#NEXUS

BEGIN DATA;

DIMENSIONS NTAX=30 NCHAR=6518;

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

OPTIONS MSTAXA=UNCERTAIN ;

[Different genes and ambiguous regions of the RNA alignment are given in character sets at the end of the file; scientific names, chimaeric sequences, and accession numbers are given elsewhere in Supplementary Information.]

MATRIX

[ 10 20 30 40 50 60]

[ . . . . . .]

Opossum CATAGGTTTGGTCCTAGCCTTATTATTAGTTCTAATTAGACCTACACATGCAAGTTTCCG [60]

Kangaroo CAAAGGTTTGGTCCTGGCCTTACTGTTAATTGTAGTTAGACCTACACATGCAAGTTTCCG [60]

Hedgehog TAAAGGTCTGGTCCCAGCCTTCCTATTTTCTATTAGTAGAATTACACATGCAAGTATCAG [60]

Mole AAAAGGTTTGGTCCTGGCCTTTCTATTAGCTGTCAGTAAAATTACACATGCAAGTATCCG [60]

Sloth CACAGCTTTGGTCCTGACCTTACTATTAGTCCTCAGCAAACTTACACATGCAAGCATCCG [60]

Pangolin CATAGGTTTGGTCCCAGCCTTTTTATTAGTTTATGATAAAATTACACATGCAAGTATCCG [60]

Rat CAAAGGTTTGGTCCTGGCCTTATAATTAATTGGAGGTAAGATTACACATGCAAACATCCA [60]

Capybara AACAGGTTTGGTCCTGGCCTTTTTATTAGTTGCTTACAGAATTATACATGCAAGAGTCAT [60]

Rabbit TAAAGGTTTGGTCCTGGCCTTTTTATTGTTTTGTAGCAACCTTACACATGCAAGACTCCT [60]

Round\_Eared\_Bat CACAGGTTTGGTCCCAGCCTTCCTATTAGTTGTTAGCAAAACTACACATGCAAGTATCAG [60]

Flying\_Fox CAAAGGTTTGGTCCTAGCCCTTCTATTAGCCATCAGTAGGATTACACATGCAAGTATCAG [60]

Aardvark TAAAGGTTTGGTCCTAGCCTTTCTATTAGTTGACAGTAAATTTATACATGCAAGTATCTG [60]

Elephant\_Shrew CAAAGGTTTGGTCCTAGCCTTATTATTAGTTGTCAGTAAGATTATACATGCAAGTATCCG [60]

Hyrax TAAAGGTTTGGTCCTGGCCTTCTTATTAGTTACTAGTAGGCTTATACATGCAAGCATCCG [60]

Dugong TAAAGGTTTGGTCCTGGCCTTCTTATTGGTTCTTAGCGAGCTTACACATGCAAGTATCCG [60]

Elephant CAAAGGTTTGGTCCCGGCCTTCTTATTGGTTACTAGGAAACTTATACATGCAAGTATCCG [60]

Pig CACAGGTTTGGTCCTGGCCTTTCTATTAATTCTTAATAAAATTACACATGCAAGTATCCG [60]

Cow CATAGGTTTGGTCCCAGCCTTCCTGTTAACTCTTAATAAACTTACACATGCAAGCATCTA [60]

Hippo TACAGGTTTGGTCCCAGCCTTTCTGTTAATTTTTAATAGAATTACACATGCAAGTATCCA [60]

Whale TAAAGGTTTGGTCCCAGCCTTTCTATTAGTTCTTAACAGACTTACACATGCAAGTATCCA [60]

Horse CATAGGCTTGGTCCTAGCCTTTTTATTAGTTATTAATAGAATTACACATGCAAGTATCCG [60]

Rhino CAAAGGTTTGGTCCTGGCCTTTCTATTGATTGTTAGTAAAATTACACATGCAAGCATCCG [60]

Cat CAAAGGTTTGGTCCTGGCCTTTCCATTAGTTATTAATAAGATTACACATGCAAGCCTCCG [60]

Dog TAAAGGTTTGGTCCTAGCCTTCCTATTAGTTTTTAGTAGACTTACACATGCAAGCCTCCA [60]

Human AATAGGTTTGGTCCTAGCCTTTCTATTAGCTCTTAGTAAGATTACACATGCAAGCATCCC [60]

Galago CAAAGGTTTGGTCCTGGCCTTCTTATTAGTTACCAGTAGGCCTACACATGCAAGTTGCCG [60]

Flying\_Lemur AACAGGTTTGGTCCTAGCCTTTTTATTAATTATCAGTAAAATTACACATGCAAGTATCCG [60]

Tree\_Shrew AACAGGTTTGGTCCTGGCCTTTCTATTAGTTAGTAGTAAAATTACACATGCAAGCATCCC [60]

Madagascar\_Hedgehog TAAAGGTTTGGTTCTAGCCTTTTTATTAGTTCTTAATAAAATTATACATGCAAGTATCCA [60]

Golden\_Mole TAAAGGTTTGGTCCTGGCCTTTTTATTAGTTGGTAGTAAAATTATACATGCAAGTTTCAG [60]

[ 70 80 90 100 110 120]

[ . . . . . .]

Opossum CTACCCAGTGAG-AATGCCCTTTAAGTCTTATAAAT----TAAGCA-AAAGGAGCTGGTA [114]

Kangaroo CTGCCCGGTGAA-AATGCCCTCAAAATT--AAAACT----AAATCA-ACAGGAGCGGGTA [112]

Hedgehog CTACCCAGTGCG-AATGCCCTCTAACCCTACCATTA--ATAGGTGT-AAAGGAGCGGATA [116]

Mole CGCCCCAGTGAA-AATGCCCTTG-AAGTC----ATC--ATAGACAT-AAAGGAGCCGGCA [111]

Sloth CACTCCAGTGAA-AATGCCCTTT-AGTCCCCC--------CGACCA-AAAGGAGCAGGTA [109]

Pangolin CCCTACGGTGAA-AACGCCCTTT-AGCCT-----TT--ACAAGTCA-AAAGGAGCTGGTA [110]

Rat TAAACCGGTGTA-AAATCCCTTAAAGATTTGC------CTAAAACT-TAAGGAGAGGGCA [112]

Capybara CGCCCCGGTGAA-AATGCCCTCTAAACCACAT------ACGGATA--AAAGGAGCGGGTA [111]

Rabbit CACGCCAGTGAG-AATGCCCTTAACATCAAAC-------TAGATCA-AGAGGAGCGGACA [111]

Round\_Eared\_Bat CATCCCTGTGAG-AATGCCCTAT-AAGTCATCATAT--TCCGACAA-AAAGGAGCAGGTA [115]

Flying\_Fox CACCCCGGTGAA-AACGCCCTTT-TAATCATCAG------TGATAA-AAAGGAGCGGGTA [111]

Aardvark CCTCCCAGTGAAATATGCCCTCTAAATCCTTACC-------GGATTAAAAGGAGCCGGTA [113]

Elephant\_Shrew CCAACCAGTGAA-AATGCCCTCATACTCGTCCACTACAAACGATCCCAAAGGAGCCGATA [119]

Hyrax CACTCCAGTGAA-AATGCCCTTCTAATCACAGTC-------TGACCAAAAGGAGCAGGTA [112]

Dugong CGCGCCAGTGAG-AATGCCCTTTAAATCACTCCC-------GATCATAAAGGAGCAGGTA [112]

Elephant CCCGCCAGTGAA-TACGCCTTCTAAATCATCACC-------GATCA-AAGAGAGCTGGCA [111]

Pig CGCCCCGGTGAG-AATGCCCTCC-AGATC----TTA--A-AGATCA-AAAGGAGCAGGTA [110]

Cow CACCCCAGTGAG-AATGCCCTCT-AGGTT----AT---TAAAACTA-AGAGGAGCTGGCA [110]

Hippo CACCCCAGTGAG-AATGCCCTCT-AAATC----AC---CCAGATCA-AAAGGAGCGGGTA [110]

Whale CATCCCAGTGAG-AACGCCCTCT-AAATC----AT---AAAGATTA-AAAGGAGCGGGTA [110]

Horse CACCCCAGTGAG-AATGCCCTCT-AAATCACGTCTC--TACGATTA-AAAGGAGCAGGTA [115]

Rhino CGCCCTAGTGAA-AATGCCCTCT-AAATCAC-CCCT--AACGATTA-AAAGGAGCAGGTA [114]

Cat CATCCCGGTGAA-AATGCCCTCT-AAGT--C-ACCC--AGTGACCT-AAAGGAGCTGGTA [112]

Dog CGCCCCAGTGAG-AATGCCCTTA-AAAT--C-ACCA--GT-GATCT-AAAGGAGCAGGTA [111]

Human CGTTCCAGTGAG-TTCACCCTCT-AAATCACCA-------CGATCA-AAAGGAACAAGCA [110]

Galago CACTCCAGTGAG-AATGCCCTCT-AGATCACCA-------CGACCA-AAAGGAGCAGGTA [110]

Flying\_Lemur CATCCCCGTGAA-AACGCCCTCT-AAATTAACAA------TAATCATAAAGGAGCAGGTA [112]

Tree\_Shrew CGACCCAGTGAG-AATGCCCTCT-AAGTCTACA--------GACTA-AAAGGAGCTGACA [109]

Madagascar\_Hedgehog CCCCCCAGTGAA-AATGCCCTTAAACTTACTTAT-------AATTA-AGAGGAGCAGGTA [111]

Golden\_Mole CAACCCAGTGAG-AATACCCTTTAAATCTGCTA--------GATTA-ATAGGAGTAGGTA [110]

[ 130 140 150 160 170 180]

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Opossum TCAGGCACAC-AAA-----AT-GTAGCCGATAACACCTTGCTTT-ACCACACCCCCACGG [166]

Kangaroo TCAGGCACACTT------ATAAGTAGCCCATGACGCCTTGCTTT-GCCACACCCCCACGG [165]

Hedgehog TCAAGTACACAC------ATATGTTGCTAATGACATCTTGCTTA-ACCACACCCCCACGG [169]

Mole TCAAGTACACCATAA--T---GGTAGCTAACGACGCCTTGCTTA-GCCACGCCCCCACGG [165]

Sloth TCAGGCCCACAAACCCGAT---GTAGCCCACAACACCTTGCTAG-GCCACACCCTCACGG [165]

Pangolin TCAAGCACGCCAATT--TAA-GGCAGCTAGTGACACCTTGCTTACGCCACACCCCCACGG [167]

Rat TCAAGCACAT---------AATATAGCTCAAGACGCCTTGCCTA-GCCACACCCCCACGG [162]

Capybara TCAGGCGCAC-ACCA--C-AAAGTAGCCCATAACACCTTGCTTC-GCCACACCCCTACGG [166]

Rabbit TTAAGCACAC---TA--A-TCAGTAGCTCAAGATGCCTTGCTTA-ACCACACCCCCAAGG [164]

Round\_Eared\_Bat TCAAGCACACTC-------CAAGTAGCTCACAACGCCTTGCTCA-ACCACACCCCCACGG [167]

Flying\_Fox TCAAGCACACTG-T---ACA-AGTAGCTAAAGACACCTCGCCTA-GCCACACCCCCACGG [165]

Aardvark TCAAGCTCACCTAGA-------GTAGCTCATGACGCCTTGCTAA-ACCACGCCCCCACGG [165]

Elephant\_Shrew TCAAGCACACCCAC-------GGTAGCTCAAGACATCTTGCTCA-GCCACACCCCCACGG [171]

Hyrax TCAAGCACACATTC--------GTAGCTCACAACACCTTGCATA-GCCACACCCCCACGG [163]

Dugong TCAAGCACACACTC------ATGTAGCTCATAACGCCTTGCTTA-GCCACACCCCCACGG [165]

Elephant TCAAGCACACACTCT---AAGTGTAGCTCATGACGTCTCGCCTA-GCCACACCCCCACGG [167]

Pig TCAAGCACACCTAT---AAC-GGTAGCTCATAACGCCTTGCTCA-ACCACACCCCCACGG [165]

Cow TCAAGCACAC-A-C---CCT--GTAGCTCACGACGCCTTGCTTA-ACCACACCCC-ACGG [161]

Hippo TCAAGCACACCATA---CAC-CGTAGCTCAAAACGCCCTGCTCA-GCCACACCCCCACGG [165]

Whale TCAAGCACGCTAGC---ACT-AGCAGCTCACAACGCCTCGCTTA-GCCACGCCCCCACGG [165]

Horse TCAAGCACACTAG-----AA-AGTAGCTCATAACACCTTGCTCA-GCCACACCCCCACGG [168]

Rhino TCAAGCACACTAA----AAC-AGTAGCTCACAACACCTTGCTCA-ACCACGCCCCCACGG [168]

Cat TCAAGCACACAAC----CAC-AGTAGCTCATAACACCTTGCTCA-GCCACACCCCCACGG [166]

Dog TCAAGCACACTCT------TAAGTAGCTCATAACACCTTGCTAA-GCCACACCCCCACGG [164]

Human TCAAGCACGC------AGCAATGCAGCTCAAAACGCTTAGCCTA-GCCACACCCCCACGG [163]

Galago TCAAGCACACTTCAGCCAGCAAGTAGCTCATAACACCTTGCTTA-GCCACACCCCCACGG [169]

Flying\_Lemur TCAAGCACACC-----AACTAGGTAGCTCATAACACCTTGCCTA-GCCACACCCCCACGG [166]

Tree\_Shrew TCAAGCACACT------ATTCAGTAGCTCATAACGTCTTGCTCA-ACCACACCCCCACGG [162]

Madagascar\_Hedgehog TCAAGCACACT-TA------ATGTAGCTCACAACACCTTGCTAA-GCCACACCCTCACGG [163]

Golden\_Mole TCAAGCACACCATT------AGGTAGCTAATAACACCTTGCTTA-GCCACACCCCCACGG [163]

[ 190 200 210 220 230 240]

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Opossum G-AGACAGCAGTGATTAAAATTAAGCAATAAACGAAAGTTTGACTAAGTCATAATTTACA [225]

Kangaroo G-ATACAGCAGTGACTAATATTAAGCTATAAACGAAAGTTTGACTAAATCATAACT-AAC [223]

Hedgehog G-AAACAGCAGTGATAAATATTGAGCTATAAACGAAAGTTTGACTAAGCCATATT--AAT [226]

Mole G-AAACAGCAGTGATAAAAATTAAGCTATGAACGAAAGTTTGACTAAGTTATACTGATAT [224]

Sloth G-ACACAGCAGTGACAAAAATTAAGCAATAAACGAAAGTTTGACTTAGTTATGCTAACAC [224]

Pangolin G-AGACAGCAGTGATAAAAATTAAACCATTAACGAAAGTTAGATTTAGTTATATC--ATT [224]

Rat G-ACTCAGCAGTGATAAATATTAAGCAATGAACGAAAGTTTGACTAAGCTAG--TACCTC [219]

Capybara G-AGACAGCAGTAACAAAAATTAAGCAATAAACGAAAGTTTGACTAAGTCATGTAGCTAT [225]

Rabbit G-ATACAGCAGTGATAAATATTTAGCAATGAACGTAAGTTTGACTAAGTTATGCTAC--T [221]

Round\_Eared\_Bat GTAAACAGCAGTGATAAAAATTAAGCAATAAACGAAAGTTCGACTAAGTTATGCT--AAC [225]

Flying\_Fox G-ATACAGCAGTGACAAAAATTAAGCCATGAACGAAAGTTTGACTAAGCCATACT--GAC [222]

Aardvark G-ATACAGCAGTAATAAAAATTTAGCAATGAACGAAAGTTTGACTAAGTTATACTATA-A [223]

Elephant\_Shrew G-ATACAGCAGTAGTAAAAATTAAGCAATAAACGAAAGTTTGACTAAGTTATACTG---A [227]

Hyrax G-AAACAGCAGTAATAGAAATTTAGCAATTAATGAAAGTTAGACTAAGCCATACTATACT [222]

Dugong G-ATACAGCAGTGATAGAAATTTAGCCATAAACGAAAGTTTGACTAAGCTACGCTA---T [221]

Elephant G-AAACAGCAGTAGTAAATATTTAGCAATTAACAAAAGTTAGACTAAGGTATCCTAA--T [224]

Pig G-AAACAGCAGTGATAAAAATTAAGCCATGAACGAAAGTTTGACTAAGTTATATT--AAT [222]

Cow G-AAACAGCAGTGACAAAAATTAAGCCATAAACGAAAGTTTGACTAAGTTATATT--AAT [218]

Hippo G-AAACAGCAGTGACCAAAATTAAGCCATGAACGAAAGTTTGACTAAGCCATATT--AAC [222]

Whale G-ACACAGCAGTGATAAAAATTAAGCTATAAACGAAAGTTCGACTAAGTCATGTT--AAT [222]

Horse G-ACACAGCAGTGATAAAAATTAAGCTATGAACGAAAGTTCGACTAAGTCATATT--AAA [225]

Rhino G-AGACAGCAGTGATAAAAATTAAGCAATAAACGAAAGTTTGACTAAGTTATACT--AAA [225]

Cat G-ATACAGCAGTGATAAAAATTAAGCCATGAATGAAAGTTCGACTAAGCTATATT--AAA [223]

Dog G-ATACAGCAGTGATAAAAATTAAGCCATAAACGAAAGTTTGACTAAGCCATACT--AAA [221]

Human G-AAACAGCAGTGATTAACCTTTAGCAATAAACGAAAGTTTAACTAAGCTATACTAAC-- [220]

Galago G-TAACAGCAGTGATAGACATTAAGCAATAAACGAAAGTTTGACTAAGCCATACTGACCA [228]

Flying\_Lemur G-TTACAGCAGTGATAAAAATTTAGCAATGAACGAAAGTTCGACTAAGTTATACTAAT-- [223]

Tree\_Shrew G-TTACAGCAGTGATAAAAATTAAGCTATGAACGAAAGTTCGACTAAGTTATACT----- [216]

Madagascar\_Hedgehog G-ACACAGCAGTAATAAAAATTAAGCAATTAACGGAAGTTTGACTTAGTTATATTAT--T [220]

Golden\_Mole G-TTACAGCAGTAACAAAAATTTAGCAATTAACGAAAGTTAGACTAAGTTATACTAC--T [220]

[ 250 260 270 280 290 300]

[ . . . . . .]

Opossum T-------TAGGGTTGGTCAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [278]

Kangaroo --------TAGGGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [275]

Hedgehog T-------TAGGGTTGGTAAATCTCGTCCGAGCCACCGCGGTCATACGATTAACCCATGA [279]

Mole ---------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGAATAACCCAAGT [275]

Sloth ------CCAAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAC [278]

Pangolin TA----T---GGGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTAACCCTAAT [277]

Rat TC-------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAC [272]

Capybara TA-------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAC [278]

Rabbit TT-------AGGGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [274]

Round\_Eared\_Bat CA-------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCTAAC [278]

Flying\_Fox CC----A-TAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAGT [277]

Aardvark C-------TAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [276]

Elephant\_Shrew T-------TAGGGTTGGTCAATCTCGTGCCAGCCACCGCGGTCATACGATTGACCCAAAT [280]

Hyrax T-------AAGGGTTGGTCAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [275]

Dugong A-------TAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCACACGATTAACCCAAAT [274]

Elephant A-------AAGGACTGGTCAATTTCGTGCCAGCAACCGCGGCCATACGATTAGTCCAAAT [277]

Pig T--------AGAGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [274]

Cow --------TAGGGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAGC [270]

Hippo C--------AGAGTTGGTAAATCTCGTGCCAGCCACCGCGGTCATACGATTGACTCAAAC [274]

Whale TT------AAGGGTTGGTAAACTTCGTGCCAGCCACCGCGGTCATACGATCGACCCAAAT [276]

Horse TA-------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAT [278]

Rhino C--------AGAGTTGGTAAATTTCGTGCCAGCCACCGCGGCCATACGATTAACCCAAAT [277]

Cat CA-------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGCCATACGATTAACCCAAAC [276]

Dog T--------AGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAC [273]

Human ------CCCAGGGTTGGTCAATTTCGTGCCAGCCACCGCGGTCACACGATTAACCCAAGT [274]

Galago CATCCACTGAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAGAC [288]

Flying\_Lemur ------T-TAGGATCGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTGATCCAAAC [276]

Tree\_Shrew -----ACTAAGGATTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAATCCAAAT [271]

Madagascar\_Hedgehog --------TAAAGTCGGTCAACTTCGTGCCAGCCACCGCGGTCATACGAAGGACTTG?AC [272]

Golden\_Mole C-------TAGGGTTGGTAAATTTCGTGCCAGCCACCGCGGTCATACGATTAACCCAAAC [273]

[ 310 320 330 340 350 360]

[ . . . . . .]

Opossum TAATAAA-T-AACGGCGTAAAGAGTGTTTAAGTTATAT---ACAAA--AATAAAGTTAAT [331]

Kangaroo TAACAGACA-AACGGCGTAAAGCGTGTTTAAGCCAAAA---CACACACAATAAAGCTAAG [331]

Hedgehog GAATAGGAAA-TCGGCGTAAAGAGTGTTTAGGATATTAATG------TAATGAAATTAAA [332]

Mole TAATAGATAC-ACGGCGTAAAGAGTGTTAAAGAAC--CTGGCATTGTAAATAAAGCTAAG [332]

Sloth TAATATCTA--CCGGCGTAAAATGTGTTTAGGATTTCAGAAC------AATAAAGTTCAA [330]

Pangolin TAATAAAAAA-CCGGCGTAAAAAGTGTCAAAGTGTATTTAAATC---AAATAAAATTAAG [333]

Rat TAATTATTT--TCGGCGTAAAACGTGCCAACTATAAATCTC-----ATAATAGAATTAAA [325]

Capybara TAATAAACTT-CCGGCGTAAAAAATGTTTTAGAGATATAA------AAAATAAGATTAAA [331]

Rabbit TAATAAATAT-CCGGCGTAAAGCGTGATTAGAATAAACAAC-----AAAATAAAATCAAA [328]

Round\_Eared\_Bat TAATAGACCC-ACGGCGTAAAACGTGTTTAAGAA-C--ATTAAAT--AATTAAAGCCAAA [332]

Flying\_Fox TAATAGACAT-ACGGCGTAAAACGTGTTAAGGAAACTATCCACC---CAATAAAGTTAAA [333]

Aardvark TAATAGTAAT-ACGGCGTAAAGCATGATT--AGGGAATAACAT----AAATAAAGTTAAA [329]

Elephant\_Shrew TAATGATTAA-ACGGCGTAAAGTGTGGTTAAACACTTACCAATG--TAAATAAAGTTAAA [337]

Hyrax TAATAAGCAC--CGGCGTAAAGCATGTTTAAGAGACAAAATCA----AACTAAAGCCAAA [329]

Dugong TAATAAGTAC--CGGCGTAGAGCGTGTTTAGGAGAAGACCCAT----AAATAAAGTTAAA [328]

Elephant TAATAAGCAT-ACGGCGTAAAGCGTATC--AGAAGAATTAAGA----AAATAAAGTTAAA [330]

Pig TAATAGATCC-ACGGCGTAAAGAGTGTTTAAGAAAAAAAAATCA---CAATAGAGTTAAA [330]

Cow TAACAGGAGT-ACGGCGTAAAACGTGTTAAAGCACCATA---CC---AAATAGGGTTAAA [323]

Hippo TAACAGAAAT-ACGGCGTAAAGCGTGTTAAAGAATTAAA--AGT-ACAAATAAAGTTAAA [330]

Whale TAATAGAAGC-ACGGCGTAAAGAGTGTTAAGGAGCCACA--TGA----AATAAAGTCAAA [329]

Horse TAATAAATCT-CCGGCGTAAAGCGTGTCA-AAGACTAATA-CCA---AAATAAAGTTAAA [332]

Rhino TAATAGAACT-TCGGCGTAAAGCGTGTCA-AAGATACGAC-CAC---AAATAAAGTTAAA [331]

Cat TAATAGACCC-ACGGCGTAAAGCGTGTTACAGAGAAAAAA-ATA---TACTAAAGTTAAA [331]

Dog TAATAGGCCT-ACGGCGTAAAGCGTGTTC--AAGATACTT-TTA---CACTAAAGTTAAA [326]

Human CAATAGAAG--CCGGCGTAAAGAGTGTTTTAGATCACCCCCTCC--CCAATAAAGCTAAA [330]

Galago TAATAAAAC--CCGGCGTAAAGAGTGTTTTAGATACACACA------CAATAAAGTTAAG [340]

Flying\_Lemur AAATAAAAT--TCGGCGTAAAGCGTGTTTAAGAATAAACAA-----CAAATAAAATTAAA [329]

Tree\_Shrew TAATAGATC--ACGGCGTAAAGAGTGTTTATGGTAACCTAA------CAATAAAGTCAAA [323]

Madagascar\_Hedgehog TAATAAATAC--CGGCGTAAAGCGTGATT-AAGATCTTTAAG-----CAATAAAACTAAA [324]

Golden\_Mole TAATAAATAC--CGGCGTAAAGCGTGTTC-AGGGGAAACAAAA----CAATAAAGATGAA [326]

[ 370 380 390 400 410 420]

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Opossum A-ATTAACTAAACTGTAGCACGTTCTAGTTAATATTAAAA-TACATAATAAAAATGACTT [389]

Kangaroo A-TCTAACTAAACTGTAATACGTTATAGTTAACATCAAAA-TACATGACCAAAGTAGCTT [389]

Hedgehog A-AATGACTTAGCTGTAAAAAGCTCATTTCATAAATAAAA-ACATCTACAAAAGTGATTT [390]

Mole A-CTTAACTAAGACGTAAAAATCTCCAGTTAAAGTAAAAA-CAAACTACGAAAGTGGCTT [390]

Sloth C-CGAAGCTAAGCCGTAAAAAGCTACAGCCAAAATAAAAA--CCTCAACGAAAGTGACTT [387]

Pangolin C-CCTAATCAAGCTGTAAAAAGCCTCGATTATAGTAAAAA-TAAACTATGAAAATAATTT [391]

Rat A-TCCAACTTATATGTGAAAATTCATTGTTAGGACCTAAGCCCAATAACGAAAGTAATTC [384]

Capybara C-TCTATCTAAGTTGTAAAAAACACCAGATAAAATGTAAG-TCAATAACGAAAGTAATCT [389]

Rabbit T-AACAACTAAGCTGTAGAAAGTAATAGTTGCAAACAAAAATAAACAACGAAAGTGATTT [387]

Round\_Eared\_Bat C-TACAACTACGCTGTAAAAAGCCCTAGTCACTGT-AAGC-CCCACTACGAAAGTAGCTT [389]

Flying\_Fox TCTTAGACTATGCTGTAGAAAGCTCTAGCCCAGATAAAAA-TAAACCACGAAGGTGACTT [392]

Aardvark TGTAAATCAAAGCTGTAAAAAGCTCCTGATTAACTTAAAA-TAAGACACGAAAGTTACTT [388]

Elephant\_Shrew C-TAGCTCTCAGCTGTAAAAAGCTAAAGATCTATGGTAAA-TAGACTATTAATGTAACTT [395]

Hyrax T-TCAATTCAAGCCGTAAAAAGCCAACAATTGTAATAAAA-TAATCAACGAAAGTGGCTT [387]

Dugong T-CAGATCCAAGCCGTAGAAAGCTAAAGATCAGACAAAAA-TAATCCACGAAAGTGACTT [386]

Elephant T-CTTATACTAGCTGTTTAAAGCTCAAGATAAGACATAAA-TAACCTACGAAAGTGACTT [388]

Pig T-TATAACTAAGCTGTAAAAAGCCCTAGTTAAAATAAAA--TAACCCACGAAAGTGACTC [387]

Cow T-TCTAACTAAGCTGTAAAAAGCCATGATTAAAATAAAAA-TAAATGACGAAAGTGACCC [381]

Hippo T-TCTAACTAAACTGTAAAAAGCCCTAACTAGAATAAAAA-TCTACTACAAAAGTGACTT [388]

Whale C-CTTAATTAAGCTGTAAAAAGCCCTAATTAAAATTAAGC-CAAACTACGAAAGTGACTT [387]

Horse A-CCCAGTTAAGCCGTAAAAAGCTACAACCAAAGTAAAA--TAGACTACGAAAGTGACTT [389]

Rhino A-CCCAATTGAGCTGTAAAAAGCTACAACCAAAATAAAA--TAGACTACGAAAGTGACTT [388]

Cat T-TTTAACTAGGCCGTAGAAAGCTACAGTTAACATAAAAA-TACAGCACGAAAGTAACTT [389]

Dog A-CTTAACTAAGCCGTAAAAAGCTACAGTTATCATAAAA--TAAACCACGAAAGTGACTT [383]

Human A-CTCACCTGAGTTGTAAAAAACTCCAGTTGACACAAAA--TAGACTACGAAAGTGGCTT [387]

Galago T-ACTAACTAAGCCGTAAAAAGCCCTAGTTAAAATAAAAA-TAAGCAGCGAAAACAACTT [398]

Flying\_Lemur C-CTTACCTAAACTGTAAAAAGCCATAGATAAAGGTAAAA-TAATCCACGAAAGTGACTT [387]

Tree\_Shrew T-AAAGCCCGAGCCGTAAAATGCTACCGGCCCACTAAGAA-CAA-TAACGAAAGTAACTT [380]

Madagascar\_Hedgehog A-CTATTCTATGCCGTAAAAAGCCAGAGAA-TACTTATAA-TAAATAACGAAGGTAATTT [381]

Golden\_Mole A-TATTTCTACACTGTAAAAAGTTATAGAAGTACTAAAAA-TATACTACGAAAGTGACTT [384]

[ 430 440 450 460 470 480]

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Opossum TAATATC--ACCGACTACACGAAAACTAAGACACAAACTGGGATTAGATACCCCACTATG [447]

Kangaroo TAA-CCAT-GCTGAAGACACTACAGCTAAGAGACAAACTGGGATTAGATACCCCACTATG [447]

Hedgehog CATAGGA--TCTTATTACACGTGAGCTAAGACCCAAACTAGGATTAGATACCCTATTATG [448]

Mole TA-TATTATTCTGATCACACGATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [449]

Sloth TAGCAA--ATCCGAATACACTATAGCTAGGATTCAAACTGGGATTAGATACCCCACTATG [445]

Pangolin TAATAAA--ACCCA-CACACGATAGCTAAGATCCAAACTGGGATTAGATACCCCACTATG [448]

Rat TAATCATTTATATAATGCACGATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [444]

Capybara TAATACC--TCTGAATACATGAAAGCTAAGGCTCAAACTGGGATTAGATGCCCCACTATG [447]

Rabbit TATACTC--TTCGAACTCACGATAGCTAAGGCCCAAACTGGGATTAGATACCCCACTATG [445]

Round\_Eared\_Bat TAAATCC--TCTGAATACACGACAGCTAAGACCCAAACTGGGATTAGATACCCCACTATA [447]

Flying\_Fox TAGACAA--TCCGATCACACGATAGCTAAGACACAAACTGGGATTAGATACCCCACTATG [450]

Aardvark TACCACT--CCTGAATTCATGATAGCTAGGATACAAACTGGGATTAGATACCCCACTATG [446]

Elephant\_Shrew TACTTAT--AGTGAACCCACGATAGCTAAGATACAAACTGGGATTAGATACCCCACTATG [453]

Hyrax TATAACA--TCTGAACACATGATAGCTAAGACACAAACTGGGATTAGATACCCCACTATG [445]

Dugong TATCAGC--TCTGAACACACGATAGCTAAGACACAAACTGGGATTAGATACCCCACTATG [444]

Elephant TAATAAT--CCTAAACATACGATAGCTAGGGTACAAACTGAGATTAGATACCTCACTATG [446]

Pig TAATAAT--CCTGA-CACACGATAGCTAGGACCCAAACTGGGATTAGATACCCCACTATG [444]

Cow TACAATA--GCCGA-CGCACTATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [438]

Hippo TAACAATA--CTGACCACACGATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [446]

Whale TAATATAA-TCTGATCACACGACAGCTAAGATCCAAACTGGGATTAGATACCCCACTATG [446]

Horse TAATACC--TCTGACTACACGATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [447]

Rhino TAATACA--ACCGCCCACACGACAGCTAGGACCCAAACTGGGATTAGATACCCCACTATG [446]

Cat TAACACC--TCCGACTACACGACAGCTAAGACCCAAACTGGGATTAGATACCCTACTATG [447]

Dog TATAATA-ATCTGACTACACGATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [442]

Human TAACAT--ATCTGAACACACAATAGCTAAGACCCAAACTGGGATTAGATACCCCACTATG [445]

Galago TAA-GC--CTCTGAAAACACGACAGTTAAGACCCAAACTGGGATTAGATACCCCACTATG [455]

Flying\_Lemur TACTAATAATCTGAATACACGACAGTTGAGACCCAAACTGGGATTAGATACCCCACTATG [447]

Tree\_Shrew TATTAC--ATCAGACTACACGATAATTAAGACCCAAACTGGGATTAGATACCCCACTATG [438]

Madagascar\_Hedgehog TATAACT--TCTGAACCCACGATAGCTAAGAAACAAACTGGGATTAGATACCCCACTATG [439]

Golden\_Mole TATTACA--CCTTACAACACGATAGCTAAGACACAAACTGGGATTAGATACCCCACTATG [442]

[ 490 500 510 520 530 540]

[ . . . . . .]

Opossum CTTAGTAATAAACTAAAATAATTT-AACAAACAAAAT-TATTCGCCAGAGAACTACTAGC [505]

Kangaroo CTTAGCCTTAAACCTAGATAATT-TAAT-AACAAAAT-TATTCGCCAGAGAACTACTAGC [504]

Hedgehog CTTAGCCCTAAACTTAGACAGTTACTT--AACAAAAC-TGTACGCCAGAGAACTACGAGC [505]

Mole CTTAGCCCTAAACTAAGACAATCCAACT-AACAAGAT-TGTTCGCCAGAGAACTACTAGC [507]

Sloth CCTAGCCCTAAACCAAGACACTTAACC-AAACCAAAG-TGTCTGCCAGAGTACTACTAGC [503]

Pangolin CTTAGCCTTAAACCTAAATAATTAATT-AAACAAAAT-TATTCGCCAGAGTACTACTAGC [506]

Rat CTTAGCCCTAAACCTTAATAATTAAACCT-ACAAAAT-TATTTGCCAGAGAACTACTAGC [502]

Capybara CTTAGCCATAAACATAAAAGTTCACA--TAACAAGAA-CTTTCGCCCGAGAACTACTAGC [504]

Rabbit CTTAGCCCTAAACTTTGATAATTTCA--TAACAAAAT-TATTCGCCAGAGAACTACAAGC [502]

Round\_Eared\_Bat CTTAGCCATAAACCCAAAGAATTAACACA-ACAAGAT-TCTTCGCCAGAGTACTACTAGC [505]

Flying\_Fox CTTAGCCCTAAACCTAAGTAGCCTAAACA-ACGACGC-TACTCGCCAGAGTACTACTAGC [508]

Aardvark CCTAGCCATAAACTTAAATATTTCTCA---ACAAAAT-TATTCGCCAGAGAACTACAAGC [502]

Elephant\_Shrew CTTAGCCGTAAACTTTGATAATTACTA---ACAAAAA-TATCCGCCAGAGAACTACAAGC [509]

Hyrax CTCAGCCTTAAACCCCAGCATCTATTA---ACGAAGC-TGTTCGCCAGAGAACTACCAGC [501]

Dugong CTTAGCCCTAAACCTCGATAGCTTCCA---ACAAAGC-TACCCGCCAGAGAACTACTAGC [500]

Elephant CCTAGCCCTAAACTTTGATAGCTACCTTT-ACAAAGC-TATCCGCCAGAGAACTACTAGC [504]

Pig CCTAGCCCTAAACCCAAATAGTTACATA--ACAAAAC-TATTCGCCAGAGTACTACTCGC [501]

Cow CTTAGCCCTAAACACAGATAATTACATAA-ACAAAAT-TATTCGCCAGAGTACTACTAGC [496]

Hippo CTTAGCCCTAAACACAGATAATTCCAAA-AACAAAAC-TATTCGCCAGAGTACTACTAGC [504]

Whale CTTAGTCGTAAACCCCAATAGTCACAAA--ACAAGAC-TATTCGCCAGAGTACTACTAGC [503]

Horse CTTAGCCCTAAACTAAAATAGCTTACCACAACAAAGC-TATTCGCCAGAGTACTACTAGC [506]

Rhino CCTAGCCTTAAACCTAAATAATTTCTCC-AACAAAAT-TATTCGCCAGAGTACTACTAGC [504]

Cat CTTAGCCCTAAACTTAGATAGTTACCCTAAACAAAAC-TATCCGCCAGAGAACTACTAGC [506]

Dog CTTAGCCCTAAACATAGATAATTTTAC--AACAAAA-TAATTCGCCAGAGGACTACTAGC [499]

Human CTTAGCCCTAAACCTCAACAGTTAAAT-CAACAAAAC-TGCTCGCCAGAACACTACGAGC [503]

Galago CTTAACCGTAAACCTAAATATCTAATC--AACAAAGT-TATTCGCCAGAGCACTACAAGC [512]

Flying\_Lemur CTCAACCACAAACCTAAGCAGCTAATC-AAATAAAAC-TGCTCGCCAGAGTACTACCAGC [505]

Tree\_Shrew CTTAATTGTAAACTTAGGTAATTCCAC--AACAAAAT-TACTCGCCAGAGTACTACGTGC [495]

Madagascar\_Hedgehog CTTAGCCTTAAACCTAGATAGTCTAC---AACAAGACATATCCGCCAGAGAACTACTAGC [496]

Golden\_Mole CTTAGCCCTAAACTTTAATAATTTAA---AACAAAAT-TATTCGCCAGAGAACTACTAGC [498]

[ 550 560 570 580 590 600]

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Opossum AATTGCTTAAAACTCAAAGGACTTGGCGGTGCCCTAAACCCACCTAGAGGAGCCTGTTCT [565]

Kangaroo CAATGCTTAAAACTCAAAGGACTTGGCGGTGCC-TAAACCCACCTAGAGGAGCCTGTTCT [563]

Hedgehog TACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATACCCC-CTAGAGGAGCCTGTTCT [564]

Mole AATAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCCTCTAGAGGAGCCTGTTCT [567]

Sloth AATAGCTTGAAACTCAAAGGACTTGACGGTGCTTCACATCCCTCTAGAGGAACCTGTCCT [563]

Pangolin AATAGCTTGAAACTCAAAGGACTTGGCGGTGCTTCATATCCCTCTAGAGGAGCCTGTCCT [566]

Rat TACAGCTTAAAACTCAAAGGACTTGGCGGTACTTTATATCCATCTAGAGGAGCCTGTTCT [562]

Capybara AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCACCTAGAGGAGCCTGTTCT [564]

Rabbit CAAAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATACCCACCTAGAGGAGCCTGTTCC [562]

Round\_Eared\_Bat CAAAGCTTAAAACTCAAAGGACTTGGCGGTGCTTCACATCCTTCTAGAGGAGCCTGTTCT [565]

Flying\_Fox AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTACATCCCTCTAGAGGAGCCTGTTCT [568]

Aardvark AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCATCTAGAGGAGCCTGTTAT [562]

Elephant\_Shrew CACTGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATACCC-CCTAGAGGAGCCTGTTGC [568]

Hyrax AAAAGCTAAAAACTCAAAGGACTTGGCGGTGCTTCACACCCACCTAGAGGAGCCTGTCCA [561]

Dugong AAAAGCTTAAAACTCAAAGGACTTGACGGTGCTTCACATCCCCCTAGAGGAGCCTGTCCC [560]

Elephant CAGAGCTTAAAACTTAAAGGACTTGGCGGTGCTTTATATCCACCTAGGGGAGCCTGTCTC [564]

Pig AACTGCCTAAAACTCAAAGGACTTGGCGGTGCTTCACATCCACCTAGAGGAGCCTGTTCT [561]

Cow AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCTTCTAGAGGAGCCTGTTCT [556]

Hippo AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTCATACCCCTCTAGAGGAGCCTGTTCT [564]

Whale AACAGCCTAAAACTCAAAGGACTTGGCGGTGCCTCATACCCATCTAGAGGAGCCTGTTCT [563]

Horse AACAGCCTAAAACTCAAAGGACTTGGCGGTGCTTTACATCCCTCTAGAGGAGCCTGTTCC [566]

Rhino AACAGCCTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCCCCTAGAGGAGCCTGTTCC [564]

Cat AATAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTACATCCCTCTAGAGGAGCCTGTTCT [566]

Dog AATAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATATCCCTCTAGAGGAGCCTGTTCT [559]

Human CACAGCTTAAAACTCAAAGGACCTGGCGGTGCTTCATATCCCTCTAGAGGAGCCTGTTCT [563]

Galago AACAGCTTAAAACTCAAAGGACTTGGCGGTGCTTTATACCCC?CTAGAGGAGCCTGTTCT [572]

Flying\_Lemur AACGGCCCAAAACTCAAAGGACTTGGCGGTGCTTCACACCCCCCTAGAGGAGTCTGTTCT [565]

Tree\_Shrew CACAGCCCAAAACTCAAAGGACTTGGCGGTGCTTTATATCCACCTAGAGGAGCCTGTTCT [555]

Madagascar\_Hedgehog AA-AGCTAAAAACTTAAAGAACTTGGCGGTGCTTCACACCCACCTAGAGGAGCCTGTTAT [555]

Golden\_Mole AATAGCCTAAAACTTAAAGGACTTGGCGGTGCTTTATATCCACCTAGAGGAGCCTGTTAT [558]

[ 610 620 630 640 650 660]

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Opossum ATAATCGATAAACCCCGATAAACCAGACCTTATCTTGCCAATACAGCCTATATACCGCCA [625]

Kangaroo ATAATCGATAAACCCCGATAAACCCCACCTTTTCTTGCCAATCCAGCCTATATACCGCCA [623]

Hedgehog GTAATCGATAAACCCCGATCAACCTCACCAATCTTTGCTAATTCAGCCTTTATACCGCCA [624]

Mole GTAATCGATAAACCCCGATAAACCTCACCAACCCTTGCTAATTCAGCCTATATACCGCCA [627]

Sloth ATAATCGACGAACCCCGATAAACCTCACCACCCCTTGCCAACACAGCCTATATACCGCCA [623]

Pangolin ATAAACGATAAACCCCGATAAACCTCACCAATCCTAGCTAATGCAGCCTATATACCGCCA [626]

Rat ATAATCGATAAACCCCGTTCTACCTTACCCCTTCTCGCTAATTCAGCCTATATACCGCCA [622]

Capybara ATAATCGATAAACCCCGATACACCTCACCACTTCTTGCTAATTCAGCCTATATACCGCCA [624]

Rabbit GTAATCGATAAACCCCGATAAACCCTACCACTCTTTGCCAACTCAGCCTATATACCGCCA [622]

Round\_Eared\_Bat ATTATCGATAAACCCCGATAAACCTCACCAACTCTTGCTAACTCAGCCTATATACCGCCA [625]

Flying\_Fox GTAATCGATAAACCCCGATAAACCTCACCAACTCTTGCTAATACAGCCTATATACCGCCA [628]

Aardvark GTAATCGATAAACCCCGATATACCTCACCATCACTTGCCAATACAGCCTATATACCGCCA [622]

Elephant\_Shrew ATAATCGATAAACCCCGATAAACCCTACCATCACTTGCTAAATCAGTCTATATACCGCCA [628]

Hyrax ATAATCGATAAACCCCGATAAACCTCACCACCATTTGCCTGCCCAGTCTATATACCGCCA [621]

Dugong ATAATCGATAAACCCCGATAAACCTCACCCCCACTTGCTAATTCAGCCTATATACCGCCA [620]

Elephant GTAACCGATGAACCCCGATATACCTTACCGTCACTTGCTAATTCAGTCCATATACCACCA [624]

Pig ATAATCGATAAACCCCGATAGACCTTACCAACCCTTGCCAATTCAGCCTATATACCGCCA [621]

Cow ATAATCGATAAACCCCGATAAACCTCACCAATTCTTGCTAATACAGTCTATATACCGCCA [616]

Hippo ATAATCGATAAACCCCGATAAACCTCACCAACCCTTGCTAATCCAGTCTATATACCGCCA [624]

Whale GTAACCGATAAACCCCGATCAACCTCACCAACCCTTGCTACTTCAGTCTATATACCGCCA [623]

Horse ATAATCGATAAACCCCGATAAACCCCACCATCCCTTGCTAATTCAGCCTATATACCGCCA [626]

Rhino ATAACCGATAAACCCCGATAAACCCCACCAACCCTTGCTAATTCAGCCTATATACCGCCA [624]

Cat ATAATCGATAAACCCCGATATACCTCACCATCTCTTGCTAATTCAGCCTATATACCGCCA [626]

Dog ATAATCGATAAACCCCGATAAACCTCACCACCTTTCGCTAATTCAGTCTATATACCGCCA [619]

Human GTAATCGATAAACCCCGATCAACCTCACCACCTCTTGCT----CAGCCTATATACCGCCA [619]

Galago ATAATCGATAAACCCCGATAAACCTCACCACCCCTTGCTAATTCAACCTATATACCGCCA [632]

Flying\_Lemur ATAATCGATAAACCCCGATACACCTTACCACCTCTTGCCAACCCAGCCTGTATACCGCCA [625]

Tree\_Shrew GTAATCGATAAACCCCGATACACCTCACCATCTCTTGCTAATACAGCCTATATACCGCCA [615]

Madagascar\_Hedgehog GTAATTGATACACCCCACTAAACCCTACCACCACTTGCTAAGTCAGTCTATATACCGCCA [615]

Golden\_Mole ATAATCGATAAACCCCGATAAACCTCACCACTTCTTGCTAATCCAGTCTATATACCGCCA [618]

[ 670 680 690 700 710 720]

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Opossum TCGTCAGCTAACCTTTAA-AAAGAATTACAGTAAGCAAAATCAT-ACAACATAAAAACGT [683]

Kangaroo TCGTCAGCTAACCCCAAC-AGGGATAAAAAGTAAGCAAGATCAT-CAACCATAAAAACGT [681]

Hedgehog TCTTCAGCGAACCCTAAA-AAGGAATAAAAGTAAGCACAATGATTCAAACATAAATAAGT [683]

Mole TCTTCAGCAAACCCTTAA-AGGGAGCCACAGTAAGCACAAGTATA-TA-CATAAAAACGT [684]

Sloth TCTCCAGCAAACCTTGAA-AAAGCACCACAGTAAGCACAATTATA-ATGCATAAATACGT [681]

Pangolin TCCTCAGCAAACCCTAATAAAGGAACCATAGTAAGCAAGATCATTGAAACATAAAAACGT [686]

Rat TCTTCAGCAAACCCTAAA-AAGGCACTAAAGTAAGCACAAGAAC--AAACATAAAAACGT [679]

Capybara TCTTCAGCAAACCCAATC-ATGGCAACAAAGTAAGCACAAACATA-TTACATAAAAACGT [682]

Rabbit TCTTCAGCGAACCCTAAA-AAGGAGCAAAAGTAAGCTCAATTAC--CACCGTAAAAACGT [679]

Round\_Eared\_Bat TCTTCAGCAAACCCTAAA-AAGGAACCACAGTAAGCCCAACCATA-ATACATAAAAACGT [683]

Flying\_Fox TCTTCAGCAAACCCTAAA-AAGGAAACAAAGTAAGCAAAACCATG-AAACATAAAAACGT [686]

Aardvark TCTTCAGCAAACCCTTAC-AAGGAATAATAGTAAGCCAAATTATT--ACCATAAAAACGT [679]

Elephant\_Shrew TCTTCAGCAAACCCTTAT-AAGGAACAATAGTAAGCTTAAACGCC--CCCGCAAAAACGT [685]

Hyrax TCTTCAGCAAACCCTTAA-AAGGAAGTAAAGTAAGCACAACAATA--TCCATAAAAAAGT [678]

Dugong TCTTCAGCCAACCCTTAA-AAGGTGCAAAAGTAAGCTCAATGATA--GCCATAAAAAAGT [677]

Elephant TCTTCAGCAAACCCCCAT-AGGGCACAAAAGTGAGCTTAATCATA-ACCCATGAAAAAGT [682]

Pig TCTTCAGCAAACCCTAAA-AAGGAACAATAGTAAGCACAATCATA-GCACATAAAAACGT [679]

Cow TCTTCAGCAAACCCTAAA-AAGGAAAAAAAGTAAGCGTAATTATG-ATACATAAAAACGT [674]

Hippo TCTCCAGCAAACCCTAA-AAAGGACTAAAAGTAAGCTCAACTATT-ACACATAAAGACGT [682]

Whale TCTTCAGCAAACCCTAA--AGGGAG-AAAAGTAAGCATAACCATC-CTACATAAAAACGT [679]

Horse TCTTCAGCAAACCCTAAACAAGGTACCGAAGTAAGCACAAATATC-CAACATAAAAACGT [685]

Rhino TCTTCAGCAAACCCTAAA-AAGGAACTAAAGTAAGCACAAGTATA-AAACATAAAAACGT [682]

Cat TCTTCAGCAAACCCTAAA-AAGGAAGAAAAGTAAGCACAAGTATCTTAACATAAAAAAGT [685]

Dog TCTTCAGCAAACCCTCAA-AAGGTAGAACAGTAAGCACAATCATTTT-ACATAAAAAAGT [677]

Human TCTTCAGCAAACCCTGATGAAGGCTACAAAGTAAGCGCAAGTACC--CACGTAAAGACGT [677]

Galago TCCTCAGCAAACCCTGCT-AAGGCAACAAAGTAAGCAAGAGAATC-ACACATTAAAACGT [690]

Flying\_Lemur TCTTCAGCAAACCCCTCC-AGGGTACAAAAGTAAGCCCAAGAATC--CACATAAAAACGT [682]

Tree\_Shrew TCTTCAGCAAACCCTAAA-AAGGATGCCAAGTAAGCCCAATCATT-AACCATAAAAAAGT [673]

Madagascar\_Hedgehog TCCTCAGCAAACCCC-AA-AAGGCATATCAGTAAGCATAATGATAAGA-CATAAAAACGT [672]

Golden\_Mole TCTTCAGCAAACCCTTAA-AAGGCAAAACAGTAAGCTTAATAATTTC--CATAAAAACGT [675]

[ 730 740 750 760 770 780]

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Opossum TAGGTCAAGGTGTAGCATATGATAAGGAAAGTAATGGGCTACATTCTCTACT--ATAGAG [741]

Kangaroo TAGGTCAAGGTGTAGCATATGAAAAGGTAAGTAATGGGCTACATTTTCTAAA--TTAGAA [739]

Hedgehog TAGGTCA-GGTGCAGCCTATAGATTGGAATGAAATGGGCTACATTCTTTATT----AAAA [738]

Mole TAGGTCAAGGTGTAGCTAATGAGTTGGGAAGAAATGGGCTACATTTTCTATAT-CTAGAA [743]

Sloth TAGGTCAAGGTGTAGCCCATGAGGTGGGAAGAGATGGGTTACATTTTCTT------AAAA [735]

Pangolin TAGGTCAAGGTGTAGCTTATGGATTGGGAAGAGATGGGCTACATTTTCTAA----AACAG [742]

Rat TAGGTCAAGGTGTAGCCAATGAAGCGGAAAGAAATGGGCTACATTTTCTTTTCC-CAGAG [738]

Capybara TAGGTCAAGGTGTAGCTAATGAAGTGGGAAGAAATGGGCTACATTTTCTTACCA-AAGAA [741]

Rabbit TAGGTCAAGGTGTAGCCCATAGAGTGGAGAGCAATGGGCTACATTTTCTACTTC--AGAA [737]

Round\_Eared\_Bat TAGGTCAAGGTGTAGCCTATGAGTTGGAAAGAAATGGGCTACATTTCCTACA-ACAAGGC [742]

Flying\_Fox TAGGTCAAGGTGTAGCCTATGAGTTGGAAAGAAATGGGCTACATTTTCT-------A--- [736]

Aardvark TAGGTCAAGGTGTAGCCAATGTGATGGCAATAAATGGGCTACATTTTCTATTT--TA-AG [736]

Elephant\_Shrew TAGGTCAAGGTGTAACCTATGTGATGGAAAACAATGGGCTACATTTTCT---A--CATAA [740]

Hyrax TAGGTCAAGGTGTAGCTAATATGGTGGACTTAGATGGGCTACATTCTTT---A--CACAT [733]

Dugong TAGGTCAAGGTGTAGCCCATGTGGAGGTCTAAGATGGGCTACATTTTCTCTTA--GAGAA [735]

Elephant TAGGCCGAGGTGTCGCCTACGTGACGGTCAAAGATGGGCTACATTTTCTATTA--TAGAA [740]

Pig TAGGTCAAGGTGTAGCTTATGGGTTGGAAAGAAATGGGCTACATTTTCTACA--TAAGAA [737]

Cow TAGGTCAAGGTGTAACCTATGAAATGGGAAGAAATGGGCTACATTCTCTACA-CCAAGAG [733]

Hippo TAGGTCAAGGTGTAACCTATGGGCTGGGAAGAAATGGGCTACATTTTCTAGA-ACAAGAA [741]

Whale TAGGTCAAGGTGTAACCCATGGGTTGGGAAGTAATGGGCTACATTTTCTAAG-CTAAGAA [738]

Horse TAGGTCAAGGTGTAGCCCATGGGATGGAGAGAAATGGGCTACATTTTCTACCC-TAAGAA [744]

Rhino TAGGTCAAGGTGTAGCTTATGGGATGGAGAGAAATGGGCTACATTTTCTATTT-TAAGAA [741]

Cat TAGGTCAAGGTGTAGCTCATGAGATGGGAAGCAATGGGCTACATTTTCTAAAA-TTAGAA [744]

Dog TAGGTCAAGGTGTAACTTATGAGGTGGGAAGAAATGGGCTACATTTTCTACC--CAAGAA [735]

Human TAGGTCAAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACC--CCAGAA [735]

Galago TAGGTCAAGGTGTAGTCCATGAGGTGGGAAGAAATGGGCTACATTTTCTACC--TACCAT [748]

Flying\_Lemur TAGGTCAAGGTGCAGCCCATGAGATGG-AAGAAATGGACTACATTTTCTAAT--CCAGAA [739]

Tree\_Shrew TAGGTCAAGGTGTAGCCTATGGGATGGGAAGTCATGGGCTACATTTTCT-------G-AT [725]

Madagascar\_Hedgehog TAGGTCAAGGTGTAACCCATGTGGTGGAACCTAATGGGCTACATTTTCTAGCA--TTAGA [730]

Golden\_Mole TAGGTCAAGGTGTAGCCTATGTAGTGGTATTCAATGGGCTACATTTTCTGAT---CCAGA [732]

[ 790 800 810 820 830 840]

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Opossum CATA-------------ACGAATCATATTATGAAAC--TAAAATGCTTGAAGGAGGATTT [786]

Kangaroo AACA-------------ACGAATTATCTCATGAAACT-TGAGCAATATGAAGGAGGATTT [785]

Hedgehog AGTATA-----------ACGGAAATTATTATGAAAC-T-AAAAA-T-TGAAGGAGGATTT [783]

Mole CACTT----------TAACGAAAGTCTTTATGAAAC--GAAAGA-C-TAAAGGAGGATTT [789]

Sloth -AGAAAAC-------CCACGGAAACTTCTGTGAAACT-ACAAAAGC-CAAAGGAGGATTT [785]

Pangolin AATA-----------AGACGAATACCCTTATGAAA-A-TAAGGG-T-TAAAGGAGGATTT [787]

Rat AACATT-----------ACGA-AACCTTTATGAAACT-AAAGGA---CAAAGGAGGATTT [782]

Capybara CAT-AA-----------ACGTAAATCTTTATGAAACC-TAAAGA-T-AGAAGGAGGATTT [786]

Rabbit TAT--------------ACGAAAGCCCTTATGAAACT-CTAAGGGC-CAAAGGAGGATTT [781]

Round\_Eared\_Bat CATTTACAATCT-TTACACGAAAGCTCCCGTGAAA-T-CAGGATC--TAAAGGTGGATTT [797]

Flying\_Fox -ACATAGAACA---TCAACGAAAATTTTCGTGAAA-C-CGAAAA-T-AGAAGGAGGATTT [788]

Aardvark AACATATC------CCTACGAAAGCCCAAATGAAACC-A--A-GGC-TAAAGGAGGATTT [785]

Elephant\_Shrew GAACAC-----------ACGAACTCTTATATGAAATT-A--TCAGA-TAAAGGAGGATTT [785]

Hyrax AAAGCAA---------TACGAATGTTACCATGAAATT-A--GTAAC-TGAAGGAGGATTT [780]

Dugong CAATCAA-------CCAACGGACGTCACTATGAAACA-A--GTGAC-CAAAGGAGGATTT [784]

Elephant CAGACAA----------ACGGATATCACTCTGAAATG-G--GTGGT-TGAAGGCGGATTT [786]

Pig TATCCAC-------CACACGAAAGTTTTTATGAAA-C-TAAAAA-C-CAAAGGAGGATTT [786]

Cow AATCAA---------GCACGAAAGTTATTATGAAA-C-CAATAA-C-CAAAGGAGGATTT [780]

Hippo CACAACCC---ACCCGAACGAAAACTCCTATGAAAGC-TAGGAA-C-TAAAGGAGGATTT [795]

Whale CATCCCCT-ATACTCACACGAAAGTTTTTATGAAACT-TAAAAA-C-TAAAGGAGGATTT [794]

Horse CAAGAACTTTAACCCGGACGAAAGTCTCCATGAAACT-GG-AGA-C-TAAAGGAGGATTT [800]

Rhino CAACAATT---ACCCAAACGAAGGTTTTTATGAAACC-AA-AAA-C-TAAAGGAGGATTT [794]

Cat CACCC------------ACGAAGATCCTTACGAAACT-AA-GTA-T-TAAAGGAGGATTT [788]

Dog CATTT-----------CACGAATGTTTTTATGAAATT-AA-AAA-C-TGAAGGAGGATTT [780]

Human AA-------------CTACGATAGCCCTTATGAAACT-TAAG-GGT-CGAAGGTGGATTT [779]

Galago AGAACAAT-------TAACGCTAGCCCATATGAAA-C-AATT-GGC-AAAAGGCGGATTT [797]

Flying\_Lemur CAATTTAC-------CCACGACAACCTTCATGAAAAC-TGAA-GGC-CAAAGGAGGATTT [789]

Tree\_Shrew AAAGAACA-------TCACGCCAACCCGTATGAAAAC-TATG-GGT-GTAAGGAGGATTT [775]

Madagascar\_Hedgehog AAACCCT--------CAACGAAAGTACTAATGAAATT-TC-AGTAC-TAAAGGAGGATTT [779]

Golden\_Mole ACATTCT--------TAACGGATATTTTTATGAAATT-A--AAAAT-TAAAGGAGGATTT [780]

[ 850 860 870 880 890 900]

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Opossum AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-TAGGCAATAGGG-CGCGCACACAC [843]

Kangaroo AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAA-TAGGCAATAGGG-CGCGCACACAC [842]

Hedgehog AGCAGTAAATT-AAGAGTAGAGTGCTTAATTGAAT-TTGGCAATGAAG-CATGCACACAC [840]

Mole AGTAGTAAATT-AAGAATAGAGTGCTTAATTGAAT-TAGGCCATGAAG-CACGCACACAC [846]

Sloth AGAAGTAACTT-AAGAATAGAGAGCTTAACTGAACTCGGGCCATGAAG-CACGTACACAC [843]

Pangolin AGTAGTAAGAC-AAGAATAGAGAGCTTGACTGAAT-TAGGCCCTGAAG-CACGCACACAC [844]

Rat AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-AGAGCAATGAAG-TACGCACACAC [839]

Capybara AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAC-TAGGCAATGAAG-CACGTACACAC [843]

Rabbit AGTAGTAAATT-AAGAATAGAGTGCTTAATTGAAC-AAGGCCATGAAG-CACGCACACAC [838]

Round\_Eared\_Bat AGCAGTAAGCT-AAGAATAGAGTGCTTAGCTGAAT-CAGGCCATGAAG-CACGCACACAC [854]

Flying\_Fox AGCAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-AAGGCCATGAAG-CACGCACACAC [845]

Aardvark AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-AAGGCCATGAAG-CACGCACACAC [842]

Elephant\_Shrew AGAAGTAAGCC-AGGAATAGAGAGCCTGACTGAAC-TTGGCTATGAAG-CACGCACACAC [842]

Hyrax AGCAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-CAGGCCATGAAG-CACGCACACAC [837]

Dugong AGCAGTAAATT-AAGAATAGAGAGCTTAATTGAAC-TAGGCCATGAAG-CACGCACACAC [841]

Elephant AGTAGTAAACT-AAGAATAGAGAGCTTAATTGAAC-AAGGCTATGAAG-CGCGTACACAC [843]

Pig AGCAGTAAATC-AAGAATAGAGTGCTTGATTGAAT-AAGGCCATGAAG-CACGCACACAC [843]

Cow AGCAGTAAACT-AAGAATAGAGTGCTTAGTTGAAT-TAGGCCATGAAG-CACGCACACAC [837]

Hippo AGTAGTAAATC-AAGAGTAGAGTGCTTGATTGAAC-AAGGCTATGAAG-CACGCACACAC [852]

Whale AGTAGTAAATC-AAGAGCAGAGTGCTTGATTGAAT-AAGGCCATGAGGGCACGCACACAC [852]

Horse AGCAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-CAGGCCATGAAG-CGCGCACACAC [857]

Rhino AGCAGTAAATT-AAGAATAGAGAGCTTAATTGAAC-CAGGCCATAAAG-CACGCACACAC [851]

Cat AGTAGTAAATTTGAGAATAGAGAGCTCAATTGAAT-CGGGCCATGAAG-CACGCACACAC [846]

Dog AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-AGGGCCATGAAG-CACGCACACAC [837]

Human AGCAGTAAACT-AAGAGTAGAGTGCTTAGTTGAAC-AGGGCCCTGAAG-CGCGTACACAC [836]

Galago AGTAGTAAATT-AAGAATAGAGAGCTTAATTGAAT-AGGGCAATGAAG-CACGCACACAC [854]

Flying\_Lemur AGCAGTAAATT-AAGAATAGAGAGCTCAATTGAAA-AAGGCCATGAAG-CACGCACACAC [846]

Tree\_Shrew AGCAGTAAACC-GGAAATAGAGAGTCCAGTTGAAT-AAGGCCATAAAG-CACGCACACAC [832]

Madagascar\_Hedgehog AGTAGTAAACT-GAGAATAGAGTGCTCAGTTGAAA-CTGGCCATGAAG-CGCGCACACAC [836]

Golden\_Mole AGTAGTAAACT-AAGAATAGAGAGCTTAGTTGAAT-TAGGCCATGAAG-CACGTACACAC [837]

[ 910 920 930 940 950 960]

[ . . . . . .]

Opossum CGCCCGTCACCCTCCTCAACATAAT-AAT----CCAACATACC--TAAT-A-C-AATTAT [893]

Kangaroo CGCCCGTCACCCTCCTCGACAAAA--CCT----TGCAAATAAC--TAATAAAAATAAACA [894]

Hedgehog CGCCCGTCACCCTCTTCAAGCATATTAAGTCACCAACCTATATAATTAATGTTATAATGA [900]

Mole CGCCCGTCACCCTCCTCAAGTACTAAAGC-----CAGTCAATATACATAATATATAGGCA [901]

Sloth CGCCCGTCACCCTCCTCAATCCA-CCAAACAACCAAAAACCATATTACCCACCCATACGG [902]

Pangolin CGCCCGTCACCCTCTTCAAATTTCCAAAA-----AACAGTAAATATATTAATGAATAACA [899]

Rat CGCCCGTCACCCTCCTCAAATTAGATTGACATTCACATATACA--TAATTTCACTAACAA [897]

Capybara CGCCCGTCACCCTCCTCAAATACCCAAAAATTTAAAAATCAA----AAATTAACAAA--- [896]

Rabbit CGCCCGTCACCCTCCTCAAGT--GACAAATATTTACTTATACC--TAATTACATAAATAG [894]

Round\_Eared\_Bat CGCCCGTCACCCTCCTCAAATAA-CCCAATGTTAACCCCTAAACCTATTAACTCAAACCA [913]

Flying\_Fox CGCCCGTCACCCTCCTCAAGTAT-AAAGATACAAATACTCAACCCTATTAATAAATGTAC [904]

Aardvark CGCCCGTCACCCTCCTCAACTACTA-GTA---TTACTAAAAATAT-TTCAC-----TACA [892]

Elephant\_Shrew CGCCCGTCACCCTCCTCAAGTGTTT-AAG--ACTAACAACCCTAT--TACA-----CTAA [892]

Hyrax CGCCCGTCACCCTCCTCAAGTACCT-AAT--TCTACTCAATACAT---AAA-----CACA [886]

Dugong CGCCCGTCACCCTCCTCAAGTATTC-ATA-ACCATTCCACCATAT-ATGAT-----CCTA [893]

Elephant CGCCCGTCACTCTCCTCAAGTATCC-CCACATCAAACAATCATATTACAGA-----TTTA [897]

Pig CGCCCGTCACCCTCCTCAAGCATGTAGTAATA---AAAATAACCTATATTCAATTACACA [900]

Cow CGCCCGTCACCCTCCTCAAATAGAT-TCAGTG--CATC-TAACCCTATTTAAACGCACTA [893]

Hippo CGCCCGTCACCCTCCTCAAATAACA-CAAACCCATAAACATAATAGCTAGACAAAACCAA [911]

Whale CGCCCGTCACCCTCCTCAAGTACCC-CAGCTATAAACCCCAGTTCGTTAACTCAGGCCAA [911]

Horse CGCCCGTCACCCTCCTTAAATATCACAAATCA--TAACATAACATAA-AACCGTGACCCA [914]

Rhino CGCCCGTCACCCTCCTTAAATACCCCGAGCCA--CAACACAACATATTAACTACGCATTA [909]

Cat CGCCCGTCACCCTCCTCAAGTGG---TAACTC--CCA-AAAAAACCTATTTAAATTATCA [900]

Dog CGCCCGTCACCCTCCTCAAGTAA---TAAGAC-ACAA-CCATAACCATATTAACTTAACT [892]

Human CGCCCGTCACCCTCCTCAAGTA--TACTTCAAAGGAC----ATTTAACTAAAAC-CCCTA [889]

Galago CGCCCGTCACCCTCCTCAAACTA-CTTTAGAACCTTA----ACATACATAATCCATACCA [909]

Flying\_Lemur CGCCCGTCACCCTCCTCAAATAA-CACCGCAGACAAA----CCTTTACCAGCTC-TGCAA [900]

Tree\_Shrew CGCCCGTCACCCTCCTCGAATGC-CCC-----CCCCC----CCATTCATAATTATTGACA [882]

Madagascar\_Hedgehog CGCCCGTCACCCTCCTTAATTTAC--ATA-TTATAAGTAACCTCCATAAACAGCTACTTA [893]

Golden\_Mole CGCCCGTCACCCTCCTCAAGTAACT-ATA-TTCTATTAAACATATTTTATC-----CTAA [890]

[ 970 980 990 1000 1010 1020]

[ . . . . . .]

Opossum TCATT----A-AAGAGGAGAAAAGTCGTAACACGGTAAGTGTACTGGAAAGTGCACTTGG [948]

Kangaroo CAA---------AGAGGAGAAAAGTCGTAACATGGTAAGTGTACTGGAAAGTGCACTTGG [945]

Hedgehog TAATCACATGCAAGAAGAGATAAGTCGTAACAAGGTAAGTATACTGGAAAGTGTACTTGG [960]

Mole ATAA---ATACAAGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [958]

Sloth TACAC-AATCCTAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [961]

Pangolin AGAA------TGAGAAGAGATAAGTCGTAACAAGGTAAGCATACTGGAAGGTGTGCTTGG [953]

Rat ATT-----TATGAGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [952]

Capybara --------TATGAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [948]

Rabbit ACAA---GCATAAGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [951]

Round\_Eared\_Bat CATA---CTATTAGAGGAGACAAGTCGTAACAAGGTAAGCGTACTGGAAAGTGCGCTTGG [970]

Flying\_Fox ACGC---ATATGAGAGGAGATAAGTCGTAACAAGGTAAGCGTACTGGAAAGTGCGCTTGG [961]

Aardvark TAAAC--GTACTAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [950]

Elephant\_Shrew TACAA--ACATAAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [950]

Hyrax TAAAA--ATTCAAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [944]

Dugong ATAGC--ATATGAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [951]

Elephant AACAA--ATACAAGAGGAGACAAGTCGTAACAAGGTAAGCGTACTGGAAAGTGCGCTTGG [955]

Pig ACCA----TGCAAGAAGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [956]

Cow GCTA----CATGAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [949]

Hippo AT---------GAGAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [962]

Whale GCAA-TTATACGAGAGGAGACAAGTCGTAACAAGGTAAGCATACCGGAAGGTGTGCTTGG [970]

Horse AACA----TATGAAAGGAGACAAGTCGTAACAAGGTAAGTATACCGGAAGGTGTACTTGG [970]

Rhino CACG----TATAAAAGGAGACAAGTCGTAACAAGGTAAGCGTACTGGAAAGTGCGCTTGG [965]

Cat CACC----CACAAGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [956]

Dog AAAA----CACAAGAGGAGACAAGTCGTAACAAGGTAAGCATACCGGAAGGTGTGCTTGG [948]

Human CGCAT-TTATATAGAGGAGACAAGTCGTAACATGGTAAGTGTACTGGAAAGTGCACTTGG [948]

Galago CTAAA-TTAC-TAGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [967]

Flying\_Lemur CAAAC-CAACCTAGAGGAGATAAGTCGTAACAAGGTAAGTGTACTAGAAAGTGCACTTGG [959]

Tree\_Shrew TGCA---TAC-AAGAGGAGATAAGTCGTAACAAGGTAAGTGTACTGGAAAGTGCACTTGG [938]

Madagascar\_Hedgehog TACAC--CCCATAAAGGAGACAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [951]

Golden\_Mole TAAAT--ACA--AGAGGAGATAAGTCGTAACAAGGTAAGCATACTGGAAAGTGTGCTTGG [946]

[ 1030 1040 1050 1060 1070 1080]

[ . . . . . .]

Opossum AATA--TCAAAATGTAGCTTGATTTATTAAAGCATTTAGTTTACACCTAAAAGATTTCAG [1006]

Kangaroo AACA--TCAAAATGTAGCTTAA--CAT-AAAGCATTTAGCTTACACCTAAAAGATTTCAG [1000]

Hedgehog ATTA--TCGGAGTGTAGCTTAA---GATAAAGCGACTGCCTTACACCCAGGAAATTCTAA [1015]

Mole ATTAA-CCAAAGTGTAGCTTAA---ACAAAAGCACCTGGCTTACACCCAGAAGATTTCAT [1014]

Sloth AATAA-TCAAAGTGTAGCTTAAA---CAAAAGTATCTGGCTTACACCCAGAAGATTTCAA [1017]

Pangolin ATAA--TCAAAGTGTAGCTTAA---AC-AAAGCATCTGGTCTACACCCAGAAGATTTCAA [1007]

Rat AATAA-TCACAGTGTAGCTTAAT--CACAAAGCATCTGGCCTACACCCAGAAGAATTCAT [1009]

Capybara A--AA-C-AAAGTGTAGCTTAA---AACAAAGCGTCCGGCCTACACCCGGAAGATTTCAA [1001]

Rabbit ACATT-TCAGAGCGTAGCTTAA---CTTAAAGCACTTGGCTTACACCCAAGAGATTTCAT [1007]

Round\_Eared\_Bat ATAAC-CCAAAGTATAGCTTAA---CCTAAAGCATCTAGCTTACACCTAGAAGATATCAT [1026]

Flying\_Fox ATGAA-TCAAAGTGTAGCTTAT---AC-AAAGCACCTGGCCTACACCCAGAAGATTCCAT [1016]

Aardvark ATAA-TTCAAAGTGTAGCTTAAA--CATAAAGCATCTGGCCTACACCCAGAAGATTTCAA [1007]

Elephant\_Shrew AGTA-TTCAAAGTGTAGCTTAA----CTAAAGCATCTGGTCTACACCCAGAAGATTTCA- [1004]

Hyrax AAAAACTCAAAGTGTAGCTTAA---CATAAAGCACCTGGCCTACACCCAGAAGATTTCA- [1000]

Dugong ATTA-CTCAAAGTGTAGCTTAA---CATAAAGCGCCTGGCCTACACCCAGGAGATTTCA- [1006]

Elephant ATAA-CTCAAAGTGTAGCTTAA---CAAAAAGCATCTGGCTTACACCTAGAAGACCTCA- [1010]

Pig ATTA--CCAAAGCATAGCTTAA---ACTAAAGCACCTAGTTTACACCTAGAAGATCCCAC [1011]

Cow ATAAA-TCAAGATATAGCTTAA---AC-AAAGCATCCAGTTTACACCTAGAAGACTTCAT [1004]

Hippo ACAAA-TCAAAGCATAGCTTAG--ATTTAAAGCATCTAGTTTACACCCAGAAGATTTCAC [1019]

Whale ACAAA-ACAAGATATAGCTTAA---AC-AAAGCATGTAGTTTACACCTAGAAGATTCCAC [1025]

Horse ATAA--CCAAAGTGTAGCTTAA---AC-AAAGCATCCAGCTTACACCTAGAAGATTTCAC [1024]

Rhino ACAA--TCAAAGTGTAGCTTAA---AC-AAAGCACCTAGCTTACACCCAGGAGATTTCAT [1019]

Cat ATAA---CAAGATGTAGCTTAA---AC-AAAGCATCTGGCTTACACCCAGAAGATTTCAT [1009]

Dog ATTAA-TCAAAGTGTAGCTTAA---CT-AAAGCGTCTGGCCTACACCCAGAAGATTTCAT [1003]

Human ACGAA-CCAGAGTGTAGCTTAAC-A--CAAAGCACCCAACTTACACTTAGGAGATTTCAA [1004]

Galago ATCA--CCAAAGTGTAGCTTAAC-AACTAAAGCATCCGGCTTACACCCGGAAGATTTCAG [1024]

Flying\_Lemur ACACA-CCAAAGTGTAGCTTAAC-C--AAAAGCACCCGGCCTACACCCGGAAGATTTCAT [1015]

Tree\_Shrew AAAATCCCAAAACGTAGCTTAAC-C-TAAAAGCATCTGGCTTACACCCAGAAAATATCAC [996]

Madagascar\_Hedgehog AAAACCTCAAAACGTAGCTTAA----TAAAAGCATCTGGCCTACACCCAGAAGATTTCA- [1006]

Golden\_Mole AAAAC-TCAAAGTGTAGCTTAA----TTAAAGCATCTGGCCTACACCCAGAAGATTTCA- [1000]

[ 1090 1100 1110 1120 1130 1140]

[ . . . . . .]

Opossum TC-TAATCTGACCATTTTGAACTAAC---CACAGCCCTAAAATCAT------ATCAAATT [1056]

Kangaroo CTAATC-CTGACCATTTTGAGCCAAT---TTAAGCCCATCCAACTA------TCAAATC- [1049]

Hedgehog TTATA---TGGACACTTCGAGCCAAAT---CTAGCCTACTAAA---------TTATTTCT [1060]

Mole TAAAA---TGACCACTTTGAACTAAAG---CTAGCCCAATCGACCAC-----AA--ATTC [1061]

Sloth CTCAAC--AGACCACTTTGAGCCAGAC---CTAGCCCTACACA------ACCCTTAACTC [1066]

Pangolin TTTCA---TGACCACTTTGAACAAATA---CTAGCCCAATCAA--------TATATAACG [1053]

Rat AAAAAA--TGAACACTTTGAACTAACC---CTAGCCCTACAACCA-------ACCAACAT [1057]

Capybara CCATCA-ACGACCACTTTGAGCCTACT---CTAGTCCAAACCCCA-------ATCATCAC [1050]

Rabbit TTAC----TGACCACTCTGAGCCAACA---CTAGCCCT-ATGAAAC------TAACACTG [1053]

Round\_Eared\_Bat TTAC-A-ATGACTACTTTGAGCCGTAC---CTAGCCCCAAACC------TAACAAAACAC [1075]

Flying\_Fox ACAACA-ATGGCCACTTTGAACAAATG---CTAGCCC-ATACA------AATATAAACCC [1065]

Aardvark TAACCA-ATGACCACTTTGAACTAAAG---CTAGCCCCACCCT------ACCACA-ATTT [1056]

Elephant\_Shrew -TTATA-ATGACCGCTTTGAACTAGAC---CTAGCCCACTCCT------TAC-TAAACTA [1052]

Hyrax ACCCCA-TTGACCACTTTGAACTAAAA---CTAGCCTGTCCAC------CCAACAAACCA [1050]

Dugong CACGCA-CTGACCACTTTGAACCAACC---CTAGCCCGACTCT------CCC-CAAATAA [1055]

Elephant TTTACA-ATGATCACTTTGAACTAAAT---CTAGCCCTACCAA------CCC-TACACTC [1059]

Pig AATGTA--TGGGTACTTTGAACCAAAG---CTAGCTCAA-CAT-----ACTAAACAAATA [1060]

Cow TCATTA--TGAATATCTTGAACTAGAC---CTAGCCCAAAGAT----ACCCTCTCGACTA [1055]

Hippo AATAAG--TGAATGCCTTGAACTAAAG---CTAGCCCAACT--------ACCCCACCCCA [1066]

Whale AGCCCG--TGTATATCTTGAACTAGCC---CTAGCCCACAC-C-----CTCCCCACCTCT [1074]

Horse TCAAAA--TGAACACTTTGAACTAAAG---CTAGCCCAAACAAT-------ACCTAATTC [1072]

Rhino ACAAAA--TGACCACTTTGAACTAAAG---CTAGCCCAAATAA--------CCCCGACCC [1066]

Cat ATTAAA-CTGACCATCTTGAGCTAAAG---CTAGCCCAAACATC-------TACAAACAC [1058]

Dog TACTTA--TGGCCACTTTGAACAAAAG---CTAGCCCAACTAAC-------CCCAAACTT [1051]

Human CTTAAC-TTGACCGCTCTGAGCTAAAC---CTAGCCCCAA-AC------CCACTCCACCT [1053]

Galago CCCA----TGACCACTTTGAACTACCATGACTAGCCCAAAC--------TACCTAAACTA [1072]

Flying\_Lemur ACCAAC--TGACCACTTTGAACCAGCC---CTAGCCCAAACAA------CCTAAACACGA [1064]

Tree\_Shrew TTCAA---TGATCGTTTTGAACTGACT---CTAGCCCAAACA-------CACATCCACCT [1043]

Madagascar\_Hedgehog -TGACA-CTGACCGTTTTGAACTAAAT---CTAGCCCAACTCA------AATAGAAACTT [1055]

Golden\_Mole -CTCAC-ATGACCACTTTGAACTAATC---CTAGCCTAAC-CA------AACCTCAACAA [1048]

[ 1150 1160 1170 1180 1190 1200]

[ . . . . . .]

Opossum AACTAACTAC--TTTTTCA-ATTT-AAACCATT-T-TA----ATTATCCTAGTATAGGTG [1106]

Kangaroo AAATATCAC---AAACACCTAATCTAAACCATTCAACC----TG--TCTAAGTATAGGTG [1100]

Hedgehog ACTTATTAACCCACTAAATTTAATTAAAACATTCATTT--ATAACTTACCAGTATAGGAG [1118]

Mole AACTATTAC---ATGAACATAAAACAAAACATTTACT---TAGTAAA---AGTATAGGAG [1112]

Sloth AACTACCAACA-TCAGCCC--AAACCAACCAAACCATTTACACCAATAAAAGTATATGCG [1123]

Pangolin AATAATCAA---AGAATCATAAACCAAAACATTCACC------AACCTAAAGTATAGGCG [1104]

Rat AACTAAACCCCCACA----TAAACTAAAACATTTAACTC-A------AAAAGTATTGGAG [1106]

Capybara AACTACTACACAAGTC--GTAAAACAAAACATTTATCCA-------AAAAAGTATAGGAG [1101]

Rabbit AACCAGAGTAATTAG---CTAAACTAAACCATTCACCCC-ATA--TTAAAAGTATAGGAG [1107]

Round\_Eared\_Bat AACTATCAA---AACCAACTAAAACAAAACATTTATT---ATACTACTAAAGTATAGGAG [1129]

Flying\_Fox AACTAGCAA---TACAAAATAAAACAAAACATTTACC---C--TGACTAAAGTATAGGAG [1117]

Aardvark ACTCCCCCC---ACCTTAATAGACTAAAACATTTAGACCC-----ATAAAAGTATAGGAG [1108]

Elephant\_Shrew AACTATATT---CTAACCATAAAATAAAACATTCACTAAAT-------GTAGTATAGGAG [1102]

Hyrax AACTACCCT---A-AATACTAAAATAAAACATTCAACTATTAACCTTAAAAGTATAGGAG [1106]

Dugong AATTATCAC---AGCCAATTAAATCAAAACATTTATTTACTTA--CCAGAAGTATAGGAG [1110]

Elephant AATTCTCAT---ATTATATTAAATCAAAACATTCACTTAC-----CAAAAAGTATAGGAG [1111]

Pig CAAAAATAC---ACCAAAATAAAATAAAACATTCACCT--AAC--ATTAAAGTATAGGAG [1113]

Cow AACAACCAA---GATAGAATAAAACAAAACATTTAAT---CCCAATTTAAAGTATAGGAG [1109]

Hippo C------------TATAAATAAGATAAAGCATTTAACCA--CCAACTTAAAGTATAGGAG [1112]

Whale A-CTACCAC---AAATCAATCAAATAAAACATTTA-CC--ATCCCTTCAAAGTATAGGAG [1127]

Horse AATTACCCT---TAGTCACTTAACTAAAACATTCACC---AAACCATTAAAGTATAGGAG [1126]

Rhino AACTACTAA--AAACTCACTTGAACAAAGCATTTACCCA-AATCCATTAAAGTATAGGAG [1123]

Cat AACTAACAC---TAGAAAATAAAACAAAACATTTAGTC--ACCTTATAAAAGTATAGGAG [1113]

Dog AAGTATTAC---AGACACATAAAATAAAACATTTAGTT--AAACAATAAAAGTATAGGAG [1106]

Human TACTACCAGA--CAACCTT--AGCCAAACCATTTACCC--AAAT----AAAGTATAGGCG [1103]

Galago AATCACCTTTC-TTCACTT--AATTAAAACATTTACCA--TCTTAGTATTAGTATAGGAG [1127]

Flying\_Lemur AAAGATCCACC-TAACCCTTAAATTAAACCATTCAGTC--AACCT-TAAAAGTATAGGAG [1120]

Tree\_Shrew AATAATAACAA-TCTATTA--AACTAAAGCATTTAAC------CATCAGAAGTATAGGAG [1094]

Madagascar\_Hedgehog AACCAA-AT---AAAACTTTAATATAAAACATTTGTAGACATA------AAGTATAGGAG [1105]

Golden\_Mole AACTAT-AT---AAATACATAAATCAAAACATTTATTTGCTTAT--TCAAAGTATAGGAG [1102]

[ 1210 1220 1230 1240 1250 1260]

[ . . . . . .]

Opossum ATAGAAAAGATA-TAAT---AGGAGCTATAGTTTATAGTACCGCAAGGGAAA-AATGAAA [1161]

Kangaroo ATAGAAAAGACTGACTCC--AGGCGCAATAACG-CAAGTACCGCGAGGGAAA-CATGAAA [1156]

Hedgehog ATAGAAATTTATAC-------AGCGCAATAGAA-AAAGTACCGTAAGGAACG-ACTGAAA [1169]

Mole ATAGAAAT-TACAA-----TTGGCGCTATAGAG-AAAGTACCGCAAGGGAAC-GAGTGAA [1164]

Sloth ATAGAAATTAT----TA-ACAGGCGCCATAGAG-ATAGTACCGCAAGGGAAA-GATGAAA [1176]

Pangolin ATAGAAATTATATT-----ATGGAGCTATAGAA-ACAGTACCGCAAGGGAAA-GATGAAA [1157]

Rat AAAGAAATTTACTTA-C-C-AAGAGCTATAGAG-AAAGTACCGCAAGGGAAATGATGAAA [1162]

Capybara ATAGAACATTTT------TAAGGCACTATAGAG-ATAGTACCGCAAGGGAAA-GATGAAA [1153]

Rabbit ATAGAAATTTATAT----CCAGGCGCTATAGAG-AAAGTACCGTAAGGGAAA-GATGAAA [1161]

Round\_Eared\_Bat ATAGAAATTCTAAT-----AGGGCGCTATAGAG-AAAGTACCGCAAGGGGAT-GATGAAA [1182]

Flying\_Fox ATAGAAATTTTAAT-----CTGGCGCTATAGAG-AAAGTACCGCAAGGGAAC-GGTGAAA [1170]

Aardvark ATAGAAATTTTACT-----GAGGAGCTATAGCGCACAGTACCGTAAGGGAAA-GATGAAA [1162]

Elephant\_Shrew ATAGAAACATAACG-----CAGGAGCAATAGAG-ATAGTACCGTAAGGGAAA-GATGAAA [1155]

Hyrax ATAGAAAGTTTACT-----CA-GCGCCATAGAG-ACAGTACCGCAAGGGAAA-GATGAAA [1158]

Dugong ATAGAAACTGAAAT-----CAGGCGCTATAGAG-ATAGTACCGCAAGGGAAA-GATGAAA [1163]

Elephant ATAGAAATTTCACT-----AAGGCGCAATAGAG-ATAGTACCGCAAGGGAAT-GATGAAA [1164]

Pig ATAGAAATTTTT-A--T-CCTGACGCTATAGAG-ATAGTACCGTAAGG-AAA-GATGAAA [1166]

Cow ATAGAAAT-CTAAG----TACGGCGCTATAGAG-AAAGTACCGCAAGGGAAC-GATGAAA [1162]

Hippo ATAGAAATCTGAAACCA-TTTGGCGCAATAGAG-ATAGTACCGTAAGGGAATGATGAAAG [1170]

Whale ATAGAAATTTAAATATC-AGTGGCGCTATAGAG-ATAGTACCGTAAGG-AAA-GATGAAA [1183]

Horse ATAGAAATTTTAAC-----TTGGCGCTATAGAG-AAAGTACCGTAAGGGAAC-GATGAAA [1179]

Rhino ATAGAAATTTTTAA-----CTGGCGCTATAGAG-AAAGTACCGCAAGGGAAC-GATGAAA [1176]

Cat ATAGAAATTTAAC------TTGGCGCTATAGAG-AAAGTACCGCAAGGGAAA-GATGAAA [1165]

Dog ATAGAAATTTTAA------TTGGAGCGATAGAG-ATAGTACCGTAAGGGAAT-GATGAAA [1158]

Human ATAGAAATTGA----AA-CCTGGCGCAATAGAT-ATAGTACCGCAAGGGAAA-GATGAAA [1156]

Galago ATAGAAAACCC----AC-TTAGGCGCTATAGAG-ATAGTACCGCAAGGGAAA-GATGAAA [1180]

Flying\_Lemur ACAGAAATTTT----AC-ACAGGCGCTATAGAG-ACAGTACCGTAAGGGAAA-GATGAAA [1173]

Tree\_Shrew ATAGAAACTCT----AC-TAAGGCGCTATAGAG-AAAGTACCGCAAGGGAAA-GATGAAA [1147]

Madagascar\_Hedgehog ATAGAAATATTCCAT---AGATGCGCTATAGAG-ATAGTACCGTAAGGGAAA-A?TGAAA [1160]

Golden\_Mole ATAGAAATTTAATA----ATTAGAGCTATAGAG-ATAGTACCGCAAGGGAAA-GATGAAA [1156]

[ 1270 1280 1290 1300 1310 1320]

[ . . . . . .]

Opossum GA-TAAATT---ATAGTAATTAAAAG-CAAAGATTAACTCTTGTACCTTTTGCATAATGA [1216]

Kangaroo GACTA-ATTA--TAAGCACTAAAAAG-CAAAGATTAAACCTTCTACCTTTTGCATAATGA [1212]

Hedgehog GAA-TAT----TAAAGTA--AAATAG-CAAAGATTAACCTTGAT--CTTT--GATAATGA [1217]

Mole AGA-ATATATTAAAAGTAAAAAAAAG-CAAAGTTTAACCCTTCTACCTTTTGCATAATGA [1222]

Sloth GAA---CAACTAACAGCACAAAACAG-CAAAGACCAACCCTTTTACCTTTTGCATAATGA [1232]

Pangolin GAT-TGAA--TGATTGTACAAAATAG-CAAAGATTAACACTTGTACCTTTCGCATAATGA [1213]

Rat GA--CTAATTT-AAAGTAAAAACAAGACAAAGATTAAACCT-GTACCTTTTGCATAATGA [1218]

Capybara GA--TAAATTACACAGTAAAAAAAAG-CATAGATTACCCCTACTACCTTTTGTATAATGA [1210]

Rabbit GA--TTAGTT-AATAGCACAAAAAAG-CAGAGATTACTTCTCTTACCTTTTGCATAATGA [1217]

Round\_Eared\_Bat GAA-AATA--CCAAAGCAATAAATAG-CAAAGTTTACCCCTTGTACCTTTTGCATAATGA [1238]

Flying\_Fox GAC-AAAT--TAAAAGTAAAAAACAG-CAAAGCTTACCCCTTGTACCTTTTGCATAATGA [1226]

Aardvark GAT---AAATTTATAGTGAAAAACAG-CAAAGATTAGCCCTTCTACCTTTAGCATAATGA [1218]

Elephant\_Shrew GAT---T-CCTAAAAGTAAGAAACAG-CAGAGATAACCCCTCCTACCTTTTGCATAATGG [1210]

Hyrax GAT---AATTTAATAGTACAAAACTG-CAAAGATTAACCCTTGTACCTTTTGCATAATGA [1214]

Dugong GAT---GAAGTCACAGTACAAAACAG-CAAAGATTACCCCTTCTACCTTTTGCATAATGA [1219]

Elephant GAT---AGTTTAATAGTAAAAAATAG-CAAGGATTAACCCCTTTACCTTTTGCATAATGA [1220]

Pig GAA-TAAA-ATAAAAGTAAAAAAAAG-CAAAGATTACCCCTTCTACCTTTTGCATAATGG [1223]

Cow GAA-AAAAACTAAAAGTATAAAAAAG-CAAAGATTACCCCTTGTACCTTTTGCATAATGA [1220]

Hippo AAG-CAAC---AAAAGTATCAAAAAG-CAAAGATCACACCTTGTACCTTTCGCATAATGA [1225]

Whale GAA-AAAC-CTAAAAGTAATAAAAAG-CAAAGCTTACCACTTGTACCTTTTGCATAATGA [1240]

Horse GA--TGCA-TTAAAAGTACTAAACAG-CAAAGCTTACCCCTTTTACCTTTTGCATAATGA [1235]

Rhino GA--AGTC-TTAAAAGTACTAAACAG-CAAAGCTTACCCCTTTTACCTTTTGCATAATGA [1232]

Cat GAT-AAAA-TTAAAAGCACCACACAG-CAAAGATTACCCCTTGTACCTTTTGCATAATGA [1222]

Dog GA---CATCTTAACAGTATTAAACAG-CAAAGATTACCCCTTCTACCTTTTGCATAATGA [1214]

Human AAT---TATAACCAAGCATAATATAG-CAAGGACTAACCCCTATACCTTCTGCATAATGA [1212]

Galago GAATGTAATTCTCAAGTTTAAAAAAG-CAAAGCTTACAACTTATACCTTTTGCATAATGA [1239]

Flying\_Lemur GAA---AAGACCCTAGTACTAAACAG-CAAAGACTTCCCCTTGTACCTTTTGCATAATGA [1229]

Tree\_Shrew GA---TCAGTCAACAGTAAAACAAAG-CAAAGATTAACCCTTGTACCTTTTGCATAATGA [1203]

Madagascar\_Hedgehog GAT---AACTTAATAGTACCAAAAAG-CAAAGCTTAAACCTTATACCTTTTGCATAATGA [1216]

Golden\_Mole GAT---AAGTTTAAAGTACTAAAAAG-CAAAGATTAACCCTTTTACCTTTTGCATAATGA [1212]

[ 1330 1340 1350 1360 1370 1380]

[ . . . . . .]

Opossum TTTAGCCAGTC-A-ACACGGACAAAAAGAATT---ATGCCCGACATCCC-GAAATTAAGT [1270]

Kangaroo TTTAGCCAGT--CAAACCGGACAAAAAGAATT---ACGCCCGCCTTCCC-GAAATCAAGT [1266]

Hedgehog TTTAGCCAGAA-AAAAATTAACAAAGAGAACT--AAAGCTAATTACCCCGGAAACCAGAC [1274]

Mole GCTAGCTAGCA-GA-CCTTAGCAAAGAGAACT--TAAGTTAAGCCCCCC-GAAACCAGAC [1277]

Sloth ACTAACCAGAA-AAACCTTGACAAAGAGCCCT--TCAGCCAAAAACCCC-GAATCCAGAC [1288]

Pangolin ATTAGCTAGAA-AGCATCTGGCAAAGAGAACT--TAAGCCAGGAATCCC-GAAACTAGAC [1269]

Rat ATTAACTAGAA-AATCCTTAACAAAAAGAATT--TAAGCTAAGAACCCC-GAAACCAAAC [1274]

Capybara ATTAACTAGAA-CCAACTTGACAAAGTGAACT--GAAGCCAACCACCCC-GAAACCAAAC [1266]

Rabbit ATTAGCTAGAA-AATCCTTAGCAAAAAGAATT--TTAGTTAAGAACCCC-GAAACCAGAC [1273]

Round\_Eared\_Bat TTTAACTAGAA-CCAACCCAGCAAAGAGACCT--TAAGTTAGCAACCCC-GAAACCAGAC [1294]

Flying\_Fox TTTAACTAGAG-T-AACTCGACGAAGAGAACT--AAAGCCGAATAGCCC-GAAACCAGAC [1281]

Aardvark ATTAACTAGAATAAG-CTTGGCAAAATGAATT--ACAGTCAACTTTCCC-GAAACCAGAC [1274]

Elephant\_Shrew ATTAGCTAGAAAATA-GTTGACAAAAAGATCTTATTAGCCAACATCCCC-GAAACCAGAC [1268]

Hyrax ATTAACTAGAACAAG-CCTGACAAAGAGAACT--GTAGCCAGGAACCCC-GAAACCGGAC [1270]

Dugong GTTAACTAGAATGA--TCTGACAAAGCGAACT--GTAGCCAGAAGCCCC-GAAATCGGAC [1274]

Elephant ATTAACTAGAAAAA--TCTGACAAAGAGAACT--ATAGCCAGAAACCCC-GAAATCAGAC [1275]

Pig TTTAACCAGAA-AAAATCTAACAAAGAGAACT--TTAGCTAGATACCCC-GAAACCAGAC [1279]

Cow ATTAACTAGTATAAGACTTAACAAAATGAATT--TTAGCTAAGCAGCCC-GAAACCAGAC [1277]

Hippo TTTAACTAGCA-AAACCTTAGCAAAGAGAACT--TAAGCTAAGCCACCC-GAAACCAGAC [1281]

Whale CTTAACTAGTA-ATAAATTAGCAAAGAGACCT--TAAGTTAAATTACCC-GAAACCAGAC [1296]

Horse TTTAACTAGAA-TAAACTTAGCAAAGAGAACT--TAAGCTAAGCACCCC-GAAACCAGAC [1291]

Rhino TTTAACTAGAA-CAATTTTAGCAAAGAGAACT--TAAGTTAAACCCCCC-GAAACCAGAC [1288]

Cat GTTAGCTAGAA-CAA-CCTAACAAAGAGAACT--TCAGCTAGGCCCCCC-GAAACCAGAC [1277]

Dog ACTAGCCAGAAACAA-CTTAACAAAGAGAACT--TAAGCTAAGCTCCCC-GAAACCAGAC [1270]

Human ATTAACTAGAA-ATAACTTTGCAAGGAGAGCC--AAAGCTAAGACCCCC-GAAACCAGAC [1268]

Galago TTTAACTAGAA-CAG-CTTTACAAAGAGACCT--CAAGCCAATGACCCC-GAAACCAGAC [1294]

Flying\_Lemur ACTAACCAGAA-CAACTTTGACAAAGAGAACT--TCAGCC-AATACCCC-GAAACCAGAC [1284]

Tree\_Shrew ACTAGCCAGAA-CAATTTTAGCAAAGAGAACT--TAAGTTAAATACCCC-GAAACCAGAC [1259]

Madagascar\_Hedgehog GTAAACTAGAAAATT-TTTGACAAAGGGAACT--TTAGCCAAAAACCCC-GAAACCAGAC [1272]

Golden\_Mole ATTAACTAGACTAA--CTTGACAAAGAGACCT--TAAGCCAAAATTCCC-GAAACCAGAC [1267]

[ 1390 1400 1410 1420 1430 1440]

[ . . . . . .]

Opossum GAGCTACTATAAGACAGTTACTAA-TGAACCAACTCATCTATGTAGCAAAATAGTGAGAA [1329]

Kangaroo GAGCTACTATAAAACAGTTGACA---GAACCAACTCATCTATGTAGCAAAATAGTGAGAA [1323]

Hedgehog GAGCTATCTAATAATAACTTTCT---GAGTCAACTCATCTATGTGGCAAAATAGTGAGAA [1331]

Mole GAGCTACCTACGAGCAGCATAAC--AGAGCGAACTCGTCTATGTGGCAAAATAGTGAGAA [1335]

Sloth GAGCTACCCGCGGACAGCACAAA---GAGCCAATTCATCTATGTTGCAAAATAGTGAAAA [1345]

Pangolin GAGCTACCTTTGAGCAGTTTAAA---GAACCAACTCATCTATGTGGCAAAATAGTGAGAA [1326]

Rat GAGCTACCTAAAAACAATTTCAT---GAATCAACCCGTCTATGTAGCAAAATAGTGGGAA [1331]

Capybara GAGCTACTTCCAAACAGCTAACA---GAGCAAACTCGTCTATGTAGCAAAATAGTGAGAA [1323]

Rabbit GAGCTATTTATGAGCAGTTGAAA---GAACGAACCCGTCCATGTGGCAAAATGGTGGGAA [1330]

Round\_Eared\_Bat GAGCTATTTATGAGCAGCCTTACA--GAGCAAATTCATCTATGTAGCAAAATAGTGAAAA [1352]

Flying\_Fox GAGCTACCTAAGAGCAGCAAAA----GAGCCAACTCGTCTATGTAGCAAAATAGTGAGAA [1337]

Aardvark GAGCTACTTAAAGTCAATCTCCCCAAGGATCAACTCATCTATGTAGCAAAATAGTGAGAA [1334]

Elephant\_Shrew GAGCTACTCATGAACAATTGTC---AGAATGCACTCTTCTATGTGGCAAAATAGTGAGAT [1325]

Hyrax GAGCTACCTACGAGCAGTTTTC---AGAACCAACCCGTCTATGTAGCAAAATAGTGGGAA [1327]

Dugong GAGCTACCTGCGAGCAGTCCAA---AGAACGAACTCATCTATGTGGCAAAATAGTGAGAA [1331]

Elephant GAGCTATCTGATAGTAATCCCC---AGGATCAATTCATCTATGTGGCAAAATAGTGAAGA [1332]

Pig GAGCTACCCATGAGCAGTTTAAAA--GAACCAACTCATCTATGTGGCAAAATAGTGAGAA [1337]

Cow GAGCTACTCACAAACAGTTTACCAA-GAACTAACTCATCTATGTGGCAAAATAGTGAGAA [1336]

Hippo GAGCTACTTATGAACAGTT-TACC-AGAACAAACTCATCTATGTGGCAAAATAGTGAAAA [1339]

Whale GAGCTACTTATGAGCAGCA-CCTA--GAACGAACTCATCTATGTGGCAAAATAGTGAGAA [1353]

Horse GAGCTACCTATGAACAGTTACAAAT-GAACCAACTCATCTATGTCGCAAAATAGTGAGAA [1350]

Rhino GAGCTACCTACGAACAGTCCCAAAACGAACGAACTCATCTATGTCGCAAAATAGTGAGAA [1348]

Cat GAGCTACCCATGAACAATCTATTACAGGATGAACTCGTCTATGTTGCAAAATAGTGAGAA [1337]

Dog GAGCTACCCATAAACAATCTAAAA--GGATCAACTCATCTATGTAGCAAAATAGTGAGAA [1328]

Human GAGCTACCTAAGAACAGCTAAAA---GAGCACACCCGTCTATGTAGCAAAATAGTGGGAA [1325]

Galago GAGCTACCTGCGGGCAGT-AAAC---GAACAAACTCATCTATGTGGCAAAATAGTGAGAA [1350]

Flying\_Lemur GAGCTACTCACAGGCAGTCACAA---GGACAAACTCACCTATGTAGCAAAATAGTGAGAA [1341]

Tree\_Shrew GAGCTACTTACGAACAGCTAATA---GAGCAAACTCATCTATGTTGCAAAATAGTGAAGT [1316]

Madagascar\_Hedgehog GAGCTACCCTAGAGCAATCTTGTT--GGATCAACTCATCTATGTGGCAAAATAGTGAGAA [1330]

Golden\_Mole GAGCTACTTAAAGGCAGTCTTAT---GGACCAACTCATCTATGTAGCAAAATAGTGAGAA [1324]

[ 1450 1460 1470 1480 1490 1500]

[ . . . . . .]

Opossum GATTTTATAGTAGAAGTGAAAAACC-TATCGAACTTAATGATAGCTGGTTATCCAAAA-- [1386]

Kangaroo GATTTTATAGTAGAGGTGAAAAGCC-TACCGAACTTGATGATAGCTGGTTGTCCAAAA-T [1381]

Hedgehog AATTACTAGATAGAGGTGAAACGCC-TATCGAGCCTGGTGATAGCTGGTTGTCCA-AAT- [1388]

Mole GACTTATAGGTAGTGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCAGAAA- [1393]

Sloth GATCCTCAGGTAGAGGTGAAAAGCCTAACCGAGCCTGGCGATAGCTGGTTGTCCAGGAA- [1404]

Pangolin GACTTGAAGGTAGAGGTAAAAAGCC-TAACGAGCCTAGTGATAGCTGGTTGTCCAAAAA- [1384]

Rat GATTTTTAGGTAGAGGTGAAAAGCC-TATCGAGCTTGGTGATAGCTGGTTGCCCAAAAA- [1389]

Capybara GATTTCGAAGTAGAGGTGAAAAGCC-AACCGAGTTTGGTGATAACTGGTTATCCAAATA- [1381]

Rabbit GACTTGTAAATAGAGGTGAAAAGCC-AACCGAGCCTGGTGATAGCTGGTTGTCCAGAAT- [1388]

Round\_Eared\_Bat GACTTCTAAATAGAGGTGACAAGCC-TACCGAGCCTGGTGATAGCTGGTTGTCCAG-AA- [1409]

Flying\_Fox GACTTTTAGGTAGTGGTGAAAAGCC-TACCGAGCCTGGTGATAGCTGGTTGTCCAG-AA- [1394]

Aardvark GAACATTAAGTAGAGGTGAAAAGCC-AACCGAGCCTGGTGATAGCTGGTTATCCAAAA-- [1391]

Elephant\_Shrew GATTTGTGAGTAGAGGTGAAAAGCC-AACCGAGCCTGGAGATAGCTGGTTGTCCAAAAA- [1383]

Hyrax GACTTGTAGGTAGGGGTGAAAAGCC-AACCGAGCCCGGTGATAGCTGGTTATCCAGAA-- [1384]

Dugong GACTTGCAGGTAGAGGTGAAAAGCC-AATCGAGCCCGATGATAGCTGGTTGTCCAGAA-- [1388]

Elephant AACTTACAGATAGAGGTGAAATACC-AATCGAGCCTGATGATAGCTGGTTGTCCAGAAA- [1390]

Pig GACTTGTAGGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCGAGAA- [1395]

Cow GATTTGTAAGTAGAGGTGACATGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCAGAAA- [1394]

Hippo GATTTATAAGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCAGAAA- [1397]

Whale GACTTATAAGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCCTGAA- [1411]

Horse GATTCGTAGGTAGAGGTGAAAAGCC-CAACGAGCCTGGTGATAGCTGGTTGTCCAGAAA- [1408]

Rhino GATTTATAGGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGTCCA-AAA- [1405]

Cat GATTTGTGGGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTGCCCA-GAA- [1394]

Dog GATTTGTGGGTAGAGGTGAAAAGCC-TAACGAGCCTGGTGATAGCTGGTTACCCACAGA- [1386]

Human GATTTATAGGTAGAGGCGACAAACC-TACCGAGCCTGGTGATAGCTGGTTGTCCAA-GA- [1382]

Galago GACCCTCAGGTAGAGGTGAAAAGCC-TATCGAGCCTGGTGATAGCTGGTTGTCCAG-AG- [1407]

Flying\_Lemur GACCTATGAGTAGAGGTGAAACGCC-AACCGAGCCTGGTGATAGCTGGAAGTCCAA-G-- [1397]

Tree\_Shrew GATTTGTAAGTAGAGGTGATAAGCC-AACCGAGCCTGGTGATAGCTGGTTGTCCAG-TG- [1373]

Madagascar\_Hedgehog GACTTTAAGGTAGAGGTGAAAAGCC-AACCGAGCCTGGTGATAGCTGGTTGCCCAAGAA- [1388]

Golden\_Mole GATCTTTAAGTAGAGGTGAAAAGCC-AACCGAGCCTGGTGATAGCTGGTTGCCCAGGAA- [1382]

[ 1510 1520 1530 1540 1550 1560]

[ . . . . . .]

Opossum AAGAATTTAAGTTCAACTTTAAGTCCTATTACAA-TGCCTATT-CAAAGCACAC-----A [1439]

Kangaroo ATGAATTTCAGTTCAACTTTAAATT-TAATTAAA------TTACCAA--CAAAC-TTAAC [1431]

Hedgehog AAGAATTTTAGTTCAACTTTAAATT-TACCTATATAA----TATAT----AATAA--ATT [1437]

Mole A-GAATTTTAGTTCAGCTTTAATTTATACAGACAAG------CCCTC--AAAACTCTAAT [1444]

Sloth CTGAACCTAAGTTCAACTTAAAA-TTTGCCCAAAGAA----CATAACATCAAATCTCAAC [1459]

Pangolin ATGAATCTAAGTTCAACTTGAAATA-TACCTAAAAGC----ACAAT---AACTAA--AAT [1434]

Rat A-GAATTTCAGTTCAAACTTTAAGC-TTCCATCAGAA----CAAC----AAA-TCAAAAT [1438]

Capybara A-GAAT-TTAGTTCAGCTTTAAGTT-TTCCCAAAACA----CCAG----AAAGTCTAA-T [1429]

Rabbit A-GAATTTTAGTTCAACTTTAAATT-TTCCTAAAGGA----CATA----AAACCCTAA-T [1437]

Round\_Eared\_Bat AAGAACTTCAGTTCAACTTTAAGCC-TACCTAACAAA----CTTCC---AATTCA--ACT [1459]

Flying\_Fox TAGAATTTTAGTTCGACTTTAAGTCATGCCTAAAAAA----ACCAC---AATTCA--AAT [1445]

Aardvark TAGAATCTAAGTTCAACCTAAAAT-TTACTATAAGAA----CTTTAACTAATCCCTCCAC [1446]

Elephant\_Shrew AAGAATCTAAGTTCATCCTAAAGCACTACCTATAAAA----ATC--ATTATTACA---AT [1434]

Hyrax TAGAATTTTAGTTCGACCTAAAAC-TTACCAAACAAA----CAC-AC--AATTCAC--CT [1434]

Dugong TAGAATTTTAGTTCTACCTAAAAT-TTACCGAAGAGA----AGC-ATTTAATCCCT--AT [1440]

Elephant TAGAATTTTAGTTCTACCTAAAAC-TTACCACAAAAA----CAA-AAT-AATTCCA--AT [1441]

Pig A-GAATTTTAGTTCAACCTTAAAAA-TACCCCAAAAA----CCC-----TAAATTCCAAT [1444]

Cow ATGAATCTAAGTTCAGCTTTAAAGA-TACCAAAAATT----CAAAT---AAACCCC-ACT [1445]

Hippo AAGAATCTAAGTTCAATTTCAAAAT-TACCAAAAGCC----CAAAT---CAAGCCT-AAT [1448]

Whale AAGAATCTCAGTTCAACATTAAATAATACTAAAAGCC----CATGC---CAAGCCTTAAC [1464]

Horse CAGAATTTCAGTTCAAATTTAAATT-TACCTAAAAAC----TACT----CAATTCT-AAT [1458]

Rhino CAGAATGTAAGTTCAAATCTAAATT-TACCTAAAAGC----CCTA----CAACTTC-AAT [1455]

Cat CAGAATCTTAGTTCAACTTTAAACT-TACCTCAAAAA----CCTA----AAATTCC-AAT [1444]

Dog CAGAATTTTAGTTCAACTTTAAATT-TACCTAAAAAA----AATA----AAATTTT-AAT [1436]

Human TAGAATCTTAGTTCAACTTTAAA-TTTGCCCACAGAA----CCCTCT---AAATCCCCTT [1434]

Galago TAGAATATTAGTTCAACTTTAAG-CTTATCTAAAGAA----ACAAA-----AATCCTAAT [1457]

Flying\_Lemur CAGAATTTCAGTTCAACTTTAAA-CTTACCTAAAGAA----CAACAA---TACTCCTAAC [1449]

Tree\_Shrew CAGAATTTTAGTTCAACTTTAAGTCATACCTAAAGAA----AAACC-----AATCCCAAT [1424]

Madagascar\_Hedgehog A-GAATTTAAGTTCGACCTAAAAA-TTACTACCAATA----ACT--ATAAATTTA---AT [1437]

Golden\_Mole AAGAATTTAAGTTCTACCTAAGAT-TTACCAAAAAAG----ATCCAATAACATCAT--AT [1435]

[ 1570 1580 1590 1600 1610 1620]

[ . . . . . .]

Opossum ATAAGCTTAAAAGTTAGTCAAAGAAGGGACAACTTCTTTGACC-AAGTATACAAACTACA [1498]

Kangaroo TTAAATTTAAAAGCTAATCAAAAGGGGGACAACTCTTTTGATC-ATGTAAACAAACTTTA [1490]

Hedgehog GTAAATTTAAAAGATAATTCTAAGAGGGACAGCTCTTAGAATAA-GGGGTACAGCCCTAA [1496]

Mole GTAAAATTAAACGTTAGTCTAAAGAGGTACAGCCCTTTAGACGC-AGGATACAACCTTAA [1503]

Sloth ACAAATTTTAAATATAATCAACAGAGGTACAGCTCTGCTGA--TAAGGGACAAACCCCAC [1517]

Pangolin GTAAATTTCAAGTATAGTCTAAAAAGGTACAGCTTTTTAGA-AG-TAGTTAAAACCTTTA [1492]

Rat GTAAACTTAAAATATAGCCAAAAGAGGGACAGCTCTTTAGGAAA-CGGAAAAAACCTTAA [1497]

Capybara GAAAACTTAAAACTTAATTTAAAGAGGGACAGCTCTTTAAAACA-AGGGAACAACCTTCA [1488]

Rabbit GAAAATTTAAATGTTACTCTAAAGAGGGACAGCTCTTTAGATAT-AGGATACAGCCTTTT [1496]

Round\_Eared\_Bat GTAGACTTAAAATATAGTCTGAAAGGGAACAGCCCTTCAGACAC-AGACTACAACCTCAC [1518]

Flying\_Fox GCAGACTTAAAATGTAATCTAAGAGGGTACAGCCTCTTAGAAGC-AGGATACAACCTTGA [1504]

Aardvark GTAAGTTTTAGATATAATCAAAAGAGGTACAGCTCTTTTGACAC-AGGATTCAACCTTAA [1505]

Elephant\_Shrew GTAAGCTTTAGAGAAATTCAATAGGGGGACAGCTCTATTGA-AA-AGGATACAACCTGTA [1492]

Hyrax GTAAGTTTTAGATATACTCAAAAGAGGTACAGCTCTTTTGATGC-AGGATACAACCTTAA [1493]

Dugong GTAAATTTTAGAGGTATTCAAAAGAGGTACAGCTCTTTTGACAA-AGGATACAACCTTAA [1499]

Elephant GTAAGTTTTAGAGATATTCAAAAGGGGTACAGCTCTTTTGACCA-AGGACACAACCTTGA [1500]

Pig GTATTTTTAAGAGATAGTCTAAAAAGGTACAGCTTTTTAGA-AA-CGGATACAACCTTGA [1502]

Cow GTAGCTTTAAAAGTTAGTCTAAAAAGGTACAGCCTTTTAGA-AA-CGGATACAACCTTGA [1503]

Hippo GTAATTTTAAAATTTAGTCTAAAAAGGTACAGCTTTTTAGA-CAAAGGATACAACCTTGA [1507]

Whale GTATATTTAACTGTTAATCTAAAAAGGTACAGCTTTTTAGA-AA-TGGGTACAACCTTGA [1522]

Horse GTAAATTTAAATTATAGTCTAAAAAGGTACAGCTTTTTAGATAC-AGGTTACAACCTTCA [1517]

Rhino GTAAATTTAAATTATAGTCTAAAAAGGTACAGCTCTTTAGACAC-AGGATACAACCTTCA [1514]

Cat GTAAGTTTAAAATATAGTCTAAAAAGGTACAGCTTTTTAGACCT-AGGATACAGCCTTTA [1503]

Dog GTAAATTTAAAATATAGTCTAAGAAGGTACAGCTTCTTAGAATC-AGGATACAACCTTTA [1495]

Human GTAAATTTAACTGTTAGTCCAAAGAGGAACAGCTCTTTGGACACTAGGAAAAAACCTTGT [1494]

Galago ATAAGCTTAAACGTTAACCCAACGAGGTACAGCTCGTTGGATAG-AGGATACAACCTTGC [1516]

Flying\_Lemur GTAAGTTTAAATGCTAGTCTAAAGGGGTACAGCTCTTTAGACAC-GGGACTCAACCCCCA [1508]

Tree\_Shrew GTAGACTTAAATGTTAATCTAAGGGGGTACAGCTCCTTAGAACT-AGG-TAAAACCTTTT [1482]

Madagascar\_Hedgehog GTAATTTTTAGTTATAATTAAAAGAGGTACAGCTCTTTTAATTG-AGGAAACAACCTTAT [1496]

Golden\_Mole GTAAATCTTAGTTTTAATCAAAAGAGGTACAGCTCTTTTGATAA-AGGATTCAACCTTCA [1494]

[ 1630 1640 1650 1660 1670 1680]

[ . . . . . .]

Opossum TTAGAGGGTAATAAT--TAATA----ATCCACATCGTTGGCTTAAAAGCA-GCCATCAAC [1551]

Kangaroo TTAGAGGATAATGAATACTAAGA------ACCATTGTAGGCCCAAAAGCA-GCCACCAAT [1543]

Hedgehog TCAGAGAGTAACTATATT-CA-----ATAATCATAGTAGGCCTAAAAGCA-GCCACCAAT [1549]

Mole CTGGAGAGTAAGTTCATAAT------CTAACCATAGTTGGCCTAAAAGCA-GCCATCAAT [1556]

Sloth CTAGAGAGTAA---CCAC-CCCCCCCCCCCCCATAGTAGACCTAAAAGCA-GCCACCAAC [1572]

Pangolin TTAGAGAGTAAA--CAATTAA-----ATACCCATAGTTGGCCTTAAAGCA-GCCATCAAT [1544]

Rat ATAGTGAATAAACAACTACA-ATCACTTAACCATTGTAGGCTTAAAAGCAAGCCATCAAT [1556]

Capybara ACAGTGGGTAAGTAAATCAA------AATACCATAGTTGGCCTAAAAGCA-GCCATCAAT [1541]

Rabbit ATAAAGAGTAAGTTATTTTT------CAATCCATAGTTGGCTTAAAAGCA-GCCATCAAT [1549]

Round\_Eared\_Bat CTAGAGAGTAAGTACAAATAC-----TAAACCATAGTTGGCCTAAAAGCA-GCCACCAAT [1572]

Flying\_Fox CTAGAGAGTAAGCACCAC-AA-----AAATTCATAGTTGGCCTAAAAGCA-GCCACCAAT [1557]

Aardvark TTAGAGAGTAAG-AACTTATC-----CATACCATAGTAGGCCTAAAAGCA-GCCATCAAT [1558]

Elephant\_Shrew AAGGAGAGTAAGAAATATAA------GTTCACATAGTTGGCCTAAAAGCA-GCCACCAAT [1545]

Hyrax TTAGAGAGTAATCCAACTACT-----AATTCCA--GTTGGCCTAAAAGCA-GCCACCAAT [1545]

Dugong CTAGAGAGTAAGCATTTTAT-------ATCCCATAGTAGGCCTAGAAGCA-GCCACCAAT [1551]

Elephant TTAGCGAGTAAATTCACCATT-----AATTTCATAGTTGGCTTAGAAGCA-GCCATCAAT [1554]

Pig CTAGAGAGTAAA-TCTTA-AT-----ACTACCATAGTAGGCCTAAAAGCA-GCCATCAAT [1554]

Cow CTAGAGAGTAAAA-TTTA-AC-----ACTACCATAGTAGGCCTAAAAGCA-GCCATCAAT [1555]

Hippo CTAGTGAGTAAATTCAAA-CA------ACACCATAGTTGGCCTAAAAGCA-GCCACCAAT [1559]

Whale CTAGAGAGTAAAATCAAA-CA-----TAAA-CATAGTTGGCCTAAAAGCA-GCCATCAAT [1574]

Horse TTAGAGAGTAAGAACAAG-AT-----AAACCCATAGTTGGCTTAAAAGCA-GCCATCAAT [1570]

Rhino TTAGAGAGTAAGATCTAA-GC-----CA-CACATAGTTGGCCTAAAAGCA-GCCACCAAT [1566]

Cat TTAGAGAGTAAGCATAAA-TA-----TAAACCATAGTTGGCCTAAAAGCA-GCCATCAAT [1556]

Dog TTAGAGAGTATATACTAA-T------ATCACCATAGTTGGCTTAAAAGCA-GCCACCAAT [1547]

Human AGAGAGAGTAA-----A--AAATTTAACACCCATAGTAGGCCTAAAAGCA-GCCACCAAT [1546]

Galago ATAGAGAGTAA-----TC-AAATTATCTGACCATAGTTGGCCTAAAAGCA-GCCACCAAT [1569]

Flying\_Lemur GTAGAGAGTAA-----A--CCACAAATCACCCATAGTTGGCCCAAAAGCA-GCCACC?AT [1560]

Tree\_Shrew TTAGAGAGTAA-----G--AAACTATACACCCATAGTTGGCTTAAAAGCA-GCCACCAAT [1534]

Madagascar\_Hedgehog TTAGAGAGTAAA-CACCAAAT-----AATTTCATAGTTGGCCTAAAAGCA-GCCACCAAT [1549]

Golden\_Mole TTAGAGAGTAAC-TAC-AACC-----CCTACCATAGTTGGCCTAAAAGCA-GCCATCAAT [1546]

[ 1690 1700 1710 1720 1730 1740]

[ . . . . . .]

Opossum TAAGAAAGCGTTAAAGCTCAAACTCA-CATTCCAATT--TAATACCATAAAAAA----AC [1604]

Kangaroo TAAGAAAGCGTTAAAGCTCAAATGTATTAACAGACCT--TAATCCCAATAATAT---TAT [1598]

Hedgehog TAAGAAAGCGTTAAAGCTCAACAAATCTGACTA-AT--TTAATACCAAAATTTAT----T [1602]

Mole TAAGAAAGCGTTCAAGCTCAACCATACATTACA-ACA-TTAATACCTAAAACTAA----- [1609]

Sloth AAAGAAAGCGTTCAAGCTCAACTAGCAATAACT-CCAAA-AATACCAAAAACCAC----A [1626]

Pangolin TAAGAAAGCGTTCAAGCTCAACAGTAAAACATT-AA---CAATCCCAAAAAACAA----G [1596]

Rat AAAGAAAGCGTCAAGCCACATCATCTTACACAC-AC--ACTAATTCCACAAACCT---CA [1610]

Capybara TAAGAAAGCGTTCAAGCTCAACAATCCGCCAAA-CCCTAGAATCTCTTCAAAACT---AA [1597]

Rabbit TAAGAAAGCGTTAAAGCTCAACAACT-AAAAAC-CAACTTAATAAGAATATTTTA---AA [1604]

Round\_Eared\_Bat AAAGAAAGCGTTCAAGCTCAACAACCC-TAACT-ATC-TCAATTCCAAAAAA--A---CT [1624]

Flying\_Fox TGAGAAAGCGTTCAAGCTCAACAACCAACCCAG-ATT-CTAATTCAAAAGATTAT---AC [1612]

Aardvark TAAGAAAGCGTTATAGCTCAACATTAAATTA----CAACAAATCCCATACAAAC---ATA [1611]

Elephant\_Shrew TAAGAAAGCGTTAAAGCTCAATTTACCTTAC--TACTATTAATCCCAATAATAT---TAA [1600]

Hyrax TAAGAAAGCGTTAAAGCTCAAAAATAAACAACAAATTACAAAAATACCAAAAAC--AACA [1603]

Dugong TAAGAAAGCGTTAAAGCTCAACG-TTATCAA--CCCTACTAATACCCTTAAA----ACCA [1604]

Elephant TAAGAAAGCGTTAAAGCTCAACAACCAACCA--AACTAAAAAGATTCCAAAATTA-ATTA [1611]

Pig TGAGAAAGCGTTAAAGCTCAACAAATTCACCAA-CA---TAATCCCAAAAACTAA---TA [1607]

Cow TAAGAAAGCGTTAAAGCTCAACAACAAAAATTA-AA--TAGATTCCAACAACAAA---TG [1609]

Hippo TAAGATAGCGTTCAAGCTCGACAATAAGCACAA-CCT---AATTCCCATATCAAG--C-A [1612]

Whale TAAGAAAGCGTTCAAGCTCGACAACAAAATAAT-GTT-TTAATTCCAACATTAAG--TAA [1630]

Horse TAAGAAAGCGTTCAAGCTCAACGACACATCTAT-CT---TAATCCCAACAATCAACCCAA [1626]

Rhino TAAGAAAGCGTTCAAGCTCAACAGCACAGCCAC-CT---TAATTTCAGCAACAACC---A [1619]

Cat TAAGAAAGCGTTCAAGCTCAACAATCAAAGCAT-CT---TAATGTCAAAAATAATG--CA [1610]

Dog TGAGAAAGCGTTCCAGCTCAACAAACAATATAA-CT---TAATCCCAACCATACT---AC [1600]

Human TAAGAAAGCGTTCAAGCTCAACACCCACTACCT-AAAA--AATCCCAAACA-TAT---AA [1599]

Galago TAAGAAAGCGTTAAAGCTCGACACTAATCCCAT-CCCCT-CATACCACCCTATAA---GA [1624]

Flying\_Lemur TAAGAAAGCGTTCAAGCTCAAATTAACCAACAA-AACTC-AATACCCACCATCCC---TA [1615]

Tree\_Shrew TAAGAAAGCGTTCAAGCTCAACAGTAAAACAAC-GTTCT-AATACCACCATTTTC---AA [1589]

Madagascar\_Hedgehog TAAGACAGCGTTAAAGCTCAACAATTTATTT----CTCTAGATTCCATTAATTC---A-A [1601]

Golden\_Mole TAAGAAAGCGTTCAAGCTCAACATAAAATCA----TCAATAATACCATAAATCC---TCA [1599]

[ 1750 1760 1770 1780 1790 1800]

[ . . . . . .]

Opossum TAAAACCCCTAAAATAC--TATTGGATGAT-TCTATGAT-ATTATAGAATACATAATGCT [1660]

Kangaroo CAAAATCCCTAACATAGACTATTGGACGAT-TCTATAAT-CTTATAGAAGACATAATGCT [1656]

Hedgehog CCTAACTCCTGATTTA-CAAATTGGACTAA-TCTATTACC-CAATAGAAGAAATACTGCT [1659]

Mole CCCAACTCCCAGACTT-T-AACTGGACTAA-TCTATTAAC-AAATAGAAGAAATAATGCT [1665]

Sloth CCCAACTCCTAAAACCC--CACTGGACCAA-TCTATAAT----ATAGAAGAGACAATGTT [1679]

Pangolin ACCAACTCCTAAATCA-A-TATTGGACTAA-TCTATCTAT-AGATAGAAGAAATACAGCT [1652]

Rat A-AAATTCCAAAATTA-CAAATTGGGCTAAATCTATGATCCTAGTGA-----ATACTGTT [1663]

Capybara ACAAACCCCTGACCA--ACAATTGGATTAA-TCTATAAAC-ACATAGAAGAAATAATGTT [1653]

Rabbit ACGAACTCTTATAAACCCTAACTGGACTAA-TCTATAAAT-CTATAGAAGAAATAATGCT [1662]

Round\_Eared\_Bat ACCAGCTCCTAGAATT-AAAACTGGACTAC-TCTATAACT-ATATAGAGAAAATACTGTT [1681]

Flying\_Fox GCGAACCCCTAGCCCG-ACCACTGGACCAC-TCTATCATA-AAATAGAGGAAATACTGTT [1669]

Aardvark ACCAACTCCTAAAA-AAT-TATTGGATTAC-TCTATAA-GCATATAGAAGAAATAATGTT [1667]

Elephant\_Shrew ACAACCTCCCTTACCTAA-TATTGGACTAT-TCTATTA-TAAAATAGAAGAAATAATGCT [1657]

Hyrax ACTAACTCCTAAAATAAG-TACTGGATCAA-TCTATTA-GTACATAGAAGAAATAATGTT [1660]

Dugong GCCAACTCCTAGACCTAA-TACTGGACTAT-TCTATTA-TTCAATAGAAGAAATAATGTT [1661]

Elephant ATGATCTCCTAAACATAA-TACTGGACTAA-TCTATA---TAAATAGAAGAAATAATGTT [1666]

Pig ACAAACTCCTAGCCCA-A-TACCGGACTAA-TCTATTGAA-ACATAGAAGCAATAATGTT [1663]

Cow ATTAACTCCTAGCCCC-AATACTGGACTAA-TCTATTATA-GAATAGAAGCAATAATGTT [1666]

Hippo AACAACTCCTAGCCTA-ACTACTGGACTAT-TCTATTCAA-ACATAGAAGCAATACTGTT [1669]

Whale ATCAACTCCTAGCCTG-ACTATTGGACTAA-TCTATACAA-ATATAGAAGCAATACTGTT [1687]

Horse ACTAACTCCTAATCTC-A-TACTGGACTAT-TCTATCAAC-ACATAGAAGCAATAATGTT [1682]

Rhino ATCAACTCCTAATTTA-A-TATTGGACTAA-TCTATCAAC-AAATAGAAGCAATAATGTT [1675]

Cat ACCAACTCCTAACCTA-A-AACTGGGCTAA-TCTATTTAA-TAATAGAAGCAATAATGCT [1666]

Dog ATCAACTCCTAATTATACCCCCTGGGTCAT-TCTATTTAA-GTATAGAAGCAATAATGCT [1658]

Human CTGAACTCCTCACACCC--AATTGGACCAA-TCTATCACC-CTATAGAAGAACTAATGTT [1655]

Galago GC-AACTCCTATAACCA--CACTGGACCAA-TCTATTTAC-CAATAGAAGAAATAATGTT [1679]

Flying\_Lemur CCAAACTCCTACCACCT--AACTGGACTAA-TCTATATCC-ATATAGAAGCAATACTGTT [1671]

Tree\_Shrew CC-AACTCCTAAAACCA--AACTGGACTAA-TCTACATCC-ATGTAGATGAAACACTGCT [1644]

Madagascar\_Hedgehog TTCTACTCCTAAATTTA--TATTGGGCAAA-TCTATTC-TTATATAGAAGCTAATCTGTT [1657]

Golden\_Mole ATCAACTCCTAACACAAC-TACTGGGCCAC-TCTATAT-TTAAATAGAAGAACTAATGTT [1656]

[ 1810 1820 1830 1840 1850 1860]

[ . . . . . .]

Opossum AAAATTAGTAATAAGAACCCCGTT--CTCCT-CGCACAAGCCTAAGTTAGAATAACGGAT [1717]

Kangaroo AAAATAAGTAACAAGAAA-TATTT--CTCCT-AGCACAAGCCTAAATTAG--CAACGGAA [1710]

Hedgehog AATATGAGTAACAGAA-TAA---TT-TCTCT-AGCATAATTTTATATCAGA---TCGAAT [1710]

Mole AGTATGAGTAACAAGA-AATAG-TT-CTCCC-GGCACAGGTTTATATCAGA---TCGGAT [1718]

Sloth AGTATAAGTAATAAGA-A-TAACTT-CTCCA-CGCACTAGCTTATATCAGA---ACGGAC [1732]

Pangolin AATATGAGTAACAAGA-TATTAAT--CTCCT-TGCATAAGCTTATATCAGA---ACGGAT [1705]

Rat AATATGTG-AACAAGA-A--CCAATCCACCA-AGCACAAGTGCTAAGACAA---CCGGAT [1715]

Capybara AATATTAGTAACAAGA-AA-TATTT-CTCCC-TGCACAAGCTTAAATCAA----CCATTC [1705]

Rabbit AATATAAGTAACAAGA-ATACTATT-CTCCT-TGCACAAGCTTATATCAGA---TCGGAT [1716]

Round\_Eared\_Bat AATATGAGTAACAAGA-ATCTAATT-CTCCA-CGCATAAGTGTATATCAAA---ACGAAT [1735]

Flying\_Fox AATATGAGTAACAAGA-ACTAGTTT-CTCCC-TGCACAAGCTTATATCAGA---ACGGAT [1723]

Aardvark AATATAAGTAACAAGA-AT--ATATTCTCCA-TGCACAAACTTATATCAGA---TCGGAT [1720]

Elephant\_Shrew AGTATGAGTAACAAGA--ATTATTT-CTCCG-CGCGCAAGCTTATATCAGA---ACGGAT [1710]

Hyrax AATATAAGTAACAAGA-AAATTTTT-CTCCCACGCATGAACTTATATCAGA---A--AAT [1713]

Dugong AATATAAGTAACAAGA-AC-TATTT-CTTCC-CGCATAAGCTTATATCAGA---ACGGAT [1714]

Elephant AGTATAAGTAATAAGA-AG-TATTT-CTCCC-TGCATAAGCTTATATCAGG---TCGGAT [1719]

Pig AATATGAGTAACAAGA-AGCCT-TT-CTCCT-CGCACACGCTTACATCAGT--AACTAAT [1717]

Cow AATATGAGTAACAAGA-AAAATTTT-CTCCT-TGCATAAGTCTAAGTCAGT--GCCTGAT [1721]

Hippo AATATGAGTAACAAGA-AAC-AATT-CTCCC-AGCACAAGCCTACGTCAGC--AACTGAT [1723]

Whale AATATGAGTAACAAGA-AAT-TTTT-CTCCT-AGCACAAGCTTACACCAGT--AACTGAT [1741]

Horse AATATGAGTAACAAGA-ATTATTT--CTCCT-TGCATAAGCTTATATCAG---AACGAAT [1735]

Rhino AATATGAGTAACAAGA-ACCATTT--CTCCT-TGCATAAGCCTATATCAG---AACGAAT [1728]

Cat AATATGAGTAACAAGA-AATATTT--CTCCC-TGCATAAGCTTATATCAG---AACGGAT [1719]

Dog AGTATGAGTAACAAGA-ACCATTTT-CTCCC-CGCATAAGCTTATATCAGG--AACGGAT [1713]

Human AGTATAAGTAACATGA-A-AACATT-CTCCTCCGCATAAGCCTGCGTCAGA---TTAAAA [1709]

Galago AATATGAGTAACAAGA-ATACCATT-CTCCT-TGCACAGACCTATATCAGA---CCGGAT [1733]

Flying\_Lemur AGTATGAGTAACAAGA-ACCCCGTT-CTCCC-CGCATAAACCTATATCAGA---CCGAAT [1725]

Tree\_Shrew AGTATGAGTAACAAGA-A-ATAATT-CTCCC-TGCACAAGCCTATATCAGA---TCGGAT [1697]

Madagascar\_Hedgehog AACATAAGTAACAAGAGAATAAATCTCTCCC-CGCACAAGTATATATCAGA---ACGAAT [1713]

Golden\_Mole AATATAAGTAACAAGA--ATTATATTCTCCA-CGCACACCTTTATTTCAGA---CCTAAT [1710]

[ 1870 1880 1890 1900 1910 1920]

[ . . . . . .]

Opossum -ATCCCACTAATAGTTAACAAA-AACATAATAACATTCATC-A-ACCAGCCTCTTATACA [1773]

Kangaroo -TACCCACTAACAATTAACAA-ATCAATAATCCTAACCAAA-TAACTAGTAAAATTCTTA [1767]

Hedgehog ATCT-CGCTGATAGTTAACAA-TTCAATGA-ACAAAATCATTAATTAAAT---AATCATT [1764]

Mole GCCC--ACTGATAGTTAACAA-AATAATAA-TAATAATTAAAAAATAGAA--CAATTATT [1772]

Sloth CTAC-CACTGATAGTTAACAG-CCAGACTT-CCACACTCCCCCAAATATCCC-CAAGTCG [1788]

Pangolin AATC-CACTGATAGTTAACAA-CATGACAA-AATCAAACTAAGTATAGAA---ACTTGTC [1759]

Rat AAC--CATTGTTAATTA-TTG-AATCATAGGCA----TAACCCAACAATAGAATTACCTA [1767]

Capybara A-----ATTGATTATTAACAA-CCTAATAAGACAAGATCCATCATTAGT--ACTCTTATT [1757]

Rabbit GCC--CACTGATAGTTAACAG-CCCCAATAGAAATAATCCACAAATTAA--TAATCTATT [1771]

Round\_Eared\_Bat A-CC-CATTGATAGTTAACGT---ACACAA-AGCTAAACCAAACAACAAG-CCCTTTATC [1788]

Flying\_Fox GACC-CACTGATAGTTAACAA-CAAAACAA-ATCCAACACCACAAGTAAA-AGATTTATT [1779]

Aardvark ATA-CCACTGGTAGTTAACAA-CTATATAA--ATAAAAATACTACTAAACCAC--TTATA [1774]

Elephant\_Shrew GC--CCACTGATAGTTAACGA-CCTAACAG-TCATAATCCACACATAAACCCCC-TATTT [1765]

Hyrax GC--CAACTGACAGTTAACA--CATAATAT-ACTACCACCACCAAAACAACAC--TTATT [1766]

Dugong GC--CCACTGATAGTTAACAA-TTCAATAA-GCCAAATCCACTAACCAGAACC--TTATT [1768]

Elephant GC--CCGCTGATAGTTAACAA-CCGAATAA--TTAGATACAAAAATAGAACCT--TTATT [1772]

Pig AATA-TACTGATAATTAACAA-CCAA-TAA-ACCAAAAC-AACACTAAAA--CGTTTATT [1770]

Cow AATA-CTCTGACCACTAACAG-TCAA-TAA-AAATAATCCAACAATAAAC--AATTTATT [1775]

Hippo AATA-TACTGACAGTTAACAA-CAAG-TAA-ATATAACCTAACACTAAAA--CATTTACC [1777]

Whale AATA-TACTGATAATTAACAG-CAAA-TAA-ATAAAACCCAACACTAAAT--TATTTATT [1795]

Horse ACT--CACTGATAGTTAACAA-CAAGATAG-GGATAATCCAAAAACTAAT--CATCTATT [1789]

Rhino GAC--CACTGATAGTTAACAA-CAAAATAA-ACACAACCTAACAATAAAC--TACCTATT [1782]

Cat AAC--CACTGATAGTTAACAA-CAAGATAT-ATATAACCTAACCATAAAC--AAAATATC [1773]

Dog AGAC-CACTGATAGTTAACAA-TCTGATAA-TATCAACCCAAAAATGATGAAATACTTAT [1770]

Human CACTGAACTGACAATTAACAG-CCCAATAT-CTACAATCAACCAACAAGTCA---TTATT [1764]

Galago GCCC--ACTGATAGTTAAACA-ACAAGTAT-CACAAACCACCCACTTAAATG-A-T-ACT [1786]

Flying\_Lemur GCCC--ACTGATAATTAACAG-CATAATAA-AAACTGCCCAACCAGAATCCA-C-TTATT [1779]

Tree\_Shrew GCCC--ACTGATAGTTAACAG-CCCAATAA-ATTCAGCCTCAACCCAAGATG-T-TTATT [1751]

Madagascar\_Hedgehog AC--TCGCTGATAATTAACAA-CCTAGTA---ATTATACAAACTCTAGACTATTATATTT [1767]

Golden\_Mole AA--TAACTGACAATTAACAA-TAAAATAG-AATCACTCACCTAATAAACTTTATCTATT [1766]

[ 1930 1940 1950 1960 1970 1980]

[ . . . . . .]

Opossum A---AATTTTGTTAATCCAACACAGGTGTGCAT-----TAAAGGAAAGATATAAAAGAAC [1825]

Kangaroo C--AACTATTGTTAACCCGACACAGGAGTGCTAAC------AGGAAAGATTAAAAGGAAT [1819]

Hedgehog T-ATAAAATTGTTAGACCAACACAGGTGTGCAT-----TTAAGGAAAGATTAAATAGGCC [1818]

Mole A-AGTAAACTGTTAACCCAACACAGGAGTGCCAAA----CAGGGAAAGATTAAAAGAAGT [1827]

Sloth T-AACTCACTGTTAACCCAACACAGGAATGCGTACT------GGAAAGATTAAAAGAAGC [1841]

Pangolin T-AATAAATTGTTAATCCAACACAGGCATGCAC--AC-CAAAGGAAAGATTTAAACAAAT [1815]

Rat TCCCTAACTCGTTAGCCCAACACAGGCGTGC-----T-TTAAGGAAAGTTTAAAAAAGT- [1820]

Capybara AGCTTTCCTTGTTAACCCAACACAGGAGTGC-----A-TTCAGGAAAGACAAAAAAAAGC [1811]

Rabbit AACTTTCACTGTTAACCCAACACAGGAGTGCT----A-TATAGGAAAGATTAAAAGAAGA [1826]

Round\_Eared\_Bat C-ACCCAAC-GTTAACCCAACACAGGAATGCCTACTT-TAAAGGAAAGATCAAAAAGAGT [1845]

Flying\_Fox G-AACCAACTGTTAACCCAACACAGGAGTGCAC---T-TAAGGGAAAGATTAAAAGAAGT [1834]

Aardvark A-ATATTACTGTTAACCCAACACAGGAGTGCATC-----TCAGGAAAGATTAAAAAAAGC [1828]

Elephant\_Shrew A-GCCTAATCGTTAATCCGACACAGGAGCGCGAC------ACGGAAAGATTAAAAGAAAG [1818]

Hyrax A-GACAAACTGTTAACCCAACCCAGGCATGCTTCTA--TAAGGGAAAGATTAAAAGAGAT [1823]

Dugong A-TATCTATTGTTAACCCGACACAGGCATGCTTG-----AAGGGAAAGATTAAAAGAAGA [1822]

Elephant A-TACCAATTGTTAACCCAACACAGGCATGCTT------AAGGGAAAGATTAAAAGAAGG [1825]

Pig A-ATTACATTGTTAACCCAACACAGGAGTGCA------CCAAGGAAAGATTAAAAGAAGT [1823]

Cow G-ATTATACTGTTAACCCAACACAGGAGTGCAT--C--TAA-GGAAAGATTAAAAGAAGT [1829]

Hippo C-CATACACTGTTAACCCAACACAGGCGTGCAC--C---CAAGGAAAGATTAAAAAAAGC [1831]

Whale A-AA-ATACTGTTAACCCAACACAGGCGTGCAT--T---AA-GGAAAGATTAAAAAAAGT [1847]

Horse T-AAACCATTGTTAACCCAACACAGGCATGCAT--CT-ATAAGGAAAGATTAAAAGAAGT [1845]

Rhino A-AACCAACTGTTAACCCAACACAGGCATGCAC--TT-TAAAGGAAAGATTAAAAAAAGT [1838]

Cat A-AATTAATTGTTAACCCAACACAGGTATGCAA--A--TTAGGGAAAGATTAAAAGAAGT [1828]

Dog CCACCCCATTGTTAACCCAACACAGGTATGCAT-----TCAAGGAAAGATTAAAAGGAGT [1825]

Human A-CCCTCACTGTCAACCCAACACAGGCATGCTCAT-----AAGGAAAGGTTAAAAAAAGT [1818]

Galago A-AACAACCCGTTAACCCAACACAGGTGTGCACTACTATAAAGGAAAGATTAAAATAAGT [1845]

Flying\_Lemur C-ACCCAACTGTTAACCCAACACAGGCATGCATA------AAGGAAAGATTAAAAGAAGC [1832]

Tree\_Shrew A-AACAAACTGTTGACCCAACACCGGAGTGCACAAACCCAAGGGAAAGATTTAAAAGAGT [1810]

Madagascar\_Hedgehog A-CGC---TTGTTAACCCGACACAGGAGTGCACTC---TAAAGGAAAGATAAAAAGAAGT [1820]

Golden\_Mole A-AATAAATTGTTAACCCGACACAGGAGTGCACTT---CAAAGGAAAGATTTAAAGAGAT [1822]

[ 1990 2000 2010 2020 2030 2040]

[ . . . . . .]

Opossum AAAAGGAACTCGGCAAACAT-GAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1884]

Kangaroo AAAAGGAACTCGGCAAATAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1878]

Hedgehog AGAAGGAACTCGGCAAACAC-AAGCTCCGCCTGTTTACCAAAAACATCACCTCTAGCATC [1877]

Mole AAAAGGAACTCGGCAAACAC-AAGCCCCGCCTGTTTACCAAAAACATCACCTCTAGCATG [1886]

Sloth AGAAGGAACTCGGCAAACAT-AAATCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1900]

Pangolin GAAAGGAACTCAGCAAACAC-AAGTCCCGCCTGTTTACCAAAAACATCACCTCTAGCATG [1874]

Rat -AAAGGAACTCGGCAAACAC-GAACCCCGCCTGTTTACCAAAAACATCTCCTCTAGCATA [1878]

Capybara AAAAGGAACTCGGCAAACAC-AAATCCCGCCTGTTTACCAAAAACATCGCCTCTAGCATA [1870]

Rabbit AAAAGGAACTCGGCAAACCC-TAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1885]

Round\_Eared\_Bat AAAAGGAACTCGGCAAACAC-GAATCCCGCCTGTTTACCAAAAACATCACCTCTAGCATC [1904]

Flying\_Fox AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1893]

Aardvark AAAAGGAACTCGGCAAACTT-GAATCCCGCCTGTTTACCAAAAACATCACCTCTAGCATG [1887]

Elephant\_Shrew AGAAGGAACTCGGCAAACAC-TAACTCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1877]

Hyrax AAAAGGAACTCAGCAAACAC-AAGCCCCGCCTGTTTACCAAAAACATCGCCTTAAGCATA [1882]

Dugong AAAAGGAACTCGGCAAACAC-AGACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1881]

Elephant AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCGAGCATT [1884]

Pig AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1882]

Cow AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCCAGCATT [1888]

Hippo AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATC [1890]

Whale AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1906]

Horse AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1904]

Rhino AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1897]

Cat AAAAGGAACTCGGCAAACAC-AAGCCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1887]

Dog AAAAGGAACTCGGCAAACAC-AAACCCCGCCTGTTTACCAAAAACATCACCTCCAGCATT [1884]

Human AAAAGGAACTCGGCAAATCT--TACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATC [1876]

Galago AAAAGGAACTCGGCAAA-ACCAAACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1904]

Flying\_Lemur AGAAGGAACTCGGCAAACAT--AAACCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1890]

Tree\_Shrew AAAAGGAACTCGGCAAACATAAAACCCCACCTGTTTACCAAAAACATCACCTCTAGCATA [1870]

Madagascar\_Hedgehog AAAAGGAACTCGGCAAACTA-AAATCCCGCCTGTTTACCAAAAACATCACCTCTAGCATT [1879]

Golden\_Mole AAAAGGAACTCGGCAAACAC-AAATCCCGCCTGTTTACCAAAAACATCACCTCTAGCATA [1881]

[ 2050 2060 2070 2080 2090 2100]

[ . . . . . .]

Opossum ACAAGTATTAGAGGCACTGCCTGCCCAGTGAA---TAAAC-TTT-TAACGGCCGCGGTAT [1939]

Kangaroo ACAAATATTAGAGGCAACGCCTGCCCAGTGAGT--A-A-CACTT-CAACGGCCGCGGTAT [1933]

Hedgehog TCAAGTATTAGAGGCACTGCCTGCCCAGTGAC--AT-A---GTT--AACGGCCGCG-TAT [1928]

Mole AAAAGTATTGGAGGCACTGCCTGCCCAGTGAC-GCA-A---GTT-AAACGGCCGCGGTAT [1940]

Sloth ACAACTATTAGAGGCACCGCCTGCCCAGTGACATAC-----GTT-CAACGGCCGCGGTAC [1954]

Pangolin ACTAGTATTAGAGGCACTGCCTGCCCGGTGAC--CA-T---GTT-AAACGGCCGCGGTAT [1927]

Rat ACAAGTATTAGTGGCATCGCCTGCCCAGTGACTAAA-----GTT-CCACGGCCGCGGTAT [1932]

Capybara ACTAGTATTAGAGGCACTGCCTGCCCAGTGACAACCCA---GTT-CAACGGCCGCGGTAT [1926]

Rabbit ACTAGTATTAGAGGCACTGCCTGCCCAGTGACGTAC-----GTT-CAACGGCCGCGGTAT [1939]

Round\_Eared\_Bat ACAAGTATTAGAGGCCCTGCCTGCCCAGTGACATAC-----GTT-TAACGGCCGCGGTAT [1958]

Flying\_Fox GCAACTATTAGAGGCACTGCCTGCCCAGTGACATCT-----GTT-AAACGGCCGCGGTAT [1947]

Aardvark ACTAGTATTAGAGGCACTGCCTGCCCAGTGAT--ACAC---GTT-AAACGGCCGCGGTAC [1941]

Elephant\_Shrew ACTAGTATTAGAGGCACTGCCTGCCCAGTGAC--ATTA---GTT-AAACGGCCGCGGTAC [1931]

Hyrax GCAAGTATTTAAGGTACTGCCTGCCCAGTGAC--ACAT---GTT-AAACGGCCGCGGTAC [1936]

Dugong TCAAGTATTAGAGGCACTGCCTGCCCAGTGAC--ATAC---GTT-AAACGGCCGCGGTAC [1935]

Elephant ACTAGTATTCGAGGCACTGCCTGCCCAGTGACC-AAGC---GTT-AAACGGCCGCGGTAC [1939]

Pig ACTAGTATTAGAGGCAATGCCTGCCCAGTGAC-ACC-A---GTT-TAACGGCCGCGGTAT [1936]

Cow CCCAGTATTGGAGGCATTGCCTGCCCAGTGAC-AACT----GTT-TAACGGCCGCGGTAT [1942]

Hippo ACTAGTATTAGAGGCACTGCCTGCCCAGTGACAACT-----GTT-AAACGGCCGCGGTAT [1944]

Whale ACCAGTATTAGAG-CACTGCCTGCCCGGTGACTAAT-C---GTT-AAACGGCCGCGGTAT [1960]

Horse TCCAGTATTAGAGGCACTGCCTGCCCAGTGACATCT-----GTTTAAACGGCCGCGGTAT [1959]

Rhino TCTAGTATTAGAGGCACTGCCTGCCCAGTGACATAT-----ATTTCAACGGCCGCGGTAT [1952]

Cat TCCAGTATGAGAGGCACTGCCTGCCCGGTGACGCTA-----GTT-AAACGGCCGCGGTAT [1941]

Dog TCTAGTATTGGAGGCACTGCTGCCCGGTGACACTT------GTT-TAACGGCCGCGGTAT [1937]

Human ACCAGTATTAGAGGCACCGCCTGCCCAGTGACACAT-----GTT-TAACGGCCGCGGTAC [1930]

Galago GCTAGTATTAGAGGCACTGCCTGCCCAGTGACCAAA-----GTT-CAACGGCCGCGGTAT [1958]

Flying\_Lemur ACAAGTATTAGAGGCACTGCCTGCCCAGTGACACA------GTT-CAACGGCCGCGGTAT [1943]

Tree\_Shrew ACAAGTATTAGAGGCACTGCCTGCCCAGTGACGTAA-----GTT-AAACGGCCGCGGTAT [1924]

Madagascar\_Hedgehog ACTAGTATTAGAGGCACTGCCTGCCCAGTGAC--CCAT---GTT-TAACGGCCGCGGTAC [1933]

Golden\_Mole ACCAGTATTAGAGGCACTGCCTGCCCGGTGAC--ATAC---GTT-TAACGGCCGCGGTAC [1935]

[ 2110 2120 2130 2140 2150 2160]

[ . . . . . .]

Opossum CCTGACCGTGCAAAGGTAGCATAATCACTTGTCTCCTAAATAGGGACTTGTATGAATGGC [1999]

Kangaroo CCTGACCGTGCAAAGGTAGCATAATCACTTGTCTCTTAATTAGAGACTCGTATGAATGGC [1993]

Hedgehog CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTTTAATTAAGGACTCGCATGAATGGC [1988]

Mole CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAATTAAGGACTTGTATGAATGGC [2000]

Sloth CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTTTAATTAAGGACTTGCATGAAAGGC [2014]

Pangolin TCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTCTAAATAAGGACTAGTATGAATGGC [1987]

Rat CCCGACCGTGCAAAGGTAGGATAATCACTTGTTCCTTAATTAGGGACTAGAATGAATGGC [1992]

Capybara CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTTTAAATAAGGACTAGTATGAACGGC [1986]

Rabbit CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCCTTAATTGGGGACTAGCATGAATGGC [1999]

Round\_Eared\_Bat CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTCTAAATAAGGACTTGTATGAACGGC [2018]

Flying\_Fox CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAAATAAGGACTTGTATGAATGGC [2007]

Aardvark TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAAATAAGGACTTGCATGAATGGC [2001]

Elephant\_Shrew TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTTTAATTAAGGACTTGTATGAACGGC [1991]

Hyrax TCTGACCGTGCGAAGGTAGCATAATCACTTGTTCCTTAATTAGGGACTGGTATGAACGGC [1996]

Dugong TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCTTAATTAGGGACTTGTATGAACGGC [1995]

Elephant TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCTTAATTAGGGACTTGTATGAACGGC [1999]

Pig TCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTCCAAATAAGGACTTGTATGAATGGC [1996]

Cow CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAAATAAGGACTTGTATGAATGGC [2002]

Hippo CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCTTAAATAGGGACTTGTATGAATGGC [2004]

Whale CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCTCTAATTAGGGACTTGTATGAATGGC [2020]

Horse CCTAACCGTGCAAAGGTAGCATAATCACTTGTTCCCTAAATAGGGACTTGTATGAATGGC [2019]

Rhino CCTAACCGTGCAAAGGTAGCGTAATCACTTGTTCCCTAAATAGGGACCTGTATGAATGGC [2012]

Cat CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCCTAAATAGGGACTTGTATGAACGGC [2001]

Dog CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAAATAGGGACTTGTATGAATGGC [1997]

Human CCTAACCGTGCAAAGGTAGCATAATCACTTGTTCCTTAAATAGGGACCTGTATGAATGGC [1990]

Galago CCTGACCGTGCAAAGGTAGCATAATCACTTGTTCCTTAATTGAGGACTAGAATGAATGGC [2018]

Flying\_Lemur CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCTTAATTAGGGACTTGCATGAAAGGC [2003]

Tree\_Shrew CCTGACCGTGCAAAGGTAGCATAATCATTTGTTCCTTAATTAGGGACTTGTATGAACGGC [1984]

Madagascar\_Hedgehog TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTCTAAATAAGGACTTGTATGAATGGC [1993]

Golden\_Mole TCTGACCGTGCAAAGGTAGCATAATCATTTGTTCTTTAATTAAGGACTTGTATGAATGGC [1995]

[ 2170 2180 2190 2200 2210 2220]

[ . . . . . .]

Opossum ATAACGAGGGTTCAACTGTCTCTTTTTCTTAATCAATGAAATTGACCTACCCGTGCAGAG [2059]

Kangaroo ATCACGAGGGTTTAACTGTCTCTTATTCCCAATCAGTGAAATTGACCTTCCCGTGCAGAG [2053]

Hedgehog TTCACGAGAGCTTAACTGTCTCCTGACCTAAATCAGTGAAATTGACTTTCCCGTGAAAAG [2048]

Mole CACACGAGGGTTTAACTGTCTCTTACTTCTAATCAGTGAAATTGACCTTCCCGTGAAGAG [2060]

Sloth CCAACGAGGATTTTACTGTCTCCTACTTCCAATCAATGAAATTGACCCCCCCGTGAAGAG [2074]

Pangolin CAAACGAGGACTTTACTGTCTCTCATCTGCAATCAGTGAAATTGACCTTCCCGTGAAAAG [2047]

Rat TAAACGAGGGTCCAACCGTCTCTTACTTGCAATCAGTGAAATTGACCTTCCAGTGAAGGG [2052]

Capybara TTAACGAGGATTTAACTGTCTCTTGCCTTATGTCTGTGAAATTGACCTCCCCGTGAAGAG [2046]

Rabbit AACACGAGGGTTAAACTGTCTCTTTCTTCCAATCAGTGAAATTGACCTCCCCGTGAAGAG [2059]

Round\_Eared\_Bat CACACGAGGATTCTACTGTCTCTTACTCCCGATCAGTGAAACTGACCTTCCCGTGAAGAG [2078]

Flying\_Fox CACACGAGGGTTTTACTGTCTCTTACTTCCAATCAGTGAAATTGACCCTCCCGTGAAGAG [2067]

Aardvark CACACGAGAATTCAACTGTCTCTTGCTTTTTATCAGTGAAATTGACCTTCCCGTGAAGAG [2061]

Elephant\_Shrew AAGACGAGAGTTCAACTGTCTCCTCATTCCAATCAGTGAAATTGACCTCTCCGTGAAGAG [2051]

Hyrax CACACGAGGGCTAAACTGTCTCTTATCTCCAATCAGCGAAATTGACCTCCCCGTGAAGAG [2056]

Dugong CACACGAGGGTCTAACTGTCTCTTTCTTCCAATCAGTGAAATTGACCTCCCCGTGAAGAG [2055]

Elephant CACACGAGGGTTTAACTGTCTCTTTCCTCTAATCAATGAAATTGACCTTCTCGTGAAGAG [2059]

Pig CACACGAGGGTTTTACTGTCTCTTACTTCCAATCAGTGAAATTAACCTTCCCGTGAAGAG [2056]

Cow CGCACGAGGGTTTTACTGTCTCTTACTTCCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2062]

Hippo CACACGAGGGTTTTACTGTCTCTTGCTTTCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2064]

Whale CACACGAGGGTTTTACTGTCTCTTACTTTTAATCAGTGAAATTGACCTCTCCGTGAAGAG [2080]

Horse CACACGAGGGTTTTACTGTCTCTTACTTCCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2079]

Rhino CACACGAGGGTTTTACTGTCTCTTACTTTCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2072]

Cat CACACGAGGGCTTTACTGTCTCTTACTTCCAATCCGTGAAATTGACCTTCCCGTGAAGAG [2061]

Dog CACACGAGGGTTTAACTGTCTCTTACTCCCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2057]

Human TCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTGAAGAG [2050]

Galago CACACGAGGGTTTAACTGTCTCTTACTTATAATCAGTGAAATTGACCTCTTCGTGAAGAG [2078]

Flying\_Lemur CACACGAGGGTTTTACTGTCTCCTGCCTCCAATCAGTGAAATTGACCTCCCCGTGAAGAG [2063]

Tree\_Shrew CACACGAGGGTTTAACTGTCTCTTACTCTTGATCAGTGAAATTGACCTCCCCGTGAAGAG [2044]

Madagascar\_Hedgehog AACACGAGGATTTAACTGTCTCTTACTTCTTATCAGTGAAATTGACCTCCCCGTGAAGAG [2053]

Golden\_Mole CACACGAGGATTTAACTGTCTCTTATCTCCAATCAGTGAAATTGACCTTCCCGTGAAGAG [2055]

[ 2230 2240 2250 2260 2270 2280]

[ . . . . . .]

Opossum GCGGGTATATTAATATAAGACGAGAAGACCCTGTGGAGCTTAAGAT---TAATAACTTAA [2116]

Kangaroo GCGGGAATATTAATACAAGACGAGAAGACCCTGTGGAGCTTAAGAT---TCATAGTCTAA [2110]

Hedgehog GCGGGAATACTATAATAAGACGAGAAGACCCTATGGAGCTTTAGTATAAAAACTAAGACC [2108]

Mole GCGGGAATAATACAATAAGACGAGAAGACCCTATGGAGCTTCAATTAACCAGTTCAATAA [2120]

Sloth GCAGGGATAACCATATAAGACGAGAAGACCCTACGGAACTTTAATTAACTAGCCTATCAT [2134]

Pangolin GCGGGAATAATAGAATAAGACGAGAAGACCCTATGGAGCTTTAATTA-TCAACTTA---A [2103]

Rat GCGGACTCATAATAA-AAGACGAGAAGACCCTATGGAGCTTTAATTTACTAATTT----- [2106]

Capybara GCGGGGATAACTTAACAAGACGAGAAGACCCTATGGAGCTTTAATTTATTAATTTAA--- [2103]

Rabbit GCGGGGATAAAATAATAAGACGAGAAGACCCTATGGAGCTTTAATTATTTAACCCAAC-- [2117]

Round\_Eared\_Bat GCGGGAATATTAAAATAAGACGAGAAGACCCTATGGAGCTTTAATTAATTAACCTAAG-A [2137]

Flying\_Fox GCGGGAATATACAAATAAGACGAGAAGACCCTATGGAGCTTTAATTAATTAGCCCAAT-A [2126]

Aardvark GCGGGTATGTAACTATAAGACGAGAAGACCCTATGGAGCTTAAATTAATTAATTCAACAA [2121]

Elephant\_Shrew GCGGAGATAAAGTTATAAGACGAGAAGACCCTATGGAGCTTAAATTTACTTATCTAAAGT [2111]

Hyrax GCGGGGACAAAAATATAAGACGAGAAGACCCCATGGAGCTTCAATTAACTAATTCAATTA [2116]

Dugong GCGGGGATAAACCTATAAGACGAGAAGACCCTATGGAGCTTAAATTAATTAGTTCAACCA [2115]

Elephant GCGAGAATAAACATATAAGACGAGAAGACCCTATGGAGCTTAAATTAACTAATTTAATTG [2119]

Pig GCGGGAATAAAAAAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACTATTCCAAA-A [2115]

Cow GCGGGAATGCACAAATAAGACGAGAAGACCCTATGGAGCTTTAACTAACCAACCCAAA-G [2121]

Hippo GCGGGAATAATACAATAAGACGAGAAGACCCTGTGGAGCTTCAATTAGCTGACTCAAT-A [2123]

Whale GCGGAGATAACAAAATAAGACGAGAAGACCCTATGGAGCTTCAATTAATCAACCCAAA-A [2139]

Horse GCGGGAATGACTAAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACTGATTCACAAA [2139]

Rhino GCGGGAATAGCACAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACTAATTCACAAA [2132]

Cat GCGGGAATATAATAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACCGACCCAAAGA [2121]

Dog GCGGGAATACCACAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACTAACCCAAACT [2117]

Human GCGGGCATAACACAGCAAGACGAGAAGACCCTATGGAGCTTTAATTTATTAATGCAAACA [2110]

Galago GCGAAGATGTACGAATAAGACGAGAAGACCCTATGGAGCTTAAATT---TAGCACCCATG [2135]

Flying\_Lemur GCGGGGATGCAAAAATAAGACGAAAAGACCCTATGGAGCTTCAATTAACTAGCCCAAGCA [2123]

Tree\_Shrew GCGGGGATACACAAATAAGACGAGAAGACCCTATGGAGCTTTAATTAACTAACTCACATA [2104]

Madagascar\_Hedgehog GCGGGGATTAGAACATAAGACGAGAAGACCCTATGGAGCTTAAATTAA-TAACCCAATTG [2112]

Golden\_Mole GCGGGAATAAACATATAAGACGAGAAGACCCTATGGAGCTTCAATTAACTAATTCACTAA [2115]

[ 2290 2300 2310 2320 2330 2340]

[ . . . . . .]

Opossum ATAAA-ACTAGTACA-AACCCT----AGGG--AATAACATTA--TTATTATTAAGTTATA [2166]

Kangaroo TTCAAACAATTCTA-CCCTACAT-ACAGGAAC-AAACACAGAC-CTA--CTAGACTAT-A [2163]

Hedgehog A----ATTTATAATAACCTAA-----GGGTATAT-----AAATAAGTTAACTAGTT-ATA [2153]

Mole GGTGTAATACTAAACCCAACCA----GGGGATAA---AAAA-CCTAAAACTGAACC-GGC [2171]

Sloth A----ACCCATACAAAC-CT-AG-CGGGGACAACT--TTCCATGAC---CTAGACT-AGC [2181]

Pangolin AAT-TATTTATATACACTTCTA---AGGAAATAA----AAACTAATTTTATGAGCA-ACT [2154]

Rat -CAATTTATATAAAAAAACCTA---ATGGGCGAA---AACAACAAAATTATGAACTACCA [2159]

Capybara -CTTAACCACTTTAAACCCACA---AGGGCACAA---ATACACACAAGCCTAAATT-AAT [2155]

Rabbit ACTTCCTTTATTCTACTCTACA---ATGAGCCTA---ACCAAGGAAATCCCTGGGTTAAA [2171]

Round\_Eared\_Bat GCA-ACACAT-TAACAACCAAA----AGGAATAAA-CTA---ATCTCAAATAGGTT-AAC [2186]

Flying\_Fox AAT-AAATAACTTACACTTCTA----AGGAAAACA-AGA-AACCTTTTGATGGGCT-AAC [2178]

Aardvark CTC--AAATTACTAAGTGCTAA----TAGCATAT---ATCTCTAGTTTAATGAATT-AAC [2171]

Elephant\_Shrew CTA--ACTAC---TAATCCGAC----AGGTATA----CTTCACATCTCTCTAGATA-AAA [2157]

Hyrax TAA--AAACA--CAAATCCAAG----GACATAA-----AAAAAATATTAATGAATT-AGC [2162]

Dugong CA---AAACA--TATACCCTAC----GGGGCCA----CCCAACAGTTTAATGAACT-AAC [2161]

Elephant CTA--GCCTA--TAAATCTATA----AGATACAA---CTAAACAGCATGATAAATT-AAC [2167]

Pig GT---TAAACAACTCAACCACA---AAGGGATAAA-ACATAACTTAACA-TGGACT-AGC [2166]

Cow AG---AATAGATTTAACCATTA---AGGAA-TAA---CAACAATCTCCA-TGAGTT-GGT [2169]

Hippo AA---AACAAAAT-AAACCCGC---AAGGCACAA---TAAAATCCTATA-TGAGTC-AGT [2171]

Whale AC---CATAACCTTAAACCACC---AAGGGATAA---CAAAACCTTATA-TGGGCT-GAC [2188]

Horse AAA-CAACACACAAACCTTAACCTTCAGGGACAA---CAAAACTTTTGATTGAATC-AGC [2194]

Rhino AAA-TAAAATCTCTAACCCACATCCAGGGGATAA---CAAAA-CTTTGACTGAATT-AGT [2186]

Cat GAC-CATATGAACCAACCGAC-----AGGAACAA---CAAACCTCTATA-TGGGCC-GGC [2170]

Dog TAT-GGATACTAGATACCTAC----AAGGCATAACATAACACCATTATTATGAGTT-AGC [2171]

Human G----TACCTAACAAACCCA----CAGGTCCTAAA--CTACCAAAC---CTGCATT-AAA [2156]

Galago T----TTCACACTACAACTC-TC-CAGAGCTCAAC--ACTCCTACA--CCTGGGTA-TAC [2184]

Flying\_Lemur A----AACAATACAAACCTAACC-CAGGCATCAAC--AACACAAACTCTCTGAGCT-AGG [2175]

Tree\_Shrew T----AATTAAACCTAATCC-??-A?GGAAATAAA--AAACATAT---TCTGAGTT-AGC [2152]

Madagascar\_Hedgehog TTT--CTCAC---AAAACCAAA----AGGCATAA---C-TATAACTATATGGAGAA-AG- [2157]

Golden\_Mole CTT--ATAAA---ATCACCAAT----AGGCACAA---AACAAAATTAAACTGAATT-AGC [2162]

[ 2350 2360 2370 2380 2390 2400]

[ . . . . . .]

Opossum TTCTTTGGTTGGGGTGACCTCGGAGAACAAAAAAACCTCCGAATGAC---AT-AACCT-- [2220]

Kangaroo ACCTTTGGTTGGGGTGACCTCGGAGCATAAAAAAACCTCCGAATGAC---T-AAGCCA-- [2217]

Hedgehog AACTTTGGTTGGGGTGACCTCGGAGAACAAAAGAACCTCCGAATGATT--CTAATCT--- [2208]

Mole AATTTAGGTTGGGGTGACCTCGGAGTAAAAAACAACCTCCGAGAGATT---TCAGTC--- [2225]

Sloth AATTTCGGTTGGGGTGACCTCGGAGTACAAAAAAACCTCCGAATGACCA--TGCACCC-- [2237]

Pangolin AATTTTGGTTGGGGTGACCTCGGAGAAAAAAATAACCTCCGAGCGGTT---TAAATC--- [2208]

Rat AATTTCGGTTGGGGTGACCTCGGAGAATAAAAAATCCTCCGAATGATTATAACCGAGTCG [2219]

Capybara AATTTCGGTTGGGGTGACCTCGGAGAATAATAAAACCTCCGAATGATA---TTAACC--- [2209]

Rabbit AATTTTGGTTGGGGTGACCTCGGAGTATAAATCAACCTCCGAATGATT---TTAGCC--- [2225]

Round\_Eared\_Bat AATTTAGGTTGGGGTGACCTCGGAGCACAGAACACCCTCCGAGTAAAT-TACAAGCC--- [2242]

Flying\_Fox AATTTAGGTTGGGGTGACCTCGGAATACAAAACAACTTCCGAGAGAC---AAAAACT--- [2232]

Aardvark AATTTAGGTTGGGGTGACCTCGGAGCATAAAAAACCCTCCGAATGATATT-ATG-TTA-- [2227]

Elephant\_Shrew AATTTTGGTTGGGGTGACCTCGGAGCAAAAAACAACCTCCGAATAATATT-CTG-CTA-- [2213]

Hyrax AATTTTGGTTGGGGTGACCTCGGAGAACAAAAAACCCTCCGAATGACAT---AGACCT-- [2217]

Dugong AATTTTGGTTGGGGTGACCTCGGAGAACAAAAAAACCTCCGAATGATACT-ATAACCC-- [2218]

Elephant AATTTTGGTTGGGGTGACCTCGGAGAAGAAAAAATCCTCCGAACGATATT-ATAATTT-- [2224]

Pig AATTTCGGTTGGGGTGACCTCGGAGTACAAAAAACCCTCCGAGTGATT---TTAATC--- [2220]

Cow AGTTTCGGTTGGGGTGACCTCGGAGAATAAAAAATCCTCCGAGCGATT-TTAAAGAC--- [2225]

Hippo AATTTTGGTTGGGGTGACCTCGGAGAAAAAAGAATCCTCCGAGTGATA---AAAATC--- [2225]

Whale AATTTCGGTTGGGGTGACCTCGGAGTACAAAAAACCCTCCGAGTGATT---AAAACT--- [2242]

Horse AATTTCGGTTGGGGTGACCTCGGAGAACAAAACAACCTCCGAGTGATT---TAAATC--- [2248]

Rhino AATTTCGGTTGGGGTGACCTCGGAGAACAAGCCAACCTCCGAGTGATT---AAATTC--- [2240]

Cat AATTTAGGTTGGGGTGACCTCGGAGAATAAAACAACCTCCGAGTGATT---TAAATC--- [2224]

Dog AATTTAGGTTGGGGTGACCTCGGAATATAAAAAAACTCCCGAGTGATT---AAAATT--- [2225]

Human AATTTCGGTTGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTA---CATGCTA-- [2211]

Galago AATTTTGGTTGGGGTGACCTCGGAGCACAAATCAACCCCCGAGTATTA---TCTACCT-- [2239]

Flying\_Lemur AATTTCGGTTGGGGCGACCTCGGAATAAAAAACAACCTCCGAATGAC----CATGACT-- [2229]

Tree\_Shrew AATTTTGGTTGGGGTGACCTCGGAGAATAAAGCATCCTCCGAAAATAA---TAAGCCA-- [2207]

Madagascar\_Hedgehog -ATTTCGGTTGGGGTGACCTCGGAGCATAATTAAACCTCCGAATGATATA-TACATCT-- [2213]

Golden\_Mole AATTTTGGTTGGGGTGACCTCGGAGTACAACACAACCTCCGAATGATAAA-TA--TCT-- [2217]

[ 2410 2420 2430 2440 2450 2460]

[ . . . . . .]

Opossum -------AGAT-TAACTAATCCAAGTGC--ACAA-AAGCCAGTAATTGACCCAAAT---A [2266]

Kangaroo -------AGAT-TCATTAATCTAAGCGTA--ACA-CTACCAGTAATTGACCCATAT---T [2263]

Hedgehog -------TAGACTCACAAGTCAAAGT----ATGAT----CATTTATTGACCCAGTAAATT [2253]

Mole -------GAGACCTACAAGTCAAAACCTGAAAAAA----ATTTAATTGATCCAACAACCA [2274]

Sloth -------AGACCTCACCAGTCAACGTGCCTCAATA-TCAACTCAATTGACCCAA--GTAA [2287]

Pangolin -------TAGACTTACAAGTCTAAAAA-TCCGT---------TAATTGATCCAATAT--- [2248]

Rat GTAACCGTGTCCGACCCAGTCAA-GTAATACTAAT--ATCTT--ATTGACCCAATTAT-- [2272]

Capybara ------TAGACACTACAAGTCAAAGT------CCACAATCATCAATTGACCCAAAAACCT [2257]

Rabbit ------TAGACCCAACAAGTCAAAGC----AATTATAATCATAAATTGACCCAAATAA-- [2273]

Round\_Eared\_Bat -------CAGACCCACAAGTCAAAGC--ACACCAT-----ACATATTGATCCAAAACT-- [2286]

Flying\_Fox -------TAGACCAACAAGTCAACGG--ATTCAGT----CATTTATTGATCCAAAAAA-- [2277]

Aardvark -------AGACTCAACCAGTCTAAACTTCT-ACAT----CACCAATTGATCCATAT--AC [2273]

Elephant\_Shrew -------TGATTTAACTAATCTAAGCTT----GAA----ATTTAATTGACCCAATA--TA [2256]

Hyrax -------AGGCTTAACTAGCCAAAGTAC-C-AAAT----CATCTATTGACCCAATA--TA [2262]

Dugong -------AGACTTAACCAGTCGAAGTCCAT-AAAT----CACTTATTGACCCAAT---TA [2263]

Elephant -------AGACTCTACAAGTCAAAATTTAC-TAAT----CGCTTATTGACCCAAT---AC [2269]

Pig -------TAGACAAACCAGTCAAAATA-ACCATAA-CATCACTTATTGATCCAAAATT-- [2269]

Cow -------TAGACCCACAAGTCAAATC--ACTCTAT----CGCTCATTGATCCAAAAAC-- [2270]

Hippo -------TAGACTCACCAGTCAAAAC--ATAACAA----CACTCATTGACCCAAAAC--C [2270]

Whale -------TAGGCCCACTAGCCAAAGT--ACAATAT----CACTTATTGATCCAATCC--T [2287]

Horse -------CAGACTAACCAGTCAAAAT--ATATAAT----CACTTATTGATCCAAA--CCA [2293]

Rhino -------CAGACTTACCAGTCAAAAAT-ATTACAT----CACTTATTGATCCAAA--CCA [2286]

Cat -------TAGACTAACCAGTCGAAAGT-ACTACAT----CACTTATTGATCCAAAAAC-C [2271]

Dog -------TAGACCCACAAGTCAAAAT--ACAACAT----CACTTATTGATCCAATAATTT [2272]

Human -------AGACTTCACCAGTCAAAGCG--AACTAC-TATACTCAATTGATCCAA--TAAC [2259]

Galago -------AGACTTAACCAGTCAAAGTATACAAGCA-CCATATACATTGACCCAAA-TTAA [2290]

Flying\_Lemur -------TAAACTAACCAGTTAAAGTA--A--TAA-ATTCATCAATTGATCCAAAGCAAT [2277]

Tree\_Shrew -------AGACATAACAAGTCAAAGCA--ATCTTA-AGCCATA-ATTGATCCAA--TAAG [2254]

Madagascar\_Hedgehog -------AGACCT-ACAAGTCGCAATTA---AAAT----CACTTATTGACCCAATT--AC [2256]

Golden\_Mole -------AGACTT-ACAAGTCAAAATTT---AAAT----CAATTATTGACCCAAAA--AA [2260]

[ 2470 2480 2490 2500 2510 2520]

[ . . . . . .]

Opossum TT---GATCAACGGAACAAGTTACCCCAGGGATAACAGCGCAATCCTATTTAAGAGCCCA [2323]

Kangaroo TT---GATCAACAGAACAAGTTACCCCAGGGATAACAGCGCAATCCTATTTAAGAGCCCA [2320]

Hedgehog CTACTGATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCAAGAGTTCA [2313]

Mole TGTT-GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTAAGAGTCCA [2333]

Sloth TT---GATCAACGGAACAAGCTACCCTAGGGATAACAGCGCAATCCTATTTCAGAGTCCA [2344]

Pangolin TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCAAGAGTTCC [2305]

Rat --T--GATCAACGGACCAAGTTACCCTAGGG-TAACAGCGCGA-CCTATTTAAGAGTTCA [2326]

Capybara TTT--GATCAACGGACCAAGTTACCCTAGGGATAACAGCGCAATCCTGTTTTAGAGTCCA [2315]

Rabbit TTT--GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTTAGAGTCCC [2331]

Round\_Eared\_Bat TTT--GATCAACGAAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTAAGAGTCCA [2344]

Flying\_Fox TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTGAGAGTCCA [2334]

Aardvark TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCCC [2330]

Elephant\_Shrew TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTTAGAGTCCA [2313]

Hyrax TT---GATCAACGGAACAAGTTACCCTGGGGATAACAGCGCAATCCTATTCTAGAGTCCC [2319]

Dugong TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTTAGAGTCCA [2320]

Elephant TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTACTCTAGAGTCCC [2326]

Pig TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTGTTCTAGAGTTCC [2326]

Cow TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCAAGAGTCCA [2327]

Hippo TTT--GATCAACGGAACAAGTTACCCCAGGGATAACAGCGCAATCCTATTCTAGAGTCCA [2328]

Whale TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCCA [2344]

Horse TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCCAGAGTCCA [2350]

Rhino TT---GATCAACGGAATAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCCA [2343]

Cat TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTTCAGAGTCCA [2328]

Dog TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCAAGAGTCCA [2329]

Human TT---GACCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCCA [2316]

Galago TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATCCTATTCTAGAGTCCA [2347]

Flying\_Lemur TT---GATCAACGGAACAAGTTACCCTAGGGATAACAGCGCAATTCTATTATAGAGTCCA [2334]

Tree\_Shrew TT---GATCAATGGAACCAGTTACCCTAGGGATAACAGCGCAATCCTATTTTAGAGTTCA [2311]

Madagascar\_Hedgehog TT---GAACAACGGACCAAGTTACCCTAGGGATAACAGCGCAATCCTATTTAAGAGTTCA [2313]

Golden\_Mole TT---GATCAACGGACCAAGTTACCCTAGGGATAACAGCGCAATCCTGTTACAGAGTCCA [2317]

[ 2530 2540 2550 2560 2570 2580]

[ . . . . . .]

Opossum TATCGAAAATCTAGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAACC [2383]

Kangaroo TATCGACAAT-TAGGGTTTACGACCTCGATGTTGGATCAGGACATCCAAATGGTGCAGCC [2379]

Hedgehog TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGTAACA [2371]

Mole TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGAA [2391]

Sloth TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAGTAGTGTAACC [2402]

Pangolin TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGCGCAGCT [2363]

Rat TATCGACAAT-TAGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGAA [2385]

Capybara TATCGACAAC--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCC [2373]

Rabbit TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGTAGCC [2389]

Round\_Eared\_Bat TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCA [2402]

Flying\_Fox TATCGATAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGCC [2392]

Aardvark TATCGACGAT--TGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGTAGCA [2388]

Elephant\_Shrew TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCA [2371]

Hyrax TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGGCATCCCATTGGTGTAGCC [2377]

Dugong TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGCA [2378]

Elephant TATCGACAGC--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCC [2384]

Pig TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACACCCAAATGGTGCAGCC [2384]

Cow TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTGATGGTGCAACC [2385]

Hippo TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGCC [2386]

Whale TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCT [2402]

Horse TATCGACAAT-TAGGGTTTACGACCTCGATGTTGGATCAAGACATCCTAATGGTGCAACC [2409]

Rhino TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAACC [2401]

Cat TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCGATGGTGCAGCA [2386]

Dog TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCTAATGGTGCAGCA [2387]

Human TATCAACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCGATGGTGCAGCC [2374]

Galago TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGTAACC [2405]

Flying\_Lemur TATCGACAAT--AGAGTTTACGACCTCGATGTTGGATCAGGACACCCCAATGGTGCAGCA [2392]

Tree\_Shrew TATCGACAAT--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAACC [2369]

Madagascar\_Hedgehog TATCGACGAT--AGGGTTTACGACCTCGATGTTGGATCAGGACACCCAGATGGTGCAACA [2371]

Golden\_Mole TATCGACAAC--AGGGTTTACGACCTCGATGTTGGATCAGGACATCCCAATGGTGCAGCA [2375]

[ 2590 2600 2610 2620 2630 2640]

[ . . . . . .]

Opossum GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2442]

Kangaroo GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2438]

Hedgehog GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2430]

Mole GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2450]

Sloth GCCACTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2461]

Pangolin GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2422]

Rat GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTAAGTCC------- [2437]

Capybara GCTATTAAGGGTTCGTTTGTTCAACGATTAACAGTCCTACGTGATCTGAGTTCAGACCGG [2433]

Rabbit GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2448]

Round\_Eared\_Bat GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2461]

Flying\_Fox GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2451]

Aardvark GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2447]

Elephant\_Shrew GCTATTAAGGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2430]

Hyrax GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGCCCTACGTGATCTGAGTTCAGACCGG [2436]

Dugong GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2437]

Elephant GCTATTAAGGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2443]

Pig GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2443]

Cow GCTATCAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2444]

Hippo GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2445]

Whale GCTATTAAGGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2461]

Horse GCTATTAAGGGTTCGTTTGTTCAACGATTAA-AGTCTTACGTGATCTGAGTTCAGACCGG [2468]

Rhino GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2460]

Cat GCTATCAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2445]

Dog GCTATTAAGGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2446]

Human GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2433]

Galago GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2464]

Flying\_Lemur GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2451]

Tree\_Shrew GCTATTAATGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2428]

Madagascar\_Hedgehog GCTATCAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2430]

Golden\_Mole GCTATTAAAGGTTCGTTTGTTCAACGATTAA-AGTCCTACGTGATCTGAGTTCAGACCGG [2434]

[ 2650 2660 2670 2680 2690 2700]

[ . . . . . .]

Opossum AGAAATCCAGGTCGGTTTCTATCTATAT-ATTAATTTCTCCCAGT-ACGAAAGGACCAGA [2500]

Kangaroo AGAAATCCAGGTCGGTTTCTATCTGTAC-ATTAATTCCTCCCAGT-ACGAAAGGACAAGA [2496]

Hedgehog AGTAATCCAGGTCGGTTTCTATCTATT--AAATATTTCTCCTAGT-ACGAAAGGACCAGA [2487]

Mole AGCAATCCAGGTCGGTTTCTATCTATT--ATATATTTCTCCCAGT-ACGAAAGGACAAGA [2507]

Sloth AGTAATCCAGGTCGGTTTCTATCTAT-A-AACCTTTTCTCCCAGT-ACGAAAGGACAAGA [2518]

Pangolin AGTAATCCAGGTCGGTTTCTATCTATTT-ATATATTTTTCCCAGT-ACGAAAGGACAAGA [2480]

Rat GGCAATCCAGGTCGGTTTCTATCTATTT-A-CAATTTCTCCCAGTTACGAAAGGACAAGA [2495]

Capybara AGTAATCCAGGTCGGTTTCTATCTGTTT-A-AGACTTCTCCCAGT-ACGAAAGGACAAGA [2490]

Rabbit AGAAATCCAGGTCGGTTTCTATCTATTA-A-GTATTTCTCCCAGT-ACGAAAGGACAAGA [2505]

Round\_Eared\_Bat AGTAATCCAGGTCGGTTTCTATCTATT--TTATGTCCCTCCCAGT-ACGAAAGGACAAGA [2518]

Flying\_Fox AGTAATCCAGGTCGGTTTCTATCTATT--TTGTGCTTCTCCCAGT-ACGAAAGGACAAGA [2508]

Aardvark AGCAATCCAGGTCGGTTTCTATCTATAC--CTAATTTTTCCCAGT-ACGAAAGGAAAAGA [2504]

Elephant\_Shrew AGCAATCCAGGTCGGTTTCTATCTATAA--CCAACTTCTCCCAGT-ACGAAAGGATCAGA [2487]

Hyrax AGCAATCCAGGTCGGTTTCTATCTATAC--CCATTTTCTCCCAGT-ACGAAAGGACAAGA [2493]

Dugong AGCAATCCAGGTCGGTTTCTATCTATAT--ACCATTTCTCCCAGT-ACGAAAGGACAAGA [2494]

Elephant AGCAATCCAGGTCGGTTTCTATCTATAG--TTTATTTATTCCAGT-ACGAAAGGACAGAA [2500]

Pig AGCAATCCAGGTCGGTTTCTATCTATT--ATAAATTTCTCCCAGT-ACGAAAGGACAAGA [2500]

Cow AGTAATCCAGGTCGGTTTCTATCTATT--ACGTATTTCTCCCAGT-ACGAAAGGACAAGA [2501]

Hippo AGCAATCCAGGTCAGTTTCTATCTATT--ATACATTTCTCCCAGT-ACGAAAGGACAAGA [2502]

Whale AGTAATCCAGGTCGGTTTCTATCTATT--ACGCATTTCTCCCAGT-ACGAAAGGACAAGA [2518]

Horse AGTAATCCAGGTCGGTTTCTATCTATTC-TATA-CTTTTCCCAGT-ACGAAAGGACAAGA [2525]

Rhino AGTAATCCAGGTCGGTTTCTATCTATTC-AATA-TTTCTCCTAGT-ACGAAAGGAAAAGA [2517]

Cat AGTAATCCAGGTCGGTTTCTATCTATTT-AATAACTTCTCCCAGT-ACGAAAGGACAAGA [2503]

Dog AGTAATCCAGGTCGGTTTCTATCTATTA-TACAACCTCCCCCAGT-ACGAAAGGACAAGG [2504]

Human AGTAATCCAGGTCGGTTTCTATCTACCT-TCAAATTCCTCCCTGT-ACGAAAGGACAAGA [2491]

Galago AGAAATCCAGGTCGGTTTCTATCTAT-T-A-ACATTTCTCCCAGT-ACGAAAGGACAAGA [2520]

Flying\_Lemur AGCAATCCAGGTCGGTTTCCATCTATTA-ATATATTTCTCCCAGT-ACGAAAGGACAAGA [2509]

Tree\_Shrew AGTAATCCAGGTCGGTTTCTATCTAT-T-AGATACTCCTCCCAGT-ACGAAAGGACAAGA [2485]

Madagascar\_Hedgehog AGCAATCCAGGTCGGTTTCTATCTATTTTATTAATCTCTCCTAGT-ACGAAAGGACCAGA [2489]

Golden\_Mole AGTAATCCAGGTCGGTTTCTATCTATATAATTA-TTTCTCCCAGT-ACGAAAGGACAAGA [2492]

[ 2710 2720 2730 2740 2750 2760]

[ . . . . . .]

Opossum GAAATAGGGCCAACATTA-TC-TATGCGCCCTCATAA--AATTAATGAAATATATCTAAA [2556]

Kangaroo GAAATAAGGCCTACACTACAC-AGTGAGCCTTAGAAGC-AAGATATGAATAT-ATCTAAA [2553]

Hedgehog GAAATAAGGCCAACTGATATA-TCAGAGCCTTAAGCAGATATAGATGAATT-AATCTTAA [2545]

Mole GAAATAAGGCCAACTCTAC-A-GGAGAGCC-TTAAAATTAATAGATGATAT-CATCTCAA [2563]

Sloth GAAACTGGGCCTACTCTACAA--AAGCGCCCTAAAACCTAATAGATGACCA-AATCTAAA [2575]

Pangolin AAAATAGGGCCTACCTTAC-A-AAAGCGCC-CTCAAACTAATAAATGACAT-ATTCTTAA [2536]

Rat GAAATGGAG--ACCAACCAAT-CCTAGGCT-TCCAACC-AATTTA-GA----AAAACTTA [2545]

Capybara GAAGTGGGGCCAATGGTCAAG-CCATGCCC-TGATAACTAAAAAATGATAT-CATATTAA [2547]

Rabbit GAAATAGAGCCTAC-TGCACC-ACAGAGCT-CTAAGTCCAAAAGATGAAAT-AATCTTAA [2561]

Round\_Eared\_Bat GAGACAAGGCCCCCTTAAC-A-CAAGCGCCTTCCAGCCTAACAGATAACCT-GACATCAA [2575]

Flying\_Fox GAGACAGGGCCTACTTAAC-A-CAAGCGCCCTTAAAGCCAACAGATGACAC-AATCTCAA [2565]

Aardvark AAAATAGAGCCTACTCCTACA-GAAGCGCTCTTAAATTTAATGGATGAATT-TATATAAA [2562]

Elephant\_Shrew GAAGTGAAGCCCACTTACAAA---AGCGCTTCA-GATTAGATTAATGAAAT-AATCTTAA [2542]

Hyrax GAAACAAGGCCTACTAATAAATC-AGCGCCTT--AGCCTAATTTATGAAAT-AATCTTAA [2549]

Dugong GAA-TAGAGCCAACTCCCACATGAAGCGCTCTAAACTTAATTCTATGAATT-AATCTCAA [2552]

Elephant AAAATGAGGCCAATCTTACCAAGACGCCTCC---AGCTAAATTTATGAATA-AATCTCAA [2556]

Pig GAAATGGGACCAACCTCAC-A-AACGCGTC-TCAGAGATAATTAATGATTT-AATCTTAA [2556]

Cow GAAATAAGGCCAACTTTAAAT-CAAGCGCC-TTAAGAC-AACCAATGATAA-CATCTCAA [2557]

Hippo GAAATGAGGCCTACTTCCA-A-TAAGCGCC-TTAAAACTAATTAATGATAT-AGTCTTAA [2558]

Whale GAAATAAGGCCAACTTCAA-A-CAAGCGCC-TTCAAAC-AATTAATGACCT-AGTCTCAA [2573]

Horse AAAGTAGGGCCCACTTTACAA-GAAGCGCC-CTCAAACTAATAGATGACAT-AATCTAAA [2582]

Rhino GAAATAAGGCCCACTTCACAA--AAGCGCC-TTCAAATCAATAGATGATAT-AATCTAAA [2573]

Cat GAAGTGAGGCCCACTTCACCA--AAGCGCC-TTTAACCAAATAGATGATAT-AATCTTAA [2559]

Dog GATGTAAGGCCTACCTCACAG--AGGCGCC-TTAAAACTAATAGATGAAGT-CAACTCAA [2560]

Human GAAATAAGGCCTACTTCACAA---AGCGCCTTC--CCCCG-TAAATGATAT-CATCTCAA [2544]

Galago GAAATAGAGCCAATAGCACAG-CT-AAGCTCTCAACCAAA-TAGATGACAA-CATCTAAA [2576]

Flying\_Lemur GAAATAAGGCCTACCCCTAAG-AGGACGCCTTCAGCTTCAATGGATGATTT-AATCTCAA [2567]

Tree\_Shrew GGAGTAAGGCCAATTCATCAA-GC-ACGCCTTAGACTTAA-TAGATGAACT-CATCTAAA [2541]

Madagascar\_Hedgehog GAGATAAGGCCAACTTCTAACC--AGCGCCTTA-ACCAAAC-CAATGATAT-AATCTTAA [2544]

Golden\_Mole GAAATAAGGCCTACTTCACCGA--AGAGCCTTA-ACAAAAAATTATGAAAT-AATCTTAA [2548]

[ 2770 2780 2790 2800 2810 2820]

[ . . . . . .]

Opossum TTAAACCATTTAAAC-TTTATCCA----------CTCTAGATA-AGAGCCCCCCAGAAAA [2604]

Kangaroo TATCCTAATTCAATC-ACTTCCC-----------ACTCTAGAAAAGAGAT-CCCAGAAAA [2600]

Hedgehog TCTAGACTGCTATAACTTAACACTATAGTTTATAAGCCAAAATAAGGGCTT--------- [2596]

Mole TCTA-------GTAATTTA--TAACCACGCAAGC-CCAAGAAA-AGGGCTTCCCAGAGGA [2612]

Sloth TCTAG--------TAAATCATCTAACA---ACCAACCCAAAACCAGGGTTT--------- [2615]

Pangolin TTTA-------CTTGGTTTACAACAAAT---TTTATCCTAGACACAGGACT--------- [2577]

Rat ATA---------AAGTATATATGTACAATAAATAACCTTAGACCCAAGTT-CCCTGAGAA [2595]

Capybara TTC----------TATCATTATCCTAA--ATTCACCCCTAAAACAGGGGTT--------- [2586]

Rabbit TC----------TAGTACACTTACCCAACATAGAGCCCTAGACCAGAGCT---------- [2601]

Round\_Eared\_Bat TCT--------GATATGCTGTAAACATA---TAACCCCTAGACAAGGGCT---------- [2614]

Flying\_Fox TCT--------GATAGCAACAGCACAAC---TCAACCCGAAAACAGGGTTA--------- [2605]

Aardvark CCC------------AGAAATTAATACAATAGTTATCCTAGAACAGGATAT--------A [2602]

Elephant\_Shrew TTA------------ATAAACACAAAACACTATAGCCCAAGACCAGGGCAC--------- [2581]

Hyrax CCC------------CTACAAGCAGGACAATTAAGTCCGAGACAAGGGCTT--------- [2588]

Dugong TAT------------AAACAAGTTGAYTACCCCCGCCCAAGACCAGGGCCT--------- [2591]

Elephant TCT------------AGATAAGCTAAACCACCCAATCCAAGAACAGGATTT--------- [2595]

Pig CCTA-------ATTAACTCATAATAAAT---CCAGCCCTAGAACAGGGCACCCAGGAGGA [2606]

Cow -CTG-------ACAACACAA---AACC-----CTGCCCTAGAACAGGGCTTCCCAGAGAA [2601]

Hippo CTTA-------ATTAAATAGTATAAATA-TACCAGCCCTAGACCAGGGCAC--------- [2601]

Whale CTTA-------ATAATTAAGCGCAAACA-AACCTGCCCAAGACCAGGGCCT--------- [2616]

Horse TCTA-------ACTAATTTATAACTT---CTACCGCCCTAGAACAGGGCTC-CCGGAGAA [2631]

Rhino TCTA-------ATTAATTTATACACA---ACATTGCCCTAGACCAGGGCCA-CCGGAGAA [2622]

Cat TCTA-------GACAGTTTATCCAAAC--ACACTACCCGAGAGCTCGGGTT--------- [2601]

Dog TCTA-------ACCAGTTTATCTCCTC--ATAA-GCCCGAGAAAAGGGGCT-CCAGAGAA [2609]

Human CTTAG----------TATTATACCCAC--ACCCA-CCCAAGAACAGGGTTTCCCGGAGAA [2591]

Galago TCTAG--------TACCTTCCCTACACC-ACCCTGCCCTAGAACAGGGTTC--------- [2618]

Flying\_Lemur CCCAG--------CCCACTTTCCCCCC--CCCCGGCCCAAGAACAGGGCTT--------- [2608]

Tree\_Shrew TCTAG--------TAAGTTATCACAA---ACCCTGCCCAAGAGCAGGGCTT--------- [2581]

Madagascar\_Hedgehog TTT------------ACCTATATC---CATTTCTGCTCTAGATAAGAGCTT--------- [2580]

Golden\_Mole TTC------------CAAAAAATAA--TAATATAACCCTAGAACAGGGCTT--------- [2585]

[ 2830 2840 2850 2860 2870 2880]

[ . . . . . .]

Opossum CCTAATGGGCATGCAAGAAGTCATTGAACAAGCAATCAAGAGTGGGGAGATCCTGGATAT [2664]

Kangaroo CCTAATGGGGATGCAAGAAGCAATTAAACAAGCAATCAAGAGTGGAGAGATCTTGGATAT [2660]

Hedgehog ------------------------------------------------------------ [2596]

Mole CCTGGTGGGGATGCAGGAAGCCATTGAGCAGGTCATCAAGAATCCTGAGACCCTCAGTAT [2672]

Sloth ------------------------------------------------------------ [2615]

Pangolin ------------------------------------------------------------ [2577]

Rat CCTGATGGGAATGCAAGCAGCCATTGAGCAGGCGATGAAGAGTCACGAGATTCTGGGCAT [2655]

Capybara -------------------------------------------------ATCCTGGGCAT [2597]

Rabbit ------------------------------------------------------------ [2601]

Round\_Eared\_Bat ------------------------------------------------------------ [2614]

Flying\_Fox ------------------------------------------------------------ [2605]

Aardvark CCTGATGGGGATGCAAGATGCCATCGAACAGGCTATCCGGAGCCATGAGATCCTGGGTAT [2662]

Elephant\_Shrew ------------------------------------------------------------ [2581]

Hyrax ------------------------------------------------------------ [2588]

Dugong ------------------------------------------------------------ [2591]

Elephant ------------------------------------------------------------ [2595]

Pig TCTGATGGGGATGCAGGAAGCCATCGAGCAGGCCACCAAGAGTCCTGAGATCTTAGCCAT [2666]

Cow CCTGATGGGGATGCAGGGAGCCATCGAGCAGGCCATCAAAAGTCAGGAGATTCTGTCTAT [2661]

Hippo ------------------------------------------------------------ [2601]

Whale ------------------------------------------------------------ [2616]

Horse CCTGATGGGGATGCAGGAAGCCATTGAGCAGGCCATCAAGAGCCAAGAGATCCTGGCCAT [2691]

Rhino CCTGATGGGGATGCAAGAAGCCATCGAGCAGGCTTTCAAGAGACATCAGATCCTAGCCAT [2682]

Cat -----------------------------------TCAAGAGTCGTGAGATCCTCGCCAT [2626]

Dog CCTGATGGGGATGCAGGAAGCCATCGAGCAGGCCATCAAGAGCCGTGAGATCCTAGCCGT [2669]

Human CCTGCTGGGCATGCAGGAAGCCATCCAGCAGGCCATCAAGAGCCATGAGATTCTGAGCAT [2651]

Galago ---------------------------------CATCAAGAGCCGTGAGATTCTGGGCAT [2645]

Flying\_Lemur ---------------------------------------AAGTCGTGAGATTCTGGGCAT [2629]

Tree\_Shrew ------------------------------------------------------------ [2581]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 2890 2900 2910 2920 2930 2940]

[ . . . . . .]

Opossum CTCTGATCCCCAAATGCTGGCCAGTGTCCTGACAGCAGGTGTGCAGGGTGCCCTCAATGA [2724]

Kangaroo CTCCGATCCCCAAATGCTGGCCAGCGTCCTGACGGCAGGTGTTCAGGGCTCTCTCAATGA [2720]

Hedgehog ------------------------------------------------------------ [2596]

Mole TTCAGACCCACAGACTCTGGCCCAGGTTCTGACTACCGGGGTACAGAGTTCCCTGAACGA [2732]

Sloth ------------------------------------------------------------ [2615]

Pangolin ------------------------------------------------------------ [2577]

Rat CTCAGACCCTCAGACGCTGGCCCAAGTGCTGACAGCTGGAGTCCAGAGTTCCTTGAGTGA [2715]

Capybara CTCTGACCCTCAGACACTGGCCCGTGTGCTGACAGACGGGGTACAGAGCTACTTGAATGA [2657]

Rabbit ------------------------------------------------------------ [2601]

Round\_Eared\_Bat -------------------------------------GGGGTGCAGAGCTCCTTGAATGA [2637]

Flying\_Fox -------------------------------------GGGGTACAGAGTTCTTTGAATGA [2628]

Aardvark CTCAGACCCCCAGACACTGGCTGATGTGCTGACAGCTGGAGTGCAGAGCTCCCTGAATGA [2722]

Elephant\_Shrew ------------------------------------------------------------ [2581]

Hyrax ------------------------------------------------------------ [2588]

Dugong ------------------------------------------------------------ [2591]

Elephant ------------------------------------------------------------ [2595]

Pig CACCGACCCTCAGACTCTGGCTCATGTGTTGACAGCTGGGGTGCAGAACTCCTTGAACGA [2726]

Cow CTCAGACCCTCAGACTCTGGCCCATGTGTTGACAGCTGGGGTGCAGAGCTCCTTGAATGA [2721]

Hippo ------------------------------------------------------------ [2601]

Whale ------------------------------------------------------------ [2616]

Horse CTCAGACCCACAGACACTGGCCCAAGTGCTGACAGCCGGGGTGCAAAACTCCCTGAACGA [2751]

Rhino CTCTGACCCGCAGACGCTGGCCCATGTGCTTACGGCTGGGGTGCAAAACTCCTTGAACGA [2742]

Cat CTCGGACCCTCAGACTCTGGCCCATGTGCTGACGACTGGGGTGCAGAGCTCCTTGAACGA [2686]

Dog CTCGGACCCCCAGACTCTGGCCCACGTACTGACCACCGGGGTGCAGAGCTCCTTGAACGA [2729]

Human CTCAGACCCGCAGACGCTGGCCAGTGTGCTGACAGCCGGGGTGCAGAGCTCCCTGAACGA [2711]

Galago CTCGGACCCTCAGACACTGGCCCAGGTGCTGACAGCTGGAGTGCAGAGCTCCCTAAATGA [2705]

Flying\_Lemur CTCAGACCCTCAAACGCTGGCCCATGTGCTGACAGTTGGGGTGCAGAGCTCCTTGAATGA [2689]

Tree\_Shrew ------------------GGCCCACGTGCTGACGGCCGGGGTGCAGAGCTCCCTGAACGA [2623]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 2950 2960 2970 2980 2990 3000]

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Opossum CCCACGGCTAGTGATCTCCTTTGAGCCCAGCATTCCTGAGACTCCCCAGCATGTCCC--- [2781]

Kangaroo CCCACGGCTGGTGATCTCTTATGAGCCCAGCACCCCCGAGCCTCCCCAGCAAGGCCC--- [2777]

Hedgehog ------------------------------------TGAGGTTCCCCAGCCAGCCCC--- [2617]

Mole CCCTCACCTGGTCATCTCCTATGATCCCAGTGCCCTCGAGATTCCACAACCAGCCCC--- [2789]

Sloth ------------------------------------------------------------ [2615]

Pangolin --------------------------------CCCTTACAGCTCCCTGGAAAGTCCC--- [2602]

Rat CCCACGACTCTTCATCTCTTACGAGCCCAGTACCCTCGAGGCTCCCCAGCAAGCACC--- [2772]

Capybara CCCACGCCTGGTCATTTCCTATGAGCCCAGCACCGTGGAGGAGCTGCGGCAAGCCCC--- [2714]

Rabbit -----------------------------------------------CGGCAGCCCC--- [2611]

Round\_Eared\_Bat CCCTCGTCTGGTCATCTCCTATGAGCCCAGTGCCCTCACAGCTCCTCAGAAAATCAC--- [2694]

Flying\_Fox CCCTCGCCTGGTCATCTCCTATGAGCCCAGTGCCCTCATGGCTCCCCAGCAGGCGCC--- [2685]

Aardvark CCCTCGCTTGCTCATCTCCTATGAGCCCAGTACCCTAGAGATTCCACAACTAGCCCC--- [2779]

Elephant\_Shrew ------------------------------------------------------------ [2581]

Hyrax ----------------------------------ATAGAGGCTCTGCAGCCAGCCCC--- [2611]

Dugong ---TCGCCTGGTCATCTCCTATGAGACCAGCACCCTAGAGCCTCTCCAGGCGGCCCC--- [2645]

Elephant ---------------------------------CCTAGAGGCTCTGCAGCCAGCCTC--- [2619]

Pig CCCTCGCCTGATCATCTCCTATGAGCCCAGCACCCTCGAGGTTACCCCGAAAGCCCC--- [2783]

Cow CCCTCGCCTGGTCATCTCCTATGAGCCCAGCACCCTCGAGGCCCCTCCGCGAGCTCC--- [2778]

Hippo --------------------------------GCCTCGAGGCTCCCCGACAAGCCCC--- [2626]

Whale -------------------------------------GAGGCTCCCCGGCAAGCCCC--- [2636]

Horse CCCTCGGCTGGTCATCTCCTATGAGCCCAGCACGCTCGAGGCTCCCAAGAAAGCCCC--- [2808]

Rhino CCCCCGCCTGGTTATCTCCTACGAGCCCAGCACCCTCGAGGCTCCCCGGCGAGCCTC--- [2799]

Cat CCCTCGCCTGGTCATTTCATACGAGCCCAGCACCCTCGAGGCTCCCCGGCAAGCCCC--- [2743]

Dog CCCTCGCCTGGTCATCTCGTACGAGCCCAGCACCCTCGAGACTCCCCGGCAAGTCCC--- [2786]

Human TCCTCGCCTGGTCATCTCCTATGAGCCCAGCACCCCCGAGCCTCCCCCACAAGTCCC--- [2768]

Galago CCCTCGGCTGGTCATCTCCTATGAGCCCAGCACCCTCGAGGCTCCCCGGCAGGCCCC--- [2762]

Flying\_Lemur CCCTCGCCTGGTCATCTCCTATGAACCCAGCACCCTTGAGGCTCCCCAGCAAGCCCC--- [2746]

Tree\_Shrew CCCTCGCCTGGTCATCTCCTATGAGCCCAGTGCTCGTGAGACCCCCCAGCAAGCCCCCCT [2683]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3010 3020 3030 3040 3050 3060]

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Opossum AAAATTTGCCAACGTCACTCAGGAGGAACTGCTCACCCTGCTCCAGCAAATGATCAAGTA [2841]

Kangaroo CAAATTCACCGGCCTCACTCAGGAGGAACTACTCACCTTGCTCCAGCAAATGATCAAGTA [2837]

Hedgehog AGCACTCCGCAATCTCACACAAGAGCAACTGCTTGTCCAGGTGCAGAAGAGCATCCACCA [2677]

Mole AGCACCTAGCAACCTCACACAAGAGGAACTGCTTAGTGAGCTGCAGAGGGCCATCCGCTA [2849]

Sloth ------CAACAACCTCACGCAGGACAAACTGCTCACCAGGCTGCAGAAGGACATCCACTC [2669]

Pangolin AGAGCTCACCGATCTGACACAAGAGGAACTTTTGGCCCAGCTGCAGAAGGGCATCCACCA [2662]

Rat AGTGCTCACCAACCTCACCCGAGAAGAACTGCTGGCCCAGATACAGAGGAACATCCGCCA [2832]

Capybara GGCACCCACCAACCTCAGCCAGGAGGAGCTGCTGGCTGGGCTGCAGAAGAGCATCCGCCA [2774]

Rabbit AGCACCCAGCAACCTTACCCAGGAGGAGCTGCTGGCTTGGCTGCAGAAGAGTATCCAACA [2671]

Round\_Eared\_Bat AGCACTCACCAACCTCACACAAGAGGAACTGCTTGCCCAGTTGCAAAAGGGCATCCACTA [2754]

Flying\_Fox AGCACTCACCCACCTCACACAAGAAGAACTGCTTGCTCAACTGCAGAAAGGCATCCGCCA [2745]

Aardvark AACACCTGCCAACCTCACACAAGAGGAACTGCTTAGTGAGCTGCAGAGGAGCATGAGCTA [2839]

Elephant\_Shrew ----CCCACCAACCTTACACAGGAGGAACTGCTCAGTGAGCTGGAGAGAAGCATGAGCTA [2637]

Hyrax AGCACCAACCAACCTCACACAAGAGGAACTGCTCAGTGAACTGCAGACAAGCATGAGCTA [2671]

Dugong AGCACCCACCAACCTCACACAAGAGGAGCTGCTCAGTGAGCTGCAGACCAGCATGAGCTA [2705]

Elephant AGCACCCACCAACCTCACGGAAGAAGAAATGCTCAGTGAGCTGCAGACAAGCATGAGCTA [2679]

Pig GGCACTCAGGAACCTCACACTAGAGGAACTCATTGAGGGGCTGCACAATAGTCTCCGCCA [2843]

Cow AGCAGTCACGAACCTCACACTAGAGGAAATCATCGCAGGGCTGCAGGATGGCCTTCGCCA [2838]

Hippo AGCACTCAAGAACCTCACGCTAGAGGAACTCATTGCAGGTCTGCAGAACGGCCTCCACCA [2686]

Whale AGCACTCATGAACCTCACGCTAGAGGAACTCATTGCAGGGTTGCAGAACGGCCTCCGCCA [2696]

Horse GGCACTCACCAACCTCACACAAGAGGAACTGCTTGCTCGGCTGCAGGAGGGCATCCGCTA [2868]

Rhino AGCACTCACCGACCTCACACCAGAGGAACTGCTTGCCCGGCTGCAGAAGGACATCCGCCA [2859]

Cat AGCACTCACCAACCTCACAAAAGAGGAAATGCTTGCCCGGCTGCAGAAGGGCATCCGCCA [2803]

Dog GGCCCTCACCAACCTCACCCGGGAGGAACTGCTTGCCCGCCTGCAGAAGGGCATCCGCCA [2846]

Human AGCACTCACCAGCCTCTCAGAAGAGGAACTGCTTGCCTGGCTGCAAAGGGGCCTCCGCCA [2828]

Galago AACACTCACCAACCTCACACAGGAGGAACTGCTTGCCTGGCTGCAGAGGGGCCTCCGCTA [2822]

Flying\_Lemur GGCATTCACCAACCTCACGCAAGAGGAGCTGCTCGCCTGGCTGCAGAAAGGCATCCACCA [2806]

Tree\_Shrew AGCATTTGACAGCCTCACCCAGGAGGAGCTGCTCACCCATCTGCAGGAGGGCATCCGCCA [2743]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3070 3080 3090 3100 3110 3120]

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Opossum CCAGGTACTGGAGGGCAATGTGGGTTACCTAAGAGTTGACTACATCCCTGGCCAGGAGGT [2901]

Kangaroo CCAGGTACTGGAGGGTAATGTGGGTTACCTGAGAGTGGACTACATCCCTGGCCAGGAGGT [2897]

Hedgehog TGAGATTCTAGAAGGCAACGTGGGCTACTTACGCATGGATGACATCCCAGGTCAGGAGGT [2737]

Mole CCAGGTTCTGGCGGCCAATGTGGGCTACCTGGGGAGGGATAACCTCCCCGGTCAGGAGGT [2909]

Sloth TGAGGTTCTGGAAGGCAATGTGGCCTACCTGCGTGTGGACGACATCCTGGGCCAGGAGCA [2729]

Pangolin TGAGGTTCTGGAAGGCAATGTGGGCTACCTGCGTGTGGACAACATCCCAGGCCAGGAGGT [2722]

Rat TGAGGTTCTTGAGGGCAACGTGGGCTACCTACGAGTGGACGACCTCCCTGGCCAAGAGGT [2892]

Capybara TGAGGTCCTGGAGGGCAACGTGGGCTACCTGCGCGTGGACGACCTCCCCAGCCAGGAGGT [2834]

Rabbit TGAGATCCTGGAACACAATGTGGGCTACCTGCGGGTGGATGACCTCCCGGGCCAGGAGGT [2731]

Round\_Eared\_Bat CGACATCCTGGAGAGCAATGTGGGCTACCTGCGGGTGGATGACATACCGAGCCAGGAGGT [2814]

Flying\_Fox CGATGTTCTGGAGGGCAATGTGGGCTACCTGCGAGTGGACGACATCCCGAATCAGGAAGT [2805]

Aardvark CCAGGTTCTGGAGGGCAATGTGGGCTACCTACGAGTAGACAGCATCCCAGGCCAGGAAGT [2899]

Elephant\_Shrew CAGGATTCTGGATGGTAATGTGGGCTACTTGCAGATAGACAACATCCCAGGCCAGGAGGT [2697]

Hyrax CAAGGTTCTGGAGGGCAACGTGGGTTACCTGCGGGTAGACAACATTCCGGGTCAAGATGT [2731]

Dugong CAAGGTTCTGGATGGCAATGTGGGCTACCTGCGGGTAGACAACATCCCTGGCCAGGAGGT [2765]

Elephant CAAGGTTCTGGAGGGCAACGTGGGCTACCTGCGGGTAGACAACATCCCAGGCCAGGAGGT [2739]

Pig TGAGGTTCTGGAAGGCAATGTGGGCTACCTGCGGGTGGACGACATCCCAGGCCAGGAGGT [2903]

Cow TGAGATTCTGGAAGGCAATGTGGGCTACCTGCGGGTGGACGACATCCCGGGCCAGGAGGT [2898]

Hippo TGAGGTTCTGGAAGGCAACGTGGGCTACCTGCGGGTGGACGACATCCCAGGCCAGGAGGT [2746]

Whale TGAGGTTCTGGAAGGCAATGTGGGCTACCTGCGGGTGGACGACATCCCGGGCCAGGAGGT [2756]

Horse TGACATTCTGGAGGGCGACGTGGGCTACTTGCGAGTGGACAACATCCCGGGCCAGGAGGT [2928]

Rhino TGACATTCTGGAGGGCAATGTGGGCTACCTGCGGGTGGACGACATCCCGGGCCAGGAGGT [2919]

Cat CGAGGTTCTGGAGGGCAATGTGGGCTACCTGCGTGTGGACGACATCCCAAGCCAGGAGGT [2863]

Dog CGAGGTGCTGGAGGGCAACGTGGGCTACCTGCGCGTGGATGACATCCCCGGCCAGGAGGT [2906]

Human TGAGGTTCTGGAGGGTAATGTGGGCTACCTGCGGGTGGACAGCGTCCCGGGCCAGGAGGT [2888]

Galago TGAGGTTCTGGAGGGCAATGTGGGCTACTTGCGGGTAGACGACATCCCTGGCCAAGAGGT [2882]

Flying\_Lemur TGAGGTCCTGGAGGGCAACGTGGGCTACCTTCGGGTAGATGATCTCCCCGGCCAGGAAGT [2866]

Tree\_Shrew TGAGGTCCTGGAGGGCAATGTGGGCTACCTGCGACTGGACGACCTCCCAAACCAGGAGGT [2803]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3130 3140 3150 3160 3170 3180]

[ . . . . . .]

Opossum GGTAGAGAAAGTCGGGGAGTTCTTGGTGAATAACATCTGGAAAAAGCTCATGGGGACCTC [2961]

Kangaroo GGTAGAGAAAGTCGGGGAGTTCCTGGTGAATGATGTCTGGAAGAAGCTCATGGGGACCTC [2957]

Hedgehog GGTGAGCAAGCTGGGAGGTTTCCTGGCTGCCAGCGTCTGGACAAAGCTCATGGGTACCTC [2797]

Mole GGTGACCATACTGGGGGCTCTCCTGGTGGCCAATGTCTGGGGGAAGCTCATAGCCACCTC [2969]

Sloth GATGAGCCAGCTGGGGGGCATCCTAGGGGCTGAGGCCTGGAAGGAGCTGACCAAGACCTC [2789]

Pangolin GCTGAGCGAGCTGGGGGACTTCCTGGTGGCCCACATCTGGCAGAAGCTCATGGGCACCTC [2782]

Rat ACTGAGCGAGCTGGGGGAGTTCTTAGTGAGCCATGTGTGGAGGCAGCTCATGAGCACCTC [2952]

Capybara GCTAAGCAGGCTGGGTACCCTCCTGATGACCAATGTGTGGAAGCAGCTCATGGGCACCTC [2894]

Rabbit GCTGAGCAAGCTGGGCGGGTTCCTGGTGGCCCATGTCTGGGGGCAACTCATGGGCACCTC [2791]

Round\_Eared\_Bat GGTGAGCAAACTGGGGGACTTCCTGGTGGCCAATATCTGGAGGAAGCTCCTAGGCACCTC [2874]

Flying\_Fox AGTGAGCAAGCTGGGGGGCTTCTTAGTGGAAAATATCTGGAGAAAGCTTATGGGCACCTC [2865]

Aardvark ACTGAGCCAGCTGGAGGACTTCCTGGTACCCCACGTGTGGAGGCAGCTCATGGGCTCCTC [2959]

Elephant\_Shrew ACTGAGCCGACTAGGGGCCTTCCTGGTGGCCCATGTCTGGAGACAGCTCATGGGCACCTC [2757]

Hyrax GCTGAACCAGCTGGGGGGCTTCCTGGTGACTCATGTGTGGAAGCAGCTCATGGGCTCCTC [2791]

Dugong GCTGAGCCGTCTGGGGGGCTTCCTGGTGACTCACATCTGGAAGCAGCTCATGGGCTCCTC [2825]

Elephant GCTGAACCAGCTGGGGGCCTTCCTGGTGACTCACGTCTGGAAGCAGCTTATGGGCTCCTC [2799]

Pig GATGAACAAGCTGGGGAGCTTCCTGGTAGTCAACGTCTGGGAAAAGCTAATGGGCACCTC [2963]

Cow GATGAGCAAGCTGAGGAGCTTCCTGGTGGCCAACGTCTGGAGGAAGCTCGTGAACACGTC [2958]

Hippo AATGAGCAAGCTGAGGAGCTTCCTGGTGGCCAACGTCTGGAGGAAGCTCATGGGCACCTC [2806]

Whale GATGAGCAAGCTGAGGAGCTTCCTGGTGGCCAACGTCTGGAGGAAGCTCATGGGCACCTC [2816]

Horse GGTGAGCAAGCTGGGGGGCTTCCTGGTGGACAATGTCTGGAGGAAGCTCATGGGCACCTC [2988]

Rhino CGTGAGCAAGCTGGGGGACTTCCTGGTGGCCAACATCTGGAGGAAGCTCCTGGACACCTC [2979]

Cat GGTGAGCAAGCTGGGGGGCTTCCTGGTGGCCAGCGTCTGGAGGAAGCTCATGGGCACCTC [2923]

Dog GGTGGACAAGCTGGGCAGCTTCCTTGTGGCCAGCATCTGGAGGAAGCTCATGGGCACCTC [2966]

Human GCTGAGCATGATGGGGGAGTTCCTGGTGGCCCACGTGTGGGGGAATCTCATGGGCACCTC [2948]

Galago GCTGAGCAAGCTGGGGGCTTTCCTGGTGGCCCACGTCTGGGGGAAGCTCATGGGCACCTC [2942]

Flying\_Lemur GCTAAGCAAGCTGGGGGAGTTCCTGGTAGCCCACATCTGGAGCAAGCTCATAGACACCTC [2926]

Tree\_Shrew GCTGAACCAGCTGGGGGCGTTCCTGGTGACCCACGTCTGGATGAAGCTCATGGGCACCTC [2863]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3190 3200 3210 3220 3230 3240]

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Opossum CGCTCTGGTGTTGGATCTCCAGCACAGCTCAGGGGGTGAAGTTTCAGGAATTCCCTTTGT [3021]

Kangaroo TTCTCTGGTGTTGGATCTCCAGCACAGCACGGGAGGCGAAGTTTCAGGAATCCCGTTTGT [3017]

Hedgehog TGCCCTGGTGCTGGACCTCCGCCACTGCACTGGGGGCCACGTTTCTGGCGTCCCGTATCT [2857]

Mole TCCCTTGGTGCTGGACCTCCGACACTGCACTGGGGGCCATGTCTCTGGGATCCCCTACGT [3029]

Sloth GGCCTTGGTGCTGGATCTCCGGCACTGTACTGGGGGGCACGTCTCGGGCATCCCCTACAT [2849]

Pangolin TGCCTTGGTGCTGGACCTCCGGCACTGCACTACGGGCCATGTGTCTGGCATCCCCTATGT [2842]

Rat CTCCTTGGTGCTAGATCTCCGGCACTGCTCTGGCGGCCACTTCTCTGGGATCCCTTATGT [3012]

Capybara CGCCCTGGTGCTGGATCTCCGGCAGTGCCCCAGCGGCCACGTCTCTGGCATCCCCTACAT [2954]

Rabbit CGCCCTGGTGCTGGATCTGCGGCACTGCACGGGGGGCCACGTCTCTGGCATCCCCTACGT [2851]

Round\_Eared\_Bat CGCCTTGGTGCTAGACCTCCGACACTGCACTGGAGGCCATGTTTCTGGCATCCCCTATGT [2934]

Flying\_Fox TGCCTTGGTGCTAGACCTCCGACACTGCACTGGGGGCCACGTTTCCGGCATCCCCTATGT [2925]

Aardvark TGCATTGGTGTTGGACCTGCGGTACTGCACAGGAGGCCATGTCTCCAGCATCCCTTACTT [3019]

Elephant\_Shrew TGCTTTGGTGTTGGACCTGCGGCAGTGCACAGGAGGCCATGTTTCCAGCATCCCTTACCT [2817]

Hyrax TGCCTTAGTGCTGGACCTAAGGCACTGCACGGGGGGCCATGTCTCCAGTATCCCTTACCT [2851]

Dugong TGCCTTAGTCCTGGACCTGCGGCACTGTATGGGTGGCCATGTCTCCAGCATCCCTTACAT [2885]

Elephant TGCCTTAGTGCTGGACCTGCGACACTGCACAGGGGGCCATGTCTCCAGCATCCCTTACCT [2859]

Pig TGCCTTGGTGCTAGACCTCCGGCACTGCACCAGGGGCCACGTTTCTGGCATCCCCTATGT [3023]

Cow CGCCTTGGTGCTGGACCTCCGGCACTGCACTGGGGGACACGTGTCTGGCATCCCCTATGT [3018]

Hippo TGCATTGGTGCTGGACCTCCGCCACTGCACTGGGGGACGCATTTCTGGCATCCCCTATGT [2866]

Whale TGCCTTGGTGCTGGACCTCCGTCACTGCACTGGGGGCCAAATTTCTGGCATACCCTACGT [2876]

Horse TGCCTTGGTGCTGGACCTCCGGCACTGCACTGGGGGCCACGTTTCCGGCATCCCCTATAT [3048]

Rhino TGCCTTGGTGCTGGACCTCCGGCACTGCACTGGAGGCCATGTTTCCGGCATCCCCTACAT [3039]

Cat TGCCTTGGTGCTGGACCTCCGGCACTGCACCGGGGGCCACGTTTCCGGCATCCCCTATGT [2983]

Dog TGCCCTGGTGCTGGACCTCCGGCACTGCACGGGCGGCCACATTTCTGGCATCCCCTACGT [3026]

Human CGCCTTAGTGCTGGATCTCCGGCACTGCACAGGAGGCCAGGTCTCTGGCATTCCCTACAT [3008]

Galago CGCCCTGGTGCTGGATCTGCGGCACTGTACCGGGGGCCAGGTATCCGGCATTCCCTACGT [3002]

Flying\_Lemur CGCCTTGGTGCTAGATCTCCGCCACTGCACTGGGGGCCAGGTCTCCGGCATTCCCTACAT [2986]

Tree\_Shrew GGCCTTGGTGCTGGACCTCCGACACTGCACTAGGGGCCACGTCTCCGGCATCCCCTACGT [2923]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3250 3260 3270 3280 3290 3300]

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Opossum CATTTCCTACCTACACCAGGGGGATAT-CGTGCTGCACATAGACACAGTTTATGACCGGC [3080]

Kangaroo CATTTCCTACCTACACCAGGGGGATAA-TCTGCTGCATGTAGACACAGTTTATGACCGGC [3076]

Hedgehog CGTCTCTTACCTGCACTCAGGGAACAC-GGTCCTGCATGTGGACACCATCTATGACAGAC [2916]

Mole CATCTCCTACCTGTACCCAGGAAACAC-GGTCCTGCATATGGACACCATCTATGACCGCC [3088]

Sloth CGTCTCTTACCTGCACCCTGGAAACTC-AGTCCTGCACGTGGACACCATCTACAACCGTC [2908]

Pangolin CATCTCCTACCTGCACCCAGGGAACAC-AGTCCTGCATGTGGATACCATCTACAACCGCC [2901]

Rat CATCTCTTACTTGCACCCTGGGAACAC-GGTCATGCACGTGGACACCGTCTACGATCGGC [3071]

Capybara A-TCTCCTACTTGCACCCCGGGAATACAAGTCCTGCACGTGGACACCATCTACAATCGCC [3013]

Rabbit CATCTCCTACCTGCACCCGGGGAACAC-TGTCGTGCACGTGGACACCATCTATGACCGTC [2910]

Round\_Eared\_Bat CATCTCCTACTTGCACCCGGGAAACAC-GGTCCTGCATGTGGACACCATCTATGACCGCC [2993]

Flying\_Fox CATCTCCTACCTGCACCCAGGAAACAC-GATTCTGCATGTGGATACCATCTACGACCGCC [2984]

Aardvark CATCTCCTACTTGCACCCAGGAGGCAC-AGTGCTGCATGTGGATACCATTTACAACCGCC [3078]

Elephant\_Shrew TATTTCCTACCTGCACCCAGCGGGCAC-GGTCCTGCACGTTGACACCATTTACAACCGTC [2876]

Hyrax CATCTCCTACCTGCATCCAGGGAGCAC-TGTGCTGCACGTGGACACCATTTACAACCGCC [2910]

Dugong CATCTCCTACCTACACCCCGGAGGAGC-AGTGCTGCATGTGGACACCATTTACAACCGCC [2944]

Elephant CATTTCCTACCTGCACCCGGGCGGCAC-CGTGCTGCACGTGGACACCATTTACAACCGCC [2918]

Pig CATCTCCTACCTGCACCCAGGGAACAC-GGTCCTGCACGTGGACACCATCTATGACCGTC [3082]

Cow CATCTCCTACCTGCACCCAGGGAGCAC-AGTCTCGCACGTGGACACCGTCTACGACCGCC [3077]

Hippo CATCTCCTACCTGCACCCAGGGAACAC-GGTCCTGCATGTGGACACCATCTATGACCGCC [2925]

Whale CATCTCCTACCTGCACCCAGGGAACAC-AGTCCTGCACGTGGATACCATCTATGATCGCC [2935]

Horse CATCTCCTACCTGCACCCAGGAAACAC-GGTCCTGCACGTGGACACCATCTACGACCGCC [3107]

Rhino CATCTCCTACCTGCACCCAGGAAACAC-GGTCCTGCACGTGGACACCATCTACGACCGCC [3098]

Cat CATCTCCTACCTGCACCCAGGGAACAC-GGTCCTGCACGTGGATACCATCTACGACCGTC [3042]

Dog CGTCTCCTACCTGCACCCAGGGAACAC-AGTTCTGCACGTGGATACCATCTACGACCGCC [3085]

Human CATCTCCTACCTGCACCCAGGGAACAC-CATCCTGCACGTGGACACTATCTACAACCGCC [3067]

Galago CATCTCCTACCTGCATCCGGGGAACAC-GATCCTACACGTGGACACCATCTATGACCGCC [3061]

Flying\_Lemur CATCTCCTACCTGCACCCGGGGAACAC-GGCCGTGCACGTGGACACCATCTATGACCGCC [3045]

Tree\_Shrew CATCTCCTACCTGCACCCGGGGAGCAC-GGTCCTGCATGTGGACACCATCTACAACCGCC [2982]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3310 3320 3330 3340 3350 3360]

[ . . . . . .]

Opossum CATCCAATACCACCACAGAGATCTGGACCCTGCCCCAGGTGCTGGGTGAGAGGTACGGTG [3140]

Kangaroo CATCAAACACCACCACAGAGATCTGGACCCTGCCCCAGGTGTTGGGTGAGAGGTACGGTG [3136]

Hedgehog CCTCCAACACCACCACTGAGATCTGGACTTTGCCCCAGATCCCAGGAGAGCGGTACAGTG [2976]

Mole CCTCCAATATCACCACTGAGCTCTGGACCCTGCCCCAGCTCCAGGGAGAGCGGTACGGTG [3148]

Sloth CCTCCAACACGACCACTGAGATCTGGACCTTGCCCCAAGACACCAGAGAGAGGTACGGCG [2968]

Pangolin CCTCCAACACGACCACTGAGCTCTGGACCCTGCCCCAGGTTCTGGGAGAGGGGTACAGTC [2961]

Rat CCTCCAACACCACCACAGAGATCTGGACCTTGCCCGAGGTCCTCGGGGAGAGATACAGTG [3131]

Capybara CCTTCAACACCACCACGGAGATCTGGACCTTGCCGCAGGTCCTGGGAGAGCGATACAGCA [3073]

Rabbit CTTCCAACACAACCACGGAGCTCTGGACCCTGCCCCAGGTGCTGGGGGAGAGGTACAGCG [2970]

Round\_Eared\_Bat CCTCCAATACGACCACTGAGATCTGGACCCTGCCTCAGGTCCTGGGAGAGAGATACAGTG [3053]

Flying\_Fox CCTCCAATACGACCACTGAGATCTGGACCTTGCCCCAGGTCTTGGGGGAGAGGTACAGTG [3044]

Aardvark CCTCCAACACAACTACTGAACTCTGGACCTTACCACAGGTGCATGGGGAAAGGTACAGTG [3138]

Elephant\_Shrew CCTCTAACACAACCACTGAGCTCTGGACTTTGCCTCAGGTGCTTGGGGAGAGATACAGTG [2936]

Hyrax CCTCCAATACAACTACTGAGCTCTGGACCTTGCCCCAGGTGCTGGGGGAGAGATACAGTG [2970]

Dugong CCTCCAATACGACTACTGGGGTCTGGACCTTGCCCCAAGTGCTGGGAGAAAGGTACAGTC [3004]

Elephant CCTCCAATACGACTACGGAGCTCTGGACCTTGCCCCAGGTGCTGGGGGAGAGGTATAGCG [2978]

Pig CCTCCAATACGACCACTGAGATCTGGACCCTGCCCGAAGTCCTGGGAGACAGGTACAGTG [3142]

Cow CCTCCAACACAACCACTGAGATCTGGACCCTGCCTGAAGCCCTGGGAGAGAAGTACAGTG [3137]

Hippo CCTCCAATACGACCACTGAGATCTGGACCCTGCCTGAAGTCCTGGGAGAGAACTACAGTG [2985]

Whale CCTCTAATACCACCACTGAGATCTGGACCCTGCCCGAAGTCCTAGGAGAGAACTATGGTG [2995]

Horse CCTCCAATACGACCACTGAGATCTGGACCCTGCCCGAGGTCCTGGGAGAGAGGTACAGTG [3167]

Rhino CCTCCAATACGACCACTGAGATCTGGACCCTGCCCCAGGTCCTGGAAGACAGGTACAGTG [3158]

Cat CCTCCAATACGACCACTGAGATCTGGACCTTGCCCCAGGTGCTGGGAGAGAGGTACAGTG [3102]

Dog CCTCCAACACCACCACTGAGATCTGGACCCTGCCCCAGGTCCTGGGGGAAAGGTACAGCG [3145]

Human CCTCCAACACCACCACGGAGATCTGGACCTTGCCCCAGGTCCTGGGAGAAAGGTACGGTG [3127]

Galago CCTCCAACAAGACCACGGAGATCTGGACCTTGCCTCAGGTCCTGGGAGAGAGGTATGGTG [3121]

Flying\_Lemur CTTCCAACACAACCACAGAGATCTGGACCTTGCCCCATGTCCTGGGAGAGAGGTACAGTG [3105]

Tree\_Shrew CCTCCAACACCACCACGGAGCTCTGGACCCTGCCCCAGATCCCGGGAGAGAGGTACAGTG [3042]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3370 3380 3390 3400 3410 3420]

[ . . . . . .]

Opossum GGGAGAAGGACATGGTGGTCCTCACCAGTCACGGTACTGTTGGAGTAGCAGAGGATATAG [3200]

Kangaroo GGGAGAAGGACGTGGTGGTCCTCACCAGCCATCACACGGTCGGGGTAGCAGAGGATATTG [3196]

Hedgehog CTGACAAGGACGTGGTGGTCCTCACCAGCAGCCACACGGGGGGCGTGGCAGAGGACATTG [3036]

Mole CAGACAAGGATGTGGTGGTCCTCATCAGCGACCACACTGGGGGTGTGGCTGAGGACATTA [3208]

Sloth CCGAGAAGGATGTGGTGGTCCTGACCAGTGGCCACACAGGGGGCGTAGCCGAGGACGTTG [3028]

Pangolin CTGACAAGGATGTGGTGGTCCTCACCAGCAGCCGCACTGGGGGCGTGGCTGAGGACATCA [3021]

Rat CTGACAAGGATGTGGTGGTCCTCACCAGCGGACACACTGGGGGAGTCGCAGAGGACATTG [3191]

Capybara CCGAGAAGGATGTGGTGGTCCTTACCAGCAGCCGCACAGGGGGCGTGGCCGAGGACATTG [3133]

Rabbit CTGACAAGGATGTGGTGGTCCTCACCAGCGGCCGCACGGGGGGTGTGGCTGAGGACATCG [3030]

Round\_Eared\_Bat CTGACAAGGATGTTGTGGTCCTCACTAGTGGCCACACCGGAGGAGTGGCTGAGGACATCG [3113]

Flying\_Fox CTGACAAGGATGTGGTGGTTCTCACCAGTGGCCACACTGGAGGAGTGGCTGAGGACATAG [3104]

Aardvark CTGACAAGGATGTGGTGCTCCTCACCAGTGGCCACACCAGAGGTGTGGCTGAGGATATCA [3198]

Elephant\_Shrew CTGAGAAGGATGTGGTGGTCCTCACCAGTGGTCAAACCCGGGGTGTGGCTGAGGACATTG [2996]

Hyrax CTGACAAGGATGTGGTGGTCCTCACCATGGGCCACACCAGGGGTGTGGCCGAGGACATCG [3030]

Dugong CCAACAAGGATGTGGTGGTCCTCACCAGTGGCCACACCAGGGGCGTGGCCGAAGACATCG [3064]

Elephant CCGACAAGGATGTGGTGGTCCTCACCAGTGGCCACACCAGGGGCGTGGCCGAGGACATCG [3038]

Pig CGGATAAGGACGTGGTGGTCCTCACCAGCAGCCACACAGGGGGCGTGGCTGAGGACATCG [3202]

Cow CAGACAAGGATGTGGTGGTCCTCACCAGCAGCCGCACGGGGGGCGTGGCTGAGGACATCG [3197]

Hippo CCGATAAGGATGTGGTGGTCCTCACCAGCAGCCGCACAGGGGGCGTGGCCGAGAACATCG [3045]

Whale CCGATAAGGATGTGGTGGTCCTCACCAGTGGTCGGACCGGGGGTGTGGCTGAGGACATCG [3055]

Horse CCGACAGGGATGTGGTGGTCCTCACCAGTGGCCACACCGGGGGCGTGGCCGAGGACATTG [3227]

Rhino CCGACAGGGATGTGGTGGTCCTCACCAGTGGCCACACCGGGGGCGTGGCCGAGGACATTG [3218]

Cat CCGACAAGGATGTGGTGGTCCTCACCAGCAGCCACACTGGGGGCGTGGCTGAGGACATCA [3162]

Dog CTGACAAGGACGTGGTGGTCCTCACCAGCGGCCACACGGGCGGCGTGGCAGAGGACGTCA [3205]

Human CCGACAAGGATGTGGTGGTCCTCACCAGCAGCCAGACCAGGGGCGTGGCCGAGGACATCG [3187]

Galago CCGACAAGGACGTAGTGGTCCTGACCAGTGGCCGCACTGGGGGCGTGGCCGAGGACATCG [3181]

Flying\_Lemur CTAACAAAGATGTGGTGGTCCTCACCAGCAGCCGTACCAGGGGCGTGGCCGAGGACATTG [3165]

Tree\_Shrew CCAACAAGGACGTGGTGGTCCTCACCAGCAGCCACACTGGGGGCGTGGCCGAGGACATCG [3102]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3430 3440 3450 3460 3470 3480]

[ . . . . . .]

Opossum CCTACATCCTCAAGAAGATGCGCCGGGCCATTGTGGTGGGAGAGCAGACTCTGGGAGGGG [3260]

Kangaroo CCTACATCCTCAAGAAGATGCGCCGGGCCATTGTGGTGGGAGAGCAGACTCTGGGAGGGG [3256]

Hedgehog CTTACATCCTCAAGCAGATGCGCAGGGCCATTGTGGTGGGTGAGCGCACAGTTGGGGGTG [3096]

Mole CTTACATCCTCAAACAGATGCGCCGGGCTATTGTGGTGGGCGAGCAGACTGTGGGGGCTG [3268]

Sloth CCTACATCCTCAAGCGGATGCGCAGGGCCATCGTGGTGGCCGAACAGACCGTGGGGGGGG [3088]

Pangolin CTTACATCCTCAAACAGATGCGCAGGGCCATTGTGGTGGGTGAACGTACTGTGGGGGGTG [3081]

Rat CCTACATCCTGAAGCAGATGCGGCGCGCCATCGTGGTGGGCGAGCGGACGGAGGGTGGGG [3251]

Capybara CCTACATCCTCAAGCAGATGCCGCAGGGCATCGTGGTGGGAGAGCGCACAGAGGGGGGCG [3193]

Rabbit CCTACATCCTCAAGCAGATGCGCAGGGCCATCCTGGTGGGTGAGCAGACCGTTGGGGGCG [3090]

Round\_Eared\_Bat CTTACATCCTCAAACAGATACGCAGGGCCATCGTGGTGGGTGAGCGGACCATGGGGGGTG [3173]

Flying\_Fox CATACATTCTCAAACAGATGCGCAGGGCCATCGTGGTGGGTGAGCGGACCGTTGGGGGGG [3164]

Aardvark TCTACATCCTCAAGCAGATGGGCAGGGCCATTGTGGTTGGCGAGCGAACTGAGGGAGGTG [3258]

Elephant\_Shrew TCTACATCCTCAAGCAGATGGGCAGGGCCATAGTGGTGGGTGAACGTACTGGGGGGGTCT [3056]

Hyrax TCTACATCCTCAAGCAGATGGGCAGGGCCATTGTGGTAGGCGAGCGGACCGAGGGTGGTG [3090]

Dugong TTCACATCCTTAAGCAGATGGGCAGGGCCATAGTGGTGGGCGAGAAGACGGAGGCAGGTG [3124]

Elephant TCTACATCCTCAAGCAGATGGGCAGGGCCATCGTGGTGGGCGAGCGGACTGAGGGTGGTG [3098]

Pig CCTACATCCTCAAACAGATGCGCAGGGCCATTGTGGTCGGCGAGCGAACTGTGGGGGGTG [3262]

Cow CTTACATCCTCAAACAGATGCGCAGGGCCATCGTGGTGGGCGAGCGGACTGTTGGGGGGG [3257]

Hippo CTTACATCCTCAAACAGATGCGCAGGGCCATCGTGGTGGGCGAGAGGACGGCTGGGGGGG [3105]

Whale CTTATATCCTCAAACAAATGCGCAGGCCAATTGTGGTGGGCGAGCGGACTGTGGGGGGGG [3115]

Horse CTTACATCCTCAAACAGATGCGCAGGGCCATCGTGGTGGGTGAGCGGACCGTGGGAGGTG [3287]

Rhino CTTACATCCTCAAACAGATGCGCAGGGCCATCGTGGTGGGCGAGCGGACTGTGGGAGGTG [3278]

Cat CTTACATCCTCAAGCAGATGCGCAGGGCCATCGTGGTGGGTGAGCGGACTGTGGGGGGTG [3222]

Dog CTTACATCCTCAAGCAGATGCGCCGGGCCATTGTGGTGGGCGAGCGGACTGTCGGGGGGG [3265]

Human CGCACATCCTTAAGCAGATGCGCAGGGCCATCGTGGTGGGCGAGCGGACTGGGGGAGGGG [3247]

Galago CCTACATCCTTAAGCAGATGCGCAGGGCCATCGTGGTGGGTGAGCGGACCGTGGGGCGTG [3241]

Flying\_Lemur CCTACATCCTCAAGCAGATGCGCAGGGCCATCGTGGTGGGCGAGCGGACCGTAGGGGGTG [3225]

Tree\_Shrew CCTACATCCTCAAGCAGATGCGCAGAGCCATCGTGGTGGGCGAGCGCACCGTGGGGGGGG [3162]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3490 3500 3510 3520 3530 3540]

[ . . . . . .]

Opossum CTCTAGATCTCCGGAAGCTGCGCATTGGCCAGTCAGATTTCTTCATCACTGTGCCGGTAT [3320]

Kangaroo CCCTAGATCTCCGGAA?CTTCGTATTGGTCAGTCAGACTTTTTCATCACTGTGCCCGTGT [3316]

Hedgehog CTCTGGACCTCCAGAAGCTGAGGATCGGCCAGTCGGATTTCTTCTTCACTGTGCCAGTGT [3156]

Mole CTCTGGACCTCCAGAAACTGAGGATAGGCCAGTCTGACTTCTTCATCACTCTGCCTGTCT [3328]

Sloth CCCTGGACCTCCAGAAGCTGAGGATGGGCCAATCCAACTTCTTCCTCACTCTGCCTGTGT [3148]

Pangolin CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCCGACTTCTTCCTCACTGTGCCCGTGT [3141]

Rat CCCTGGACCTCCAGAAGCTGAGAATAGGCCAGTCCAACTTCTTCCTCACAGTGCCTGTGT [3311]

Capybara CCCTGGACCTTCAGAAGCTGAGGATCGGCCAGTCCAACTTCTTCCTCACTGTGCCTGTGT [3253]

Rabbit CCCTGGACCTGCAGAAGCTAAGGATAGGCCAGTCTGACTTCTTCCTCACCGTCCCCGTGT [3150]

Round\_Eared\_Bat CCCTGGACCTCCAGAAACTGAGGATAGGCCACTCTGATTTTTTCCTCACTGTACCTGTGT [3233]

Flying\_Fox CCTTAGACCTCCAGAAGCTGAGGATAGGCCAGTCTGACTTCTTCCTCACTGTGCCTGTGT [3224]

Aardvark CCCTGGACCTCCAGAAGCTAAGAATAGGCCACTCTGACTTCTTCCTCACTTTGCCTGTGT [3318]

Elephant\_Shrew CCCTGGACCTCCAGAAGCTAAGGATAGCCAACTCTGACTTCTTCCTCACTCTACCTGTGT [3116]

Hyrax CCCTGGACCTCCAGAAGCTGCGAATAGGTCACTCAGACTTCTTTTTCACTCTGCCTGTGT [3150]

Dugong CCCTGCACCTCCAGAAGCTGAGGATAGGTCACTCTGATTTCTTTCTCACTCTGCCTGTGT [3184]

Elephant CCCTGGACCTCCAGAAGCTGAGGATAGGCCACTCTGACTTCTTCCTCACTCTGCCTGTGT [3158]

Pig CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCCGACTTCTTTCTCACCGTGCCTGTGT [3322]

Cow CTCTGAACCTCCAGAAGCTGAGGGTAGGCCAGTCCGACTTCTTTCTCACTGTGCCTGTGT [3317]

Hippo CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCTGACTTCTTTCTCACTGTGCCTGTGT [3165]

Whale GCTTGGACCTCCAGAAGCTGCGGATAGGCCAGTCTGACTTCTTTCTCACCGTGCCCGTGT [3175]

Horse CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCCGACTTCTTCCTCACCGTGCCCGTGT [3347]

Rhino CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCTGACTTCTTCCTCACCGTGCCCGTGT [3338]

Cat CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCTGACTTCTTCCTCACCGTGCCCGTGT [3282]

Dog CCCTGGACCTCCAGAAGCTGAGGATAGGCCAGTCCGACTTCTTCCTCACCGTGCCCGTGT [3325]

Human CCCTGGACCTCCGGAAGCTGAGGATAGGCGAGTCTGACTTCTTCTTCACGGTGCCCGTGT [3307]

Galago CCCTGGACCTCCAGAAGCTGAGGATAGGCCAATCCAACTTCTTCCTCACCGTGCCCGTAT [3301]

Flying\_Lemur CCCTGGACCTCCAGAAGCTGAGGATAGGCCAATCTGACTTCTTCTTCACCGTGCCCGTGT [3285]

Tree\_Shrew CCCTGGACCTTCAGAAGCTGAGGATCGGCCAGTCCGACTTCTTCTTCACGGTGCCCGTGT [3222]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3550 3560 3570 3580 3590 3600]

[ . . . . . .]

Opossum CACGCTCCCTGAGCCCCCTCGGTGGGGGGAGCCAGACATGGGAGGGCAGTGGGGTGCTCC [3380]

Kangaroo CCCGTTCTCTGAGCCCCCTCAGTGGGGGGAGCCAGACGTGGGAGGGCAGTGGGGTGCTAC [3376]

Hedgehog CCAGGTCTCTGGGGGCCTTGGGCGGGGGCACTCAAACATGGGAAGGCAGTGGGGTGCTAC [3216]

Mole CCAGGTCTCTGGGGACTCTGGGCGGGGGCAGCCAGACATGGGAGGGCAGTAGGGTGCTGC [3388]

Sloth CCAGGTCCCTGGGGCCCCTGGGCGGGGACAACCAGACGTGGGAGGCCAGCGGGGTTCTTC [3208]

Pangolin CCAGGTCCCTAGGCCCCCTGGGCTGGGGTGACCAGACATGGGAGGGCAGTGGGGTGCTGC [3201]

Rat CCAGGTCCCTGGGACCTCTAGGTGGAGGTGGCCAGACATGGGAAGGCAGTGGCGTGCTGC [3371]

Capybara CCAGGTCGCTGGGCCCTCTGGGCGGAGGCAGCCAGACTTGGGAGGGCAGCGGGGTGCTAC [3313]

Rabbit CCAGATCCCTGGGGCCCCTGGGCGGGGGCAGCCAGACGTGGGAGGGCAGCGGCGTGCTGC [3210]

Round\_Eared\_Bat CCAGGTCCTTAGGGCCCCTTGGTGGGGGCAGCCAGACGTGGGAGGGCAGTGGGGTGCTTC [3293]

Flying\_Fox CCAGGTCCCTGGGGCCCCTGGGCGGGGGCAGCCAGACATGGGAGGGCAGTGGGGTGCTGC [3284]

Aardvark CTAGATCCTTGGGTCCTTTGGGCAGGGGGAGCCAGACATGGGAGGGCAGTGGGGTGCTAC [3378]

Elephant\_Shrew CCAGGTCCTTGGGGCCTCTGGGTGGAGGCACCCAGACATGGGAGGGCAGCGGGGTTTTGC [3176]

Hyrax CCAGGTCACTGGGCCCCTTAGGCAGGGGAAGCCAGACATGGGAGGGCAGTGGGGTGCTGC [3210]

Dugong CCAGGTCCTTGGGGCCTTTGGGCAGGGGAAGCCAGACATGGGAGGGCAGCGGGGTGCTAC [3244]

Elephant CTAGGTCCTTAGGCCCCCTGGGCGGGGGAAGCCAGACATGGGAAGGCAGTGGGGTCCTCC [3218]

Pig CCAGGTCCCTGGGGCCCCTGGGTGAGGGCAGCCAGACATGGGAGGGCAGCGGAGTGCTGC [3382]

Cow CCAGATCCCTGGGGCCCCTGGGTGAGGGCAGCCAGACGTGGGAGGGCAGTGGGGTGCTGC [3377]

Hippo CCAGGTCCCTGGGGCCCCTGGGCGAGGGCAGCCAGACGTGGGAGGGCAGCGGGGTGCTGC [3225]

Whale CCAGGTCCCTGGGGCCCCTGGGCAAGGGCAGCCAGACTTGGGAGGGCAGCGGGGTGCTGC [3235]

Horse CCAGGTCCCTGGGGCCCCTGGGCGGGGGTAGCCAAACATGGGAGGGCAGTGGAGTTCTGC [3407]

Rhino CCAGGTCCCTGGGGCCCCTGAGCGGGGGCAGCCAGACGTGGGAGGGCAGTGGGGTGCTGC [3398]

Cat CCAGGTCCCTAGGGCCCCTGGGAGGGGGCAGCCAGACATGGGAGGGCAGTGGGGTGCTGC [3342]

Dog CCAGGTCCCTGGGGCCCCTGGGAGGGGGCAGCCAGACGTGGGAGGGCAGCGGGGTACTGC [3385]

Human CCAGGTCCCTGGGGCCCCTTGGTGGAGGCAGCCAGACGTGGGAGGGCAGCGGGGTGCTGC [3367]

Galago CCAGGTCCCTGGGGCCCCTGGGTGGAGGCAGCCAGACGTGGGAGGGCAGCGGGGTGCTGC [3361]

Flying\_Lemur CCAGGTCCCTCGGGCCCCTGGGCGGGGGCAGCCAGACATGGGAGGGAAGCGGGGTGCTGC [3345]

Tree\_Shrew CTAGGTCCCTAGGGCCCCTGGGTGGGGGCAGCCAGACCTGGGAGGGAAGCGGGGTCCTGC [3282]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3610 3620 3630 3640 3650 3660]

[ . . . . . .]

Opossum CCTGTGTAGGGATCCCAGCAGAACAGGCCCTGGGGAAAGCACTGGCCATTCTCACCCTGC [3440]

Kangaroo CCTGTGTGGGGATTCCAGCAGAAAAGGCCCTAGAGAAAGCCCTGGCCATCCTCACCCTCC [3436]

Hedgehog CCTGTGTGGGGACGCTGGCGGAACAGGCCCTGGAGAAAGCCCTGGCCATCCTCAAACTGC [3276]

Mole CCTGTGTGGGGGCACCGGCAGAGCAGGCCCTAGAGAAGACCCTGGCCATCCTCACCCTGC [3448]

Sloth CCTGTGTGGGAACACCAGCTGAGAAGGCCCTGGAGAAGGGCATGGCTATCCTTCGACTGC [3268]

Pangolin CCTGTGTGGGAACAACGAGCGACCAGTCCCTAGAGCAAACCCTGGCCGTCCTCACTCTGC [3261]

Rat CTTGTGTGGGGACCCCTGCAGAGCAAGCCCTAGAAAAGGCCCTGGCCATCCTCACCCTGC [3431]

Capybara CATGTGTGGGCACGCCAGCTGAGCATGCCCTGGAGAAGGCACTGGCCATTCTCACCCTGC [3373]

Rabbit CCTGCGTGAGGACACCAGCCGAGCAAGCCCTGGAGAAGGCGCTGGCCATCCTCACCCTGC [3270]

Round\_Eared\_Bat CCTCTGTGGGGATACCAGCTGAGCAGGCCCTAGAGAAGGCCCTGGCCATGCTCACACTGC [3353]

Flying\_Fox CCTGTGTTGGGACACCGGCAGAACAGGCCCTAGAGAAGGCCCTGGCCATTCTCACCCTGC [3344]

Aardvark CCTGTGTGGGGACTCCGGAAGAACAGACCCTAGAGAAAGCGCTGGCTATCCTAACCCTGC [3438]

Elephant\_Shrew CCTGTGTGGGGACTCCAGCAGAGCAAGCCCTCGAGAAAACTCTTGCTATCCTCACACTGC [3236]

Hyrax CCTGTGTGGGAACGCCGGCAGAGGAAGCTCTGGAGAAAGCGCTGGCCATCCTTACTCCAC [3270]

Dugong CCTGTGTGGGAACTCCGGCAGAGGAGGCCCTGGAGAAAGCGCTGGCCATCCTCACGCTAA [3304]

Elephant CCTGTGTAGGAACTCCGGAAGAGGAGCCCCTGGAAAAAGCCCTGGCAATCTTAACGCCAC [3278]

Pig CTTGTGTAGGGACACCAACCGAGCAGGCCCTGGAGAAAGCCCTGGCCATCCTCAAGTTGC [3442]

Cow CCTGTGTGGGGACACCGGCCGAGCAGGCCCTGGAGAAAGCCCTGGCCGTTCTCATGCTGC [3437]

Hippo CTTGTGTGGGGACACCAGCCGAGCAGGCCCTGGAGAAAGCCCTGGCCATCCTCACGCTGC [3285]

Whale CTTGTGTGGGGACACCGGCCGAGCAGGCCCTGGAGAAGGCCCTGGCCATCCTCACGCTGC [3295]

Horse CCTGTGTGGGGACCCCGGCCGAGCAGGCCCTAGAGAAAGCCCTGTCCATCCTCACACTGC [3467]

Rhino CCTGTGTGGGGACACCAGCCGAGCAGGCCCTAGAGAAAGCCCTGGCCATCCTCACGCTGC [3458]

Cat CCTGTGTGGGGACACCAGCCGAGCAGGCCCTAGAGAAAGCCCTGGCCATCCTCACTCTGC [3402]

Dog CCTGTGTGGGGACGCCGGCCGAGCAGGCCCTGGAGAAAGCCCTGGCCATCCTGACCCTGC [3445]

Human CCTGTGTGGGGACTCCGGCCGAGCAGGCCCTGGAGAAAGCCCTGGCCATCCTCACTCTGC [3427]

Galago CCTGTGTGGGGACCCCGGCGGAGCAGGCCCTGGAGAAAGCTCTGTCCATTCTCACTCTGC [3421]

Flying\_Lemur CCTGTGTGGGGACACCGGCTGAGCAGGCCCTGGAGAAAGCCCTGGCCATCCTCACCCTGC [3405]

Tree\_Shrew CCTGTGTGGGGACGCCCGCGGAGAAGGCCCTGGAGAAAGCCTTGGCCATCCTCACACTGC [3342]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3670 3680 3690 3700 3710 3720]

[ . . . . . .]

Opossum GCAGGGCAAGACCGGGAGCCATTCAACGTCTCATGGAAGTCTTACAGAATTACTACACCC [3500]

Kangaroo GCAGGGCGAGACCAGGAGCCATTCAGCGTCTCATGGAAGTCTTGCAGAATTACTACACCC [3496]

Hedgehog GCCGTGTCCTGCCTGGAGTGCTCCGTCGCTTGCAGGAGGTGCTGCAGGACTACTACACGC [3336]

Mole GCAGTGCCCTCCCAGGGGTCATGCAGCGCCTGCAGGAAGCCCTACAGGACTACTACACGC [3508]

Sloth GCCGGGCCCTGCCGGTAGTAATCCAGGACCTGCAGGATCCCCTACAGAAGTACTACACCC [3328]

Pangolin GTGGTACCCTCCCGGGGGTCATCCGGTGCCTGCAGGAGTCCCTGCAGGACTACTACACAC [3321]

Rat GTCGTGCCCTGCCAGGGGTTGTCCTCCGACTTCAGGAAGCCCTCCAGGACTATTACACAT [3491]

Capybara GCCGCGCCCTGCCAGGGGTCACGCACCGCCTGCAGGAGGCCCTGCGGGAGTACTACGCGC [3433]

Rabbit GCCGGGCCCTGCCGGGGCTGGTCCGCCGCCTACAGGAAGCCCTCCAGGAATACTACACGC [3330]

Round\_Eared\_Bat GCAGGGCCCTGCCAGAAGTCATGCAGCACCTGCAGGAGGCCCTGCAGGACTACTACACCC [3413]

Flying\_Fox GCAGAGCCCTGCCGGGAGTCATGCGGCGCCTACAGGAGGCCCTGCAGGACTACTACACAC [3404]

Aardvark GCCGAACCCTCCCAAAGATAATCCAGCGCCTACAGGAGGCCCTCCAAGACTACAACACAT [3498]

Elephant\_Shrew GTCGAGCCCTTCCACAGATCATCCAGCGCCTAGAGAAGGCCCTACAGGACTACTACACGC [3296]

Hyrax GACGTGCCCTTCCGCAGATCATCCGACGCCTAGGGGAGGCCCTGCAGGACTACTACACAC [3330]

Dugong GACGCGCCCTGCCGCAGATCACCCGGCGCCTGGAGGAGGCCCTGCAGGACTACTACACGT [3364]

Elephant GGCGCGCCCTCCCAAAGATCATCCGGCGCCTGCAGGAGACCCTGCAGGACTATTACACAC [3338]

Pig GTCGTGCCCTTCCAGGAGTGATCCAGCGCCTACAGGAGGTCCTGCAGGAATACTACACGC [3502]

Cow GCAGGGCCCTGCCAGGAGTCATTCAGCGCCTTCAGGAGGCGCTGCGCGAGTACTACACGC [3497]

Hippo GCCGTGCACTGCCGGGAGTCATCCAGCGCCTGCAGGAGGCCCTGAAGGAATACTACACCC [3345]

Whale GCCGCGCCCTGCCGGCAGTCATCCAACGCCTGCAGGAGGCCCTGCGGGAATACTACACAC [3355]

Horse GCCGTGCCCTGCCAGGAGTCATCCAACGCCTGAAGGAGGCCCTACAGGACTACTACACGC [3527]

Rhino GCCGAGCCCTGCCGGGAGTCATCCAGCGCCTACAGGAGGCCCTGCGGGACTACTACACTC [3518]

Cat GCCGGGCCCTGCCAGAGGTTGTCCAGCGCCTGCAGGAGGCCGTGCAGACCTACTACACCC [3462]

Dog GCCGCGCCCTGCCCGGCGTGGTACGGCGCCTGCAGGAGGCCCTGCAGGCCTACTACACAC [3505]

Human GCAGCGCCCTTCCAGGGGTAGTCCACTGCCTCCAGGAGGTCCTGAAGGACTACTACACGC [3487]

Galago GCCGCGCCCTGCCCGGGGTTGTGCGCTGCCTGCAGGAGGCGCTGCAGGACTACTACACGC [3481]

Flying\_Lemur GCCGTGCCCTGCCAGAGGTGGTGCGCTGTCTGCAGGAGGCCCTGAGGGACTACTACACGC [3465]

Tree\_Shrew GCCGAGCCCTGCCGGGGGTGGTGCACCGTCTGAAGGAGGCCCTGCAGGAATACTACACGC [3402]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3730 3740 3750 3760 3770 3780]

[ . . . . . .]

Opossum TGGTGGATCGGGTACCCGCGCTGCTCCATCACCTCACTGTCATCGACTATTCCTCAGTGC [3560]

Kangaroo TGGTCGACAGAGTACCTGCCCTGCTCCATCACCTTACTGCCATCGACTATTCCTCAGTGC [3556]

Hedgehog TGGTGGACCGTGTTCCCGCACTGCTACATCACCTGGCTGGCATGGACTTCTCTGCTGTGG [3396]

Mole TGGTGGACCGTGTGCCCACCCTGCTGCAACACCTGGCCAGCATGGACTTCACCGCGGTGG [3568]

Sloth TGGTGGACCGTGTGACCACCCTCTT????????????????????????????GCTGTGG [3388]

Pangolin AGGTGGACTGTGTGCCCGCCCTGCTGCACCACCTGGAAAGCATGGACCTCTCCTCGGTGG [3381]

Rat TAGTGGACCGAGTGCCGGGCCTGCTGCACCACCTGGCCAGCATGGACTACTCAGCTGTGG [3551]

Capybara TGGTGGACTGCGTGCCAACCCTGCTGCACCGCCTGGCCAGCATGGACTACTCCACAGTGG [3493]

Rabbit TGGTGGACCGTGTGCCCGCCCTGCTGCATCACCTGGCCACCATGGACTTCTCCACGGTGG [3390]

Round\_Eared\_Bat TGGTGGACCACGTGCCTGCCCTACTGCACCACCTGGCCAGCATGGACTTCACCATGGTGG [3473]

Flying\_Fox TGGTGGACCGCGTGCCGGCCCTACTACATCACCTGGCCAGCATGGACTTTGCCGCAGTGG [3464]

Aardvark TGGTAGGCCGTGTGCCTGCCCTGCTGCACCACCTTTCCACCATGGACTTTTCTACCGTGG [3558]

Elephant\_Shrew TGGTGAGTCGTGTGCCTGCACTGTTGCACCTCCTTGCTAACATGGATTTCTCTGCTATAG [3356]

Hyrax TGGTCAGCCGAGTGCCTGCCCTGCTGCACCACCTCACCACCATGGACTTCTCTGCAGTGG [3390]

Dugong TGGTGGGTCGAGTGCCCGCCCTGCTGCACCTCCTCGCCACCATGGACTTCTCCGCTGTGG [3424]

Elephant TGTTGAGCCGAGTGCCCACCCTGCTGCACCTCCTCGCCACCATGGACTTCTCCACCGTGG [3398]

Pig TGGTGGACCGTGTGCCAGCCCTTCTGCACCACCTGGCCAGTATGGACCTGTCCTCGGTGG [3562]

Cow TGGTGGACCGTGTGCCCGCCCTGCTGAGCCACCTGGCCGCCATGGACCTGTCCTCGGTGG [3557]

Hippo TGGTGGACCGCGTGCCCGCCCTGCTGCACCACCTGGCCAACATGGACCTGTCCTCGGTGG [3405]

Whale TGGTGGACCGCGTGCCCTCCCTGCTGCACCACCTGGCCAACATGGACCTGTCCTCGGTGG [3415]

Horse TGGTGGACCGCGTGCCTGCCCTGCTGCACCACCTGGCCAGCATGGACTTCTCCTCAGTGG [3587]

Rhino TGGTGGACCGCGTGCCCGCCCTGCTGCACCACCTGGCCAACATGGACTTCTCCTCCGTGG [3578]

Cat TGGTGGACCGTGTGCCCAGCCTGCTGCACCACCTAGCCAACATGGACTTCTCCGCAGTAG [3522]

Dog TGGTGGACCGCGTGCCCGCCCTGCTGCACCACCTGGCCAGCATGGACTTCTCCGCCGTGG [3565]

Human TGGTGGACCGTGTGCCCACCCTGCTGCAGCACTTGGCCAGCATGGACTTCTCCACGGTGG [3547]

Galago TGGTGGACCGCGTGCCGGCCCTGCTGCACCACCTGGCCAGCATGGACTTCTCCACAGTGG [3541]

Flying\_Lemur TGGTGGACCGCGTGCCTGCCCTACTGCACCACCTGGCCAGCATGGACTTCTCCTCTGTGG [3525]

Tree\_Shrew TGGTGGACCGCGTGCCCGCGCTGCTGCGCCACCTGGCCGGCATGGACTTCTCCGAGGTGG [3462]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3790 3800 3810 3820 3830 3840]

[ . . . . . .]

Opossum TCACAGAGGAAGATTTGGCGACCAAGCTCAATGCAGGACTGCAAGCTGTGTCAGAGGACC [3620]

Kangaroo TCACAGAGGAGGATTTGGCTGCCAAACTCAATGCAGGACTACAGGCTGTGTCCGAGGACC [3616]

Hedgehog TCTCTGAGGAGGATCTGGTCACCAAGCTCAACACTGGCCTGCAAGCTGTGTCAGAGGACC [3456]

Mole TCTCTGTGGAAGATCTGGTCACTAAGCTCAACACTGGTCTCCAGGCTGTGTCTGAGGACC [3628]

Sloth TCTCCGAGGAGGAACTGGTCGCCAAGCTCAACACCGGCCTGCAGGCCGTGTCTGAGGACC [3448]

Pangolin TCTCTGAGGAGGATCTCGTCACTAAGCTCAATGCTGGCCTGCAGGCGGTGTCAGAGGACC [3441]

Rat TCTCTGAAGAGGACCTGGTGACAAAGCTCAATGCTGGCTTGCAGGCTGTGTCGGAGGATC [3611]

Capybara TCTCGGAGGAGGACCTGGTCGCCAAGCTCAACAGCGCACTGCAGGCTGTATCTGAGGACC [3553]

Rabbit TCTCTGAAGAAGACCTGGTCTCCAAGCTCAATGCCGGGCTGCAGTCTGTGTCTGAGGACC [3450]

Round\_Eared\_Bat TCTCTGAGGAGGATCTGATCACGAAGCTCAACGCTGGTCTGCAGGCTGTGTCTGAGGACC [3533]

Flying\_Fox TCTCTGAGGACGATCTGGTCACTAAGCTCAACGCTGGTCTGCAGGCTGTGTCCGAGGACC [3524]

Aardvark TTTCTGAGGAGGACCTGGTCGCCAAGCTTAATGCTGATCTGCAGGCTGTGTCTGAGGACC [3618]

Elephant\_Shrew TCTCTGAGGAGGACCTGGTCAACAAGCTTAATGCTGACCTGCAGGCCGTGTCTGAGGACC [3416]

Hyrax TCTCCGAGGAGGATTTGGTTGCCAAGCTCAATGCCGACCTGCAGGCAGTGTCTGAGGACC [3450]

Dugong TCTCGGAGGAGGACCTGGTTGCCAAGCTCAACGCTGACCTGCAGGCCGTGTCTGAGGACC [3484]

Elephant TCTCGGAGGAGGACCTGGTTGCCAAGCTCAACGCCGACCTGCAGGCGGTGTCTGAGGACC [3458]

Pig TCTCCGAGGAGGATCTGGTCACTAAGCTCAACGCTGGCCTGCAGGCTGTGTCTGAGGACC [3622]

Cow TCTCCGAGGACGATCTGGTCACTAAGCTCAATGCTGGCCTGCAGGCTGTGTCTGAGGACC [3617]

Hippo TCTCCGAGGAAGATCTGGTCACTAAGCTCAATGCCGGCCTGCAGGCCGTGTCCGAGGACC [3465]

Whale TCTCCGAGGAGGATCTGGTCACTAAACTCAACACCGGCCTGCAGGCCGTGTCCGAGGACC [3475]

Horse TCTCTGAGGACGATCTGGTCGCTAAGCTCAACGCTGGCCTGCAGGCTGTCTCCGAGGACC [3647]

Rhino TCTCCGAGGAGGATCTGGTCACTAAGCTCAACGCTGGCCTGCAGGCTGTATCCGAGGATC [3638]

Cat TCTCGGAGGAGGACCTGGTCACCAAACTCAACGCTGGCCTACAGACTGTGTCTGAGGACC [3582]

Dog TCTCTAGGGAGGACCTGGTCACCAAGCTCAATGCTGGTCTGCAGACCGTGTCCGAGGACC [3625]

Human TCTCCGAGGAAGATCTGGTCACCAAGCTCAATGCCGGCCTGCAGGCTGCGTCTGAGGATC [3607]

Galago TCTCGGAGGAGGATCTGGTCACCAAGCTCAATGCGGGCCTACAGTCTGTGTCCGAAGACC [3601]

Flying\_Lemur CCTCCGAGGAGGACCTGGTCACGAAGCTCAACGCCGGCCTGCAGACTGTGTCCGAGGACC [3585]

Tree\_Shrew TCTCTGAGGAGGGCCTGGTCAGCAGGCTCAATGCTGGCCTGCAGGCAGTGTCCGAGGATC [3522]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3850 3860 3870 3880 3890 3900]

[ . . . . . .]

Opossum CCAGGCTCCTCGTTCGGGTTCTGAAGCCTGAGGAAGTCACAA---CTGACTC------TG [3671]

Kangaroo CCAGGCTCCTCGTACGGGTTCTGAGGCCTGAGGAAGCCGCGG---CTGGGGC------CG [3667]

Hedgehog CCAGGCTTCTGGTTCGGACAGTGAGACCCAAGGAAAACTCTG---ATGGACC------GG [3507]

Mole CCAGGCTCATGGTACGAGCCGTCAGGCCCAAAGAAACCTCTT---CTGGGCG------AG [3679]

Sloth CCCGGCTCCTGGTGCGGG---------CCAGGAGAAACTCTC---CCGGGCC------CG [3490]

Pangolin CCAGGCTTGTGGTGAGGACTGTGAAGTCCAAAGAAACCTCCT---CTGGGCC------CG [3492]

Rat CCAGGCTCCTGGTGAGGGCCACCGGACCCAGAGACTCCTCCT---CAAGACC------TG [3662]

Capybara CCAGGCTCCTAGTGAGGGCTGTGGGGCCCAGAGAAACCTCTT---TGGGGCC------TG [3604]

Rabbit CCAGGCTCCTGGTGCGTGCCATGGGGCCCAGAGAAACTGCTT---CTGGGCT------CG [3501]

Round\_Eared\_Bat CTAGGCTCCTGGTACGGCCCATCAGGCCCAAAGAAACCTCTT---TTGGGCC------TG [3584]

Flying\_Fox CCAGGCTCCTGGTGCGAGCCATTAGGCCCAGGGAAACCTCTT---CTGGGCC------CG [3575]

Aardvark CCAGGCTCCTGGTGCAAGTCTTTAAGTCCAGAGAAAACTCTC---CTGGGCA------TG [3669]

Elephant\_Shrew CCAGGCTCCTCGTGCAGGATCATAAGGACAGAGAACACTCTC---CCGAACA------GG [3467]

Hyrax CCAGACTCTTGGTCCAAGCTCTGGGGCCTAGAGAAAACTCTC---CCCCATC------TG [3501]

Dugong CCAGACTCCTCGTGCAGGCCCTCAGGCCCAGAGAAAACTCTC---CCGCGCC------GG [3535]

Elephant CCAGACTCCTGGTGCAGGCCCTCAGGCCCAGGGAAAACTCTC---CTGAGCC------TG [3509]

Pig CCAGGCTCCTGGTGCAGGTGGTCAAGTCCAAAGAACCCTCTT---CTGAGTC------CA [3673]

Cow CCAGGCTCCAGGTGCAGGTGGTCAGACCCAAAGAAGCCTCTT---CTGGGCC------TG [3668]

Hippo CCAGGCTCCTGGTGCAGGTGGTCAAGTCCAAAGGAACCTCTT---ATGGGCC------CG [3516]

Whale CCAGGCTCCTGGTGCAGGTGGTCAGGTCCAAAGAAACCTCCT---CTGGGCC------CG [3526]

Horse CCAGGCTCCTGGTGTGGGTCGTCAGGTCCAAAGAGACCCCTC---CCGGGCT------GG [3698]

Rhino CCAGGCTCCTAGTGTGGGCTGTCAGGCCTAAAGAAACTCCTC---CTGGGGC------CG [3689]

Cat CCAGGCTCCTGGTGCGGGCCGTGAGGCCCAAGGACGCCTCTT---CTGCGCC------CG [3633]

Dog CCAGGCTCCTGGTGCGGGCTGTGAGGCCCAGGGAGGGTCCTT---TGGGGCC------CG [3676]

Human CCAGGCTCCTGGTGCGAGCCATCGGGCCCACAGAAACTCCTT---CTTGGCCCGCGCCCG [3664]

Galago CCAGACTTCTAGTGCGGGCTGTTAGACCCAGAGAAACTCCTT---CCTGGGC------GG [3652]

Flying\_Lemur CCAGGCTCCTGGTACGGGCAGTCAAGCCCAGGGAAACCTCTT---CCGGGCC------TG [3636]

Tree\_Shrew CCCGGCTGCTGGTGCGGGCAGTCAAGCCCAGAGAAGCCTCCG---TGGAGCC------TG [3573]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3910 3920 3930 3940 3950 3960]

[ . . . . . .]

Opossum AAGTTAGCAAGGAGGCAGATACTACAGCTGTGGCCCACTCACTGCCTGAGGATGAAGTCC [3731]

Kangaroo AACCTAGAGAGGAAGC---TGCTTCCACTGCATCCGTGTCATTGCCTGAGGGTGAATCCC [3724]

Hedgehog A----------------------------------------------------------- [3508]

Mole AAGCTGGAACCAACGAGTCCCCAGAGG---TGATCCCAACAATGCCTGAGGATGACACAG [3736]

Sloth AGACCAGTGCTGACGACCCCCCAGAGG---TGGCCTTGGCAGTGCCCGAGGATGAGGCTG [3547]

Pangolin AGGCTGGCACCAAAGATCCCCTAGAGG---AGGCCCCAGCAGTGCCCAAGGAAGAGAATG [3549]

Rat AGACTGGGCCTAATGAGTCCCCAGCAG---CCACCCCCGAGGTGCCCACGGAAGAAGATG [3719]

Capybara AGGCTGAAGCCCATGAGCCCCCAGAGG---CAGAGCCTGAGGTGCCCAAGGATGAGGCTG [3661]

Rabbit AGGCGGCAGTTGAGGACCCTCCAGAGG---CAGCCCCC---------------------- [3536]

Round\_Eared\_Bat AGCCTGGAGCCGATGACCTCCCAGAGG---AGGCCCCAGCAGTGCCAGAGGATGAGGTTG [3641]

Flying\_Fox AGGCTGGAGCTGACTACCCCCCAGAGG---TGGTCCCAGCAGTGCCAGAGGATGAGATTG [3632]

Aardvark AGCCTGGAGCTGATGGACCCCCTAGTA---CAGTCCCTGTGGTGCCTGAGGATGAGGCTG [3726]

Elephant\_Shrew AGAC------CAGTGACGCCCCTGGGG---AATCTCCAGTGGTCCCTGAGGGTGAGGCTG [3518]

Hyrax AGTCAGAAGCCGACAGACCTCCAGGGA---CAGCCTCCATGGTCCCTCAGGATGAGGCTG [3558]

Dugong AGACCCGAGCCGACGGACCCCCAGGGG---CAGCCCCCATGGTGCCGGAGGATGAGGCTG [3592]

Elephant AGCCGGAAACCGACGGAGCCCCAGGGG---CAGCCCCCATGGTGCCTGAGGATGAGGCTG [3566]

Pig AGGATGAAGCTGAGGAACCGCCAGAGG---TGATCCCAGAAGTGCCCGAGGACGAGGCTG [3730]

Cow AGGAAGAAGCTGAAGAACCTCCAGAGG---CGGTCCCGGAAGTGCCCGAGGACGAGGCTG [3725]

Hippo AGGATGAAGCTGAAGAACCCCCGGAGG---TGGAGCCAGAAGTGCCCGAGGACGAGGCTG [3573]

Whale AGGATGAAACTGAAGAACCCCCGGCGG---TGGTCTCAGAAGTGCCCGAGGACGAGGCTT [3583]

Horse AGGCTGGAGCTGATGCCCCCCCAGAGA---TAGCCCCCGCAGTGCCCGTGGATGAGGCTG [3755]

Rhino AGGCTGCAGCTGATGTCCCCCCAGAGA---CAGCCCCAGCAGTGCCCGAGGATGAGGCTG [3746]

Cat AGGTTGGCGAGGATGAGCCTCCGGAGG---TAGTCCCCACGGTGCCCGGAGCTGAGGCTG [3690]

Dog AGGCGGGGGACGACGACCCGCCGGAGG---CGGTGCCCACGGTGCCAGATGACGAGGCTG [3733]

Human ACGCTGCAGCCGAAGACTCACCAGGGG---TGGCCCCAGAGTTGCCTGAGGACGAGGCTA [3721]

Galago AGGCTGGAACTGAAGAGGCCTCGGGGG---TGACCCCAGAGGTGCCTGAGGACGAGGCTG [3709]

Flying\_Lemur AGGCTGAAACTGATGACCCGCCAGAGG---TGGTCCCCACAATGCCCGAGGATGAGGCTT [3693]

Tree\_Shrew AGGCCGGAGCTGACAATGCCCCGGGAG---AGGCCCCGGTGTTACCCACAGACGAGGCCT [3630]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 3970 3980 3990 4000 4010 4020]

[ . . . . . .]

Opossum CAGAGCAAGCCCTGGTAGACTCTGTGTTCCAGGTATCAGTGTTGCCAGGTAACGTGGGCT [3791]

Kangaroo AAAGGCAGGCCCTGGTAAACTCTGTGTTCCAGGTGTCAGTGTTGCCAGGTAACGTGGGCT [3784]

Hedgehog ------------------------------------------------------------ [3508]

Mole CCCTGCAGGCCCTGGTGGACTCTGTCCTCCAGGTGTCCACGGAGCC-------------- [3782]

Sloth CCCGACGGGCTCTGGTGGACTCCGTGTTCCAGGTGTCGGTGCTGCCCGGCAACGTGGGTT [3607]

Pangolin CCCAGCGGGCCCTGGTGGACTCTGTGTTCCAGGTGTCAGTGCTGCCAGGCAATGTGGGCT [3609]

Rat CCCGGAGGGCCCTGGTGGACTCTGTGTTTCAGGTGTCCGTGCTGCCGGGCAATGTGGGCT [3779]

Capybara CCCGGCAGGCACTGGTGGACGCTGTGTTCCAGGTGTCGGTGTTGCCGGGCAATGTGGGCT [3721]

Rabbit ------------------------------------------------------------ [3536]

Round\_Eared\_Bat CCCGGCAGACCCTGGTGGATTCTGTGTTTCAGGTGTCAGTGCTGCCGGGAAATGTGGGTT [3701]

Flying\_Fox CCCGGCAGGCCCTAGTGGACTCCGTTTTCCAGGTGTCAGTGCTTCCAGGAAACGTGGGCT [3692]

Aardvark CCCAGCGTGCCCTGGTGGAGTCGGAGTTCCAGGTGTCAGTGCTGCCGGGTAATGTGGGCT [3786]

Elephant\_Shrew CCCAGCGTGCCCTGGTGGACTCTGAGTCCCAGGTGGCGGTGCTG---------------- [3562]

Hyrax CCCAGCGTGCCCTGGTAGAGTCCGAGTTCCAGGTGTC----------------------- [3595]

Dugong CCCAGCGTGCCCTGGTGGAGTCCGAGTTCCAGGTGTCGCCGCCCG--------------- [3637]

Elephant CTCAGTGTGCTCTGGTGGAGTCCGAGTTCCAGGTGTCGGTGCTGCAGGGTAACGTGGGCT [3626]

Pig CCCGGCGGGCCCTGGTAGACGCTGTGTTCCAGGTGTCTGTGCTTCCAGGCAACGTGGGCT [3790]

Cow TTCGGCGGGCTCTGGTGGACTCCGTGTTCCAGGTTTCTGTGCTGCCGGGCAACGTGGGCT [3785]

Hippo CCCGGCTGGCCCTGGTGGACTCTGTGTTCCAGGTGTCCGTACTGCCGGGCAACGTGGGCT [3633]

Whale CCCGGCGGGCCCTGGTGGACTCCGTGTTCCAGGTGTCCGTGCTGCCGGGCAACGTGGGTT [3643]

Horse CCCTGCAGGCCTTGGTGGATGCCGTGTTCCAGGTGTCCGTGCTGCCGGGGAACGTGGGCT [3815]

Rhino CTCGACAGGCCTTGGTGGACGCCGTGTTCCAGGTGTCAGTGCTGCCGGGGAACGTGGGCT [3806]

Cat CCCGGCAGGCCCTGGTGGTCTCTATGTTTCAGGTGTCAGTGCTGCCAGGCAATGTGGGCT [3750]

Dog GCCGCCAGGCCCTGGTGGACTCCATGTTCCAAACGTCCGTGCTGCCGGGCAATGTGGGCT [3793]

Human TCCGGCAAGCACTGGTGGACTCTGTGTTCCAGGTGTCGGTGCTGCCAGGCAATGTGGGCT [3781]

Galago TCCGGCAAGCCCTGGTGGACTCCGTGTTCCAAGTGTCAGTGCTGCCGGGCAACGTGGGCT [3769]

Flying\_Lemur CCCAGCAGGCCCTGGTGGATGCCACGTTCCAGGTGTCTGTGCTGCCGGGCAATGTGGGCT [3753]

Tree\_Shrew CCCTGCAGGCCCTTGTGGACTCCGTGTTCCAGGTGTCTGTGTTGCCCGGCAATGTCGGCT [3690]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 4030 4040 4050 4060 4070 4080]

[ . . . . . .]

Opossum ATTTGAGGTTTGATGAGTTTGCTGACTCCTCGGTACTTG-CACCCTGG------------ [3838]

Kangaroo ATCTGCGGTTTGACGAGTTTGCAGACTCCTCGGTCCTTGGCGCACTGGCTCCCTATGTGC [3844]

Hedgehog ------------------------------------------------------------ [3508]

Mole ------------------------------------------------------------ [3782]

Sloth ACCTGCGCTTCGACCAGTTTGCCGACCCCTCGGTGCTGGAAGACCTG------------- [3654]

Pangolin ACCTGCGCTTTGACAGGTTTGTGGATGCCTCTGTGCTGAGGACACTG------------- [3656]

Rat ACCTGCGCTTTGATAGATTTGCAGACGCCGCTGTGCTGGAGACGCTG------------- [3826]

Capybara ACCTGCGCTTTGACAGGTTCGCAGACGACTCAGTGCTGGGGGCACTG------------- [3768]

Rabbit ------------------------------------------------------------ [3536]

Round\_Eared\_Bat ACCTGCGCTTTGACAGATTTGTTGATGCCTCTGTGC------------------------ [3737]

Flying\_Fox ACCTG------------------------------------------------------- [3697]

Aardvark ACTTGCGCTTTGACAGGTTTGCTGATGTGTCCATTCTGGAAGTCCTG------------- [3833]

Elephant\_Shrew ------------------------------------------------------------ [3562]

Hyrax ------------------------------------------------------------ [3595]

Dugong ------------------------------------------------------------ [3637]

Elephant ACCTGCGCTTCGACAGGTTTGCAGACGTGTCCGTTCTGGAGATGCTG------------- [3673]

Pig ACCTGCGCTTTGACAGTTTTGCTGACCCCTCGGTGCTGGGGGTGCTG------------- [3837]

Cow ACCTGCGCTTCGACAGTTTCGCTGATGCCTCTGTCCTGGAGGTGCTGGGCCCCTACATCC [3845]

Hippo ACCTGCGCTTCGACAGGTTTGCTGATGCCTCAGTGATAGGGCCGCTG------------- [3680]

Whale ACCTGCGCTTTGACAGGTTTGCCGACGCCTCAGTGTTGGGGGTCCTG------------- [3690]

Horse ACCTGCGCTTCGACAGCTTTGCCGACGCCTCTGTGCTGGGCCCGCTG------------- [3862]

Rhino ACCTGCGCTTCGACAGCTTTGCCGATGCCTCTGTTCTCGGGGCACTG------------- [3853]

Cat A----------------------------------------------------------- [3751]

Dog ACCTCCGCTTCGACAGCTTCGCGGCCGCCCCGGTGCTGGAGGTGCTG------------- [3840]

Human ACCTGCGCTTCGATAGTTTTGCTGACGCCTCCGTCCTGGGTGTGTTGGCCCCATATGTCC [3841]

Galago ACCTGCGCTTTGACAGCTTTGCCGATGCCTCGGTGCTG---------------------- [3807]

Flying\_Lemur ACCTGCGCTTTGACAGGTTTGCAGATGCCTCCGTGCTGGAGGA----------------- [3796]

Tree\_Shrew ACCTGCGCTTCGACATGTTTGCCGACGCCTCGG--------------------------- [3723]

Madagascar\_Hedgehog ------------------------------------------------------------ [2580]

Golden\_Mole ------------------------------------------------------------ [2585]

[ 4090 4100 4110 4120 4130 4140]

[ . . . . . .]

Opossum -----------------------????????????????????????????????????? [3875]

Kangaroo TACGACAGGTCTGGGAGCCCCTT??CCATAAGCCAGATCTGCAGTTGCCCTCATCATTTA [3904]

Hedgehog -----------------------????????????????????????????????????? [3545]

Mole -----------------------??????????????ACTGGTGGCGCCCCCCACGGAAG [3819]

Sloth -----------------------CAGGAGCCGGGGAGCCCAGTTCTTCCGGCCACGGAGG [3691]

Pangolin -----------------------??????CCTGGAGGCCTAGTGATGCCGCCCACGGAAG [3693]

Rat -----------------------CAAGAGCCCGGAGGCCTGGTGGTACCCCCAACAGATG [3863]

Capybara -----------------------CAGCAGCCTGGAGGCTTGGTGGTGCCCCCTACAGAGA [3805]

Rabbit -----------------------CAGGAACCGGGAGGCATGGTGGTACCCCCTACAGATG [3573]

Round\_Eared\_Bat -----------------------?????????GGAGGCCTAGAGGTGCCCCCCACCGAGG [3774]

Flying\_Fox -----------------------????????????????????GGTGCCCCCCACGGAAG [3734]

Aardvark -----------------------CAGGAGTCAGGAATCCTTGTGCTGTCCCCCACGGCAG [3870]

Elephant\_Shrew -----------------------??GGAGCCAGGAGTCCTTGTGCTGCCTACATCCGTAG [3599]

Hyrax -----------------------CAGGAGCCCAGT---ATTGTGCTGCCCCCAACAGTGG [3629]

Dugong -----------------------CAGGAGCCAGGAGGCCTTGCGCTTCCCCCAACAGTAG [3674]

Elephant -----------------------CAGAGGGCGGGAAAGCTTGTGCCGCCCTCAACAGTAG [3710]

Pig -----------------------GCGGAACCG------------GTGCCCCCCACAGAAG [3862]

Cow TGCACCAGGTGTGGGAGCCCCTGAAGGAGCCAGGAGGCC------CGCCCCCCACCGAAG [3899]

Hippo -----------------------AAGAAACCGGGGGGCCTGGTGGTGCCCCCCACAGAAG [3717]

Whale -----------------------AGGGAACCGGGAGGCCTGGCGGTGCCCCCCACAGAAG [3727]

Horse -----------------------??????????????CCTAGAGGTGCCTCCTACGGAAG [3899]

Rhino -----------------------??????CCGGAAGTCCTACCGATGCCTCCCACGGAAG [3890]

Cat -----------------------AGGGAGCCTGGAGGCCTAGTGGTGCCCCCCACAGAAG [3788]

Dog -----------------------AGAGAACCCGGAAGTCTTGTGGTGCCCCCCACAGAAG [3877]

Human TGCGCCAGGTGTGGGAGCCGCTACAGGAGCCGGGAGGCCTGGTGGTGCCTCCCACAGATG [3901]

Galago -----------------------?????????GGAGGTCTCCAGGTGCCCCCCACGGAGG [3844]

Flying\_Lemur -----------------------CAGGAACCGGGAGGCCTGGTGGTGCCCCCCACGGATG [3833]

Tree\_Shrew -----------------------??????????????????????TGCCCCCCACCGTTG [3760]

Madagascar\_Hedgehog -----------------------?????????GGAGGCCCCGGGCTGCCCCCCACAGAAG [2617]

Golden\_Mole -----------------------CAGGAGCCAGGAGGTGGTGTGCTGCCCCCTACAACAG [2622]

[ 4150 4160 4170 4180 4190 4200]

[ . . . . . .]

Opossum ??????????????ACCACAGCATATGTGGAGGAA---ACCCCTGAGCCTCCTCTGCATA [3932]

Kangaroo CCACAGCTGCCCCAACCACAGCATACCATGAGGAT---ACCCCTGAGCCTCCCCTGCACA [3961]

Hedgehog ???????????????????????????????????????????????????????????? [3605]

Mole TACCCGTCAGCCTCACCACCCCCTACGTGGAGGAC---ACCCCCGAGCCGCCGCTGCACA [3876]

Sloth CCCCCATTGGCCCCACCACCCCATATGTGGAGGAC---ACCTCCGAATTTCCCCTGCACG [3748]

Pangolin GCCCCGTCAGCCTCACCACCCCGTACGTGGAGGAC---ACGCCGGAGCCGCCACTGCACG [3750]

Rat CCCCAGTCAGCTCCACCACCCCATATGTTGAGGAC---ACCCCCGAGCCCCCCCTGCACA [3920]

Capybara TGCCAGTTAGTTCTACCACCCCATATCTGGAAGAC---ACCCCAGAGATGCCCCTGCATG [3862]

Rabbit CCCCAGTCAGGTCCACCACCCCATATATGGAGGAC---ACCCCCGAGCCGCCCCTGCACG [3630]

Round\_Eared\_Bat TCCCAGTCAGCCTCACCACTCTGTACGTGGAGGAC---ACCCCGGAGTCGCCACTGCATG [3831]

Flying\_Fox TCCCAGGCAGCCCCACCACCCCGTATGTGGAGGAC---ACCCCAGAGCCGCCCCTGCACG [3791]

Aardvark CCCCATTCAGTGCCACCACACCATACATGGAAGAT---ATTCCAGAGCTGCCCCTACATG [3927]

Elephant\_Shrew CCCCGGTCATCCCCACCACGCCATATGTGGAGGAC---ATTCCAGAGCTGCCACTGCATG [3656]

Hyrax TCCCAGTCAGTGCCACCACGCCATATGTGGAGGAC---ATTCCAGAGCTGCCTTTGCACG [3686]

Dugong CCCCAGTCAGTGCCACCACGCCATATGTGGAGGAC---ATCCCAGAGCTGCCCCTGCACG [3731]

Elephant CCCCAGTCAGCGTCACCACGCCATATGTGGAGGAC---ATCTCAGAGCTGCCCCTGCATG [3767]

Pig GCCCGGTCAGCCCCACCACACCCTACGAGGAGGAC---ACGCCAGAGCCGCCGCTGCACG [3919]

Cow GCCCGGTCATCCCCACAACCCCATATGTGGAGGAC---ATCCCGGAGCCGCCCCTGCATG [3956]

Hippo GCCCGGTTAGCCCCACCACACATTACGTGGAGGAC---ACCCAGGAGCCTCCCCTGCACG [3774]

Whale GCCCGGTTGGCTTCACCACCCCGTACGTGGAGGAC---ACGCCGGAGCCGCCCCTGCACG [3784]

Horse GCCCGGTCGGCCCCACCACCG?CTATGTGGAGGAC---ACCCCGGAGCCACCCCTGCACG [3956]

Rhino GCCCGGTCAGCCCCACCACCGCATATGTGGAGGAC---GCCCCGGAGCTACCCCTG?ATG [3947]

Cat GCCCGGTCAGAGCCACCACCCCATACGTGGAGGAC---ACCCCAGAGTCGACCCTCCACG [3845]

Dog GCCCCATTGGCTCTACCACCTCGTATGTGGAGGAC---ACGCCGGAGCCGCCCCTCCATG [3934]

Human CCCCGGTGAGCCCCACCACTCTGTATGTGGAGGAC---ATCTCGGAACCGCCGTTGCACG [3958]

Galago CCCCTGTGGGCACTACCACCCCATATGTGGAAGAC---ACCCCAGAGCCGCCCATGCACG [3901]

Flying\_Lemur CCCCAGCCAGCCCTACCACCGAGGACGTGGAGGAC---ACCCCAGAGCCGCCCCTGCACG [3890]

Tree\_Shrew TCCCGGTGAGCCCCACCACCCTGTACGTGGAAGAC---ACCCCTGAGCCGCCCCTGCACA [3817]

Madagascar\_Hedgehog TTCCGGTCAGTGCCACCACGCCGTACGTGGAGGAGGATATCCCCGAGGTCCCCATGCACG [2677]

Golden\_Mole CTCCAGTCAGCGTCACCACGCCATACGTGGAAGAC---ATCCCAGAGGCACCCCTACATG [2679]

[ 4210 4220 4230 4240 4250 4260]

[ . . . . . .]

Opossum ACTTCCACTGTAGCAAGATATTGGACTTGGCTTTCCTATTGGATGGCTCATCTAAGCTGT [3992]

Kangaroo GTTTCTACTGTAGCAAGCTGTTGGACTTGGCTTTCCTGCTGGATGGCTCCTCCAAACTGT [4021]

Hedgehog ?????????????????????????????????????????????GCTCCTCCAAGCTGT [3665]

Mole GCTTCCACTGCAGCAAGCTGCTGGACCTGGTCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3936]

Sloth ACTTCTTCTGCGGCAAGCTGCTAGACCTGGCCTTCCTGCTGGACGGCTCCAACAAGCTGT [3808]

Pangolin ACGTGTACTGCAGCAAGCTTCTGGACCTGGTCTTCCTGCTCGACGGCTCTTCCAAGCTGT [3810]

Rat ACTTCTACTGCAGCAAGCTGCTGGATCTCGTCTTCCTCCTGGATGGCTCCTACAGGCTGT [3980]

Capybara ACTTCTACTGCAGTAAGCTGCTGGATCTGGTCTTCCTGCTGGATGGCTCCTCCAAGCTGT [3922]

Rabbit ACTTCTACTGGAGCAATCTGATGGACCTCGTCTTCCTGCTGGACGGCTCGGCCCAGCTGT [3690]

Round\_Eared\_Bat ACTCCTACTGCAGCAAGCTGCTGGACCTGGCCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3891]

Flying\_Fox ACTTCTACTGCAGCAAGCTGCTGGATCTGGTCTTCCTGCTGGATGGCTCCAACAAGCTGT [3851]

Aardvark ACCTCTACTGCAGCAAGCTGCTGGACTTGGCCATCCTGCTGGATGGCTCCTCCAAGCTGT [3987]

Elephant\_Shrew ACTTCTACTGCAGCAAGCTGCTGGACCTGGCCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3716]

Hyrax ACCTCTACTGCAGCAAGCTGCTGGACATAGCCTTCCTGCTGGATGACTCCTCCAAGCTGT [3746]

Dugong ACCTCTACTGTAGCAAGCTGCTGGACCTGGCTTTCCTGCTGGACGGCTCCTCCAAGCTGT [3791]

Elephant ACCTCTACTGCAGTAAACTGCTGGACCTGGCCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3827]

Pig ACTTCTTCTGCAGCAAACTTCTGGACCTGGTCTTCCTGCTGGACGGCTCTGATAAGCTGT [3979]

Cow ACTTCTTCTGCAGCAAACTCCTGGACCTGGTCTTCCTGCTGGATGGCTCCTCCAAGCTGT [4016]

Hippo ACTTCTACTGCAGCAAGCTTCTGGACCTGGTCTTCCTGCTGGACTGCTCCTCCAAGCTGT [3834]

Whale ACTTCTTCTGCAGCAGACTTCTGGACCTGGTCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3844]

Horse ACTTCTACTGCAGCAAGCTTCTGGACCTGGTCTTCCTGCTAGATGGCTCCTCCAAGCTGT [4016]

Rhino ACTTCTACTGCAGCAAGCTTCTGGACCTGGTCTTCCTGCTAGATGGCTCCTCCAAGCTCT [4007]

Cat ATTTCTATTGCAGCAGGCTTCTGGACCTGGTTTTCCTGCTAGACGGCTCCTCCAAGCTGT [3905]

Dog ACTTCCACTGCAGCAGGCTTCTGGACCTGGTTTTCCTGCTGGATGGCTCCTCCAAGCTGT [3994]

Human ATTTCTACTGCAGCAGGCTACTGGACCTGGTCTTCCTGCTGGATGGCTCCTCCAGGCTGT [4018]

Galago ATTTCTTCTGCAGCAGGCTGCTGGACTTGGTCTTCCTGCTTGATGGCTCCTCCAAGCTGT [3961]

Flying\_Lemur ACTTCCTCTGCAGCAGGCTGCTGGATCTGGTCTTCCTGCTGGACGGCTCCTCCAAGCTGT [3950]

Tree\_Shrew GATTCCACTGCAGCAGGATGCTGGACCTGGTCTTCCTGCTGGACGGGTCCTCCAAGCTGT [3877]

Madagascar\_Hedgehog ACCTGTACTGCAGCAAGCTGCTCGACCTGGTCTTCCTGCTCGACGGCTCCTCCAAGCTGT [2737]

Golden\_Mole ACCTCTACTGTAGCAAGCTGCTGGACCTAGTCTTCCTGCTGGACGGCTCTGCCAAGCTGT [2739]

[ 4270 4280 4290 4300 4310 4320]

[ . . . . . .]

Opossum CGGAGGCTGAGTTTGAGGTGGTGAAGGCTTTTGTCGTAGGTGTGATGGAGCGTTTACACA [4052]

Kangaroo CGGAGGCTGAGTTTGAGGTGCTGAAGGCTTTTGTAGTTGGTGTGATGGAGCGTTTACACA [4081]

Hedgehog CGCAGGCTGAGTTCGAGGTGCTGAAGGCCTTTGTGGTGGGCGTGATGGAGCGGCTGCACA [3725]

Mole CGGAGGCCGAGTTTGAGGCGCTGAAGGGCTTCGTGGTGGACATGATGGAGCGCCTGCACA [3996]

Sloth CGGAGGCTGAGTTTGAAGCCCTGAAGGCCTTTGTGGTGGGCATGATGGAGCGGCTGCACA [3868]

Pangolin CGGAGGCCGAGTTCGAAGTGCTGAAGGTCTTTGTGGTGGGCACGATGGAGCGCCTGCGCA [3870]

Rat CTGAGGCTGAGTTTGAAGTGCTCAAAGCTTTTGTGGTGGGTACGATGGAGAGGCTACACA [4040]

Capybara CAGAGGCGGATTTTGAGGTGCTGAAGACCTTTGTGGTGAGCGTGATGGAGCGGGTGCACA [3982]

Rabbit CGGAGGCGGAGTTCGGAGTGCTGAAGGCCTTTGTGGTGAGCGTGATGGAGCGGCTGCACA [3750]

Round\_Eared\_Bat CCGAGGCGGAGTTCGAGGTGCTGAAGGTCTTCGTGGTGGGCATGATGGAGCGCCTGCACA [3951]

Flying\_Fox CCGAGGCCGAGTTCGAGGTGCTGAAGGCCTTCGTGGTGGGCATGATGGAGCGCCTGCACA [3911]

Aardvark CAGAGGCTGAATTCGAAGTGCTCAAAGTCTTTGTGGTGGGCATGATGGAACGGCTGCACA [4047]

Elephant\_Shrew CGGAGGCTGAGTTTGAGGTGCTGAAAGCCTTTGTGGTAAGCATAATGGAGCGACTGCACA [3776]

Hyrax CGGAGGCTGAGTTTGGGGTACTGAAGGGTTTTGTGGTGGACATGATGGAGCGGCTACACA [3806]

Dugong CAGAGGCTGAGTTTGACATGCTAAAGGTCTTTGTGGTGGACATGATGGAGCGGCTACACA [3851]

Elephant CGGAGGCTGAGTTTGATGTGCTAAAGGTCTTTGTGGTGGACATGATGGAGCGGCTGCACA [3887]

Pig CCGAGGCCGACTTCGAGGCCCTGAAGGTCTTCGTGGTGGGCATGATGGAACACCTGCACA [4039]

Cow CCGAGGCTGACTTCGAGACGCTGAAGGCATTCGTGGTGGGCATGATGGAGCGTCTGCACA [4076]

Hippo CCGAGGCCGACTTTGAGGCGCTGAAGGCTTTCGTGGTGGGCCTGATGGAGCATCTGCACA [3894]

Whale CTGAGGCCGACTTCGAGACGCTGAAGGCGTTCGTGGTGGGCGTGATGGAGCGCCTGCATA [3904]

Horse CTGAGGCTGAGTTCGAAGTGCTGAAGGCCTTTGTAGTGGGGATGATGGAGCGTTTGCACA [4076]

Rhino CTGAGGCCGAGTTCGAAGTGCTGAAGGCCTTTGTGGTGGGCATGATGGAACGCCTCCACA [4067]

Cat CCGAGGCTGAGTTCGAAATGCTGAAGGCCTTTGTGGTGGGCATGATGGAGCGTCTGCACA [3965]

Dog CTGAGGACGAGTTTGAAGTGCTGAAGGTCTTTGTGGTGGGTATGATGGAGCATCTGCACA [4054]

Human CCGAGGCTGAGTTTGAAGTGCTGAAGGCCTTTGTGGTGGACATGATGGAGCGGCTGCGCA [4078]

Galago CGGAGGCTGAGTTTGGGGTGCTGAAGGCTTTCGTGGTGGGCATGATGGAGCGGCTGTACA [4021]

Flying\_Lemur CCGAGGCAGAGTTTGAAGTGCTGAAGGCCTTCGTGGTGGGCATGATGGAGCGGCTGCGCA [4010]

Tree\_Shrew CAGAAGCAGAGTTTGAGGTGCTGAAGGGCTTCGTGGTGGACATGATGGAGCAGCTGCACA [3937]

Madagascar\_Hedgehog CCGAGGCCGAGTTTGAGGTGCTGAAGGCCTTTGTGGTGGGCATGATGGAGCGGCTGCACA [2797]

Golden\_Mole CAGAGGCTGAGTTTGAGATGCTGAAGGTCTTTGTGGTGGGCATGATGGAGCGGCTGCACA [2799]

[ 4330 4340 4350 4360 4370 4380]

[ . . . . . .]

Opossum TCTCTCAGAAACGCATCAGGGTGGCTGTGGTGGAATACCATGATGGCTCCCACTCCTACA [4112]

Kangaroo TCTCTCAGAGGCGCATCCGGGTGGCTGTTGTGGAATACCATGATGGTACCCACTCCTACA [4141]

Hedgehog TCTCACAGAAGCGCATTCGTGTGGCGCTGGTGGAGTACCATGAAGGCTCACACGCCTACC [3785]

Mole TCTCCCAGAAGCGGGTCCGCGTGGCGGTGGTGGA?TACCACGACGGCTCCCACGCCTACC [4056]

Sloth TCTCCCAGAAGCGGATCCGGGTGGGCCTGGTGGAATACCACGATGGCTCCCACGCCTACC [3928]

Pangolin TCTCGCAGAAGTGGATCCACGTGGCCGTGGTGGAGTACCACGACGGCTCCCACGCCTACA [3930]

Rat TCTCTCAGAAGCGCATCCGCGTGGCAGTGGTAGAGTACCATGATGGCTCCCATGCCTACC [4100]

Capybara TCTCCCAGAAGCGGATCCGGGTGGGCGTGGTGGAGTACCACGATGGCTCCCATGCTTACC [4042]

Rabbit TCTCGCAGAAGCGCATCCGCGTGGCCGTGGTGGAGTACCACGACGGTTCCCACTCCTACA [3810]

Round\_Eared\_Bat TCTCCCAGAAGCGGATCCGCGTGGCCCTGGTGGAGTACCACGAGGGCTCCCACGCCTACC [4011]

Flying\_Fox TCTCCCAGAAGCGGATCCGCGTGGCTGTGGTGGAGTATCATGACGGCTCTCACGCCTACC [3971]

Aardvark TCTCCCAGAAGCGGATCCGTGTGGCTGTCGTGGAATACCATGATGGCTCACACTCCTACA [4107]

Elephant\_Shrew TCTCTCAGAAGCGGATCCGTGTGGCCTTGATAGAATACCACGATGGCTCGCACTCCTACA [3836]

Hyrax TCTCCCAGAAGCGGGTCCGTGTGGCTGTGGTGGAGTACCATGATGGCTCGCACTCCTATA [3866]

Dugong TCTCCCAGAAGCGGATCCGTGTGGCCGTGGTGGAGTACCATGACGGCTCCCACTCCTACA [3911]

Elephant TCTCCCAGAAGCGGATCCGTGTGGCCGTGGTGGAGTACCACGATGGCTCGCACTCCTACA [3947]

Pig TCTCCCAGAAGCACATCCGCGTGGCGGTGGTGGAGTACCACGACGGCTCCCACGCCTACA [4099]

Cow TTTCCCAGAAACGCATCCGTGTGGCCGTGGTGGAGTACCATGATGGCTCCCATGCCTACC [4136]

Hippo TCTCCCAGAAGCGCATCCGCGTGGCCGTGGTCGAGTACCACGTTGGCTCCCATGCCTACA [3954]

Whale TCTCCCAGAAGCGCATCCGCGTGGCCGTGGTGGAGTACCACGACGGCTCCCACGCCTACA [3964]

Horse TCTCCCAGAAGCGGATCCGCGTGGCTGTGGTTGAGTACCATGATGGCTCCCACGCCTACA [4136]

Rhino TCTCCCAGAAGCGGATCCGCGTGGTCGTGGTGGAGTACCACGATGGATCCCACGCCTACA [4127]

Cat TCTCTCAGAAGCGGATCCGTGTGGCCGTGGTGGAGTACCATGACGGCTCCCACGCCTACA [4025]

Dog TCTCCCAGAAGCGGATCCGCGTGGCTGTGGTGGAGTACCACGACGGCTCCCACGCCTACA [4114]

Human TCTCCCAGAAGTGGGTCCGCGTGGCCGTGGTGGAGTACCACGACGGCTCCCACGCCTACA [4138]

Galago TCTCCCAGAAGCGGGTGCGGGTGGCCGTGGTGGAGTTCCACGATGGCTCTCATTCCTATA [4081]

Flying\_Lemur TCTCCCAGAAGTGGATCCGCGTGGCCGTGGTTGAGTACCACGATGGCTCCCACGCCTACA [4070]

Tree\_Shrew TCTCGCAGAAGTGGATCCGTGTGTCTGTGGTGGAGTACCACGACGGCTCCCACTCCTACA [3997]

Madagascar\_Hedgehog TCTCCCAGAAACGCATCCGGGTGGCCCTGGTGGAGTACCATGACGGCTCACACTCTTACA [2857]

Golden\_Mole TCTCTCAGAAGCGGATCCGTGTGGCCGTGGTGGAGTACCATGACGGCTCACATGCTTACA [2859]

[ 4390 4400 4410 4420 4430 4440]

[ . . . . . .]

Opossum TTGAACTGAAAGATCGGAAGCGGCCCTCAGAGCTTCGTCAGATTGCCAGTTCTGTGAGAT [4172]

Kangaroo TTGCATTGAAAGACCGGAAGCGGCCCTCAGAACTTCGTCGCATTGCCAGTTCCGTGAAGT [4201]

Hedgehog TGGACCTGCAGGACCACAAGCGGCCATCCGAGCTGCGGCGGATTGCCAGGCAAGTGCGCT [3845]

Mole TCGGCCTCTGGGACCGGAAGCGGCCCTCCGAGCTGCGGCGCATCACCAGGCAGGTCAGGT [4116]

Sloth TCGAGCTCAAGAACCGGAAACCGCCCTCGGAGCTGCGGCGCATCGCTAGCCAGGTGCGGT [3988]

Pangolin TCCAGCTCAAGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATCGCCGGCCAGGTGAAGT [3990]

Rat TTGAGCTCAGGGCCCGGAAGCGACCCTCAGAGCTTCGGCGCATCGCCAGCCAGATTAAGT [4160]

Capybara TTGAGCTCAAAGCCCGGAAGCGGCCCTCAGAGCTGCGGCGCATCGCCAGCCAGGTGAAGT [4102]

Rabbit TCAGCCTCAAGGATCGCAAGCGGCCCTCCGAGCTGCGCCGCATCGCCAGCCAGGTGAAAT [3870]

Round\_Eared\_Bat TCCAGCTCCGGGACCGGAAGCGGCCCTCCGAGCTGCGGCGCATCGCCAGCCAGGTGAAGT [4071]

Flying\_Fox TCGAGCTCAGGGACCGGAAGCGGCCCTCGGAGCTACGGCGTATCACCAGCCAGGTGAAGT [4031]

Aardvark TTGATCTCAAGGATCGGAAGCGGCCCTCGGAGCTGCGGCGCATTGGGGGGAAGGTCAAGT [4167]

Elephant\_Shrew TTGAGTTCAAGGACCGGAAGCGGCCATCGGACCTGCGGCGCATCGCTGGCCAGGTGAGGT [3896]

Hyrax TTGACCTCAGGGACCGGAAGCGGCCCTCAGAACTGCGACGCATCGCCAGTCAGGTCAAGT [3926]

Dugong TTGACCTCAGGGACCGGAAGCGGCCCTCAGAGCTTCGACGCATTGCTGGTCAGGTGAAGT [3971]

Elephant TCGACCTCAGGGACAGGAAGCAGCCTTCGGAGCTGCGGCGCATCGCTGGTCAGGTGAAGT [4007]

Pig TCTCGCTCCAGGACCGAAAGCGGCCCTCGGAGCTGCGGCGCATCGCCAGCCAGGTGAAGT [4159]

Cow TCGCGCTGCAAGACCGGAAACGGCCATCTGAGCTTCGGCGCATTGCCGGGCAGGTGAAGT [4196]

Hippo TCGCACTGAAGGACCGGAAGCGGCCGTCGGAGCTGCGGCGCATCGCCAGGCAAGTGAAGT [4014]

Whale TCGCACTGCAGGACCGGAAGCGGCCGTCGGAGCTGCGGCGCATCGCTGGGCAGGTGAAGT [4024]

Horse TCGAGCTCAGGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATTGCCAGCCAGGTGAAGT [4196]

Rhino TTGCACTCAGGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATTGCCAGCCAGGTGAAGT [4187]

Cat TCCABCTCAAGGACCGGAAGCGGCCCTCAGAGGTACGGCGCATTG?CAGCCAGGTGAAGT [4085]

Dog TCGAGCTCAAGGACCGGAAGCGACCCTCAGAGCTGCGGCGCATCACCAGCCAGGTGAAGT [4174]

Human TCGGGCTCAAGGACCGGAAGCGACCGTCAGAGCTGCGGCGCATTGCCAGCCAGGTGAAGT [4198]

Galago TTGGGCTCAAGGACCGGAAGCG?CCGTCAGAGCTGCGGCGCATTGCAAGCCAGGTGAAGT [4141]

Flying\_Lemur TCTCGCTCAAGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATCGCTGGCCAGGTGAAGT [4130]

Tree\_Shrew TCGACCTCAAGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATCGCCAGCCAGGTGAGGT [4057]

Madagascar\_Hedgehog TCGAACTCAAGGACCGGAAGCGGCCCTCGGAGCTGCGGCGCATTGCGGGCCAGGTGAAGT [2917]

Golden\_Mole TCGAACTCAGGGACCGGAAGCGGCCCTCAGAGCTGCGGCGCATTGCTGGACAGGTGAAGT [2919]

[ 4450 4460 4470 4480 4490 4500]

[ . . . . . .]

Opossum ATCCTGGCAGCAAAATGGCATCCATAAGTGAGGTATTGAAGTTTACCCTTTTCCATGTCT [4232]

Kangaroo ATGCTGGCAGCAAGGTGGCTTCCACCAGCGAGGTCCTGAAGTACTCCCTCTTCCATCTCT [4261]

Hedgehog ACGCGGGCAGCGAGCTGGCATACACCAGCGAGGCGCTCAAATACACGCTCTTCCAGGTGT [3905]

Mole ACGCGGGCAGCCAGGTGGCCTCCACCAGCGAGGTCTTGAAGTACACGCTGTTCCAGATCT [4176]

Sloth ACGTGGGCAGCCAGGTGGCCTCCGCCAGTGAGGTCTTGAAGTACACGCTGTTCCAGGTCT [4048]

Pangolin ACGCGGGCAGCGAGGTGGCCTCCACCAGCGAGGTCTTGAAGTACACGCTGTTCCAAATCT [4050]

Rat ACGTGGGCAGTCAGTTGGCCTCTACCAGTGAGGTTTTGAAGTACACACTGTTCCAGATCT [4220]

Capybara ATGTGGGCAGCGAGGTGGCCTCCACCAGTGAGGTCTTGAAGTACACGCTCTTCCAGATCT [4162]

Rabbit ATGCGGGCGGCCCGGTGGCCTCGACCAGTGAGGTCTTGAAGTACACGCTCTTCCATATCT [3930]

Round\_Eared\_Bat ACGCGGGCAGCACGGTGGCCTCCGCCACCGAGGTCCTCAAGTACACGCTCTTCCAAATCT [4131]

Flying\_Fox ACGCAGGCAGCTCGGTGGCCTCCACCAGTGAGGTCCTCAAGTACACGCTCTTCCAAATCT [4091]

Aardvark ACGTGGGCAGCCAGTTGGCCTCCACCAGTGAGATCTTGAAGTACACGATGTTCCAAATCT [4227]

Elephant\_Shrew ACGTGGGAAGCAATGTGGCTTCCACCAGTGAAGTTTTGAAGTATACGCTGTTCCAAGTGT [3956]

Hyrax ACGTGGGCAGCCAGTTGGCCTCCACCAGTGAGGTCTTGAAGTACACGGTGTTCCAAATCT [3986]

Dugong ATGTGGGAAGCCAGGTGGCCTCCACCAGTGAGGTCTTGAAGTACACGCTGTTCCAAATCT [4031]

Elephant ATGCAGGCAGCCAGGTGGCCTCCACCACTGAGGTCTTGAAGTACACGTTGTTCCAAATCT [4067]

Pig ACGCGGGCAGGCAGGTGGCTTCCATCAGCCAGGTTTTCAAGTACACGCTCTTCCAAATCT [4219]

Cow ATGCGGGCAGCGAGGTGGCTTCCACCAGCGAGGTCTTGAAGTACACGCTCTTCCAGATCT [4256]

Hippo ACGTGGGCAGCGAGGTGGCCTCCACCAGTGAGGTCTTGAAGTACACGCTCTTCCAGATCT [4074]

Whale ACGCGGGCAGTGAGGTGGCCTCCACCAGCGAGGTCTTGAAGTACACGCTCTTCCAGATTT [4084]

Horse ACGCGGGCAGCGAAGTGGCCTCCACCACTGAGGTCTTAAAGTACACGCTGTACCAAATCT [4256]

Rhino ACGCAGGCAGCGAGGTGGCCTCCACCAGTGAGGTCTTGAAGTACACGCTGTTCCAAATCT [4247]

Cat ATGCAGGCAGTGAGGTGGCCTCCACCAGCGAGGTCTTGAAGTACACTCTTTTCCAGATCT [4145]

Dog ACGCGGGCAGCGAGGTGGCCTCCACCAGTGAGGTCTTAAAGTACACGCTGTTCCAGATCT [4234]

Human ATGCGGGCAGCCAGGTGGCCTCCACCAGCGAGGTCTTGAAATACACACTGTTCCAAATCT [4258]

Galago AT?CGGGCAGCCAGGTGGCCTCCACCAGCGAGGTTTTGAAGTACACGCTATTCCAAATCT [4201]

Flying\_Lemur ACGCGGGCAGCCAGGTGGCCTCCCCCAGTGAGGTCTTGAAGTACACGCTCTTCCAGATCT [4190]

Tree\_Shrew ATGCAGGCAGCCAGGTGGCTTCCATCAGTGAGGTCCTCAAGTACACCCTAA?CTCTTTGT [4117]

Madagascar\_Hedgehog ACGCGGGCAGCCAGGTGGCTTCCACCACCGAGGTCCTGAAGTACACGCTGTTCCAGGTCT [2977]

Golden\_Mole ACGCAGGCAGCCAGGTGGCTTCCACCAGTGAGGTCTTAAAGTACACGCTGTTCCAAATCT [2979]

[ 4510 4520 4530 4540 4550 4560]

[ . . . . . .]

Opossum TTGGCAAGGCTGACCGCCCTGAAGCATCTCGGATTGCCTTGCTTCTGACGGCCAGTGGGG [4292]

Kangaroo TTAGCAAAGCTGACCGCCCTGAAGCGTTTCGAATTGCCTTGCTTCTGACAGCCAGTGAAG [4321]

Hedgehog TCAGCAAGTTGGATCGGCCTGAAGCGGCCCGGGTGGTCCTGCTGCTGACCGCCAGCACTG [3965]

Mole TCAGCAAGGTCGACCGCCCCGAAGCCTCCCGCGTCGCCCTGCTGCTGACGGCCAGCCAGG [4236]

Sloth TCGGCAAGGCTGACCGCCCCGAGGCCTCCCGCATCGCCCTGCTCCTGACGGCCAGCCAGG [4108]

Pangolin TTGGCAAGGTCGACCGCCCCGAAGCCTCCCGCATCGCCCTGCTCCTGACGGCCAGCCAGG [4110]

Rat TTGGCAAAATTGACCGTCCTGAAGCCTCCCGTGTCATTCTGCTCCTGACGGCTAGCCAGG [4280]

Capybara TTGGCAAAATCGAGCGCCCTGAAGCCTCTCGCATTGTGCTACTCCTGACTGCCAGTTCAG [4222]

Rabbit TCAGCAATGTGGACCGGCCCGAAGCCTCCCGCATTGCCCTGCTCCTGTCTGCCAGCCAGG [3990]

Round\_Eared\_Bat TCGGCAAGATTGACCGCCCCGAGGCCTCCCGCGTTGCTCTGCTCCTGACGGCCAGCCAGG [4191]

Flying\_Fox TTGGCAGGGTCGACCGCCCCGAGGCCTCCCGCGTTGTCCTGCTCCTCACCGCCAGCCAGG [4151]

Aardvark TTGTCGAGAATGGCCGCCCCGAAGCCTCCCGTACTGCTGTGCTCCTGACAGCCAGCCGGG [4287]

Elephant\_Shrew TTAGCAAGACAGATCGCCCAGAGGCCTCCCGCATTGCCCTGCTCGTGACAGCCAGCCAGG [4016]

Hyrax TTGGCAAGAATGACCGCCCCGAAGCCTCCCGTGCTGCTGTGCTCCTGACAGCCAGCCAGG [4046]

Dugong TTGGCAAGGCTGACCGCCCCGAAGCCTCCCGCATTGCCCTGCTCCTGACAGCTAGCCAGG [4091]

Elephant TTGGCAAGGCCGATCGCCCAGAAGCCTCCCGTATTGCCCTGCTCCTGACAGCCAGTGAAG [4127]

Pig TTGGCAGGGTCGACCGGCCCGAAGCCTCCCGTATAGCCCTGCTGCTCATGGCCAGCCAGG [4279]

Cow TCGGCAGGATTGACCGGCCTGAGGCCTCTCGCGTGGCCCTGCTGCTTACGGCCAGCCAGG [4316]

Hippo TCAGCAAGATCGACCGGCCTGAAGCCTCCCGCGTGGCCCTGCTCCTCTCGGCCAGCCAGG [4134]

Whale TCAGCAAGATTGACCGGCCTGAGGCCTCCCGCGTGGCCCTGCTGCTGACGGCCAGCCAGG [4144]

Horse TTGGCAAGATTGACCGCCCAGAAGCCTCTCGCATCGCCTTGCTCCTGATGGCCAGTCAGG [4316]

Rhino TTGGCAAGATTGACCGCCCCGAAGCCTCTCGCATCACCTTGCTCCTGATGGTCAGTCAGG [4307]

Cat TTGGTAAGATTGATCGCCCTGAAG?ATCCCCCATTGCCCTGCTCCTGATGGCCACCCAGG [4205]

Dog TTGGCAAGATCGACCGCCCGGAAGCGTCTCGCATTGCCCTGCTCCTGATGGCCAGCCAGG [4294]

Human TCAGCAAGATCGACCGCCCTGAAGCCTCCCGCATCGCCCTGCTCCTGATGGCCAGCCAGG [4318]

Galago TCATCAAGATTGACCGCCCTGAAGCCTCCCGCATCACCCTGTTCCTG?CGTCCAGCCAGG [4261]

Flying\_Lemur TTGGCAAGATCGACCGCCCCGAAGCCTCCCGAATTGCCCTGCTCCTGACGGCCAGCCAGG [4250]

Tree\_Shrew TAGGAAACATCGACCGGCCGGAGGCCTCCCG?GTCGCTCTGCTCCTGACAGCCAGCCAGG [4177]

Madagascar\_Hedgehog TCAGCAAGGTGGACCGCCCCGAAGCCTCCCGCGTGGTCCTGCTCCTGACAGCCAGCGAGG [3037]

Golden\_Mole TTAGCAAAGCTGACCGCCCGGAAGCCTCCCGCATTGTCCTGCTCCTGACAGCCAGTGAGG [3039]

[ 4570 4580 4590 4600 4610 4620]

[ . . . . . .]

Opossum AGCCCTTGCCCATGGG?AGGAATATGGTCCACTATGCCCGAAGTCTGAGCGAGAAGAAG- [4351]

Kangaroo AGCCCCCTCCCATGGCCAGGAGTATAGCCCGCTATGTCCAAGGCCTGAAGAAGAAGAAG- [4380]

Hedgehog AGCCCCCAGGCCAGATCCGCAGCCTGGTGCGATACGCGCAGGGCCTCCGGAAGAAAAGG- [4024]

Mole AGCCCCCGCGCATGGCCCGGAACTTGGTCCGCTACGTCCAGGGCCTGAAGAAGAAAAAG- [4295]

Sloth AGTCCCCGCAGATGGCCCGGAACCTGGTCCGCTATGTGCAGGGAATGAAGAAGAAGAAG- [4167]

Pangolin AGCCCCCGAGGTTGGCCCGGAACCTGGTCCGCTACGTGCAGGGCCTGAAGAAGAAGAAG- [4169]

Rat AGCCCCAACGGATGGCTAGGTATTTCACCCGCTATCTCCAAGGTTTCAAGAAGAAGAAG- [4339]

Capybara AGCCCAAACGGATGACCCGGAATTTGCTCCGCAGTGTTGAGGGCCTGAAGAAGAAAAAA- [4281]

Rabbit AGACCCCGCGCATGGTCCGCAACTTGGTCCGCTACGCCCAGGGCCTGAAGAAGGAGAAA- [4049]

Round\_Eared\_Bat AACCCCCGAGGATGGCCCGGAACTTGGCCCGTTACGTCCAGGGCCTGAAGAAGAAGAAG- [4250]

Flying\_Fox AGCCCCCGAAGCTGTCCCGGAACTTGGTCCGCTATGTCCAGGGCCTGAAGAAGAAGAAG- [4210]

Aardvark AACCCCCACGGATGGCCCGCAACTTGGGCCGCTATGTCCAGGGCCTGAAGAAGAGGAAG- [4346]

Elephant\_Shrew AGCCCCCACAGATGTCCCGGAACTTCGCTCGCTATGCCCAGGACCTGAAGAAGAAGAAG- [4075]

Hyrax AACCCCCACGGATGGCACGGAATTTGGTCGCATGTGC---GGAACTGAAGAAGAAGAAG- [4102]

Dugong AGCCCCCACGGATGGCCCGGAACTTGGTCCGCTATGTGCAGGGCCTGAAGAAGAAGAAG- [4150]

Elephant AGCCCCCACGGTTGGCCCGGAACTTGGCCCGATATGTCCAGGGCCTGAAGAAGAAGAAG- [4186]

Pig AGCCACGCCGGCTGGCCCAGAACTTGGCCCGCTACCTCCAGGGCCTGAAGAAGAAGAAG- [4338]

Cow AACCCCCCAGGCTGGCCCGGAACTTGGTCCGCTACGTCCAGGGCCTGAAGAAGAAGAAG- [4375]

Hippo AGCCCCCCAAGATGTCTCGGAACTTGGTCCGCTACGTCCAGGGCCTGAAGAAGAAGAAG- [4193]

Whale AGCCCCCCAGGCTGGCCCGGAACTTGGTCCGCTACGTCCAGGGCCTGAAGAAGAAGAAG- [4203]

Horse AGCCCCCGAGGTTGGCCCGGAACTTGGTCAACTACGTCCGGAACCTGAAGAAGAAGAAGC [4376]

Rhino AGCCCCCGAGGTTGGCCCGGAACTTGGTCCGCTACATCCAGGCCTTGAAGAAGAAGAAG- [4366]

Cat ACCCCCAGAGGCTGGACCGGAATTTGGTCCGCTACGTTCAGGGGCTGAAGAAGAAGATA- [4264]

Dog AGCCCTCAAGGCTGGCCCGGAATTTGGTCCGCTATGTGCAGGGCCTGAAGAAGAAGAAA- [4353]

Human AGCCCCAACGGATGTCCCGGAACTTTGTCCGCTACGTCCAGGGCCTGAAGAAGAAGAAG- [4377]

Galago AGCCTCCACGGATGGTCGGGACCTTGGTCCGCTACGTCCAGGTCCTGAAGAAGAAGAAG- [4320]

Flying\_Lemur AGCCACCCCGGTTGGCCCGGAACTTGGTCCGCTCCGTCCAGGGCTTGAAGAAGAAGAAG- [4309]

Tree\_Shrew AGGCCCCAGGGATGGCCCGGAACTTGGTCCGCTACGTACAGGGCCTAAAGAAGAAGAAG- [4236]

Madagascar\_Hedgehog AGCCACCCCGGCTGGCCCGGAACTTGGCCCGCTATGCACAGGGCCTGAAGAAGAAGAAG- [3096]

Golden\_Mole AGCCTCCGCGGATGGCTCGGAACTTGGTCCGCTATGTGCAAGGCCTGAAGAAGAAGAAG- [3098]

[ 4630 4640 4650 4660 4670 4680]

[ . . . . . .]

Opossum --GTCACTGTGATTCCAGTGGGCTTAGGGCCCCATGTTAACCTTAGGCAGATTCATAACA [4409]

Kangaroo --GTCATTGTGATCCCAGTAGGCTTAGGGCCCCATGCTAGCCTTAAGCAGATTCGTCTCA [4438]

Hedgehog --GTGGTGGTGCTGCCCGTGGCCCTCGGGCCCCACGCCAGCCTCAAGCAGATCCGCCTCA [4082]

Mole --GTCATCGTGATCCCCGTTCGCATCGGGCCCCACGCCAACCTCAAGCAGATCC??CTCA [4353]

Sloth --ATCATCGTCATCCCGGTGGGTATCGGGCCCCACGCCAACCTCAAGCAGATCCGCCTCA [4225]

Pangolin --GTCACTGTGATCCCGGTGGGCATCGGGCCCCACGCCAACCTCAAGCAGATCCGCCTCA [4227]

Rat --GTCATTCTGATCCCTGTGGGCATTGGGCCGCACGCCAACCTCAAACAGATCCGCCTCA [4397]

Capybara --GTTATCTTGATGCCAGTGGGCATCGGACCGCATGTCAACCTTCAGCAGATCCGTCTCA [4339]

Rabbit --GTCATTGTGATTCCAGTGGGCATCGGGCCACATGTCAGCCTCAGGCAGATCCACCTCA [4107]

Round\_Eared\_Bat --GTCATCGTGGTCCCAGTGGGCATTGGGCCGCACGTGAACCTCAAGCAGATCCSCCTCA [4308]

Flying\_Fox --GTCACCATGGTCCTAGTGGG?ATTGGGCCCCACGCCAACCTCAAGCAGATCCGCCTCA [4268]

Aardvark --GCCATTGTGATCCCCGTGGGCATTGGGCCCCATGCCAGCCTCAAGCAGATCCGCCTCA [4404]

Elephant\_Shrew --GTCATCGTGATCCCTGTGGGCATTGGGCCTCATGCCAACATCAAGCAGATCCAGTTCA [4133]

Hyrax --GTCATCATGATCCCGGTGGGCATTGGACCCCATGTCAACACTAAGGAGATTCGCACTA [4160]

Dugong --GTCATTGTGATCCCGGTGGGCATTGGACCCCATGCCAACATCAAGCAAATCCGTCTTA [4208]

Elephant --GTTATTGTGATCCCGGTGGGCATTGGACCTCATGCCAGCCTCAAGCAGGTCCGCCTTA [4244]

Pig --GTCACCGTGATTCCGGTGGGCATCGGACCCCACGTCAGCCTCAAGCAGATCCGCCTCA [4396]

Cow --GTCTCCGTGGTCCCCGTGGGCATCGGGCCCCACGCCAGCCTCAAGCAGATCCGCCTCA [4433]

Hippo --GTCATTGTG?TCCCCGTGGGCATTGGGCCCCACGTCAGCCTCAAGCAGATCCGCCTCA [4251]

Whale --GTCGTCATGGTCCCTGTGGGCATCGGGCCCCACGCCAGCCTCAGGCAGATCCGCCTCA [4261]

Horse AGGTGATTGTGATCCCAGTGGGCATTGGGCCCCATGCCAATGTCATACAGATCCGCCTCA [4436]

Rhino --GTCATCGTGATCCCAGTGGGCATTGGGCCCCATGCCAACCTCAAACAGATCCGCCTCA [4424]

Cat --GTCATCATGATCCCGGTGGGCATCGGGCTCCATGCCAACCTCAAGCAGATCCACACCA [4322]

Dog --GTCATTGTCATCCCTGTGGGCATCGGGCCCCACGCCAGCCTTAAGCAGATCCACCTCA [4411]

Human --GTCATTGTGATCCCGGTGGGCATTGGGCCCCATGCCAACCTCAAGCAGATCCGCCTCA [4435]

Galago --GTCATCGTGATCCCTGTGGCCATTGGGCCCCATGCCAGTGACAGTCAGATCCACCTCA [4378]

Flying\_Lemur --GTCATTGTGATCCCGGTGGGCATTGGGCCCCATGCCAGCCTTAAGCAGATCCGTCTCA [4367]

Tree\_Shrew --GTCGTCATGGTCCCAGTGAGCATCGGGCCGCACACCAACCTCAGGCAGATCCGCCTCA [4294]

Madagascar\_Hedgehog --GCCATCGTGATCCCAGTGGGCCTCGGGCCCCACGCCAGCCTCAAGCAGCTCCGCCTCA [3154]

Golden\_Mole --GTTATTGTGATCCCGGTGGGCATTGGGCCCCATGCCAGCCTCAAACAGATCCGTCTCA [3156]

[ 4690 4700 4710 4720 4730 4740]

[ . . . . . .]

Opossum TTGAGAAGGTGGCACGTGAAAACAAGGCTTTTTTGCTTAGTGGTGTGAATGAGCTAGAGC [4469]

Kangaroo TTGAGAAGCAGGCTCCAGAAAACAAGGCCTACTTGCTTAGTGGTGTGAATGAGCTGGAAC [4498]

Hedgehog TC??????????????AGAGAACAAGGTCTTCCTGCTCAGCAGTGTGGACGAGCTGCAGC [4142]

Mole TCGAGAAGCAGGCCCCCGAGAACAAGGCCTTTGTGTTCAGCAGCGTGGGCGAGCTGCAGC [4413]

Sloth TTGAGAAGCAGGCCCCGGAGAACAAGGCCTTCGTGCTGAGCAGTGTGGACGAACTGGAGC [4285]

Pangolin TTGAGAAGCAGGCCCCTGAGAACAAGGCCTTTTTGCTCAGCAGTGTGGACGAGCTGGAGC [4287]

Rat TTGAGAAGCAGGCCCCTGAGAACAAGGCCTTTCTGCTCAGTGGGGTGGATGAGCTGGAGC [4457]

Capybara TTGAGAAGCAGGCCCCTGAAAACAAGGCCTTCTTGCTTAGCGGGTTGGATGAGCTGGAGC [4399]

Rabbit TTGAGAAGCAGGCCCCCGAGAACAAGGCCTTCGTGCTGAGTGGTGTGGATGAGCTGGAGC [4167]

Round\_Eared\_Bat TCGAGAAGCAGGTCCCTGAGAACAAGGCCTTTGTGATCAGCAGTGTGGACGAGCTGGAGC [4368]

Flying\_Fox TCGAGAAGCAGGCCCCTGAGAACAAGGCCTTTGTGCTCAGTGGTGTGGACGAGCTGGAGC [4328]

Aardvark TTGAGAAGCAAGCCCCTGAGAACAAGGCCTTTGTGTTTAGCAGTGTGGATGAATTGGAAC [4464]

Elephant\_Shrew TTGAGAAGCAAGCCCCTGAGAACAAGGTCTTTAAGCTCAGCAGTGTAGATGAGCTGGAAC [4193]

Hyrax TTGAGAATATGGCCCCCGAGAACAAGGCCTTCCTGCTTAATAGTGTAGACGAGCTGGAGC [4220]

Dugong TCGAGAAGCAGTCCCCTGAGAACAAGGCCTTTGTGCTTAGCAGTGTGGACGAGCTAGAGC [4268]

Elephant TCGAGAAGCAGGCCCCTGAGAACAAAGCCTTTGTGCTTAGCAGCGTGGACGAGCTGGAGC [4304]

Pig TCGAGAAGCAGGCCCCGGAGAACAAAGCCTTTGTGGTCAGCGGTGTGGACGAGCTGGAGC [4456]

Cow TTGAGAAGCAGGCACCTGAGAACAAAGCCTTTGTGCTAAGTGGCGTGCACGAGCTGGAGC [4493]

Hippo TTCAGAA?CAGGCCCCCAGGAACAAAGCCTTTGTGCTCAGCGGTGTGGACGAGCTGGAGC [4311]

Whale TCGAGAAGCAGGCCCCCGAGAACAAAGCCTTTGTGCTCAGCAGTGTGGAGGAGCTGGAGC [4321]

Horse TCGAGAAGCAGGCCCCAGAGAACAAGGCCTTTCTCCTCACTGGTGTGGACGAGCTGGAGC [4496]

Rhino TCGAGAAGCAGGCTCCAGAGAACAAGGTCTTTGTGCTCAGTGGTGTGGACGAGCTGGAGC [4484]

Cat TTGAGAAGCAGGCCCCCGAGAACAAGGCCTGTGTGATCAGTGGTGTGGACGATCTGGACC [4382]

Dog TAGAGAAGCAGGCCCCTGAGAACAAGGCCTTTGTGTTCAGTGGTGTGGATGAGTTGGAGC [4471]

Human TCGAGAAGCAGGCCCCTGAGAACAAGGCCTTCGTGCTGAGCAGTGTGGATGAGCTGGAGC [4495]

Galago TTGAGAAGCAGGCCCCAGAGAACAAGGCATTTGTGCTCAGCAGCGTGGATGAGCTGGAAC [4438]

Flying\_Lemur TCGAGAATCAGGCCCCCGAGAACAAGGCCTTTGCGCTCAGCAGCGTGGATGAACTGGAGC [4427]

Tree\_Shrew TCGAGAAGCAGGCCCCCGAGAACAAGGCCTTCCTGCTCAGCGGTGTGGACGAGCTGGAGC [4354]

Madagascar\_Hedgehog TCGAGAAGCAGGCCCCCGAGAACAAGGCCTTCTTGCTCAGCAGCGTGGATGAGCTGGAGC [3214]

Golden\_Mole TAGAGAAGCAGGCACCTGAGAACAAAGCCTTTGTGTTTAGCAGTGTGGATGAGCTGGAGC [3216]

[ 4750 4760 4770 4780 4790 4800]

[ . . . . . .]

Opossum AAAGGCGGGATGACATCTTGGGCTACTTCTGTGACCTGGTTCCTGATATTCCTGCCCCTA [4529]

Kangaroo AAAGGCGGGATGAGATCCTGGGCTACCTCTGTGATCTGGTACCTGATATTCCTGTTGCTA [4558]

Hedgehog AGCGCAGGGACGAGATCCTCAACTTCCTCTGCGACCTGGCCCCTGAGCCCCCCGGCCCCA [4202]

Mole GGCACAGGGACGACATCATCAGCCACCTCTGCGACCTGGCCCCCGACGCGCCGGCCCCCA [4473]

Sloth GGCGCCGGGACGAGATCATTAGCTACCTCTGTGACCTCGCCCCCGAGCCGCCCGCCCCCT [4345]

Pangolin AGTGGAGGGACGAGATAATCAACTACCTCTGTGACCTTGCCCCCGAAGCTCCCCCCCCTA [4347]

Rat AGAGAAGAGATGAGATAATTAACTACCTCTGTGACCTTGCCCCCGAGGCCCCAGCCCCTA [4517]

Capybara AGTGGAGGGATGAGATTATCAACTACCTCTGTGACCATGCGCCTGAGGCCCCTGCCCCAA [4459]

Rabbit AGCGGAGGGATGAGATTATCAGCTACCTCTGCGACCTGGGCCCTGAGGCCCCTGTTCCTA [4227]

Round\_Eared\_Bat AGCGAAGGGACGAGATTATCAGCTACCTCTGTGACCTTGCTCCCGAAGTGCGGGCACCTA [4428]

Flying\_Fox AGCGGAGGGACGAGATCATCAGCTACCTCTGTGACCTTGCTGCTGAAGCGCCCGCCCCTA [4388]

Aardvark AGAGAACGGATGAGATTATCAACTATCTCTGTGACCTGGCCCCTGAAGCGCCAGCCCCAA [4524]

Elephant\_Shrew AGAGGAGGGATGAGATCATTAGTTACCTCTGTGACCTGGCTCCAGAGCCACCTCCCCCAA [4253]

Hyrax AGAGAAGGGATGAGATTGTCAACTACTTCTGTGATCTGGCGCCTGAAGCACCACCCCCAA [4280]

Dugong AGAGAAGGGATGAGATTGTCAACTTCCTCTGTGACCTGGCCCCTGAAGTGCCAGCCCGAA [4328]

Elephant AGCGAAGGGATGAGATTATCAACTACCTCTGTGACCTGGCCCCTGAAGCGCAAGCCCCAA [4364]

Pig AGCGCAAGAACGAGATCATCAGCTACCTCTGCGACCTCGCCCCGGAAGTGCCCGCCCCTA [4516]

Cow AGCGGATGGACGATATTGTCGGCTACCTCTGCGACCTCGCCCTCGAGGTGCCTGCCCCGA [4553]

Hippo AGCGGAGGGACGAGATCATCAGCTACCTCTGCGACCTCGCCCCTGAAGTGCCCGCCCCCA [4371]

Whale AGCAGAGGGACGAGATCATCAGCTACCTCTGCGACCTCGCCCCCGAAGCGCCGGCCCTCA [4381]

Horse AGCGAAGGGACGACATTATCAGTTACCTCTGTGACCTTGCCCCCGAACCACCTGCCCCTA [4556]

Rhino AGCAAAGGGACGAGATTATCAGTTACCTCTGTGACCTTGCCCCCGAACCACCTGCCCCTA [4544]

Cat ACCAAAGGGATAAAATTATCAACTACCTCTGTGACCTTGCCCCCGAAGCGCCTGCCCCTA [4442]

Dog AGCGAAGGGATGAGATTATCAACTACCTCTGTGACCTTGCCCCCGAAGCACCTGCCCCTA [4531]

Human AGCAAAGGGACGAGATCGTTAGCTACCTCTGTGACCTTGCCCCTGAAGCCCCTCCTCCTA [4555]

Galago AGTGGAGGGACGAGATTATCAGCTACCTCTGTGACCTTGCCCCTGAAGCCTTGCCCCCAA [4498]

Flying\_Lemur AGCGAAGGGACGAGATTATCAGCTACCTCTGTGACCTTGCCCCTGAGGCCCCTGCCTCCA [4487]

Tree\_Shrew AGCGGAGGGATGAGATCATCAGCTACCTCTGTGACCTGGCCCCCGAGCCCCCTGCACCCA [4414]

Madagascar\_Hedgehog AGAGGAGGGACGAGATTATCAACTACCTCTGCGACCTGGCACCCGAAGCCCCAGCCTCAA [3274]

Golden\_Mole AGAGAAGGGATGAGATTATCAACTACCTCTGTGACCTGGCACCGGAAGCACCAGCTCCAA [3276]

[ 4810 4820 4830 4840 4850 4860]

[ . . . . . .]

Opossum CC------ATCCCCTCCCAGAAG---ACAAAGGTTACTGTGAGTCCAGAGCTCTTGACAT [4580]

Kangaroo CT------GTCCCCTCCCAGATA---GCCCAGGTTACTGCAAGTCCAGAGCTCTTGGCAT [4609]

Hedgehog CC------CGGCCGCCCCCGCCTGCTGCACAGGTCACCCTGGCCCCCGAGCTCCCGCGTG [4256]

Mole CC------CGGCCCCCGCCCATA---GCTCAAGTCACCGTGGGGCCAGAGCTCCTGGGGG [4524]

Sloth CC------GCGGCAGCCCCTGTG---GCACAGGCCACCGTGGGTGCCCCTGGTCTCGGGG [4396]

Pangolin CT------CAGCCTCCCCCTGTG---GCACAAGTCACCGTGGGCCCGGAAGTCGTGGGGG [4398]

Rat CG------AAGCCTCCACAGGTA---GCACACATCACTGTGAGCCCTGGTATCTCTGGGG [4568]

Capybara CT------CAGCACACTCAGGTG---ACACAGGTCACTGTGGGTCCAGGGCTCTCGGAGA [4510]

Rabbit CT------CAGCGCCCGCCCACA---GCCCGTGTCACCGTGAGCCCAGGGCAGTTGGGGG [4278]

Round\_Eared\_Bat CG------CAGTCCCCGCCTATG---GCACAAGTCACTGTGGGTCCAGAGCACCTGGGGG [4479]

Flying\_Fox CT------CAGCCCTCACCTGTG---GCCCAGGTCACTGTGGGTCCGGAGCTCTTGGGGG [4439]

Aardvark CT------CAGTTCCCCCCCATG---GCACAAGTCACTGTGAGTCCTGGTCCCTTGGGGC [4575]

Elephant\_Shrew CT------CAACCCCCCAAAGCA---GCACAAGTCACTGTGGGTCCA------CTAGGAA [4298]

Hyrax CT------CATCCGCCTGACATG---GCAAAAGTCACAGTGGTTCCTGACCTCTTGGAAA [4331]

Dugong CT------CAGCCTCCCAGCATG---GCACAAGTCACAGTGGGTCCTGGCCTCTTGGGGG [4379]

Elephant CT------CAGCACCCCCATGTG---GCAAAAGTCACAGTGGGCCCCGACCTCTTAGGAG [4415]

Pig CG------CGGCGCCCCCTAGTG---GCCCAAGTCACTGTGGCGCCTGAGCTCCCCGGGG [4567]

Cow CCCTGACGCAACATCCCCTCGCC---GCACAGGTCACTGTGGGCCCGCAGCTCCTGGGTC [4610]

Hippo CG------CGGCGCCCGCTCGTG---GCCCAGGTCACCGTAGTGCCCGAGCTCCCGGGGA [4422]

Whale CG------CAGCGCCCGCTCACG---GCCCAGGTCACCGTGGCGCCGGAGCTCCCGGGGA [4432]

Horse CT------CAGCGCCCCCGTATG---CCACAAGTCACCATGAGTCCAGAGCACTCAGTAA [4607]

Rhino CT------CAGCGCCCCCGTACA---GCACAAGTCACTGTGCGTCCGGAGCTCTGGGGGG [4595]

Cat CC------CAGCATCCCCCTATG---GTACCAGTCACTGTGGGTCCAGGGCTCATGGGGG [4493]

Dog CT------CAGCACCCCCCAATG---GCCCAGGTCACGGTGGGTTCGGAGCTGTTGGGGG [4582]

Human CT------CTGCCCCCCCACATG---GCACAAGTCACTGTGGGCCCGGGGCTCTTGGGGG [4606]

Galago CG------CCTACTCCCCACATG---GCACAAGTCACAGTGGGTCCAGGGCTCCTGGGGA [4549]

Flying\_Lemur GG------CAGTCCCCCAACATG---GCACAGGTCACTGTGGGTCCAGGGCCCTTGAGGA [4538]

Tree\_Shrew CC------CGGCCCCCCAGCGTG---GCACAGGTCACGGTGAACCCAGGGCTCTTGCAGG [4465]

Madagascar\_Hedgehog CT------CAGCCCCCCGACATG---GCCCAAGTCACTGTGGGTCCTGGCCTTTCGAAGG [3325]

Golden\_Mole CT------CAGCCCCCTGACATG---GCACAGGTCACTGTGGGTCCTGGCATCTTGGGAG [3327]

[ 4870 4880 4890 4900 4910 4920]

[ . . . . . .]

Opossum CCCCAACTTCTATC---CCCAGTAAA---CACATGGTCCTGGATGTAGTGTTTGTGCTAG [4634]

Kangaroo CCCCAACCTCTCTA---CACAGTAGA---CACATGATTCTGGATGTGGTGTTTGTGCTAG [4663]

Hedgehog GC?????????????????????AGAGAAACCCTGGTCCTGGACGTGGTGTTCATGCTGG [4316]

Mole TTTCGGCCCCGGGC---CCCAAGCGGAACTCCTTGGTCCTGGATGTGGTGTTTGTTGTGG [4581]

Sloth GTCTTGTCCTGGGA---CCCAAGGGGAACTCTGTGGTTCTGGATGTGGTGTTTCTCCTGG [4453]

Pangolin TCTCATCACCGGGA---CCCCAGAGGAGATCCATGGTTCTGGATGTGGTGTTTGTCCTGG [4455]

Rat TTTCATCACCAGGA---CCCAAAAGGAAGTCTCTGGTTCTGGATGTGGTGTTTGTCCTGG [4625]

Capybara TTTTGTCCCCAGGA---CCTGAGAGAAAGTCCATGGTTCTGGATGTGGTATTTGTCCTGG [4567]

Rabbit TCTCGCCCCAGGGC---CCCAAGCGGTGCTCCATGGTTCTGGATGTGGTGTTTGTCCTGG [4335]

Round\_Eared\_Bat CGTCATCCCTGGGG---CCCAAGCGGAACTCCATGGTTCTGGATGTGGTGTTTGTTCTGG [4536]

Flying\_Fox TTTTGTCCCAGGGA---CCCAAGAGAAACTCCATGGTTCTGGATGTGGTGTTTGTTCTGG [4496]

Aardvark TTTCACCTCTGGGA---CCCACAAGGAGCTCCATGGTTCTGGATGTGGTGTTTGTCTTAG [4632]

Elephant\_Shrew CTATACTGGCAGGG---CCCACAAGGCCCTCCATGGTCCTGGATGTGGTGTTTGTTCTGG [4355]

Hyrax TTCCTCCTTTGGGG---CCTACAAGGAGCTCCATCGCCCTGGATGTGGTGTTTCTCCTGG [4388]

Dugong TTTCTTCTTTGGGG---CCCACTGGGAGCTCCATGGTCCTGGATGTGGTGTTTCTCGTGG [4436]

Elephant TTTCTCCCGTGGGG---CCCACAAGGAGCCCTAAGCCCCTGAATGTGGTGTTTCTCCTGG [4472]

Pig TTTCAACGCTCGAA---CCCAAGAAGAGA---ATGGTCTTGGATGTGGTGTTTGTGCTGG [4621]

Cow CTTCGCTGCCGGGA---CCCAAGAGGAGCTCTGTGGTCCTGGATGTGGCATTCCTCCTGG [4667]

Hippo TTTCAACGCAGGGA---CCCCAGAGGCGCTCCATGGTCCTGGACGTGGCATTCCTGCTGG [4479]

Whale CGTCGACGCTGGCA---CCCAGGAGGACCTCCGTGGTCCTGGATGTGGCATTCCTCCTGG [4489]

Horse CCTCGTCACTGGCA---CCCAAGAGGAACTCCATGGTTCTGGATGTGGTGTTTGTCCTGG [4664]

Rhino TTTTGTCACTGGGA---CCCGAGAGGAAGTCCATGGCTCTGGATGTGGTATTTGTCCTGG [4652]

Cat TTTCATCCTCGGGA---CCC?AAAGGAACCCCACAGTTCTGGACGTGGTGTTTGTCCTGG [4550]

Dog TTTCATCTCCAGGA---CCCAAAAGGAACTCCATGGTCCTGGATGTGGTGTTTGTCCTGG [4639]

Human TTTCGACCCTGGGG---CCCAAGAGGAACTCCATGGTTCTGGATGTGGCGTTCGTCCTGG [4663]

Galago TTTCACCGTCTGGA---CCCAAGAGAAACTCCATGGTTCTGGATGTGGCATTCGTCCTGG [4606]

Flying\_Lemur TTTCACCGTTAGGA---CCCAGTAGGAGCTCCATGGTTCTGGACGTAGTGTTTGTCTTGG [4595]

Tree\_Shrew TTTCACCCCTGGGA---CCCAAGAGGAACTCCATGGTTCTGGACGTGGTGTTTGTCCTGG [4522]

Madagascar\_Hedgehog ACCCATCCCTGGGG---CCCACGAGGAAGTCCCTGGCCCTGGATGTGGCATTTGTCCTGG [3382]

Golden\_Mole TTTCGTCCCCAGGG---CCCACAAGGAGCTCCATGATCCTGGATGTGGTTTTTATCCTGG [3384]

[ 4930 4940 4950 4960 4970 4980]

[ . . . . . .]

Opossum AAGGCTCAGACAAAATTGGTGAAGCCAACTTCAACAAGACAAAGGAGTTTATGGAGCAGG [4694]

Kangaroo AAGGCTCGGACAAAATCGGTGAAGGCAACTTCAACAAGATCAAGGAGTTCATGAAGCAGG [4723]

Hedgehog AAGGCTCTGACAGCATTGGGGAAGCCAACTTCAACCGCAGCAGGGACTTCCTGGAGCAGG [4376]

Mole AAGGCTCGGACAGCATCGGCGAGGGCAACTTCAACAGGAGCAGGGAGTTCCTGGAGCAGG [4641]

Sloth AAGGGTCGGACCAGATCGGCGAGGCTGGCTTCAACCGGAGCAGGGAGTTCGTGGAGGAGG [4513]

Pangolin AAGGGTCGGACAAAATCGGCGAGGCCGACTTCAACAGGAGCAGGGAGTTCATGGAGGAGG [4515]

Rat AGGCGTCAGACGAAGTTGGTGAAGCCAACTTCAATAAGAGCAAGGAGTTCCTGGAGGAGG [4685]

Capybara AGGGCTCAGACAAAGTTGGAGAAGCCAACTTCAACAGGAGCAAGGAGTTCATGGCAGAGG [4627]

Rabbit AAGGGTCAGACGAAGTCGGGGAGGCCAACTTCAACAAGAGCAAGGCGTTCGTGGAGGAGG [4395]

Round\_Eared\_Bat AAGGGTCGGACCAAATCGGCGAGGCCAACTTCAACAGGAGCAGGGAGTTCATGGAGGAGG [4596]

Flying\_Fox AGGGGTCGGACAGAATCGGCGAGGCCAATTTCAACAGGAGCAAGGAGTTCATGGAGGAGG [4556]

Aardvark AAGGGTCAGACAAGGTTGGTGAAGCCAACTTCAACCGAAGCAGGGAGTTCATGGAGGAGG [4692]

Elephant\_Shrew AAGGATCAGATAAGTTTGGTGAAACCAACTTCAACTGGAGCAGGCAGTTCTTGGAGGAGG [4415]

Hyrax AGGGGTCAGACAACATTGGTGAAGCCAACTTCAACCGGAGTAAGCAGTTCTTGGAGGAGG [4448]

Dugong AGGGGTCAGACAAGGTTGGCGAAGCCAACTTCAACCGGAGCAAGGAGTTCATGGAGGAGG [4496]

Elephant AAGGGTCAGACAAGGTTGGCGAAGCCAACTTCAACTGGAGCAAGGAGTTCACGGAGGAGG [4532]

Pig AAGGGTCCGACAAGGTCGGCGAGGCCAACTTCAACAGGAGCACGGAGTTTGTGGAGGAAG [4681]

Cow AAGGCTCGGACGAGGTGGGCGAGGCCAACTTCAACAGGAGCGCAGAGTTTGTGGAGGAGG [4727]

Hippo AAGGGTCGGACAAGGTTGGCGAGGCCAACTTCAACAGGAGGAACGAGTTCTTGGAGGAGG [4539]

Whale AAGGGTCGGACAACGTGGGCGAGGCCAACTTCAACAGGAGCACGGAGTTCTTGGAGGAGG [4549]

Horse AAGGGTCGGACAAAATTGGTGAGGCCAACTTCAACAGGAGCAGGGAATTCATGGAGGAGG [4724]

Rhino AAGGGTCAGACAAAACTGGTGAGGTCAACTTCAACAGGAGCAGGGAGTTCATAGAGGAGG [4712]

Cat AAGGGTCCGACAAAATTGGTGAGGCCAACTTTAACAAGAGCAGGGAGTTCATGGAGGAGG [4610]

Dog AAGGGTCAGACAAAATTGGTGAGGCCAACTTTAACAAAAGCAGGGAGTTCATGGAGGAGG [4699]

Human AAGGATCGGACAAAATTGGTGAAGCCGACTTCAACAGGAGCAAGGAGTTCATGGAGGAGG [4723]

Galago AAGGCTCGGACAAAATCGGAGAAGCTAACTTCAACAGGAGCAAGGAGTTCATGGCGGAGG [4666]

Flying\_Lemur AAGGGTCGGACAAAATCGGTGAGGCCGACTTCAACAGGAGCAGGGAGTTCACGGAGGAGG [4655]

Tree\_Shrew AGGGGTCGGACAAAATCGGGGAAGCCAACTTCAACAGGAGCAAGGAGTTCGTGGAGGAGG [4582]

Madagascar\_Hedgehog AAGGCTCAGACAAGGTTGGCGAGGCCAGCTTCAACCGCTGCAGGGAGTTCATGGAGGAGG [3442]

Golden\_Mole AAGGGTCCGACAAGGTTGGTGAAGTCAACTTCAACCGAATCAAGGAGTTCATGGAGGAGG [3444]

[ 4990 5000 5010 5020 5030 5040]

[ . . . . . .]

Opossum TGATTCAACGGATGGATGTGAGACAAGGCAGCATCCACATCTCCATCCTGCAGTACTCTT [4754]

Kangaroo TGATTCAACGGATGGATGTGAGTCAAGAGAGCATCCACATTTCCATCATACAGTACTCCT [4783]

Hedgehog TGATCCAGCGCATGGCTGTGAGCCAGGAGGAAATCCACATCACGGTGCTACAGTACTCAT [4436]

Mole TGATCCAGCACATGGACGTGGGCCGGGACAGCATCCACGTCGCCGTGCTGCAGTACTCCT [4701]

Sloth TGATCCGGCGGATGGACGTGGGCTGGGACGGCATCCACGTGACCGTGCTGCAGTTCGCCT [4573]

Pangolin TGATTCGGCAGATGGACGTGGGGCAGGAGGGCATCCACGTCACAGTGCTGCAGTACTCGT [4575]

Rat TTATCCAGCGCATGGATGTGAGCCCGGCTGGGACGCACATCGCAGTTCTGCAGTACTCAT [4745]

Capybara TGATCCAGCACATGGATGTGGCCCAGGATGGCATTCATGTTACGGTCCTGCAATACTCGT [4687]

Rabbit TGATCCGGCGCATGGACGTGGGCCCCGGCAGCATCCACGTCACGGTGCTGCAGTACTCGT [4455]

Round\_Eared\_Bat TGATCCAGCGGATGGACGTGGGCCCAGACGCCATCCACGTCACGGTGCTGCAGTACGCGT [4656]

Flying\_Fox TGATCCAGCGGATGGACGTGAGCCAGGACAGCATCCACGTCATGGTGCTGCAGTACTCCT [4616]

Aardvark TGATCCAGCGGATGGATGTGGGCCAGAATGGCATCCACATCACTGTTCTGCAGTACTCGT [4752]

Elephant\_Shrew TGATCCAGCAGATGGACGTGGGCCAGGACAGCATCCACGTCACGGTGCTGCAGTACTCAA [4475]

Hyrax TTATTCAACAGATGGATGTAGGCCAGGGCACCATCCACATCACCGTGCTGCAGTACTCAT [4508]

Dugong TGATCCAGCAGATGGACGTGGGCCAGGCAGCCATCCACATCACCGTGCTGCAGTACTCAT [4556]

Elephant TGATCCGGCGGATGGATGTGGGCCAGGACAGCGTCCACGTCACCGTGCTGCAGTACTCAT [4592]

Pig TGATCCGGCGGATGGACGTGGGCCGGGACAGTGTCCACGTCACGGTGCTGCAGTACTCGT [4741]

Cow TGATCCGACGCATGGACGTGGGCCAGGACGGCATCCACGTCACAGTGCTGCAGTACTCAT [4787]

Hippo TGATCCGGCGGATGGATGTGGGCCGGGACGGCATCCACGTCACGCTGCTGCAGTACTCAT [4599]

Whale TGATCCGGCAGATGGACGTGGGCCGGGACAGTGTGCACGTCACGGTGCTGCAGTACTCAT [4609]

Horse TGATTCAGCGGATGGATGTGGGCCAGGACGCCATCCACATCACAGTGCTGCAGTACGCAT [4784]

Rhino TGATTCAGCGGATGGACGTGGTCCGGGACAGCATCCATGTCACAGTGCTGCAGTATTCGT [4772]

Cat TGATTCGGCGCATGGATGTGGGCCAGGACGGCATCCACATCACAGTGCTGCAGTACTCGT [4670]

Dog TGATTCAGCGGATGGACGTGGGCCAGGACAGGATCCACGTCACAGTGCTGCAGTACTCGT [4759]

Human TGATTCAGCGGATGGATGTGGGCCAGGACAGCATCCACGTCACGGTGCTGCAGTACTCCT [4783]

Galago TGATTCAGCGGATGGACGTGGGCCAGGATGCCATCCACGTTGCAGTGCTTCAGTACTCAT [4726]

Flying\_Lemur TGATCCCGCGCATGGACGTGGGCCAGGGCAGCATCCACGTTGCCGTGCTGCAGTACTCGT [4715]

Tree\_Shrew TGATTCAGCGGATGGACGTGGGCCAGGATGGCATCCACGTCACAGTGCTGCAGTACTCCT [4642]

Madagascar\_Hedgehog TGATCCGGCGGATGGACGTGGGCCAGGACAGCATCCACGTCACTGTGCTACAGTACTCGT [3502]

Golden\_Mole TGATCCAGCGAATGGATGTGGGCCAGGACAGCATCCACATCACTGTGCTTCAATACTCGT [3504]

[ 5050 5060 5070 5080 5090 5100]

[ . . . . . .]

Opossum ACACAGTGTCCGTGGAGTTCTCCTTCAATGAGACTCAGTCTAAGAGCCATATCCTGGAGA [4814]

Kangaroo ATACAGTGACTGTGGAGTTCTCCTTCAATGAGACTCAGTCTAAGAGATATATCCTGGACA [4843]

Hedgehog ACACAGTGATTCCTGAGTACACCTTCAGTGAGGCGCAGACCAAGGCCGAGGTCCTGCGGC [4496]

Mole ACACGGTGACGGCGGAGCACAC?TTCCGCGAGCCCCAGTCCAAGGCAGAGGTCCTGCGGC [4761]

Sloth ACATGGTGACGGTGGAGTACACCTTCAGCGAGGCGCAGTCCAAGACCGACATCCTGCGGC [4633]

Pangolin ACATGGTGACTGTGGAGTACAGCTTCAGGGAGGCGCAGTCCAGGGAGGACATCCTGCAGC [4635]

Rat ACACAGTAAACGTTGAGTACACCTTCAAGGAGGCCCAGTCCAAGGAGGATGTGCTGCGAC [4805]

Capybara ACATGGTGACCGTGGAGTACACCTTCCGTGAGGCCCAGTCCAAGGGGGATGTGCTGCAAC [4747]

Rabbit ACGTGGTGACCGTGGAGTACACCTTCAGCGAGCCACAGTCCAAGGACGACATCCTGCGAC [4515]

Round\_Eared\_Bat ACACGGTGACCGTGGAGGCCACCTTCCGCGAGACCCAGTCCAAGGGGGAGGTCCTGCAGC [4716]

Flying\_Fox ATGTGGTGACCGTGGAGTCCACTTTCCTCGAGGCGCAGTCCAAGGGGGACATCCTGCAGC [4676]

Aardvark ACATGGTCACAGTGGAGTACATGTTCAGGGAAGCACAGTCCAAGGGGGACATCCTGCAGC [4812]

Elephant\_Shrew ATGTGGTCAGAGTGGAGTACACCTTCAGCGAGGCACAGTCCAAGGATGCTATTCTGCAGC [4535]

Hyrax ACACGGTCACAGTGGAGTACACCTTCAGCAAGGCACAGTCCAAGGCAGACATCCTGCAGC [4568]

Dugong ACATGGTTACGGTGGAGTACACCTTCAGTGAGACACAGTCCAAGGGAGACATTCTGCAGT [4616]

Elephant ACATGGTCACGGTGGAGTACCCCTTCAGCAAGGTGCAGTCCAAGCAGGACATCCTGCAGC [4652]

Pig ACGTGGTGGCCGTGGAGCACTCCTTCAGGGAGGCGCAGTCCAAGGGGGAAGTCCTACAGC [4801]

Cow ATGTGGTGACTGTGGAGCACTCCTTCAGGGAGCCACAGTCCAAGGACGTGGTCCTGCAGC [4847]

Hippo ACATGGTGACCGTGGAGCACTCCTTCAGAGAGGCGCAGTCCAAGGAGGACGTCCTGCAGC [4659]

Whale ACGTGGTGACCGTGGAGCACTCCTTCAGAGAGGGGCAGTCCAAGGAGGACGTCCTGCAGC [4669]

Horse ACAGGGTGACCATGGAGTACACTTTCCTTGAGACACAGTCCAAGAGGGACGTCCTGCAGC [4844]

Rhino ACATGGTGACCGAGGAGTACACCTTCCTCGAGGCACAGTCCAAGAGGGACGTCCTGCAGC [4832]

Cat ACATGGTGACTGTGGAGTACACCTTCAGGGAGGCCCAGTCCAAGGGTGAGGTCCTGCAGC [4730]

Dog ACATGGTGACCGTGGAGTACACCTTCAGCGAGGCGCAGTCCAAGGGCGAGGTCCTACAGC [4819]

Human ACATGGTGACCGTGGAGTACCCCTTCAGCGAGGCACAGTCCAAAGGGGACATCCTGCAGC [4843]

Galago ACGTGGTGGCCTTGGAGTACCCCTTCAGTGAGGCACAGTCCAAAGGGGACATCCTACAGC [4786]

Flying\_Lemur ACGTGGTGGCCGCGGAGCACACCTTCCACGAGACGCAGTCCAAGCAGGACGTCCTGCAGC [4775]

Tree\_Shrew ACGTGGTGACCGCAGGGTACACTTTCAGCCAGGTGCAGTCCAAGGTGGACATCCTGCAGC [4702]

Madagascar\_Hedgehog ACGTGGTCACGGTGGAGCACACCTTCCGTGAGGCACAGTCCAAGGCTGGCATCCTGCAGC [3562]

Golden\_Mole ACATGGTCACTGTAGAGTACACCTTCAGCGAGGCACAGTCCAAGGGGGACATCCTGCAAC [3564]

[ 5110 5120 5130 5140 5150 5160]

[ . . . . . .]

Opossum GGATACAGCAGATACACTATCAGGGTGGCAACAGAACCAACACAGGGAAAGCCCTTCAAT [4874]

Kangaroo GGATAGAGCAGATACACCATCGGGGAGGCAATAGGACCAACACTGGGAAGGCCCTTGAAT [4903]

Hedgehog ACGTGCGGGAGCTCCGCTACCGGGGCGGCAACAGCACCCGCACGGGACAGGCCTTGCAGT [4556]

Mole AGGTGCGGGAGCTGCGCTTCCGGGGAGGCAACGGGACCAACACAGGCCGGGCCCTGCAGT [4821]

Sloth GGGTTGGGGAGATGCAGTTCCGGGGTGGCAACAGGACAAACACGGGGCTGGCCCTGCAGT [4693]

Pangolin GTGTGCGAGCGATTCGCTTCCAGGGCGGCAACAGGACCAACACTGGGCTGGCCCTGCAGT [4695]

Rat ATGTGCGAGAGATCCGCTACCAGGGGGGCAACAGGACAAACACTGGGCAGGCCTTGCAGT [4865]

Capybara ATGTGCGAGAGATCCAGTTCCGGGGTGGCAACCAGACCAACACTGGGTTGGCCCTGCAGT [4807]

Rabbit ACGTGCGAGAGATCCGCTACCAGGGTGGCAACAGGACCAACACGGGGCTGGCCCTGCAGT [4575]

Round\_Eared\_Bat GGGTGCGCGAGATCCGCTACCAAGGYGGTAACAGCACCAACACGGGACTGGCCCTGCAGT [4776]

Flying\_Fox GGGTGCGGGAGATCC?CTACCGGGGTGGCAACAGGACCAACACGGGGCTAGCCCTGCAGT [4736]

Aardvark ACATACACAAGATCCGCTACCAGGGTGGCAACAGGACCAACACTGGGCTGGCCCTACAGT [4872]

Elephant\_Shrew ACGTGCGGGAAATCCAGTATCTGGGTGGTAACAAGACCAACACAGGACTGGCCCTACAGT [4595]

Hyrax ACGTGCGGGAGATTCGCTACCAGGGTGGCAACAGAACCAACACTGGGCTGGCCCTGCAGT [4628]

Dugong ATGTGCGAGAGATCCGCTACCAGGGTGGCAACAGGACCAACACTGGGCTGGCCCTACAGT [4676]

Elephant ACGTGCGGGAGATCCGCTACCAGGGTGGCAACAGGACCAACACTGGGCTGGCCCTACAGT [4712]

Pig GGGTGCGGGAGATCCGCTTCCAGGGTGGCAACAGGACCAACACTGGGCTGGCCCTGCAGT [4861]

Cow GACTCCGTGAAGTCCGCTACCGAGGTGGCAACCAGACAAACACGGGGCTGGCCCTGCAGT [4907]

Hippo AGCTGCGGGAGATCCGATACCAGGGCGGCAACAGGACCAACACTGGGCTGGCCCTGCAGT [4719]

Whale GGCTGCGGGAGATCCGCTACCGGGGTGGCAACCGGACCAACACCGGGCTGGCCCTGCAGT [4729]

Horse GTGTGCGTGAGATCCGCTACCAGGGCGGCAACAGGACCAACACCGGACTGGCCCTACAGT [4904]

Rhino GGGTGCGTGAGATCCGCTACCAGGGTGGCAACAGGACCAACACCGGACTGGCCCTGCAGT [4892]

Cat AGGTGCGGGAGATCCGGTACCGGGGTGGCAATAGGACCAACACTGGACTGKCCCTGCAGT [4790]

Dog AGGTGCGGGATATCCGATACCGGGGTGGCAACAGGACCAACACTGGACTGGCCCTGCAAT [4879]

Human GGGTGCGAGAGATCCGCTACCAGGGCGGCAACAGGACCAACACTGGGCTGGCCCTGCGGT [4903]

Galago GGGTGCATGAGATCCGTTACCAGGGCGGCAACAGGACCAACACCGGGCTGGCTCT?CAGT [4846]

Flying\_Lemur GGGTGCGCGAGATCCGCTACCGAGGTGGTAACAGGACCAACACTGGACTGGCCCTGCAGT [4835]

Tree\_Shrew GGGTGCGGGAGATCCGCTTCCAGGGCGGCAACGTGACCAACACGGGACTGGCCCTGCAGT [4762]

Madagascar\_Hedgehog GCGTGCGGGAGCTACGCTACCTGGGTGGCAACAGGACCAACACCGGGCTGGCCCTACAGT [3622]

Golden\_Mole ACGTGCGGGAGATACGCTACCGGGGTGGCAACAGGACCAATACTGGGCTGGCCCTAGAGT [3624]

[ 5170 5180 5190 5200 5210 5220]

[ . . . . . .]

Opossum ATCTTTCTGAGAATACCTTCTCTTCCAGCCAAGGCACTCGGAAGCAAGCACCCCATCTAG [4934]

Kangaroo ACCTTTCTGAGAATACCTTCTCTTCTAGCCAAGGCAATCGGAAGACAGCGCCTCATTTAG [4963]

Hedgehog ACCTGGCCCAGCACAGCTTCTCAGGTGGCCAGGGCGACCGCGAGCAGGCGCCCAACCTAG [4616]

Mole ACCTGGCCGAGCACAGCTTCTCGGCCGGCCAGGGGGACCGGGAGGAGGCGCCCAACCTGG [4881]

Sloth ACCTCTCGGAGCACAGCTTC---ACCAGCCAGGACGACCGGGAGCAGGCACCCAACCTGG [4750]

Pangolin ACCTGTCTGAGCACAGCTTCCTGGCCGGCCAGGGCGACCGGCAGCAGGCACCGAACCTGG [4755]

Rat ACCTTTCTGAGCACAGCTTCTCTCCCAGCCAGGGAGACCGGG?????????????????? [4925]

Capybara ATGTGTCTGAGCACAGCTTCTCTGCAGGCCAGGGCGATCGGGAGCAGGCGCCGAACCTGG [4867]

Rabbit ACCTCTCTGAGCACAGCTTCACCACCAGCCAGGGCGACCGGGAGCAGGCCCCGAACCTGG [4635]

Round\_Eared\_Bat ACGTTTTCGAACACAGCTTCTCGGCCAGCGAGGGGGATCGGGAGCAGTCACCTAACCTGG [4836]

Flying\_Fox ACCTGTCTGAGCACAGCTTCTCCGCCAGCCAGGGGGACCGGCAGGAGGCGCCTAACCTGG [4796]

Aardvark ATGTCTCTGAGCACAGCTTCTCTACCAGCCAGGGGGACCGTGAGGAGGCACCTAACCTGG [4932]

Elephant\_Shrew ACATCTCTGATCACAGCTTTTCTCCTAGCCAGGGGGACCGTGAGCAGGCCCCTAACCTGG [4655]

Hyrax ACGTCTCTGAGCACAGTTTCTCCACCAGGCAAGGGGATCGTGAGCAGGCGCCTAACTTGG [4688]

Dugong ACGTCTCTGAGCACAGCTTCTCCACCAGCCAGGGGGACCGTGAGCAGGCACCTAACCTGG [4736]

Elephant ACGTCTCAGAGCACAGCTTCTCTACCAGCCAGGGGGACCGAGAGCAGGCACCTAACCTGG [4772]

Pig ACCTCTCGGAGCACAGCTTCTCAGCCAGCCAGGGGGACCGGGAGGAGGCGCCCAACCTGG [4921]

Cow ACTTGTCGGAGCACAGCTTCTCTGCCAGCCAGGGGGACCGGGAGCAGGCGCCCAACCTGG [4967]

Hippo ACCTGTCGGAGCACAGCTTCTCGGCCAGCCAGGGGGACCGAGAGCAGGCACCCAACCTGG [4779]

Whale ACCTGTCGGAGCACAGCTTCTCGGCCAGCCAGGGGGACCGGGAGCAGGCGCCCAACCTGG [4789]

Horse ACCTGTCTGAGCACAGCTTCTTGGCCAGCCAGGGGGACCGGGAGCAGGCACCTAACCTGG [4964]

Rhino ACCTGGCTGAGCACAGCTTCTCGGCCCGCCAGGGGGACCGGGAGCAGGCGCCTAACCTGG [4952]

Cat ACCTGTCTGAACACAGCTTCTCAGCCAACCAGGGGGACCGGGAGCAGGCACCTAACCTGG [4850]

Dog ACCTGTCCGAACACAGCTTCTCGGTCAGCCAGGGGGACCGGGAGCAGGTACCTAACCTGG [4939]

Human ACCTCTCTGACCACAGCTTCTTGGTCAGCCAGGGTGACCGGGAGCAGGCGCCCAACCTGG [4963]

Galago ACCTCTCCGAGCACAGCTTCTCTTCCACCCAGGGGGACCGGGAGCAGGCGCCCAACCTGG [4906]

Flying\_Lemur ACCTGTCTGAGCACAGCTTCTCTGCCAGCCAGGGGGACCGGGAGCAGGCACCTAATCTGG [4895]

Tree\_Shrew ATCTGTCCGAGCACAGCTTCTCGGCCAGCCAGGGGGACCGTGAGCAAGCACCCAACTTG? [4822]

Madagascar\_Hedgehog ACCTCTCTGAGCACAGCTTCTCCTCCAGCCAGGGGGACCGTAAGCAGGCCCCCAACCTGG [3682]

Golden\_Mole ACATCTCTGAGCACAGTTTCTCTACCAGCCAAGGGAACCGTGAGCAGGCGCCTAACCTCG [3684]

[ 5230 5240 5250 5260 5270 5280]

[ . . . . . .]

Opossum TGTACATGGTAATGGGCAATCCTGCTACAGATGAGATCAAGCGCTTACCCCAGGACATTG [4994]

Kangaroo TATACATGGTAGTGAGCAATCCTGCCACTGATGAGATCAAACGTTTACCCCAGGACATTC [5023]

Hedgehog TCTACATGGTCACGGCCTCGCCTGCCACTGATGAGCTCAGGCGGCTGCCTGGGGACATCC [4676]

Mole TCTACATGGTCACGGGCAGCCCCTC?TCCGACGAGATCAGGAGGATGCCGGGCGACATCC [4941]

Sloth TCTACCTGGTCACAGGGACCCCCCCCTCGGACGAGATCAGGCGCTTGCCGGGTGACATCG [4810]

Pangolin TCTACATGGTCACAGGAAACCCTGCCTCCGACGTGATCACGCGGATGCCTGGAGACATCC [4815]

Rat ???????????????????????????????????????????????????????????? [4985]

Capybara TTTACATGGTCACAGGAAATCCCGCCTCTGATGAAATCAAGCGGTTGCCTGGAGATATCC [4927]

Rabbit ???????????????????????????????????????????????????????????? [4695]

Round\_Eared\_Bat TCTACATTGTCACAGGAAA????????????????????????????????????????? [4896]

Flying\_Fox TCTACATGGTCACGGGGAACCCCGCCTCTGACGAGATCAAGCGGATGCCTGGGGACATCC [4856]

Aardvark TCTACATGGTGACAGGAAACCCTGCCTCTGATGAGATCAGGCGGCTGCCTGGAGATATCC [4992]

Elephant\_Shrew TCTACATGGTCACAGG???????????????????????????????????????????? [4715]

Hyrax TCTACATGGTGACAGGAAACCCTGCCTCTGATGAGATCAAGCGGCTACCAGGTGACATCC [4748]

Dugong TCTACATGATCACAGGAAACCCTGCCTCTGATGAGATCAAGCGGCTGCCTGGAGACATCC [4796]

Elephant TCTACATGGTCACAGGA??????????????????????????????????????????? [4832]

Pig TCTACATGGTCACAGGAAACCCTGCCTCGGATGAGATCAAGCGGATGCCGGGAGACATCC [4981]

Cow TCTACATGGTGACAGGAAGCCCGGCCTCGGACAAGATCCAGCGGATGCCTGGAGACATCC [5027]

Hippo TCTACATGGTCACAGGAAGCCCGGCATCGGATGAGATCAGGCGGATGCCTGGGGACATCC [4839]

Whale TCTACATGGTCACGGGGAGCCCGGCCTCAGATGAGATCAGGCGGATGCCTGGAGACATCC [4849]

Horse TCTACATGGTCACAGGAA?????????????????????????????????????????? [5024]

Rhino TCTACATGGTCACAG????????????????????????????????????????????? [5012]

Cat TCTACATGGTCACTGGAAACCCCGCCTCCGATGAGATCAGGCGGATGCCTGGAGACATCC [4910]

Dog TCTACATGGTCACAGGAAACCCCGCTTCTGATGAGATCAAGCGGATGCCTGGAGACATCC [4999]

Human TCTACATGGTCACCGGAAATCCTGCCTCTGATGAGATCAAGAGGCTGCCTGGAGACATCC [5023]

Galago TCTACATGGTCACGGGAAATCCTGCCTCTGATGAGATCAGGCGCTTGCCGGGAGACATCC [4966]

Flying\_Lemur TCTACATGGTCACAGGCAATCCGACCTCTGACGAGATCAAGCGGTTGCCCGGAGACATCC [4955]

Tree\_Shrew ???????????????????????????????????????????????????????????? [4882]

Madagascar\_Hedgehog TCTACATGGTCACAGCCAACCCCGCCTCTGACGAGATCAAGCGGCTGCCTGGAGACATCC [3742]

Golden\_Mole TCTACATGGTCACAGCAAACCCTGCCTCGGATGTGATCAGGCGGCTGCCAGGAGACATCC [3744]

[ 5290 5300 5310 5320 5330 5340]

[ . . . . . .]

Opossum AGCTGGTACC?ATTGGTGT????????????????????????????????????????? [5054]

Kangaroo AGGTGATCCCCATTGGTGTGGGCCCCAATGCTGACATCCATGAGTTGGAGATGCTCAGCC [5083]

Hedgehog AGCTGGTGCCCATTGGCGTGGGCCCGCACGCGGACGTGCAGGAGCTGGAGCGCCTGGCCT [4736]

Mole AGGTGGTGCCCATCGGGGTGGGCCCGCA?GCCGACGTGCCGGAGCTGGAGCGGATCGGCT [5001]

Sloth AGGTGGTGCCCATCGGCGTGGGCCCTCAAGTCAGCATGCAGGAGCTGGAGACCCTCAGCT [4870]

Pangolin AGGTGGTGCCCATTGGAGTGGGTCCTCATGCCAGCGTGCAGGAGCTCGAGAGGATTGGCT [4875]

Rat ???????????????????????????????????????????????????????????? [5045]

Capybara AGGTGGTGCCCATTGGAGTGGGCCCTGGTGCCAACATGCAGGAGCTGCAGAGAGTCAGCT [4987]

Rabbit ???????????????????????????????????????????????????????????? [4755]

Round\_Eared\_Bat ???????????????????????????????????????????????????????????? [4956]

Flying\_Fox AACTGGTGCCCATTGGAGTGGGTCCTCAGGCTGATGTTCAGGAGCTGGAGAGGATCGGCT [4916]

Aardvark AGGTGGTGCCCATTGGAGTGGGCCCTCATGCCAACATGCAGGAGCTGGAGAAGATTGGCT [5052]

Elephant\_Shrew ???????????????????????????????????????????????????????????? [4775]

Hyrax AAGTGGTGCCCATTGGAGTGGGCCCCCATGCCAATGCACAGGAGCTGGAGAGGATCAGCT [4808]

Dugong AAGTGGTGCCCATTGGAGTGGGCCCGCATGCGAACAAGCAGGAGCTGGAGAGGATCAGCT [4856]

Elephant ???????????????????????????????????????????????????????????? [4892]

Pig AGGTGGTGCCCATCGGGGTGGGCCCCGACGTGGAGATGCAGGAGCTAGAGCGCCTCAGCT [5041]

Cow AGCTGGTGCCCATCGGCGTGGGCCCCCGCGTGGATGTGCAGGAGCTGGAGAGGGTCAGCT [5087]

Hippo AGGTGGTGCCCATCGGAGTGGGCTCCCGAGTGGATGTGCAGGAGCTGGAGAGGATCGGCT [4899]

Whale AGGTGGTGCCCATTGGGGTGGGACCTCGCGTGGACGTGCAGGAGCTGGAGAAGATCGGCT [4909]

Horse ???????????????????????????????????????????????????????????? [5084]

Rhino ???????????????????????????????????????????????????????????? [5072]

Cat AGGTGGTACCCATCGGAGTGGTCCCTCATACCAACCT??????????????????????? [4970]

Dog AGGTGGTGCCCATCGGGGTGGGTCCACATGCCAATGTGCAGGAGCTGGAGAAGATTGGCT [5059]

Human AGGTGGTGCCCATTGGAGTGGGCCCTAATGCCAACGTGCAGGAGCTGGAGAGGATTGGCT [5083]

Galago AGGTGGTGCCCATTGGAGTGGGCCCTCAT?CCAATGT?CAGGAGCTGGAGAGGATTGGAT [5026]

Flying\_Lemur AGGTGGTGCCCATCGGAGTGGGCCCTCATGCCAACGTGCAGGAGCTGGAGAGGATCGGCT [5015]

Tree\_Shrew ???????????????????????????????????????????????????????????? [4942]

Madagascar\_Hedgehog AGCTGGTGCCCATTGGAGTGGGGCCTCATGCCAGTGCGCAGGAGCTGGAGAAGATG?GCT [3802]

Golden\_Mole AAGTGGTGCCCATTGGAGTGGGCCCTCATGCCAACGTGCAGGAACTAGAGAGGATGGCTT [3804]

[ 5350 5360 5370 5380 5390 5400]

[ . . . . . .]

Opossum ??????????????GCCATCGCAGCTGTCATCACCTTTCTCATCCTTTTCACCATCTTTG [5114]

Kangaroo GGCCCAATGCTCCAGCCATCGCAGCCGTCATCACCTTTCTCATCCTTTTCACCATCTTTG [5143]

Hedgehog GGCCGCACTCCCCCGCCATCGCAGCGGTCATCACCTTCCTTATCCTCTTCACCATCTTCG [4796]

Mole GGCCCAACGCCCCCGCCATCGCGGCCATCATCATCTTCCTCATCCTCTTCACCATCTTTG [5061]

Sloth GCCCGCACCCCCCCGCCATCGCGGCGGTCATCACCTTCCTCATCATCTTCACCATCTTCG [4930]

Pangolin GGCCAAATGCCCCCGCCATTGCGGCTGTCATCACCTTCCTCATCCTGTTCACCATCTTTG [4935]

Rat ??????????????GCCATCGCGTCGGCCATCACCTTTCTCATCCTTTTCACCATTTTCG [5105]

Capybara GGCCCAGCACCCCCGCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [5047]

Rabbit ??????????????GCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [4815]

Round\_Eared\_Bat ??????????????GCCATCGCAGCGGTTATCACCTTCCTAATTCTCTTCACCATCTTTG [5016]

Flying\_Fox G??CCAATGCCCCTGCCATCGCTGCGGTCATCACCTTTCTCATCCTCTTCACCATCTTCG [4976]

Aardvark GGCCCAAT??????GCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [5112]

Elephant\_Shrew ??????????????GCCATCGCAGCCGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [4835]

Hyrax GGCCCAGTGCCCCCGCCATTGCGGCGGTCATCACATTCCTCATCCTCTTCACCATTTTCG [4868]

Dugong GGCCCAATGCCCCCGCCATCGCGACGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [4916]

Elephant ??????????????GCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [4952]

Pig GGCCCAATGCCCCCGCCATCGCTGCGGTCATCACCTTCCTCATCCTGTTCACTATCTTCG [5101]

Cow GGCCCCAGACCCCCGCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [5147]

Hippo GGCCCCAGGCCCCCGCTATCGCGGCGGTCATCACCTTCCTCATCCTTTTCACCATCTTCG [4959]

Whale GGCCCCAGGCCCC?GCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [4969]

Horse ??????????????GCCATTGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTTG [5144]

Rhino ??????????????GCCATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTTG [5132]

Cat ??????????????GCCATCGCGGCGGTCATCACGTTCCTCATCCTTTTCACCATCTTTG [5030]

Dog GGCCCAATGCCCCCGCCATCGCGGCGGTCATCACGTTCCTCATCCTCTTCACCATCTTCG [5119]

Human GGCCCAATGCCCCTGCCATAGCGGCGGCCATCACCTTCCTCATTCTCTTTACCATCTTCG [5143]

Galago GG?CCAATGCTCCCGCCATCGCGGCGGCCATCACCTTCCTCATCCTCTTCACCATCTTTG [5086]

Flying\_Lemur GGCCCAATGCCCCCGCTATCGCGGCGGTCATCACCTTCCTCATCCTCTTCACCATCTTCG [5075]

Tree\_Shrew ??????????????GCCATCGCGGCGGTCATCACTTTCCTCATCCTCTTCACCATCTTCG [5002]

Madagascar\_Hedgehog GGCCCAACGCACCCGCCATCGCGGCGGTCACCACCTTCCTCATCCTCTTCACCGTCTTCG [3862]

Golden\_Mole GGCCCAATGCCCCCGCCATTGCGGCAGTCATCACCTTCCTCATCCTCTTCACCATCTTTG [3864]

[ 5410 5420 5430 5440 5450 5460]

[ . . . . . .]

Opossum GCAATGCTCTGGTCATCCTGGCCGTGTTGACTAGCCGATCCCTTCGAGCCCCACAGAACT [5174]

Kangaroo GCAATGCACTAGTCATCTTGGCGGTGTTGACTAGCCGCTCCCTTCGAGCCCCACAGAACT [5203]

Hedgehog GCAACGCGCTGGTTATCTTGGCTGTGCTGACTAGCCGCTCGCTGCGCGCCCCGCAGAACC [4856]

Mole GCAACGCGCTGGTCATCCTGGCTGTGCTGACAAGCCGCTCGCTGCGCGCCCCGCAGAATC [5121]

Sloth GCAACGCCCTGGTCATCCTGGCCGTGCTGACCAGCCGCTCCCTGCGCGCGCCGCAGAACC [4990]

Pangolin GCAACGCGCTGGTCATCTTGGCTGTGTTGACTAGCCGCTCGCTGCGCGCCCCACAGAACC [4995]

Rat GCAATGCGCTGGTCATTCTGGCTGTGTTGACCAGCCGCTCACTCCGTGCACCACAAAACC [5165]

Capybara GCAACGCGCTGGTCATCCTGGCTGTGCTAACCAGCCGCTCCCTGCGCGCACCGCAGAACC [5107]

Rabbit GCAACGCTCTGGTCATCCTGGCTGTGTTGACCAGCCGCTCGCTGCGTGCCCCGCAAAACC [4875]

Round\_Eared\_Bat GCAACGCGCTGGTCATCCTGGCGGTGTTGACGAGCCGCTCGCTGCGCGCCCCGCAGAACC [5076]

Flying\_Fox GCAACGCGCTGGTCATCCTGGCCGTGTTGACCAGCCGCTCGCTACGCGCCCCGCAGAACC [5036]

Aardvark GCAACGCTCTGGTGATCTTGGCTGTGTTAACTAGTCGCTCTCTGCGTGCCCCGCAGAACT [5172]

Elephant\_Shrew GCAACGCGCTGGTCATCTTGGCCGTGCTGACCAGCCGCTCTCTTCGTGCCCCGCAGAACC [4895]

Hyrax GCAATGCTCTGGTCATCTTGGCTGTGTTGACTAGTCGCTCTCTGCGTGCCCCACAGAATC [4928]

Dugong GCAACTCTCTGGTCATCTTAGCTGTGTTGACTAGTCGCTCTCTGCGCGCCCCGCAGAACC [4976]

Elephant GCAACGCCCTGGTCATCTTGGCTGTGTTGACCAGTCGCTCTCTGCGCGCCCCACAGAACC [5012]

Pig GCAACTCCCTGGTCATCTTGGCTGTGCTGACAAGCCGCTCGCTGCGCGCGCCGCAAAACC [5161]

Cow GCAACGCGCTGGTCATCTTGGCTGTGCTGACCAGCCGCTCGCTGCGCGCCCCGCAGAACC [5207]

Hippo GCAACGCTCTGGTCATCTTGGCTGTGCTGACAAGCCGCTCGCTGCGCGCCCCTCAGAACC [5019]

Whale GCAACGCGCTGGTCATCTTGGCTGTGCTGACAAGCCGCTCGCTGCGAGCCCCGCAGAACC [5029]

Horse GCAACGCGCTGGTCATCCTGGCTGTGTTGACGAGCCGCTCGCTGCGCGCCCCGCAGAACC [5204]

Rhino GCAACTCGCTGGTCATCCTGGCTGTGTTGACGAGCCGCTCTCTGCGCGCCCCGCAGAACC [5192]

Cat GCAACGCGCTGGTCATCTTGGCTGTGTTGACGAGTCGCTCGCTGCGCGCCCCGCAGAACC [5090]

Dog GCAACGCGCTGGTCATCTTGGCTGTGCTGACGAGCCGCTCGCTGCGCGCCCCGCAGAACC [5179]

Human GCAACGCTCTGGTCATCCTGGCTGTGTTGACCAGCCGCTCGCTGCGCGCCCCTCAGAACC [5203]

Galago GCAACGCGCTGGTCATCCTGGCTGTGTTGACCAGCCGCTCGCTGCGGGCCCCGCAAAACC [5146]

Flying\_Lemur GCAACGTGCTGGTCATCTTGGCTGTGTTGACGAGCCGTTCGCTGCGTGCCCCGCAAAACC [5135]

Tree\_Shrew GCAACGCGCTGGTCATCCTGGCTGTGCTGACCAGCCGCTCCCTCCGCGCCCCGCAAAACC [5062]

Madagascar\_Hedgehog GCAATGCCCTGGTCATCTTGGCGGTGCTGACTAGCCGCTCGCTGCGGGCCCCGCAGAACT [3922]

Golden\_Mole GCAACGCTCTGGTCATTTTGGCTGTGCTGACCAGTCGCTCTTTGCGCGCCCCGCAGAACC [3924]

[ 5470 5480 5490 5500 5510 5520]

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Opossum TGTTCCTGGTTTCCCTGGCTGCAGCTGACATCTTGGTGGCCACCCTCATCATACCCTTCT [5234]

Kangaroo TGTTTCTGGTTTCTCTGGCTGCAGCTGACATCTTGGTGGGCACCCTCATCATACCCTTCT [5263]

Hedgehog TGTTCCTGGTGTCGCTGGCCGCCGCGGACATCCTGGTGGCCACCCTCATCATCCCTTTCT [4916]

Mole TGTTCCTGGTGTCGCTGGCCGCCGCTGACATCCTGGTGGCCACGCTGATTATCCCTTTCT [5181]

Sloth TCTTCCTGGTGTCGCTGGCGGCCGCCGACATCCTGGTGGCCACGCTTATCATACCCTTCT [5050]

Pangolin TGTTCCTGGTGTCGCTGGCCGCCGCTGACATCCTTGTGGCAACGCTCATCATTCCTTTCT [5055]

Rat TGTTCCTGGTGTCACTGGCAGCAGCCGACATCCTAGTGGCTACTCTCATCATCCCTTTCT [5225]

Capybara TGTTCCTGGTGTCGCTGGCCGCCGCTGACATCTTGGTGGCCACGCTCATTATCCCCTTCT [5167]

Rabbit TGTTCCTGGTGTCGCTGGCCGCGGCCGACATCCTGGTGGCCACGCTCATCATCCCCTTCT [4935]

Round\_Eared\_Bat TGTTCCTGGTGTCGTTGGCGGCAGCCGACATCCTGGTGGCCGCGCTCATCATCCCTTTCT [5136]

Flying\_Fox TGTTCCTGGTGTCGCTGGCCGCCGCCGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5096]

Aardvark TGTTCCTAGTGTCGCTGGCCGCCGCTGACATCCTGGTGGCCACTCTCATCATCCCTTTTT [5232]

Elephant\_Shrew TGTTTCTGGTGTCGCTGGCCGCTGCTGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [4955]

Hyrax TGTTCCTAGTGTCACTGGCCGCAGCTGACATCCTGGTGGCCACGCTTATCATCCCCTTCT [4988]

Dugong TATTCCTAGTGTCGCTGGCCGCCGCTGACATCATGGTGGCCACGCTCATCATCCCTTTCT [5036]

Elephant TGTTCCTGGTGTCGCTGGCCGCGGCCGACATCCTGGTGGCCACGCTTATCATCCCGTTCT [5072]

Pig TGTTCCTAGTGTCGCTGGCCGCAGCCGACATCCTGGTGGCCACACTCATCATCCCTTTTT [5221]

Cow TGTTCCTAGTGTCGCTGGCCGCCGCCGACATCCTGGTAGCCACGCTCATCATCCCTTTCT [5267]

Hippo TGTTCCTAGTGTCGCTGGCTGCCGCCGACATCCTGGTTGCCACGCTCATTATCCCTTTCT [5079]

Whale TGTTCCTAGTGTCGCTGGCCGCCGCCGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5089]

Horse TGTTCCTGGTGTCGCTGGCCGCTGCTGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5264]

Rhino TGTTCCTGGTGTCGCTGGCCGCCGCTGACATCCTAGTGGCCACGCTCATTATCCCTTTCT [5252]

Cat TGTTCCTCGTGTCGCTGGCCGCCGCCGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5150]

Dog TGTTCCTGGTGTCGCTGGCCGCTGCCGACATCTTGGTGGCCACGCTCATCATCCCTTTCT [5239]

Human TGTTCCTGGTGTCGCTGGCCGCCGCCGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5263]

Galago TGTTTCTGGTATCGCTAGCCGCCGCTGACATCCTGGTGGCCACGCTCATCATCCCTTTCT [5206]

Flying\_Lemur TGTTCCTGGTGTCGCTGGCCGCCGCCGACATCCTGGTGGCCGCGCTCATCATCCCTTTCT [5195]

Tree\_Shrew TTTTCCTGGTGTCGCTGGCGGCCGCCGACATCCTGGTGGCTACACTCATCATCCCTTTCT [5122]

Madagascar\_Hedgehog TGTTCCTGGT?TCGTTGGCCGCCGCGGACATCCTGGTGGCCACGCTCATCAT?CCTTTCT [3982]

Golden\_Mole TGTTTCTAGTATCGCTGGCCGCTGCTGATATTCTAGTGGCCACGCTCATCATCCCTTTCT [3984]

[ 5530 5540 5550 5560 5570 5580]

[ . . . . . .]

Opossum CATTGGCCAATGAACTGCTGGGATACTGGTACTTCCGACACACCTGGTGTGAGGTCTACC [5294]

Kangaroo CACTGGCCAATGAACTGCTGGGATACTGGTACTTCCGACACACCTGGTGTGAGGTCTACC [5323]

Hedgehog CGCTCGCCAACGAGCTGCTCGGGTACTGGTACTTCAGGCGCACGTGGTGCGAGGTGTACC [4976]

Mole CGCTGGCCAACGAACTGTTGGGCTACTGGTACTTCCGGCGCATGTGGTGCAAGGTGTACC [5241]

Sloth CGCTGACCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5110]

Pangolin CGCTGGCCAATGAGCTGCTCGGCTATTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5115]

Rat CTCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCTGGCGTGCGTGGTGCGAGGTCTACC [5285]

Capybara CGCTAGCCAACGAGCTGCTGGGTTACTGGTACTTCTGGCGCACGTGGTGTGAGGTGTACC [5227]

Rabbit CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [4995]

Round\_Eared\_Bat CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGAACGTGGTGCGAGGTGTACC [5196]

Flying\_Fox CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5156]

Aardvark CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACCTGGTGCGAGGTGTACC [5292]

Elephant\_Shrew CGTTGGCCAACGAACTGCTGGGCTACTGGTACTTCCGGCACACGTGGTGCGAAGTGTACC [5015]

Hyrax CACTGGCCAACGAACTGCTGGGCTACTGGTACTTTTGGCGCACGTGGTGCGAGGTGTACC [5048]

Dugong CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTTCGGCGCACGTGGTGCGAGGTGTACC [5096]

Elephant CCCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5132]

Pig CGCTGGCCAATGAGCTGCTGGGCTACTGGTACTTTCGACGCACCTGGTGTGAAGTGTATC [5281]

Cow CGCTGGCCAACGAGTTGCTGGGCTACTGGTACTTCTGGCGCACCTGGTGCGAGGTGTACC [5327]

Hippo CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCTGGCGCACCTGGTGCGAGGTGTACC [5139]

Whale CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCTGGCGCACCTGGTGCGAGGTGTACC [5149]

Horse CGTTGGCCAATGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGTGAGGTGTACC [5324]

Rhino CGTTGGCCAATGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5312]

Cat CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGTGAGGTGTACT [5210]

Dog CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACT [5299]

Human CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5323]

Galago CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCAGCGCACGTGGTGCGAGGTGTATC [5266]

Flying\_Lemur CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCTGGCGCACGTGGTGCGAGGTGTACC [5255]

Tree\_Shrew CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCCGGCGCACGTGGTGCGAGGTGTACC [5182]

Madagascar\_Hedgehog CGCTGGCCAACGAGCTGCTGGGCTACTGGTACTTCTGGCACACGTGGTGCGAGGTGTACC [4042]

Golden\_Mole CACTGGCCAACGAGCTGCTGGGCTACTGGTATTTCCGGCATATGTGGTGCGAGGTGTACC [4044]

[ 5590 5600 5610 5620 5630 5640]

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Opossum TGGCCTTAGATGTCCTTTTCTGCACCTCCTCCATCGTGCACCTGTGTGCCATCAGTCTGG [5354]

Kangaroo TGGCCTTGGATGTCCTTTTCTGCACCTCCTCCATTGTGCACCTGTGTGCCATCAGCCTAG [5383]

Hedgehog TGGCGCTCGACGTGCTCTTCTGCACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5036]

Mole TGGCGCTGGACGTGCTCTTCTGTACCTCCTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5301]

Sloth TGGCGCTGGACGTGCTCTTCTGCACGGCGTCCATCGTGCACCTGTGCGCCATCAGCTTGG [5170]

Pangolin TGGCGCTCGATGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5175]

Rat TGGCGCTAGACGTGCTCTTCTGTACCTCCTCCATCGTGCACCTGTGTGCCATCAGCCTGG [5345]

Capybara TCGCACTCGACGTGCTCTTCTGTACCTCGTCAATCGTGCACCTGTGCGCCATCAGCCTGG [5287]

Rabbit TGGCACTCGATGTGCTCTTCTGCACGTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5055]

Round\_Eared\_Bat TGGCGCTCGACGTGCTCTTCTGTACTTCATCTATCGTGCACCTGTGTGCCATCAGCCTGG [5256]

Flying\_Fox TGGCGCTCGATGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5216]

Aardvark TGGCACTGGATGTACTCTTCTGTACCTCGTCTATCGTGCACCTGTGCGCCATCAGCCTGG [5352]

Elephant\_Shrew TGGCGCTGGACGTGCTCTTCTGCACCTCGTCCATCGTGCATCTGTGTGCCATCAGCCTGG [5075]

Hyrax TAGCCCTGGACGTTCTCTTCTGTACCTCGTCCATAGTGCACCTGTGCGCCATCAGCCTGG [5108]

Dugong TGGCCCTGGACGTGCTCTTCTGTACCTCGTCCATTGTGCACCTGTGCGCCATCAGCCTGG [5156]

Elephant TGGCCCTGGACGTGCTCTTCTGTACCTCGTCCATTGTGCACCTGTGCGCCATCAGCCTGG [5192]

Pig TGGCGCTGGACGTGCTTTTCTGCACCTCCTCCATCGTGCACCTGTGTGCCATCAGCCTGG [5341]

Cow TGGCGCTCGACGTGCTCTTCTGCACTTCCTCCATCGTGCACCTGTGTGCCATCAGCCTGG [5387]

Hippo TGGCGCTCGACGTGCTCTTCTGCACCTCCTCCATCGTACACCTGTGTGCCATCAGCCTGG [5199]

Whale TGGCGCTCGACGTGCTCTTCTGCACCTCCTCCATCGTACACCTGTGCGCCATCAGCCTGG [5209]

Horse TGGCGCTCGACGTGCTCTTCTGTACGTCTTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5384]

Rhino TGGCGCTCGACGTGCTCTTCTGCACCTCTTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5372]

Cat TGGCGCTCGACGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5270]

Dog TGGCGCTCGACGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5359]

Human TGGCGCTCGACGTGCTCTTCTGCACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5383]

Galago TGGCGCTGGATGTGCTCTTCTGTACCTCATCCATCGTGCACCTGTGTGCCATCAGTCTGG [5326]

Flying\_Lemur TGGCGCTGGACGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5315]

Tree\_Shrew TGGCGCTCGATGTGCTCTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [5242]

Madagascar\_Hedgehog TGGCGCTGGA?GTGCTTTT?TGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [4102]

Golden\_Mole TGGCGCTGGACGTGCTTTTCTGTACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGG [4104]

[ 5650 5660 5670 5680 5690 5700]

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Opossum ACCGCTATTGGTCAGTGAGCCGTGCCCTGGAGTACAACTCCAAGAGGACGCCCCGAAGGA [5414]

Kangaroo ACCGCTACTGGTCAGTGAGCCGTGCTCTGGAATACAACTCCAAGAGGACCCCCCGAAGGA [5443]

Hedgehog ACCGCTACTGGGCTGTGAGCCGCGCGCTCGAGTACAACTCCAAGCGCACCCCTCGCCGCA [5096]

Mole ACCGCTACTGGGCCGTGAGCCGAGCCCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5361]

Sloth ACCGCTACTGGGCCGTGAGCCGCGCGCTCGAGTACAACTCCAAGCGCACGCCGCGCCGCA [5230]

Pangolin ACCGCTACTGGGCGGTGAGCCGAGCACTGGAGTACAACTCCAAGCGCACCCCACGCCGCA [5235]

Rat ACAGGTACTGGGCAGTGAGCCGAGCATTGGAGTACAACTCCAAGCGCACTCCGTGCCGCA [5405]

Capybara ATCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5347]

Rabbit ACCGCTACTGGGCCGTGAGCCGGGCTTTGGAGTACAACTGCAAGCGCACCCCGCGGCGGA [5115]

Round\_Eared\_Bat ACCGCTACTGGGCTGTGAGCCGCGCTCTGGAGTACAACTCCAAGCGTACCCCGCGCCGCA [5316]

Flying\_Fox ACCGCTACTGGGCCGTGAGTCGCGCCCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5276]

Aardvark ACCGCTACTGGGCAGTGAGTCGCGCGCTCGAGTACAACTCCAAGCGCACCCCACGCCGCA [5412]

Elephant\_Shrew ACCGCTACTGGGCGGTGAGCCGCGCTCTCGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5135]

Hyrax ACCGCTACTGGGCAGTGAGCCGTGCGCTTGAGTACAACTCTAAGCGCACCCCGCGCCGCA [5168]

Dugong ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGTA [5216]

Elephant ACCGCTACTGGGCCGTGAGCCGCGCGCTCCAGTACAACTCCAAGCGCACCCCGCGCCGCA [5252]

Pig ACCGCTACTGGGCAGTGAGCCGCGCGTTGGAGTACAACTCCAAGCGCACCCCGCGGCGCA [5401]

Cow ACCGCTACTGGGCAGTGAGCCGGGCCCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5447]

Hippo ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5259]

Whale ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5269]

Horse ACCGCTACTGGGCCGTGACGCGCGCGCTGGAGTACAACACCAAGCGCACCCCGCGCCGCA [5444]

Rhino ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCGAAGCGCACCCCGCGCCGCA [5432]

Cat ACAGGTACTGGGCCGTGAGTCGGGCGCTGGAGTACAACTCCAAGCGCACCCCACGCCGCA [5330]

Dog ACCGCTACTGGGCTGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5419]

Human ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5443]

Galago ACCGCTACTGGGCAGTGAGCCGCGCGCTGGAGTACAACTCCAAACGCACCCCACGTCGCA [5386]

Flying\_Lemur ACCGCTACTGGGCGGTGAGCCGCGCTCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5375]

Tree\_Shrew ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACCCCGCGCCGCA [5302]

Madagascar\_Hedgehog ACCGCTACTGGGCCGTGAGCCGCGCGCTGGAGTACAACTCCAAGCGCACGCCGCGGCGCA [4162]

Golden\_Mole ACCGCTACTGGGCAGTGAGCCGCGCGCTAGAGTACAACTCCAAGCGCACCCCACGCCGCA [4164]

[ 5710 5720 5730 5740 5750 5760]

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Opossum TTAAGGGCATTATTCTCACTGTCTGGCTTATTGCTGCCTTCATCTCACTGCCCCCACTCA [5474]

Kangaroo TTAAGGGCATCATTCTCACTGTCTGGCTTATTGCTGCCTTCATCTCACTGCCCCCACTCA [5503]

Hedgehog TCAAGTGCATCATCCTCACCGTGTGGCTCATTGCAGCGGTCATCTCCCTGCCGCCCCTCA [5156]

Mole TCAAGTGCATCATCCTCATGGTGTGGCTCATCGCAGCTGTCATCTCGCTGCCATCCCTTG [5421]

Sloth TCAAGCGCACCATCCTGGTCGTGTGGCTCATCGCGGCCGCCATCTCGCTGCCGCCCCTCG [5290]

Pangolin TCAAGTGCATCATCCTCACCGTGTGGCTCATTGCGGCGGTCATCTCGCTGCCGCCCCTTA [5295]

Rat TCAAGTGCATCATCCTCACTGTGTGGCTCATTGCAGCTGTCATTTCTCTACCGCCCCTCA [5465]

Capybara TCAAATGCATCATCCTCACCGTGTGGCTCATAGCAGCCGTCATCTCGCTGCCGCCTCTCA [5407]

Rabbit TCAAGTGTATCATCCTCACCGTGTGGCTCATCGCCGCCGCCATCTCGCTGCCCCCCCTCA [5175]

Round\_Eared\_Bat TCAAGTGCATCATTCTCACCGTATGGCTCATCGCAGCTGTCATCTCGCTGCCGCCTCTCG [5376]

Flying\_Fox TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCGGCTGTCATCTCGCTGCCACCCCTCA [5336]

Aardvark TCAAGTGCATCATCCTCACTGTGTGGCTCATTGCAGCAGCCATCTCGCTGCCGCCCCTCA [5472]

Elephant\_Shrew TCAAGTGCATCATCCTCACCGTGTGGCTCATTGCTGCTGCCATCTCCCTGCCGCCCCTCA [5195]

Hyrax TCAAGTGCATCATCCTCACTGTGTGGCTCATTGCAGCCGCCATCTCGCTTCCGCCCCTCA [5228]

Dugong TCAAGTGCATCATCCTGACGGTGTGGCTCATTGCAGCCGCCATCTCGCTGCCGCCCCTCA [5276]

Elephant TCAAGTGCGTCATCCTCACTGTATGGCTCATTGCAGCCGCCATCTCACTGCCGCCCCTTA [5312]

Pig TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCAGCTGTCATCTCGCTGCCGCCTCTTA [5461]

Cow TCAAGTTCATCATCCTCATCGTATGGCTCATCGCAGCGGTTATCTCGCTGCCGCCCCTCA [5507]

Hippo TCAAATGCATCATTCTAACCGTGTGGCTCATCGCAGCCGTCATCTCGCTGCCGCCCCTCA [5319]

Whale TCAAGTGCGTCATCCTCACCGTGTGGCTCATCGCAGCTGTCATCTCGCTGCCGCCCCTCA [5329]

Horse TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCAGCTGTCATCTCGCTGCCGCCCCTTA [5504]

Rhino TCAAGTGCATCATCCTCACGGTGTGGCTCATCGCAGCTGTCATCTCGCTGCCGCCCCTTA [5492]

Cat TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCAGCTGTCATCTCCCTGCCGCCGCTTA [5390]

Dog TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCAGCGGTCATCTCCCTGCCACCGCTTA [5479]

Human TCAAGTGCATCATCCTCACTGTGTGGCTCATCGCCGCCGTCATCTCGCTGCCGCCCCTCA [5503]

Galago TCAAGTGCATCATCCTCACTGTGTGGCTTATCGCGGCCGTCATATCGCTGCCTCCCCTCA [5446]

Flying\_Lemur TCAAGTGCATCATCCTTACCGTGTGGCTCATCGCAGCCGTCATTTCGCTGCCGCCCCTCA [5435]

Tree\_Shrew TCAAGTGCATCATCCTCACCGTGTGGCTCATCGCAGCCGTCATCTCGCTGCCGCCCCTCA [5362]

Madagascar\_Hedgehog TCAA?GGTATCATCCTCACCGTGTGGCTCATCGCCGCAGCCATCTCGCTGCCGCCCCTCA [4222]

Golden\_Mole TCAAGTGCATCATACTCACTGTGTGGCTCATCGCAGCCGCCATCTCGCTGCCACCTCTCA [4224]

[ 5770 5780 5790 5800 5810 5820]

[ . . . . . .]

Opossum TCTACAAGGGAGACAAGGGCAAGAAACCAGGAGGCCGGCCCCAGTGTAAGCTTAATGAAG [5534]

Kangaroo TCTACAAGGGTGACAAGGGCAAGAAATCTGGAGGCCGACCCCAGTGCAAGCTTAATGAGG [5563]

Hedgehog TCTACAAGGGTGACCAGGGCCCTCAGCCCCGGGGGCGTCCCCAGTGCAAACTCAACCAGG [5216]

Mole TCTACAAGGGCGACCAGGGCCCCCAGCCCAGTGGCGCCCCCCAGTGCAATCTCAATCAAG [5481]

Sloth TCTACAAGGGGGACCCGGGCCCCCAGCCCCGCGGGCGCCCCCAGTGCAAGCTCAACCAGG [5350]

Pangolin TTTACAAGGGTGACCAGGGTTCGCAGCCCCGCGGGCGCCCTCAGTGCAAGCTCAACCAAG [5355]

Rat TCTACAAGGGCGACCAACGCCCCGACGCCCGCGGGCTCCCCCAGTGTGAGCTCAACCAGG [5525]

Capybara TCTACAAGGGCGACCAGGGCCCCCAGCCCCGCGGCTCCCCCCAGTGCAAGATCAACCAAG [5467]

Rabbit TCTACAAGGGCGACCAGGGCCCCCAGCCCCACGGCGCCCCGCAGTGCAAGCTCAACCAAG [5235]

Round\_Eared\_Bat TCTACAAGGGCGACCCGGGCCCCCAACCCCGCGGGCGCCCGCAGTGCAAGCTCAACCAAG [5436]

Flying\_Fox TCTATAAGGGAGACCAGGGCCCCCAGCCCCATGGCGCCCCGCAGTGCAAGCTCAACCAAG [5396]

Aardvark TTTACAAGGGGGACCAGGGCCCCCAACCCCGCGGACGCCCCCAGTGCAAGCTCAACCAAG [5532]

Elephant\_Shrew TTTACAAGGGTGACCAGGACCCCCAGCCCCGCGGGCGCCCCCAGTGCAAGCTCAACCAGG [5255]

Hyrax TTTACAAGGGCGACCAGGGGCCCCAACCCCGTGGGCGACCCCAGTGCATGCTCAACCAAG [5288]

Dugong TTTACAAGGGCGACCAGGGCCCCCAACCCCGCGGGCGCCCCCAGTGCAAGCTCAACCAAG [5336]

Elephant TTTACAAGGGCGACCAGGGCCCCCAGCCCCGCGGGCGCCCCCAGTGCAAGCTCAACCAAG [5372]

Pig TCTACAAGGGCGACCCGGGTCCCCAGCCCCGGGGGCGCCCTCAATGCAAGCTCAATCAAG [5521]

Cow TCTACAAGGGCGACCAGGGTCCCCAGCCCCTGGCCCGCCCTCAGTGCAAGCTCAACCAAG [5567]

Hippo TCTACAAGGGCGACCAGGCTCCCCAGCCCCGCGGGCGCCCTCAGTGCAAGCTCAACCAAG [5379]

Whale TCTACAAGGGCGACCCGGGTCCCCAGCCCCGAGGGCGCCCTCAGTGCAAGCTCAACCAAG [5389]

Horse TCTACAAGGGGGACCAGGGCCCCCAGCCGCGCGGGCGGCCGCAGTGCAAGCTCAACCAAG [5564]

Rhino TCTACAAGGGCGACCAGGGCCCCCAGCCCCGCGGGCGCCCGCAGTGCAAGCTCAACCAAG [5552]

Cat TCTACAAGGGCGACCAGGGGCCCCAGCCTCGTGGGCGCCCGCAGTGCAAACTTAACCAAG [5450]

Dog TCTACAAGGGCGACCAGGGGCCCCAGCCCGCGGGCGCCCCCCAGTGCAAACTCAACCAAG [5539]

Human TCTACAAGGGCGACCAGGGCCCCCAGCCGCGCGGGCGCCCCCAGTGCAAGCTCAACCAGG [5563]

Galago TCTACAAGGGCGACCAGCGACCCCAGCCTCGTGGGCGCCCTCAGTGCAAGCTCAACCAAG [5506]

Flying\_Lemur TCTACAAGGGCGATCAGGGCCCGCAGCCTCTGGGGCGCCCCCAGTGCAAGCTCAACGAAG [5495]

Tree\_Shrew TCTACAAGGGCGACCAGGGCCCCCAACCCCGAGGGCGCCCCCAGTGCAAGCTCAACCAAG [5422]

Madagascar\_Hedgehog TTTACAAGGGCGACCAGGGCCCCCAGCCCCACGGGCGCCCCCAGTGCCGGCTCAACCAGG [4282]

Golden\_Mole TTTACAAGGGCGACCAGGGTCCCCAGCCCCACGGGCGCCCCCAGTGCAAGCTCAACCAAG [4284]

[ 5830 5840 5850 5860 5870 5880]

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Opossum AGGCCTGGTACATCCTCTCCTCCAGCATTGGCTCCTTCTTTGCACCCTGCCTTATCATGA [5594]

Kangaroo AGGCCTGGTACATCCTCTCCTCTAGCATTGGTTCCTTCTTTGCACCCTGCCTCATCATGA [5623]

Hedgehog AAGCCTGGTACATCTTGGCCTCCAGCATCGGATCCTTCTTCGCACCCTGCCTCATCATGA [5276]

Mole AGACCTGGTACATCCTGGCCTCCAGCATTGGATCCTTCTTTGCACCCTGCCTCATCATGA [5541]

Sloth AGGCCTGGTACATCCTGGCCTCCAGCGTCGGCTCCTTCTTCGCGCCCTGCCTCATCATGG [5410]

Pangolin AGGCCTGGTACATCCTGGCCTCCAGCATCGGATCCTTCTTCGCACCCTGCCTTATCATGA [5415]

Rat AGGCCTGGTACATCTTGGCTTCCAGCATCGGATCTTTTTTTGCTCCCTGCCTCATCATGA [5585]

Capybara AGGCGTGGTACATCTTGGCCTCCAGCATCGGAAGTTTCTTTGCCCCCTGCCTCATCATGA [5527]

Rabbit AGGCCTGGTACATCTTGTCCTCCAGCTTGGGCTCCTTCTTTGTGCCCTGTCTCATCATGA [5295]

Round\_Eared\_Bat AGGCCTGGTACATCCTGGCCTCGAGCATCGGGTCCTTCTTCGCACCCTGCCTCATCATGA [5496]

Flying\_Fox AGGCCTGGTATATCCTGGCCTCCAGCATTGGGTCTTTCTTTGCGCCCTGCCTCATCATGA [5456]

Aardvark AGGCCTGGTACATCCTCTCCTCCAGCATCGGCTCCTTCTTTGCACCCTGCCTCATCATGA [5592]

Elephant\_Shrew AAGCCTGGTACATTCTGTCCTCCAGCATCGGCTCCTTCTTCGTTCCCTGTCTCATCATGA [5315]

Hyrax AGGCCTGGTACATTCTGTCCTCCAGCATCGGCTCTTTTTTTGCACCCTGCCTCATCATGA [5348]

Dugong AGGCCTGGTACATCCTGTCCTCCAGCATCGGCTCCTTTTTTGCACCCTGCCTCATCATGA [5396]

Elephant AGGCCTGGTACATCCTGTCCTCCAGCATCGGCTCCTTTTTCGCACCCTGCCTCATCATGA [5432]

Pig AGGCCTGGTACATCCTGGCCTCCAGCATTGGCTCTTTCTTTGCACCCTGCCTTATCATGA [5581]

Cow AGGCCTGGTATATTCTTGCCTCCAGCATTGGATCTTTCTTTGCACCCTGCCTTATCATGA [5627]

Hippo AGGCCTGGTACATCCTGGCCTCCAGCATTGGATCTTTCTTTGCACCCTGCCTTATCATGA [5439]

Whale AGGCCTGGTACATCCTGGCCTCCAGCATTGGATCTTTCTTTGCACCCTGCCTTATCATGA [5449]

Horse AGGCCTGGTATATCCTGGCCTCCAGCATCGGATCCTTCTTTGCACCCTGCCTCATCATGA [5624]

Rhino AGGCCTGGTATATCCTGGCCTCCAGCATTGGCTCCTTCTTCGCACCCTGCCTCATCATGA [5612]

Cat AGGCCTGGTACATCCTGGCCTCTAGCATCGGATCTTTCTTTGCACCCTGCCTCATCATGA [5510]

Dog AGGCCTGGTACATCCTGGCCTCTAGCATCGGGTCCTTCTTCGCACCCTGCCTCATCATGA [5599]

Human AGGCCTGGTACATCCTGGCCTCCAGCATCGGATCTTTCTTTGCTCCTTGCCTCATCATGA [5623]

Galago AGGCCTGGTACATCCTATCCTCTAGCATTGGATCTTTCTTTGCTCCTTGCCTCATCATGA [5566]

Flying\_Lemur AGGCCTGGTACATCCTGGCCTCCAGCATCGGATCTTTCTTCGCTCCCTGCCTCATTATGA [5555]

Tree\_Shrew AGGCCTGGTACATCTTGGCCTCCAGCATCGGCTCTTTCTTTGCTCCCTGCCTCATCATGA [5482]

Madagascar\_Hedgehog AAGCCTGGTACATCCTCTCCTCTAGCATTGGCTCCTTCTTCGCACCCTGTCTCATCATGA [4342]

Golden\_Mole AGGCCTGGTACATCCTGTCTTCCAGCATTGGCTCCTTCTTTGCACCCTGCCTCATCATGA [4344]

[ 5890 5900 5910 5920 5930 5940]

[ . . . . . .]

Opossum TCCTGGTCTACTTGCGGATCTACCTGATTGCTAAGCGACGTAAC---CGCCAGGGGCCCC [5651]

Kangaroo TTCTGGTCTACTTGCGGATCTACCTAATTGCCAAGCGCCGTAAC---CGCCAGGGGCCCC [5680]

Hedgehog TCCTTGTCTACCTGCGCATCTACCTGATCGCCAAACGCAGCCAC---TGCAGAGGCCCCA [5333]

Mole TCCTTGTCTACCTGCGCATCTATCTGATTGCCAAACGCAGCCAC---TGCAGAGGTCCCA [5598]

Sloth TCCTCGTCTACCTGCGCATCTACCTGATCGCCAAGCGCAGCCAC---CGCCGGCGCCCCA [5467]

Pangolin TCCTTGTCTACCTGCGCATCTACCTGATCGCCAAACGCAGCCAT---CGCAGAGGTCCCA [5472]

Rat TCCTCGTCTACCTGCGAATCTACGTGATTGCCAAACGCAGCCAC---TGCAGAGGTCTCG [5642]

Capybara TCCTGGTGTACCTGCGCATTTACCTGATTGCCAAGCGCAGCAAC---CGCAGGGGTCCCA [5584]

Rabbit TCCTCGTCTACCTGCGTATCTACCTGATCGCCAAACGCAGCCAC---CGCAGAGGTCCCA [5352]

Round\_Eared\_Bat TCCTCGTCTACCTGCGCATCTACCTGATCGCTAAACGTAGCCAC---CGCAGAGGTCCCA [5553]

Flying\_Fox TCCTAGTCTACCTGCGCATCTACCTGATCGCCAAGCGCAGCCAC---CGCAGAGGTCCCA [5513]

Aardvark TCCTGGTCTACCTGCGCATCTACGTGATTGCCAAACGCAGCAAC---CGCCGAGGGCCCA [5649]

Elephant\_Shrew TCCTCGTCTACTTGCGCATCTATCTGATCGCCAAACGCAGCAGCAGCCGCCGAAAGCCCA [5375]

Hyrax TCCTGGTTTACCTGCGAATCTACCTGATTGCCAAACGCAGCAAC---CGCAGAGGGCCCA [5405]

Dugong TCCTTGTCTACCTGCGCATCTACCTGATTGCCAAACGCAGCCAC---CGCCGAGGGCCCG [5453]

Elephant TCCTCGTCTACCTGCGCATCTACCTGATTGCCAAACGTAGCAAC---CGCCGAGGGCCCA [5489]

Pig TCCTTGTTTACCTGCGCATCTACTTGATCGCTAAGCGCAGCCAC---CGCAGAGGCCCTA [5638]

Cow TCCTGGTCTACCTGCGCATCTACCTGATTGCCAAGCGCAGCCAC---TGCAGAGGCCCCA [5684]

Hippo TCCTTGTCTACCTGCGCATCTACCTGATCGCCAAGCGCAGCCAC---CGCAGAGGCCCCA [5496]

Whale TCCTTGTCTACCTGCGGATCTATCTGATCGCCAAGCGCAGCCAC---CGCAGAGGTCCCA [5506]

Horse TCCTTGTCTACCTGCGCATCTACCTGATTGCTAAACGCAGCCAC---CTCAGAGGTCCCA [5681]

Rhino TCCTCGTCTACCTGCGCATCTACTTGATTGCTAAACGCAGCCAC---CTCAGAGGTCCCA [5669]

Cat TCCTGGTCTACCTGCGCATCTACCTGATCGCCAAGCGCAGCCAC---CGCAGAGGTCCCA [5567]

Dog TCCTTGTCTACCTGCGCATCTACCTGATTGCCAAACGCAGCCAC---CGCAGAGGTCCCG [5656]

Human TCCTTGTCTACCTGCGCATCTACCTGATCGCCAAACGCAGCAAC---CGCAGAGGTCCCA [5680]

Galago TCCTTGTCTACCTGCGCATCTATCTGATTGCCAAACGCAGCCAC---CGCAGAGGTCCCA [5623]

Flying\_Lemur TCCTCGTCTACCTGCGCATTTATATGATCGCCAAACGCAGCAAC---CGCAGAGGTCCCA [5612]

Tree\_Shrew TCCTTGTCTACCTGCGCATCTATCTGATCGCCAAACGCAGCAAC---CGCAGAGGTCCCA [5539]

Madagascar\_Hedgehog TCCTCGTCTACCTGCGCATCTACCTGATCGCCAAGCGCAGAAAC---CG?CGGGGGCCCA [4399]

Golden\_Mole TCCTCGTTTACCTGCGCATCTACCTGATTGCCAAACGCAGCAAC---CGCCGAGGGCCCA [4401]

[ 5950 5960 5970 5980 5990 6000]

[ . . . . . .]

Opossum ACGGCAAGCAGGCCCCTGGTGATGGAGACACGGGG---CCG---TCTGCCCTGGGGGGTA [5705]

Kangaroo ATGGGAAGCGGGCCCTCAGTGATGGGGACACTGGG---CCC---TCTGGCCCTGGTGGAG [5734]

Hedgehog GGGCCAAGGGAGCCCCTGGGAAGGGTGAGTCTAAGCAGACGGGCCAGGCCTCCCTGGGAG [5393]

Mole GGGCCAAGGGAGCCCCTGGGAAGAGTAAGTTTAAGCAGTCCCGCCAGGTCCCTGGTGGAA [5658]

Sloth GGGCCAAGGGCGCGCCC------GGGGAGGCCAGGCAGCCCCGCCCCCTTCCAGAGGGGG [5521]

Pangolin GGGCTAAGTGGGGCCCTCGTGAGGGTGAGTCTAAGCAGCCCTGCTGGGTCCCTGGGGGAG [5532]

Rat GAGCCAAGAGGGGCTCTGGAGAAGGTGAGTCCAAGAAGCCCCAGCCGGTTGCTGGGGGAG [5702]

Capybara GGGCCAAAGGCGGCCCAGGGGAGGGGCAGTCAAAGGAGTCTCGTCCCTTACCCGGAGGGG [5644]

Rabbit GAGCCAAGGGGGGTCCCGGGGAGGGAGAGTCCAGGCAGGCCTGCCCTGTCCCTGGGGGCC [5412]

Round\_Eared\_Bat GGGCCAAGGGGAGCCCTGGGGAGGGTCAATCTAAGCAGCCCCACCCGGTCCCTGGGGGAG [5613]

Flying\_Fox GGGCCAAGGGGGGCCTCAGGGACAGTGAGTCTAAGCAGCCCCACAGGGTCCCTGGGGGAC [5573]

Aardvark GGGCCAAGGGGGCCTCCAGGGAGGGTAAGTCCAAGCAGCCCCATCCCTTCCCTGCAGGGG [5709]

Elephant\_Shrew GGGCCAAGGGGGCCCCCAGGGAGGGTGAGTCCAAGCAGCCCCAGCTCCGCCCCGTTGGGA [5435]

Hyrax GGGCCAAGGGGGCCCCCGGGGAGGGTGAGTCCAAGCAGCCTCATCCCCTCACTGCAGGGC [5465]

Dugong GGGCAAAGGG?GGCCCCAGGAAGGGTGAGTCCAAGCAGCCCCATTCCCTCGATTCAGGGC [5513]

Elephant GGGCCAAGGGAGCCCCCAGGGAGGGTGAGCCCAAGCAGCCCCATCCCCTCCCTGCAGGGC [5549]

Pig GGGCTAAGGGGGGCCCTGGGAAGGGGGAGTCTAAGCAGCCCCGCCCAGTCCCTGGGGAAG [5698]

Cow GGGCCAAAGGGGGGCCTGGGGAGAGGGAGTCTAAGCAGCCACACCCTGTCCCTGGGGAAG [5744]

Hippo GGGCCAAGCGGGGCCCCGGGGAGGGT------AAGCAGCCCCGCCCTGCCCCTGGGGAAG [5550]

Whale GGGCCAAGGGGGGCCCTGGGGAGCGTGGGTCTAAGCAGCCCCGCCCTGTCCCTGGGGAAG [5566]

Horse GGGCCAAGGGAGGCCCTGGGGGAGGTGGGTCTAAGCAGCCCCACCCAGTCCCTGCAGGAG [5741]

Rhino GGGCCAAGCGGGGCCCTGGGGAGGGTGAGTTTAAGCAGCCTCGCCCAGTCCCCGAGGGAG [5729]

Cat GGGCCAAGGGCCGCCCTAGGGAGGGTGAGTCTAAGCAGCCCCGCCCCGTCCCTACTGGAA [5627]

Dog GGGCCAAGGGGGGCCCTGGGCCGGGTGAGTCTAAGCAGCCCCGCTCAGTCCCTACGGGAA [5716]

Human GGGCCAAGGGGGGGCCTGGGCAGGGTGAGTCCAAGCAGCCCCGACCCGACCATGGTGGGG [5740]

Galago GGGCCAAGGCTGGCCCTGGGAAGGGTGAGTCCAAGCAGCCCCAACCAGTCCCTGGGGGGG [5683]

Flying\_Lemur GGGCCAGGGGGGGCCCTGGGGAGGGTGAGTCCAAGCAGCGCCGCCCTGGCCCTGGGGGGG [5672]

Tree\_Shrew GGGCCAAGCGGGGTCCTCGGGAGGGTGGGTCCAAGCAGCCCCGCCCTGTCCCTGGCCGGG [5599]

Madagascar\_Hedgehog GGGCCCAGGGCGCCTCCAAGGGTGGGGCTTCCAAGCAGCCCCATCCCCTTGCTGGAGGGG [4459]

Golden\_Mole GGGCCAAGGGGGCCACCAGGGAGGGTGAGTCCAAGCTGCCCCATCCCATGGCTGCAGGGG [4461]

[ 6010 6020 6030 6040 6050 6060]

[ . . . . . .]

Opossum CATCTACAATATCTAAGCTTCCA------CCCTCCATTCTCCCAGCTGTGGGTGAGGCCA [5759]

Kangaroo CGTCTGCAATATCTAAACTACCA------TCCTCTGTTCTCTCAGCTGTGGGTGAGGCCA [5788]

Hedgehog CTCCAAGCTCAGCCAAACTGCCAAACCTGGTCTCTCGTTTGGTTGCTGCCAGAGAGGCCA [5453]

Mole CTTTAGCCTCAGCCAAGGTGCCAAACCTGGCCGCTCATCTGGTTGCTGCCGGAGAGACCA [5718]

Sloth CTGCGGCTGCAGCCAAGGGGCCCACTTTGGCCTCTCCTGGGACCACTGCCGTAGAGGCCA [5581]

Pangolin CTTCA------GCTACACTGCCAACCCTGGCTTCT---CTGGCCGCTTCTGGAGAGGCCA [5583]

Rat TGCCAACCTCAGCTAAGGTGCCCACCCTGGTCTCTCCTCTATCTTCTGTTGGAGAGGCCA [5762]

Capybara CTCCAGCCTCTGCCAAGGTGCCACCCCTGGCCTCACCTCTGTCTTCTACTGGAGAGGCCA [5704]

Rabbit CTTCTGCCTCTGCCAAGCTGCCAACCCTGGCCACTCCTGTGGCTTCTGCCAGCGAGGCCA [5472]

Round\_Eared\_Bat CCTCA------GTCAAACAGCCAACCCTGGCCCCTCATTTGGCTGCTTCGGGAGAGGCCA [5667]

Flying\_Fox CGTCA------------------ACCCTGGCCTCTTGTCTGCCTGCCTCTGGAGAGGCCG [5615]

Aardvark CTTCT---TCAGCCAGGCCACCAACCCTGACCTCTTCTCTGGCTGTTGCTGGAGAGGCCA [5766]

Elephant\_Shrew CTTCAGTCTCCGCTAGGCCACCTGCCCTGACCTCCCCTCTGGCTGTCACTGGGGAGGCCA [5495]

Hyrax CTTTGGCCTTAGCTAATCCACCAACGCTGGCCACTTCTCTGGCTGTTGATGGGGAGGCCA [5525]

Dugong CTTCAGCCTTAGCCAATCTGCCAACCCTGGCCTCTTCCCTGGCTGTTGCTGGGGAAGCCA [5573]

Elephant CTTCAGCCTTAGCCAATTCACCAACACTGGCCTCTTCTCTGGCTGTTACTGGGGAGGCCA [5609]

Pig TTTCAGCCTCAGCCAAGTTGCCAACCTTGGTCTCTCAACTGGCCACTGCTGGAGAGACCA [5758]

Cow TTTCAGACTCAGCCAAACTGCCAACCTTGGCCTCTCAACTGGCTACTCCTGGAGAGGCCA [5804]

Hippo TTTCAGCCTCAGCCACATTGCCCACTCGTGCCCCTCAACTGGCTGCTGCTGGAGAGGCCA [5610]

Whale TTTCAGCCTCAGCCAGATTGCCAACTCTGGCCTCTCAACTGGCTACTGCTGGAGAGGCCA [5626]

Horse CTTCAGCCTCAGCCAAACTGCCCACTGTGGCCTCTTGTCTGGCTGCTGCCGGAGAGGCCA [5801]

Rhino CTTCAGCCTCAGCCAAGCTGCCAACCCTGGCATCTCATCTGGCTGCTGCCGGAGAGGCCA [5789]

Cat CTTCA------ACCAAAATGCCAACCCTGGCCTCT---CTGGCTGCTTCTGGAGAGGCCA [5678]

Dog CTTCA------ACCAAACTGCCAACCTTGGCCTCT---CTGGCTGCTTCTGAGGAGGCCA [5767]

Human CTTTGGCCTCAGCCAAACTGCCAGCCCTGGCCTCT---GTGGCTTCTGCCAGAGAGGTCA [5797]

Galago CTTTGGCCTCAGCTAAGCGGCCAACCCCAGCCTCTGCTCTGGCTTCTGCTGGAGAGGCCA [5743]

Flying\_Lemur CCTTGGCTTCAGCCAAGCTGCCAGCCCAGGCCTCTCCGCTGGCTTCTGCGGGAGAGGCCA [5732]

Tree\_Shrew CTTCAGCCTCAGCCAAGCTACCAACCCTGGCCTCTTCTCTGGCTTCGGCAGGAGAGGCCA [5659]

Madagascar\_Hedgehog CTTCA------ACCAAGCCGCCAACCCTGACCTCTTCCCTGGCTGTTGCTGGAGAGGTCA [4513]

Golden\_Mole CTTCAGCCTCAGCCAAGCCACCAACCCTGACCTCTTCTTTGGCTGTTGCTGGAGAGGCCA [4521]

[ 6070 6080 6090 6100 6110 6120]

[ . . . . . .]

Opossum ATGGACATTCCAAGCCT---CCTGGAGAGAGAGAG---GGAGGGGAACAGATGGGAGATC [5813]

Kangaroo ATGGACATTCCAAGCCT---GCTGGGGAGAGAGAA---GGTGGGGAACAGATTGGAGACC [5842]

Hedgehog ATAGACACTCCAAGTCC---ACTGGGGAGAAAGTC---GAAGGGGAGACCCCTGAAGGTC [5507]

Mole ATGGACGCTCCAAGCCC---ACTGGGGAGAAGGAA---ATGGGGGAGACCCCTGAAGATT [5772]

Sloth CTGGCCACTCCCAGGCTATGGAAGGAGACGAG------GAGGGACGTGCCCCGGAAGATC [5635]

Pangolin ATGGACACTCCAAGCCC---ATTGGGGAGAAGAGA---GAGGGGGAGACCCCTGAAGATC [5637]

Rat ATGGACACCCCAAGCCT---CCAAGAGAGAAGGAG---GAGGGGGAGACCCCTGAAGATC [5816]

Capybara ATGGACACCCCAAGCCT---ACTGGGGAGAAGGAG---GAGGGGGAGACCTCTGAAGACC [5758]

Rabbit ATGGACCCTCCAAGCCT---GCTGGGGAGAAGGAG---GAAGGGGAGACCCCCGAAGACC [5526]

Round\_Eared\_Bat ATGGACCT---AAGTCC---CCTGGGGAGAAGGAG---CAGGGGAGGATCCCTGAAGATC [5718]

Flying\_Fox GCAGACCCTCCAAGCCC---ACTGGGGAGAAGGAG---CAGGGGGAAACC---GAAGATC [5666]

Aardvark ATGGACACTCTAAGCCC---ACTGGAGAGAAG------GAGGGGAAGACGCCAGAAGATC [5817]

Elephant\_Shrew ATGGGCATTCTAAGCCC---ACTGGGGAA---------AGG---GAGACTCCAGAAGATC [5540]

Hyrax ATGGACACTCTAAGCTC---ACTGGGGAGAAG------GAGAGGGAGACTTCGGAAGATC [5576]

Dugong ATGGACACTCTATGCCC---CCTGGGGAGAAG------GAGAGGGAGACTTCAGAAGATC [5624]

Elephant ATGGACACTCTGAGCCA---CCTGGGGAGAAG------GAGAGGGAGACACCAGAAGATC [5660]

Pig ATGGGTGCTCTCAGCAC---ACTGGGGAGAAGGAT---GAAGGGGAGACCTCTGAAGACA [5812]

Cow ACGGATGCTCCCAACCTCGCCCAGGGGAGAAGGGT---GACGGGGAGACCCCTGAAGCCC [5861]

Hippo ACGGATGCTCCCAGCCC---ACTGGGGAGAAGGAT---GAGGGGGAGACCCCTGAAGACT [5664]

Whale ATGGATGCTCCCAGCCC---ACTGGGCAGAAGGAC---GAGGGGGAGACCCCTGAAGACC [5680]

Horse ATGGACACTCCGAGCCC---ACTGGGGAGAAG------GAGGCAGAGACCCCTGAAAATT [5852]

Rhino ACGGACAGTCCACGCCC---ACCGGGGAGGAGGAGGAGGAGGGGGAGACCCCT------- [5839]

Cat ATGGTCACTCCAAGCCC---ACTGGGGCGAAGGAG---GAGGGGGAGACCCCTGAAGATC [5732]

Dog ATGGACACTCTAAGCCT---ACCGGGGAGAAG------GAGGGGGATACCCCTGAAGATC [5818]

Human ACGGACACTCGAAGTCC---ACTGGGGAGAAGGAG---GAGGGGGAGACCCCTGAAGATA [5851]

Galago ATGGATGCTCCAAGCCC---CCTGGAGAGAAGGAG---GAAGGAGAGACGCTTGAGGATG [5797]

Flying\_Lemur ATGGACAGTCCAAACCC---ACTGGGGAGAAGGAG---GAGGGGGAGATCTCTGAAGATC [5786]

Tree\_Shrew ATGGGCACTCCAAGCCT---CCTGGGAACAGGGAG---GAGGGGGAGCCCCCTGGAGATC [5713]

Madagascar\_Hedgehog ATGGACACTCTAAGCCC---ACCGGGCAG---------GAGGGCAAGACCCCAGAAGATC [4561]

Golden\_Mole ATGGACACTCTAAGCCC---ACTGGAGAG---------GAAGGGGAAACTCTCGAAGATC [4569]

[ 6130 6140 6150 6160 6170 6180]

[ . . . . . .]

Opossum CCACGTCACCTTCCACACCTCCCAACCAG------------AGCTCT------GTGGGGC [5855]

Kangaroo CA------CCTTCCACAACTCCCAACCAG------------AGCTCT------GTGGGGC [5878]

Hedgehog CTGGGACTCCGGGGGTGCCACCCAGCTGGCCTCCTCTCCCCAGCTCA---GGTCGGGGTC [5564]

Mole CTGGAACTTCTACCTTGCCACCCAGCTGGCCTGCTCTTCCCAACTCA---GGCCAAGATC [5829]

Sloth CTGGAGTCCAGGCCTTGTCGCCCGGCTGGCCTGCCCTT---TCCAGCCCAGGCCAGGGCC [5692]

Pangolin CAGGGACTCCCGCCTTGCCACCCAGCTGGTCTGCCCTTCCCAACTCA---GGTCAGGGTC [5694]

Rat CTGAGGCCAGGGCTTTGCCCCCAACTTGGTCTGCCCTTCCCAGATCA---GGCCAAGGCC [5873]

Capybara CTGGGGCCAGGACTCTGCCACCCAGCTGGGCTGCACTGCCCACCTCA---GGCCAGGGCC [5815]

Rabbit CTGGGACCCAGGCCTTGCCGCCCGGCTGGGCCACCCTTCCCAACTCA---GGCCAGGGCC [5583]

Round\_Eared\_Bat CTGGGAGCCCCACCTTGCCACCTAGCTGGCCTTCCCGTCCCCATGCA---TGCCAGGATC [5775]

Flying\_Fox CTGGGAGCCCTGCCCTGCCACCTAGCTGGCCTGCCCTTCCCCATGGA---GGCCAGAGTC [5723]

Aardvark CTGGGACCCTGACGTTACCACCTAGCTGGCCTGCCTTTCCCAACTCA---GGTGAGGGCC [5874]

Elephant\_Shrew TAGTCTCCCCAGCATCGCCACCCAGCTGGCCTGCCATACCCAACTCA---GGCCAGGGCC [5597]

Hyrax CTGGGACCCCGACATTGCAACGCAGCTGGCCTGTCCTTCCCAGCTCA---GGGCAGAGCC [5633]

Dugong CTGGGACCCCGACATTGCCACCCAGCTGGCCTGTCCTTCCCAACTCA---GGCCAGGGCC [5681]

Elephant CTGGGACCCTGACATTGCCACCCAGCTGGCCTGTCCTTCCCAACTCA---GGCCAGGGCC [5717]

Pig CTGGGACCCCCGCTTTGCCACCCAGCTGGCCTGCCCTTCCCAGCTCG---GGCCAGGGTC [5869]

Cow CTGGCACTCCTGCCTTGCCACCCAGCTGGCCTGCCATCCCCAAGTCA---GGCCAGGGTC [5918]

Hippo CTGGGACCCCCGCCTTGCCACCCAGCTGGCCCGCCCTTCCCAGCTCA---GGCCAGGGTC [5721]

Whale CTGGGACCCCCGCCTTGCCCCCCAGCTGGCCTGCCCGTCCCAGCTCA---GGCCAGAGTC [5737]

Horse CTGGGACCCCTGCCTTGCCC?CCAGCTGGCCTGCCCTTCCTAGTTCA---GGCCAGGATC [5909]

Rhino --GGGACCTCTGCCTTGCCACCCAGCTGGCCTGCCCTTCCTAGCGCA---GGCCAGGATC [5894]

Cat CTGCCACCCCTGCCTTGCCACCCAGCTGGTCGGCCCTTCCCAACTCA---GGCCAGGGTC [5789]

Dog CTGGGACCCCTGCCTTGCCACCCAGCTGGTCAGCCCTTCCCAGCTCA---GGCCAGAGTC [5875]

Human CTGGGACCCGGGCCTTGCCACCCAGTTGGGCTGCCCTTCCCAACTCA---GGCCAGGGCC [5908]

Galago TTGGGAGCCGACCCTTGCCACCTGGCTGGGCTGCCCTTTCCAACTCA---GGGCAGGGCC [5854]

Flying\_Lemur CTGGGACCCAGACCTTGCCACCCAGCTGGACTGCTCTTCCCAACTCA---GGCCAGGGCC [5843]

Tree\_Shrew CTGGGACACAGGTCTTGCCACCCGGCTGGGCTGCTCTTGCCAGCTCA---GGCCAGGGCC [5770]

Madagascar\_Hedgehog TTGGGGTGGTGACATTGCCACCCAACTGGCCTGCCCTTCCCAACTCA---GGCCAGGGCC [4618]

Golden\_Mole CTGTGACCTCGACATTGCCACCTAGCTGGCCTGCCCTTCCCAACTCA---GACCAGGGTC [4626]

[ 6190 6200 6210 6220 6230 6240]

[ . . . . . .]

Opossum CAGAGGATGGC------------AGTCAGAAGCAATGTGGGCCTCCAGCCCCTCCAACTT [5903]

Kangaroo CAGAGGATGTC------------AGTCATAGGCAGTGTGGATCTCCAGCCCTTCCAACTT [5926]

Hedgehog AGGAGGAAGATATCTACAGGGCATCACCTGAGGAGTGTGAGCCTCAGGCTGTGCCTGTGT [5624]

Mole AAAAGGAAGGTATTTGTGAGGCATCTCTGGAGGAATGTGAGCCTCAGGCCTTGCCAGCAT [5889]

Sloth CGACGGAGGGCGCCTGCGGGGCCTCTCCAGAGCAGGCTGAGCCCAAGGTCCCCCCAGCCT [5752]

Pangolin AGAATGAAGGTGTTTGTGGGGCATCTCCGGAGGAGCATGAGCCTCAGGCCTTGCCAGCGT [5754]

Rat AGAAGAAGGGGACTAGTGGGGCGACTGCAGAGGAGTGTGAACCCCAAACACTGCCAGCAT [5933]

Capybara AGAAGAAGGCTGTGGTCCTGGCACCTGCAGAGGAGTGTGAGCCTCAGGCAGCGCCAGGCT [5875]

Rabbit AGAAAGAGGGTGTTTCGGGTGCATCTCTGGAGGAAGACGAGCCTCAGGCAGTGCCAGTGT [5643]

Round\_Eared\_Bat CAAAGGAAGGTGTCTGCGCACCCTCTCCAGAAGAGTGTGAGCCTCAGGCCTTGCCAGCAT [5835]

Flying\_Fox CGAAAGAAGCAGTTTGTGGGGTGTCTCTGGAGGAGTGTGAGCCTCAGGCCCTGCCAGCTT [5783]

Aardvark AGAAAGAGGGTATCTGTGGGACATCTCCAGAGGAGTGTGAACCTCAGGCTGCTCCAGCCT [5934]

Elephant\_Shrew GGAAGGAGGGTGTCTGTGGGACATCCCCAGAGGAATGTGGACCTGAGGCTGTGCCAGCCT [5657]

Hyrax AGAAGAAAGGTGTTTGTGGGGCATCTCCTGAGGAGAGTAGGCCTCTGTCCGTGCCAGCCT [5693]

Dugong AGAAGGGGGGTGTCTGTGGGGCATCTCTGGAGGAGTGTGGACCTCCCGCTGTGCCAGCCT [5741]

Elephant AGAAGGAGGGTGTCTGTGGGGCATCTCCGGAGGAGTGTGGCTCTCCGGCTGTCCCAGCCT [5777]

Pig AGAAGGAAGGTGTTTGTGGAACATCACCAGAGGAGTGTGAGCCTCAGACTTTGCCAGCCT [5929]

Cow AGAAGGAAGGGGTCTGTGGTTCATCTCCGGAGGAGTGTGAGCCGCAGGCCTTGCCGGCGT [5978]

Hippo AGAAGGAAGGTGTTTGTGGGACATCTCCAGAGGAGTGTGAGCCGCGGGCCTTGCCAGCGT [5781]

Whale AGAAGGAAGGTGTTGGTGGGACATCTCCAGAGGAGTGTGAGCCGAAGGCCTTGTCAGCGT [5797]

Horse AGAAGGAAGGAGTTTGTGGGGCATCTCTGGAGGAGTGTGAGCCTCAGGCGTTGCCAGCAT [5969]

Rhino AGAAGGAAGGTGTTTATGGGGCATCTCCGGAGGAGGGCGAGCCTCAGGCTTTGCCAGCAT [5954]

Cat GGAAGGAAGGTGTTTGTGGGGCATCTCCAGAGGAATGTGAGCCTCGGGCCTTGCCAGCAT [5849]

Dog AGAAGGAAGGTGTGTGTGGGGCATCTCCAGAGGAGTGTGAGCCTCAGGCCTTACCAGCGT [5935]

Human AGAAGGAGGGTGTTTGTGGGGCATCTCCAGAGGATTGTGAACCCCAGGCAGTGCCAGTGT [5968]

Galago AGAAGGAGGGTGTTTGTGGGGCATCTCCAGAGGAATGTGAGCCTAAGGCAGTGCCAGTGT [5914]

Flying\_Lemur AGAAGGAGGGTGTTTGTGGGGCGTCTCCAGGGGAGTGTGAGCCCCAGGCCGTGCCAGTGT [5903]

Tree\_Shrew AGAAGGAGGGTGTTCGTGAGGCCTCTCCAGAAGAGTGTGAGCCTCCGGAAGTGCCTGTGT [5830]

Madagascar\_Hedgehog AGAAGGAGGGTGTCTGTGGGATATCTCCA---GAGGGTGGGCCTGAGGCACTGCCAGCCT [4675]

Golden\_Mole AGAAGGAGGGTGTCTGTGAAACATCTCCAGAGGAGTGTGGACCCCAGGCTGTGCCAGTCT [4686]

[ 6250 6260 6270 6280 6290 6300]

[ . . . . . .]

Opossum CCTCTTCTCTCCAAGGAACCCCAAACTTTCAGCCTTCACAGGGTTCCCAGGTGTTAGCCA [5963]

Kangaroo CCTCCTCTCCCCAAGGAACCCCAAAC?TTCAGCCTCCCCAGGGCTCCCAGATGTTGGCCA [5986]

Hedgehog CTCCTGCCTCAGCTTGCAGCCCACCCCTGCAGCAGCCACAGGGCTCCAGAGTGCTGGCGA [5684]

Mole CTCCTGCCTCGGCTTGCAGCCCACCGCTGCAGCAGCCACAGGGCTCCCAGGTGCTGGCTA [5949]

Sloth CCCCTGACCCCGCTGGCAGCCCCCCGCTTCCGCCACCTCAGGGCTCCCGAGTGCTGGCCA [5812]

Pangolin CTCCTGCCTCGGTTTGCAGCCCACCCCTGCGGCAGCCACAGGGCTCCCGGGTGCTGGCGA [5814]

Rat CTCCTGCCTCGGTATGCAACCCACCCTTGCAGCAGCCTCAGACTTCTCGGGTACTGGCCA [5993]

Capybara TGCCTGCCTCTATGTGCAGCCCATCCCTGCAGCAGCCACAGGGGTCCCGGGTGCTCGCCA [5935]

Rabbit CTCCTGCCTCAGTGGGCAGCCCACCCTTGCAGCAGCCGCAGGGCTCCCGGGTGCTGGCCA [5703]

Round\_Eared\_Bat CCCCTGCTTCAGCTTGCAACCCGTCCCTGCAGCAGGCACAGGGCTCCCAGGTGCTGGCCA [5895]

Flying\_Fox CCCCTGCCTCAGCCTGCAGCCCACCCCGTCAGCAGCCACAGGGCTCCCGGGTCCTGGCCA [5843]

Aardvark CCTCTGCCTCAGCTTGCAACCCACCCCTACAACAGCCACAGGGCTCTCGGGTGCTGGCTA [5994]

Elephant\_Shrew CTCCTGCCTTGGCTTGCAGCCCCTCCCTGCAGCCGCCCCAGGGCTCTCGTGTCCTGGCTA [5717]

Hyrax CCCCTGCCTCGGCTTGTGGCCCACACCTTCAGCAGCCACAGGGCTCTCAGGTGCTGGCCA [5753]

Dugong CCCCTGCCACGGCTTGCAACCCACCTCTGCAGCAGCCACAGGGCTCTCAGGTGCTGGCCA [5801]

Elephant CCCCTGCTTTGGCTTGCAGCCCACCACTGCAGCAGCCAAAGGGCTCTCGGGTGCTGGCCA [5837]

Pig CTCCTGCCTCGGCTTGCAGTCCACCCCTGCAGCAGCCACAGGGTTCCCGGGTGCTGGCAA [5989]

Cow CTCCTGCCTCAGCTTGCAGCCCGCCCCTGCAGCAGCCACAGGGTTCCCGGGTGCTGGCAA [6038]

Hippo CTCCCGCCTCAGCGTGCAGCCCATCTCTGCAGCAGCCGCAGGCTTCCCGGGTGCTGGCGA [5841]

Whale CTCCCGCCTCAGCTTGCAGCCCCCCCCTGCAGCAACCCCAGGGCTCCCGGCTGCTGGCGA [5857]

Horse CTCCTGCCTCAGCTTGCAGCCCACCCCTGCAGCAGCCACAGGGCTCCCGGGTGCTGGCGA [6029]

Rhino CTCCTGCCTCAGCTTGCAAGCCACCCCTGCAGCAGCCACAGGGCTCCCGGGTGCTGGCGA [6014]

Cat CTCCTGCCTCCGCCTGTAGCCCACCCCTGCAGCAGCCGCAGGGGTCCCGGGTGCTGGCAA [5909]

Dog CTCCCGCGTCAGCGTGCAGCCCACCCCTGCCCCAGCCACAGGGTTCCCGGGTGCTGGCAA [5995]

Human CTCCGGCCTCAGCTTGCAGCCCCCCGCTGCAGCAGCCACAGGGCTCCCGGGTGCTGGCCA [6028]

Galago CTCCTGCCTCAGTCTGCAGCCCACCCCTGCAGCAGCCACAGGGCTCCCGGGTGCTGGCCA [5974]

Flying\_Lemur CTTCTGCCTCAATTTGCAGCCCACCCCTGCAGCAGCCGCAGGGCTCCCGGGTGCTGGCCA [5963]

Tree\_Shrew CTCCTGCCTCGGTTTGCAGCCCACCCCTGCAGCAACCACAAGGCTCCCGTGTGCTGGCCA [5890]

Madagascar\_Hedgehog CCCCTGCCTCC?CCGGCAGCCCCCAGCTGCAGCAGCCCCAGGGCACTCGGGTACTGGTTA [4735]

Golden\_Mole CCCCTGCCTCTGCTGGCAGCCCACCCCTGCAGCAGCCACAGGGTTCTCGGGTGCTGGCTA [4746]

[ 6310 6320 6330 6340 6350 6360]

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Opossum CACTCAGGGGCCAGGTACTATTGGCCCGAGGA------CCTGCCTCTCTGGGGCTACAGC [6017]

Kangaroo CACTCCGGGGCCAGGTGCTCTTGGCCCGACAA------CCTGCCTCCTTGGGGCTGCAGC [6040]

Hedgehog CCCTTCGAGGCCAAGTGCTCCTGAGTAGGGGTGTGGGCACAGCA------AGTGGGCAGT [5738]

Mole CCCTCCGTGGCCAGGTGCTCCTCGGCAGGGCTGCTGGCGCTGCA------AGTGGCCAGT [6003]

Sloth CCCTCCGCGGCCAGGTGCTCCTGGGCAGGGGTGCAGCA------------GGCGGGCAGT [5860]

Pangolin CACTGCGTGGCCAAGTGCTTCTGGGCAGGGGCGTGGGCGCTGCTGTGGGTAGTGGGCAGT [5874]

Rat CACTTCGTGGCCAGGTGCTTCTGGGCAAGAATGTGGGAGTTGCC------AGTGGGCAGT [6047]

Capybara CCCTGCGTGGTCAGGTGCTGCTGGGCAGGGGCGTGGGTGCTGTG------GATGGGCAGT [5989]

Rabbit CCCTCCGTGGCCAGGTGCTCGTGGGCCGGGGCGTGGGTGCCATG------AGCGGGCAGT [5757]

Round\_Eared\_Bat CCTTGCGTGGCCAGGTGCTCCTGAGCAGGGGCATGGGTGCTGCG------GGTGGGCAGT [5949]

Flying\_Fox CCCTGCGTGGCCAGGTGCTCCTGGGTAAGGGCCTGGGCACTGCA------AGTGGGCAGT [5897]

Aardvark CCTTACGCGGCCAGGTGCTCTTGGGCAGGGGTTTGGG?GCTGCA------GGTGGGCAGT [6048]

Elephant\_Shrew CCTTACGTGGCCAGGTGCTCTTAGGCAGGGGTGTGGGCACTGCT------CGTGGGCAGT [5771]

Hyrax CTCTACGTGGCCAGGTGCTTCTGGGCAGGGGTGTGGGTGCTGCA------GGTGGGCAGT [5807]

Dugong CCCTACGTGGCCAGGTGTTCCTGGGCAGGGGTGTGGGTGCTGCA------GGTGGGCAGT [5855]

Elephant CCTTGCGTGGCCAGGTGCTCCTGGGCAGGGGTGTGGGTACTGCA------GGTGGGCAAT [5891]

Pig CCCTACGGGGCCAGGTGCTCCTGGGCAGGGGCATGGGCACTTCG------AGTGGGCAGT [6043]

Cow CCCTGCGTGGCCAGGTGCTCCTGGGCAGGGGCACAGGCACTGCA------GGGGCGCAGT [6092]

Hippo CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGCGAGGGCACTGCG------GCGGGGCAGT [5895]

Whale CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGCAAGGGCACTGCG------GGGGGGCAGT [5911]

Horse CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGTGTGGCCACTGCA------GGTGCGCAGT [6083]

Rhino CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGTGTGGGCACTGCA------GGTGGGCAGT [6068]

Cat CACTACGTGGCCAGGTGCTCCTGGGCAGGGGCGTGGGCACCTCG------AGCGGGCAGT [5963]

Dog CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGTGTGGGCACCGCG------AGCGGGCAGT [6049]

Human CCCTACGTGGCCAGGTGCTCCTGGGCAGGGGCGTGGGTGCTATA------GGTGGGCAGT [6082]

Galago CCCTACGCGGCCAGGTGCTCCTGAGCAGGGGTAGGGGTGCTGTG------GGTGGGCAGT [6028]

Flying\_Lemur CCCTACGTGGCCACGTGCTCCTGGGCAGGGGTGTGGGTGCTGTG------GGCGGGCAGT [6017]

Tree\_Shrew CCCTCCGTGGCCAGGTGCTTTTGGGCAGGGGCGTGGGTGCTGCG------AGTGGGCAGT [5944]

Madagascar\_Hedgehog CCTTACGTGGCCAGGTGGTCCTGAGCAGGGGTCT?GGTGCTGCA------AGCGGCCAAT [4789]

Golden\_Mole CCTTACGTGGCCAGGTGCTCCTGGGCAGGGGTGTGGGTGCTGCA------GGAGGGCAGT [4800]

[ 6370 6380 6390 6400 6410 6420]

[ . . . . . .]

Opossum CATGGAGGCGTAGGACCCAGATGAACCGAGAAAAACGCTTCACCTTCGTGCTGGCCGTGG [6077]

Kangaroo CATGGAGGCGTAGGACCCAGATGAACCGAGAAAAGCGCTTCACCTTCGTGTTGGCCGTAG [6100]

Hedgehog GGTGGCGTCGGCGGGCACAGCTGACCCGGGAGAAGCGGTTCACCTTTGTGCTGGCTGTGG [5798]

Mole GGTGGCGTCGGCGGACACAGCTATCCCGCGAGAAGCGGTTTACCTTCGTGCTGGCCGTAG [6063]

Sloth GGTGGCGTCGGCGGGCGCAGTGCACGCGGGAGAAGCGCTTCACCTTCGTGCTGGCCGTGG [5920]

Pangolin GGTGGCGTCGGCGGGCGCAGCTGACCAGGGAGAAGCGGTTCACCTTTGTGCTGGCTGTGG [5934]

Rat GGTGGCGCAGACGGACACAGCTGAGCCGGGAGAAGAGGTTCACCTTTGTGCTGGCCGTGG [6107]

Capybara GGTGGCGTCGGCGGACCCAGATGACCCGGGAGAAGCGGTTCACCTTCGTGCTGGCTGTGG [6049]

Rabbit GGTGGCGTCGCCGGGCGCAGCTGAGCCGGGAGAAGCGTTTCACCTTCGTGCTGGCCGTGG [5817]

Round\_Eared\_Bat GGTGGCGTCGGCGGGCTCAGCTGACCCGGGAGAAGAGGTTCACCTTTGTGCTGGCCGTGG [6009]

Flying\_Fox GGTGGCGTCGGCGGGCTCAGCTGACCCGGGAGAAGCGGTTTACCTTTGTGTTGGCAGTGG [5957]

Aardvark GGTGGCGTCGGCGGGCACAGCTGACACGGGAGAAGCGGTTCACCTTTGTGCTGGCTGTGG [6108]

Elephant\_Shrew GGTGGCGCCGGCGGGCACAGCTGACGCGGGAGAAACGGTTCACCTTCGTCCTGGCTGTGG [5831]

Hyrax GGTGGCGTCGGCGGGCGCAGCTGACACGGGAGAAGCGATTCACCTTTGTGCTGACTGTGG [5867]

Dugong GGTGGCGTCGGTGGGCACAGCTGACACGGGAGAAGCGGTTCACCTTCGTGCTGGCTGTGG [5915]

Elephant GGTGGCGTCGGCGGGCACAGCTGACGCGGGAGAAGCGGTTTACCTTCGTGCTGGCCGTGG [5951]

Pig GGTGGCGTCGGCGGGCGCAGCTGACCCGGGAGAAGCGGTTCACGTTCGTGCTGGCTGTGG [6103]

Cow GGTGGCGGCGGCGGACGCAGCTGAGCCGAGAGAAGAGGTTCACCTTCGTGCTGGCTGTGG [6152]

Hippo GGTGGCGGCGTCGGACACAGCTGACCCGGGAGAAGCGGTTCACGTTTGTGCTGGCCGTGG [5955]

Whale GGTGGCGGCGGCGGACGCAGCTGACCCGGGAGAAGCGGTTCACGTTCGTGCTGGCCGTGG [5971]

Horse GGTGGCGGCGGCGGGCACAGCTGACTCGGGAGAAGCGGTTCACCTTCGTGCTGGCCGTGG [6143]

Rhino GGTGGCGTCGGCGGGCACAGCTGACTCGAGAGAAGCGGTTCACCTTTGTGCTGGCTGTGG [6128]

Cat GGTGGCGGCGGCGGGCGCAGCTGACTCGGGAGAAGCGGTTCACCTTCGTGCTGGCCGTGG [6023]

Dog GGTGGCGGCGGCGGGCGCAGCTGACTCGGGAGAAGCGGTTCACCTTTGTGCTGGCCGTGG [6109]

Human GGTGGCGTCGAAGGGCGCACGTGACCCGGGAGAAGCGCTTCACCTTCGTGCTGGCTGTGG [6142]

Galago GGTGGCGTCGACGGGCACAGCTGAGCCGGGAGAAACGATTCACCTTTGTGCTGGCCGTGG [6088]

Flying\_Lemur GGTGGCGTCGGCGGGCGCAGCTGAGTCGGGAGAAGCGGTTCACCTTCGTGCTGGCCGTGG [6077]

Tree\_Shrew GGTGGCGCCGCCGGGCGCAGCTGACCCGGGAGAAGCGCTTCACCTTCGTGCTGGCTGTGG [6004]

Madagascar\_Hedgehog GGTGGCGTCGCAGGACCCAGTTGACCCGGGAGAAGCGGTTCACCTTTGTGCTGGC?GTGG [4849]

Golden\_Mole GGTGGCGCCGGAGGACACAGCTGACCCGGGAGAAGCGGTTCACTTTCGTGCTGGCTGTGG [4860]

[ 6430 6440 6450 6460 6470 6480]

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Opossum TGATCGGGGTCTTTGTCCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTAGGAGCCA [6137]

Kangaroo TGATCGGAGTCTTTGTCCTCTGCTGGTTCCCTTTCTTCTTCAGCTATAGCTTAGGAGCCA [6160]

Hedgehog TTATTGGTGTCTTTGTGCTCTGCTGGTTCCCTTTCTTCTTCAGTTACAGCCTGGGTGCCA [5858]

Mole TCATTGGTGTCTTTGTGCTCTGCTGGTTCCCTTTCTTCTTCAGCTACAGCCTGGGTGCCA [6123]

Sloth TGATCGGGGTCTTCGTCCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGCGCCA [5980]

Pangolin TGATTGGTGTCTTCGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGTGCCA [5994]

Rat TCATTGGAGTTTTCGTGGTCTGCTGGTTTCCTTTCTTCTTCAGCTACAGCCTGGGGGCCA [6167]

Capybara TCATTGGTGTCTTTGTGCTGTGCTGGTTCCCCTTCTTCTTCACCTACAGCCTGGGTGCCA [6109]

Rabbit TCATCGGCGTCTTTGTGCTCTGCTGGTTCCCCTTTTTCTTCAGCTACAGCCTGAGTGCCA [5877]

Round\_Eared\_Bat TCATCGGCGTCTTCGTGCTCTGCTGGTTCCCTTTCTTCTTCAGCTACAGCCTGGGTGCCA [6069]

Flying\_Fox TCATTGGTGTCTTTGTGCTCTGCTGGTTCCCTTTCTTCTTCAGCTACAGCCTTGGTGCCA [6017]

Aardvark TCATTGGTGTCTTCGTGCTCTGCTGGTTCCCCTTCTTCTTTAGCTACAGCCTGGGTGCCA [6168]

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Hyrax TCATTGGTGTCTTCGTGCTCTGCTGGTTTCCTTTCTTCTTCAGCTATAGCCTGGGTGCCA [5927]

Dugong TCATTGGCGTCTTCGTGCTCTGCTGGTTCCCTTTCTTCTTCAGCTACAGCCTGGGTGCCA [5975]

Elephant TCATTGGCGTCTTTGTGCTCTGCTGGTTCCCGTTCTTCTTCAGCTACAGTCTGGGTGCCA [6011]

Pig TCATTGGCGTGTTTGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTATAGCCTGGGTGCCA [6163]

Cow TCATCGGTGTCTTCGTGCTCTGCTGGTTCCCTTTCTTCTTCAGCTACAGCCTGGGTGCCA [6212]

Hippo TCATCGGCGTCTTCGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGTGCCA [6015]

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Dog TCATTGGCGTTTTTGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGAGCCA [6169]

Human TCATTGGCGTTTTTGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGCGCCA [6202]

Galago TCATCGGTGTCTTTGTACTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGCGCCA [6148]

Flying\_Lemur TCATCGGCGCCTTTGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGCGCCA [6137]

Tree\_Shrew TCATCGGTGTCTTTGTGCTCTGCTGGTTCCCCTTCTTCTTCAGCTACAGCCTGGGCGCCA [6064]

Madagascar\_Hedgehog TCATTGGCGTCTT?GTCCTCTGCTGGTTCCCCTTCTTCTT?AGCTACAGCCTGGGTGCCA [4909]

Golden\_Mole TCATTGGTGTCTTTGTGCTCTGCTGGTTCCCCTTTTTCTTTAGCTACAGCCTGGGGGCCA [4920]

[ 6490 6500 6510 ]

[ . . . ]

Opossum TCTGCCCCCAGCACTGTAAAGTCCCTCATGGCCTTTTT [6175]

Kangaroo TCTGCCCTCAGCATTGCAAGGTCCCTCATGGCCTTTTC [6198]

Hedgehog TCTGCCCACAGCACTGCAAAGTGCCCCATGGCTTATTC [5896]

Mole TCTGCCCACAGCAATGCAAGGTGCCCCATGACCTCTTC [6161]

Sloth TCTGCCCCCAGCGCTGCAAGGTGCCCCATGGCCTCTTC [6018]

Pangolin TCTGCCCACAGCACTGCAAGGTGCCCCACGGTCTCTTC [6032]

Rat TCTGCCCACAGCACTGCAAGGTACCGCATGGCCTCTTC [6205]

Capybara TCTGTCCCCAGCACTGCAAGGTGCCCCATGGCCTCTTC [6147]

Rabbit TCTGCCCGCAGCAGTGCCGGGTGCCCCACGGCCTCTTC [5915]

Round\_Eared\_Bat TCTGCCCTCAGCACTGCAAGGTGCCCCATGGCCTCTTC [6107]

Flying\_Fox TCTGCCCACAACACTGCAAGGTGCCCCATGGCCTTTTC [6055]

Aardvark TCTGCCCCCAGCGCTGCAAGGTGCCCCATGGCCTCTTC [6206]

Elephant\_Shrew TCTGCCCTCAGCACTGCAAGGTGCCCCATGGCCTCTTT [5929]

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Horse TCTGCCCCCAGCACTGCAAGGTGCCCCACGGCCTCTTC [6241]

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Cat TCTGCCCACAGCACTGCAAGGTGCCCCATGGCCTCTTC [6121]

Dog TCTGCCCACAGCACTGCAAGGTGCCCCACGGCCTCTTC [6207]

Human TCTGCCCGAAGCACTGCAAGGTGCCCCATGGCCTCTTC [6240]

Galago TCTGCCCCAAGCACTGCAAGGTGCCCCATGGCCTCTTC [6186]

Flying\_Lemur TCTGCCCTCAGCGCTGCAAGGTACCCCATGGCCTCTTC [6175]

Tree\_Shrew TCTGCCCGCAGCACTGCAAGGTGCCCCACGGCCTCTTC [6102]

Madagascar\_Hedgehog TCTGCCCCCAACACTGCACGGTG?CCCACGGCCTCTTC [4947]

Golden\_Mole TCTGCCCACAGCACTGCAAGGTGCCCCATGGCCTCTTC [4958]

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END;

BEGIN ASSUMPTIONS;

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CHARSET mt = 1-2811;

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CHARSET A2AB = 5355-6518;

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