGAGCTG [629]

Aardvark GAGTCTCCCTAACATAAGCCATATAACTGAAGATCTAATTTTAGGAGCTA [629]

Wombat AGGTCACCCTAATTTGAATTATGTAACTGAAAACTTGTTTGCTGAAGCTG [647]

[ 660 670 680 690 700]

[ . . . . .]

Nine\_Banded\_Armadillo TTGCT---GCAGAGCCCAAGATAACACAAGAGCATTCC------------ [673]

Hairy\_Armadillo TTGCT---ACAGAACCCAAGATAATACAAGAGCATTCC------------ [673]

Anteater TTGCT---GCAGAACCTAAGATAACACAAGAGCTCCCC------------ [673]

Sloth TTGCT---ACAAAACCTAAGATAACACAAGAGCACCCC------------ [673]

Flying\_Squirrel TTGCC---AGAGAACCACAAATAACACAAGAGCTTGCCAGAGAACCACAA [685]

Mouse TTATT---ACAGAACCACAGATAACACAAGAGCAGCCC------------ [667]

Rat TTACT---ACAGAACCACAGATTATACAAGAGCAGCCC------------ [667]

Old\_World\_Porcupine TTGTT---AGAGAGCCGCAGCTGACACTGGAGCGCTCC------------ [664]

Jackrabbit TTGCT---GCGGAACCACTGGTACCATGT---CCCCCC------------ [670]

Flying\_Fox CTGCT---ATAGAACCTCAGATAACACAAGAGTATCCC------------ [649]

Dog\_Faced\_Fruit\_Bat CTGCT---ACAGAACCTCAGATAACACAAGAGTGCCCC------------ [652]

False\_Vampire\_Bat CTGCT---GTAGAACCTCAGATAATACAAGAGTGTCTC------------ [673]

Leaf\_Nosed\_Bat CTGCT---GTAGAACCTCAGATAACACAAGAGTGTCCC------------ [673]

Free\_Tailed\_Bat CTGCT---ATAGAACCCCAGGTAACAAAAGAATGTCCC------------ [652]

Little\_Brown\_Bat CTGCT---ATAGAACCTCAGATAGCACAAGAGTGTCCC------------ [658]

Tomb\_Bat CTACT---ATACAATCTCAGATAACACAAAATTGTCCC------------ [658]

Round\_Eared\_Bat CCGCT---CCAGACCCTCAGATAACACGAGAGCGTCCC------------ [658]

Human TTGTT---ACTGAGCCACAGATAATACAAGAGCGTCCC------------ [673]

Galago CTGCT---ACTGAGCCACAGATAACACAAGAGTGTTCC------------ [673]

Chimpanzee TTGTT---ACTGAGCCACAGATAATACAAGAGCGTCCC------------ [673]

Gorilla TTGTT---ACTGAGCCACAGATAATACAAGAGCGTCCC------------ [673]

Orangutan TTGTT---ACTGAGCCACAGATAATACAAGAGCGTCCC------------ [673]

Howler\_Monkey TTGTT---ACTGAGCCACAGATAATACAAGAGCATCCT------------ [676]

Rhesus TTGTT---ACTGAGTCACAGATAATGCAAGAGCGTCCC------------ [670]

Tree\_Shrew TTGTT---ACAGAGCCTGAGATAACTCGAGAGCGTCCC------------ [661]

Flying\_Lemur TTGTT---ACAGAACCACAGATAACACAAGAGCGTCCC------------ [673]

Mole CTGTC---ACAGAACCTCAGATAGTTCAAGAGCGTCCC------------ [670]

Hedgehog --------AGGGAACCTCAGGTAGCCAAAGAGCCTCTC------------ [658]

Pangolin TTGCA---GTAGAACCTCAGATAACACAAGAGCGTCCC------------ [673]

Horse CTGCT---ATAGAACCTCAGATTACACAAGAGCGTCCA------------ [673]

Rhino CTGCT---ATAGAATCTCAGATTACACAGGAGCGTCCC------------ [673]

Llama CTGTT---CTAGAGCCTCAGATAACACAAGAGCGCCCC------------ [673]

Cow TTACT---GTAGAACCTCAGATAACACAAGAGCAGCCC------------ [667]

Pig CTGCT---GTAGAGCCTCAAATAACACAAGAGCGCCCC------------ [673]

Hippo CTGCT---GTAGGACCTCAGATAACACAAGAGCGCCCC------------ [673]

Sperm\_Whale CTACT---GTAGGACCTCAGATTACACAAGAGCGCCCC------------ [673]

Humpback\_Whale CTACT---GTAGAACCTCAGATAACACAAGAGCGCCCC------------ [673]

Cat GTGCT---ATAGAACCTCAGATAACGCAAGCCTATCCC------------ [667]

Dog GTGCT---ATAGAACCTCAGACAATGCAAACCCATCCC------------ [673]

Dugong TTGCT---ACAGAACCTCAGATAGCACAAGAACGTCCT------------ [664]

Manatee TTGCT---ACAGAACCTCAGATAGCACAAGAACGTCCC------------ [664]

African\_Elephant TTGCT---TCAGAACCTCAGATAGCACGAGAACATCCT------------ [658]

Asian\_Elepphant TTGCT---TCAGAACCTCAGATAGCACGAGAACATCCT------------ [658]

Rock\_Hyrax TTGCT---ACACAACCACAGATAGCACGAGAACATCCT------------ [646]

Tree\_Hyrax TTACT---ACACAACCACAGATAGCACGAGAACATCCT------------ [664]

Madagascar\_Hedgehog CTGCTGCTGTAGCACCTCCGATAGCGCAAGAGCACCTT------------ [667]

Tenrec CGGCTGCCGTAGCGCCTCCGGTAGCACAAGAGCAGCTT------------ [667]

Golden\_Mole TTGCT---ACAGAAGCTCAGATGGCACAAGAACGTCCT------------ [664]

Long\_Eared\_Elephant\_Shrew TTGCT---ACAGAATGTCAAACAGCACAAGAACGCCCT------------ [661]

Giant\_Elephant\_Shrew TTGCT---ACAGGACCTCAGACAGCACAAGAACACCCT------------ [664]

Aardvark TTGCT---ACAGAACCTCAGGTTGCACGAGAATGTCCT------------ [664]

Wombat TGGCT---CCTGATTCCTTGATCCCTCTAGAGGCTCCC------------ [682]

[ 710 720 730 740 750]

[ . . . . .]

Nine\_Banded\_Armadillo ------------------------------------------------CT [675]

Hairy\_Armadillo ------------------------------------------------CT [675]

Anteater ------------------------------------------------CT [675]

Sloth ------------------------------------------------CT [675]

Flying\_Squirrel ATAACACAACAGCTTGCCAGAGAACCACAAATAACACAAGAGCGTCCCCT [735]

Mouse ------------------------------------------------TT [669]

Rat ------------------------------------------------TT [669]

Old\_World\_Porcupine ------------------------------------------------TT [666]

Jackrabbit -------------------------------------------------- [670]

Flying\_Fox ------------------------------------------------CT [651]

Dog\_Faced\_Fruit\_Bat ------------------------------------------------CT [654]

False\_Vampire\_Bat ------------------------------------------------CT [675]

Leaf\_Nosed\_Bat ------------------------------------------------CT [675]

Free\_Tailed\_Bat ------------------------------------------------CT [654]

Little\_Brown\_Bat ------------------------------------------------CT [660]

Tomb\_Bat ------------------------------------------------CT [660]

Round\_Eared\_Bat ------------------------------------------------TT [660]

Human ------------------------------------------------CT [675]

Galago ------------------------------------------------CT [675]

Chimpanzee ------------------------------------------------CT [675]

Gorilla ------------------------------------------------CT [675]

Orangutan ------------------------------------------------CT [675]

Howler\_Monkey ------------------------------------------------CT [678]

Rhesus ------------------------------------------------CT [672]

Tree\_Shrew ------------------------------------------------TT [663]

Flying\_Lemur ------------------------------------------------CT [675]

Mole ------------------------------------------------TT [672]

Hedgehog ------------------------------------------------CT [660]

Pangolin ------------------------------------------------CT [675]

Horse ------------------------------------------------CT [675]

Rhino ------------------------------------------------CT [675]

Llama ------------------------------------------------TT [675]

Cow ------------------------------------------------CT [669]

Pig ------------------------------------------------CT [675]

Hippo ------------------------------------------------CT [675]

Sperm\_Whale ------------------------------------------------CT [675]

Humpback\_Whale ------------------------------------------------CT [675]

Cat ------------------------------------------------CT [669]

Dog ------------------------------------------------TT [675]

Dugong ------------------------------------------------CT [666]

Manatee ------------------------------------------------CT [666]

African\_Elephant ------------------------------------------------TT [660]

Asian\_Elepphant ------------------------------------------------TT [660]

Rock\_Hyrax ------------------------------------------------CT [648]

Tree\_Hyrax ------------------------------------------------CT [666]

Madagascar\_Hedgehog ------------------------------------------------CT [669]

Tenrec ------------------------------------------------CT [669]

Golden\_Mole ------------------------------------------------CT [666]

Long\_Eared\_Elephant\_Shrew ------------------------------------------------CT [663]

Giant\_Elephant\_Shrew ------------------------------------------------CT [666]

Aardvark ------------------------------------------------CT [666]

Wombat ------------------------------------------------AA [684]

[ 760 770 780 790 800]

[ . . . . .]

Nine\_Banded\_Armadillo CCAAAATAAAATAAAGCGTAAAAGGAGAACTGCATCAGGCCTTCGTCCTG [725]

Hairy\_Armadillo CACAAATAAAATAAAGCGTAAAAGGAGAACTACGTCATGCCTTCATCCTG [725]

Anteater GACAAATGAAATGAAGCTTAAAAGGAGGACTACATCAGGACTTCATCCTG [725]

Sloth GACAAAGAAAATAAAGCATAAAAGTAGGACTACATCAGGCCTTCATCCTG [725]

Flying\_Squirrel CACAAATAAATTAAGACGTAAAAGGAGAACTACATCATGCCTTCATCCTG [785]

Mouse CACAAATAAATTAAAACGTAAG---AGAAGTACA---TCCCTTCAACCTG [713]

Rat CACAAATAAATTAAAACGCAAA---AGAAGTACA---TGCCTTCATCCTG [713]

Old\_World\_Porcupine CACAAATAAAATAAAGCGCAAGAGGAGAACCACATCGTGCCTTCATCCTG [716]

Jackrabbit -GCAAATAAATTAAAGCGTAAAAGAAGAACTTCTTCAGGCCTTCAACCTG [719]

Flying\_Fox CACAAATAAACTAAAGCGTAAAAGGAGAACTACATCAGGCCTTCATCCTG [701]

Dog\_Faced\_Fruit\_Bat CACAAATAAACTAAAACGTAAAAGAAGAACTACATCAGGCCTTCATCCTG [704]

False\_Vampire\_Bat CATAAATAAACTAAAGCGTAAAAGGAGAACTACATCAGCCCTCCATCCTG [725]

Leaf\_Nosed\_Bat CACAAACAAACTAAGGCGTAAGAGGCGAACTACGTCAGGCCTTCATCCTG [725]

Free\_Tailed\_Bat CACAAATAAACTAAAGCGTAAAAGAAGA---ACATCAAGCCTTCATCCTG [701]

Little\_Brown\_Bat CACAAATAAACTAAAGCGTAAAAGGAGAAGTACATC?GGCCTTCATCCTG [710]

Tomb\_Bat CACAGATAAACTAAAGCATAAAAGAAGAACTACATCAGGCCTTCGTCCTG [710]

Round\_Eared\_Bat CACCAACAAACTAAAGCGTAAAAGGAGAACTACACCGGGCCTTCACCCAG [710]

Human CACAAATAAATTAAAGCGTAAAAGGAGACCTACATCAGGCCTTCATCCTG [725]

Galago CACAAATAAATTAAAACGTAAAAGGAGAACTACATCAGGTCTTTGTCCTG [725]

Chimpanzee CACAAATAAATTAAAGCGTAAAAGGAGAGCTACATCAGGCCTTCATCCTG [725]

Gorilla CACAAATAAATTAAAGCGTAAAAGGAGAGCTACATCAGGCCTTCATCCTG [725]

Orangutan CACAAATAAATTAAAGCGTAAAAGGAGAGCTACATCAGGCCTTCATCCTG [725]

Howler\_Monkey CACAAATAAATTAAAGCGTAAAAGGAGAGTTACATCAGGACTTCATCCTG [728]

Rhesus CACAAATAAATTAAAGCGTAAAAGGAGAACTACATCAGGTCTTCATCCTG [722]

Tree\_Shrew CACAAATAAATTAAAGCGGAAAAGGAGAACTATATCAGGCCTTCATCCTG [713]

Flying\_Lemur CACAAATAAGGTAAAGCCTAAAAGGAGAACTACATCAGGCCTTCATCCTG [725]

Mole CACAAATAGATTAAAACGTAAAAGGAGAACTCTACCAGGCCTTTGTCCTG [722]

Hedgehog TGCAACTAAATTAAAACGTAAAAGGAGAACTGATGTAGGTCTTTGTCCTG [710]

Pangolin CAGAAATAGAGTAAAGCGTAAAAGGAGAACTACATCAGGCCTTCATCCTG [725]

Horse CACAAATAGAGTGAAGCATAAAAGGAGAACGTCATCAGGCCTTCATCCTG [725]

Rhino CACAAATAAACTGAAGCATAAAAGGAGAACTACATCAGGCCTTCATCCTG [725]

Llama CACAAATAAACTAAAGCGTAAAAGGAGAACTCTACCAGGTCTTCATCCTG [725]

Cow CACAAATAAACTAAAATGTAAAAGGAGAGGTACATCAGGCCTTCAGCCTG [719]

Pig CACAAATAAACTAAAGCGGAAAAGGAGAGGTACATCAGGCCTTGATCCCG [725]

Hippo CACAAATAAACTAAAGCGTAAAAGGAGGCGGACATCGGGCCTTCATCCTG [725]

Sperm\_Whale CACAAATAAACTAAAGCGTAAAAGGAGAAGTACATCAGGCCTTCATCCTG [725]

Humpback\_Whale CACAAATAAACTAAAGCGTAAAAGGAGAAGTACATCAGGCCTTCATCCTG [725]

Cat CACAAATAAAACAAAGCGTAAAAGGAGATCTACCGCAGGCCTTCATCCTG [719]

Dog CATGAATAAAGCAGAGCATAAAAGGAGAACTACATCTAGCCTTCATCCTG [725]

Dugong TACAAATAAATTAAAGCGTAAAAGGAGA---ACATCAGGCCTTCATCCTG [713]

Manatee TACAAATAAATTAAAGCGTAAAAGGAGA---ACATCAGGCCTTCATCCTG [713]

African\_Elephant TACAAATAAATTAAAGCGTAAAAGGAGA---ACATCAGGCCTTCATCCTG [707]

Asian\_Elepphant TACAAATAAATTAAAGCGTAAAAGGAGA---ACATCAGGCCTTCATCCTG [707]

Rock\_Hyrax TACAAATAAGTTACAGCATAAAAGGAGA---ACATCAGGCCTTCATCCTG [695]

Tree\_Hyrax TACAAATAAGTTACAGCATAAAAGGAGA---ACATCAGGCCTTCATCCTG [713]

Madagascar\_Hedgehog TACCAGTAAATTAAAACGC---AGAAGA---TCATCCGTCCTCCACCCTG [713]

Tenrec TACCAGTAAATTAAAGCGCAAGAGGAGA---TCCTTCGTCCTGCACCCTG [716]

Golden\_Mole TACAAATAAATTAAAGCGCAAAAGGAGA---ACCTCAGGCCTTCATCCTG [713]

Long\_Eared\_Elephant\_Shrew TACAAATAAATTAAAGCGTAAAAGAAGA---ACATCAGGCCTTCAGCCTG [710]

Giant\_Elephant\_Shrew TATAAATAAACTAAAGCGTAAAAGGAGA---ATATCTGGCCTTCGTCCTG [713]

Aardvark TGGAAATAAATTAAAGCGTAAAAGGAGA---ACATCAGGCCTTCATCCTG [713]

Wombat AAACACCAGGTTAAAGCGTAAAGGAAGGAGCATAGCTGACCTGCAGCCTG [734]

[ 810 820 830 840 850]

[ . . . . .]

Nine\_Banded\_Armadillo AGGATTTATCCAAGAAAGTAGATTTGACAGTTGTTCAAAAAACCCCTGAA [775]

Hairy\_Armadillo AGGATTTTATCAAGAAAGTAGATTTGACAGTTGTTCAAAAGACGCCTGAA [775]

Anteater AGGATTTTATCAAGAAAGTAGATTTGACAGTTGTTCAAAAGAAGCCTAAA [775]

Sloth AGGATTTTATCAAGAAAGTCGATTTGACAGTTGTTCAAAAGATGCCTGAA [775]

Flying\_Squirrel AGGACTTTATCAAGAAAACAGATTTGGCAATTGTTCAAAAGACTCCTGAA [835]

Mouse AGGACTTCATCAAGAAAGCAGATTCAGCAGGTGTTCAAAGGACTCCTGAC [763]

Rat AGGACTTTATCAAGAAAGCAGATTTAACAGTTGTTCAAAGGATTTCTGAA [763]

Old\_World\_Porcupine AGGACTTTGTCAAGAAAGCAGATTTGACAGTGGCTCAAAAGACTCCTGAA [766]

Jackrabbit AAGATTTTATCAAGAAGGTAGATTTGGCAGTTGTTCCAAAAACCACTGCA [769]

Flying\_Fox AGGATTTTATCAAGAAAATAGATTTGGCAGTTGTTCAGAAAACTCCGGAA [751]

Dog\_Faced\_Fruit\_Bat AGGATTTTATCAAGAAAATAGATTTGACAACTGTTCAAAAAACTTCTGAA [754]

False\_Vampire\_Bat AGGATTTTATCAAGAAAGTAGATGTGGCAGTTGTTGAAAAGATTCCTGGA [775]

Leaf\_Nosed\_Bat AGGATTTCATCAAGAAAGTAGATTTGACAGTTGTTCAAAAGACTCCTGAA [775]

Free\_Tailed\_Bat AGGATTTTATCAAGAAAGTAGATTTGGCAGTTGTTCAAAAGACTCTTGAA [751]

Little\_Brown\_Bat AGGATTTTATTAAGAAAGTAGATTTGGCAGTTGTTCAAAAGACTCCTGAA [760]

Tomb\_Bat AGGATTTTATCAAGAAGGTAGATTTGGCAGCTGTTCAGAAGACTCCTGAA [760]

Round\_Eared\_Bat AGGATTTTATCAAGACAGTGGATTTGACCGTTGTCCAGAAGACTCCTGAG [760]

Human AGGATTTTATCAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [772]

Galago AGGATTTTATCAAGAAGGCAGATTTGGCAGTTGTTCAAAAGACACCTGAA [775]

Chimpanzee AGGATTTTATCAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [772]

Gorilla AGGATTTTATCAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [772]

Orangutan AGGATTTTATCAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [772]

Howler\_Monkey AGGATTTTATCAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [775]

Rhesus AGGATTTTATAAAGAAAGCAGATTTGGCA---GTTCAAAAGACTCCTGAA [769]

Tree\_Shrew AAGATTTTATCAAGAAAACAGATTTGGCAGTTGTTCAAAAGACTCCTGAA [763]

Flying\_Lemur AGGATTTTATCAAGAAAGCAGACTTGGCAGTTGTTCAAAAAACTCCTGAA [775]

Mole AGGATTTTATCAAGAAAGTAGATTTGGAAGTTGTTCAGAACACCCCTGAA [772]

Hedgehog AGGATTTTATCAAGAAAGTAGATGTGGCAATTGTTCAGAAGACTCCTGAA [760]

Pangolin AGGATTTTATCAAGAAAGTAGATTTGGAAGTTGTTCAAAAGACTCCTGAA [775]

Horse AGGATTTTATCAAGAAAGTAGATTTGGCAGTTGTCCAAAAGACTCCTGAA [775]

Rhino AGGATTTTATCAAGAAAGTAGATTTGGCAGTTGTCCAAAAGACTCCTGAA [775]

Llama AGGATTTTATCAAGAAAGTCGATTTGGCCGTTGTTCAAAAGTCTCCTGAA [775]

Cow AGGATTTTATCAAGAAAGTCGATTTGACAATTGTTCCAAAGACTCCTGAA [769]

Pig AGGATTTTATCAAGAGAGCCGATTCGGCAGTTGTTCCAAAAACTCCTGAA [775]

Hippo AGGATTTTATCAAGAAAGTCGATGCGGCAGTTGTTCCAAAGACTCCTGAA [775]

Sperm\_Whale AGGATTTTATCAAGAAAGTCGATTTGGCAGTTATTCCAAAGACTCCTGAA [775]

Humpback\_Whale AGGATTTTATCAAGAAAGTCGATTTGGCAGTTATTGCAAAGACTCCTGAA [775]

Cat AGGATTTTATCAAGAAAGTAGATTTGGCCATTGTTCAAAAGACTCCTGAA [769]

Dog AGGATTTTATCAAGAAAGTAGAGTTAGGCATTGTTCCAAAGACTCCTGAA [775]

Dugong AGGATTTCATCAAGAAAGTAGATTTGGCAGTTGTTCAAAAGACTCCTGAA [763]

Manatee AGGATTTCATCAAGAAAGTAGATTTGGCAGTTGTTCAAAAGACTCCTGAA [763]

African\_Elephant AGGATTTTATCAAGAAAGTAGATTTGGCAGTTGTTCAAAAGATCCCTGAA [757]

Asian\_Elepphant AGGATTTTATCAAGAAAGTAGATTTGGCAGTTGTTCAAAAGATCCCTGAA [757]

Rock\_Hyrax AGGATTTTATCAAAAAAGCAGATTTGACAGTTGTTCAGAAGGCATCTGAG [745]

Tree\_Hyrax AGGATTTTATCAAAAAAGCAGATTTGACAGTTGTTCAGAAGGCATCTGAG [763]

Madagascar\_Hedgehog AGGACTTTATCAAGAAAGCAGATTTGGCAGTTGTT------------GAA [751]

Tenrec AGGACTTCATCAAGAAAGCAGATTTGGCTGTCGTTCAAAAGACTCCTGAA [766]

Golden\_Mole AGGATTTTATCAAGAAAGCAGGCATGAAAGTTGTTCAAAAGACTCCTGAA [763]

Long\_Eared\_Elephant\_Shrew AGGATTTTATCAAGAAGGTAGATTTGACAGTTGTTCAAAAGATTCCTGAA [760]

Giant\_Elephant\_Shrew AAGATTTTATCAAGAAGGTAGATTTGACT---AGTCAGAAGACTCCTGAA [760]

Aardvark AGGATTTTATTAAGAAAGTAGATTTGGCA---GTTCAAAAGACTCCTGAA [760]

Wombat AGGATTTCATCAGGAAGACGGACGTTCCAGTTATTCACAAAACCCCTGAA [784]

[ 860 870 880 890 900]

[ . . . . .]

Nine\_Banded\_Armadillo AAGATAAATCAGGGAACTGACCAAAT---------GGAGCAGAAT---GA [813]

Hairy\_Armadillo AAGATAAATCAGGGAACTGACCAAAT---------GGAGCAGAAT---GA [813]

Anteater ATGATAAATCAGGGAACTAACCAAAT---------AGAGCAGAAT---TG [813]

Sloth AAGATAAATCAGGGAACTGACCAAAT---------GGAGCAGAAGAATAG [816]

Flying\_Squirrel AAGATAAATCAGGGAACTGACCAAAT---------GGAACACAAT---GA [873]

Mouse AACATAAATCAGGGAACTGACCTAAT---------GGAGCCAAAT---GA [801]

Rat AATTTAAATCAGGGAACTGACCAAAT---------GGAGCCAAAT---GA [801]

Old\_World\_Porcupine AAGGTAAATCAGGGAACGAAGCAAAT---------GGAGGAGAGT---AG [804]

Jackrabbit CAGATAAATCAGGGAACTGATCAAAC---------GGTGGACAGT---GA [807]

Flying\_Fox AACATAATTGAGGAAACTGACCAAAT---------AGAGCAGAAT---GG [789]

Dog\_Faced\_Fruit\_Bat AATATAATTGAGGGAACTGACCAAAT---------AGAGCAGAAT---GG [792]

False\_Vampire\_Bat GATAGAATCAAGGGAACTGACCAAAT---------AGAGCAGCAT---GG [813]

Leaf\_Nosed\_Bat AAGATAATTGAGAGAACTCACCAAAC---------AGAACAGAAT---GG [813]

Free\_Tailed\_Bat AAGGTAATTGAGGGAACTGACCAAAT---------AGAACAGAAT---GG [789]

Little\_Brown\_Bat GAGATAATTAAGGGAACTGACCGAAT---------AGAACAGAAT---GG [798]

Tomb\_Bat AAGATAATTGAGGGAACTGATCAAAC---------AGAACAGAAT---GG [798]

Round\_Eared\_Bat AAGACCATTGAGGGAACTGACCAAAC---------AGAACAGAAC---GG [798]

Human ATGATAAATCAGGGAACTAACCAAAC---------GGAGCAGAAT---GG [810]

Galago AAGAGAATTCAGGGAACTAACCAAGT---------GGATCAGAAT---AG [813]

Chimpanzee ATGATAAATCAGGGAACTAACCAAAT---------GGAGCAGAAT---GG [810]

Gorilla ATGATAAATCAGGGAACTAACCAAAT---------GGAGCAGAAT---GG [810]

Orangutan ATGATAAATCAGGGAACTAACCAAAT---------GGAGCAGAAT---GG [810]

Howler\_Monkey AAGATAAATCAGGGAACTAACCAAAC---------AGAGCGGAAT---GA [813]

Rhesus ATAATAAATCAGGGAACTAACCAAAT---------GGAGCAGAAT---GG [807]

Tree\_Shrew AAGATAAATCAGAGAACTGACCAAAT---------AGAGCATAAT---GG [801]

Flying\_Lemur AAGATAAATCAGGGAATTGACCAAAT---------GGAGCAGAAT---GA [813]

Mole AAGATAAGTGCGGGAACTGATCAAAT---------GGATCAGAGT---GG [810]

Hedgehog AAGATAATCAAGAGACCTGGCCAACT---------GGATCAAAGT---GA [798]

Pangolin AAGATAATTGAGGGAACCGACCAAAT---------AGAGCAGAAT---GC [813]

Horse AAGATAATTGAGGGAACTGACCAAAT---------AGAGCAGAAC---AG [813]

Rhino AAGATAATTGAGGGAACTGACCAAAT---------AGAGCAGAAC---GG [813]

Llama AAGATAATTGAGCGAACAGACCAAAC---------AGAGCAGAAT---GG [813]

Cow AAGATGACGGAGGGAACTGACCAAAC---------AGAGCAGAAA---TG [807]

Pig AAGACAATTGAGGGAACTGATGAGAC---------AGAGCAGAAT---GG [813]

Hippo AAGATAATTGAGGGAACTGATCAAAC---------AGAGCAGAAT---GG [813]

Sperm\_Whale AAAATAATTGAGGGAACTGACCAAAC---------AGAGCAGAAT---GG [813]

Humpback\_Whale AAAATAACTGAGGGAACTGACCAAAC---------AGAGCAGAAT---GG [813]

Cat AAGCTAATTGAGGGAACCGATCGAAT---------AGGGCAAAAT---GG [807]

Dog AAGCTAATTGAGGGAATCAACCAAAT---------CAAGCGAGAT---GG [813]

Dugong AAGATAAATCAAGAAACTGACCAAGT---------GGAGCAGAAT---GG [801]

Manatee AAGATAAATCAGGAAACTGACCAAGT---------GGAGCAGAAT---GG [801]

African\_Elephant AAGATAAATCAGGAAACTGACCATGT---------GGAGCAGAAC---GG [795]

Asian\_Elepphant AAGATAAATCAGGAAACTGACCATGT---------GGAGCAGAAC---GG [795]

Rock\_Hyrax AAGATAAATCAGGAAACTGACAAAGT---------GGAGCAGAGT---GG [783]

Tree\_Hyrax AAGATAAATCAGGAAACTGACAAAGT---------GGAGCAGAGT---GG [801]

Madagascar\_Hedgehog AAGATCAACCAGGGAACTGACCAAAC---------ACGGCCGAAG---GG [789]

Tenrec ACGATCCATCAGGGACCTGACCCAAT---------GCAGCCGAAG---GG [804]

Golden\_Mole AAGATAAATCAAGAAACTAACCAAAT---------GGAGCAGAAT---GA [801]

Long\_Eared\_Elephant\_Shrew AAGACAAATCAGGAAACTGAACAAAT---------GGTGCAGAAT---GG [798]

Giant\_Elephant\_Shrew AAGAGAAATCAG---------------------------ACCATT---TA [780]

Aardvark AAGATAAATCAGGAAAATGACCAAAT---------GGAACAAAAT---GG [798]

Wombat AAGAAAAATCACTCTGTTGACCAAATTCTCAAAAGAGAACAAAGT---GA [831]

[ 910 920 930 940 950]

[ . . . . .]

Nine\_Banded\_Armadillo TCCAGTGATGAATATTGCTAATAGTGGT---CATGAGAATGAAACAAAA- [859]

Hairy\_Armadillo TCAAGTGATGAATAGTGCTAATAGTGGT---CATGAAAATGAAACAAAA- [859]

Anteater TCAACTGATGAATATTGCCAATAGTGGT---AATGAAAATGAAACAAAA- [859]

Sloth TCAAGTGATAAATATTGCTAATAGTGGT---CATGAGAATGAAACAAAA- [862]

Flying\_Squirrel TCAAGTAATGAATATTACTAATAGTGGT---CAAGAGAATGAAACAAAA- [919]

Mouse GCAAGCAGTGAGTACTACCAGTAACTGT---CAGGAGAACAAAATAGCA- [847]

Rat CCAAGCAATGAGTATTACCAGTAACGGT---CAGGAGAACAGAGCAACA- [847]

Old\_World\_Porcupine TCAAGTGACAAATACTACTAATAACAGT---CATGAGAATGAGACAAAA- [850]

Jackrabbit TCAGGTGATGAATATTACTAATTGTGGT---AATGAGAATGAAACAGAA- [853]

Flying\_Fox TCATGTGATGAATAGTACTAATAATGGT---CATGAGAATGAAACAAAA- [835]

Dog\_Faced\_Fruit\_Bat TCATGTGATGAATAGTTCTAATGATGGT---CATGAGAATGAAACAAAA- [838]

False\_Vampire\_Bat TCATGTGATGAATATTACTAATTATGGT---CATGAGAATGAAACAAAT- [859]

Leaf\_Nosed\_Bat TCATGTGATGAACATTACTGATAATGGT---CATGGGAATGAAACAAAA- [859]

Free\_Tailed\_Bat TCATGTGATGAGTATTACTAGTAATTGT---CATGAGAATAAAACAAAA- [835]

Little\_Brown\_Bat TCATGAGATGAATATTACTAATAATGAT---CATGAGAATGAAACAAAA- [844]

Tomb\_Bat TTCTGTGATGAATATTACTGATAATGGT---CATGAGGATGAAACAAAA- [844]

Round\_Eared\_Bat TCGTGTGATGGATATTGCTAACAGTGGT---CACGGGAATGAAGCAAAA- [844]

Human TCAAGTGATGAATATTACTAATAGTGGT---CATGAGAATAAAACAAAA- [856]

Galago TCACGTGGTAAATATTACTAATAGTGGT---TATGAGAATGAAACAAAA- [859]

Chimpanzee TCAAGTGATGAATATTACTAATAGTGGT---CATGAGAATAAAACAAAA- [856]

Gorilla TCAAGTGATGAATATTACTAATAGTGGT---CATGAGAATAAAACAAAA- [856]

Orangutan TCAAGTGATGAATATTACTAATAGTGGT---CATGAGAATAAAACAAAA- [856]

Howler\_Monkey TCAAGTGATGAATATTACTAACAGTGGT---CATGAGAATAAAACAAAA- [859]

Rhesus TCAAGTGATGAATATTACTAATAGTGCT---CATGAGAATAAAACAAAA- [853]

Tree\_Shrew TCAGGTGATGAGTATTGCTAATAGTGGT---CATGAGAATGAAACAAAA- [847]

Flying\_Lemur TCGAGTGATGAATATTATTAATAGTGGT---CATGAGAATGAAACAAAG- [859]

Mole TCAAGTGATGGATGTTGCTTATAATGGT---CATGGGAATGAAACAAAA- [856]

Hedgehog CCAAGTAATGAATATTGCTACTAATGGT---CATGAAACTGAAACAAAG- [844]

Pangolin TCTTCTGATGAATAGAACAAATAACGGT---CATAAGAATGAAACAAAA- [859]

Horse TCATGTGATGAATATTACTCCTAATGGT---CATGGGAATGAAACAAAA- [859]

Rhino TCGTGTGATGAGTATTGCTAATAATGGT---CATGAGAATGAAACAAAA- [859]

Llama TCATGGGATGAATATTACTAGTAATGGT---CATGAGAATGAAACAAAC- [859]

Cow TCATGGGATGAATATTACTAGTGATGGT---CATGAGAATAAAACAAAA- [853]

Pig TCAGGGGATGAATATTACCAGTAAAGGT---CATGAGAATGAAACAAAA- [859]

Hippo TCAT------------------------------GAGAATGAAATGAAA- [832]

Sperm\_Whale TCATGGGGTGAATATTACTAGTAATGGT---CATGAGACTGAAATGAAA- [859]

Humpback\_Whale TCATGGGATGCATGTTACTAGTAATGGT---CCTGAGACTGAAATGAAA- [859]

Cat CCATGTGATGAATAGAACAAATAATGGT---CCTGAGAATGGGACAAAA- [853]

Dog TCATGTGATAAATATTACAAATAATGGT---CCTGAGAATGAAACAGAA- [859]

Dugong TCAAGTGATGAATATTGCTAATGGTGGT---CATGGAAATGAAACAAAA- [847]

Manatee TCAAGTGATGAATATTGCTAATGGTGGT---CATGAAAATGAAACAAAA- [847]

African\_Elephant TCAAGTGATGAATATTGCTAATGGTGGT---CGTGAGAATGAAACAAAA- [841]

Asian\_Elepphant TCAAGTGATGAATATTGCTAATGGTGGT---CGTGAGAATGAAACAAAA- [841]

Rock\_Hyrax TCAAGTGATAAATATTGGTAATGGTGGT---CATGAGAATGAAACAAAA- [829]

Tree\_Hyrax TCAAGTGATAAATATTGCTAATGGTGGT---CATGAGAAGGAAACAAAA- [847]

Madagascar\_Hedgehog TCAAGTGGAGCATACTCCCGATGGTGGT---CACGGGCATGGAACAAAAG [836]

Tenrec GCCAGTGCAGAAGATTCCCGATGGTGGT---CCCGGGCGAGGGACAAAAG [851]

Golden\_Mole TCAAGTGAGGAATATTGTTGATGGTGGT---CATGAAAATGATACAAAA- [847]

Long\_Eared\_Elephant\_Shrew TCAAGTGAAGAATAAGATTGCTAGTGGTGGTCATGAGAGTGATACAAAA- [847]

Giant\_Elephant\_Shrew CCAAGTGGACAGTAGTATTGCTGGCGGTGGTCATGAGCATGAAACGAAA- [829]

Aardvark TCAGGAGGAGAATATTGCTGATGGCTGT---CATGAGAATGCAACAAAA- [844]

Wombat CCAAGTGATGAACACGGCTAACAGTCTT---CCTGAGCAGAAAGCCCTA- [877]

[ 960 970 980 990 1000]

[ . . . . .]

Nine\_Banded\_Armadillo --GGTGATTGTGTTCAGAAAGAGAAAAATGCTAATCCGACAGAA------ [901]

Hairy\_Armadillo --GGTGATTATGTTCAGAAAGAGGAAAATGCTAACCCAATAGAA------ [901]

Anteater --GGTGATTTTGTTCAGAAGGAGAAAAGTGCTAACCCAACAGAA------ [901]

Sloth --GATGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [904]

Flying\_Squirrel --GTTGATTATGTTCAGAAAGAGAAAAATGCTAACCCAGTTGAA------ [961]

Mouse --GGTAGTAATCTCCAGAAAGAGAAAAGCGCTCATCCAACTGAA------ [889]

Rat --GGTAATGATCTTCAGAGAGGGAGAAATGCTCATCCAATAGAA------ [889]

Old\_World\_Porcupine --ATGGGCAATGTTCAGAGA------AACCCTAACCCAGTACTA------ [886]

Jackrabbit --GGTGACTATATTCAGAAAGAGACAAATGCTAACCCAACAGAA------ [895]

Flying\_Fox --GGTGATTATGTTCAGAAGAAGAAAAATACAAACCCAACAGAA------ [877]

Dog\_Faced\_Fruit\_Bat --GGTGATTATGTTCAGAAGAAGAAAAATACAAACCCAACAGAA------ [880]

False\_Vampire\_Bat -----------------------------GCTCACTCAACAGAA------ [874]

Leaf\_Nosed\_Bat --GGTGATTATGTTCAGAAAGAGGATAATGCTAACCCAACAGAA------ [901]

Free\_Tailed\_Bat --GGTGATTATGTTCAGAAAGAGAAAAATTCTAACCCAACAGAA------ [877]

Little\_Brown\_Bat --GGTGATTGTGTTCAGAAAGAGAAAAATGCTAACCTAACAGAA------ [886]

Tomb\_Bat --TGTGATTATGGTCAGAAAGAGAAAAATGCTAACCCAGCAGAA------ [886]

Round\_Eared\_Bat --GGTGATTATGTTCAGAATGAGAAGAGTTCTGACCCAACAGAA------ [886]

Human --GGTGATTCTATTCAGAATGAGAAAAATCCTAACCCAATAGAA------ [898]

Galago --GGTGATTATGTTCAGAATGAAAAAAATGCTAACTCAACAGAA------ [901]

Chimpanzee --GGTGATTCTATTCAGAATGAGAAAAATCCTAACCCAATAGAA------ [898]

Gorilla --GGTGATTCTATTCAGAATGAGAAAAATCCTAACCCAATAGAA------ [898]

Orangutan --GGTGATTCTATTCAGAATGAGAAAAATCCTAACCCAATAGAA------ [898]

Howler\_Monkey --GGTGATTCTATTCAGAATGAGAACAATCCTAACCCAGTAGAA------ [901]

Rhesus --GGTGATTCTATTCAGAATGAGAAAAATCCTAACCCAATAGAA------ [895]

Tree\_Shrew --GGTGATTATATTTCGAAAGAGAAAAATGCTAACCCAATGGAA------ [889]

Flying\_Lemur --GATGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [901]

Mole --CGTGATTATGTTCAGAAAGAGAAAAGTGCTAACCCAGCCGAA------ [898]

Hedgehog --AGTGATTATGTTCAGAAGGAGAAAAATGCTAACCCAGCAGAA------ [886]

Pangolin --GGTGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [901]

Horse --GGCGATTATGTTCAGAATGAGAAAAACGCTTACCTAACAGAA------ [901]

Rhino --GGTGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [901]

Llama --GACGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [901]

Cow --CGTGATTATGTTCAGAAAGAGCAAAACGCTAACCCAGCAGAA------ [895]

Pig --AGTGGTAATGTTCAGAAAGAGAAAAATGTTAACCCAACTGCA------ [901]

Hippo --GGTGATTATGTTCAGAAAGAAAAAAATGCTAACCCAACAGAA------ [874]

Sperm\_Whale --GGTGATTGTGTTCAGAAAGAGAAAAATGCTAACCTAACAGAA------ [901]

Humpback\_Whale --GATGATTATGTTCAGAAAGAGAAAAATGCTAACCTAACAGAG------ [901]

Cat --GGTGATTATGTTCAGAAAGAGAAAAATGCTAAGCCAACAGAA------ [895]

Dog --GGTGATTATGTTCAGAAAGAGAAAAATGCTAACCCAACAGAA------ [901]

Dugong --GATGATTATGTTCAGAAAGAGAAGAATGCTAACCCAACAGAA------ [889]

Manatee --GATGATTATGTTCAGAAGGAGAAGAATGCTAACCCAACAGAA------ [889]

African\_Elephant --GGTGATTATGTTCAGAAAGAGAAGAATGCTATCCCAACAGAA------ [883]

Asian\_Elepphant --GGTGATTATGTTCAGAAAGAGAAGAATGCTATCCCAACAGAA------ [883]

Rock\_Hyrax --GATGATTATGTTCTGAAAGAGAAGAATGGTAACCCAGCAGAA------ [871]

Tree\_Hyrax --GATGATTATGTTCTGAAAGAGAAGAATGGTAACCCAGCAGAA------ [889]

Madagascar\_Hedgehog GCGGGAATTGTGTTCAGAAGGAG---AGTGCTGACCTGGCAGAA------ [877]

Tenrec GCGGGGATCGTGTTCCGAAGGAGAAGAGTGCTAACCTGGCAGAA------ [895]

Golden\_Mole --AGTGATTATGTTCAGAAAGAGAAGAGTGCTAACCCAGCCAAA------ [889]

Long\_Eared\_Elephant\_Shrew --GGTGATTATGTTCAGGAAGAGAAGAATACTAACCCAACAGAG------ [889]

Giant\_Elephant\_Shrew --GGTGACTGTGTTCAGAAAGAGAAGAATGTTAGCCCAGCAGAA------ [871]

Aardvark --GGTGAATACATGCAGAAAAAGAAGAGTGCAAATCCAACAGAA------ [886]

Wombat --GGTGGTCATGTAGGGGAAGTGAAAGATGTTCAGGTATTAGAGCTGTTC [925]

[ 1010 1020 1030 1040 1050]

[ . . . . .]

Nine\_Banded\_Armadillo TCATTGGGAAAAGAATCTGCTTTCAGAACTAAAGGCGAACCTATAAGCAG [951]

Hairy\_Armadillo TCATTGGAAAAAGAATCTGCTTTCAGAACTAAAGGTGAACCTATAAGCAG [951]

Anteater TCATCAGAAAAAGAATCTGCTTTCAGAACTAAAGGTGAACCTATAAGTAG [951]

Sloth TCATTGGAAAAAGAATCTGCTTTCAGAACTGAAGGTGAACCCATAAGCAG [954]

Flying\_Squirrel TCATTGGAAAAAGAGTCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [1011]

Mouse TCATTGAGAAAGGAACCTGCTTCCACAGCAGGAGCCAAATCTATAAGCAA [939]

Rat TCATTGAGAAAGGAACCTGCTTTCACAGCTAAAGCCAAATCTATAAGCAA [939]

Old\_World\_Porcupine TCAGTGGAAAAAGAGTCTGCTTCTGGTACTAACGCAGAGCCCTCGAGCAG [936]

Jackrabbit TCCCTAGAAAAAGACTCTTCCTTCAGAACTAAAGTTGAACCTATAAGCAG [945]

Flying\_Fox TCATTGGAAAAAGAATCTACTTTCAAAACTAAAGCTGAACCTATATGCAG [927]

Dog\_Faced\_Fruit\_Bat TCATTGGAAAAAGAATCTGCTTTCAGAACTAAAGTTGAGTCTGTACCCAA [930]

False\_Vampire\_Bat TCACTGGACAAAGAATCTGCTTTTAGAACTAAAGCTGAACCTATAAGCAG [924]

Leaf\_Nosed\_Bat TCATTGGAAAAAGAATCTGCTTTCAGAACTACAGCTGAACCTATAAGCAG [951]

Free\_Tailed\_Bat TCATTGGAAAAAGAATCTGCTTTCACAACTAAAGCTGAACCTATAAGCAG [927]

Little\_Brown\_Bat TCACTGGAAAAAGAATCTGCGTTCACAAGTAAAGCTGAACCTATAAGCAG [936]

Tomb\_Bat TCATTGGAAAAAGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [936]

Round\_Eared\_Bat TCACTGGGAGAAGAACCCGCTTTCAGAACTAAAGCTGGACCTATAAGCAG [936]

Human TCACTCGAAAAAGAATCTGCTTTCAAAACGAAAGCTGAACCTATAAGCAG [948]

Galago TCATTGGAAAAAGAATCTTCTCTCGGAACTAAAGCTGAACCTATAAGCAG [951]

Chimpanzee TCACTCGAAAAAGAATCTGCTTTCAAAACGAAAGCTGAACCTATAAGCAG [948]

Gorilla TCACTAGAAAAAGAATCTGCTTTCAAAACGAAAGCTGAACCTATAAGCAG [948]

Orangutan TCACTCGAAAAAGAATCTGCTTTCAAAACAAAAGCTGAACCTATAAGCAG [948]

Howler\_Monkey TCACTGGAAAAAGAATCA---TTCAAAAGTAAAGCTGAACCTATAAGCAG [948]

Rhesus TCACTGGAAGAAGAATCTGCTTTCAAAACTAAAGCTGAACCTATAAGCAG [945]

Tree\_Shrew TCATTAGAAAAAGAATCTGCTCTCAGAACTAAAGCTGAGCCCATAAGCAG [939]

Flying\_Lemur TCATTGGAAAAAGAATCTGCTTTCAGAACTAAAGCAGAACCTATAAGCAG [951]

Mole TCTTTAGAAAAAGAATCTACCTTCAGAATTAAAGCTAAGCCCATAAGTAG [948]

Hedgehog TCACCAGACAAAGAATCTGCTTTTAGAAATAAACCTGAACCTATAAGCAG [936]

Pangolin TCATTGAAAAAAGAACCTGCTTTCAGAACTAGAGCTGAACCTATAACCAG [951]

Horse TCATTGGAGACAGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [951]

Rhino TCATTGGAGAAAGAATCTGCTTTCAGAACGAAAGCTGAACCTATAAGCAG [951]

Llama TCATTGGAAAAAGAATCTGCTTTCAAAACTAAGGCTGAACCTATAAGCAG [951]

Cow TCATTGGAAAAAGAATCTGTTTTCAGAACTGAGGCTGAACCTATAAGCAT [945]

Pig TCGTTGGGAAAAGAACCTGCTTTCAGAGCTAGGGCTGAACCTATAAGCAG [951]

Hippo TCTTTGGAAAAAGAATCTGCTTTCAGAACTAAGGCTGAACCTATAAGCAT [924]

Sperm\_Whale TCATTGGAAAAAGAATCTGCTTTCAGAACTAAGGCTGAACCTATAAGCAG [951]

Humpback\_Whale TCATTGGAAAAACAATCTGCTTTCAGAACTAAGCCTGAACCTATAAGCAG [951]

Cat TCATTGGAAAAAGAATCTGCTTTTAGAACCAAAGCTGAACCAATAAGCAG [945]

Dog TCATTGGAAAAAGAATCTGCTTTTAGAACCAAAACTGAACCAATGAGCAG [951]

Dugong TCACTGACAAAGGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [939]

Manatee TCACTGACAAAGGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [939]

African\_Elephant TCATTGGCAAAAGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [933]

Asian\_Elepphant TCATTGGCAAAAGAATCTGCTTTCAGAACTAAAGCTGAACCTATAAGCAG [933]

Rock\_Hyrax TCACTGAAAAAAGAATCTGTGTTCAAAACTAAAGCTGAACCTATAAGCAA [921]

Tree\_Hyrax TCACTGAAAAAAGAATCTGTGTTCAAAACTAAAGCTGAACCTATAAGCAA [939]

Madagascar\_Hedgehog TCATCGGCCAAAGAATCTGCCTTTCGAACTGTAGCTGAGCCTTTGAGCAG [927]

Tenrec ACATCGGCCAAAGAATCTGCCTTTCGAACTGTAGCTGAACCTTTGAGCAG [945]

Golden\_Mole TCATTGGCAAAAGAGTCCGCTTTCACAACTAAAGCGGAACCTATAAGCAG [939]

Long\_Eared\_Elephant\_Shrew TCACTGGTAAGAGAATCTGATTTCAGAAATAAAGCTGAACCTATAAGCAG [939]

Giant\_Elephant\_Shrew TCATTGACAAAAGCTTCTGCTTTCAGAACTAAGGATGAACCTATAAGCAG [921]

Aardvark TCATTGGCAACAGAATCTGTTTTCAGAACTAAAGCTGAACCTATAAGCAG [936]

Wombat TCTGCGGAGAAAGAATCCACTTTCAGAACTGGAACAGAGCCTGTAGCTGG [975]

[ 1060 1070 1080 1090 1100]

[ . . . . .]

Nine\_Banded\_Armadillo CAGTATAAGCAATATGGAACTAGAATTAAATATTTTAAATTCAAAAGCAT [1001]

Hairy\_Armadillo CAGTATAAGCAATATGGAACTAGAATTAAATATCTATAATTCAAAAGCAT [1001]

Anteater TAGTATAAGCAATATGAAACTAGAATTAAATACCTGCAATTCAAAAGCAT [1001]

Sloth CAGTATAAGCAATATGGAACTAGAATTAAATATCTTCAATTCAAAAGTAT [1004]

Flying\_Squirrel TAGTATAAGCAACATGGAACTAGAATTAAATATCCACAATTCAAAAGCAC [1061]

Mouse CAGTGTAAGTGATTTGGAGGTAGAATTAAACGTCCACAGTTCAAAAGCAC [989]

Rat CAGTATAAGTGATTTGGAGGTAGAATTAAATGTTCACAGTTCAAAAGCAC [989]

Old\_World\_Porcupine CAGCATAAACAACAGGGAACTAGAATTAAACACCCCTCTTGCAAAAGAAC [986]

Jackrabbit CAGTATAAGCAATATGGAACTAGAATTAAATGTCCATAATTCAAAAAAAC [995]

Flying\_Fox CAGCATAAGCAATATGGAACTAGAATTAAATATCCACAGTTCAAAAGCAG [977]

Dog\_Faced\_Fruit\_Bat CAACATAAGCAATGTGGAACTAGAATTAAATATTCACGGTTCAAAAGCAC [980]

False\_Vampire\_Bat CAGTATAAGTAATATGGAACTAGAATTAAATATCCACAGTTTAAAAGCAC [974]

Leaf\_Nosed\_Bat CAGTATAAGCCATATGGAACTAGAATTAAATATCCATAGTTCAAAAGCAC [1001]

Free\_Tailed\_Bat CAGCATAAGCAATATGGAACTAGAGTTAAATATCCACAGTTCAAAAGCAC [977]

Little\_Brown\_Bat CAGCATAAGCAATATGGAACTAGAATTAAATGTCCACAGTTCAAAAGCAC [986]

Tomb\_Bat CAGCATAAGCAACATGGAACTAGAGTTAAATATCAACAGTTCAAAAGCAC [986]

Round\_Eared\_Bat CAGCATAAGCACCGTGGGACTAGAATTGAATGTCCACGGTTCAAAAGCGC [986]

Human CAGTATAAGCAATATGGAACTCGAATTAAATATCCACAATTCAAAAGCAC [998]

Galago CAGTATAAGTAATATGAAATTAGAATTAAATATTCACAATTCAAAAGCAA [1001]

Chimpanzee CAGTATAAGCAATATGGAACTCGAATTAAATATCCACAATTCAAAAGCAC [998]

Gorilla CAGTATAAGCAATATGGAACTCGAATTAAATATCCACAATTCAAAAGCGC [998]

Orangutan CAGTATAAGCAATATGGAACTCGAATTAAATATCCATAATTCAAAAGCAC [998]

Howler\_Monkey TAGTATAAGCAATATGGAATTAGAATTGAATGTCCACAATTCCAAAGCAT [998]

Rhesus CAGTATAAACAATATGGAACTAGAATTAAATATCCACAATTCAAAAGCAC [995]

Tree\_Shrew CAGTGTAAGCAATATGGAACTAGAAATAAATAACCACAGTTCAGAAGCAC [989]

Flying\_Lemur CAGTATAAGCAATATGGAAATAGAATTAAATATCCACAATTCAAAACCAT [1001]

Mole CAGTATAAGCAATATGGAACTAGAATTAAATATCCACTCTTCAAAAGCAC [998]

Hedgehog CAGTATAAGCAATATGGAACTAGAATTAAATGTCCACAGTTCAAAAGCAC [986]

Pangolin CAATATAAGCAATATGGAGCTAGAATTAAATATCCATAGTTCAAAAGTAC [1001]

Horse CAGCATAGGCAATCTGGAACTGGAATTAAATATCCACAGTTCAAAAGCAC [1001]

Rhino CAGCATAAGCAATCTGGAACTGGAATTAAATATCCACAGTTCAAAAGCAC [1001]

Llama CAGTATAAGCAATATGGAACTAGAATTGAATACCCATAGTTCAAAAGCAC [1001]

Cow CAGTATAAGCAATATGGAACTAGAATTGAATATCCACCGTTCAAAAGCAC [995]

Pig CAGTATAAGCAATATGGAACTAGAATTGAATATCCATGGTTCGAAAGCAC [1001]

Hippo CAGTATAAGCAATATGGAACTAGAATTGAATATCCACAGTTCAAAAGCAC [974]

Sperm\_Whale CAGTATAAGCAATATGGAACTAGAATTGAATATCCATAGTTCAAAAGCAC [1001]

Humpback\_Whale CAGTATAGGCAATATGGAACTAGAATTGAATATCCATAGTTCAAAAGCAC [1001]

Cat CAATATAAGTAATATGGAATCAGAATTAAATAGCCACAGTTCAAGGGCAC [995]

Dog CAGGATAAGCAATATGGAACTGGAATTAAATAGCTCCAGTTCAAAAGCAC [1001]

Dugong CAGTATAAGCAATATGGAACTAGAATTAAATATGCATAATTCAAAAGCAC [989]

Manatee CAGTATAAGCAATATGGAACTAGAATTAAATATGCATAATTCAAAAGCAC [989]

African\_Elephant CAGTATAAGCAATATGGAACTAGAATTAAATATGCATAATTCAAAAGCAC [983]

Asian\_Elepphant CAGTATAAGCAATATGGAGGTAGAATTAAATATGCATAATTCAAAAGCCC [983]

Rock\_Hyrax CAGTATAAGCAATATGGAACTAGAATTAAATACACATAATTCAAAATCAC [971]

Tree\_Hyrax CAGTATAAGCAATATGGAACTAGAATTAAATACACATAATTCAAAATCAC [989]

Madagascar\_Hedgehog TAGGAAAAGCGGTATGGAACTGGAACCGACTGTGTTCAATGCAAAAGCAC [977]

Tenrec CCGGAAAAGCAGTATGGAACTGGAGTTGCCTGTGTTCAGTTCAAGAGCGC [995]

Golden\_Mole TAGTATAAGCAATATGGAACTAGAATTAAATATGTACAATTCTAAAGCAC [989]

Long\_Eared\_Elephant\_Shrew CAGTATAAGCAAAATGGAGCTAGATTTAAATACACACAGTTCGGTAGCAC [989]

Giant\_Elephant\_Shrew CAGTGTGAGCAGTATGGAACTAGAATTAAATATGTACAGTTCGATAGCAC [971]

Aardvark CAGTATAAGCAATTTGGAACTAGAATTAAATACACACAATTCAAAGGCAT [986]

Wombat CAGCACAAACCATGGGGAGCTTGAATTAAATAGTAGAAATGCCAAAATGA [1025]

[ 1110 1120 1130 1140 1150]

[ . . . . .]

Nine\_Banded\_Armadillo CTAAGAAGAATAGGCCGAAGAGGATGTCCTCTACCAGGCATATTCATGCA [1051]

Hairy\_Armadillo CTAAGAAGAATAGGCTGAGGAGGATGTCCTCTACCAGGCATATTCATGCA [1051]

Anteater CTAAGAAGAATAGGCTGAGGAGAATGTCCTCTACCAGGCATATGCATGCA [1051]

Sloth CTAAGAAGAATAGGCTGAAGAGGATGTCCTCTACCAGGCATATTCATGCA [1054]

Flying\_Squirrel CTAAGAAAAATAGGCTGAGGAGGAAGTCTTCTACTAGGTACATTCATGTG [1111]

Mouse CTAAGAAAAATAGGCTGAGGAGGAAGTCTTCTATCAGGTGTGCTCTTCCA [1039]

Rat CTAAGAAAAATAGGCTGAGGAGGAAG---TCTACCAGGTGTGTTCTTCCA [1036]

Old\_World\_Porcupine CTAAGGAAGACAGGCTGAGGGGGACGTCCTCAAGCAGACACAGACCT--- [1033]

Jackrabbit CCAAGAAGAATAGGCTGAGGAGGAAGTCCTCTACCAGGCGTGTTCATGCA [1045]

Flying\_Fox TTAAGAAGAATAGGCTGAGGAGGAAGTCCTCTACCAGGCATATTCATGCA [1027]

Dog\_Faced\_Fruit\_Bat TCAAGAAGAATAG?CTGAGGAGGAAGTCCT?TACCAGGCATATTCATGCA [1030]

False\_Vampire\_Bat CTAAGAAGAATAGGCTGAGGAGGAAGTCCTCTACAAGGCATATTCATGCA [1024]

Leaf\_Nosed\_Bat CTAAGAAAAATAGGCTGAGGAGGAAGTCCTCTACCAGGCCTATTCATGCA [1051]

Free\_Tailed\_Bat CTAAGAAGAATAGGCTGAAGAGGAAGTCCTCTACCAGGCACATTTATGCA [1027]

Little\_Brown\_Bat CTAAGAAGAATAGGCTGAAGAGGAAGTCCTCTACCAGGCCTATTCATGCA [1036]

Tomb\_Bat CTAAGAAGAATAGACTGAGGAGGAAGTCCTCTACCAGGCATATTTATGCA [1036]

Round\_Eared\_Bat CCAGGAAGACTAAGCGGAGGGAGAAGACTGCTGCCGAGCATACTTATGCA [1036]

Human CTAAAAAGAATAGGCTGAGGAGGAAGTCTTCTACCAGGCATATTCATGCG [1048]

Galago GTAAAAAGAAAAGGCTGAGGAAGAAGTCTTCTAGCAGGCATATTCGTGCA [1051]

Chimpanzee CTAAAAAGAATAGGCTGAGGAGGAAGTCTTCTACCAGGCATATTCATGCG [1048]

Gorilla CTAAAAAGAATAGGCTGAGGAGGAAGTCTTCTACCAGGCATATTCATGCG [1048]

Orangutan CTAAAAAGAATAGGCTGAGGAGGAAGTCTTCTACCAGGCATATTCATGCG [1048]

Howler\_Monkey CTAAAAAGAATAGGCTGAGAAGGAAGTCTTCTACCAGGCATATTCATGAG [1048]

Rhesus CTAAAAAAAATAGGCTGAGGAGGAAGTCTTCTACCAGGCATATTCATGCG [1045]

Tree\_Shrew CTAAGAAGAATAGGCTGAGGAGAAAGTTTTCTGCTAGGCATATTCGCACA [1039]

Flying\_Lemur CTAAGAAGAATAGGCTGAGGAAGATGTCCTCTACTAGGCATATTCATGCA [1051]

Mole CTAAGAAGAACAGGCTGAGGAGGAAGTCTTCTACCAAGCATATTCATGCA [1048]

Hedgehog CTAAGAAGAATAAACTCAGGAGAAAGTCATCTGCCAGGCATATTCATGCA [1036]

Pangolin TTAAGAAGAATAGGCTGAGGAGGAAGTCTTCTACCAGGCACATTCATGCA [1051]

Horse CTAAGAAGAATAGGCTGAGGAGGAAGTCTTGTACCAAGCAGATTCATGCA [1051]

Rhino CTAAGAAGAATAGGCTGAGGAGGAAATCCTCTACCAGGCATATTCATGCA [1051]

Llama CTAAG---AATAGGCCGAGGAGGAAGTCCTCTACCAGGCAGATTCATGCA [1048]

Cow CTAAG---AATAGGCTGAAGAGAAAGTCCTCTACCAGGAAAATTCCTGAA [1042]

Pig CAAAG---AACAGGCTGAGGAGGAAGTCCTCTACCAGGCAGATCCATGCA [1048]

Hippo CTAAG---AGTACGCTGAGAAGGAAGTCCTCTACCAGGCAGATTCATGCA [1021]

Sperm\_Whale CTAAA---AATAGGCTGGGG?GGATGTCCTCTTCCAGGAAGATTCATGCA [1048]

Humpback\_Whale CTAAA---AATAGGCTGAGGAGGAAGTCCTCTACCAGGAAGATTCATGCA [1048]

Cat CTAAGGAGAACAGGCTGAGGAGGAAGTCCTCTACCAGGCACATGCGTGCG [1045]

Dog CTAAGAAGAACAGGCTGAGGAGGAAGTCCTCTGCCAGGCACACTTGTGCC [1051]

Dugong CGAAGAAGAACAGGCTGAGGAGGAAGTCCTCTACCAGGCATATTCATGCA [1039]

Manatee TGAAGAAGAATCGGCTGAGGAGGAAGTCCTCTACCAGGCATATTCATGCA [1039]

African\_Elephant CAAAGAAGAATAGGCTGAGGAGGAAGTCGTCAACCAGACATATTCATGCA [1033]

Asian\_Elepphant CAAAGAAGAATAGGCTGAGGAGGAAGTCGTCAACCAGGCATATTCATGCA [1033]

Rock\_Hyrax TGAAGAAGAACAGGCTGAGGAAGAAGTCCTCCTCCAGACATGTTCATGCC [1021]

Tree\_Hyrax TGAAGAAGAACAGACTGAGGAAGAAGTCCTCCTCCAGACATGTTCATGCC [1039]

Madagascar\_Hedgehog A?---AAGAACAGGCTGAGGAGGAAGCCCTCTGCCAGGCACATCCACCCC [1024]

Tenrec AG---AAGAACAGGCTGAGGAGGAAGCCCTCTGCCAGGCACATCCATCCG [1042]

Golden\_Mole TGAGGAAGAATAGGTTGAGGAGGAAGTCCTCTTCCAGGCATATTCACACA [1039]

Long\_Eared\_Elephant\_Shrew CAAAGGAGAACAGGCTGAGGAGGATGTCCTCAACCGGGCATGTTCACGCA [1039]

Giant\_Elephant\_Shrew CAAAGAAGAACAGGCTGAGAAGGAAGTCCTCTACTAAGCGTATTTGTGCA [1021]

Aardvark CCAAGAAGAATAAGCTGAGGAGGAAATCCTCTACCAGGCATATTCATGCA [1036]

Wombat CAAGAAAAGACAGGCTGAGGAAGAAGCCTTCAGCCAGGATCGTCCGTGCT [1075]

[ 1160 1170 1180 1190 1200]

[ . . . . .]

Nine\_Banded\_Armadillo CTTGAACTAGTCGGCAGTAGAAATCCAAGCCCACCTAATCATACTGAACT [1101]

Hairy\_Armadillo CTTGAACTAGTAGGCAATAGAAATCCAAGCCCACCTAAACATACTGAACT [1101]

Anteater CTTGAACTAGTAGCCAATAGAAAGCCAAGCCAGCCTAATCACACTGAACT [1101]

Sloth CTTGAACTAGTAGCCAATAGAAATCCAAGCCAACCTAATCATAATGAACT [1104]

Flying\_Squirrel CTTGAACCAGTAGTTAATAGAAATACAAGTCCACCTCATCACACTGAATT [1161]

Mouse CTTGAACCA---ATCAGTAGAAATCCAAGCCCACCTACTTGTGCTGAGCT [1086]

Rat CTCGAACCA---ATCAGTAGAAATCCGAGCCCACCTACTTGTGCTGAACT [1083]

Old\_World\_Porcupine ---------------------AATCCACACCTGCTGGATCACACAGAGCT [1062]

Jackrabbit CTTGAACTAGTAGTCAATAAGAAACCGAGCCCACCTAATCATGCTGAACT [1095]

Flying\_Fox CTTGAACTAGTAGTCAATAGAAATCCAAGCCCACCTAATCATACTGAACT [1077]

Dog\_Faced\_Fruit\_Bat CTTGAACTAGTAGTCAATAGAAATTCAAGCCCACCTAATCATACTGAACT [1080]

False\_Vampire\_Bat CTTGAACTA---GTCAGTAGAAATCCAAGCCCACCTAATCATACTGAACT [1071]

Leaf\_Nosed\_Bat CTTGAACTAGTAGTCAGTGGAAATCCACGCCCACCTAGTCAGACTGAGCT [1101]

Free\_Tailed\_Bat CTTGAACTAGTAGTCAATAGAAATCCAAGCCCACCTAATCACACTGAACT [1077]

Little\_Brown\_Bat CTTGAACTAGTAGTCAATAGAAATCCGAGCCCATCTAACCATACTGAACT [1086]

Tomb\_Bat CTTGAACTGGTAGTCAATAGAAATCCAAGCCCACCTAATCATATTGAACT [1086]

Round\_Eared\_Bat CCTGGACTCGGGGTCAGCAAGAGCCCGAGCCCCCCTGCTCACGCCGGACT [1086]

Human CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATTGTACTGAATT [1098]

Galago CTTGAACTAGTAGTCAATAAAAATCCAAGCCCTCCTAATCATACCAACCT [1101]

Chimpanzee CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATTGTACTGAATT [1098]

Gorilla CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATTGTACTGAATT [1098]

Orangutan CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATTGTACTGAATT [1098]

Howler\_Monkey CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATTATACTGAAGT [1098]

Rhesus CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAACTGTACTGAACT [1095]

Tree\_Shrew CTTGAACTAGTAGACAATAAAAGTCCAAGCCCACCTAATCGTACTGAACT [1089]

Flying\_Lemur CTTGAACTAGTAGTCAATAGAAATCCAAGCCCACCTAATTATACTGAACT [1101]

Mole CTTGAACTGGTGGTCAAAAGAAATCCAAGCCCACCTAATCATACAGAACT [1098]

Hedgehog CTTGAAGTAGTAGTCAATAAAAACTCAAGCCCACCTAGCCATACAGAACT [1086]

Pangolin CTTGAACTAGTAGTCAATAGAAATCCAAGCCCCCCTAAACATACTGAACT [1101]

Horse CTTGAACTAGTAGTCAGTAAAAATCCAAGCCCACCTAATCATACTGAACT [1101]

Rhino CTTGAACTAGTAGTCAGTAGAAATCTAAGCCCACCTAATCATACTGAACT [1101]

Llama CTTGAACTAATAGTCAGTAGAAACCCAAGCCCACCTAATCACACTGAACT [1098]

Cow CTTGAACTAGTAGTCAGTAGAAACCCAAGTCTACCTAATCATACTGAGCT [1092]

Pig CTTGAACTAGTAGTCAATAGAAACCCAAGCCCACCTAGTCATACTGAGTT [1098]

Hippo CTTGAACTAGTAGTCAGTAGAAACCCGAGCCCACCTAATCGTACTGAACT [1071]

Sperm\_Whale CTTGAACTAGTAGTCAGTAGAAACCCAAGCCCACCTAATCATACTGAACT [1098]

Humpback\_Whale CTTGAACTAGTAGTCAGTAGAAACCCAAGCCCACCTAATCATACTGAACT [1098]

Cat CTGGAATTAGTAGTCAATAGAAATCCAAGCCCACCTGATCATACCGAACT [1095]

Dog CTTGAATTCGTAGTCAATAGAAATCTAAACCCACCTGATCATAGTGAACT [1101]

Dugong CTTGAACTAGTAGTCAATAGAAATCCAAGTCCACCTACTCATACTGAACT [1089]

Manatee CTTGAACTAGTAGTCAATAGAAATCCAAGTCCACCTACTCATACTGAACT [1089]

African\_Elephant CTTGAACTAGTAGTCAATAGAAATCCAAGTCCACCTACTCATACTGAACT [1083]

Asian\_Elepphant CTTGAACTAGTAGTCAATAGAAATCTAAGTCCACCTACTCATACTGAACT [1083]

Rock\_Hyrax CTTGAACTGGTAGTCAATAGAAATCCAAGTTCACCACCTCATACTGGGCT [1071]

Tree\_Hyrax CTTGAACTGGTAGTCAATAGAAATCCAAGTTCACCACCTCATACTGGGCT [1089]

Madagascar\_Hedgehog CTGGAACTA---GTCAACAGACAGCCAAGCCCGACGAGGCACACAGAACT [1071]

Tenrec CTGGAACTA---GTCAACAGACAACCAAGCCCGACTACGCACACGGAGCT [1089]

Golden\_Mole CTTGACTTGGTAGTCAATAGAAATCCAAGTCCACCTCCTTACACTGAACT [1089]

Long\_Eared\_Elephant\_Shrew CTTGAACTAGTAGTCAATATAAGTCCAAGGTCACCTATCCATACTGAAGT [1089]

Giant\_Elephant\_Shrew CTTGAACTAGTAGTCGATAGAAATCCAACTTCACCTACCCATGCTGAGCT [1071]

Aardvark CTTGAACTAGTAGTCAATAGGAATCCAAGTCCCCCTAGTCATACTGAGTT [1086]

Wombat CTTGAGCTCGTAGTTGATAGAAACCCAAGCTCTTCTAATGAGAGTGAACT [1125]

[ 1210 1220 1230 1240 1250]

[ . . . . .]

Nine\_Banded\_Armadillo ACAAATTGATAGTTGTTCTAGCATTGAAGAGATA---GAGAAAATAAATT [1148]

Hairy\_Armadillo ACAAATTGATAGTTGTTCTAGCACTGAAGAGATA---GAGAAAATAAATT [1148]

Anteater ACAAATTGATAGTTGTTCTAGCAGTGAAGAAATA---AAGAAAAAAAAAT [1148]

Sloth ACAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAGAAAATT [1151]

Flying\_Squirrel GCAAATTGATAGTTGTACTAGTAGTGAAGAAATA---AAGACAAGAAATT [1208]

Mouse TCAAATCGATAGTTGTGGTAGCAGTGAAGAAACA---AAGAAAAACCATT [1133]

Rat TCAGATCGAGAGTTGTGGTAGCAGTGAAGAAACA---AAGAAAAACAATT [1130]

Old\_World\_Porcupine GCAAAGTGGCAATTCTATCAGCAGTGAAGAAATA---AAGGAAAAAAGCT [1109]

Jackrabbit ACAAATTGACAGTTGTACTAGCAGTGAAGAAATG------------AATT [1133]

Flying\_Fox ACAAATTGATAGTTGTTCTAGCAGTGAAGAGCTG---AAGGAAAAAAATT [1124]

Dog\_Faced\_Fruit\_Bat ACAAATTGATAGTTGTTCCAGCAGTGAAGAACTG---AAGGAAAAAAATT [1127]

False\_Vampire\_Bat ACAGATTGATAGTTGTTCTAGCAATGAAGAGGTG---GAGAAGAAAAACT [1118]

Leaf\_Nosed\_Bat ACAAATTGATAGTTGTTCTAGCAGTGAAGAGGTG---AAGAAAAAAATTT [1148]

Free\_Tailed\_Bat ACAAATTGATAGCTGTTCTAGCAGTGAAGAGGTG---AAGGAAAAAAATT [1124]

Little\_Brown\_Bat ACAAATTGATAGTTGTTCTAGCAGTGAAGAGGTG---AAGGAAAAAAATT [1133]

Tomb\_Bat ACAAATTGATAGTTGTTCTAGCAGTGAAGAGGTG---AAGAAAAGAAATT [1133]

Round\_Eared\_Bat GCGGACGGACGGTTGTTCTGGCGGCGAGGAGGCA---AAGATCGGGAATT [1133]

Human GCAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAAGT [1145]

Galago ACAAATTGACAGTTGTTCTAGCAGTGAAGAAATA---AAGGATAAAAGTT [1148]

Chimpanzee GCAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAAGT [1145]

Gorilla GCAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAAGT [1145]

Orangutan GCAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAAAT [1145]

Howler\_Monkey ACAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAATT [1145]

Rhesus ACAAATTGATAGTTGTTCTAGCAGTGAAGAGATA---AAGAAAAAAAATT [1142]

Tree\_Shrew ACAAATTGACAGTTATTCTAGCGGTGAAGAGAGA---AAGAAAAAGGGT- [1135]

Flying\_Lemur ACAAATTGATAGTTGTTCTAGCAGTGAAGAAATA---GAGAAAAAAAATT [1148]

Mole ACAAATTGATAGCTGTTCTAGCAGTGAAGAGATG---AAGGAAAGAAATT [1145]

Hedgehog ACAAATTGATAGCTGTTCTAGCAATGAAGAGATG---AGGGGGGTGAAAG [1133]

Pangolin ACAAATTGATAGTTGTTCTAGCAGTGAAGAGTTG---ATGAAA------- [1141]

Horse ACAAATCGATAGTTGTTCTAGTAGTGAAGAGATG---AAGAAAAAAAATT [1148]

Rhino ACAGGTTGATAGTTGTTCTAGCAGTGAGGAGATG---AAGAAGAAAAGTC [1148]

Llama ACAGATTGAGAGTTGTTCCAGCAGTGAAGAGATG---AAGGAAAAACATT [1145]

Cow ACCAATTGATAGCAGTTCTAGCAATGAAGAGATG---AAGAAAAAACATT [1139]

Pig ACAAATTGATAGTTGTTCTAGCAGTGAAGAGATG---AAGAAGAGAAATT [1145]

Hippo ACAAATCGATAGTTGTTCTAGCAGTGAAGAGATG---AAGAAAAAACATT [1118]

Sperm\_Whale ACAAATTGATAGTTGTTCTAGCACTGAAGAGATG---AAGAAAAAACATT [1145]

Humpback\_Whale ACAAATTGATAGTTGTTCTAGCAGTGAAGAGATG---AAGAAAAAACATT [1145]

Cat ACAGATTGATAGTTGTTCTAGCAGTGAAGAGATGGTGAAAAGAAAAAGTT [1145]

Dog ACAGATTGAAAGTTGTTCTAGCAGTGAAGAGATG---AAGAAACAGCATC [1148]

Dugong ACAAATTGATAGTTGGTCTAGCAGTGAAGAGATA---AAGAAA---AGTT [1133]

Manatee ACAAATTGATAGTTGGTCTAGCAGTGACGAGATA---AAGAAA---AGTT [1133]

African\_Elephant ACAAATTGACAGTTGGTCTAGCAGTGAAGAGACA---AAGAAAAAAAGTT [1130]

Asian\_Elepphant ACAAATTGACAGTTGGTCTAGCAGTGAAGAGACA---AAGAAAAAAAGTT [1130]

Rock\_Hyrax ACAAATTGATAGCTGGTCTGGCAGTGAAGAAATG---AAGAAAACAAGTT [1118]

Tree\_Hyrax ACAAATTGATAGTTGGTCTGGCAGTGAAGAAATG---AAGAAAACAAGTT [1136]

Madagascar\_Hedgehog GCAAATCAGTAGCTGGCCTAGCAGTGAAGAGCTA---AAGAAAGAAGAAT [1118]

Tenrec GCAAATCAGCAGTTGGCCTAGCAGTGAGGAGCTA---AAGAAAGAAGAAT [1136]

Golden\_Mole ACAGATTGATAGTTGGCCTAGCAGTGAAGAAATA---AACGAAACAAGTT [1136]

Long\_Eared\_Elephant\_Shrew ACAGATTGATGGTTGGTCTAGCAGTGAAGAGAAA---ACGAAAAAACATT [1136]

Giant\_Elephant\_Shrew AGAGATTGATAGTTGGCCTAGCAGTGAAGAGAGA---AGGGAAAAATGTT [1118]

Aardvark ACAGATTGATAGCTGGCCTAGCAGTGAAGAGTTA---AAGAAAAAAAGTT [1133]

Wombat GCAGATCGATAGCTATCCCAGCAGTGAAGAGATAAGGAAAGGAACTAATT [1175]

[ 1260 1270 1280 1290 1300]

[ . . . . .]

Nine\_Banded\_Armadillo CTAACCAAAAGCCAATCAGACACAACAGAATGCTTCAACTCACGAAAGAA [1198]

Hairy\_Armadillo CTAACCAAAAACCAATCAGACACAACAGAATGCTTCAACTCATGAAAGAA [1198]

Anteater CTGACCAAAAGCCAATAAGACACAGCAGAACAGTTCAATTCATGAAAGAT [1198]

Sloth CTGTCCAAAAGCCAATAAGGCACAGCAGAATGCTTCAACTCCTGAAAGGT [1201]

Flying\_Squirrel CCAACCAAATGTCAGTCAGGCATGGCAAAAAGCTTCAGTTCATGGAAGAT [1258]

Mouse CCAACCAACAGCCAGCCGGGCACCTTAGAGAGCCTCAACTCATCGAAGAC [1183]

Rat CCAACCAAACCCCAGCCGGGCACATTAGAGAGCCTCAACTCATCGAAGAC [1180]

Old\_World\_Porcupine CCCCCCAAATGCCCATCAGGCACAGCAGGACGCTGCACCTCACAGGGGCT [1159]

Jackrabbit TTGACCAAATACCAGTCAGTCACAGCAGACAGGCTCAAGTCATAGAAGAT [1183]

Flying\_Fox CTGACCAAATGCCAGTCAGACACAGCAAAAAACTTCAATTCATAGAAGAT [1174]

Dog\_Faced\_Fruit\_Bat CTGACCGAATGCCAGACAGACACAGCAAAAAACTTCAGTTCGTAGAAGAT [1177]

False\_Vampire\_Bat CTGACCAAATGCCAGCCAGACACAACAAAAATCTTCAACTTATAGAAGAT [1168]

Leaf\_Nosed\_Bat CTGACCAAGTGCCAGTCACACACAGCAAAACGCTTGAACTCATAGAAGAT [1198]

Free\_Tailed\_Bat CTGACCAAATACCAGTCAGACACAGCAAAAAGCTTCAACTCATGGAAGGT [1174]

Little\_Brown\_Bat CTGACCAAATACCAGTCAGACACAGCAAGAAGCTTCAACTCATGGAAGGT [1183]

Tomb\_Bat CTGACCAAATACCAGTCAGGCACAGCAAAGAGCCTCAACTCGTGGAAGGT [1183]

Round\_Eared\_Bat CTGGGCAGAGGCCAGCCAGGCGGAGCAGCAAGCTTCCGCTCGAGGAGGGT [1183]

Human ACAACCAAATGCCAGTCAGGCACAGCAGAAACCTACAACTCATGGAAGGT [1195]

Galago CTGACCAAATACCAGTCAGGCATAGCAGAAAGCCTGGACTCATGGAAGAT [1198]

Chimpanzee ACAACCAAATGCCAGTCAGGCACAGCAGAAACCTACAACTCATGGAAGAT [1195]

Gorilla ACAACCAAATGCCAGTCAGGCACAGCAGAAACCTACAGCTCATGGAAGAT [1195]

Orangutan ACAACCAAATGCCAGTCAGGCACAGCAGAAACCTACAACTCATGGAAGAT [1195]

Howler\_Monkey ACAACCAAATGCCAGTCAGGCACAGCAGAAAGCTACAACTCATGGAAGAT [1195]

Rhesus ACAACCAAATGCCAGTCAGGCACAGCAGAAACCTACAACTCATGGAAGAT [1192]

Tree\_Shrew --GAGCAAATGCCAGTTGGACACAGCAGAAAGTTTCAACTTGAGGAAGAG [1183]

Flying\_Lemur CCAGCCAAATGCCAGTCAGGCACAGCAGAAAGCTTCAACTCATGGAAAAT [1198]

Mole CCAACCAAATGCCAGTAAGACACAGCAAAAGGCTTCAACTCATGGAAGAT [1195]

Hedgehog CTGATCAAATGCCAGTCAGGCACAGCAAACAACTTCCACTCATTGAAGAC [1183]

Pangolin --AACCAAATACCAGTCAAACAT?CCAAAAAGCTTCAACTCAAGGAAGAT [1189]

Horse CTGACCAAATGCCGGTCAGACACAGCAAAAAGCTTCAACTCATGGAAGAT [1198]

Rhino CCAGCCAGGTGCCAGTCAGACATAGCAGAAAGCTTCAACTCACMGAAGAT [1198]

Llama CTGACCAAATGCCAGTCAGGCACCGCAAAAAGCTTCAGCTCACGGGAGAT [1195]

Cow CTAGCCAAATGCCAGTCAGGCAGAGCCAAAAGCTTCAACTCATTGGAGAT [1189]

Pig CCGACCAAGTGCCAGTCAGGCACAGCAAAAAGCTTCACCTCAGGGGAGAT [1195]

Hippo CCTGCCAAATGCCAGTCAGGCACAGCAAAAAGCTTCAATTCATGGGATAT [1168]

Sperm\_Whale CCAGCCAAATGCCAGTCAGGTGCGGCAAAAAGCTTCAATTCATTGGAGAT [1195]

Humpback\_Whale CCAGCCAAATGCCAGTCAGGCACGGCAAAAAGCTTCAATTCATGGGAGAT [1195]

Cat CGGAACAAATGCTAGTCAGACACAGCAAAACACTTCAACTCGTGGAAAAT [1195]

Dog TGGACCAAGTACCAGTCAGACACAACAAAACACTTCAGCTCATGCAAGAT [1198]

Dugong CTGAGCAAAAGCCAGTCAGACACAACAGAAACCTTCAACTCATGAAAAAC [1183]

Manatee CTGAGCAAAAGCCAGTCAGACACAACAGAAACCTTCAACTCATGAAAAAC [1183]

African\_Elephant CTGAGCAAAAGCCAATCAGACACAACAGAAACCTTCAACTCATGAAAAAT [1180]

Asian\_Elepphant CTGAGCAAAAGCCAATCAGACACAACAGAAACCTTCAACTCATGAAAAAT [1180]

Rock\_Hyrax CTGAGCAAAAGCCAGTCAGACACAACATAAACCTCCAACTCATGAAAAAC [1168]

Tree\_Hyrax CTGAGCAAAAGCCAGTCAGACACAACATAAACCTCCAACTCATGAAAAAC [1186]

Madagascar\_Hedgehog CTGAGCCAAAGCCAGTCAGACGGAGCCGGAACTTACAGCTCACGAAAGAC [1168]

Tenrec CCGAGCCAAAGCCAATCAGACGGAGCCGGCACTTA------------AAG [1174]

Golden\_Mole CTGAACAAAAGCCAACCAGACACAGCAGAAACCTTCACCTCATGAAAGAA [1186]

Long\_Eared\_Elephant\_Shrew CCGAGCATAAGCCAGTCAGACCTAGCAGAAACGTTTCAGTTACAACAAAT [1186]

Giant\_Elephant\_Shrew CAGAGTTTAACTCCGTCAGACACAGCAGAACCTTTCAGCTTATGAAAGGT [1168]

Aardvark CTGAGCACAAGCCAATCAGACAGAATACAAACCTGCAACTCATGAAAGAT [1183]

Wombat CTGAACAGAAGCAAATCAGACGCAGCAGAAGGCTTCGGCTGCTATCA--- [1222]

[ 1310 1320 1330 1340 1350]

[ . . . . .]

Nine\_Banded\_Armadillo AAAGAAACCACAACTGGAGCCAAAAAGAACAAT---AAGCCAAATGAACA [1245]

Hairy\_Armadillo AAAGAAAACACAACTGGAGCTAAAAAGAATAAC---AAGCCAAATGAACA [1245]

Anteater AAAGAAACTGCAATTGGAGCCAAGAAGAGTAAC---AAGCGAAATGAACA [1245]

Sloth AAAGAAACTCCAACCGTAACCAAGAAGAGTAAC---AAGCGAAATGAACA [1248]

Flying\_Squirrel GCAGAACCTGCAACTGATGTCAGAAAAAGTAAC---AAGCCAAATGAACA [1305]

Mouse ACTGAACCTGCAGCGGATGCCAAGAAG---AAC---GAGCCAAATGAACA [1227]

Rat ACAGAACCCGCAGCTGATGCCAAGAAG---AAC---GAGCCAAATGAACA [1224]

Old\_World\_Porcupine GTGGAAGCTTCTATTGGAGCCAGGGAGAGTAAG---AAGCCAGCTGGACA [1206]

Jackrabbit ACAGAACCTCCAACTGGAGCTAGGAAGAACAAG------CCAAGTGAACA [1227]

Flying\_Fox AAAGAATCTTCAACTGGAGCCAAGAAGAATAAC---AAGCCAAATGAGAC [1221]

Dog\_Faced\_Fruit\_Bat AAAGAATCTGCAACTGGAGCCAAGAAGAATAAC---ATGCCAAATGAGGC [1224]

False\_Vampire\_Bat AAAGAACCTGCAACTAGAGCTAAGAAGAGTAAC---AAGCCAGATGAACA [1215]

Leaf\_Nosed\_Bat CAAGAACCTGCAAATGGAGTCAAGAAGAGGAAC---AAGCCAAATGAACA [1245]

Free\_Tailed\_Bat AAAGAACCTGCAACTGGAGCCAAGAAGAGTAAC---AAATCAAATGAACA [1221]

Little\_Brown\_Bat AAAGAACCTGCAGCTGGAGCCAAGAAGAGTAAT---AAGTCAGATGAACA [1230]

Tomb\_Bat GAAGAACCTACGACTAGAGCCAAGAAGAATAAG------TCAAATGAACA [1227]

Round\_Eared\_Bat CAGGAGCCTGCAGCTGGGGCCAGCAAGGGTGAC---CGGTCAGATGCACC [1230]

Human AAAGAACCTGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1242]

Galago AGAGAACCTGCAACTGGAGCCAAGAAAAGTAAC---AAGCCAAATGAGCA [1245]

Chimpanzee AAAGAACCTGCAACTGGAGTCAAGAAGAGTAAC---AAGCCAAATGAACA [1242]

Gorilla AAAGAACCTGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1242]

Orangutan AAAGAACCTGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1242]

Howler\_Monkey AAAGAACGTGCAGCTAGAGCCAAAAAGAGTAGC---AAGCCAAATGAACA [1242]

Rhesus AAAGAATCTGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1239]

Tree\_Shrew AAAGAACCTACAACTGGAGCCAAGAAAAATAAC---CAGCCAAATACAGA [1230]

Flying\_Lemur AAAGAACCTGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1245]

Mole AAAGACCCCGCAACTGAAGCCGTCAAGAGTAAC---AAGCCAAAAGAACA [1242]

Hedgehog AAAGAACCTGCAACTAGAGCCTTTAGTAGTAGC---AAGTCAAATGAACA [1230]

Pangolin AGAGAACCTGCATCTAGAGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1236]

Horse AAAGAACCTGCCACTGGAGCCAAAAAGAGTAAC---AAGCCAAATGAACA [1245]

Rhino AAAGAACCCGCAGCTGGAGCCAAGAAAAGTAAC---AAGCCAAATGAACA [1245]

Llama AAAGAACCTACGACTGGAACCAAGAAGAGTAAC---AAGCCACATCAACA [1242]

Cow AAAGAACTTACTGCTGGAGCC---AAGAATAAC---AAAACATATGAACA [1233]

Pig AAAGAACCTACAACTGGAGCCAAGAAGAATAAT---AGGCCACATGAACA [1242]

Hippo AAAGAACCCGCAACTGGAGTCAGGAAGAGTAAT---AAACCACACGAACA [1215]

Sperm\_Whale AAAGAACCTACAACTGGAGCCAAGAAGAGTAAC---AAGCCACATGAACA [1242]

Humpback\_Whale AAAGCACCTACAACTGGAGCCAAGAAGAGTAAC---AAGCCACACGAACA [1242]

Cat AAAGAACCTGCACCTGGAGCCAAGAAGCGTAAC---AAGCCAAGTAAACA [1242]

Dog AAAGAACCTGCAGGTAGAGCTAAGAAAAGTAGT---AAGCCAGGAGAACA [1245]

Dugong CAAGAAACCACAACTGGAGCCAAGAAAAGTAAC---AAGCCAAAGGAACA [1230]

Manatee CAAGAAACCACAACTGGAGCCAAGAAAAGTAAC---AAGCCAAAGGAACA [1230]

African\_Elephant CAAGAAACCGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAAGGAACA [1227]

Asian\_Elepphant CAAGAAACCGCAACTGGAGCCAAGAAGAGTAAC---AAGCCAAAGGAACA [1227]

Rock\_Hyrax CAAGAAACCACAACTGGAGCCAAGAAGAGTAAC---AAGCCAAAGGAACA [1215]

Tree\_Hyrax CAAGAAACCACAACTGGAGCCAAGAAGAGTAAC---AAGCCAAAGGAACA [1233]

Madagascar\_Hedgehog CAAGAAATGGCCATCGGAGCCAAGAAGAATGAC---AAACCAAATGAAGA [1215]

Tenrec CGGGAA---------AGAGCCAAGAAGAATGAC---AAGCCAAACGGAGA [1212]

Golden\_Mole CAGGAAACTGCAACTGGAACCAAGAACAGTAAC---AAGCCAAATGAACA [1233]

Long\_Eared\_Elephant\_Shrew CAAGAAACTGAAACTGGGTCCAAGAAGAATAAC---AAGCCAAATGAACA [1233]

Giant\_Elephant\_Shrew CAAGAAACTGAAATTGGAGACCAAAAGAATAATGACAAGCAAAATGAACA [1218]

Aardvark CAAGAGGCCACAACTGGGGCCAAGAAGAGTAAC---AAGCCAAATGAACA [1230]

Wombat GAAGAAATTGTGGTTGGAGCCAAGAAGGCCCAT---AAGCCAGATGACCA [1269]

[ 1360 1370 1380 1390 1400]

[ . . . . .]

Nine\_Banded\_Armadillo AATAAGTGAAAGACATGCCAGTGATGCTTTCCTAGAACTT------AAAA [1289]

Hairy\_Armadillo AATAAGTGAAAGACATGCCAGTGATGTTTTCCCAGAACTAAAATTAACAA [1295]

Anteater AATAAATAAAAGACATGCCAGTGATGCTTTCCCAGAACTAAATTTAACAA [1295]

Sloth AATAAGTAAAAGGCATTCCAGTGATGCTTTCCCAGAACTAAATTTAACAA [1298]

Flying\_Squirrel AGTAAATAAGAGACATACCAATGATGCTTTCCCAGGACTGAAGTTAACAG [1355]

Mouse CATAAGGAAGAGACGTGCCAGCGATGCTTTCCCAGAAGAGAAATTAATGA [1277]

Rat CATAAGGAAGAGAAGTGCCAGTGATGCGTTCCCAGAAGAGAAATTAATGA [1274]

Old\_World\_Porcupine AGTAAGGGAGAGACATGCCGGGGACTCTTTCCTAGAACCAAGATTAGCAA [1256]

Jackrabbit AATAAGTAAAAGACATGCCAGTGATGTTTTCCCAGAAGTCAAATTAACAA [1277]

Flying\_Fox AATCAATAAAAGACTTGCCAGTGATGCTTTTCCAGAATTAAATATAACAA [1271]

Dog\_Faced\_Fruit\_Bat AATAAATAAAAGACTTTCCAGTGAAGCTTTTCCCGAATTAAATATAACAA [1274]

False\_Vampire\_Bat AATAAATAAGAGACTTACCAGTGATGCTTTTTCAGAACTAAATTTAACAA [1265]

Leaf\_Nosed\_Bat AATAAATAAGAGACTTACCAGTAATGCTTTTCCAGAACTAAATTTAACAA [1295]

Free\_Tailed\_Bat AATAAATAAAAAACTTGCCAGTGATGTTTTTCCAGAACTAAACTTAACAA [1271]

Little\_Brown\_Bat AATAAATAAAAAACTTGCCAGTGATGCTTTTCTAGAACAAAACTTAACAA [1280]

Tomb\_Bat AATAAATAAAAGACTTGCCAGTGATACTTTTCCAGAACTAAATTTAAAAA [1277]

Round\_Eared\_Bat GATGAATAAGAGACTTGCCAATGATGCTTTTCCGGAACTAAATTTAACAA [1280]

Human GACAAGTAAAAGACATGACAGCGATACTTTCCCAGAGCTGAAGTTAACAA [1292]

Galago AATAAGTAAAAGACATGTCAGTGATACTTTCCCAGAAGTGGCATTAACAA [1295]

Chimpanzee GACAAGTAAAAGACATGACAGCGATACTTTCCCAGAGCTGAAGTTAACAA [1292]

Gorilla GACAAGTAAAAGACATGACAGCGATACTTTCCCAGAGCTGAAGTTAACAA [1292]

Orangutan GACAAGTAAAAGACATGACAGCGATACTTTCCCAGAGCTGAAGTTAACAA [1292]

Howler\_Monkey AACAAGTAAAAGACATGCCAGTGATACTTTCCCAGAACTGAGGTTAACAA [1292]

Rhesus GACAAGTAAAAGACATGCCAGTGATACTTTCCCAGAACTGAAGTTAACAA [1289]

Tree\_Shrew AATAAGTGAAAGACATGCCAGTGGTGTTATCCCAGATCTGAAGTTAACAA [1280]

Flying\_Lemur AATAAGTAGAAGACATTCCAGTAATGCTTTCCCAGAACTGCGGTTAACAA [1295]

Mole A---ATTAAAAGATTTGCCAGTGATACTTTGCCAGAACTAAATTCAACAC [1289]

Hedgehog AATAAGTAAACAGTTTGTTGGTGAGACTTTTTCAGACCTAAATTTAACAA [1280]

Pangolin AATAAATAAAAGATTTACCAGTGACACTTTTCCAGAACTAAATTTAACAA [1286]

Horse AATAAATAAAAGACTTGCCAGTGATGCTTTTCCAGAGCTAAAATTAACAA [1295]

Rhino GATAAATAAAAGACTCGCCAGTGATGCTTTTCCAGAACTAAAATTAACAA [1295]

Llama AATAAATAAAAGACTTGTCGGTAACACTTTTCCAGAACTAAATTTAACAA [1292]

Cow AATAAATAAAAGACTTGCTAGTGATGCTTTTCCAGAACTAAAGTTAACAA [1283]

Pig AGTAAATAAAAGACCTATCAGTGATGCTTTTCCAGAACTAAATTTAACAA [1292]

Hippo AATAAATAAAACACTTGCCAGTGGTGCTTTTCCAGAACTAAATGTAACAA [1265]

Sperm\_Whale AATAAATAAAAGACTTGACAGTGACACTTATCCAGAACTAAATTTAACAA [1292]

Humpback\_Whale AATAAATAAAAGACTTACCAGTGACGCTTATCCAGAACTAAATTTAACAA [1292]

Cat AATAAATAAAAGACTTGCCAGTAACACTTTTCCAGAGCTAAATTTAACAA [1292]

Dog AATAAATAAGAGACTCGCCAGCCATGCTTTTCCAGAGCTAACTTTAACAA [1295]

Dugong AATAAGTAAAAGACATGCCAGTGACGCTTACCCAGAACTAAATTTAACAA [1280]

Manatee AATAAGTAAAAGACATGCCAGTGACACTTACCCAGAACTAAATTTAACAA [1280]

African\_Elephant AATAAGTAAAAGACATGGCGCTGACTCTTACCCAGAACTACATTTAACAA [1277]

Asian\_Elepphant AATAAGTAAAAGACATGGCGCTGACTCTTACCCAGAACTACATTTAACAA [1277]

Rock\_Hyrax AATAAATAAAAGACACACTAGTAATCCTTACCCAGAACTAAATTTAACAA [1265]

Tree\_Hyrax AATAAATAAAAGACACACTAGTAATCCTTACCCAGAACTAAATTTAACAA [1283]

Madagascar\_Hedgehog AAGGGGCAAAAAACACGCCCCTGACACTTTCCCAGAACGAAATTTAACAG [1265]

Tenrec AAGGGGCAAAAAACACGCCCCTGACACATTCCCAGACCGAAAGTCAACAA [1262]

Golden\_Mole AATAAGTAAAAGACATGCCACTTACACTTTTTCAGAACTAAACATAACAA [1283]

Long\_Eared\_Elephant\_Shrew AATGAGTAAAAGACATGCCACTGACACTTCCCCAGGGCACAAC------- [1276]

Giant\_Elephant\_Shrew AATAAGTAAAAAACATGCCACTGACACTTCTCCAAAACGAAAC------- [1261]

Aardvark AATAAGTACAGGACACGCCTCTGACATTTTCCCAAAATTGAATTTAACAA [1280]

Wombat AGCAGAAGAAAGTTGTATCAGTGAAGTTTTCCCAGAACTAAAAATAGGAA [1319]

[ 1410 1420 1430 1440 1450]

[ . . . . .]

Nine\_Banded\_Armadillo ATGTAACTGATTTT---CTTCCTAAATGTTCAAGTTCTGATAAACTTCAA [1336]

Hairy\_Armadillo ATGTAACCGATTTT---CTTCCTAAATGTTCAAATCCTGATAAACTTCAA [1342]

Anteater ACGTAACTGGTTTT---CCTACTAAATGTTCAAATTCTGATAAACTTCAA [1342]

Sloth ATGTAACTGGTTTT---CTTACTAAATGTTCAAGTTCTGATAAACTTCAA [1345]

Flying\_Squirrel GCATATCTGGTATT---TTTACTAACTGCTCAAGTTCTAGTAAAGTTGAA [1402]

Mouse ACAAAGCTGGTTTA---TTAACTAGCTGTTCAAGTCCTAGAAAATCTCAA [1324]

Rat ACAAAGCTGGTTTA---TTAACTAGCTGTTCAAGTCCTAGAAAGCCTCAA [1321]

Old\_World\_Porcupine GACTACCTGCT------TTTACTAACAGTTCAAGCCCTGATAACCTTAAA [1300]

Jackrabbit ACATACCTGGTGTT---TTTACAAACTGTTCAAGTTCTAATAAACTTCAA [1324]

Flying\_Fox ACATACCTGGTTTT---TTTACTAATGGTTCAAGTTCTAATAAACTTCAA [1318]

Dog\_Faced\_Fruit\_Bat ACGTACCTGGTTTT---TTTACTAATGGTTCAAGTTCTAATAAACGTCAA [1321]

False\_Vampire\_Bat ACACACCTGGTTTT---GTTACCAACAGTTCAAATTCTGATAAACTTAAA [1312]

Leaf\_Nosed\_Bat ACATACCTGGTATA---TTG---AACCGTTCAAGTTCAAATAAACTTCAA [1339]

Free\_Tailed\_Bat ACATACCTGGTTTT---TTAAGTAATGATTCAAGTTCTAATAAACTTAAA [1318]

Little\_Brown\_Bat ACATGCCTGGTGTT---TTTACTAATGGTTTAAGCTCTAATAAGCTTAAC [1327]

Tomb\_Bat ACATACCTGGTTTT---TTTACTAATGGTTCAAGTTCTAATAAACTTCAA [1324]

Round\_Eared\_Bat GCGTATCTGCCGTT---TTTACTAATGGTTCAGGTTCTACTAAACTTAAA [1327]

Human ATGCACCTGGTTCT---TTTACTAAGTGTTCAAATACCAGTGAACTTAAA [1339]

Galago ATATATCTAGTTTT---TTTACTAACTGTTCAGGTTCTAATAGACTTAAA [1342]

Chimpanzee ATGCACCTGGTTCT---TTTACTAACTGTTCAAATACCAGTGAACTTAAA [1339]

Gorilla ATGCACCTGGTTCT---TTTACTAACTGTTCAAATACCAGTGAACTTAAA [1339]

Orangutan ATGCACCTGGTTCT---TTTACTAACTGTTCAAATACCAGTGAGCTTAAA [1339]

Howler\_Monkey ACATACCTGGTTCT---TTTACTAACTGTTCAAATACTAATGAATTTAAA [1339]

Rhesus AGGTACCTGGTTCT---TTTACTAACTGTTCAAATACTAGTGAA---AAA [1333]

Tree\_Shrew ACATACCTGGTTTT---TTCACAAACTCTTCGAGTTCTAATAAACTTCCA [1327]

Flying\_Lemur ATGTACCTGTTTTT---TTTGCTAACTGTTCAAGTTCTAATAAACTTCAA [1342]

Mole ATGTACCTGGCTTT---CTTAGCAACTATTCAAGTTCTAATAACCTTGAA [1336]

Hedgehog ACATCCCTGGTTTT---CTTACCAGCTGTTCAAGTTCCAATAAACATCAG [1327]

Pangolin ACATACCTGGTTTT---TTTAGTAAATGTTCAAGTTCTAATAAACTTCAA [1333]

Horse ACATACCTGGTTTT---TTTACTAACTGTTCAAGTTCTAATAAACTTCAT [1342]

Rhino ACGTACCTGGTTTT---TTTGCTAACTGTTCAAGTTCTAATAAACTTCAA [1342]

Llama ACACACCTGGTTTT---TTTACTAAGTGTTCAAGTTCTAATAAACTTCAA [1339]

Cow ACACACCTGGTTAT---TTTACTAACTGTTCTAGT------AAACCTGAA [1324]

Pig ATGTACCTGTTTCT---ATTACTAACTGTTCAAATTCTAATAAGCTTCAA [1339]

Hippo ACATACCTGGTTTT---TTTACTAACTGTTCTAGTTCTAGTAAACTTCAA [1312]

Sperm\_Whale ACATACCTGTTTTT---TTTACTCACTGTTCTAGTTCTAATAAACTTCAA [1339]

Humpback\_Whale ACATACCTGGTTTT---TTTACTCACTGTTCTAGTTCTAATAAACTTCAA [1339]

Cat ACATACCTGGGGTT---TTTACTAACTGTTCAAGTTCTAATACACTTCAA [1339]

Dog ATGTATCTGGTTTT---TTTGCTAACTATTCAAGTTCTAGTAAGCCTCAA [1342]

Dugong GCACAACTGGCTTA---ATTACTAACTGTTCAAGTTCTCATAATTATCAA [1327]

Manatee GCACAACTGGCTTA---ATTACTAACTGTTCAAGTTCTCATAATTATCAA [1327]

African\_Elephant CCACAGCTGGCTTT---ATTACTAAGTGTTCAAGTTCTGATAATCTTCAA [1324]

Asian\_Elepphant CCACAGCTGGCTTT---ATTACTAAGTGTTCAAGTTCTGATAATCTTCAA [1324]

Rock\_Hyrax GCACAGCTGGCTTT---ATTACTGTATGTTCAAGTTCTGATAATCTTCAA [1312]

Tree\_Hyrax GCACAGCTGGCTTT---ATTACTGCGTGTTCAAGTTCTGATAATCTTCAA [1330]

Madagascar\_Hedgehog ACACAACTGACCTA---ATTACTACCTGTTCGTTTTCTGGTAATCTTCAA [1312]

Tenrec GCACAACGGACTTA---ATTGCTAACTGTTCCGTTTCTGGCAGTCTTCAT [1309]

Golden\_Mole ATAGAACTGACTTT---ATTACTAACTGCCCACGTTCTGATAATCTTCAA [1330]

Long\_Eared\_Elephant\_Shrew --ATAACTGGCTTC---ATTACTGACTGTTCAAATACCAGCAGTCTTCAA [1321]

Giant\_Elephant\_Shrew --ATAACTGGCTTT---ATCACAAACTGTTCAAATACTGATAATCTTCAA [1306]

Aardvark ACATAACTGGTTTT---ATTACTAATTGTTCAAGTTCTGATAATCTTCAA [1327]

Wombat ACGTGCCTGCCTGT---GCTACTGACAGTCTAACTACTGATAGGGATCAA [1366]

[ 1460 1470 1480 1490 1500]

[ . . . . .]

Nine\_Banded\_Armadillo AAATTT---AATTCTAGCCTGCAAGGA---GAAGTAGCAGAGAACCTAGA [1380]

Hairy\_Armadillo GAATTTGTTAATTCTAGCCTGCAAGGG---GAAGTAGCAGAGAACCTAGA [1389]

Anteater GAATTTGTCAATTCTAGCCTGCAAGGA---GAAGCAGCAGAGAACCTAGA [1389]

Sloth GAATTTGTCAATTCTAGCCTGCAAGGA---GAAGTAGCAGAGAACCTAGA [1392]

Flying\_Squirrel GAATTTATCAATCCTAACCTTCAGAAAGAAGGAACAGAAGAGAACATAGA [1452]

Mouse GGGCCTGTCAATCCCAGCCCTCAGAGAACAGGAACA---GAGCAACTTGA [1371]

Rat GGACCTGTCAATCCTAGCCCTGAGAGAAAAGGAATA---GAGCAACTTGA [1368]

Old\_World\_Porcupine GAATTTGTCAACCTTAGTGCACAGACAGAAGAGATGGAAGAGAACCCAGA [1350]

Jackrabbit GAATCTGTCGATCCTAGCCTTCAAAGAAGGGAAATAGAAGAGAACCTAGA [1374]

Flying\_Fox GAGTTTGTCAATCCTAGCCTTCAAAGAGAAGAAATAAAAGAGAACCTAGG [1368]

Dog\_Faced\_Fruit\_Bat GAGTTTGTCAATCCTAGCCTTCAAGGAGAAGAAATAAAAGAGAATCTACG [1371]

False\_Vampire\_Bat GAGTTTGTCAATCCTAGCCTTCAAAGAGAAGAAATAGAAGAGCATCTGGG [1362]

Leaf\_Nosed\_Bat GAGTTTGTCAATCCTAGCCTTCAAAGAGAAGAAATAGAAGAGAGCCTAGG [1389]

Free\_Tailed\_Bat GAGTTTGTCAATCCTAACCTTCAAAGAGAAGAAATAACAGAGAACCTAGG [1368]

Little\_Brown\_Bat GAGTTTGTCGATCCTAACCTACAAAGAGAAGAAACAGAAGAGAACCTAGG [1377]

Tomb\_Bat GAGTTTGTTGATCCTAACCTTCGAAGAGAAGAAGTGGAAGAGAACCTAGG [1374]

Round\_Eared\_Bat GAGTGTGTCGATTCTAACCCTCAAGGAGAAGACACAGAAGAGAACCGAGG [1377]

Human GAATTTGTCAATCCTAGCCTTCCAAGAGAAGAAAAAGAAGAGAAACTAGA [1389]

Galago GAATTTGTCAATCCTAGCCTTCAAAGAAAAAAAACAGAAGAGAACTTAGA [1392]

Chimpanzee GAATTTGTCAATCCTAGCCTTCCAAGAGAAGAAGAAGAAGAGAAACTAGA [1389]

Gorilla GAATTTGTCAATCCTAGCCTTCCAAGAGAAGAAAAAGAAGAGAAACTAGA [1389]

Orangutan GAATTTGTCAATCCTAGCCTTCCAAGAGAAGAAAAAGAAGAGAAACTAGG [1389]

Howler\_Monkey GAATTTGTCAATCCTAGCCTTCCAAGAGAACAAACAGAAGAGAAACTAGA [1389]

Rhesus GAATTTGTCAATCCTAGCCTTTCAAGAGAAGAAAAAGAAGAGAAACTAGA [1383]

Tree\_Shrew GAATTTGTCCATCGTAGCCTTCAAAGAGAAAAA---GAAGAGAACCGAGA [1374]

Flying\_Lemur GAATTTATCGATCCTAGCCTTCAAAGAGAAGAAATAGAAGAGAACCTAGA [1392]

Mole GAGTTTTCCAATCCTAGCCTTCAAAGAGAAGAACTAGAAGAGAACCTAGG [1386]

Hedgehog GAATGTATTAATCCTAACCTACAAAGAGAGGTATTAGGAGAAAGCCGTGG [1377]

Pangolin GAGTTTGTTGACCCTAGCCTTCAAAGAGAAGAAATAGAA---AAT----- [1375]

Horse GAGTTTGTCAATCCTAGCCTTCAAAGAGAAGAAATAGAACAGAACCTAGG [1392]

Rhino GAGTTTGTCAATCCTAGCCTTCAAAGAGAAGACATAGAACGGAACCTAGG [1392]

Llama GAGTTTGCCAATCCTAGCCTTCAAAGAGAA---------GAGAACCCAGG [1380]

Cow GAGTTTGTTCATCCTAGCCTTCAAAGAGAG---------GAGAACCTAGG [1365]

Pig GAATCTGTCAGTCCTAACCTTCAAAGAGAA---------GAGAACCTAGG [1380]

Hippo GAGGTTGTTAATCCTGGCCTTCCAAGAGAG---------GAGAACCTAGG [1353]

Sperm\_Whale GAGTTTGTTAATCCTAGCCTTCAAAGAGAG---------GAGAACCTAGG [1380]

Humpback\_Whale GAGTTTGTTAATCCTAGCCTTCAAAGAGAG---------GAGAACCTAGG [1380]

Cat GAGTTTGTCAACCCTGGCATTCAAAGAGAAGAACTAGAAGAGAGCCGAGG [1389]

Dog GAGTGCATCAACCCTGGCCTTCGAAGAGAAGAAATAGAAGAGAGCCGAAG [1392]

Dugong GAATTT---AATCCTAGCCTTCAGGGAGAAGAAATAGAAGAAAATCTGGG [1374]

Manatee AAATTTGTTAATCCTAGCCTTCAGGGAGAAGAAATAGAAGAAAATCTGGG [1377]

African\_Elephant GAATTTGTCAATCCTAGCCTTCAAGGAGAGAAAACAGAAGAAAACCTGGA [1374]

Asian\_Elepphant GAATTTGTCAATCCTAGCCTTCAAGGAGAGAAAACAGAAGAAAACCTGGA [1374]

Rock\_Hyrax GAACCTGTCAACCCCAGCCTTCAAGGAGAGGAAATAGAAGAAAACTTGGC [1362]

Tree\_Hyrax GAACCTGTCAACCCCAGCCTTCAAGGAGAGGAAATAGAAAAAAACTTGGC [1380]

Madagascar\_Hedgehog GCATCTGTCTGTCCTAGCCTTCCAGGGGCAAACCTGAAAGAGAAACTGGG [1362]

Tenrec GGAGCTGTCTGTCCTGGCCTTCCAGGGGCAAAGCAAACAGAGAAACGGGG [1359]

Golden\_Mole GAACTTGTCAATCCTAGCCTTCAAGGAGAGGAAAGGGAAGAGAAATCGGA [1380]

Long\_Eared\_Elephant\_Shrew GAATGTTTTAATCCTAGACTTCAGGGAGAGGCAGTAGAAGACAACTTTGG [1371]

Giant\_Elephant\_Shrew GAATTTGTTAATCCTAGATTTGAAGGAGAGGAAATA------GCCGTGGG [1350]

Aardvark GAATTTGTCAATCCTAGCCTTCAAGAAGAGGAAATAAAAGAGAACCTGGG [1377]

Wombat GTGTTAGCTAGCTGCAGTTTCACAGAAGAAAGAGATGAAAGGAGCCTGGA [1416]

[ 1510 1520 1530 1540 1550]

[ . . . . .]

Nine\_Banded\_Armadillo AACA---ATTCAAGTGTCTGATAGTACCAGGGACCCTGAAGATCTGGTGG [1427]

Hairy\_Armadillo AACA---ATTCAAGTGTCTGATACTACCAGGAATCCTGAAGATCTGGTGT [1436]

Anteater AACA---ATACAAGTGTCTGATACTACCATGGACCCTGAAGGTCTGGTAT [1436]

Sloth AACA---ATTCAAGTGTCTGATAGTACCAGAGACCCCGGAGCTCTGGTGT [1439]

Flying\_Squirrel AATA---ATTCAAGTGTCTGATAATACCCAAGACCCCAAAGATACGGTGT [1499]

Mouse AACA---CGCCAAATGTCTGACAGTGCCAAAGAACTCGGGGATCGGGTCC [1418]

Rat AATG---TGCCAGATGCCTGATAATAACAAAGAACTCGGGGATTTGGTCC [1415]

Old\_World\_Porcupine AACA---GTACAAGTGTCCGAAAGTACCAGAGACTCCAAAGGTCCTGTGT [1397]

Jackrabbit CACA---GTTCAAGTGCCTAACAGTGCCATAGACCCCAAAGATCTCCTGT [1421]

Flying\_Fox AACA---ATTCAAGTGTCTAATAGTACCAAGGACCCCAAAATTTTGATCT [1415]

Dog\_Faced\_Fruit\_Bat AACA---ATTCAAGTGTCTAATAGCACCAAAGACCCCAAAATTCTAATCT [1418]

False\_Vampire\_Bat AACG---ATTAAAGTGTCTAATAGTACCAAAGACCCCAAAGATCTGATAC [1409]

Leaf\_Nosed\_Bat AACA---ATTCAAGTGTCTAATAGTACCAAAGGCCTCAAAGATTTGATAT [1436]

Free\_Tailed\_Bat AACA---GTTCACATGTCTAATAGTACCAAAGACCTCAAAGATCTGATAT [1415]

Little\_Brown\_Bat AGCA---GTTCAAATGTCTAATAGTACCAAAGACCTCGAAGATCTGACAT [1424]

Tomb\_Bat AACA---ATTCAAGTGTCTGATAGTACCAAAGACCTCAAAGATCTGATAT [1421]

Round\_Eared\_Bat AACA---GTTCAAGTGTCTAGTAGCACCAAAGACCTCAAAGATCTGATAT [1424]

Human AACA---GTTAAAGTGTCTAATAATGCTGAAGACCCCAAAGATCTCATGT [1436]

Galago AGAAACAATTCAAGTGTCTAATAGTACCAAA---------GGTCCGGTGT [1433]

Chimpanzee AACA---GTTAAAGTGTCTAATAATGCCGAAGACCCCAAAGATCTCATGT [1436]

Gorilla AACA---GTTAAAGTGTCTAATAATGCCGAAGACCCCAAAGATCTCATGT [1436]

Orangutan AACA---GTTAAAGTGTCTAATAATGCCAAAGACCCCAAAGATCTCATGT [1436]

Howler\_Monkey AACA---GTTAAACTGTCTAATAATGCCAAAGACCCCAAAGATCTCATGT [1436]

Rhesus AACA---GTTAAAGTGTCTAATAATGCCAAAGACCCCAAAGATCTCATCT [1430]

Tree\_Shrew AACA---ATTCAAATATCCAGTAGTACCAAA---------GATCTGGTAT [1412]

Flying\_Lemur AACA---ATTCATGTGTCTAATAGTGCCAAAGACCCCAAAGATTTGGTGT [1439]

Mole AACA---AATCAAGTGTCAAATAATACCAAAGACCCCAAAGATCCGATAC [1433]

Hedgehog GACT---ATTCAAGTGTGTAATAATACCAAAAACCCTAAAGATCTGATAG [1424]

Pangolin -------AATCTAGAAACAATTCTAACCAAAGACCCCAAAGATGTGATAT [1418]

Horse AGCA---AATCGACTGTCTAATAGTGCCAAAGACCCCAAAGATCTGATAT [1439]

Rhino AGCA---ATTCAAGTGTCTAATAGTACCAAAGACCCCGAAGATCTGATAT [1439]

Llama AGCA---ATTCAAGTATCGAACAGTACCAAAGACCCCAAAGTTCTGATAT [1427]

Cow AACA---ATTCAAGTGTCGAATAGTACCAAAGACCCCAAAGATCTGATAT [1412]

Pig GACA---ATTCAAGTGTCGAATAGTAACAAAGACCCCAAAGATGTGATGT [1427]

Hippo AACA---ATTCAAGTGTCAAATAGTACCAAAGACCCCAAAAATCTGATAT [1400]

Sperm\_Whale AACA---ATTCAAGTGTCGAATAGTACTGAAGACCCCAAAGATCTGACAT [1427]

Humpback\_Whale AAAA---ATTCAAGTGTCGAATAGTACCAAAGACCCCAAAGATCTGACAT [1427]

Cat AACG---ATTCACGTGTCTGATAGGACCAGAGATCCCAAAGCGCTGGTAT [1436]

Dog AATG---ACTCAAGTGTCTGATAGTACCAGAGATCCCAAAGAGCTGGTAT [1439]

Dugong AACA---ATTCAAGTGTCTAATAGAACCAGAGACCCCGAGGATCTAGTGT [1421]

Manatee AGCA---ACTCAAGTGTCTAATAGAACCAGAGACCCCGAGGATCTAGTGT [1424]

African\_Elephant AACA---ATTCAAGTGTCTAATATTACCAAAGAGCCCAAGGATCTAGTGT [1421]

Asian\_Elepphant AACA---ATTCAAGTGTCTAATATTACCAAAGAGCCCAAGGATCTAGTGT [1421]

Rock\_Hyrax AACA---GTCCAAATGTCTAATACTGCCAAAGAACCTGAGGATCTAGAGT [1409]

Tree\_Hyrax AACA---GTCCAAATGTCTAATACTGCCAAAGAACCTGAGGATCTAGAGT [1427]

Madagascar\_Hedgehog AACA---GTGCAGGTGTCTAATGGTACCAGAGACCCCAAAGGTGAGGTGT [1409]

Tenrec AGCA---GTGCAGGTGTCTAATAGCGCCAGAGACCCCAAAGATGAGGTGT [1406]

Golden\_Mole AACA---ATGCAAGTATATGATAACACCAAAGAACCTGAGGATCAGGTGT [1427]

Long\_Eared\_Elephant\_Shrew ACCA---GTTCAAGTGTCTAATAGTATCAAAGATCCCAAGGATCAAGTAT [1418]

Giant\_Elephant\_Shrew ACCA---ATTCAAGTGTTGAATAGTACCAAGGACCCTGGAACTCAAGTGT [1397]

Aardvark AACA---ATTCAAGTGTCTGATAGTACCAGAGATCCTACGGATGAGGTGT [1424]

Wombat AGCA---ATC------------CCAAGCAGCAAAGACCAAGATCTGCCCT [1451]

[ 1560 1570 1580 1590 1600]

[ . . . . .]

Nine\_Banded\_Armadillo TAAGTGGAGAAAAGTGTTTGCAA---------ACTGAAAGATCTGCAGAG [1468]

Hairy\_Armadillo TAAGTGAAGGAAAGAGTTTGCAA---------ACTCAAAGGTCTGCAGAG [1477]

Anteater TAAGTGAAGGAAAGAATTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Sloth TAAGTGGAGGAAAGGGTTTGCAA---------ACTGAAAGATCTCTAGAG [1480]

Flying\_Squirrel TAAGTGGAGAAAGGGTTTTGCAA---------ACTGAGAGATCTGTAGAG [1540]

Mouse TAGGAGGAGAGCCCAGTGGCAAA------ACCACTGACCGATCTGAGGAG [1462]

Rat TGGGAGGAGAGCCCAGTGGGAAA------CCTACTGAACCATCTGAGGAG [1459]

Old\_World\_Porcupine TAAGTGGGGAAAAGGGAGTGCAA---------ACCGAGAGGTCTATGGAG [1438]

Jackrabbit TATGTGGAGAAAGGGGCTTGCAA---------ACTGAAAGGTCTGCGGAG [1462]

Flying\_Fox TCGGTGAAGGAAGAGGTTCACAA---------ACTGATCGATCTACAGAG [1456]

Dog\_Faced\_Fruit\_Bat TTGGTGAAGGAAGAGGTTCACAA---------ACTGATCGATCTACAGAG [1459]

False\_Vampire\_Bat TAAGTGGAGGAAGAGGTTTGCAA---------ACCGATCGTTCTATGGAG [1450]

Leaf\_Nosed\_Bat CAAATGGGGGAAGAGGCTTGCAA---------ACTGGTCAATCTATGGAA [1477]

Free\_Tailed\_Bat TAAGTGGAGGAAGAAGTTTGCAA---------ACTGATAGATCTATGGAG [1456]

Little\_Brown\_Bat TAAGTGGAGGAAGAAGTGTGCAA---------ATTGATAGATCTAAAGAG [1465]

Tomb\_Bat TAAGTGGAGGAAGAAGTTTGCAA---------ACTGATAGATCTATGGAG [1462]

Round\_Eared\_Bat TCAGTGGGGGAAGAAGTTTGCAA---------ACTGACAGATCTGTGGAG [1465]

Human TAAGTGGAGAAAGGGTTTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Galago TAAGTGGAGAAAGGGTTTTGCAAATTGAAAGTGAAGAAAGATCTATAAAA [1483]

Chimpanzee TAAGTGGAGAAAGGGTTTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Gorilla TAAGTGGAGAAAGGGTTTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Orangutan TAAGTGGAGGAAGGGTTTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Howler\_Monkey TAAGTGGAGAAAGTGTTTTGCAA---------ATTGAAAGATCTGTAGAG [1477]

Rhesus TAAGTGGAGAAAGGGTTTTACAA---------ACTGAAAGATCTGTAGAG [1471]

Tree\_Shrew TAAGGGGAGAAAGGGGTTTGCAA---------GATGTAAGGTCTGCAGAG [1453]

Flying\_Lemur TAAGTGGGGAGAAGGGTTTGCAA---------ACTGAAAGATCTGTAGAG [1480]

Mole TTAGTGGACAAAGAGATTTGCAA---------GCTGAAAGATCTGGCGAG [1474]

Hedgehog TAAGTGGAAAGAGAGGTTTACAA---------ATTGAAAGATCTGTAGAG [1465]

Pangolin TACATAGAGGA---GGTTTGCAA---------ACTGAAAGATGTGTAGAG [1456]

Horse TAAGTGGAGGAAAATGTTTGCAA---------GCTGAAAGATCTGTAGAG [1480]

Rhino TAAGTGGAGGAAGAGGTTTGCAR---------GCTGAAAGATCTGTAGAG [1480]

Llama TAAGTGGAGGGAGAGGTTTACAA---------ATTGAAAGATCTGTAGAG [1468]

Cow TAAGAGAAGGAAAAGCTTTGCAA---------ATTGAAAGATCTGTAGAG [1453]

Pig TAAGTGGAGGAAAAGGTTTTCAA---------ATTGAAAGATCTGTAGAG [1468]

Hippo TAAGTAGAGGAAAAGGTTTGCAA---------ATTGAAAGATCTATAGAG [1441]

Sperm\_Whale TAAGTGGAGGAAAAGGTTTGCAA---------ATTGAAAGATCTGTAGAG [1468]

Humpback\_Whale TAAGTGGAGGAAAAGGTTTGCAA---------ATTGAAAGATCTGTAGAG [1468]

Cat CGAGTGGAGGAAGAAGTTTGCAA---------ACTGAAAGATCTGTAGAG [1477]

Dog TGAGTGGAGGAAGAGGTTTGCAA---------ACTGAGAGATCTGTAGAG [1480]

Dugong TAAATGGAGGAAGAGGTTTGCAA---------ACTGAAATATCTGTTGAG [1462]

Manatee TAAATGGAGGAAGAGGTTTGCAA---------ACTGAAATATCTGTTGAG [1465]

African\_Elephant TAAATGGAGGAAGAGATTTGCAA---------ACCAAAAAATCTATTGAG [1462]

Asian\_Elepphant TAAATGGAGGAAGAGATTTGCAA---------ACCAAAAAATCTATTGAG [1462]

Rock\_Hyrax TAAATGGAGGGAGAGTTTTGCAA---------ACCAAAAGATCTGTTGAA [1450]

Tree\_Hyrax TAAATGGAGGGGGAGTTTTGCAA---------ACCAAAAGATCTGTTGAA [1468]

Madagascar\_Hedgehog TGGGTAGAGCAAGGGGCCTGCAA---------ACCGCAAGATCTGTTGAG [1450]

Tenrec TGGGTAGAGCAAGGGGCCTGCAA---------ACTGCAAGATCTGTTGAG [1447]

Golden\_Mole TAAGTGGAAGAAGGGATTTGCAA---------ATGGAAAGATCTGTTGAG [1468]

Long\_Eared\_Elephant\_Shrew TAAATAGAGGAAGGAGTTTGCAG------CACACTGGAAAATGTGTTGAG [1462]

Giant\_Elephant\_Shrew TAAGTAAGGAAAGGGGTTTGCAC---------ACTGGGAATTATGTTGAG [1438]

Aardvark TAAACAGA---AGAGGTTTGCAA---------ACTGAAAGATCTGTGGAG [1462]

Wombat TGAATGGAGGGGAGGGGTTGCAA---------GGTGAAAGAGCCCCAGGA [1492]

[ 1610 1620 1630 1640 1650]

[ . . . . .]

Nine\_Banded\_Armadillo AGTACCGGTATTTCAGTGGTACCTGATACTGATTATGGCACTCAAGACAG [1518]

Hairy\_Armadillo AGTACCAGTATTTCAGTGGTACCTGATACTGATTATGGCACTCAAGACAG [1527]

Anteater AGCACCAGTATTTCATTGGTGCCTGACACTGATTATGGCACTCAAGATAG [1527]

Sloth AGTACCAGTATTACAATGATACCTGAAACTGATTATGACACTCAAGACAG [1530]

Flying\_Squirrel AGTACCAGTATTTCATTGGTACCTGATACTGATTATGGCACTCAGGACAG [1590]

Mouse AGCACCAGCGTATCCTTGGTACCTGACACTGACTACGACACTCAGAACAG [1512]

Rat AGCACCAGTGTGTCCTTGGTACCCGACACAGACTACGACACCCAGAACAG [1509]

Old\_World\_Porcupine AGCACTAGCATTTCACTAGTCCCTGACACTGACTGTGGCACTCAGGACAG [1488]

Jackrabbit AGTACCAGTATTTCACTGGTACCTGATACTGAATATGGTACCCAGGACAG [1512]

Flying\_Fox AGTACCAGTATTTTATTGGTGCCTGAAACGGATTATGGCACTCAAGATAG [1506]

Dog\_Faced\_Fruit\_Bat AGTACCAGTATTTTATTGGGACCTGAAACGGATTATGGCACTCAAGATAG [1509]

False\_Vampire\_Bat AGTACCAGTATTTCATTGGTACCTGATACTGATTATGGCACTCAGGCTAG [1500]

Leaf\_Nosed\_Bat AGTACCAGTATTTTATTGGTACCTGATACTGATTATGGCAGTCAGGATAG [1527]

Free\_Tailed\_Bat AGTACCAATATTTTATTGGTACCTGAAACTGATTATGGCACGCAGGATAG [1506]

Little\_Brown\_Bat AGTACCAATATTGTATTGGTACCTGAAACTGATTATGGCACACAGGATAG [1515]

Tomb\_Bat AGTACCAATATTTTATTGGTACCTGAAACTGATTATGACACTCAGTATAG [1512]

Round\_Eared\_Bat AGTCCCAATATTG?ATTGGTACCTGAAACTGACTGTGACACTCAGGATAG [1515]

Human AGTAGCAGTATTTCATTGGTACCTGGTACTGATTATGGCACTCAGGAAAG [1527]

Galago AGCACCAGTATTTCATTGGTACCTGATACTGATTATGGTACTCAGGACAG [1533]

Chimpanzee AGTAGCAGTATTTCATTGGTACCTGGTACTGATTATGGCACTCAGGAAAG [1527]

Gorilla AGTAGCAGTATTTCATTGGTACCTGGTACTGATTATGGCACTCAGGAAAG [1527]

Orangutan AGTAGCAGTATTTCATTGGTACCTGGTACTGATTATGGCACTCAGGAAAG [1527]

Howler\_Monkey AGTAGCAGTATTTTGTTGATACCTGGTACTGATTATGGCACTCAGGAAAG [1527]

Rhesus AGTAGCAGTATTTCATTGGTACCTGGTACCGATTATGGCACTCAGGAAAG [1521]

Tree\_Shrew AGTACCAGTATTTCTTTGGTACCTGATACTGATGATAACACCCAGGATAG [1503]

Flying\_Lemur AGTACCAGTATTTCATTAGTACCTGATACTGATTATGGCACTCAAGACAG [1530]

Mole AGTACCAATATTTCATTGGTACCTGAGACTGATTTTGGCAGTCAGGATAG [1524]

Hedgehog AGT------------CCTGTAGAGAACACTGACTATGGCAGTCAGGATAG [1503]

Pangolin AGTAACAGTATTTCATTGGTACCTGATACTGATTACGGCACTCAGGATAG [1506]

Horse AGTTCCGGTATTTCATTGGTACCTGATACTGATTATGGGACTCAGGATAG [1530]

Rhino AGCACCAGTATTTCATTGGTACCTGATACTGATTATGGCACTCAGGGTAG [1530]

Llama AATACCAGTATTTCCTTGGTACCTGAAACTGATTATGACACTCAGGACAG [1518]

Cow AGTACCAATATTTCCTTGGTTCCTGATACTGATTATAGCACTCAGGATAG [1503]

Pig AATACCAGTATTTCCCTGGTACCTGATACTGATTATGGCACTCAGGACAG [1518]

Hippo AGCACCAGTATTTCCTTGGTACCTGATACTGATTATGGCACTCAGGACAG [1491]

Sperm\_Whale AGTTCCAGTATTTCCTTGGTACCTGATACTGATTATGGCACTCAGGATAG [1518]

Humpback\_Whale AGTACCGGTATTTCCTTGGTACCTGATACTGATTATGGCACTCAGGATAG [1518]

Cat AGTACCAGTATTTCATTGGTACCTGATGCCGATTATGGCACTCAGGATAG [1527]

Dog AGTACCAGTATTTCATTGGTACTTGATACTGATTATGGTACACAGGACAG [1530]

Dugong AGTACCAGTATCTCAGTGATACCTGATACTGACTATGGCAGTCAGAACAG [1512]

Manatee AGTACCAGTATCTCAGTGATACCTGATACTGATTATGGCAGTCAGAACAG [1515]

African\_Elephant AGTACCAATATCTCAGTGATACCTGATACTGTTTATGGCACTCAGGACAG [1512]

Asian\_Elepphant AGTACCAATATCTCAGTGATACCTGATACTGTTTATGGCACTCAGGACAG [1512]

Rock\_Hyrax AGTACTAGTACCTCAGTGATACCTGATGCTGACTGTGGTGCTCAGGACAG [1500]

Tree\_Hyrax AGTACCAGTACCTCAGTGATACCTGATGCTGACTGTGGTGCTCAGGACAG [1518]

Madagascar\_Hedgehog AGTACCAGTGTTTCACTGATACCTGATGCTGATGATGGCCCTCAGGGTAC [1500]

Tenrec AGCACCAGTTTTTCACTGATACCTGCTGCTGCTGACGGCACCCCGGGTGG [1497]

Golden\_Mole AGTACCAGTGTTTCAGTGATACCCGATACTGATCATGGCACTCAGAACCA [1518]

Long\_Eared\_Elephant\_Shrew AGTACCAGTATTTCAGTGTTATCTGATACTGATTATGGCACTCAGAATAG [1512]

Giant\_Elephant\_Shrew AGTACCAGTATTTCAGTAATACCTGATACTGATGATGGTATTCAAAATAG [1488]

Aardvark AATACCAGTATTTCAGTGAAACCTGATACTGATTATAGCACTCAGGACAG [1512]

Wombat AGCCTGGAGGCTTTGGAGGTTCCTGATACTGATTGGGACACTCAGGACAG [1542]

[ 1660 1670 1680 1690 1700]

[ . . . . .]

Nine\_Banded\_Armadillo TATCTCATTACTGGAAGCTGACACCCTGGGGAAGGCAAAAACAGCACTA- [1567]

Hairy\_Armadillo TGTCTCATTACTGGAAGCTGACACCCTGGGGAAGGCAAAAACAGCACTA- [1576]

Anteater TATCTCATTACTAGAAGCTGCTACCCTAGGGAAAGCAAAAGCAGCACCA- [1576]

Sloth TATCTCCTTACTGGAAGCTGACACCCTAGGGAAAGCAAAAGCAGCACCA- [1579]

Flying\_Squirrel TATCTCATTACTGGAAGCTAACACCTTTGGAAAAGCAAGAACAGCATCA- [1639]

Mouse TGTCTCAGTCCTGGACGCTCACACTGTCAGATATGCAAGAACAGGATCC- [1561]

Rat TGTCTCAATACTGGAAGCGAACACTGTCAGATATGCAAGAACAGGATCA- [1558]

Old\_World\_Porcupine TGTCTCCTTACTGGAAGCCGACAGCCTCAGGAAGGCACGGAGAGCATCG- [1537]

Jackrabbit CATCTCATTACTGGGCGCTAACACCCTTGGGAAGGCAAAAACAGCAGCA- [1561]

Flying\_Fox TATCTCATTACTGGAACCTGACATCCCAGAGAGGGTAAAGACAGCACCA- [1555]

Dog\_Faced\_Fruit\_Bat TATCTCATTACTGGAATCTGACATCCCAGGGAGGGCAAAGACAGCACCA- [1558]

False\_Vampire\_Bat TATGTCATTACTGGAACCTGACACCCCAGGGAAGGTAAAAACAGCACCA- [1549]

Leaf\_Nosed\_Bat TATGTCATTACTCGAACCTGACACCCCAGGGAAGGCAAAGACTGCACCA- [1576]

Free\_Tailed\_Bat TATCTCATTACTGGAACCTGACACCCCAGGGAAGGCAAAAAAAGCTCCA- [1555]

Little\_Brown\_Bat TGTCTCATTACTGGAACCTGACATCCCAGGGAAGGCAAAAACAGCTCCA- [1564]

Tomb\_Bat TATCTCATTACTGGAACCTGACACCCCAGGGAAGGCAAAAACAGCACCA- [1561]

Round\_Eared\_Bat CGTCTCCCTGCTGGCACCTGACACCCCAGGGAAGGCAGAAACAGCACCA- [1564]

Human TATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAACCA- [1576]

Galago TAACTCGTTACTGAAAGTTAAAGTCTTACGGAAGGTGAAAACAGCACCA- [1582]

Chimpanzee TATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAACCA- [1576]

Gorilla TATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAACCA- [1576]

Orangutan TATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAACCA- [1576]

Howler\_Monkey TATCTCATTACTGGAAGTTAGCACTCTGGGGAAGGCAAAAACAGAACCA- [1576]

Rhesus TATCTCATTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAACGA- [1570]

Tree\_Shrew CATCTCATTACTAGATGCTAACCCCCTAGCTAGGAAGGCAAAAACAGCAC [1553]

Flying\_Lemur TATCTCAATATTAGAAGCTAACATCCTAGGGAAGGCAAAAACAGCACCA- [1579]

Mole TGTCTCATTACTGGAAATTGACATCCTAGGCAAGGCAAAAAAAGTGCCG- [1573]

Hedgehog TATCTCATTACTGGAAACTGATACTCTAGGGAAGGCAAAAAAGACACCA- [1552]

Pangolin TATCTCATTACTGGAAGCTGACACACTAGGGAAGACAAAAACAGCACCA- [1555]

Horse TATCTCACTGCTGGAAGCTGACACCCTAGGGAAGGCAAAAACAGCACCA- [1579]

Rhino TATCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAAACAGCACCA- [1579]

Llama TGTCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAAACAGCACCA- [1567]

Cow TATCTCATTACTAGAAGCTAAAACCCCAGAAAAGGCAAAGACTGCACCA- [1552]

Pig TATCTCATTACTGGAAACTGACACCCTAGGAAAGGCAAAAACAACACCC- [1567]

Hippo TATCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAGACAGCAACA- [1540]

Sperm\_Whale TATCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAGACAGCACCA- [1567]

Humpback\_Whale TATCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAGACAGCACCA- [1567]

Cat TATCTCATTACTGGAAGCTGACACCCTAGGGAAGGCAAAAACAGCACCA- [1576]

Dog TATCTCATTACTGGAAGCTGACACCCTGAGGAAGGCAAAAACAGTATCA- [1579]

Dugong CATCTCATTACTGGAAGCTGACACCCTCAGGAAGGCAAAAACAGCACCA- [1561]

Manatee CATCTCATTACTGGAAGCTGACACCCTCAGGAAGGCAAAAACAGCACCA- [1564]

African\_Elephant CGTCTCATTGCTGGGAGCTGACACCCCAGGGAAGGCAAAAACAGCACCA- [1561]

Asian\_Elepphant CGTCTCATTGCTGGGAGCTGACACCCCAGGGAAGGCAAAAACAGCACCA- [1561]

Rock\_Hyrax CATCTCGTTACTGGAAGCTGACACTCTAGGGAAGGCAAAAACAGCACCA- [1549]

Tree\_Hyrax TATCTCGTTACTGGAAGCTGACACTCTAGGGAAGGCAAAAACAGCACCA- [1567]

Madagascar\_Hedgehog CATCTCAATCATGGAAGCAGGCAACCGAGGGGAGGCACAAACAGCACCA- [1549]

Tenrec CGTCTCAATAATGGAAGCAGGCAGCCGAGGACAGGCACAAACAGCACCA- [1546]

Golden\_Mole CACCTCATTACCGGAAGCTGGCACCCTCGGGAAGGCAGAAACAGCACCA- [1567]

Long\_Eared\_Elephant\_Shrew CATCTCATTACTGGAGGCTGGCACCCTAGGGAAGGCAGAAACAGCACCA- [1561]

Giant\_Elephant\_Shrew CACCTCATTACTGGAAGCTGGCACATTAGAAAAGGCAGAAGAAACAGCAT [1538]

Aardvark CATCTTATTACTGAAAGCTAACTCCCTAAGGAAGGCAAAAACAGCACCA- [1561]

Wombat TACCTCATTGTTTCCAGCTGATACTCCCCAAAATTCAAAAGCAGGACCC- [1591]

[ 1710 1720 1730 1740 1750]

[ . . . . .]

Nine\_Banded\_Armadillo --AATCAACATGTGAGTCAGTATGTAGCAATTAGAAATGCCACTGAACTT [1615]

Hairy\_Armadillo --AATCAACCTATGAGTCAGTATGCAGCAATTAAAAATGCCACTGAACTC [1624]

Anteater --AATCAACATGTGAGTCTGTGTGCAGCAGTTGGAAATGCCACTGAACTT [1624]

Sloth --AATCAACATGTGAGTCAGTATGCAGCAATTGGAAATGCCACTAAACTT [1627]

Flying\_Squirrel --AATCAACATGTTACTCAGTATGTGGCAATTGAAAATCCCAAAGAATTT [1687]

Mouse --GCTCAGTGTATGACTCAGTTTGTAGCAAGCGAAAACCCCAAGGAACTC [1609]

Rat --GTTCAGTGTATGACTCAGTTTGTCGCAAGTGAAAACCCCAAGGAACTT [1606]

Old\_World\_Porcupine --CATCAGTGTATGGCTCAATATGTGGCGGTTGCGAAGCCCAAGGAACTT [1585]

Jackrabbit --AATGGACATGTGAGTGAGAGCACAACAATTGGAAATCCCAAGGAACTT [1609]

Flying\_Fox --AACCATCAT------------GCAGCAATTAAAAACCCCAGAGAACTT [1591]

Dog\_Faced\_Fruit\_Bat --AACCAACATGCAGATCTGTGTGCAGCAATTGAAAACCCCAGAGAACTT [1606]

False\_Vampire\_Bat --AATCGACGTGCAGGTGTGTGTGCTGCAATTGAAAACCCCAAGGAAATT [1597]

Leaf\_Nosed\_Bat --AATCAACATGTGGGTGTATGTACAGCAGTTGAAAACCCCGAGGAACTT [1624]

Free\_Tailed\_Bat --AATCAATATGCGGGTCTGTGTGCAGAAATTAAAAACC?CAAGGAACTT [1603]

Little\_Brown\_Bat --AATCAATGTGGGGATCTGTGTGCAGCAGTTAAAAATCCTAAAGAACTT [1612]

Tomb\_Bat --AGTCAACATGCGAGTCTGTGTGCAGCAATTGAAAACCCCAAGGAGTTT [1609]

Round\_Eared\_Bat --GGCCAACGTGTGGGTGGGTGCGCAGCTGCTGGAAGCCCGAAGGAACTT [1612]

Human --AATAAATGTGTGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGGACTA [1624]

Galago --AATAAACATGCAAGTCAGGGTACAGCCACTGAAAACCCCAAGGAACTA [1630]

Chimpanzee --AATAAATGTGTGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGGACTA [1624]

Gorilla --AATAAATGTGTGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGGACTA [1624]

Orangutan --AATAAATGTGTGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGAACTA [1624]

Howler\_Monkey --AATAAATGTGTGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGAACTA [1624]

Rhesus --AATAAATGTATGAGTCAGTGTGCAGCATTTGAAAACCCCAAGGAACTA [1618]

Tree\_Shrew CAAATCAATGTGTAAATCAGAGTGCAACAACTGAAAACCCCAAGGAACTT [1603]

Flying\_Lemur --AGTCAACATGCAAATCAGTGTGCAGCAATTGAAAACCCCAAAGAACTT [1627]

Mole --AATCAGTGTGCAAGTCTGTGTACAAAAATTGAAAACTCTAAGGAACTT [1621]

Hedgehog --AATCAATGTGTAAGTCTGTGTGTAGCAACTGAAACCCCCAAAGAACTT [1600]

Pangolin --AATCAATGTGCAAGTCTGTGTGCAGCAATTGAAAACCCCAAGGAACTT [1603]

Horse --AATCAATGTGCAAATCTATGCGCAGCAATTGAAAACCCCAAGGAACTT [1627]

Rhino --GATCAACGTGCAAGTCTATGTGCAGCAATTGAAAACCCCAAGGAACTT [1627]

Llama --AATCAATGTGTGAGTCTCTGTGCAGCAACTGAAAACCCCAAGGAACTT [1615]

Cow --AATCCATGTGTGAGTCTGTGTACAGCAACCAAAAACCTCAAGGAACTT [1600]

Pig --AATCAACATGTGAGGCTGTGTGCAGCAACTGAAAACCCCAAAGAACTT [1615]

Hippo --AATCAACGTGTGGGTCTGTGTGCAGCAACTGAAAACCCCAAGGAACTT [1588]

Sperm\_Whale --AATCAACATGTGAGTCTGTGTGCAGCAATTGAAAGCCCCAAGGAACTT [1615]

Humpback\_Whale --AATCAACATGTGAGTCTGTGTGCAGCAATTGAAAGCCCCAAGGAACTT [1615]

Cat --AATCAACGTGTGAGTCTGTGTGCAGCAATTGAAAACCCCAAGGAAGCT [1624]

Dog --AATCAACAGGCGAATCTGTGTGCAACAATTGAGAACCCCAAGGAACCT [1627]

Dugong --AATCAATGTGCAAGTCAGTGTGCAGCAATTGAAAACCCCAATGAACTT [1609]

Manatee --AATCACTGTGCAAGTCAGTGTGCAGCAATTGAAAACCCCAATGAACTT [1612]

African\_Elephant --AATCGATGTGCAAGTCAGTGTACAGCAATTGAAAACCCAAGTGAACTT [1609]

Asian\_Elepphant --AATCAATGTGCAAGTCAGTGTACAGCAATTGAAAACCCAAGTGAACTT [1609]

Rock\_Hyrax --AATCAAGGGGCAGGTCAATGTTCGGCAATCGAAAACCCCAACGAACTT [1597]

Tree\_Hyrax --AATCAAGGGGCAGGTCAATGTTCAGCAATCGAAAACCCCAACGAACTT [1615]

Madagascar\_Hedgehog --GGTGAATGTGCAAGGCAGTGTGCAGCAACTGAAAACCCCAACAGGAGT [1597]

Tenrec --GATCCATGTGCAAGGCAGTGTACAGCAACGGACAACCCCAGCGAAAGT [1594]

Golden\_Mole --AATCAATGTACAAGTCAGTGTAAAGCAATTGAAAATCCCAACCAACTT [1615]

Long\_Eared\_Elephant\_Shrew --GATCAATGTGCAAGTCACTGTGCAGCAATGGAAAACTCCAAGAAACAT [1609]

Giant\_Elephant\_Shrew TGACTCAATGTGCAAGTCACTGTGCAACAATTTTAAACCCCAACACACAT [1588]

Aardvark --------------AGTCAGTGTGCAGCAATTGAAAATCCTAACAAACTT [1597]

Wombat --AGTCCTCACAGAAGCCACAGTGAAATAATGGAAACCCCCAAGGAACTC [1639]

[ 1760 1770 1780 1790 1800]

[ . . . . .]

Nine\_Banded\_Armadillo TCCCATGGTTGT---TCTAAAGACACTAGAAATGACACTGAAGATTTTAA [1662]

Hairy\_Armadillo TCCCATGGTTGT---GCTAAAGACACTAGAAATGACACTGAGGATTTTAA [1671]

Anteater GTCCATGGTTGT---TCTAAAGATACTAGAAATGACACTGAAGATTTTAA [1671]

Sloth TTCCATGGTTGT---TCTAAAGATACTAGAAGTGACACTGAGAATTTTAA [1674]

Flying\_Squirrel GTCCATGGTCAT---TCTAAAGATACTAAAAATGACCCAGAGGGTTTCAA [1734]

Mouse GTCCATGGC------TCTAACAATGCTGGGAGTGGCACAGAGGGTCTCAA [1653]

Rat GTCCATGGT------TCTAACAATGCTGGAAGTGGCTCGGAGTGCTTCAA [1650]

Old\_World\_Porcupine CTGCCTGCTTGT---TCTGAAGACACTGGAAACGGCACAGACAGCTTAAA [1632]

Jackrabbit AGCCATGATTGT---TTGAAAGATACTGGAAATGACCCAGACAACTGTAA [1656]

Flying\_Fox ATTCATGGTTGT---TCTGAAGATACTAGAAATGATGCAGAGGGCTTTAA [1638]

Dog\_Faced\_Fruit\_Bat ATTCATGATTGT---TTTAAAGAAACTAGAAATGACACAGAGAGCTTTAA [1653]

False\_Vampire\_Bat ATCCATGGTTGT---TCTAAAGATACTAGAAATGACACAGGGGACTTTAA [1644]

Leaf\_Nosed\_Bat ATCCATGGTGGT---TCTAATGATACTAGAAATGACACAGAGAGCTTTAA [1671]

Free\_Tailed\_Bat ATCCATGGTTGT---TCTAACGATAATAGAAATGACAGAGAGGACATTAA [1650]

Little\_Brown\_Bat ATTCGTGGTTGT---TCTAAAGATATTAGAAATGACAGAGAGGGCTTTAA [1659]

Tomb\_Bat AACCATGGTTGT---TCTAAAGATACTAGAAGTGACACAGAGGGTGTTAA [1656]

Round\_Eared\_Bat ATCCGTGATTGT---TCGAAG------------GACACAGAGGGCGTTAA [1647]

Human ATTCATGGTTGT---TCCAAAGATAATAGAAATGACACAGAAGGCTTTAA [1671]

Galago ATCCATGGTTGC---TCTAAAGATACTGGAAATGACACAGAGGGCTATAA [1677]

Chimpanzee ATTCATGGTTGT---TCCAAAGATACTAGAAATGACACAGAAGGCTTTAA [1671]

Gorilla ATTCATGGTTGT---TCCAAAGATACTAGAAATGACACAGAAGGCTTTAA [1671]

Orangutan ATTCATGGTTGT---TTCAAAGATACTAGAAATGACACAGAAGGGTTTAA [1671]

Howler\_Monkey ATTCATGGTTGT---TCTAAAGATACTAGAAATGGCACAGAAGGCTTGAA [1671]

Rhesus ATTCATGGTTGT---TCTGAAGATACTAGAAATGACACAGAAGGCTTTAA [1665]

Tree\_Shrew ATACACAGTTGT---TCTAAAACTACTAGGAAT------GAAGGCTTCAA [1644]

Flying\_Lemur ATCCATGGTTGT---CCTAAAGGTACTAGAAATGACACAGAGGATTTTAA [1674]

Mole ATTCATAGTTGT---TCTAAAGATACTAGAAATGACACACAGGGCTGTAA [1668]

Hedgehog AGCCATAGTTGT---TCTAAAGATACTAGAAATGACACTGAAGGCTTTAG [1647]

Pangolin ACCCATTGTTGT---GCTAAAGATATTAGAAATGACACAGAGAGCTTTAA [1650]

Horse ACCCATGATTGT---TCTAAGGATACTAGAAATGATACACAGGGCGTTAA [1674]

Rhino ATCCATGATTGT---TCTAAAGATACTAGAAATGACACAGAGGGCCTTAA [1674]

Llama ATCCATAGTTGT---TCTAAAGATACTAGAAATGGCACAGCAGGCTTTAA [1662]

Cow ATCCATAGGGAT---TTTAAAGATACCAAAAACAACACAGAGGGCTTTCA [1647]

Pig AGCCTTGGTTGT---TCTAAAGGTGTTAGAAACGACACAGGGGACTTTAA [1662]

Hippo ATCCATGGTTAT---TCCAAAGATACTAGAAACGACATGGACGGCGTCCA [1635]

Sperm\_Whale ATCCACGGTTGT---TCTAAAGATATTAGAAACGACACAGAGGACTTTAA [1662]

Humpback\_Whale ATCCATGGTTGT---TCTAAAGATATTAGAAACGACACAGAGGACTTTCA [1662]

Cat ATCCGTGGTTGT---TCCAAAGATACTAGAAATGGCACAGAGAGTTTTAC [1671]

Dog ATCCATGGTTGT---TCTAAGGACACTAGAAATGACACAGAGGGTTTTGT [1674]

Dugong ATCCATGGTTGT---CCTAAAGATACTAGAAATGACACAGAGGATTTTAA [1656]

Manatee ATCCATGGTTGT---CCTAAAGATACTAGAAATGACACAGAGGATTTTAA [1659]

African\_Elephant ACCAACAGTTGT---CCTAAAGATACTAGAAATGACACAGAGGGTTTTAA [1656]

Asian\_Elepphant ACCAACAGTTGT---CCTAAAGATACTAGAAATGACACAGAGGGTTTTAA [1656]

Rock\_Hyrax ATTCATGGTAGT---CCTAAAGACACTAGAAATGATATAGAGGGTTTTAA [1644]

Tree\_Hyrax ATTCATGGTAGT---CCTAAAGACACTAGAAATGATATAGAGGGTTTTAA [1662]

Madagascar\_Hedgehog GTCCAGGGTCTT---TCCAAAGACACTAGAAATAACAGGGAGGGCTCTGA [1644]

Tenrec GCCCACGGTCTT---TCCAGAGATACTAGAAACAGCACGGAGGGCTTTGC [1641]

Golden\_Mole ATCCATGGTTGT---CCT---------AGAAATGACACAGAGGGCTTTAA [1653]

Long\_Eared\_Elephant\_Shrew GTTCATGACTTT---CCTAAAGATACTGGAAATGATACAAAGGGTTTAAA [1656]

Giant\_Elephant\_Shrew GTTCATGGCTTT---CCTAAAGATCCTGCAAATGACACAGAGGGTGTTAA [1635]

Aardvark AGCCATGGTTTT---CCTAAAGATACCAGAAATGACATAGAGGGTTTTAA [1644]

Wombat TTAGATGGTTGTTCATCCAAAAACACTGAAAGTGACGAAGAAGATTTGAG [1689]

[ 1810 1820 1830 1840 1850]

[ . . . . .]

Nine\_Banded\_Armadillo GGATTCATTGAGACATGAAGTTAACCAC---ACTCAGGGGACAAATGTTG [1709]

Hairy\_Armadillo GGATCCGTTGAGACATGAAGTTACCCAC---ACTCAGGAGACTAGTGTAG [1718]

Anteater GGATTCATTGAGACATGAAGTTAACCAC---ACACAAGGGACAGTCATAG [1718]

Sloth GGATCCATTGAGACATGAAGTTAACCAC---ACACAGGAGACATTTGTAG [1721]

Flying\_Squirrel GGATTCATTGAGATGTGAAGTTAACCAC---ATTCAAGAGACAAATGTAG [1781]

Mouse GCCCCCCTTGAGACACGCGCTTAACCTC---AGTCAGGAGAAA---GTAG [1697]

Rat GCACCCATTGAGACATGAACTTAACCAC---AATCAAGAGACA---ATAG [1694]

Old\_World\_Porcupine TGATCCATTGAGATGTGGAGGGAGCCAC---ATCCAGGAGGCAAATATAG [1679]

Jackrabbit GGATCCACTGAGAAGTGAAGTTGACCAA---------GAGACAAGCGTAG [1697]

Flying\_Fox AGATCCATTGAGACGTGAAGTTAACTAC---A?????????????????? [1685]

Dog\_Faced\_Fruit\_Bat AGATCCATTGAGACATGAAGTTAACTCC---AC????????????????? [1700]

False\_Vampire\_Bat GGATCCACTAAGAGGTGAAGTTAACCAC---AC????????????????? [1691]

Leaf\_Nosed\_Bat GGATTCATTGAGACATGAAGTTAACCAC---GGTCAGGAGACAAGCATAG [1718]

Free\_Tailed\_Bat GGATCTATTGAGACCTGAAGTTAACCAC---A?????????????????? [1697]

Little\_Brown\_Bat GGATCTATTGAGATGTGAAGTTAACCAC---ACGCAGGAGACAAGCATAG [1706]

Tomb\_Bat GGATCTACTGAGATGTGAAATTAACC?C---AC????????????????? [1703]

Round\_Eared\_Bat GGATCTCCCGAGATGTGAAGTTCAGGAG---AC????????????????? [1694]

Human GTATCCATTGGGACATGAAGTTAACCAC---AGTCGGGAAACAAGCATAG [1718]

Galago GGATCCATTGAGACATGAAATTAACCAC---ATTCAGAAGATAAGCATGG [1724]

Chimpanzee GTATCCATTGGGACATGAAGTTAACCAC---AGTCGGGAAACAAGCATAG [1718]

Gorilla GTATCCATTGGGACATGAAGTTAACCAC---AGTCGGGAAACAAGCATAG [1718]

Orangutan GTATCCATTGGGACATGAAGTTAACCAC---AGTCAGGAAACAAGCATAG [1718]

Howler\_Monkey GTATCCATTGGGACCTGAAGTTAACTAC---AGTCAGGAAACAAGCATAG [1718]

Rhesus GTATCCATTGGGAAGTGAAGTTAACCAC---AGTCAGGAAACAAGCATAG [1712]

Tree\_Shrew GGATCCATTGAAAAGTGAAGTTAATCAT---ATTCAGGAGATGAGTGTAG [1691]

Flying\_Lemur GGATCCATTGAGATGTGGAGTTGACCAC---ATTCAGAAGACAAGCATAG [1721]

Mole GGATCCACTGAAATACGAAGTTAACCAC---ACTCAGGAGATAAGGATAG [1715]

Hedgehog GGATTCACTCAGATGTGAAGTTGATCAC---ACGCAGGAGACAAGCACAG [1694]

Pangolin GGATCTATTGAGACATGAAGATAACCAC---ACTCAGGAGACAAGCATAG [1697]

Horse GGATCCATTGAGACGTGAAGTTAACCAC---ACTCAGGAGACAAGCATAG [1721]

Rhino GGATCCATTGAGATGTGAAGTTAACCAC---ACTCAGGAGACAAGCATAG [1721]

Llama GGATCCATTGGGATGTGATGTTAATCAC---ACTCAGGAGGCAAGCATGG [1709]

Cow GGATCTACTGGGACATGACATTAACTACGTCATTCAGGAGACAAGCAGAG [1697]

Pig GGATCCCCTGGCTCATGATGTTAACCAC---ACTCAGGAAGCAAGCATAG [1709]

Hippo GCATCCATTGGGACAGGATGTTAACCAC---ACTCAGGATGCAAGCATAG [1682]

Sperm\_Whale GGATCCACTGGGACATCACGTTAACCAC---ATTCAGGAGGCGAGCACAG [1709]

Humpback\_Whale GGATCCACTGGGACATCACGTTAACCAC---ATTCAGGAGGCGAGCGCAG [1709]

Cat AGATCCTCTGAGACGTGAAGATA?CCAT---ACTCAGGAGACAAGTATAG [1718]

Dog AGTTCCATTGACGTGCAAAGATAACCAC---ACTCAAGAGACAAGCATAG [1721]

Dugong GGATCTGTTGAGATGTGAAGTTAACCAC---ATTCAGGAGACGTGCGTAG [1703]

Manatee GGATCTGTTGAGATGTGAAGTTAACCAC---GTTCAGGAGACATGCATAG [1706]

African\_Elephant GGATCTATTGAGATGTGAAGCTAGCCAC---ATTCAGGAGACATGCATAG [1703]

Asian\_Elepphant GGATCTATTGAGATGTGAAGCTAGCCAC---ATTCAGGAGACATGCATAG [1703]

Rock\_Hyrax GGATCCACTGAGATGCAAAGTTAACCCT---ATTCAGGAGATATGTGTAG [1691]

Tree\_Hyrax GGATCCACTGAGATGCGAAGTTAACCCT---ATTCAGGAGATATGTGTAG [1709]

Madagascar\_Hedgehog GGATCTCTTGACACACGACGTTAACCAC---CTTCAAGAGACATGCACAG [1691]

Tenrec GGATCTATTGACACATGGCGTTCCCCAC---ATCCAAGAGACATGCACAG [1688]

Golden\_Mole GGATCTATTGAAACATGAAGTTAAACAC---AATCAGGAGACATGCATAG [1700]

Long\_Eared\_Elephant\_Shrew GGACTCATTGAAATGTGATGCTAGCCAC---AGTAAGGATACGTACATGG [1703]

Giant\_Elephant\_Shrew GGATCTGTTGAAATGTAATCCTAACCAC---CTTCAGGATACGTGCATAG [1682]

Aardvark GGATCTATTTAGAGGTGAAGATAACCAC---GTTCAGGAGACATACATAG [1691]

Wombat GAGCCTGATGAGACAGGAAGTTAAAAAT---GCCTCCAAGACAACCACAG [1736]

[ 1860 1870 1880 1890 1900]

[ . . . . .]

Nine\_Banded\_Armadillo AAATAGAAGAGAGTGAACTTGATACTCAGTATTTGCAGAATACATTCAAG [1759]

Hairy\_Armadillo AAATGGAAGAGAGTGAACTTGATACTCAGTATTTACAGAATACATTCAAG [1768]

Anteater AAAAGGAAGAGAGTGAACTTGATACTCAGTATTT??????????TACAAG [1768]

Sloth AAATGGAAGAGAGTGAACTTGATACTCAGTATTTACAGAATACATTCAAG [1771]

Flying\_Squirrel AAATGGAAGAAAGTGAACTTGATACTCAGTCTTTAGAGAATACATTCCAA [1831]

Mouse AAATGGAAGACAGTGAACTTGATACTCAGTATTTGCAGAATACATTTCAA [1747]

Rat AAATGGAAGACAGTGAACTTGATACTCAGTATTTGCAGAATACATTTCAA [1744]

Old\_World\_Porcupine AAATGGAAGATAGTGAACTCGACACTCAGTATTTACAGAATACATTCCAG [1729]

Jackrabbit AAATGGAAGAGAGTGAGTTTGATACTCAGTATTTACAGAATACATTCATG [1747]

Flying\_Fox ?????????????????????????????????????????????????? [1735]

Dog\_Faced\_Fruit\_Bat ?????????????????????????????????????????????????? [1750]

False\_Vampire\_Bat ?????????????????????????????????????????????????? [1741]

Leaf\_Nosed\_Bat AAATGGAAGAGAGTGAACTTGATACACAGTATTTACAGGAAACATTCAAG [1768]

Free\_Tailed\_Bat ????GGAAGAGAGTGAACTTGATACACAGTATTTACAGAATACATTCAAG [1747]

Little\_Brown\_Bat AAGTGGAAGAGAGTGAACTTGATACACAGGAATTACAGAATACATTCAAG [1756]

Tomb\_Bat ?????????????????????????????????????GAATACATTC??G [1753]

Round\_Eared\_Bat ?????????????????????????????????????????????????? [1744]

Human AAATGGAAGAAAGTGAACTTGATGCTCAGTATTTGCAGAATACATTCAAG [1768]

Galago AAATGGAAGACAGTGAACTTGATACTCAGTATTTACAGAATACATTCAAG [1774]

Chimpanzee AAATGGAAGAAAGTGAACTTGATGCTCAGTATTTGCAGAATACATTCAAG [1768]

Gorilla AAATGGAAGAAAGTGAACTTGATGCTCAGTATTTGCAGAATACATTCAAG [1768]

Orangutan AAATGGAAGAAAGTGAACTTGATACTCAGTATTTGCAGAATACATTCAAG [1768]

Howler\_Monkey ATATGAGAGAAAGTGAACTTGATACTCAATATTTGCAGAATACATTCAAG [1768]

Rhesus AAATAGAAGAAAGTGAACTTGATACTCAGTATTTGCAGAATACATTCAAG [1762]

Tree\_Shrew AAATGGAGGAGAGTGAACTTGATACTCAGTATTTACAGAATACATTCAGG [1741]

Flying\_Lemur AAATGCAAGAGAGTGAACTTGATACTCAGTATTTACAAAATATATTCAAG [1771]

Mole AGATGGAAGAGAATGAACTTGATACACAGTATTTACAGTCTACGTTCAAA [1765]

Hedgehog AACTGGAGGAGAGTGAACTTGATACACAGTATTTACAGAATACCTTCAAG [1744]

Pangolin GAACGGAAGAGAATAAACTTGATAAGCAGTACTTACAGAATACTTTCAGG [1747]

Horse AAATGGAAGAGAGTGAATTTGATACGCAGTATCTACAGAATATGTTCAAG [1771]

Rhino AAATGGAAGAGAGTGAACTTGATACACAGTATCTACAGAATACGTTCAAG [1771]

Llama AAGTGGAAGAGAGTGAACTTGATACTCAGTATTTGCAGAATACGTTCAAG [1759]

Cow AAATGGAAGACAGTGAACTTGATACACAGTATTTGCAGAATACATTCAAG [1747]

Pig AAGTGGAAGAGAATGAACTTGATACACAGTATTTGCAGAGTATGTTCAAG [1759]

Hippo AAGTGGAAGACAGTGAACTTGATACACAGTATTTGCAGAATACATTCAGG [1732]

Sperm\_Whale ????????????????ACTTGATACTCAGTTTTTGCAGAATATGTTCAAG [1759]

Humpback\_Whale AAATGGAAGAGAATGAACTTGATACACAGTATTTGCAGAATATGTTCAGG [1759]

Cat AAATGGAAGAGAATGAACTTGATACGCAGTGGTTATACAATACGTTCAAG [1768]

Dog AAATGGAAGAGAGTGAACTTGACACGCAGTGCTTACGCAATATGTTCAAG [1771]

Dugong AAATGGAAGACAG?GAACTTGATACTCAGTATTTGCAGAGTACATTCAAG [1753]

Manatee AAATGGAAGACAGTGAACTTGATACTCAGTATTTGCAGAGTACATTCAAG [1756]

African\_Elephant AAATAGAAGAGAGTGAACTTGATACTCAGTATTTGCAGAGTACATTCAAG [1753]

Asian\_Elepphant AAATAGAAGAGAGTGAACTTGATACTCAGTATTTACAGAGTACATTCAAG [1753]

Rock\_Hyrax AAATGGATGAAAATGAACTTGATACTCAGTATATACAGAGTACATTCAAG [1741]

Tree\_Hyrax AAATGGATGAAAATGAACTTGATACTCAGTATATACAGAGTACATTCAAG [1759]

Madagascar\_Hedgehog AAATGGAAGAGAGTGAACTTGATATTCAATCCTTACAGAATACATTCAAA [1741]

Tenrec AAATGGAAGAGAGTGAACTTGATATTCAGTCTCTACAGAATATGTTCAAA [1738]

Golden\_Mole AAATGGAAGAGGGTGAGCTTGATATTCAGTATTTACAGAATACATTCAAG [1750]

Long\_Eared\_Elephant\_Shrew AAATGGAAGATAGTGAACTTGATACTCAGTATTTACAGCATACATTCAAG [1753]

Giant\_Elephant\_Shrew AAATGGAAGATAGTGAACTAGATACTCAGTATTTACAGAATACATTCAAA [1732]

Aardvark AAATGGAAGAGAGTGAACTTGATACTCAGTATTTACAGAATACATTCAAG [1741]

Wombat AAATGGAGGATAGTGAACTCGACACCCAGTATTTACAAAATACCTTCAAA [1786]

[ 1910 1920 1930 1940 1950]

[ . . . . .]

Nine\_Banded\_Armadillo ATTTCAAAGCGCCAGTCATTTGCTCTGTTTTCGAATCCAGAA-------- [1801]

Hairy\_Armadillo ATTTCAAAGCGTCAGTCATTTGCTCTGTTTTCGAATCCAGAA-------- [1810]

Anteater ATTTCAAAGCGTCAGTCATTTGCTCTGTATTCAAATTCTGAA-------- [1810]

Sloth ATTTCAAAGCGTCAATCATTTGCTCTGTTTTCAAATCCAGAA-------- [1813]

Flying\_Squirrel GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGGAAATCTAGA [1881]

Mouse GTTTCAAAGCGTCAGTCATTTGCTTTATTTTCAAAACCTAGAAGTCCCCA [1797]

Rat GTTTCAAAGCGTCAGTCATTTGCTTTATTTTCAAAACTTAGAAGTCCCCA [1794]

Old\_World\_Porcupine GCTTCAAAGCGTCAGTCATTTGCTCTCTTTTCAAATCCAGGAAACTCAAA [1779]

Jackrabbit GGTTCAAAGCGTCGTTCATTTGCTCTGTGTTCAAAACCAGGAGATCCAGA [1797]

Flying\_Fox ???????????????????????????????GAAATCTAGAA-------- [1777]

Dog\_Faced\_Fruit\_Bat ????????????????????TTCAGACCCAGGAAATCTAGAA-------- [1792]

False\_Vampire\_Bat ????????????????????????????TTTCAAATCCAGGAAATCCAGA [1791]

Leaf\_Nosed\_Bat GTTTCAAAGCGTCAATCATTTGCTCTGTTTTCAAATCCAAGAAATCAAAG [1818]

Free\_Tailed\_Bat GTTTCAAAACGTCAGTCGTTTGCTCTGTTTTCAAATCCAGAA-------- [1789]

Little\_Brown\_Bat GTGTCAAAGCGCCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1798]

Tomb\_Bat ?TTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATTCAGAAAATCCAGA [1803]

Round\_Eared\_Bat ????????????????????TGCTCTGTGTTCAAATCCAGG?AATCCAGG [1794]

Human GTTTCAAAGCGCCAGTCATTTGCTCCGTTTTCAAATCCAGGAAATGCAGA [1818]

Galago TTTTCAAAGCGTCAGTCGTTTGCTCTGTTTTCAAACCTAGGA-------- [1816]

Chimpanzee GTTTCAAAGCGCCAGTCATTTGCTCTGTTTTCAAATCCAGGAAATCCAGA [1818]

Gorilla GTTTCAAAGCGCCAGTCATTTGCTCTGTTTTCAAATCCAGGAAATCCAGA [1818]

Orangutan GTTTCAAAGCGCCAGTCATTTGCTCTGTTTTCAAATCCAGGAAATCCAGA [1818]

Howler\_Monkey GTTTCAAAGCGCCAGTCATTTGCTCTGTTTTCAAATCCAGGAAATCCAGA [1818]

Rhesus GTTTCAAAGCGCCAGTCCTTTGCTCTGTTTTCAAATCCAGGAAATCCAGA [1812]

Tree\_Shrew AGTTCAAAGCGTCAGTCATTTGCTCTGTCTTCAAATCCAGGAAATCCAGA [1791]

Flying\_Lemur GTTTCAAAACGTCAGTCATTTGCTCTCTTTTCAAATCCAGGAAATCCAGA [1821]

Mole GCTTCAAAGCGTCAATCATTTGCTCTGTCTTCACATCCGGGAAATTCAGA [1815]

Hedgehog GTTTCAAAACGTCGGTCATTTGCTCTGTTTTCAAGTCCAGAGAATTCAGA [1794]

Pangolin GTTTCAAAGCATCAGTCATTTGCTCAGTTTTCAAATATGGGAAATCCAGA [1797]

Horse GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGGAAGTCCAGA [1821]

Rhino GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATTCAGGAAATCCAGA [1821]

Llama GTTTCAAAGCGTCAGACATTTGCTCTGTTTTCAAATCCAGGAGATTCAGA [1809]

Cow GCTTCAAAGCGTCAGACATTTGCTCTGTTTTCCAATCCAGGAAATCCACA [1797]

Pig GTTTCAAAGCGTCAGACATTTGCTCTGTTTTCAAATCCAGCAAATCCAGA [1809]

Hippo GTTTCAAAGCGTCAGACATTTGCCCTGTTTTCAAATCCAGGAAATCCAGG [1782]

Sperm\_Whale GTTTCAAAGCGTCAGACGTTTGCTCTGTTTTCAAATCCAGAAAATCCAGA [1809]

Humpback\_Whale GTTTCAAAGCGTCAGACGTTTGTTCTGTTTTCAAATCCAGAA-------- [1801]

Cat GGTTCAAAACGTCAGTCATTTGCTCTGTTTTCAAATCCAGGAAACCCAGA [1818]

Dog GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCATATCCAAGAGATCCGGA [1821]

Dugong GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1795]

Manatee GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1798]

African\_Elephant GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1795]

Asian\_Elepphant GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1795]

Rock\_Hyrax GTTTCAAAGCGTCATTCTTTTGCTCTGTTTTCAAATCCGGAA-------- [1783]

Tree\_Hyrax GTTTCAAAGCGTCATTCTTTTGCTCTGTTTTCAAATCCAGAA-------- [1801]

Madagascar\_Hedgehog GTCTCAAAGCGTCAGTCATTTGCTCTGTCTTCAAATCCAGAA-------- [1783]

Tenrec GTCTCCAAGCGTCAGTCATTTGCTCTCTCTTCAAATCCAGAA-------- [1780]

Golden\_Mole GTTTCAAAGCGTCGGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1792]

Long\_Eared\_Elephant\_Shrew GTTTCAAAGCGTCAGTCATTTTCTCTGTTTCCAAATCCAGAA-------- [1795]

Giant\_Elephant\_Shrew GTTTCAAAACGTCAGTCATTTACCCTGTTTCCAAATCCAGAA-------- [1774]

Aardvark GTTTCAAAGCGTCAGTCATTTGCTCTGTTTTCAAATCCAGAA-------- [1783]

Wombat CGTTCAAAGCGCCAGTCATTTGCTCTGCGTTCTAGCCCAAGG-------- [1828]

[ 1960 1970 1980 1990 2000]

[ . . . . .]

Nine\_Banded\_Armadillo -AATGAATGTGCAACAGTCTGTGCCCACTCC------AGGTTCTTAGGGA [1844]

Hairy\_Armadillo -AATGAATGCGCAACAGTGTGTGCCCACTCC------AGGTTCTTAGGCA [1853]

Anteater -AAGGAATGTGTAACAATCTGTGCCCACTCC------AGGTCCGTACGGA [1853]

Sloth -AAGGAATGCGCAACAGTCTCTGCCCACTCC------AGGCCCTTAGGAA [1856]

Flying\_Squirrel AAAGGAATGTGCAGCCAACTATACCTCTTCC------AAGTCCTTACGGA [1925]

Mouse AAAGGACTGTGCT------------CACTCT------GTGCCCTCAAAGG [1829]

Rat AAAGGACTGTACTCTGGTAGGTGCCCGCTCT------GTGCCCTCAAGGG [1838]

Old\_World\_Porcupine AAAGGAATCAACAACAGTCTGTGCCCACTCT------GAGTCCTTTAAGA [1823]

Jackrabbit AAAGGAATGTGCAGCAGTCTGTACCCGCTCC------AACTCCTCAAGGA [1841]

Flying\_Fox -AAGGAATGTGCAACAGGCTATGCCCACTCC------AAGTCCTTGAGGA [1820]

Dog\_Faced\_Fruit\_Bat -AAGGAATGTGCAACAGGCTATGCCCACTCC------AGGTCCTTGATAA [1835]

False\_Vampire\_Bat AAAGGAATGTGCAACAGTCTGTGCCCACTCC------AGTTCCTTAAGGA [1835]

Leaf\_Nosed\_Bat AAAGGAATGTGCAACAATC------CAGTCC------AGGTCCTTAAGGA [1856]

Free\_Tailed\_Bat -AAGGAATATGCAACAGTCTATGGCCACTCC------AGGTCCTTAAGGA [1832]

Little\_Brown\_Bat -AAGGAATGTGCAACAGCCTATGCTCACTCC------CAGTCTTTAAGGA [1841]

Tomb\_Bat AAAGGAATGTGCAACAGTCTATGCCCACTCC------AAGTCCTTAAGGA [1847]

Round\_Eared\_Bat AAAGGAATGTGCAACCATGTATTCCCACTCC------AGGTCCACAAGGA [1838]

Human AGAGGAATGTGCAACATTCTCTGCCCACTCT------GGGTCCTTAAAGA [1862]

Galago -AAGGAATGTGCAACAGTCTGTGCCCAGTCTCTCTCTGCGTCCTTAAGAA [1865]

Chimpanzee AGAGGAATGTGCAACATTCTCTGCCCACTGT------AGGTCCTTAAAGA [1862]

Gorilla AGAGGAATGTGCAACATTCTCTGCCCACTCT------AGGTCCTTAAAGA [1862]

Orangutan AGAGGAATGTGCAACATTCTCTGCCCACTCT------AGGTCCTTAAAGA [1862]

Howler\_Monkey AAAGGAATGTGCAACATTCTCTGCCTGCTCT------AGGTCCTTAAAGA [1862]

Rhesus AGAGGAATGTGCAACATTCTCTGCCCACTCT------AGGTCCTTAAAGA [1856]

Tree\_Shrew AAAGGAA------------------------------------------- [1798]

Flying\_Lemur AAAGGAGTGTGCAACAGTCTATGCCCACTCC------AGGTTGTTAAGGA [1865]

Mole AAAGAAATATCCCCCAGTCTCTGCCCCTTCC------AGGTCCTTGAAGA [1859]

Hedgehog AAAGGCATGTACAAGAGGCTCTGTCCATTCT------AAGTCTTTAAGGA [1838]

Pangolin AAAAGAATGTGCAGCAGTCAGTGCCCACTCT------GGGTCCTTAAGGA [1841]

Horse AAAGAAGTGTGCAACAGTCAGTGCCCACTCC------AGGTCCTTAAGGA [1865]

Rhino AAAGGATTGTGCAGCAGTCTCTGCCCACACC------AGGTCTTTAAGGA [1865]

Llama AAAGGAATGTGCAACGATCTATGCCCACTCT------GGGCCCTTAAGGG [1853]

Cow AAAGGAATGTGCCACAGTCTTTGCCCACTCG------GGGTCCTTAAGGG [1841]

Pig AAAGGAATGTACAACCGTCCATGCCCACTCC------AAGTCCTTAAGAG [1853]

Hippo AAAGGAACGTGCAACAGTCTGTGCTCATTCC------GGGTCCTTAAGGG [1826]

Sperm\_Whale AAAGGAATGTGCAACAGTCTGTGCCCACTCT------GGGTCCTTAAGAG [1853]

Humpback\_Whale -AAGGAATGTGCAACAGTCTGTGCCCGCTCT------GGGTCCTTAAGAG [1844]

Cat AAAGGAATGTGCTACAGCCTGGGCCCGTTCC------ACGTCCTTAAGGA [1862]

Dog AGAGGACTGTGTAACAGTCTGTCCCCGCTCT------GGGGCCTTTGGAA [1865]

Dugong -AAGGAATGTGCAACAATTTGTGCCCACTCC------AAGTCCTTAAGGA [1838]

Manatee -AAGGAATGTGCAACAATTTGTGCCCACTCC------AAGTCCTTAAGGA [1841]

African\_Elephant -AAGAAATGTGCAACAATTTGTGCCCACTCC------AAGTCCTTAAGGA [1838]

Asian\_Elepphant -AAGAAATGTGCAACAATTTGTGCCCACTCC------AAGTCCTTAAGGA [1838]

Rock\_Hyrax -AAGGAGTGTGCGACAAGTTATACCCACTCC------AAGTCGTTAAGGA [1826]

Tree\_Hyrax -AAGGAGTGTGTGAAAAGTTATACCCACTCC------AAGTCGTTAAGGA [1844]

Madagascar\_Hedgehog -AAGGAGTGTGCCTCGCTCGGTGCCCGCCCT------------------- [1813]

Tenrec -AAGGAGTGTGCCACACTCTGTGCCCATCCT------AGCGCCTTCAGGA [1823]

Golden\_Mole -AAGGAATGTGCAACAGTCAGTGCCCACTCT------AGGTCCTTCAGGA [1835]

Long\_Eared\_Elephant\_Shrew -AGGGACTATACA------------------------------------- [1807]

Giant\_Elephant\_Shrew -AAAGAATGTACAACAGTCTGTGCCCACTCC------AGGCTCTCAAAGA [1817]

Aardvark -AAGGAATTTGCAACAGTCCATGCCCACTCC------AGGTCCTTGAGGA [1826]

Wombat -CAGGAATGTAGGAAACCCTCTGCTGTCCCT------GGGACTGTAAATC [1871]

[ 2010 2020 2030 2040 2050]

[ . . . . .]

Nine\_Banded\_Armadillo AACAAAGTCCAAAAGTCACC---TTTGAATGTAGACATAAAGAAGAAAAT [1891]

Hairy\_Armadillo AACAAAGTCCAAAAGTCATT---TTTGAATGTAGGCAAAAAGAAGAAAAT [1900]

Anteater AACAAAGTCCAAAAGTAACT---TTTGACTATAGACAAAAAGAAGAAAAT [1900]

Sloth AACAAAGTCCAAAAGTCACT---TTTGACTGTAGACAAAAA---GAAGAT [1900]

Flying\_Squirrel AACAAAGCCCAGACATGACT---CTTGAATGTGAGCAAGAAGAAGAAAAT [1972]

Mouse AACTGAGTCCAAAGGTGACA---GCTAAAGGTAAACAAAAA---GAACGT [1873]

Rat AACCAAGTCCAAAGGTGACT---TCTAGAGGTGAACAAAAA---GAACGT [1882]

Old\_World\_Porcupine AACAAAATCCAGAAGTCATT---CCTGAATGTGAACAAACAGAAGAAAAT [1870]

Jackrabbit AACAAAGTCCAGAAGTCACT---CTTGAACGTGAACAAAAA---GAAAGT [1885]

Flying\_Fox AACAAAGTCCAAAAGTCACT---CTTGAATGTGACCGAAAA---GAAAAT [1864]

Dog\_Faced\_Fruit\_Bat AACAAAGTCCAAAAGTCACT---CTTGAATGTGACCGAAAA---GGAAAT [1879]

False\_Vampire\_Bat ACGAAAGTCCAAAGGTCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1882]

Leaf\_Nosed\_Bat AACAAAGTGCAAAAGTCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1903]

Free\_Tailed\_Bat AACAAAGTCCAAAAGTCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1879]

Little\_Brown\_Bat AACAAAGTCCAAAAGTCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1888]

Tomb\_Bat AACACAGTCCAAAAGTCACT---CTTGGATGTGGTCAAAAAGAAGAAAAT [1894]

Round\_Eared\_Bat AACGAAGTCCAAAAGTTACT---CTTGAATGTGGACGAAAA---GAACAT [1882]

Human AACAAAGTCCAAAAGTCACT---TTTGAATGTGAACAAAAGGAAGAAAAT [1909]

Galago AA---GGTTCAAAAGTCATT---CTTGAATGTGAACAAATA---GAAAAT [1906]

Chimpanzee AACAAAGTCCAAAAGTCACT---TTTGAACGTGAACAAAAGGAACAAAAT [1909]

Gorilla AACAAAGTCCAAAAGTCACT---TTTGAATGTGAACAAAAGGAAGAAAAT [1909]

Orangutan AACAAAGTCCAAAAGTCACT---TTTGAATGTGAACAAAAGGAAGAAAAT [1909]

Howler\_Monkey AACAAAGTCCAAAGGTCACT---CCTGAATGTGAACAAAAGGAAGAAAAT [1909]

Rhesus AACAAAGTCCAAAAGTTACT---TCTGAATGTGAACAAAAGGAAGAAAAT [1903]

Tree\_Shrew -----------------------CATGTCTGT------GTTAAAGAAAGT [1819]

Flying\_Lemur AACAAAGTCCAAAAGTCACT---CCTGAATGTGAACAAAAAGAAGAAAAT [1912]

Mole GACAAACTCCAAAAATCACT---CTGGAATGTGAACTGAAAGAAGAAAAT [1906]

Hedgehog AACAAAGTCCAAAAGTTATT---CTGGACTGTGAACAAAAAGAAGAAAAT [1885]

Pangolin AACAAAGTCCAAAAGTCACT---CTTGCATATGGACAAAAAGAAGAAAAT [1888]

Horse AACAAAGTCCAAAAGTCACT---CTTAAATGTGGACAAAAAGAAGGAAAG [1912]

Rhino AACCAAGTCCGAAAGTCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1912]

Llama AACAAAGTCCAAAAATCACT---CTTGAATGTGGACAAAAAGAAGAAAAT [1900]

Cow ATCAAAGTCCAAGAGACCCC---CTCAAATGCAGACAAAAAGAAGACAGT [1888]

Pig AACAAAGTCCAAAAGTCACT---CATGAAGGTGGACAAAAAGATGAAAAT [1900]

Hippo AACAAAGTCCAAGAGTCCCT---CTTGAATGCGGACAAAAAGAAGAAAAT [1873]

Sperm\_Whale AACAAAGTCCAAGAGTCCCT---CTTGAATGCAGACAAAAAGAAGAAAAT [1900]

Humpback\_Whale AACAAAGTCCAAGAGTCCCT---CTTGAATGCAGACAAAAAGAAGAAAAT [1891]

Cat AACAAAGTCCAAAAGTCGCT---CTTGAATATGAACAAAAAGAAGAAAAT [1909]

Dog AACAAGGTCCAAAAGTCACT---CTAGAATGTGGACAGAAAGAAGAAAGT [1912]

Dugong AACAAAGTCCAAAAGTCACT---CCTGAGTATGGAGAAGAAGAAGAAAAT [1885]

Manatee AACAAAGTCCAAAAGTCACT---CCTGAGTATGGAGAAAAAGAAGAAAAT [1888]

African\_Elephant AGCAAAGCCCAAAAGTCACT---CTTGTGTGTGGAGAAAAAGAAGAAAAT [1885]

Asian\_Elepphant AGCAAAGCCCAAAAGTCACT---CTTGTGTGTGGAGAAAAAGAAGAAAAT [1885]

Rock\_Hyrax AAGAAAATCCCAAAGTCACT---CTTCAGCGTGGAGAAGAAGAAGAAAAT [1873]

Tree\_Hyrax AAGAAAATCCCAAAGTCACT---CTTCAGCGTGGAGAAGAAGAAGAAAAT [1891]

Madagascar\_Hedgehog --------CCAAACATTGCT---CTTGAGTGTGGGGAAGAA---GGGACT [1849]

Tenrec AACAGAATCCAAACGATGCT---CTTGAGGGTGGAGAAGAA---GGGACT [1867]

Golden\_Mole AACAAAGTCCAAAAGCCACT---CTTGAATGTGGCGAAAAAGAAGAAAAT [1882]

Long\_Eared\_Elephant\_Shrew -------------------------------------------------- [1807]

Giant\_Elephant\_Shrew AACAAAATCCAAGTGTCACT---CTTGAGTGTAGAGAAAAAAAAGAAAAT [1864]

Aardvark AACAAAGTCCAAACATCACT---CTTGAGTGTGGAGAAAAAGAAGAAAAT [1873]

Wombat AGCAGAGTCCAGATAACACCACAGATTGTGGGGGCCAGGAAAAAGAAAAG [1921]

[ 2060 2070 2080 2090 2100]

[ . . . . .]

Nine\_Banded\_Armadillo CAGGGGAAGAAAGAGTCTAAAATCAAACATGTGCAGGTAATTCACACAAC [1941]

Hairy\_Armadillo CAGGGGAAGAAAGAGTCTAAAATCAAACATGTGCAGGCAGTTCATACAAC [1950]

Anteater CAAGGAAAGAAAGAGTCTAAGATCAAACATGTGCAGGCAGTTCATACAAC [1950]

Sloth CAGGAGAAGAAGGAGTCTAAAATCAAACACGTGCAGGCAGTTCATACAAC [1950]

Flying\_Squirrel TGGGGAAAGAAAGAGTCTAAAATTAGGCATGTACAGGCAATTAATGCTAC [2022]

Mouse CAGGGACAGGAAGAATTTGAAATCAGTCACGTACAAGCAGTTGCGGCCAC [1923]

Rat CAGGGACAAGAAGAGTCTGAAATCAGTCATGTACAGGCAGTCACAGTCAC [1932]

Old\_World\_Porcupine TGGGGCAAGAAAGTGCCTAAAATTAGTTGTGTGCAAGAG----------- [1909]

Jackrabbit CAGAGAAAGGAAGAGTGGAAAATCAGTCATGTCCAGGCAGCTGATAGCAC [1935]

Flying\_Fox CAGGGAAAGAAAGAGTCTAACGTCAAGCATGTGCAGGCAGTTTATACAAC [1914]

Dog\_Faced\_Fruit\_Bat CAGGGAAAGAAAGAGTCTAACAT?GAGCATGTGCAGGCAGTTTATACAAC [1929]

False\_Vampire\_Bat CACGGAAAGAAAGAGTCCAAAATCAAGCATGTGCAGGCAGTTCCAACAAC [1932]

Leaf\_Nosed\_Bat CAGGGAAAGAAAGATTCTAAAATCAAGCTTGTACAGGCAGTTCATACAAC [1953]

Free\_Tailed\_Bat CAGGGAGAGAAAGAATCTGAAATCAAGTATGTACGGGGAGTTCACACAAC [1929]

Little\_Brown\_Bat CAGGGAAAGAAAGAATCTAAAATCAAGCATGTACAGGCAGTTCACACAGC [1938]

Tomb\_Bat CAGGAAGAGAAAGAATCTAAAATCAAGCATGTACAGGCTGTTCACACAGC [1944]

Round\_Eared\_Bat CAGGGAGAGAAGGAATTTAATATGGAGCGTGCGCAGCCACCTTACACAAC [1932]

Human CAAGGAAAGAATGAGTCTAATATCAAGCCTGTACAGACAGTTAATATCAC [1959]

Galago CCAGGAATGAAAGAGCCTAAAATCAAGCATATACAGGGAAATAATATCAA [1956]

Chimpanzee CAAGGAAAGAATGAGTCTAATATCAAGCCTGTACAGACAGTTAATATCAC [1959]

Gorilla CAAGGAAAGAATGAGTCTAATATCAAGCCTGTACAGACAGTTAATATCAC [1959]

Orangutan CAAGGAAAGAATGAGTCTAATATCAAGCCTGTACAGACAGCTAATATCAC [1959]

Howler\_Monkey CAAGGAGAGAAAGAGTCTAATATCGAGCTTGTAGAGACAGTTAATACCAC [1959]

Rhesus CAAGGAAAGAAACAGTCTAATATCAAGCCTGTACAGACAGTTAATATCAC [1953]

Tree\_Shrew C------TGAAAGAGTCTAACATCCAACATATACAGGCAGTTAGTACCAT [1863]

Flying\_Lemur GAGGGAAATAAAGAGTCTAAAATCAAGCACATACAGGCAGTTAATACCAC [1962]

Mole CAAGGGAAGAAAGAGTCTAAAACCGAGCATGTACAGGCAGTACATAGAAT [1956]

Hedgehog CAAGGAGAGAAAGCATCTGAAATCAAGTATTTGCCATCAGAACATACAAC [1935]

Pangolin GAGGGAAAGAAAGAGTCTGAAATCAAGCATGTTCAAACAATTCATACAAC [1938]

Horse GAGGGAAAGAAAGAGTCTAAAATCAAGAATGTGCAGTCAGTTCACACAAC [1962]

Rhino CAGGGAAAGAAAGAGTCTAAAGTCAAGCATGTGCAGTCAGTTCATACAAC [1962]

Llama CAGAGAAAGAGCAAGTCTGAAATCAAGCATATGCAGGCAGTTCATACAAC [1950]

Cow CAGGGAAAGAGTGAGTCTAAAAGCCAGCACGTGCAGGCCATTTGTACAAC [1938]

Pig CAGGGAAAGAGTGAGTCTAAAGTCAAGCATGGGCAGTCAGTTCATACAAC [1950]

Hippo CAGGGCAAGAGTGAATCTAAA---------ATGCAGGCAATTTATACAAC [1914]

Sperm\_Whale CAGGGAAAGAGTGAGTCTAAAATCAAGCATGTGTGGGCAATTAATACAAC [1950]

Humpback\_Whale CAGGGAAAGAGTGAGTCTAAAATCAAGCATGTGCGGGCAATTAATACAAC [1941]

Cat CAGGGAAAGAATCAGTCTGAAATCAAGCATGTGCAGGCAGTCCGTGCAAC [1959]

Dog CAGGGAAAGAAAGAGTCTGAAATCAGACATGTGCAGGCAGTTCATACAAA [1962]

Dugong CAAGGGAACAAAGAGTCTAAAATCAAGCATGAGCAGGCAGTTCATACGAC [1935]

Manatee CAAGGGAACAAAGAGTCTAAAATCAAGCATGAGCAGGCAGTTCATACAAC [1938]

African\_Elephant CAAGGGAACAGAGAGCCTAAAATCAAGCATGAGCAGGCAGTTCATATGCC [1935]

Asian\_Elepphant CAAGGGAACAGAGAGCCTAAAATCAAGCATGAGCAGGCAGTTCATATGCC [1935]

Rock\_Hyrax CAAGGGAACAAAGAATCTAAAATCAAGCAT---------GTTCATACAAC [1914]

Tree\_Hyrax CAAGGGAACAAAGAATCTAAAATCAAGCAT---------GTTCATACAAC [1932]

Madagascar\_Hedgehog GAGGAGAACAAAGAGTCTGCAGTTCGACCTGTGCAGGCAGTTCCTGCAAC [1899]

Tenrec CGGGAGAACAAAGAGTCTACAATTAAGCCTGTGCGGGCAGTTCATACCAC [1917]

Golden\_Mole CAGGGGCACAAAGAGTCTAAAGTCAAGCATGTACAGGCAGTTCATACAAG [1932]

Long\_Eared\_Elephant\_Shrew ------------------------AAGCTAGTGCAGCTAGTTCATACCAC [1833]

Giant\_Elephant\_Shrew CAGGGGAATGAAGAGTCTAAAATGAAACATGTGCAGGTCGTTCATACATC [1914]

Aardvark CAGGGGAACGAGGAATCTAAAATCAAGTGCGTACAGCTAGTTCTTTCAAC [1923]

Wombat CAGGGAAACAGAGAATCAAA---CAAGCCTGTGTGGCCAAAGTCTGCAGT [1968]

[ 2110 2120 2130 2140 2150]

[ . . . . .]

Nine\_Banded\_Armadillo TGCAGGCTTTCCTATAGTTTGTCAGAAAGAT------AAGCCAGGTGATT [1985]

Hairy\_Armadillo TGCAGGCTTTCCTGTAGTTTGTCAGAAAGAT------AAGCCAGGTGATT [1994]

Anteater CGCAGGCTTCTCTGTAGTTTGTCAGAAAGAT---AAGAAGCCCCATGATT [1997]

Sloth TGCAGACTTTCCTGTAGTTTGTCAGAAAGAT------AAGCCAGGTGATT [1994]

Flying\_Squirrel T------------ATGGTTTGTCAGAAAAGT------AAGCCAGATGATG [2054]

Mouse AGTGGGCTTACCTGTGCCCTGTCAAGAAGGT------AAGCTAGCTGCTG [1967]

Rat AGTAGGCTTACCTGTGCCCTGTCAGGAAGGT------AAGCCAGGTGCTG [1976]

Old\_World\_Porcupine ----AGCGCCCCTCTGGTTTCTCAGAGGGAT------CAGCCAGGCACCA [1949]

Jackrabbit TGTGGGCTTTCCTGTGGTGTGTCAGAAAGAA------AAGGCAGGTGATT [1979]

Flying\_Fox TGTAGGCTTTCCTGTGGTTTGTGAGAAAGAA---AAAAAGCCAGGAGATT [1961]

Dog\_Faced\_Fruit\_Bat TATAGGCTTTCCTGGGGTTTCTGAGAAAGAC---AAAAAGCCAGGAGATT [1976]

False\_Vampire\_Bat TGCAGGCTTTCCTGTGGTTTGTGAGAAAGAA---AAAAATCCAGGAGATT [1979]

Leaf\_Nosed\_Bat TGCAGGCTATCCTGTGGTTTGTGAGAAAGAT---GAAAATCCAGGAGATT [2000]

Free\_Tailed\_Bat TGCAGGCTTTCCTGTGGTTTGTGAGAAAGAC---GAAAAGCCAGAAGAAT [1976]

Little\_Brown\_Bat TGTAGGCTTTCCTGTGGTTTGTGAGAAAGAC---AGAAAGCCAGGAGAGT [1985]

Tomb\_Bat TGCAGGCCTTCCTGCCATTTGTGAGAAAGAC---AAGAAGCCAGGAGAAT [1991]

Round\_Eared\_Bat AGCAGGCTTTCCTAAGGGTTGTGAGAAAGAC---AAAACGCCAGGAGAGT [1979]

Human TGCAGGCTTTCCTGTGGTTGGTCAGAAAGAT------AAGCCAGTTGATA [2003]

Galago TACAGGCTTCTCTGTAGTTTGTCAGAAAGAT---AAGAAAACAGATGATT [2003]

Chimpanzee TGCAGGCTTTCCTGTGGTTTGTCAGAAAGAT------AAGCCAGTTGATT [2003]

Gorilla TGCAGGCTTTCCTGTGGTTTGTCAGAAAGAT------AAGCCAGTTGATT [2003]

Orangutan TGCAGGCTTTCCTGTGGTTTGTCAGAAAGAT------AAGCCAGTTGATT [2003]

Howler\_Monkey TGCAGGCTTTCCTATGGTTTGTCAGAAAGAT------AAGCCAGTTGATT [2003]

Rhesus TGCAGGCTTTTCTGTGGTTTGTCAGAAAGAT------AAGCCAGTTGATA [1997]

Tree\_Shrew G---------------GTTTTTCAGAAAGAT------AAGCTAGGTGATT [1892]

Flying\_Lemur TGTGGGCTTTTCTGTCCTTTGTCAGAATGTT---AAGAAGCCAGGTGATT [2009]

Mole TGCAGACTTAACTCTGGCTTGTCAGAACGAT------AAGCCACATGATT [2000]

Hedgehog TACAGGCTTTCCTGTGGTGTGTTATAAAGAT------ACATCAGGTGATT [1979]

Pangolin TGCAGGCCCTCTTGTGGTTAGTCAGAAAGAT---GAGAAGCCAGGTGATT [1985]

Horse TGTGGGCTTTCCTGTGATTTGTCAGAAAGAT---AAGAAGCCAGGTGACT [2009]

Rhino TGTGGACTTTCCTGTGGTTTGTCAGAAAGAT---AAGAAACCAGGTGATC [2009]

Llama TTTGAACTTTCCTGTGGTTGGTCAAAAAGAT------AAGCCGAGTGATT [1994]

Cow AGTGCACTTTCCTGTGGCTGATCAGCAAGAT---AGGACGCCAGGTGACG [1985]

Pig TGTGGACTTTCTAGTGGTTGGTCAAAAGGAT---AAGAAGCCGAGTGATT [1997]

Hippo TGTGGACTTTGCTGTGGCTGGTCAAAATGAT---AGGAAGCCGAGTGATT [1961]

Sperm\_Whale TGTGGACTTCCCTGTTGCTGGTCAAAAAGAT------AAGCCGAGCGATC [1994]

Humpback\_Whale TGTGGACTTCCCTGTTGCTGGTCAAAAAGAT---AAGAAGCCGAGCGATC [1988]

Cat TGCAGGCTTTTCTGCAGTCAGTCAGAAAGTG---GAGAAGCCAGGTGATT [2006]

Dog TGCAGGCTTTTCTGCAGTTAGTCAGAAAGCT---AAGAAGCCAGGCGATT [2009]

Dugong TGCGGGCTATCCTGAGGATTGTCAGAAAGAG---AAGAAGCCAAGTGATT [1982]

Manatee TGCTGGCTATCCTGAGGATTGTCAGAAAGAG---AAGAAGCCAAGTGATT [1985]

African\_Elephant TACAGGCTATCCTGAGGCTTGTCAGAAAGAG------AAGCCAAGTGACT [1979]

Asian\_Elepphant TGCAGGCTATCCTGAGGCTTGTCAGAAAGAG------AAGCCAAGTGACT [1979]

Rock\_Hyrax TGCAAGCTGTCCTGAGGTTTGTCAGGAAGAC---ACAAAGCCTAGTGATC [1961]

Tree\_Hyrax TGCAAGCTGTCCTAAGGTTTGTCAGGAAGAC---GCAAAGCCTAGTGATC [1979]

Madagascar\_Hedgehog TGTGGGCGGTGCTGGAGGTAGTCCAACAGAG---CAACAGCCACGTGATT [1946]

Tenrec CGTGGGC------------------ACGGAG---AAGCAGCCAAGTGATT [1946]

Golden\_Mole TGTGGGCTATCCTGGACTCTGTCAGAAAGAG------AAGCCAAGTGATT [1976]

Long\_Eared\_Elephant\_Shrew TGCGAGCTATCCTGGAGCCTGTGAGGAAAAG------AAACCAAATGATT [1877]

Giant\_Elephant\_Shrew TGTGCACTATCCGGGAGTTTGTGAAGAAGAG---AAGATACCAGATGATC [1961]

Aardvark TACAGGCTATGCTGGAGCTTGTCAGAAAGAG------AAGCCAAGTGATT [1967]

Wombat CATGAGCTTAGCTGCGGCTTGTCAGACAGAGGAGAGGAAGCCAGGTGTTT [2018]

[ 2160 2170 2180 2190 2200]

[ . . . . .]

Nine\_Banded\_Armadillo ATGCCAAAGGTAGCATTCAAGGAGTCTCTAGGCTTTGTCAGTCCTCTCAG [2035]

Hairy\_Armadillo ATGCCAAATGTAGCATTCAAGAAGTCTCTAGGCTTTGTCAGTCCTCTCAG [2044]

Anteater ATGCCAAGTGTAGCATTCAGGGAGTCTCTAAGCTTTGTGAGTCATCTCAG [2047]

Sloth ATGCTAAATGTAGCATTCAAGGAGTCTCTAAGCTTTGTCAGTTATTTCAG [2044]

Flying\_Squirrel ATGCCCAATGTAGTGTTACAGAAGTCTCTAGAATTTTTCCATCATTTCAG [2104]

Mouse ATACAATGTGTGAT------AGAGGTTGTAGGCTTTGTCCATCATCTCAT [2011]

Rat TTACAATGTGTGCT------GATGTTTCTAGGCTTTGTCCGTCATCTCAT [2020]

Old\_World\_Porcupine GCATCATATGTAGCGGCACAGGAGTCTCGAGGCTCTGTCTCTCGTCTTGG [1999]

Jackrabbit GTGCCAAATGGAGCACTAAAGAGATCTCTAGGCTTTGTCTGTCATCTCAG [2029]

Flying\_Fox ATGCTAAATATGGCATAAAAGAAGTCTCTAGGCTTTGTCAGTCATTTCAG [2011]

Dog\_Faced\_Fruit\_Bat ATGCCAGATATGGCATAAAAGAAGTCTCTAGGCTTTGTCAGTCATTTCAG [2026]

False\_Vampire\_Bat ATGCCAAATATACCAAAAAAGGAGTCTCTAGGCTTCGTCAGTCATCTCAG [2029]

Leaf\_Nosed\_Bat ATGCCAAATACAGCACAAAAGGAGTCTCTAGGCTTTGTCAATCATCTCTG [2050]

Free\_Tailed\_Bat ATGCCAAATGTAGCATAAAAGGAACCTCTAGCCTTTGTCAGCCACCTCAG [2026]

Little\_Brown\_Bat ATGCCAAATACAGCATAAAAGGAACCTCTATGCATTGCC?GTCCTCTCAG [2035]

Tomb\_Bat ATGACAGATACAATATAAAAGGAATCTCTAGGCTTTGTCAGTTATCTCAG [2041]

Round\_Eared\_Bat GTGCCACATATACTATGAAAGGAATCTCTAAGCCTTGTCAGTCATCTTCG [2029]

Human ATGCCAAATGTAGTATCAAAGGAGGCTCTAGGTTTTGTCTATCATCTCAG [2053]

Galago ATGCCAAATACAGCATCAAAGAAGCATCTAGGTTTTGTTTGTCAAATCAG [2053]

Chimpanzee ATGCCAAATGTAGTATCAAAGGAGGCTCTAGGTTTTGTCTATCATCTCAG [2053]

Gorilla ATGCCAAATGTAGTATCAAAGGAGGCTCTAGGTTTTGTCTATCATCTCAG [2053]

Orangutan ATGCCAAATGTAGTATCAAAGGAGGCTCTAGGTTTTGTCTATCATCTCAG [2053]

Howler\_Monkey ATGCCAGATGT---ATCGAAGGAGGCTCTAGGCTTTGTCTATCATCTCAG [2050]

Rhesus ATGCCAAATGTAGTATCAAAGGAGGCTCTAGGTTTTGTCTATCATCTCAG [2047]

Tree\_Shrew TTGCTACATCTGGCATTAAAGAAGTCCCTAGACTTTGTCCATCATCTCAG [1942]

Flying\_Lemur ATGCCAAATTTAGCATTAAAGGAGTCTCTAGGCATTGTTCATCATCTCAG [2059]

Mole CTGCCAAATGTAGCATAAAAGGAGTCTCTAGGCTTTGTCAGTCATCTCAG [2050]

Hedgehog ATGCCAAATGTAGCGTAAAAGGAGTCTCCAGGCATTGTCAGCCATCTCGG [2029]

Pangolin ATGTAAAATTTGGCATAAAAGGAGTCTCTACGCATTGTCAGTCATCTCAG [2035]

Horse ATGTCAAATGTAGCACAAAAGAAGCCTCTAGGCTTTGTCAGTCATCTCAG [2059]

Rhino ATGTCAAATATAGCATAAAAGAACTCTCTAGGCTTTGTCAGTCATCTCAG [2059]

Llama ATGCCAAATATAGCCCAAAAGGAATATCTAGGCTTTGTTGGCCATCACAG [2044]

Cow ATGCCAAATGTAGCGCAAAAGAAGTAACTAGGGTTTGTCAGTCATCACAG [2035]

Pig TTGCCAAATGTGGTGCAAAAGGAGTAACTGGGCTTTATCAGACATCACAG [2047]

Hippo ACACCAAATGTAGCACTAAAGGAGTAACTAGGCTTTGTCCCTCATCACAG [2011]

Sperm\_Whale ATGCCAAACGTAGCCCCAAAAGAGTAACTAGGCTTTGTCAGTCATCACAG [2044]

Humpback\_Whale ATGCCAAACGTAGCCCAAAAAGAGTAACTAGGCTTTGTCAGTCATCACAG [2038]

Cat ATGCCAAATGTAGCATAAAAGGAGTCCCTGGGCTCTGTCAGTCATCTCAG [2056]

Dog TTGCCAAATGTAGCATAAAGGGAGTCTCTCGGCTTTGTCTGTCATCTCAG [2059]

Dugong ATACCAAAAGTAGCATCAAAGGAGTCTCTAGGCTTTGTCAGTCATCTCAG [2032]

Manatee ATACCAAATGTAGCACTAAAGGAGTCTCTAGGCTTTGTCAGTCATCTCAG [2035]

African\_Elephant ATACCAAATATAGCATTAAAGGAGTCTCTGGGCTTTGTCAGTCATCTCAG [2029]

Asian\_Elepphant ATACCAAATATAGCATTAAAGGAGTCTCTGGGCTTTGTCAGTCATCTCAG [2029]

Rock\_Hyrax GTACTAACTGTAGTGTTAAAGGACTCCCTAGGCTTTGTCACTCATCTCAA [2011]

Tree\_Hyrax GTACCAACTGTAGTGTTAAAGGACTCCCTAGGCTTTGTCACTCATCTCAA [2029]

Madagascar\_Hedgehog ATACCAAAAGTCACCTTCAAGGAGTGTCCAGGCTTGGTCAGGCAGCTCCA [1996]

Tenrec ACACCAACAGTAGCTTTCAAGGAGTTTCTAGGCGTGGTCAGGCATCTCAA [1996]

Golden\_Mole ATACCAAAGGTAGCATTCAGGGGGCCTCTAGGCTTCATCAGTCATCTCAG [2026]

Long\_Eared\_Elephant\_Shrew TTACCAAATGTAGCATTAAAGGAGTCACTAGACTCTCTCATTCATCTCCA [1927]

Giant\_Elephant\_Shrew ACACCAAAGTTAGCATTAAAGGGATCTCTAGGCTTTGTCAGTCATCTCCT [2011]

Aardvark ATGCCAAATGTAGCATTAAAGGAGTCTCTAGACTTTGTCAGTCATCTCAA [2017]

Wombat ATGCCAAATGTAGCACCACAGAAGTGTCCAGGCTTTGTCACATAGCTCCA [2068]

[ 2210 2220 2230 2240 2250]

[ . . . . .]

Nine\_Banded\_Armadillo GCC---AGAGGCAATGAATCTGAACTCATTAATTCAAATGAACATGAAAT [2082]

Hairy\_Armadillo TTC---AGAGGCAATGAATCTGAACTCATTACTGCAAATGAACATGAAAT [2091]

Anteater TTC---AGAGGCAATGAATCTGAACTCATTACTGCAAACGAACATGGAAT [2094]

Sloth TTC---AGAGGCAATGAATCTGAACCCATTACTGCAGATGAACATGAAAT [2091]

Flying\_Squirrel TTC---AGAGACAATCTAACTAAACTCATAACTGCAGATAAACATGGAAT [2151]

Mouse TAC---AGAAGCGGGGAGAATGGACTCAGCGCCACAGGTAAATCAGGAAT [2058]

Rat TAT---AGAAGCTGTGAGAATGGACTCAACACCACAGATAAATCTGGAAT [2067]

Old\_World\_Porcupine TTC---ACAGGCAGCAAAACTGAACTCGTCACAGCTGACAAACATGGAAT [2046]

Jackrabbit TCC---AAAGGCAGTGAAACTGAGCTCATTGCTGTAAGTAAACATGGGAT [2076]

Flying\_Fox TTC---AGAGAAAATGAAACTGAACTCACTATTGCAAATAAACTTGGAAT [2058]

Dog\_Faced\_Fruit\_Bat TCT---AGAAGAAATGAAACTGAGCTCACTATTGCAAATAAACTTGGACT [2073]

False\_Vampire\_Bat ATC---AGAGGCAACAAAACCGAACTCACTGTTACAAATAAACATGGAAT [2076]

Leaf\_Nosed\_Bat TTC---AGAAGCAACGAAACTGAACTCACTATTGCAAATAAACATGGAAT [2097]

Free\_Tailed\_Bat TTC---AGAGGCAACGAAACTGAACTCACTATTGCAAATAAACCCGGAAT [2073]

Little\_Brown\_Bat TTC---AGAGGCAACAAAACTGAACTCACTATTACAGATAAATATGGACT [2082]

Tomb\_Bat TTC---AGAGGCAATGAAACTGAACTCACTATTGAAAATAAACACAGAAT [2088]

Round\_Eared\_Bat TTC---AGAGGCAATGAAACTAAACTCACTATTGAAAATAAATATGGGAT [2076]

Human TTC---AGAGGCAACGAAACTGGACTCATTACTCCAAATAAACATGGACT [2100]

Galago TTT---CGAGACAATGAAACTGAATCCATTACTGTAAATAAACTTGGAAT [2100]

Chimpanzee TTC---AGAGGCAACGAAACTGGACTCATTACTCCAAATAAACATGGACT [2100]

Gorilla TTC---AGAGGCAACGAAACTGGACTCATTACTCCAAATAAACATGGACT [2100]

Orangutan TTC---AGAGGCAACGAAACTGGACTCATTACTCCAAATAAACATGGACT [2100]

Howler\_Monkey TTC---AGAGGCAACGAAACTGGACTCATTATTCCAAATAAACATGGACT [2097]

Rhesus TTC---AGAGGCAACGAAACTGGACTCATTACTCCAAATAAACATGGACT [2094]

Tree\_Shrew TTC---AGAGGCAATGAAACTGATCTCATTACTGCAAATAAACCTGAAGT [1989]

Flying\_Lemur TTC---AGAGGCAATGAAACTGAACTCATTACTGCAAATAAACATGGAAT [2106]

Mole TTC---AGAGGCAACGAAACAGAAGTCATTGTTGCAAATAAACGTTTAAT [2097]

Hedgehog TTC---AGAGGCAGTGAACCTGAACTCATTGTTGCAAATAAAAATTTAAT [2076]

Pangolin TTC---AGAGGCAATAAAACTGAACTTATTTTTGCAAATAAACCTGGAAT [2082]

Horse TTC---AGAGGCAACGAAAC?GAACTTATTACTGCAAATAAACATGGAAT [2106]

Rhino TTC---AGAGGCAATGAAACTGAACTCATTACTGCAAATAAACGTGAACT [2106]

Llama CTC---AGAGGCAATGAATCTGAGTTCATTATTGCAAATAAACATGGGAT [2091]

Cow TTG---AGAGGCCACAAAACTGAACTTGTTTTTGCAAATAAACAAGGGGT [2082]

Pig TTC---AGAGGCCACAAAACTGAGTTCATTAATGCAAATAAACCTGGGAT [2094]

Hippo TTT---GGAAGCAACAAAACTGAGCACATTATTGCAAATAAATATGGAAT [2058]

Sperm\_Whale TTC---AGAAGCAACAAAACTGAGCTCATTATTGCAAATAAACATGGGAT [2091]

Humpback\_Whale TTC---AGAAGCAACAAAACTGAGCTCATTATTGCAAATAAACATGGGAT [2085]

Cat TTC---AGAGGCAATGAAACTGAACTCTTTATTGCAAATAACCATGACAT [2103]

Dog TTC---AAAGGCAAGGAAACTGAACTCCTTATTGCAAATTACCATGGAAT [2106]

Dugong TTC---AGAGGCAGTGAATCCCAACACATTACTGCAGGTGAACATGGAAT [2079]

Manatee TTC---AGAGGCAGTGAATCCGAACACATT---ACAGGTGAACATGGAAT [2079]

African\_Elephant TTC---AGAGGCAGTGAATCTGAACTCATTACTGCAGATGGACATGGAAT [2076]

Asian\_Elepphant TTC---AGAGGCAGTGAATCTGAACTCATTACTGCAGATGGACATGGAAT [2076]

Rock\_Hyrax TTC---AAAGGTAGTGAGTCTGAACTCATTACTGAAGGTGAACATGGAAT [2058]

Tree\_Hyrax TTC---AAAGGTAGTGAGTCTGAACTCATTACTGAAGGTGAACATGGAAT [2076]

Madagascar\_Hedgehog TTC---AGAGGCAGTGAATCTGACCCCAGTACCTCAGTTGAACATGGGAT [2043]

Tenrec TTC---AGAGCCAGTGAATCTGACCCCGGTACCTCAGTCGAACACGGAAG [2043]

Golden\_Mole TTC---AGTGGCAATGAATCTGAACAAATTACTGCAAATGAAAATGGAAT [2073]

Long\_Eared\_Elephant\_Shrew TTG---AGAGGCAATGAATCTGAACTCATTACCGCAAATGAACATGAAAT [1974]

Giant\_Elephant\_Shrew TTC---AGGAGCAATGAATCTGAACGCATTACTGAAAATGAATGTAAAAT [2058]

Aardvark TTC---AGAGGCAATGAATCTGAAATCATTACTGCAAATGAACATGGAGT [2064]

Wombat TTACATGGTGTCATTGACTGTGAACACATTGCTGGAAACAACCAGGGAAT [2118]

[ 2260 2270 2280 2290 2300]

[ . . . . .]

Nine\_Banded\_Armadillo TTCACAAAACCCAGATCAAATGCCATCACTTTCTCACATGAAGTCATCTG [2132]

Hairy\_Armadillo TTCACAAAACCCAGATCAAATGCCATCACTTTCTCACATCAGGTCATCTG [2141]

Anteater TTCCCCAAATCCAGATCAAATGCCATCACTTTCTCCCAACAGGTCATCTG [2144]

Sloth TTCACAAAATCCAGATCAGATGCCATCACTTTCTCCCATGAAGTCATCTG [2141]

Flying\_Squirrel TTCACAAAACCCATATCATATGCCATCCATTTCTCCCAGCAGGTCATCTG [2201]

Mouse TTCACAAAACTCACATTTTAAACAATCAGTTTCTCCCATCAGGTCATCTA [2108]

Rat TTCACAAAACTCACATTTTAGACAATCAGTTTCTCCCCTCAGGTCATCTA [2117]

Old\_World\_Porcupine TTCACAAAATCCATATCACATGCCATCAATTTCTCCCATCAGGCCATTTG [2096]

Jackrabbit GTCACAAAACCCATATCATATACCACCAATTTCTCCCATCAAGACATCTG [2126]

Flying\_Fox TTCACAAAACCCATATCATATGCCATCCATTCCTCCCATCAAGTCATCTG [2108]

Dog\_Faced\_Fruit\_Bat TTCACAAAACCCATATCATATGCCATCCATTTCTCCCATCAAGTCATCTG [2123]

False\_Vampire\_Bat TTCTCAAAACCCATATCATATACCACCCATTTCTTCCATCAGGTCATCTG [2126]

Leaf\_Nosed\_Bat TTCTCAAAACCCACATAATATACCACATATTTCTCCCATCAGGTCATCTG [2147]

Free\_Tailed\_Bat TTCACGAAACCCATATCATATACCATGCATTTCTCCCATCAGGTCCTTTG [2123]

Little\_Brown\_Bat TTCCCCAAACCCATATCATATACCATCCATTTCTCCCATCAAGTCATTTG [2132]

Tomb\_Bat TTTACAAAACCCATATCATATATCACCCATCTCTCCCATCAGGTCATCTG [2138]

Round\_Eared\_Bat TTCACAAAACCCCTATCACATACCACCCATTTCTCCCGTCAGGTCATCTG [2126]

Human TTTACAAAACCCATATCGTATACCACCACTTTTTCCCATCAAGTCATTTG [2150]

Galago TTTACAAAACCTCTATCATATACCACCACTTTCTCCTATCAGGCTATTTG [2150]

Chimpanzee TTTACAAAACCCATATCATATACCACCACTTTTTCCCATCAAGTCATTTG [2150]

Gorilla TTTACAAAACCCATATCATATACCACCACTTTTTCCCATCAAGTCATTTG [2150]

Orangutan TTCACAAAACCCATATCATATACCACCACTTTTTCCCATCAAGTCATTTG [2150]

Howler\_Monkey TTTACAGAACCCATATCATATGTCACCGCTTATTCCCACCAGGTCATTTG [2147]

Rhesus GTTACAAAACCCATACCATATACCACCACTTTTTCCTGTCAAGTCATTTG [2144]

Tree\_Shrew TTCACAAAACCCGTATCATATGCCATTACTTTATCCTGTCAAGTCACCTA [2039]

Flying\_Lemur TTTACAAAACTCATGTCATATGTCATCACTTTCCCCCATCAGGTCATCTG [2156]

Mole CTTACAAAACCCATATCTTATTCCACCACTTTCTTCAATTCAGTCATCTG [2147]

Hedgehog TTTACAAAACCTATATCATATACCAACACTTCCTACCATCATGTCATCTA [2126]

Pangolin TTCACAATACCCATATCATATATCATCAATTTCTCCCATCAGGTCATCTG [2132]

Horse TTCACAAAACCCATATTATATACCATCACTTTCTCCCATCAGGTCATCTG [2156]

Rhino TTCACAAAACCTGTGTTATATACCATCACTTTCTCCCATCAGGTCATCTG [2156]

Llama TTTACAAAACCCATATCTTATAACATCACTTTCTCCTAACAGGTCATCTG [2141]

Cow TTCAGAAAAACCAAATCTTATACCATCACTTTCTCCCATCAAGTCATCTG [2132]

Pig TTCACAAAACCCATATGTCATACCATCCCTTTCTCCCATCAGGTCGTCTG [2144]

Hippo TTCACAAAACCCATATGTTATACCATCACTTTCTCCCATCAGGTCATCTG [2108]

Sperm\_Whale TTCACAAAACCCATATCTTATACCATCACTTTCTCCCATCAGGTCATCTG [2141]

Humpback\_Whale TTCACAAAACCCATATCTTATACCATCACTTTCTCCCATCAGGTCATCTG [2135]

Cat TTCAAAAAACCCTTATCATATACCACCACTTTCTCCCATCAGATCATCTG [2153]

Dog TTCCCAAAACCCTTATCATATACCACCACTTTCTCCCATCAGATCATGTG [2156]

Dugong TTCACAAAATCCAGATCAAATGCCATTGCTTTCTCCCATCAGGGCATCTG [2129]

Manatee TTCACAAAATCCAGATCAAATGCCATTGCTTTCTCCCATCAGGGCATCTG [2129]

African\_Elephant CTCACAAAACCCAGATCAAATACCATCACTTTCTCCCACCAGGTCATCTG [2126]

Asian\_Elepphant CTCACAAAACCCAGATCAAATACCATCACTTTCTCCCACCAGGTCATCTG [2126]

Rock\_Hyrax TGCACAAAACCCGGATCAGATGCCATCATCTTCTCCCATCAGATCATCTG [2108]

Tree\_Hyrax TGCACAAAACCCAGATCAGATGCCATCATCTTCTCCCATCAGATCATCTG [2126]

Madagascar\_Hedgehog TGTGCAGACCTCGGAGC?TGCCCCACCACTCGCTCCCATCAGGTCATCTG [2093]

Tenrec TTTGCAAACCACAGAGCATACCCCACCACTCTCTCCCATCAGATCCTCCC [2093]

Golden\_Mole TTCACAAAGCCCAGATCAAACAGCATTGCTTTCT---------------- [2107]

Long\_Eared\_Elephant\_Shrew GTCACATAGCCCAGATCAGACACCGTCACTTTCTCCCACCAAGGTTCCTG [2024]

Giant\_Elephant\_Shrew GTCACATAGCCCAAACCAGACACCATCATTTTCTCCCACCAAGCCATCAG [2108]

Aardvark CTCACAAAACCTGGATCAGACACCATCACTTTCTCCCACTAGGTCATCTG [2114]

Wombat TTCGCAAGTTCCTGATCAAAAACCATCAGTTTCTCCAGCAAGGTCATCTG [2168]

[ 2310 2320 2330 2340 2350]

[ . . . . .]

Nine\_Banded\_Armadillo TT---AAAACTAAATGTAAGGAAAAC---CTGTCAGAGGAAAAGTTTGAG [2176]

Hairy\_Armadillo TT---AAAACTAAATGTAAGGAAAAC---CTGTCAGAGGAAAAGTTTGAG [2185]

Anteater TT---AAAACTAAATATAAGAAAAAC---TTGTCAGAAGAAAGGTTTGAG [2188]

Sloth TT---AAAAGTAAATTTAAGGAAAAC---CTGTCAGAGGAAAGATTTGAG [2185]

Flying\_Squirrel TT---AACACTAAATGTAGGAGAAAC---CTATCAGAAGAAAAGTTTGAG [2245]

Mouse TA---AAAACTGACAATAGGAAACCT---CTGACAGAGGGACGATTTGAG [2152]

Rat TA---AAAACTGACAATAGAAAAACT---CTGACAGAGGG?CGATTTGAG [2161]

Old\_World\_Porcupine TT---AAAACTCCATGTAAGAAAACC------------------------ [2119]

Jackrabbit TT---AAAGCCACACGCCAGGTACAC---CTGTCAGGGGAAAGGTCTGAG [2170]

Flying\_Fox TT---AAAACTACATGTAAGAAAAAT---CTGTCAGAGGAAAAGTTTGAA [2152]

Dog\_Faced\_Fruit\_Bat TT---AAAACTATATGTAAGAAAAAT---CTGTCAGAGGAAAAGTTTGAA [2167]

False\_Vampire\_Bat TT---AAAACTATATGTAAGGAAAAC---CTGTCAGAGGAAAACCTTGAG [2170]

Leaf\_Nosed\_Bat TT---AAAACTGTATGTAAGAAAAAC---CTGTCAGAGGAAAACTTGGAG [2191]

Free\_Tailed\_Bat TT---AAAACTATAAATAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2167]

Little\_Brown\_Bat TT---AAAACTGTAAGTAAGAAAAAC---CTGTCAAAGGAAAAGTTTGAG [2176]

Tomb\_Bat TT---AAAACGATAAGTAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2182]

Round\_Eared\_Bat TT---AAAACTACAAGTAAGAAGAAC---CTGTCAGAGGAGAAGTGTGAG [2170]

Human TT---AAAACTAAATGTAAGAAAAAT---CTGCTAGAGGAAAACTTTGAG [2194]

Galago AT---AAAACTAAATGTAATACAAAC---CTGTTAGAGGAAAGGTTTGAA [2194]

Chimpanzee TT---AAAACTAAATGTAAGAAAAAC---CTGCTAGAGGAAAACTTTGAG [2194]

Gorilla TT---AAAACTAAATGTAAGAAAAAC---CTGCTAGAGGAAAACTTTGAG [2194]

Orangutan TT---AAAACTAAATGTAAGAAAAAC---CTGCTAGAGGAAAACTCTGAG [2194]

Howler\_Monkey TT---AAAACTAAATGTAAGAAAAAC---CTGCTAGAAGAAAACTCTGAG [2191]

Rhesus TT---AAAACTAAATGTAACAAAAAC---CTGCTAGAGGAAAACTCTGAG [2188]

Tree\_Shrew TT---ATAACTAAAAGTAAGAAAAGC---CTGTCAGAGGAAGGGTTTGAG [2083]

Flying\_Lemur TT---AAAATTAAATGTAAGAAGAAC---CTGTCAGAGGAAAGGTTTGAG [2200]

Mole TT---AAAAGTGCTTGTAAGAAAAAC---CTGGCGGAGGAAAAGCTTGAG [2191]

Hedgehog CT---AAGAGTATATGCAAGAAAAAC---CTGTCTGAGGAAAA------- [2163]

Pangolin TT---AAAATAATATGTAAGGAAAAC---CTGTCAGAGGAAAAGTCTGTG [2176]

Horse TT---AAAACTGTATGTCAGAAAAAC---CTGCCAGAGGGAAAGCTTGAG [2200]

Rhino TT---AAAACTATATGTAAGAAAAAT---GTGTCAGAGGAAAAGCTTGAG [2200]

Llama TT---AAAACTATGTGTAAGAAAAAC---CCGTCCGAGGAAAAGCTTGAG [2185]

Cow TT---AAAACCATATGTAAGAAAAGC---CCATCAGAG---AAGTTTGAG [2173]

Pig TT---AAAACTATATGTAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2188]

Hippo TT---AAAACTATACGGAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2152]

Sperm\_Whale TT---AAAACTATATGTAAGAAAAAC---CTGTCAGAGGAAAAGTTTGCG [2185]

Humpback\_Whale TT---AAAACTATATGTAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2179]

Cat TT---AATGCTGTATGTAAGAAAAAC---CTGTCAGAGGAAAAGTTTGAG [2197]

Dog TT---AAAACTCTATGTCAGGAAAAC---CTGTCAGAGGAAAAGTTTGAG [2200]

Dugong TT---AAA------AGTAAGAAAAAC---TTGTCAGAAGAAAGGTTTGAG [2167]

Manatee TT---AAA------AGTAAGAAAAAC---TTGTCAGAAGAAAGGTTTGAG [2167]

African\_Elephant TT---AAAACTAAATGTAAGACAAAC---CTGTTGGAAGAAAGGTTTGAG [2170]

Asian\_Elepphant TT---AAAACTAAATGTAAGACAAAC---CTGTTGGAAGAAAGGTTTGAG [2170]

Rock\_Hyrax TT---AACTCTAAGTGTAACAAAAAC---CTGTCAGAAGAGCGATTTAAG [2152]

Tree\_Hyrax TT---AACTCTAAGTGTAACAAAAAC---CTGTCAGAAGAGCGATTTAAG [2170]

Madagascar\_Hedgehog TT---AACAGTGAACGTAAGGAAAGA---CTG---------------GAG [2122]

Tenrec TT---AAAAGTAAATGTAAGGAAAAG---CTGTCAGAAGAAAGATTGGAG [2137]

Golden\_Mole -----------AAATGTAAGAAAAAC---TTGTCTGAAGAAAGATTTGAA [2143]

Long\_Eared\_Elephant\_Shrew TT---AAAATGACATGGAAGAAAAACCACCTGTCAGAAGAAAACTTTGAG [2071]

Giant\_Elephant\_Shrew TT---AGAACCAAATATAAGCAATTCTACTTGTCAGAAGAAGAGTTGGAG [2155]

Aardvark TT---AAAGCTAAATGTAAGACAAAT---CTGTCCAAAGAAAGATTTGAG [2158]

Wombat CTAGTAAAACTATAAATACAAAAAAC---CTCCTGGAGGAAAGGCTTGAT [2215]

[ 2360 2370 2380 2390 2400]

[ . . . . .]

Nine\_Banded\_Armadillo GAACTTACAGTGTCACTTGAAAGAACAATGGTAAATGAGAACATCATTCA [2226]

Hairy\_Armadillo GAACTTACAATATCACTTGAAAGAACAGTGGGAAATGAGAACATCGTTCA [2235]

Anteater GAACATACAGTGTCACTTGATAGAGCAGTGGGAAATGAGAGCATCATTCA [2238]

Sloth GAACATACAGTATCACTTGAAAGAGCAGTGGGAAAGGAGCACATCATTCA [2235]

Flying\_Squirrel AAAGATTCAAGGTCACCTAAAGAAGCGGTGGGATATAAGAGAATCATTCA [2295]

Mouse AGACATACATCATCAACTGAGATGGCGGTGGGAAATGAGAACATTCTTCA [2202]

Rat AAACAT---------ACTGAAAGGGG?ATGGGAAATGAGACTGCTGTTCA [2202]

Old\_World\_Porcupine ---CGTTCCTCATCACCTGGAGAAGCCACAGGTAACCAGATCATCCTTCA [2166]

Jackrabbit GAGCATTCCGTGTCATCTGAAAGAGCAGTGGGAAGCGAGAGCATCATTCA [2220]

Flying\_Fox GAACATTCAATATCCCCTGAAAGAACAATAGGAAATGAGACCATCATTCA [2202]

Dog\_Faced\_Fruit\_Bat GAACATTCAATATTCCCTGAAAGAGCAATAGGAAATGAGACCATCATTCA [2217]

False\_Vampire\_Bat GCATATTTGGTGTCACCTGAAAGAGCAATGGGAAATGAGAGCATTGTTCA [2220]

Leaf\_Nosed\_Bat GAATATCCAGTGTCACCTGAAAGAGCAATGGGAAATGAGAGCATCATTCA [2241]

Free\_Tailed\_Bat GAACATTCAGTGTCACCTGAAAGAGCAATGAGAAATGAGAAT---ATTCT [2214]

Little\_Brown\_Bat GAACATTTAGTGTCACCTGAAAGAGCAATGGGAAATGAGAAC---ATTCA [2223]

Tomb\_Bat AAACAGTCAGTGTCACCTGAAAAAGCAATGGGAAATGAGAACATCATTCA [2232]

Round\_Eared\_Bat GAACATTCAGTGTCACCTGCCAGAGCCGTGGGACGTGAGAACATCATTCA [2220]

Human GAACATTCAATGTCACCTGAAAGAGAAATGGGAAATGAGAAC---ATTCC [2241]

Galago GAACATTCAGTGTTACCTGAAAAAGCAGTAGGAAACGAGAACACCGTTCC [2244]

Chimpanzee GAACATTCAATGTCACCTGAAAGAGAAATGGGAAATGAGAAC---ATTCC [2241]

Gorilla GAACATTCAATGTCACCTGAAAGAGAAATGGGAAATGAGAAC---ATTCC [2241]

Orangutan GAACATTCAATGTCACCTGAAAGAGAAATGGGAAACGAGAAC---ATTCC [2241]

Howler\_Monkey GAACATTCAATGTCACCTGAAAGAGCAATGGGAAACAAGAACATCATTCC [2241]

Rhesus GAACATTCAGTGTCACCTGAAAGAGCAGTGGGAAACAAGAACATCATTCC [2238]

Tree\_Shrew GAACAGGCAATGTCACTTGAAAGAGCAATGGAAAATGAGAACATCATTCA [2133]

Flying\_Lemur GAACATTCAGTGTCACCTGAAAGAGCAATGGCAAACAAGAGAATCATTCA [2250]

Mole GAACACTCATGGTCACCCGAAAGAGAAACAGGAAACGGGAGCATCATTGA [2241]

Hedgehog -----TTCACTGTCGCCTGAAAGAGCAGTGACAAACAAAAGCATCATCCA [2208]

Pangolin GAACATTCGATGTCATTGGAAAAAGCAGTGGGAAACAAGAGCATCATTCA [2226]

Horse GAACAGTCACTGTCACCTGAAAGAGCAATGGGAAATGAGAGCATTGTTCA [2250]

Rhino GAACATTCAGTGTCCCCTGAAAGAGCACTGGGAAACAAGAGCGTCATTCA [2250]

Llama AAATGTGTCATATCACCTAAAAGAGTGATGGGAAACGAGAGCACCATTCA [2235]

Cow GAACCTGTAACGTCACCTGAAAAAACATTGGGGAGTGAGAGCATCATTCA [2223]

Pig GAACCTAAAATGTCACCCGAAAGAACAATGGGAAACGAGAGCATCATTCC [2238]

Hippo GAACCTGTAGTGTCAGCTGAAAGAGCAATGGCAAATGAGAGCATCCTTCA [2202]

Sperm\_Whale GAACCTGTAATGTCACCTGAAAGAGCAATGGAAAACGAGAGCATCATTCA [2235]

Humpback\_Whale GAACCTGTAAGGTCACCTGAAAGAGCAATGGAAAACGAGAGCATCATTCA [2229]

Cat CAGCGTTCAATGTCACCTGAAAGAGCAGTGGGAAATGAGAGCGTCATTCA [2247]

Dog CAACATTCAATGTCACCCGAAAGAGCAGTGGGAAATGAGAGAGTCATTCA [2250]

Dugong GAACATACAATATCACTTGAAAGAGCAGTAGGAAATGAGAGCATCGTTCA [2217]

Manatee GAACATACAATATCACTTGAAAGAGCAGTAGGAAATGAGAGCATCGTTCA [2217]

African\_Elephant GAACATACAATATCACTTGAAAGAGCAATGAGAAATGAGAACGTCATTCA [2220]

Asian\_Elepphant GAACATACAATATCACTTGAAAGAGCAATGAGAAATGAGAACGTCATTCA [2220]

Rock\_Hyrax GAACATAAAATATTACTTGAAAGAACAACAGGAAATGAAACCATTGTCCA [2202]

Tree\_Hyrax GAACATAAAATATTATTTGAAAGAACAACAGGAAATGAAACCATTGTCCA [2220]

Madagascar\_Hedgehog GATCATGCAGAATCACTTGAAAGAGCCTCAGAAAACGAGAGTATCATTCC [2172]

Tenrec GATCAGGCAGAATCCCTTGAAAGAGCCTCGGGGAATGAGAGCATCATTCA [2187]

Golden\_Mole GAACGTGCAGTATCACTCGAAAAAGCAGTGGGAAATGAGAGCATCATTCA [2193]

Long\_Eared\_Elephant\_Shrew GAACATACAATA------------ACAATGGGAAATGAGAGCATCGTTTA [2109]

Giant\_Elephant\_Shrew GAACATGCACTATCACCTGAAAGAGCAATGGAAAATGAGAGTTTCATTCA [2205]

Aardvark CAACAGAAAATATCACATGAAAGAGTAATGGGAAATGAGAGCACCATTCA [2208]

Wombat GAACAGACCACATGTCCTGAAACAGCTATGGGAAATGAAAGCTTAGCCCA [2265]

[ 2410 2420 2430 2440 2450]

[ . . . . .]

Nine\_Banded\_Armadillo AAGTACAGTAAGCACAATTAGCCACAGTAACATTAGAGAAAACACTTTTA [2276]

Hairy\_Armadillo AAGTACAGTAAGCACAATTAGCCACAATAACATTAGAGAAAACGCTTTTA [2285]

Anteater AAGTACAGTAAGCACAATTAGCCAAAATAACATTAGAGAAAGCACTTTTA [2288]

Sloth AAGGACAGTGAGTCCAATTAGCCAAAATAACATTAGAGAAAGCGCTTTTA [2285]

Flying\_Squirrel AAGTACAGTGAGCACAATTAGCCAAAATAACATTAGACAAAGTGCCTTTA [2345]

Mouse GAGTACAGTGCACACAGTTAGCCTGAATAAC---AGAGGAAATGCTTGTC [2249]

Rat AAGTACAATACACACAATTAGTCTAAATAAC---AGAGGAGATGCTTGTC [2249]

Old\_World\_Porcupine GAGCACC---------------------------AGCCATCGCGCTTGCA [2189]

Jackrabbit AAGCACAGTGAGCACAATTAGCCAAGAGTACATTAGAGAAAGTGCTTTGA [2270]

Flying\_Fox AAGTACAGTGGGCACAATTAGCCAAAATAACATTAGAGAAAGCACTTTTA [2252]

Dog\_Faced\_Fruit\_Bat AAGTACAGTGGGCACAATTAGCCAAAATAACATTAGAGAAAGCACTTTTA [2267]

False\_Vampire\_Bat AAGTACAGTGAGCACAGTTAGCCAAAGTAACATTAGAGAAAGCACTTTTA [2270]

Leaf\_Nosed\_Bat AAGTACAGTGAGCACAATTAGCCAAAATAACATTAGAGAAAGCACTTTTA [2291]

Free\_Tailed\_Bat AAGTACAGTGAGCCCAATTAGCCTAAATAAC---AGAGAAAGCACTTTTA [2261]

Little\_Brown\_Bat AAGTACAGTGAGCCCAATTAGCCTAAGTAACATTAGAGAAAGCGCTTTTA [2273]

Tomb\_Bat AAGTACAGTGAGCACAATTAGCCAAAATAATGTTAGAGAAAGAGCTGTTA [2282]

Round\_Eared\_Bat GAGTACAGCGGGCACTCCTAGCCAGAACAAAACCAGGGAAAGTGCCGCCA [2270]

Human AAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAATGTTTTTA [2291]

Galago AAGTACAATGAATACAATTAACCAAAATAAC---AGAGAAAGTGCTTATA [2291]

Chimpanzee AAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAATGTTTTTA [2291]

Gorilla AAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAATGTTTTTA [2291]

Orangutan AAGTACAGTGAGCATAATTAGCCGTAATAACATTAGAGAAAATGTTTTTA [2291]

Howler\_Monkey AAGTACAGTGAGCACAATTAGCCATAATAAC---AGAGAAAATGCTTTTA [2288]

Rhesus AAGTACAGTGAGCACAATTAGCCATAATAACATTAGAGAAAATGCTTTTA [2288]

Tree\_Shrew AAGTACAGTGAGCACAATTAGCCAAGATAACATTAGAGAAGGTGCTTTTA [2183]

Flying\_Lemur AAGTACAGTGAACACAATTAGCCAAAATAACATTAGAGACAGTGCTTCTA [2300]

Mole AAGTACAGTGAGCAGGGTTAGCCAAAATAACAATAGAGAAAATGCTTTTA [2291]

Hedgehog AAGTACAGTGAACACCATTAGCCAGACTAATGCCAGTGAAAATGCTCTTA [2258]

Pangolin AAGTACTGTGAGCACAATTAGCCAAAATAACATTAAAGGAAACAATTTTA [2276]

Horse AAGTACAGTGAGCACAATTAGCCAAAATAACATTAGAGAAAGCACATTGA [2300]

Rhino AAGTACAGTGAGCACAATTAGCCAAAATAACATTAGAGAAAGCACTTTTA [2300]

Llama AAGTATAGTGAGTGCAATGAGCCAAAATAACATTAGAGAAAGCACTTTTA [2285]

Cow AAGTGCAGTGAGCACAATCAGCCAAAATAACATTCAAGAAAGCACTTTTA [2273]

Pig AAATACAGAGAGCACAGTTAGCCAAAATAACATTCAAGAGAGAACTTTTA [2288]

Hippo AAGTACAGTGAACACAATTAGCCAAAATAACATTCGAGAAAACACTTTTA [2252]

Sperm\_Whale AAGTACAGTGAGCACAATCAGCCAAAATAACATTCGAGAAAGCACTTTTA [2285]

Humpback\_Whale AAGTACAGTGAGCACAATTAGCCAAAATAACATTCGAGAAAGCACTTTTA [2279]

Cat AAGTACAGTGAACACAATTAGCCAAAATAACATTAGAGAAAACACTTTTA [2297]

Dog AAGTACAGTGAGCACAATTAGCCAAAATAACATTAGAGAATGTGCTTCTA [2300]

Dugong AAGTACAGTGAGCACAGTTAGCCAAAATGACATTAAGGAAAGTGCTTCTA [2267]

Manatee AAGTACAGTGAGCACAGTTAGCCAAAATAACATTAAGGAAAGTGCTTCTA [2267]

African\_Elephant AAGTACAGTGAGCACAGTTAGCCAAAATAACATTAGGGAAAGTGCTTCTA [2270]

Asian\_Elepphant AAGTACAGTGAGCACAGTTAGCCAAAATAACATTAGGGAAAGTGCTTCTA [2270]

Rock\_Hyrax AAGTACAGTGAGCACAGGTAGCCAAGATAACATTAGGGGAAGTGCTTCGA [2252]

Tree\_Hyrax AAGTACAGTGAGCACAGGTAGCCAAGATAACATTAGGGGAAGTGCTTCGA [2270]

Madagascar\_Hedgehog AAGTACAGTGAGCACAATTAGCCAAAATACCCCGAGAGAAAATGCTTTCA [2222]

Tenrec AAGTACAGTGAGCACAATTAGCCAAAATACGCTTAGAGAAAATGCTTTTA [2237]

Golden\_Mole AAGTACAGTGAGCACAGTTAGCCACAATAACATTAGGGAAAGGGCTTTTA [2243]

Long\_Eared\_Elephant\_Shrew TAGTCCAGTGAGCACAGTTAGCCAAAGTAATGTTAAGGGATATGCT---- [2155]

Giant\_Elephant\_Shrew CAGTACAGTGAACGCAGTTAGCCAAAATAACCTTAGGGGAAGTGTCTTTA [2255]

Aardvark GAGTACAGTGGGCACAGTTAGCCAAAGTAACATTAGGGAAAGTGCTTTTA [2258]

Wombat AAGCAGCTTAAGTCCAGTAAGCCAAAGTAATAGCAGAGAATATATTTCTA [2315]

[ 2460 2470 2480 2490 2500]

[ . . . . .]

Nine\_Banded\_Armadillo AAGAAGCCAGCTCAAGCAGTATTAATGAAGTAGGGTCC------------ [2314]

Hairy\_Armadillo AAGAAGCCAGCTCAAGCAGTATTAATGAAGTAGGTTCT------------ [2323]

Anteater AAGAAGCCAGCTCAAGCAGTATTAATGAAGTAGGTTCCAGTATTAATGAA [2338]

Sloth AAGAAGCCAGCTCAAGCAGTATCAATGAAGTAGGTTCCAGTGTTAATGAA [2335]

Flying\_Squirrel AAGAAGCGAACTCAGGCAGTATTAATGAAGTAGGCTCTAGTACTAATGAA [2395]

Mouse AAGAAGCCGGCTCGGGCAGTATTCATGAAGTATGTTCC------------ [2287]

Rat TAGAAGCCAGCTCAGGCAGTGTTATTGAAGTACATTCC------------ [2287]

Old\_World\_Porcupine GAGAAGCCAGCTTGGGCAGTGGGAACGAAGGGGGCTCC------------ [2227]

Jackrabbit AAGGATTCAGCTCAAGCAGTATTAATGAAGGGGGCTCTAGTGCTAACGAA [2320]

Flying\_Fox AAGAAGGCAGCTCAAGCAGTATTTATGAAGCAGGTTCCAGTACTAACGAA [2302]

Dog\_Faced\_Fruit\_Bat AAGAAGGCAGCTCAAGCGGTATTTATGAAGCAGGTTCCAGTACCAATGAA [2317]

False\_Vampire\_Bat AAGAGGGCAGCTCCAGCAATATTTATGAAGCAGATTCCAGTGCTAATGAA [2320]

Leaf\_Nosed\_Bat AAGAAAGCAGCTCAAGCAAT?TTTATGAAGCAGATTCCAGTACTAATGAA [2341]

Free\_Tailed\_Bat AAGAAGGCAGCTCAAGCAGTACTAATGAAGTAGGCTCTAGTACCAATGAA [2311]

Little\_Brown\_Bat AAGAAAGCAGCTCAAGCAGTACTAATGAAGGGGGCTCTAGTATCAATGAA [2323]

Tomb\_Bat AAGAAGGCAGCTCAAGCAGTACTAACGAAGTAGGCTCTAGTATCGATGAA [2332]

Round\_Eared\_Bat GAGAAGGCAGCTCGAGCGGCACTAACGAAGTAGGCTCC------------ [2308]

Human AAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAA [2341]

Galago AAGAAGCCAGTTCAAGCAGTATCAATGAAGTAAGCTCGAGTACTAATGAA [2341]

Chimpanzee AAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAA [2341]

Gorilla AAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAA [2341]

Orangutan AAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAA [2341]

Howler\_Monkey AAGAAACCAGCTCAAGCAGTATTTATGAAGTAGGTTCCAGTACTAATGAA [2338]

Rhesus AAGAAGCCAGCTCGAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAA [2338]

Tree\_Shrew AAGAAGCCAGCTCAAGCAGTATTAATGAAATAGGTCCTAGTACTAATGAA [2233]

Flying\_Lemur AAGAAGCCAGCTCAAGCAGTATTAATGAAGTAGGTTCCAGTACTAATGAA [2350]

Mole AGGAAGTCAGCTCAAGTAGTATTAACGAAGTAGGTTCCAGTACTAACGAA [2341]

Hedgehog AAGATGTCAGTTCAAGCAGTGTTAATGATATGGGTTCC------------ [2296]

Pangolin AAGATGGCAGCTCCAGCAGCATTAATGAAATAGGTTCCAGTACTAATGAA [2326]

Horse AAGAAGTCAGCTCAAGC---------------------AGTATTAATGAA [2329]

Rhino AAGAAGTCGGCTCAAGCAGTATTAATGAAGTAGATTCCAGTACTAATGAA [2350]

Llama AAGAAGTCAGCTCAAGCAGTGTCAATGAAGTAGGTTCCAGTACTAATGAA [2335]

Cow AAGAAGTCAGCTCAAACAGTGTAAATGAAGTAGGTTCCAGTACTAATGAA [2323]

Pig AAGAAGGCAGCTCAGGCAGTCCTAATGAAGTCGGGTCCAGTACCAACGAA [2338]

Hippo AAGAAGTCAGTTCAAGCAGTATTAATGAAGTAGTTTCCAGTACTAATGAA [2302]

Sperm\_Whale AAGAAGTCAGCTCAAGCAGTACTAATGAAGTAGGTTCCAGTACCAATGAA [2335]

Humpback\_Whale AAGAAGTCAGCTCAAGCAGTATTAATGAAGTAGGTTCCAGTACTAATGAA [2329]

Cat AAGAAGTTAGCTCAAGCAGTGTTAATGAAGTAGGTTCCAGTGCTAATGAA [2347]

Dog AAGAAGTCGGCTCAAGCAGTGTTAATGAAGTAGTTTCCAGTACTAATGAA [2350]

Dugong AAGAAGCCAGCTCAAGC--------------------------------- [2284]

Manatee AAGAAGCCAGCTCAAGC---------------------AGTATTAATGAA [2296]

African\_Elephant AAGAAGCCAGCTCAAGC---------------------AGTATTAATGAA [2299]

Asian\_Elepphant AAGAAGCCAGCTCAAGC---------------------AGTATTAATGAA [2299]

Rock\_Hyrax AAGAAACCAGCTCAAGC--------------------------------- [2269]

Tree\_Hyrax AAGAAACCAGCTCAAGC--------------------------------- [2287]

Madagascar\_Hedgehog AAGGAACCAGCTCAAGC--------------------------------- [2239]

Tenrec AAGGAACCAGCTCAAGC--------------------------------- [2254]

Golden\_Mole AGGAAACCAGCTCAAGT---------------------AGTACTAATGAA [2272]

Long\_Eared\_Elephant\_Shrew --CAGGCCAGTTCAAGCAGTATTAACGAAGTAGGTTCCAGTACTAATGAA [2203]

Giant\_Elephant\_Shrew AAGAAGGCAGCTCAAGCAGTATTAATGAAGCAGGATCCAGTACTAATGAA [2305]

Aardvark AAGAAGCTAGCTCAAGCAGTATTAATGAGGTAGGTTCC------------ [2296]

Wombat AAGCAACTGACTTAAATAGATTTATCAGCATAGGCTCT------------ [2353]

[ 2510 2520 2530 2540 2550]

[ . . . . .]

Nine\_Banded\_Armadillo -------------------------------------------------- [2314]

Hairy\_Armadillo -------------------------------------------------- [2323]

Anteater GTGGGTTCCAGTATTAATGAAGTGGGTTCC-------------------- [2368]

Sloth GTAGGTTCCAGTGTTAATGAAGTAGGTTCC-------------------- [2365]

Flying\_Squirrel GTAGGCTCCAGTATTAATGAAGTAGGTTCC-------------------- [2425]

Mouse -------------------------------------------------- [2287]

Rat -------------------------------------------------- [2287]

Old\_World\_Porcupine -------------------------------------------------- [2227]

Jackrabbit GTATGCTCCAGTGTGAATGAAGTAGGATCC-------------------- [2350]

Flying\_Fox CTAGGCTCTAGTGTCAATGAAGTAGGTTCC-------------------- [2332]

Dog\_Faced\_Fruit\_Bat CTAGGCTCTAGTGTCAATGAAGTAGGTTCC-------------------- [2347]

False\_Vampire\_Bat GTAGGCTCTAGTATCAGTGAGGTAAGTTCC-------------------- [2350]

Leaf\_Nosed\_Bat GTAGGCTCTAGTATCAATGAAGTAGGTTCC-------------------- [2371]

Free\_Tailed\_Bat GTAGGTTCC----------------------------------------- [2320]

Little\_Brown\_Bat GTAGGTTCC----------------------------------------- [2332]

Tomb\_Bat GCAGGTTCC----------------------------------------- [2341]

Round\_Eared\_Bat -------------------------------------------------- [2308]

Human GTGGGCTCCAGTATTAATGAAATAGGTTCC-------------------- [2371]

Galago GTGGGCTCCAGTGTTAACGAAGTAGGCCCC-------------------- [2371]

Chimpanzee GTGGGCTCCAGTATTAATGAAGTAGGTTCC-------------------- [2371]

Gorilla GTGGGCTCCAGTATTAATGAAGTAGGTTCC-------------------- [2371]

Orangutan GTGGGCTCCAGTATTAATGAAGTAGGTTCC-------------------- [2371]

Howler\_Monkey GCAGGTTCTAGTACTAATGAAGTAGGCTCCAGTATTAATGAAGTAGGTTC [2388]

Rhesus GTGGGCTCCAGTATTAATGAAGTAGGTTCC-------------------- [2368]

Tree\_Shrew GGAAGCTCTAGTATTAATGAGGTAGGTTCC-------------------- [2263]

Flying\_Lemur GTAGGCTCCAGTATTAATGAAGTAGGTCCC-------------------- [2380]

Mole GCTGACTCTAGTATTAATGAAGTAGGTTCC-------------------- [2371]

Hedgehog ---------AGTACTAATGAAGTAGGTTCC-------------------- [2317]

Pangolin GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2356]

Horse GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2359]

Rhino GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2380]

Llama GTAGGTTCTAGTATTAATGAAGTAGGTTCC-------------------- [2365]

Cow GTAGGCTCTAGTGTTAATGAAGTAGGTTCC-------------------- [2353]

Pig GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2368]

Hippo GTAGGCTCTAGTATCAGTGAAGTAGGTTCT-------------------- [2332]

Sperm\_Whale GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2365]

Humpback\_Whale GTAGGCTCTAGTATTAATGAAGTAGGTTCC-------------------- [2359]

Cat GTAGGCTCTAGCATTAATGAAGTAGGTTCC-------------------- [2377]

Dog GTAGGCTCTAGTGTTAATGAAGTAGGTTCC-------------------- [2380]

Dugong ---------AGTATTAATGAAGTAGGTTCT-------------------- [2305]

Manatee GTAGGTTCCAGTGTTAATGAAGTAGGTTCT-------------------- [2326]

African\_Elephant GTATGTTCCAGTATTAATGAAGTAGGTTCT-------------------- [2329]

Asian\_Elepphant GTATGTTCCAGTATTAATGAAGTAGGTTCT-------------------- [2329]

Rock\_Hyrax ---------AGTATTAATGAAGTAGGTTCT-------------------- [2290]

Tree\_Hyrax ---------AGTATTAATGAAGTAGGTTCT-------------------- [2308]

Madagascar\_Hedgehog ---------AGTCTTAATGAAGTAGGTTCT-------------------- [2260]

Tenrec ---------AGTCTTAATGAAGTAGGTTCT-------------------- [2275]

Golden\_Mole GTAGGTTCCAGTATTAATGAAGTAGGTTCT-------------------- [2302]

Long\_Eared\_Elephant\_Shrew GGAGGTTCCAGTATTAATGAAGTAGGTTCT-------------------- [2233]

Giant\_Elephant\_Shrew GTAAGTTCCAGTATTAATGAAGTATGTTCT-------------------- [2335]

Aardvark ---------AGTGTTAATGAAATAGGTTCT-------------------- [2317]

Wombat -------------------------------------------------- [2353]

[ 2560 2570 2580 2590 2600]

[ . . . . .]

Nine\_Banded\_Armadillo -AGTGATGAGAACATTCAAGCAGAAGTAGGTAGAAACAGAGCACCTAAAT [2363]

Hairy\_Armadillo -AGTGGTGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGCACCTAAAT [2372]

Anteater -AGTGGTGAGAACGTTCAAGCAGAGCTAGGTAGAAACAGA---CCTAAGC [2414]

Sloth -AGTGGTGAGAACACTCAAGCAGAGCTAGGTAGAAACAGAGGATCTAAAT [2414]

Flying\_Squirrel -AGTGGTGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGACCCAAAT [2474]

Mouse -ACTGGTGACTCCTTCCCAGGACAACTAGGTAGAAACAGAGGGCCTAAGG [2336]

Rat -ACTGGTGAAAACGTCCAGGGGCAACTAGATAGAAACAGAGGGCCTAAGG [2336]

Old\_World\_Porcupine -AGTGGGGAGCACATTCAAGCAGAACCCAGTAGACACCAAGAG------- [2269]

Jackrabbit -AGTGGTGAAAACATGCAAGCACAACCAGGCAGAAGCAGAGCACCTGAGT [2399]

Flying\_Fox -AGTGGTGAAAACATTCAAGCAGAACTAAGTAGAAACAGAGGACCACAAT [2381]

Dog\_Faced\_Fruit\_Bat -AGTGGTGAAAACATTCAAGCAGAACTAAGTAGAAACAGAGGACCAAAAT [2396]

False\_Vampire\_Bat -AGTGGTGAGAACATTCAAACAGAACTGGGTAGAAACCAAGGACCAAAAT [2399]

Leaf\_Nosed\_Bat -AGTGGTGAAAACATTCAAGCAGAACTCGGCAGAAACAGAGGACCGAAAT [2420]

Free\_Tailed\_Bat -AGTGGTGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGATCAAAAA [2369]

Little\_Brown\_Bat -AGTGGTGAAAACATTCATGCAGAACTAGATATAAACAAAGGATCAAAAT [2381]

Tomb\_Bat -AGTGGTAAAAACATTGGAGCAGAACTAGATAGAAACAGAGGATCAAAAT [2390]

Round\_Eared\_Bat -AGTGGTGAAAACGGTCAAGCAGAGCCAGGCACAAACAGAGCATCAAAAT [2357]

Human -AGTGATGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGGCCAAAAT [2420]

Galago -AGTAGTGAAAACATTCAAGCAGAACTAGATAAAAACAGAGGACCTAAGT [2420]

Chimpanzee -AGTGATGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGGCCAAAAT [2420]

Gorilla -AGTGATGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGGCCAAAAT [2420]

Orangutan -AGTGATGAAAACATTCAAGCAGAACTAGGTAGAAGCAGAGGGCCAAAAT [2420]

Howler\_Monkey CAGTGATGAAAACATTCAAGCAGAGCTAGGTAGAAACAGAAGGCCAAAAT [2438]

Rhesus -AGTGATGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGGCCAAAAT [2417]

Tree\_Shrew -AGTGGTGAAAACATTCAAGCAGAACTAGGTAAAAAGAGAGGATCCAAAT [2312]

Flying\_Lemur -AGTGGTGAAAACATTCAAGCAGAACTAGGTAGAAACAGAGGACCTAAAT [2429]

Mole -AGTGGTGAAAATATTCAAGCTGAACTAGATGGAAGCAGAGGACCTAAAT [2420]

Hedgehog -AGTAGTGAAAACATTCAAGCTAAACTATGTAGAAACAGAGGACCCAGAT [2366]

Pangolin -AGTGGTGAAAAAATTCAAGCAGAACTAGGTAGAAACAGAGGACCTAAAT [2405]

Horse -AGTGGTGAACACATTCAAGCAGAACTAGGCAGAAACAGAGGACCTAAAT [2408]

Rhino -AGTGGTGAAAACATTGAAGCAGAGCTAGGCAGAAACAGAGGACCTAAAT [2429]

Llama -AGTGGCGAAAACATTCAAGCAGAACTAGGTAGAAACATGGGACCTAAAT [2414]

Cow -AGTGGTGAAAACATTCAAGCAGAACCAGGTAGAAACAGAGAACCTAAAT [2402]

Pig -AGCGGTGAAAACGTTCGAGCAGAACCAGGTAGAAACAGAGGACCTAAAT [2417]

Hippo -AGTGGTGGAAACATTCAAGCAGAACTAGACAGAAAGAGAGGACCTAAAC [2381]

Sperm\_Whale -AGTGGTGAAAACATTCAAGCAAAACTAGATAGAAACAGAGGACCTAAAT [2414]

Humpback\_Whale -AGTGGTGAAAACATTCAAGCAAAACTAGRTAGAAACAGAGGACCTAAAT [2408]

Cat -AGTGGTGAAAACATTCAAACAGAACTGGGTAGAAACCGAGGACCTAAGT [2426]

Dog -AGTGGTGAAAACATTCAAGCAGAACTAGGTAGAAACCGAGGACCTAAAT [2429]

Dugong -AGTGGCGAAAACATTCGAGCAGAGCTAGGTAGGAACAGAGGACCTAAAT [2354]

Manatee -AGTGGCGAAAACATTGAAGCAGAGCTAGGTAGGAACAGAGGACCTAAAT [2375]

African\_Elephant -AGTGGTGAAAACATTCAAGCAGAAATAAGTAGGAAGAGAGGACCTAAAT [2378]

Asian\_Elepphant -AGTGGTGAAAACATTCAAGCAGAAATAAGTAGGAAGAGAGGACCTAAAT [2378]

Rock\_Hyrax -AGTAGCGAAAACATTCAAGCAGAAATAAGTAGGAACAGAGAACCTAGAT [2339]

Tree\_Hyrax -AGTAGCGAAAACATTCAAGCAGAAATAAGTAGGAACAGAGAACCTAGAT [2357]

Madagascar\_Hedgehog -AGCAGCGAAAACATTCAAGCAGAGCTAGCTAGGAACAGAGAACCTAAAT [2309]

Tenrec -AGCAGCGAAAACATTCAGGCAGAACTAGCTAGGAACAGAGAACCTAAAT [2324]

Golden\_Mole -AGTAACGAAAACATCCAAGCAGAGGTAGGTAGGAACAGAGGACCTAAGT [2351]

Long\_Eared\_Elephant\_Shrew -AGTGGTGAAAACATCCAAGCAGAGCTCGATAGGAACAGAGGACCTGCAT [2282]

Giant\_Elephant\_Shrew -AGTGATGAAAACATCCAAGCCGAACTAGATAGGAACAGAAGACCTGAAT [2384]

Aardvark -AGTGGTGAAAACATTCAAGCAGAACTAGGTAAGAACAGAGGACCTAAAT [2366]

Wombat -AGTGGAGAAGGCAGTCAGGCACAAAAAGGTGAAAACAAAGAATCTGAAT [2402]

[ 2610 2620 2630 2640 2650]

[ . . . . .]

Nine\_Banded\_Armadillo TAAATGCTATGCTCAGATTAGGTCTTATGCAACCTGAAGTCTATAAG--- [2410]

Hairy\_Armadillo TAAATGCTATGCTCAGATTAGGTCTTATGCAACCTGAAGTCTATAAG--- [2419]

Anteater TAAATGCTATGCTCAGATTAGGTCTTATGCAACCTGAAGTCTATGAG--- [2461]

Sloth TAAGTGCTATGCTCAGATTAAGTCTTATGCAACCTGAAGTCTATAAG--- [2461]

Flying\_Squirrel TAAATGCTGTGCTTAGATTAGGTCTTATGCAACCTGAAGCCTGTAAA--- [2521]

Mouse TGAACACTGTGCCTCCATTAGATAGTATGCAGCCTGGTGTCTGTCAG--- [2383]

Rat TAAACACCGTGTCTCTATTAGATAGTACACAGCCTGGTGTCTCTAAG--- [2383]

Old\_World\_Porcupine -----CCTGAACTAAGATTAGGTCTGACGCAGCCCGAAGTCTACCAG--- [2311]

Jackrabbit TAAATGCTGTGCTGAGAATAGGTCTTCTGCAGCCTGAAGTCTCTGAG--- [2446]

Flying\_Fox TAAATGCTGTGCTTCAATTGGGTCTCATGCAGCCTGAAGTCTATAAG--- [2428]

Dog\_Faced\_Fruit\_Bat TAAATGCTGTGCTTCAGTTGGGTCTCATGCAGCCTGAAGTCTATGAG--- [2443]

False\_Vampire\_Bat TAAATGCTGTGCTCAGATTAGGTCTCATGCAACCTCAAGTCTATGTG--- [2446]

Leaf\_Nosed\_Bat TAAATGCTGTGCTCGGATTAGGTCTCGTGCAACCTGAAGTCTATAGG--- [2467]

Free\_Tailed\_Bat TAAATGCTATGCTCAGATCAGGTCTCATGCAACCTGAAGTCTATAAG--- [2416]

Little\_Brown\_Bat TAACTGCTATGCTCAGATTAGGTCTCATGCAACCCGAAGTCTATAAG--- [2428]

Tomb\_Bat TAAGTGCTGTTCTCAGATTAGGTCTCATGCAACCCGAAGTCTATAAG--- [2437]

Round\_Eared\_Bat TAAGCGCTCTTCTCAGATCAGGGCTCATGCAACCTGAAGTCTGTAAG--- [2404]

Human TGAATGCTATGCTTAGATTAGGGGTTTTGCAACCTGAGGTCTATAAA--- [2467]

Galago TGAATGCTGTGCTTAGATTAGGTCTTATGCAACCTGAAGTCTATAAA--- [2467]

Chimpanzee TGAATGCTATGCTTAGATTAGGGGTTTTGCAACCTGAGGTCTATAAA--- [2467]

Gorilla TGAATGCTATGCTTAGATTAGGGGTTTTGCAACCTGAGGTCTATAAA--- [2467]

Orangutan TGAATGCTATGCTTAGATTAGGGGTTTTGCAACCTGAGGTCTATAAA--- [2467]

Howler\_Monkey TGAATGCTATGCTTAGATTAGGGCTTCTGCAACCTGAGATTTGTAAG--- [2485]

Rhesus TGAATGCTGTGCTTAGATTAGGGCTTTTGCAACCTGAGGTCTGTAAA--- [2464]

Tree\_Shrew TAAATGCTGTGCTTAGATTAGGTCTTATGCAACCCGAAGTCTATAAG--- [2359]

Flying\_Lemur TAAGTGCTATGCTTAGATTAGGCCTCATGCAACCTGAAGTTTACAAG--- [2476]

Mole TAAATGCTATGCTCAGATTGGGTCTTATGCAACCTGAAGTCTATAAG--- [2467]

Hedgehog TAAATGCTACTCTTAGAGCAAGTCTTATGCAACCTGAAGTCTTTGAG--- [2413]

Pangolin TAAGTGCTGTGCTCAGATTAGGTCTTATGCAACCTGAGGCCTATAAG--- [2452]

Horse TAAATGCTATTCTCAGATTAGGTCTTATGCAACCTGAAGTCTATAAG--- [2455]

Rhino TAAATGCTATTCTCAGATTAGGTCTTATGCAACCTGAAGTCTATAAG--- [2476]

Llama TAAATGCTATGCTCAGATTAGGTCTTTTGCAACCTGAAGTCTGTAAG--- [2461]

Cow TAAGAGCTTTACTCGGATTAGGTCTTACGCAACCTGAAGTCTATAAG--- [2449]

Pig TAAGTGCAATGCTCAGATTAGGTCTCATGCAACCCGAAGTTTATAAG--- [2464]

Hippo TAAGTGCTTTGCTTAGATTAGGTCTTATGCAACCTGAAGTATATAAG--- [2428]

Sperm\_Whale TAAGTGCTTTGCTCAGATTAGGTCTCATGCAACCCGAAGTCTATAAG--- [2461]

Humpback\_Whale TAAGTGCTTTGCTCAGATTAGGTCTTATGCAACCCGAAGTCTATAAG--- [2455]

Cat TAAGTGCTATGCTCAGGTTAGGTCTTATGCAACCTGAAGTCTATGAG--- [2473]

Dog TAAATGCTATGCTCAGATTAGGTCTTATGCAACCTGAAGTCTGTAAG--- [2476]

Dugong TAAATGCTGTGCTCAGATTAGGTCTTATGCAACCTGAAGTCTATAAA--- [2401]

Manatee TAAATGCTGTGCTCAGATTAGGTCTTATGCAACCTGAAGTGTATAAA--- [2422]

African\_Elephant TAAATGCTGTGCTCAGATTAGGTCTTATGCAACCTGAAGTTTATAAA--- [2425]

Asian\_Elepphant TAAATGCTGTGCTCAGATTAGGTCTTATGCAACCTGAAGTTTATAAA--- [2425]

Rock\_Hyrax TAAATGCTGTGCTCAGGTTAGGTGTTATGCAACCTGAAGTGTATAAA--- [2386]

Tree\_Hyrax TAAATGCTGTGCTCAGGTTAGGTGTTATGCAACCTGAAGTGTATAAG--- [2404]

Madagascar\_Hedgehog TGGATGCTGTGCTCAGGTTGGGTCTTGTGCAACCTGAAGTCTGTAAG--- [2356]

Tenrec TGGATGCTGTGCTCAGACTAGGACTTGTGCAGCCTGAAGGCTGTAAGGAG [2374]

Golden\_Mole TAAATGCTATGCTCACATTAGGTTTTATGCAACCTGAAGTCTATAAA--- [2398]

Long\_Eared\_Elephant\_Shrew TAAATGCTGTACTCAGATTAGGTCTTGTGCAACCTGAAGTCTATGAA--- [2329]

Giant\_Elephant\_Shrew TAAATGCTGTACTCAGGTTAGGTCTTATGCAACCTGAAGTGTATCAA--- [2431]

Aardvark TGAATGCTGTGCTCAAATTATGTCTTATGCAACCTGAAGAGTATAAA--- [2413]

Wombat TAAATACACAACCCAAATTAAAGCTTGTGCAACCCCAAATCTGTCAA--- [2449]

[ 2660 2670 2680 2690 2700]

[ . . . . .]

Nine\_Banded\_Armadillo CAAAGTCTTCCTATAACCAATTGTAAATATCCTGAAATAAAAAGTCAAGG [2460]

Hairy\_Armadillo CAAAGTCTTCCTATAACTAGTTGTAAACATCCTGAAATAAAAAGGCAAGG [2469]

Anteater CAAAATCTTCCTATAACTAATTTTAAACTTTCTGAAATTAAAAAACAAGG [2511]

Sloth CAAAGTCTTCCTATAACTAATTGTAAGCATCCTGAAATTAAAAAGCAAGG [2511]

Flying\_Squirrel CAAAATCTT---CTAAGTAATTGTAAATACCCTGAAATAAAAAGACAAGG [2568]

Mouse CAAAGTGTTCCTGTAAGTGAT---AAGTATCTTGAAATAAAAAAGCAGGA [2430]

Rat CAGAGTGCTCCTGTAAGTGAT---AAGTATCTTGAAATA---AAGCAGGA [2427]

Old\_World\_Porcupine CAAAGTCTTCCTGTAGGTGACTGTAGACATCCCGAAATACAAACACGAGG [2361]

Jackrabbit CAAAGCCTTCCTATAAGTAATTCTGAACTTCCCAAACTACAAAGGCAAGG [2496]

Flying\_Fox CAAAGCCTTCCTCTAAGTAATTGTAAACATCCTGAAATAAAAAGGCAAGG [2478]

Dog\_Faced\_Fruit\_Bat CAAAGCCTTCCTCTAAGTAATTGTAAACATTCTGAAATAAAAAGGCAAGG [2493]

False\_Vampire\_Bat CAAAGCCTTCCTGTAAGCAATTGTGAACATTCTGAAATAAAAAGGCAAGG [2496]

Leaf\_Nosed\_Bat CAAAGCCTTCCTGTAAGTAATTGTCAACATCCAGAAATAAAAAGGCAGGG [2517]

Free\_Tailed\_Bat CCAAGCCTTTCTGTAAGTAATTGTGAACATCCTGAAATAAAAAGGCAAGG [2466]

Little\_Brown\_Bat CCAAGCCTTCCTGTAAGTAATTGTAAACATCCTGAAGTAAAAAGGCAAGG [2478]

Tomb\_Bat CCAAGCCTTCCTATAAGTAATTGTAAACACTCTGAAATAGAAAGGCAAGG [2487]

Round\_Eared\_Bat CCGAGTCTTCCTCTGAGTAATTGTGAAGATCCTGAAATAAAAAGGCAA-- [2452]

Human CAAAGTCTTCCTGGAAGTAATTGTAAGCATCCTGAAATAAAAAAGCAA-- [2515]

Galago CAAAATCTTCCTATAAGTAATTGTGAACATCCTAAAATAAAAGGGCAAGA [2517]

Chimpanzee CAAAGTCTTCCTGAAAGTAATTGTAAGCATCCTGAAATAAAAAAGCAA-- [2515]

Gorilla CAAAGTCTTCCTGGAAGTAATTGTAAGCATCCTGAAATAAAAAAGCAA-- [2515]

Orangutan CAAAGTTTTCCTGGAAGTAATGGTAAGCATCCTGAAATAAAAAAGCAA-- [2515]

Howler\_Monkey CAAAGTCTTCCTATAAGTGATTGTAAACATCCTGAAATTAAAAAGCAA-- [2533]

Rhesus CAAAGTCTTCCTATAAGTAATTGTAAGCATCCTGAAATAAAAAAGCAA-- [2512]

Tree\_Shrew CAAAGTCTTCCTTTAAGTAATCATAATGATCCTGAAATGAAAAGACAAGA [2409]

Flying\_Lemur CAAAATCTTCCTTTAGGTAATTGTAAACATCCTGAAATA---AGGCAAGA [2523]

Mole CAAAGTCTTCCTAAAAGTACTTGTAAACATCCTGAAGTTAAAAGGCAAGG [2517]

Hedgehog CAGTGTCTTCTGATGAGTAACTGTAAACATTCTGAAATGAAAAGACAAGG [2463]

Pangolin CAAAATCTTCTTATAGGTAATCGTAAACACCCTGAAATTAAAAGACAAGG [2502]

Horse CAAAGTCTTCCTATAAGTAATTGTAAACATCTGGAAATAAAAAGGCAAGG [2505]

Rhino CAAAGTCTTCCAATAAGTAATTGTAAACATCCGGAAATAAAAAGGCGAGG [2526]

Llama CAAAGTCTTCCTGTAAGTAATTGTAAACAACCTGAAATAAAAAGGCAAGG [2511]

Cow CAAAGTCTTCCTGTAAGTAACTGTCACCATCCTGAAATAAAAAGGCAAGG [2499]

Pig CAAAGTCTTCCTGTAAGTAATTGTAACCACACAGAAATAAAAAGGCAAGG [2514]

Hippo CAAAGTCTTCCTGTAAGTAATTGTCAACATCCTGAAATAAAAAGGCAAGG [2478]

Sperm\_Whale CAAAGTCTTCCTGTAAGTAACTGTCAACTTCCTGAAATAAAAAGGCAAGG [2511]

Humpback\_Whale CAAAGTCTTCCTATAAGTAACTGTCAACTTCCTGAAATAAAAAGGCAAGG [2505]

Cat CAAAGTCTTCCTATAAGTAATTGTAAATGTCCAGAAATGAAAAGGCAAGG [2523]

Dog CAAAGCCTTTCTTTAAGTAATTGTAAACATCCAGAAATGAAATGGCAAGG [2526]

Dugong CAAAGTCTTCCTGTAAGTAACTGTAAACGTCCTGAAATAAAAAGGCAAGG [2451]

Manatee CAAAGTCTTCCTGTAAGTAACTGTAAACATCCTGAAATAAAAAGGCAAGG [2472]

African\_Elephant CAAAGTCTTCCTATAAGTGACTGTAAACATCCTGGAATAAAAACGCAAGG [2475]

Asian\_Elepphant CAAAGTCTTCCTATAAGTGACTGTAAACATCCTGGAATAAAAACGCAAGG [2475]

Rock\_Hyrax CAAAGTCTTTCTATAAGTAACTGTAAACAGCCAGAAATAAAAAAGCGAGG [2436]

Tree\_Hyrax CAAAGTCTTTCTATAAGTAACTGTAAACAGCCAGAAATAAAAAAGCAAGG [2454]

Madagascar\_Hedgehog GAAAGTCTTCCTATGAGGAAATGTAAGCATTCTGAAGTAAAAAGGCAAAA [2406]

Tenrec GAAAGTCTTCCCCTAAGGAAATGCAAGCATCCTGAAGTAAGAAGGCAAAA [2424]

Golden\_Mole CAAAATCTTACTCTAAGTAATTGTAAACATCCTGAAATAACAAAGCAGGG [2448]

Long\_Eared\_Elephant\_Shrew CAAAGTCTTCCTGCAGGAAATTGTAAACATCCTGAAATGACAAGGCCAGG [2379]

Giant\_Elephant\_Shrew CCAAGTCTTCCAACAAATAACTGTGAATATCTTGAAATTAGTGGGCCAGG [2481]

Aardvark CAAAGTCCTCCTATAAGTAATTGTAAACATCCTTCAATAAAAACCCAAGG [2463]

Wombat CAAAGCTTTCCTCAGGATAATTGCAAAGAGTCTAAAAGAAAAGGGAAGGG [2499]

[ 2710 2720 2730 2740 2750]

[ . . . . .]

Nine\_Banded\_Armadillo AGAAAATGAAGAAGCAATTCGGGCTGTTGATATAGACTTCTCTCCATGTC [2510]

Hairy\_Armadillo AGAAAATGAAGAAGCAATTCAGGCTGTTGATACTGATTTCTCTCCACATC [2519]

Anteater AGAAAATGAAGAAGTAGTTCAGGCTGTTAATACAGATTTCTCCCCATGTC [2561]

Sloth AGAAAATGAAGAAGTAGTTCAGGCTGTTAAAACA------------TGTC [2549]

Flying\_Squirrel AGAAGAT---GAAGTAGTTCAAGTTGTTAATGCAGATTTCTCTCCATGTC [2615]

Mouse G---------------GGTGAGGCTGTCTGTGCAGACTTCTCTCCATGTC [2465]

Rat G---------------AGTAAGGCTGTCAGTGCAGACTTCTCTCCATGTC [2462]

Old\_World\_Porcupine AGAAAATGGAGTGGTAGCTCAGGCTGTCCATGCAGATTTCTCTCCGTGTC [2411]

Jackrabbit AGAAAACGAAGGAGTAGTTCAGGCTGTGAATAGAGATTTCTCTTCGTATC [2546]

Flying\_Fox AGAAAATGAAGGAGTAGTTCAGGCTGTTAATGCAGATGTCTCTCTACGTC [2528]

Dog\_Faced\_Fruit\_Bat AGAAAATGAAGGAGTGGTTCAGGCTGTTAATGCAGATGTCTCTCCA?GTC [2543]

False\_Vampire\_Bat AGAAAATGAAGGAGTAGTTGAGGCTGTTAATGCAGAATTCTCTCCATGTC [2546]

Leaf\_Nosed\_Bat AGAAAATGAAGGAATAGTTCAGGCTGTTAGTGCAGACTTCTCTCCATGTC [2567]

Free\_Tailed\_Bat AGAAAATGAAGGAGTAGTTCAGGCTGTTAATGCAGATTTCTCTCCATGTC [2516]

Little\_Brown\_Bat AGACAACGAAGGACTAGTTCAGGCTGTTAATGCAGACTTCCCTCCATGTC [2528]

Tomb\_Bat AGAAAATGAAGTAGTAGTTCAGGCTGTTAATGCA------------TGTC [2525]

Round\_Eared\_Bat -GAAGATGGGGGAGTAGTGCAGGCTGTTAATGCAGATTTCTCTCCGTGTC [2501]

Human -GAATATGAAGAAGTAGTTCAGACTGTTAATACAGATTTCTCTCCATATC [2564]

Galago AGAAAAT---GGAGTAGTTCAACCTGTTAATCCAGATTTTTCTTCATGTC [2564]

Chimpanzee -GAATATGAAGAAGTAGTTCAGACTGTTAATACAGATTTCTCTCCATGTC [2564]

Gorilla -GAATATGAAGAAGTAGTTCAGACTGTTAATACAGATTTCTCTCCATGTC [2564]

Orangutan -GAATATGAAGAAGTACTTCAGACTGTTAATACAGACTTCTCTCCATGTC [2564]

Howler\_Monkey -GAACATGAAGAAGTAGTTCAGACTGTTAATACAGACGTCTCTCTATGTC [2582]

Rhesus -GAACATGAAGAATTAGTTCAGACTGTTAATACAGACTTCTCTCCATGTC [2561]

Tree\_Shrew AAAAAATGAAGGAGGAGTTCAG---GCTATTAAAGATTTACCTCCATGTC [2456]

Flying\_Lemur AGAAAATGAAGGAATAGTTCAGGCTGTTAATACAAATCTGTCTCTGTGCC [2573]

Mole AGAAAATGAAGGCATAGTTCAGGCTGTTCATACAGATTTCTTTCCATGTC [2567]

Hedgehog AGAAAATGAAGGTGTTATTCAGACTGTTAATATAGAATCCGATTCATGCC [2513]

Pangolin AGAAAAAGAAGGAGTAGTTCAGGTTGTTAATGCTGATTTCTCTCCATGTC [2552]

Horse AGAAAAGGAA---GTAGTTCAGGCTGTTAACGCAGACTTTTCTCCGTGTC [2552]

Rhino AGAAAATGAAGGAGTAGTTCAGCCTGTTAATGCAGATTTCTCTCCGTGTC [2576]

Llama AGAAAATGAAGGCATCTTTCAGGCTGTTAATACCGACTTCTCTCCATGTC [2561]

Cow AGAAAATGAGGACATGCCTCAGGCTGTTAAGGCAGATTTCTCCCCATGTC [2549]

Pig AGAAAATGAAGGCATATTTCAGGCTGTTAATGCAGATTTCTCCCCATATC [2564]

Hippo AGAAAATGAAGGCATACTTCAGGCTGTTAATGCAGATTTCTCCCCGTGTC [2528]

Sperm\_Whale AGAAAATGAAGGCACACTTCAGGCTGTTAATGCAGATTTCTCCCCATGTC [2561]

Humpback\_Whale AGAAAGTGAAGGCACACTTCAGGCTGTTAATGCAGATTTCTCCCCAAGTC [2555]

Cat AGAAAATGAAGGAGTAGTTCAGTCTGTTAATGCAGATTTTTCTCCATGTC [2573]

Dog ACAAAGTGAAGGAGCAGTTCTGTCTGTTAGTGCAGATTTCTCTCCATGTC [2576]

Dugong AGAAAATGAAGGAGTAGTTCAGGATGTTAATATGGATTTCTCTCCATGTC [2501]

Manatee AGAAAATGAAGGAGTCGTTGAGGATGTTAATATGGATTTCTCTCCATGTC [2522]

African\_Elephant AGAAAATGAAGGAGTAGTTCAGGCTGTTAATACAGATTTCTCCCCATGTC [2525]

Asian\_Elepphant AGAAAATGAAGGAGTAGTTCAGGCTGTTAATACAGATTTCTCCCCATGTC [2525]

Rock\_Hyrax AGAAAATGAAGGAGTAGTTCAGGCTGTTAGTACAGATTTCTCTGCATGTC [2486]

Tree\_Hyrax AGAAAATGAAGGAGTAGTTCAGGCTGTTAGTACGGATTTCTCTGCATGTC [2504]

Madagascar\_Hedgehog AGGCAATGGAGGACTAGTTCCAGCTGTTCATCCAGATTTCTCTCGCTATC [2456]

Tenrec AGGCAATGGAGGACTAGTTCCAGCTGTCAATCCGGATCTCTCCCGCTATC [2474]

Golden\_Mole AGACAATGAAGAAAGAGTTCAAGCTGCTGACCCAGGTTTCTCTCCGTGTC [2498]

Long\_Eared\_Elephant\_Shrew AGACAGTGAAGGAGAAAAAAAGACTGTTAATCCAGATTTCTCTCCATGTC [2429]

Giant\_Elephant\_Shrew AAAAAATGAAGGCATAATTCAGGCTGTTAATCCAGATTTTACTCCGTGTC [2531]

Aardvark ACAAAATGAAGGAGTAGTTCAGGCTGTTAATACAGGTTTTTCTTCATGTC [2513]

Wombat AGGAAATGGAAAATTAGCTCAGGCCATCAGTACAGATTCATCTCCATGT- [2548]

[ 2760 2770 2780 2790 2800]

[ . . . . .]

Nine\_Banded\_Armadillo TAATTTCAGATAACCTACAACTA---CCTATGGGAAATAGTTGTGCTTCC [2557]

Hairy\_Armadillo TAATTTCAGATAACCTAGAACTA---CCTATGGGAAATAGTCATGTTTCT [2566]

Anteater TAATTTCAGATAACCTAGAACTG---CCTATGGGAAGTAGTCGTGTTTCT [2608]

Sloth TAATTTCAGATAACCTAGAACTA---CCTATGGGAAGTAGTCATGCTTCT [2596]

Flying\_Squirrel TAATTTCAGATGACTTAGAACAA---CCTATGGGAAATAGTCATGTCACT [2662]

Mouse TATTCTCAGACCATCTTGAGCAA---TCTATG---AGTGGTAAGGTTTTT [2509]

Rat TGTTCTCAGATCATCTTGAAAAA---CCTATGAGAAGTGATAAGACTTTT [2509]

Old\_World\_Porcupine TAATTTTAGATAACGTGGAACAG---CCTATGGGAAATAATCCTGCTTCT [2458]

Jackrabbit TGGTTCCTGATAGCCAAGAGCAG---TCTATGGGAGGAAGGCATGCTTCT [2593]

Flying\_Fox AGATTTCAGATAACTTAGAGCAA---CCTATGGGAAACAGTAATGCTTCT [2575]

Dog\_Faced\_Fruit\_Bat AAATTTCAGATAACTTAGAGCAA---CCTATGGGAAACAGTAATATTTCT [2590]

False\_Vampire\_Bat AAACTTCAGATAACCTGGAACAA---CCTATGGGAAGTAGTCATGCTTCT [2593]

Leaf\_Nosed\_Bat AAATTTCAGATAACCTAGAACAA---CCTACGGGAAGTAGTCATGCTTCT [2614]

Free\_Tailed\_Bat AAATTTCAGATAACTTAGAACAA---TCTATGGGAAGTACTCCTGCTTCT [2563]

Little\_Brown\_Bat AAATTTCAGATAACCTAGAACAA---CCTATGGGAAGTAGTCCTGTTTCT [2575]

Tomb\_Bat AAATTTCAGATAACTTAGAACAG---CCTATGGGAAGTAGTCCTGTTTCT [2572]

Round\_Eared\_Bat AAATTTTAGATAACCTAGAACAA---CCTCTGGGAAGCAGTCCCGCTTCT [2548]

Human TGATTTCAGATAACTTAGAACAG---CCTATGGGAAGTAGTCATGCATCT [2611]

Galago TAATTTCAGATAACCTAGAACAA---CCTACGAGAAGTAGTCATGCTTCT [2611]

Chimpanzee TGATTTCAGATAACTTAGAACAG---CCTATGGGAAGTAGTCATGCATCT [2611]

Gorilla TGATTTCAGATAACTTAGAACAG---CCTATGGGAAGTAGTCATGCATCT [2611]

Orangutan TGATTTCAGATAACCTAGAACAG---CCTATGAGAAGTAGTCATGCATCT [2611]

Howler\_Monkey TGATTTCATATAACCTAGAACAG---CATATGGGAAGCAGTCATACATCT [2629]

Rhesus TGATTTCAGATAACCTAGAACAG---CCTATGGGAAGTAGTCATGCGTCT [2608]

Tree\_Shrew TAATTTCAGATAAT---CAAGAG---CATATGGGAAGTAGCCATGCTTCT [2500]

Flying\_Lemur TAATTTCACATAACCTCGAACAA---CCTATGGAAAGTAGTCATGCTTCC [2620]

Mole TGATTTCAGATAACCAAGAACAA---CCTATGGGAAGTAGTCATGCTTCT [2614]

Hedgehog CAAGACCAGATAACTTAGAACAA---CCGGTGGAAACTAGTCAT------ [2554]

Pangolin TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGTAGTCATGCTTCT [2599]

Horse TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGTAGTTGTGCTTCT [2599]

Rhino CAATTTCAGATAACCTAGAACAA---CCTGTGGGAATTAGTTGTGCTTCT [2623]

Llama TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGCAGTCATGCTTCT [2608]

Cow TAATTTCAGATAACCTCGAACAA---CCTACGGGAAGCCGTCATGCTTCT [2596]

Pig TAATTTCAGATAACCCCGAACAA---CCTATGGGAAGTAGTCATGCTTCT [2611]

Hippo TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGCAGTCATGCTTCT [2575]

Sperm\_Whale TAGTTTCAGATAACCTAGAACAA---CCTATGGGAAGAAGCCATGCTTCT [2608]

Humpback\_Whale TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGAAGCCATGCTTCT [2602]

Cat TAATTTCCGATAATGTAGAACAA---CCTATGGAAAGTAGCCGTGCTTCT [2620]

Dog TGATTTCAGATAACCCAGAACAA---CCTATGGGAAGTAGTCGGTCTTCT [2623]

Dugong TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGTAGTCGTGCTTCT [2548]

Manatee TAATTTCAGATAACCTAGAACAA---CCTATGGGAAGTAGTCGTGCTTCT [2569]

African\_Elephant TAATTTCAGATAACCTAGAACAA---CCTGTGGGAACTAGTCGTGCTTCT [2572]

Asian\_Elepphant TAATTTCAGATAACCTAGAACAA---CCTGTGGGAACTAGTCGTGCTTCT [2572]

Rock\_Hyrax CCATTTCAGAAAACCTAGAACAA---CCTGTGAGAAGTAGTCACACTTCT [2533]

Tree\_Hyrax CCATTTCAGAAAACCTAGAACAA---CCTGTGAGAAGTAGTCACACTTCT [2551]

Madagascar\_Hedgehog TAATGTCACATAACCCAGAGCAG---CCTATGGAGGACAATGAT---CCT [2500]

Tenrec TAATGTCACGTAACCCGGAGCAA---CCGATGGAGAGCAACGGT---TCT [2518]

Golden\_Mole TAATTTCAGATAACCTAGAACCA---CCTATGGGAAGTAATCATGCTTCT [2545]

Long\_Eared\_Elephant\_Shrew TACTCTCAGATAATTTAGAACAA---CCTAGGGGAAGTTGTCATGCTTCT [2476]

Giant\_Elephant\_Shrew TGATTTCAGATAACTTAGAACAACAGCCTATGGGAAGTAATCATGCTTCT [2581]

Aardvark TGATTTCAGATAACCTAGGACAA---CCTATGGGAAGCAGTCATGCTTCT [2560]

Wombat --------------TTAGAACAA---ACTAAAGAGAGTACACATTCTTCT [2581]

[ 2810 2820 2830 2840 2850]

[ . . . . .]

Nine\_Banded\_Armadillo CAGATTTGTTCTGAGACACCTGATGACTTGTTAGATGATGATGAAATAAA [2607]

Hairy\_Armadillo CAGATTTGTTCTGAGACGCCTGATGATTTGTTAGATGATGATGAAATAAA [2616]

Anteater CAGATTTGTTCTGAGACACCTGATGACCTGTTAGATGATGATGAAATAAA [2658]

Sloth CAGATTTGTTCTGAGACACCTGATGATCTGTTAGATGATGGTGAAATAAA [2646]

Flying\_Squirrel CAGGTTTGTTCTGAGACTCCTGATGACCTGTTAGATGATGATGAAATACA [2712]

Mouse CAGGTTTGCTCTGAGACACCTGATGACCTGCTGGATGATGTTGAAATACA [2559]

Rat CAGGTTTGCTCTGAGACACCTGATGACCTGTTGGATGATGTTGAAATACA [2559]

Old\_World\_Porcupine CAGATCTGTTCTGAGACGCCCGATGACCTGTTAGATGATGAGAACAAAAA [2508]

Jackrabbit CAGATTTGTTCTGAGACACCTGATGACCTGTTAGATATTTATGAAATAAA [2643]

Flying\_Fox CAGGTTTGTTCTGAGACACCGGATGACCTGTTAAATGATGACAAAATAAA [2625]

Dog\_Faced\_Fruit\_Bat CAGGTTTGTTCTGAGACACCGGATGACCTGTTAAATGATGACAAAATAAA [2640]

False\_Vampire\_Bat CAAATTTGTTCTGAGACACCGGATGACCTGTTAAACGATTATGAAATAAA [2643]

Leaf\_Nosed\_Bat CAGGTTTGTCCTGAGACACCGGATGACCTGTTAAATGATAACGAAATAAA [2664]

Free\_Tailed\_Bat CAGGTTTGTTCTGAGACACCAGATGACCTGTTAAATGATGACAAAATAAA [2613]

Little\_Brown\_Bat CAGGTTTGTTCTGCGACACCGGATGACTTGTTAACTGATGATGAAATAAA [2625]

Tomb\_Bat CAGGCTTGTTCTGAGACACCAGATGACCTATTAGATGATGACAAAATAAA [2622]

Round\_Eared\_Bat CGGGTTTGTTCCGAGACCCCAGACGACCTGTTAAATGATGACAAGGTAAA [2598]

Human CAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGATGGTGAAATAAA [2661]

Galago CAGCTTTGTTCTGAGACACCTGATGACTTATTAGTTGATGATGAACTAAA [2661]

Chimpanzee CAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGATGGTGAAATAAA [2661]

Gorilla CAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGATGGTGAAATAAA [2661]

Orangutan CAGGTTTGTTCTGAGACACCTAATGACCTGTTAGATGATGGTGAAATAAA [2661]

Howler\_Monkey CAGGTTTGTTCTGAGACACCTGACAACCTGTTAGATGATGGTGAAATAAA [2679]

Rhesus GAGGTTTGTTCTGAGACTCCTGATGATCTGTTAGATGATGGTGAAATAAA [2658]

Tree\_Shrew CAGATTTGTTCTGAGACACCTGATGATCTGTTAGATGATGATGAAGGAAA [2550]

Flying\_Lemur CAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGGTGATGAGATAAA [2670]

Mole CAGGTTTGTTCTGAGACGCCTGAGGACCTGTTAAATGACGAAATAAAGGA [2664]

Hedgehog ---GTTTGTTCTGAAACACCTGACGATCTGTTAAATGACGATGAAATGAA [2601]

Pangolin CAGGTTTGTTCTGAGACACCTGAGGACATATTAAATGGTGATGAAATAAA [2649]

Horse CAGGTTTGTTCTGAGACACCTGATGACCTGTTAAATGATGACGAAATAAA [2649]

Rhino CAGGTTTGTTCTGAGACACCTGATGACCTATTAAATGACAACGAAATAAA [2673]

Llama CAGGTTTGTTCTGAGACACCTGATGACCTGTTATATGATGACGAAATAAA [2658]

Cow CAGGTTTGTTCTGAGACACCTGACAACTTGTTAAATGATGATGAAATAAA [2646]

Pig CAGATTTGTTCTGAGACACCTGATGACCTGTTAAATGATGACAAAATAAA [2661]

Hippo CAGGTTTGTTCTGAAACACCTGATGATTTGTTAAATGATGACGGAATAAA [2625]

Sperm\_Whale CAGGTTTGCTCTGAGACATCTGATGAGTTGTTAAATGATGACAAAATAAA [2658]

Humpback\_Whale CAGGTTTGTTCTGAGACATCTGACGAGTTTTTAAATGATGACAAAATAAG [2652]

Cat CAGGTTTGTTCTGAGACACCCAATGACCTATTAAATGGTGATGAAATAAA [2670]

Dog CAGGTTTGTTCTGAGACACCTGATGACCTATTAAATGGTGACAAAATAAA [2673]

Dugong CAGATTTGTTCTGAGACTCCTGATGACCTGTTAGATGATGATGAAATAAA [2598]

Manatee CAGATTTGTTCTGAGACTCCTGATGACCTGTTAGATGATGATGAAATAAA [2619]

African\_Elephant CAGGTTTGTTCTGAGACTCCCGACGACCTGTTAGATGATGATGAAATAAA [2622]

Asian\_Elepphant CAGGTTTGTTCTGAGACTCCCGACGACCTGTTAGATGATGATGAAATAAA [2622]

Rock\_Hyrax CAGGTTTGTTCTCAGACTCCTGATAACCTGTTAGATGATGATGAAATAAA [2583]

Tree\_Hyrax CAGGTTTGTTCTCAGACTCCTGATAACCTGTTAGATGATGATGAAATAAA [2601]

Madagascar\_Hedgehog CAGATTTGTTCTGAGACACCTGAAGACCTGTTAGATGACAGTGAAATAAA [2550]

Tenrec CAGATTTGCTCGGAGACACCTGAAGACCTGTTAGATGACAGTGAAATAAA [2568]

Golden\_Mole CAGATTTGTTCTGAGACACCTGATGACCTGTTAGATGATGATGAAATCAA [2595]

Long\_Eared\_Elephant\_Shrew CAGATTTGTTCTGAGACACCAGATGACCTGTTTGGTGATGATGAAATAAA [2526]

Giant\_Elephant\_Shrew CAGATTTGTTCTGAAACACCTGATGACCTGTTAAATGATGAGAAAAGAAA [2631]

Aardvark CAGATTTGTTCTGAGACACCTGATGACCTGTTAGATGATGACAAAATAAA [2610]

Wombat CAGGTTTGTTCTGAGACACCTGATGACCT????????????????????? [2631]

[ 2860 2870 2880 2890 2900]

[ . . . . .]

Nine\_Banded\_Armadillo GGAAAATAACTGCTTTGCTGAAAGTGACATTAAGGAAAGATCTGCTATTT [2657]

Hairy\_Armadillo GGAAAATAACAGCTTTGCTGAARATGGCATTAAGGAAAGATCTGCTGTTT [2666]

Anteater GGAAAATAACAGCTTTGCTGAAAGTGGCGTTAAGGAAAGATCTGCTGTTT [2708]

Sloth GGAAAATAACAGCTTTGCTGAAAGTGGCATTAAGGAAAGATCTGCTGTTT [2696]

Flying\_Squirrel GGAAAATACCAGCTTTGCTGAAGGTGGTATTAAGGAAAGATCTGCTGTTT [2762]

Mouse GGGACATACTAGCTTTGGTGAAGGTGACATAATGGAGAGATCTGCTGTCT [2609]

Rat GGAAAATGCTAGCTTCGGTGAAGGTGGCATAACGGAAAAGTCTGCTATTT [2609]

Old\_World\_Porcupine GGAAGATGCCAGCTTTGCCGAAGGTGGCATTAAGGAAACTTCTGCCATTT [2558]

Jackrabbit GGAAAATACCAGCTTTGCTGAGAGCGGCATTAAGGAAAGATCTGCTGTGT [2693]

Flying\_Fox AGAGAATATCGGCTTTGATGAAAGTGGCATTAAGGAAAGATCTGCTGTTT [2675]

Dog\_Faced\_Fruit\_Bat GGACAATATCAGCTTTGATGAAAGTGGCATTCAGGAAAGATCTGCTGTTT [2690]

False\_Vampire\_Bat GGAAAATGTTAGCTTT---------------AAGGAAAGATCTGCTGTTT [2678]

Leaf\_Nosed\_Bat GGAAAATGACAGCTTTGCTGAAAGTGACATTAAGGAAAGATCTGCTGTTT [2714]

Free\_Tailed\_Bat GGAGAATAGCAGCTTTGCTGGAAGTGGCATTAAGGAAAGATCTGCTATTT [2663]

Little\_Brown\_Bat GGAGAATAGCGGCTTTGATGAAAGTGGCATTAA?GAAAGATCTGCTGTTT [2675]

Tomb\_Bat GGAGAATAGCAGCTTTGCTGAAAGTGGCATTAAGGAAAGATCTGCTATTT [2672]

Round\_Eared\_Bat GGAGGATAACAGCTTTGCTGAAGGCGGCATGAAGGACAGATCTGCTGTTT [2648]

Human GGAAGATACTAGTTTTGCTGAAAATGACATTAAGGAAAGTTCTGCTGTTT [2711]

Galago GGAAAATACCAGTTTTGCTGAAAATAACATTAAGGAAAGATCTGCTGTTT [2711]

Chimpanzee GGAAGATACTAGTTTTGCTGAAAATGACATTAAGGAAAGTTCTGCTGTTT [2711]

Gorilla GGAAGATACTAGTTTTGCTAAAAATGACATTAAGGAAAGTTCTGCTGTTT [2711]

Orangutan GGAAGATACTAGTTTTGCTGAAAATGACATTAAGGAAAGTTCTGCTGTTT [2711]

Howler\_Monkey GGAAGATACTAGTTTTGCTGAATATGGCATTAAGGAGACTTCTACTGTTT [2729]

Rhesus GGAAGATACTAGTTTTGCTGAAAATGACATTAAGGAGAGTTCTGCTGTTT [2708]

Tree\_Shrew AGAAAATAGC---TTTGCTGAGGTTGATGTTAAGGAAAGATCTGCTGTTT [2597]

Flying\_Lemur GGAAAACACCAGCTTTGCTGAAAGTGACAGTAAGGAAAGATCTGCTGTTT [2720]

Mole TAATAACATCAGCTTTGCTGACAGTGGCATTAAGGAAAGATCTGCTGTTT [2714]

Hedgehog GGAAAATACAAGCTTTACTGAAAGTGGCATTAAGGAACAATCTGCTGTTT [2651]

Pangolin GGAAAATATCGGCTTTGCTGAAAGTGGTATTAAGGAAAGATCTGCTGTTT [2699]

Horse GGAAAATATCAGCTTTGCTGAAAGTGGCGTTAAGGAAAGATCTGCCGTTT [2699]

Rhino GGAAAATATCAGCTTTACTGAAAGTGGCATTAAGGAAAGATCTGCTATTT [2723]

Llama GGAAAATACCAGCTTTGCTGAAAGTGACATTAAGGAAAGATCTGCTGTTT [2708]

Cow AGAAAATAGCCACTTTGCTGAAAGTGACATTAAGGAAAGATCTGCTGTTT [2696]

Pig GGAAAATCTCAACTTTGCTGAAAGTGACGTTAAGGAAAGATCTGCTGTTT [2711]

Hippo GGAAAATAGCAACTTTGCTGAAAGTGACATTAAGGAAAGATCTGCTGTTT [2675]

Sperm\_Whale GGAAAATAGCAACTTTGCTGAAAGTGACATTAAGGAAAGATCT---GTTT [2705]

Humpback\_Whale GGAAAATAGCAACTTTGCTGAAAGTGACATTAAGGAAAGATCT---GTTT [2699]

Cat GGGAAAAATCAGCTTTGCTGAAAGT---GCTAAGGAAAGATCTGCTGTTT [2717]

Dog GGGAAAAGTCAGCTTTGCTGAAAGTGACATTAAGGAAAAATCTGCTGTGT [2723]

Dugong GGAAAATATCAGCTTTGCTGAAAGTGGCATTAAGGAAAGATCTGCTGTTT [2648]

Manatee GGAAAATATCAGCTTTGCTGAAAGTGGCATTAAGGAAAGATCTGCTGTTT [2669]

African\_Elephant GGAAAATATCAGCTTTGCTGAAAACGGCATTAAGGAAAGATCT---GTTT [2669]

Asian\_Elepphant GGAAAATATCAGCTTTGCTGAAAACAGCATTAAGGAAAGATCT---GTTT [2669]

Rock\_Hyrax GGGAAAGACTGACTTTGCTGGAAGTAGCATTAAGGACAGACCT---GTCT [2630]

Tree\_Hyrax GGGAAAGACTGACTTTGCTGGAAGTAGCATTAAGGACAGACCT---GTCT [2648]

Madagascar\_Hedgehog TAAAAACAGCCACTTGGTTCAAAGTGACATTAGGGAAAGATCTGCTGTTT [2600]

Tenrec AAATAACAGCTACTTTGTTCAAAGTGACGTTAAGGAAAGGTCTGCAGTTT [2618]

Golden\_Mole AGAAAATATCAGCTTTGCTGAAAGTGGCATTAACGAAAGATCTGCAGTTT [2645]

Long\_Eared\_Elephant\_Shrew GGAAAATAGCAGCTTTGGTGAAATCAGCTTTAAAGAGAGATCTGCTGTTT [2576]

Giant\_Elephant\_Shrew TGAGAATATCAGCTTTGCTCAAATCAGCATTAAGGAACGATCCACTGTTT [2681]

Aardvark GGAAAATACCAGCTTTGCTGTAAGTGGCATTAAGGAAAGATCTGCTGTTT [2660]

Wombat ?????????????????????????????????????????????????? [2681]

[ 2910 2920 2930 2940 2950]

[ . . . . .]

Nine\_Banded\_Armadillo TTAGCAAAACTGTCCAGAAAAGAGAGTTCAGAAGGAGCCCTAGCCCTTTA [2707]

Hairy\_Armadillo TTAGCAAAAGTGTCCAGAAAAGAGAGTTCAGAAGGAGTCCTAGCCCTTTA [2716]

Anteater TTAGCAAAAGTGTCCAGAGAAGAGAATTCAGAAGGAGCCCTAGCCCTTTA [2758]

Sloth TTACCAAAAGTGTCCAGAAAAGAGAGTTCAGAAGGAGCCCGAGCCCGTTA [2746]

Flying\_Squirrel TTAGTAAGAGTGTCCAAAGAGGAGAGTTTAGCAGGAGCCCGAGTCCTTTA [2812]

Mouse TTAACGGAAGCATCCTGAGAAGGGAGTCCAGTAGGAGCCCTAGTCCTGTA [2659]

Rat TTAATGGAAGTGTCCTGAGAAGAGAGTCCAGTAGGAGCCCTAGCCCTGTA [2659]

Old\_World\_Porcupine TTAGCAAGAGTGTCCAGACAAGACGATTCAGCAGGAGCCCCAGCCCTGTA [2608]

Jackrabbit TTAGTAAAAGTGTTCAGAGGGGAGAGTGCAGTAGAACCCCTAGCCCTTCA [2743]

Flying\_Fox TTAGCAAAAGTGTCCAGAAAGGAGAATTCAAAAGGAGCCCTAGTCCCTTA [2725]

Dog\_Faced\_Fruit\_Bat TTAGCAAAAATGTCCAGAAAGGAGAATTCAGAAGGAGCCCTAGTCCCTTA [2740]

False\_Vampire\_Bat TTAGCAAAAGTGTCCAAAAAGAAGAATTGAGTAGAAGCCCTAGCCCCTTA [2728]

Leaf\_Nosed\_Bat TTAGCAAAAGTGTCCAGAAAGGAGAATTCAGAAGGAGCCCTAGCCCCGTA [2764]

Free\_Tailed\_Bat TTAGCAAAAGTGTCAAGAAAGAAAAATTCAGAAGGAGCCCTAGCCCCTTT [2713]

Little\_Brown\_Bat TTAGCAAAGATGTTCAGAAAGAAGAATTCAGAGGGAGCCCTAGCCCCTTA [2725]

Tomb\_Bat TTAGCAAAAGTGCCCAG---GAAGAACTCAGCAGGAGCCCTAGCCCCTTA [2719]

Round\_Eared\_Bat TTAGCAAAAGCGTCCTG---AAAGAATTCAGAAGGAGCCCCAGTCCCTTA [2695]

Human TTAGCAAAAGCGTCCAGAAAGGAGAGCTTAGCAGGAGTCCTAGCCCTTTC [2761]

Galago TTAGCAAAAATGTCATGAGAAGAGAGATTAGCAGGAGCCCTAGCCCTTTA [2761]

Chimpanzee TTAGCAAAAGCGTCCAGAGAGGAGAGCTTAGCAGGAGTCCTAGCCCTTTC [2761]

Gorilla TTAGCAAAAGCGTCCAGAGAGGAGAGCTTAGCAGGAGTCCTAGCCCTTTC [2761]

Orangutan TTAGCAAAAGCGTCCAGAGAGGAGAGCTTAGCAGGAGTCCTAGCCCTTTC [2761]

Howler\_Monkey TTAGCAAAAGTGTCCAGAGAGGAGAGCTCAGCAGGAGCCCTAGCCCTTTC [2779]

Rhesus TTAGCAAAAGCATCCAGAGAGGAGAGCTCAGCAGGAGCCCTAGCCCTTTC [2758]

Tree\_Shrew TTGGCAAAACTGTCCAGAGAAGAGAGTTAAGAAGGAGCTCTAGCCCTTTA [2647]

Flying\_Lemur TTAGCAAAAGTGTCCAGAGAGGAGAGTTAAGCAGGAGCCCTAGCCCTTTT [2770]

Mole TTAGCAAAAGTTTCCAGAAAGGAGAATTC---AGGAGCCCTAGCCTTTTA [2761]

Hedgehog TTGGCAAAAGTACCCAGAAA---GGTTTCAGAAGGAGCCCTAGCCCTTTA [2698]

Pangolin CTAGCAAAAGTGTCCAGAAAGGAGAATTCAGAAAGAGCCCAAGCCCTGTA [2749]

Horse TTAGCAAAAGCGTCCAGAAAGGAAAGTTCAGAAGGAGTCCTAGCCCTATA [2749]

Rhino TTAGCAAAAGCGTCCAGAAAGGAGAATTCAGAAGGAGCCCTAGCCCTTTA [2773]

Llama TTAGCAAAAGTGTCCAAAAA---GAATTCAGAAGGAGCCCTAGCCCTTTA [2755]

Cow TTAGTGAAAGTGTCCAAAAAGGAGAATTCAGAGGGAGCCCTGGCCCTTTC [2746]

Pig TTAGCAAAAGTGCCCAAGAAGGGGAATTTAAAAGGAGCCCTAGCCCTTTA [2761]

Hippo TTAGCAAAAATGTCCAAAAAGGAGAATTCAGAAGGAGCCCTGGCCCTTTA [2725]

Sperm\_Whale TTAGCAAAAGTGTCCAAAAAGGAGAATTCAGAAAGAGCACTGGCCCTTTA [2755]

Humpback\_Whale TTAGCAAAAGTGTCCAAAAAGGAGAATTCAGAAGGAGCCCTGGCCCTTTA [2749]

Cat TTGGCAAGAGTGTCCAGAAAGGAGAATTCAGAAGGAGCCCTAGCCCTTTA [2767]

Dog TTAGCAAAAGTGTCCAGAGTGGAGAGTTCAGCAGAAGCCCTAGCCCTTCA [2773]

Dugong TTAGTAAA---GACCAGAGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTA [2695]

Manatee TTAGTAAA---GACCAGAGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTA [2716]

African\_Elephant TTATTAAAGATGACCAGAGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTA [2719]

Asian\_Elepphant TTATTAAAGATGACCAGAGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTA [2719]

Rock\_Hyrax TTAGTAAAGATGACCAGGGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTA [2680]

Tree\_Hyrax TTAGTAAAGATGACCAGGGAAGAGAGTTCAGAAGGAACCCAAGCCCTTTG [2698]

Madagascar\_Hedgehog TTAGCAAAGATAACCAGAGAAGAGATTTCAGAAGGAGCCCTGGGCCTACA [2650]

Tenrec TTGGCAAAGATAACCAGAGAAGAGATTTCAGAAGGAGCCCTGGGCCTACA [2668]

Golden\_Mole TTAGTAAAGATGACCATAGAAGACAATTCAGAAGGAACCTAAGCCCTTTA [2695]

Long\_Eared\_Elephant\_Shrew TTAGTAAAGATGAGCAGGCCAGAGAGTTCAATAGGAACTCAAGCCGTTCA [2626]

Giant\_Elephant\_Shrew TTAGTAAA---GACCAGGCAAGAGAATTCAGAGGAAACCCAAACCCTTTA [2728]

Aardvark TTAGTAAAGATGACCAGGAAAGAGAGTTCAGAAGGAGCCTGAGCCGTTTC [2710]

Wombat ?????????????????????????????????????????????????? [2731]

[ 2960 2970 2980 2990 3000]

[ . . . . .]

Nine\_Banded\_Armadillo GTCCAT---ACAAGTTTTGCTCAGGGTCACCAAAGAAAGCCCAGGAAATT [2754]

Hairy\_Armadillo GGCCAT---ACAAGTTTGGCTCAGGGTCACCAAAGAAGGGCCAGGAAATT [2763]

Anteater GCCCAA---ACAAGTGTGGCTCAGGGTCACCAAAGAGGGGCCAGGAAATT [2805]

Sloth GCCCAA---ACA---------AGGGTCACCAAAAGACGGGCCAGGAAATT [2784]

Flying\_Squirrel TCCCAT---ACGTCTTTGGCTCGGAGTCATCAAAAAGGGGCCAGGAAATT [2859]

Mouse ACCCAT---GCATCGAAGTCTCAGAGTCTCCACAGAGCGTCTAGGAAATT [2706]

Rat ACCCAT---GCATCGAAGTCGCGGAGTCTCCACAGAGGGTCTAGGAAATT [2706]

Old\_World\_Porcupine ACCAAT---ACCACTTTGGCTCAGGGTCACCGAAGAAGGGCGAGAAAACT [2655]

Jackrabbit GGCCAT---GCATGTTTGGCTCAGAGTCA????????????????????? [2790]

Flying\_Fox GCCCAT---ACAAGTTTGTCTCAAGGTCGCCGAAGAGGGGCTAGGAAATT [2772]

Dog\_Faced\_Fruit\_Bat GCCCAT---GCAAGTTTGTCTCAAGGTCGCCCAAGAAGGGC????????? [2787]

False\_Vampire\_Bat ATCCAT---ACATGTTTAGCTCAGGGTCACCGAAGA?GG?CTAGGAAATT [2775]

Leaf\_Nosed\_Bat GCTCAC---ACACGTTTGGCTCAGGGTCACCAAAGACGGGCCAGGAAATT [2811]

Free\_Tailed\_Bat GCCCAT---ACACATTTGACTCATACTCGCCAAAGAGGGGCCAGGAAATT [2760]

Little\_Brown\_Bat GCCCAT---ACATATTTGACTCGGAGTTGCCAAAGAAGGGCCAGGAAATT [2772]

Tomb\_Bat ACCCAT---ACACATTTGGCTCAGGGTCAGCAGAGAAGGGCCGGGAAATT [2766]

Round\_Eared\_Bat GCCCAC---ACA?TCTTGGCTCGGGGTCACCCCAGAAGGGCCAGGAAACT [2742]

Human ACCCAT---ACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGAAATT [2808]

Galago GCCCAT---ATACATTTGACTCAGGCTCACCAAAGAGAGGTTAGGAAATT [2808]

Chimpanzee ACCCAT---ACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGAAATT [2808]

Gorilla ACCCAT---ACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGAAATT [2808]

Orangutan ACCCAT---ACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGAAATT [2808]

Howler\_Monkey ACCCAT---ACACATTTGGCTCAGGTTTACCAAAGAGGGGCCAAGAAATT [2826]

Rhesus ACCCAT---ACACATTTAGCTCAGGGTTACCGAAAAGAGGCCAAGAAATT [2805]

Tree\_Shrew ACTCGT---GCATGTTTGACTGAGGGTCAGCAAACAGGAGCCCAGAAATT [2694]

Flying\_Lemur GCCCAA---ACATGTTTGGCTCAGGGTCACCAAAGAGGAGCCAGGAAATT [2817]

Mole GACCAT---ACATGTTTGGCTCAGGACCACGAAAGTGGG------AAATT [2802]

Hedgehog GGCCAC---ACATGTTTGAGACAGGATCAGCAAAGAGGGGCACAAAAATC [2745]

Pangolin GTCCAT---ATGAGTTTGTCTCAGAGTCACCAAAGAAGAGCTGGGATAAT [2796]

Horse GGCCGT---ACGTGTTTGGCTCAGGGTCACCAAAGACGGGCCAGGAAATT [2796]

Rhino GCCCGT---ACATGTTTGGCT---------CAAAGAGGGGCCAGGAAATT [2811]

Llama GTGCAT---ACGCATTTGGCTCAGGGTCACCAAAGAGGGGCTAGGAAATT [2802]

Cow ACCCAT---ACACATTTGGCTCAGGGTCACCAAAGAGGGGCTGGCAAACT [2793]

Pig GCCCAC---AGACGTTTGGCTCAGGGTCACCAAAGATGGGCTAGGAAATT [2808]

Hippo GCCCAT---ACACGTTTGGCTCAGGGTCACCAAAGAAGGGCTGGGAAATT [2772]

Sperm\_Whale GCCCATCATACATGTTTGGCTCAGGGTCACGAAAGAGGGGCT-------- [2797]

Humpback\_Whale GCCCATCATACATGTTTGGCTCAGGGTCACGAAAGAGGGGCT-------- [2791]

Cat GACCAT---ACACATCTGGCTCAGGGTCACCAAACAGAGACCAGGAAGTT [2814]

Dog GACCAT---ACACGTTTGGCCCAGGGTTACCAGAGAGGGACCAAGAAATT [2820]

Dugong TCCCAT---TCAGGTTTGGCTCAGGGTCACCTAAGAGGGGCCAGGGAATT [2742]

Manatee TCCCGT---TCAGGTTTGGCTCAGGGTCACCTAAGAGGGGCCAGGGAATT [2763]

African\_Elephant TCCCAT---TCAGGTTTGGCTCAGGGTTGCCTAAGAGGGGCCAGGGAATT [2766]

Asian\_Elepphant TCCCAT---TCAGGTTTGGCTCAGGGTTGCCTAAGAGGGGCCAGGGAATT [2766]

Rock\_Hyrax TCCCAT---TCAGGTTTGGCTCAGGGCCACCTGATAGGGGCCAGGGAATT [2727]

Tree\_Hyrax TCCCAT---TCAGGTTTGGCTCAGGGCCACCTGATAGGGGCCAGGGAATT [2745]

Madagascar\_Hedgehog TCCCAT---TTAGGTTTGTCTTGGGGTCACCC?AGAGGTGCTGAAGAGTT [2697]

Tenrec TCCCAT---TTAGGTTTGACTTGGGGTCACCCAAGGGGTGCGGAAGAATT [2715]

Golden\_Mole TCCCAT---TTAGGTTTGACTCAGGGTCACTTAAGAGGTACCAGAGAATT [2742]

Long\_Eared\_Elephant\_Shrew TCTCGT---TCAGATTTGGCTCCCAGTCATCTAAGACGCGATAGGGAATT [2673]

Giant\_Elephant\_Shrew TCCCAT---TCAGATTTGACTCAGAGTCATCTAAGAAGTGGTAGGGAATT [2775]

Aardvark TCCCAT---TCAAGTTTGGCTCAGGTTCACGTAAGAGGTGCCAGGGAATT [2757]

Wombat ?????????????????????????????????????????????????? [2781]

[ 3010 3020 3030]

[ . . . ]

Nine\_Banded\_Armadillo AGACTCCTCAGAAGAGGACGTATCTAGTGAG [2785]

Hairy\_Armadillo AGACTCCTCAGAAGAGGACGTATCTAGTGAG [2794]

Anteater AGCCTCCTCAGAAG?GGAC?AGTCTAG?GAG [2836]

Sloth AGACTCCTCAGAAGAGGATGTGTCTAGTGAG [2815]

Flying\_Squirrel AGAGTCCTCAGAAGAGAGCATCTGTAGTGAG [2890]

Mouse AGAATCGTCAGAAGAGAGCGACTCCACTGAG [2737]

Rat AGAATTCTCAGAAGAGAGCGACTCCACTGAG [2737]

Old\_World\_Porcupine CGAGTCTTCTGAGGAGAGCATGTCAAGTGAG [2686]

Jackrabbit ??????????????????????????????? [2821]

Flying\_Fox AGAGTCCTCAGAAGAGGATGTGTCTAGTGAG [2803]

Dog\_Faced\_Fruit\_Bat ??????????????????????????????? [2818]

False\_Vampire\_Bat AAA?TCATCA????????????????????? [2806]

Leaf\_Nosed\_Bat AGAGTCCTCAGAAGAGGACATGTCTAGTGAG [2842]

Free\_Tailed\_Bat AGAGTCCTCAG???????????????????? [2791]

Little\_Brown\_Bat AGAGTCCTCAGAAGAGGACATGTCTAGCGAG [2803]

Tomb\_Bat AGAGCC????????????????????????? [2797]

Round\_Eared\_Bat CGAGTCCTCAGAAGAGGA????????????? [2773]

Human AGAGTCCTCAGAAGAGAACTTATCTAGTGAG [2839]

Galago AGAGTCCTCAGAAGAGAACATGTCTAGTGAA [2839]

Chimpanzee AGAGTCCTCAGAAGAGAACTTATCTAGTGAG [2839]

Gorilla AGAGTCCTCAGAAGAGAACTTATCTAGTGAG [2839]

Orangutan AGAGTCCTCAGAAGAGAACTTATCTAGTGAG [2839]

Howler\_Monkey AGAGTCCTCGGAAGAGAATTTATCTAGTGAG [2857]

Rhesus AGAGTCCTCAGAAGAGAACTTATCTAGTGAG [2836]

Tree\_Shrew AGATTCATCAGAAGAGAACCTATCTAGTGAG [2725]

Flying\_Lemur AGAGTCTTCTGAAGAGAACGTATCTAGTGAG [2848]

Mole GGAGTCCCCAGAAGAGACTATGTCTAGTGAG [2833]

Hedgehog AGAGCCCTCTGAAGATTTCATGTCTAGTGAG [2776]

Pangolin AGAGTCTTCAGAAGAGAACATGTTTAGTGAG [2827]

Horse AGAGTCCTCAGAAGAGAACACGTCTAGTGAG [2827]

Rhino AGAGTCCTCAGAAGAGAACATGTCTAGTGAG [2842]

Llama AGAGTCCTCAGAAGAGAATGTGTCTAGTGAG [2833]

Cow AGAGTC---AGAAGAGACTGTGTCTAGTGAG [2821]

Pig AGAGTCTTCAGAAGAGAGTGGGTCTAGTGAG [2839]

Hippo GGAGTCCTCAGAAGA???????????????? [2803]

Sperm\_Whale -GAGTCCTCAGAAGAGAAAGTGTCTAGTGAG [2827]

Humpback\_Whale -GAGTCCTCAGAAGAGAATGTGTCTAGTGAG [2821]

Cat AGAGTCCTCAGAAGAGAACGTGTCTAGTGAG [2845]

Dog AGAGTCCTCAGAAGAGAACATGTCTAGTGAG [2851]

Dugong AGAGTCCTCAGACGAGAACATATCTAGTGAG [2773]

Manatee AGAGTCCTCAGAAGAGAACATATCTAGTGAG [2794]

African\_Elephant GGAGCCCTCACAAGAGAACATATCTAG???? [2797]

Asian\_Elepphant GGAGCCCTCACAAGAGAACA??????????? [2797]

Rock\_Hyrax AGAGGCCTCACAAGAGAACACATCTAGCGG? [2758]

Tree\_Hyrax AGAG?CCTCACAAGAGAACACATCTAGCAA? [2776]

Madagascar\_Hedgehog AGAGTCCTTAG???????????????????? [2728]

Tenrec AGAGTCCTTAGAAGAAAGCGAAGCCAGTGAG [2746]

Golden\_Mole AGAGTCTTCAGAAGAGAACCTGTCTAGTGAG [2773]

Long\_Eared\_Elephant\_Shrew AGAGTCCTCAGAAGAGAATGTATGTA????? [2704]

Giant\_Elephant\_Shrew AGAGTCATCAGAAGA?AA????????????? [2806]

Aardvark AGAGTCCTCAGAAGAGAACATATCTAGTGAG [2788]

Wombat ??????????????????????????????? [2812]

;

END;

BEGIN ASSUMPTIONS;

CHARSET ambiguous = 2468-2551;

END;