

Supplementary File 1: Full sequence alignments for EVADR locus.

CLUSTAL alignment for MER48 LTR at EVADR locus

Human MER48 LTR:

Position: chr6:71104329-71104716

Band: 6q13

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Human          CTTACTGAAAGATTCTCCCC-GGGGCCTGAAAGTTTAAAGGGAATGAATAACTCCGCCCTC
Chimpanzee     CTTACTGAAAGATTCTC-CC-GGAGCCTGAAAGCTTAAGGGAATGAATAACTCCGCCCTC
Gorilla        CTTACTGAAAGATACTCCCC-GGGGCCTGAAAGCTTAAGGGAATGAATAACTCCGCCCTC
Orangutan      CCTGCTGAAAGATTCTCACC-GGGGCCTGAAAGCTTAAGAGAATGAATAACTCCGCCCTC
Gibbon         CCTACTGAAAGATTCTCCCT-GGGGCCTGAAAGCTTAAGGGAATGAATAACTCCGCCCTC
Baboon         CCTACGAAAGATTCTCCCCAGGGCCTGAAAGCTTAAGGGAATGAGTAACCTCCTCCCTC
Macaque        CCTACGAAAGATTCTCCCCAGGG-CCTGAAAGCTTAAGGGAATGAATAACTCCTCCCTC
Rhesus         CCTACGAAAGATTCTCCCCAGGG-CCTGAAAGCTTAAGGGAATGAATAACTCCTCCCTC
Marmoset       CTG-----
Squirrel_monkey CTCA-----
Tarsier        CCCA-----
Bushbaby       CCCA-----
Mouse_lemur    CCCA-----
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Human          CTCAGGCCAGTCCCAAGGTGCAAGGCCACTTGTGCTAGCAGCATGCGTCAGCAAGATAG
Chimpanzee     CTCAGGCCAGTCCCAAGGTGCAAGGCCACTTGTGCTAGCAGCATGCGTCAGCAAGATAG
Gorilla        CTCAGGCCAGTCCCAAGGTGCAAGGCCACTTGTGCTAGCAGCATGCGTCAGCAAGATAG
Orangutan      CTCAGGCCAGTCCCAAGGTGCAAGGCCACTTGTGCTAGCAGCATGCGTCAGCAAGATAG
Gibbon         CTCAGGCCAGTCCCAAGGTGCAAGGCCACTTGTGCTAGCAGCATGCGTCAGCAAGATAG
Baboon         CTCAGGCCAGTCCCTCAGGCACAAAGCCACATGCGCTAGCAGTGTGCATCAGCAAGATAG
Macaque        CTCAGGCCAGTCCCTCAGGCACAAAGCCACATGCGCTAGCAGTGTGCATCAGCAAGATAG
Rhesus         CTCAGGCCAGTCCCTCAGGCACAAAGCCACATGCGCTAGCAGTGTGCATTAGCAAGATAG
Marmoset       -----
Squirrel_monkey -----
Tarsier        -----
Bushbaby       -----
Mouse_lemur    -----
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Human          CAGAAGCAGGAAGAGAGCTGGCCGGAAGATATGTACCCTGTGAAGACCCAGAGAGAGGCC
Chimpanzee     CAGAAGCAGGAAGAGAGCTGGCCGGAACATATGTACCCTGTGAAGACCCAGAGAGAGGCC
Gorilla        CAGAAGCAGGAAGAGAGCTGGCCGGAAGATATGTACCCTGTGAAGACCCAGAGAGAGGCC
Orangutan      CAGAAGCAGGAAGAGAGCTGGCCGGAACATATATACCCTGTGAAGAC--AGAGAGAGGCC
Gibbon         CAGAAGCAGGAAGAGAGCTGGCCGGAAGATATGTACCCTGTGAAGACCCAGAGAGAGGCC
Baboon         CAGAAGCAGGAAGAGAGTTAGCCCAAAGACATGTACCCTGTGAAGACCCAGAGAGAGGCC
Macaque        CAGAAGCAGGAAGAGAGTTAGCCCAAAGACATGTACCCTGTGAAGACCCAGAGAGAGGCC
Rhesus         CAGAAGCAGGAAGAGAGTTAGCCCAAAGACATGTACCCTGTGAAGACCCAGAGAGAGGCC
Marmoset       -----
Squirrel_monkey -----
Tarsier        -----
Bushbaby       -----
Mouse_lemur    -----
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Human          GTCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Chimpanzee     GTCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Gorilla        GTCCAGGTACCACGTAGCAGTTATATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Orangutan      ATCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Gibbon         ATCCAGGTACCACGTAGCAGTTACATCAGACTGAGGCACTTCTGTTTACAGGAGACTAT
Baboon         GTCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Macaque        GTCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Rhesus         GTCCAGGTACCACGTAGCAGTTACATCAGACTGAGACACTTCTGTTTACAGGAGACTAT
Marmoset       -----
Squirrel_monkey -----
Tarsier        -----
Bushbaby       -----
Mouse_lemur    -----
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Human          AAAACCCCTGCCCATCTCATTGGTGCTGATGCCATTTTACGCCCTCAGCACACCTGCA
Chimpanzee     AAAACCCCTGCCCATCTCATTGGTGCTGATGCCATTTTAAAGCCCTCAGCACACCTGCA
Gorilla        AAAACCCCTGCCCATCTCATTGGTGCTGATGCCATTTTAAAGCCCTCAGCACACCTGCA
Orangutan      AAAACCTCTGCCCATCTCATTGGTGCTGATGCCATTTTAGGCCCTCAGCACACCTGCA
Gibbon         AAAACCCCTGCCCATCTCATTGGTGCTGATGCCATTTTAAAGCCCTCAGCATGCCCTGCA
Baboon         AAAACCTCTGCCCATCTCATTGGTGCTGATGCCATTTTAGGCCCTCAGTCCGCCTGCA
Macaque        AAAACCTCTGCCCATCTCATTGGTGCTGATGCCATTTTAGGCCCTCAGCCTGCCTGCA
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Rhesus AAAACCTCTGCCCGTCTCATTTGGTGCTGATGCCATTTTAGGTCTCAGCCCGCCTGCA
Marmoset -----
Squirrel_monkey -----
Tarsier -----
Bushbaby -----
Mouse_lemur -----

Human CCCAGGCGCTCATTA AAAACAGCATGTTGCTCCCCACTGCCTCGTGTGTCTGTTGGCGCG
Chimpanzee CCCAGGCGCTCATTA AAAACAGCATGCTGCTCCCCACTGCCTCGTGTGTCTGTTGGCGCG
Gorilla CCCAGGCGCTCATTA AAAACAGCATGCTGCTCCCCACTGCCTCGTGTGTCTGTTGGTGCG
Orangutan CCCAGGCGCTCATTA AAAACAGCATGTTGCTCCACACTGCCTCGTGTGTCTGTTGGCAGC
Gibbon CCCAGGTGCTCATTA AAAACAGCATGTTGCTCCACACTGCCTCGTATTGTCTGTTGGCAGC
Baboon CCCAGGCGCTCATTA AAAACAGCATGTTGCTCCACACTGCCTCGTGTGTCTGTTGGCGCG
Macaque CCCAGGAGCTCATTA AAAACAGCATGTTGCTCCACACTGCCTCGTGTGTCTGTTGGAGCG
Rhesus CCCAGGCGCTCATTA AAAACAGC-----CCACACTGCCTCGTGTGTCTGTTGGAGGG
Marmoset -----
Squirrel_monkey -----
Tarsier -----
Bushbaby -----
Mouse_lemur -----

Human CTGTCGGGGTTCGAACCGATAACAAGAACCTTCCACCTACCTGGTGCCTTGGCCTCATCTA
Chimpanzee CTGTCGGGGTTCGAACCGGTACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTG
Gorilla CTGTCGGGGTTCGAACCGATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Orangutan CTGTCAGGGTTCGAACCCATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Gibbon CTGTCAGGGTTCGAACCTGATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Baboon CTCTCGGGATTCCAACCGATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Macaque CTCTCGGGATTCCAACCGATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Rhesus CTTTCGGGATTCCAACCGATAACAAGAACCTTTCACCTACCTGGTGCCTTGGCCTCATCTA
Marmoset -----CCTAGTGCCTCAGTCTCATCTA
Squirrel_monkey -----CCTGGTGCCTCAGTCTCATCTA
Tarsier -----CTAGGCATTTGGTTTCGTCTA
Bushbaby -----AATGGTGCCTGATTTCTTCTG
Mouse_lemur -----CTTGGTGCCTCAGTTCCTTCTA

Human TAAGGTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAACTCTGTGTAGCAGTGAAGAT
Chimpanzee TAAGGTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAACTCTGTGTAGCAGTGAAGAT
Gorilla TAAGGTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAACTCTGTGTAGCAGTGAAGAT
Orangutan TAAGGTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAACTCTGTGTAGCAGTGAAGAT
Gibbon TAAGGTAAAAGCAAAGCCATCTGTTGCTAAATAT-GGAACTCTGTGTGGCAGTGAAGAT
Baboon TAAAGTAAAAGCAAAGCCATCTGTTGTTAAATAT-GGAACTCTGTGTAGCAGTGAAGAT
Macaque TAAAGTAAAAGCAAAGCCATCTGTTGTTAAATAT-GGAACTCTGTGTAGCAGTGAAGAT
Rhesus TAAAGTAAAAGCAAAGCCATCTGTTGTTAAATAT-GGAACTCTGTGTAGCAGTGAAGAT
Marmoset TAACGTAAAAGCAAAGCCATCTGTGGCTACATAT-GGAACTCTGTGTACCAGTGAAGAT
Squirrel_monkey TAAGGTAAAAGCAAAGCCATCTGTGGCTACCTAT-GGAACTCTGTGTACAAGTGAAGAT
Tarsier TATGGTAAAAGCAACCCATCTGCAGCTAAGTACGGGAAG-TCAGTGTGGCAGTGAAGAT
Bushbaby TAACCTAAGAGCAAAGCCAACCTGGGGCTAAATACAAGAAG-TCAGCATGGCAATGAGGAT
Mouse_lemur TAAGGTACAAGAAAAGCCATCTGCAGCTAAGTAGGAGAAG-TCATCCTGGCAGGAGGAT

Human TAGAAGTAG----TTAATGATTGGAGGATGAC
Chimpanzee TAGAAGTAG----TTAATGATAGAAGGATGAC
Gorilla TAGAAGTAG----TTAATGATAGAAGGATGAC
Orangutan TAGGAGTAG----TTAATGATAGAAGGATGAC
Gibbon TAGGAGTAG----TTAATGATAGAAGGATGAC
Baboon -AGGAGTAG----TTAATGATAGAAGGATGAC
Macaque TAGGAGTAG----TTAATGATAGAAGGATGAC
Rhesus TAGGAGTAG----TTAATGATAGAAGGATGAC
Marmoset TAGGTA-----TAATGATAGAAGGATGAC
Squirrel_monkey TAGGAA-----TAATGATAGAAGGATGAC
Tarsier CAGAAGTAG----TTAATAATAGGAGGATGGC
Bushbaby CAGAAGTAGATAGTTAATGATAGGAAG
Mouse_lemur CAGGAGTAG----CTAATGACAGGAGCTGGC

CLUSTAL alignment for 394-nt EVADR cDNA

Human EVADR exon coords (chr6):

exon 1: 71,104,593-71,104,746

exon 2: 71,104,933-71,104,969

exon 3: 71,108,918-71,109,120

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Human          GATGCCATTTTCAGCCTCAGCACGCTGCACCCAGGCGCTCATTA AACAGCATGTT
Chimpanzee     GATGCCATTTTAAGCCTCAGCACACCTGCACCCAGGCGCTCATTA AACAGCATGCT
Gorilla        GATGCCATTTTAAGCCTCAGCACACCTGCACCCAGGCGCTCATTA AACAGCATGCT
Orangutan      GATGCCATTTTAGGCCTCAGCACGCTGCACCCAGGCGCTCATTA AACAGCATGTT
Gibbon         GATGCCATTTTATGCCTCAGCATGCCTGCACCCAGGCGCTCATTA AACAGCATGTT
Baboon         GATGCCATTTTAGGCCTCAGTCCGCTGCACCCAGGCGCTCATTA AACAGCATGTT
Macaque        GATGCCATTTTAGGCCTCAGCCTGCCTGCACCCAGGAGCTCATTA AACAGCATGTT
Rhesus         GATGCCATTTTAGGTCTCAGCCCCTGCACCCAGGCGCTCATTA AACAGCC----
Marmoset       -----
Squirrel_monkey -----
Tarsier        -----
Bushbaby       -----
Lemur          -----
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Human          GCTCCCCTACTGCCTCGTGTGCTGTGGCGCGCTGTCGGGGTTCGA ACCGATACAAGAA
Chimpanzee     GCTCCCCTACTGCCTCGTGTGCTGTGGCGCGCTGTCGGGGTTCGA ACCGATACAAGAA
Gorilla        GCTCCCCTACTGCCTCGTGTGCTGTGGCGCGCTGTCGGGGTTCGA ACCGATACAAGAA
Orangutan      GCTCCACACTGCCTCGTGTGCTGTGGCACGCTGTCAGGGTTCGA ACCCATAACAAGAA
Gibbon         GCTCCACATCGCCTCGTATTGCTGTGGCACGCTGTCAGGGTTCGA ACTGATACAAGAA
Baboon         GCTCCACACCGCCTCTTGTGCTGTGGCGCGCTCCTCGGGATTCCA ACCGATACAAGAA
Macaque        GCTCCACACCGCCTCTTGTGCTGTGGAGCGCTCCTCGGGATTCCA ACCGATACAAGAA
Rhesus         ----CACACCGCCTCTTGTGCTGTGGAGGGCTTTCGGGATTCCA ACCGATACAAGAA
Marmoset       -----
Squirrel_monkey -----
Tarsier        -----
Bushbaby       -----
Lemur          -----
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Human          CCTTCCACTACCTGGTGCTTTGGCCCTCATCTATAAGC-TTTTCCA CTGTCCTGAA----
Chimpanzee     CCTTTCACCTACCTGGTGCTTTGGCCCTCATCTGTAAGC-TTTTCCA CTGTCCTGAA----
Gorilla        CCTTTCACCTACCTGGTGCTTTGGCCCTCATCTATAAGC-TTTTCCA CTGTCCTGAA----
Orangutan      CCTTTCACCTACCTGGTGCTTTGGCCCTCATCTATAAGC-TTTTCCA CTGTCCTGAA----
Gibbon         CATTTACCTACCTGGTGCTTTGGCCCTCATCTATAAGC-TTTTCCA CTGTCCTGAA----
Baboon         ACTTTACCTACCTGGTGCTTTGGCCCTCATCTATAAAC-TTTTCTA CTGTCCTGAA----
Macaque        CATTTACCTACCTGGTGCTTTGGCCCTCATCTATAAAC-TTTTCTA CTGTCCTGAA----
Rhesus         CATTTACCTACCTGGTGCTTTGGCCCTCATCTATAAAC-TTTTCTA CTGTCCTGAA----
Marmoset       -----GCCTAGTGCTTTCAGTCTCATCTATAACC-TTTTCCA CTGTCCTGAA----
Squirrel_monkey -----ACTGGTGCTTTCAGTCTCATCTATAAGC-TTTTCCA CTGTCCTGAA----
Tarsier        -----ACTAGGCACCTTTGGTTTCGCTATATGCATTTTCCCCTG TCCTGAATGTA
Bushbaby       -----AAATGGTGCTCTGATTCTTCTGTAACC-TTTTCCAATGTCTG AATGTA
Lemur          -----ACTTGGTGCTTTCAGTTTCTTCTATAAG--TTTACCA ATGTCTGAATGTA
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Human          ---ACAAGATAG-----AGAAATCTGAGCGGCCAGTCA TCTGCCCTAA
Chimpanzee     ---ACAAGATAG-----AGAAATCTGAGCGGCCAGTCA TCTGCCCTAA
Gorilla        ---GCAAGATAG-----AGAAATCTGAGCGGCCAGTCA TCTGCCCTAA
Orangutan      ---ACAAGGTAG-----AGAAATCTGAGCAGCCAGTCA TCTGCCCTAA
Gibbon         ---ACAAGGTAG-----AGAAATCTGAGCAGCCAGTCA TCTGCCCTAA
Baboon         ---ACAAGGTAG-----AGAAATCTGAGCAGCCAGTCA TCTGCCCTAA
Macaque        ---ACAAGGTAG-----AGAAATCTGAGCAGCCAGTCA TCTGCCCTAA
Rhesus         ---ACAAGGTAG-----AGAAATCTGAGCAGCCAGTCA TCTGCCCTAA
Marmoset       ---ACAAGATAG-----AGAAATCTAAGCACCAGTCA TCTGCCCTAA
Squirrel_monkey -----ACAAGATAG-----AGAAATCTAAGCAGCCAGTCA TCTGCCCTAA
Tarsier        GAAACAAGATGGTATATTTGGCCCTAGGATGGATAAATGAGCA ACCAGCAATCTTCCCTGA
Bushbaby       GAAACGAGATGGCAGATTGGCCCAAGGATAAGGAATTTGAGCAG CCAGAGATCTGCCCTGA
Lemur          GAAACGAGATAGCAGATTGGCCCAAGGATAGAGAATTTGAGCA ACCAATAATCTGCCCTAA
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Human          GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Chimpanzee     GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Gorilla        GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Orangutan      GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Gibbon         GTGCTGTGTGCTGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Baboon         GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Macaque        GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Rhesus         GTGCTGCCGCCGAAGACTGAAATGTCCCTGGAAAGTTTGTGTGC ACATCTCCATTATGACAA
Marmoset       GTGCTGCCTCTGAAGACTGAAATATCCTGGAAATGTTTGTGTGC ACATCTCCATTATGACAA
Squirrel_monkey GTGCTGCCGCTGAAGACTGAAATGTCCCTGGAAATGTTTGTGTGC ACATCTCCATTATGACAA
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Tarsier GTGTG-----TGAAGGCTGAATGCCCTAGAAAGTTTGCCTTCATATGTCC-----ACAA
 Bushbaby GTGCCACGGCTGAAGGCTGAACGCCCTGGAGAGTTTGCCTCAGCTTCCCA-TACTACAG
 Lemur GTGCTACGGCTGAAGGCTGAATGCCCGGAGAGTTTGCCTTCATATGTCC-----ACAA

Human AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAACGG
 Chimpanzee AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAACGG
 Gorilla AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAATGG
 Orangutan AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAATGG
 Gibbon AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAACGG
 Baboon AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAATGG
 Macaque AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAATGG
 Rhesus AAGCATTGTGC---CGAACAG-----ATGAAAAATGCATTGTCAATGG
 Marmoset AAGCATTGTGC---AGAACAG-----ATGAAAAATGCATTGTCAATGG
 Squirrel_monkey AAACATTGTGC---AGTACAG-----ATGAAAAATGCATTGTCAATAG
 Tarsier AAGCATTGTGC---TTAAAG-----ATGAAACAA-ACATTGTCAATAA
 Bushbaby AAGCATTGTGC---CAAACAG-----CAACAG
 Lemur AAGCCCTTCTCTTTTAAACAGCATCGCTTGTATTATATAAAAGA-----TCAACAA

Human AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTACTTGTATAAAAAGATA
 Chimpanzee AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTACTTGTATAAAAAGATA
 Gorilla AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCT----TGTATAAAAAGATA
 Orangutan AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTACTTGTATAAAAAGATA
 Gibbon AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTACTTGTATAAAAAGATA
 Baboon AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCT----TGTATAAAAAGATC
 Macaque AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCT----TGTATAAAAAGATC
 Rhesus AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCT----TGTATAAAAAGATC
 Marmoset AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCT----TGTATAAAAAGATC
 Squirrel_monkey AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTGTATAAAAAGATC
 Tarsier AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTGTATAAAAAGATC
 Bushbaby AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTGTATAAAAAGATC
 Lemur AATCTTTTATGTTTGTCTTCCCTTAAGCAACATTGCCTTGTATAAAAAGATC

Human AATAAATATTTGTTTCATTTCAA
 Chimpanzee AATAAATATTTGTTTCATTTCAA
 Gorilla AATAAATATTTGTTTCATTTCAA
 Orangutan AATAAATATTTGTTTCATTTCAA
 Gibbon AATAAATATTTGTTTCATTTCAA
 Baboon AATAAATATTTGTTTCATTTCAA
 Macaque AATAAATATTTGTTTCATTTCAA
 Rhesus AATAAATATTTGTTTCATTTCAA
 Marmoset AATAAATATTTGTTTCATTTCAA
 Squirrel_monkey AATAAATATTTGTTTCATTTCAA
 Tarsier AATAAATATTTGTTTCATTTCAA
 Bushbaby AATAAATATTTGTTTCATTTCAA
 Lemur AATAAATATTTGTTTCATTTCAA

CLUSTAL alignment for EVADR introns (i1 and i2 merged)

Human EVADR intron coords (chr6):
 intron 1(i1): 71,104,747-71,104,932
 intron 2(i2): 71,104,970-71,108,917

Human GTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAAACTCTGTGTAGCAGTGAAGATTAGA
 Chimpanzee GTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAAACTCTGTGTAGCAGTGAAGATTAGA
 Gorilla GTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAAACTCTGTGTAGCAGTGAAGATTAGA
 Orangutan GTAAAAGCAAAGCCATCTGTTGCTAAATATTGGAAACTCTGTGTAGCAGTGAAGATTAGG
 Gibbon GTAAAAGCAAAGCCATCTGTTGCTAAA-TATGGAAACTCTGTGTGGCAGTGAAGATTAGG
 Baboon GTAAAAGCAAAGCCATCTGTTGTTAA-ATATGGAAACTCTGTGTAGCAGTGAAGATA-GG
 Macaque GTAAAAGCAAAGCCATCTGTTGTTAA-ATATGGAAACTCTGTGTAGCAGTGAAGATTAGG
 Rhesus GTAAAAGCAAAGCCATCTGTTGTTAA-ATATGGAAACTCTGTGTAGCAGTGAAGATTAGG
 Marmoset GTAAAAGCAAAGCCATCTGTGGCTACA-TATGGAAACTCTGTGTACCAGTGAAGATTAGG
 Squirrel_monkey GTAAAAGCAAAGCCATCTGTGGCTACC-TATGGAAACTCTGTGTACCAGTGAAGATTAGG
 Tarsier GTAAAAGCAAAGCCATCTGCAGCTAAG-TACGGGAAGTCAGTGTGGCAGTGAAGATTAGG
 Bushbaby CTAAGAGCAAAGCCAACTGGGCTAAATACAAGA-AGTCAGCATGGCAATGAGGATTAGG
 Lemur GTACAAGAAAAGCCATCTGCAGCTAAG-TAGGAGAAGTCATCGTGGCAGGGAGGATTAGG

Human AGT-----AGTTAATGATTGGAGGA-----TGACCCCT--CTCAAAAA-----A
 Chimpanzee AGT-----AGTTAATGATTGGAGGA-----TGACCCCT--CTCAAAAA-----A
 Gorilla AGT-----AGTTAATGATTGGAGGA-----TGACCCCT--CTCAAAAA-----A
 Orangutan AGT-----AGTTAATGATTGGAGGA-----TGACCCCT--CTCAAAAA-----AAA
 Gibbon AGT-----AGTTAATGATTGGAGGA-----TGACCCCT--CTCAAAAA-----AAA

Baboon AGT-----AGTTAATGATAGAAGGATGACCCCTCTCAAAAAA-A--AAAA---AGA
Macaque AGT-----AGTTAATGATAGAAGGATGACCCCTCTCAAAAAA---AAAA---AGA
Rhesus AGT-----AGTTAATGATAGAAGGATGACCCCTCTCAAAAAA---AAAA---AGA
Marmoset TAT-----AATGATAGAAGGATGACCAGAGGTGACCCCTC--CCCC-GAA---AAA
Squirrel_monkey AAT-----AATGATAGAAGGATGACCAGAGGTGACCCCTC--CCCCCAA---AAA
Tarsier AGTAGTTAATAATAGGAGGATGGCTAGAGGTGTCCTCTCTCAAAAGAA-----AAA
Bushbaby AGTAGATAGTTAATGATAGGAAGATAGCCAGAGGTGTTCCCCCTCCACCCCTGCCAAA
Lemur AGTAGCTAATGACAGGAGCCTGGCTGAGGTGTCCTCCCCCAAAAAA-----ACA

Human -A-----AAAAAGTTACATTGAGGGCCCCGAGACATTGAATGAAA
Chimpanzee -A-----AAAAAGTTACATTGAGGGCCCCGAGACATTGAATGAAA
Gorilla AA-----AAAAAGTTACATTGACGGCCGAGCAGACATTGAATGAAA
Orangutan AA-----AAAAAGTTACATTGAGGGCCCCGAGCAGACATTGAATGAAA
Gibbon AA-----AAAAAATTACATTGAGGGCCCCGAGCAGACATTGAATGAAA
Baboon AA-----AAAAAGTTACATTGAGGGCCCCGAGCAGACATTGAATGAAA
Macaque AA-----AAAAAGTTACATTGAGGGCCCCGAGCAGACATTGAATGAAA
Rhesus AA-----AAAAAGTTACATTGAGGGCCCCGAGCAGACATTGAATGAAA
Marmoset AT-----TGTAATTACATTGAGGGCCCCGAGCAGACATTGAATGAAG
Squirrel_monkey AT-----TGTAATTACATTGAGGGCCCCGAGCAGACATTGAATGAAG
Tarsier A-----GTTTTTTGAAACGATATTGAGGTACCAACAGACATTGAATGAAA
Bushbaby ACAGAAATCAACAACAAAAAACACCTTTTTTTAAAGCCATATAGAGAGCTC---ATA
Lemur A-----CTTTT-TTAAGCCACATAGAGTGCTCAGTAAACATTTAATGAAA

Human AATA-----TGAACTCAAGTCAAAAAATTGTTTTTCGCA-TTTTTTCCAGCAGGTA
Chimpanzee AATA-----TGAACTCAAGTCAAAAAATTGTTTTTGCA-TTTTTTCCAGCAGGTA
Gorilla AATA-----TGAACTCAAGTAAAAAACTGTTTTTGCA-TTTTTTCCAGCAGGTA
Orangutan AATA-----TGAACTCAAGTCAAAAAATTGTTTTTGCA-TTTTTTCCAGCAGGTA
Gibbon GATA-----TGAACTCAAGTCAAAAAATTGTTTTTGCA-ATTTTTTCCAGCAGGTA
Baboon AATA-----TGAACTCAAGTAAAAAAATTTT--TTGCAT-TTTTTTCCAGCAGGTA
Macaque AATA-----TGAACTCAAGTAAAAAAATTTT--TTGCAT-TTTTTTCCAGCAGGTA
Rhesus AATA-----CGAACTCAAGTAAAAAAATTTT--TTGCATTTTTTTTTCCAGCAGGTA
Marmoset ACTA-----TAAACTCAAGTCAAAAAATTTTTCTGCATTTTTTTGCGCAGCAGATA
Squirrel_monkey GCTA-----TAAACTCAAGTCAAAAAATTTTTCAGCATTTT--TTTCCAGCAGGCA
Tarsier ACTATGAACCTGTAGTATTGCAAGTCAAAAAATGCTTTTGCATTTTTCTTCCAGCAAGCA
Bushbaby AACAA-----TTTTAATGAAAAGT-AAGAAGTGCTTTTTCTTTTTCTCCAGCAAGTA
Lemur TATGTGAACCTGCTTTTTGCACCTTTTTCCAGCAA-CFTT---ACCAATGTCCTGAAGGTA

Human AGATATGATCTGAAAAATGTTTGACATGGCTGCTTTTTGCCATAAAAACAAAGTAGAAAAAT
Chimpanzee AGATATGGTATGAAAAATGTTTGACATGGCTGCTTTTTGCCATAAAAACAAAGTAGAAAAAT
Gorilla AGATATGGTATGAAAAATGTTTGACATGGCTGCTTTTTGCCATAAAAACATAGTAGAAAAAT
Orangutan AGATATGGTATGAAAAATGTTTGACATGGCTGCTTTTTGCCATAAAAACAAAGTAGAAAAAT
Gibbon AGATATGGTATGAAAAATGTTTGACATGGCTGCTTTTTGCCATAAAAACAAAGTAGAAAAAT
Baboon AGATATGGCATGAAAAATGTTTGACATGGCTACTTTTTGCCGTAAACAGAAAGTAGAAAAAT
Macaque AGATATGGCATGAAAAATGTTTGACATGGCTACTTTTTGCCGTAAACAGAAAGTAGAAAAAT
Rhesus AGATATGGCATGAAAAATGTTTGACATGGCTACTTTTTGCCGTAAACAGAAAGTAGAAAAAT
Marmoset AGATATGGCATGAAAAATGTTTAAACATAGCTACTTTTTGCCATAG-AACAAAGAGAAAAAT
Squirrel_monkey ATATATGGCATGAAAAATGTTTGACATGGCTACTTTTTGCCATAG-AACAAAGAGAAAAAT
Tarsier AGATATGGCATGAAAAATTTGACATGGCTACTGTTGCCTTAAACA-GAGTAGAAAAAT
Bushbaby AGATCGCCCTGAAAAATTTTTAACATGGCAATTTTTGCCATAACACA-AAGTAGAAAAAT
Lemur AGACAAGGCATGAAAAATTTTTAACATGACTGCTTTTTGCCATAAAACA-AACTAGAAAAAT

Human AATTAATGTAG-TCCATTTCTAGAGTTACCT-AAGTGTAGTGTGGCTTATAAGACAGA
Chimpanzee AATTAATGTAG-TCCATTTCTAGAGTTACCTGAAGTGTAGTGTGGCTTATAAGACAGA
Gorilla AATTAATGTAG-TCCATTTCTAGAGTTACCTGAAGTGTAGTGTGGCTTATAAGACAGA
Orangutan AATTAATGTAG-TCCATTTCTAGAGTTACCTGAAGTGTAGTGTGGCTTATAAGACAGA
Gibbon AATTAATGTAG-TCCATTTCTAGAGTTACCTAAAGTGTAGTGTGGCTTATAAGACAGA
Baboon AATTAAGTAGTTCATTTCTAGCGTTACCTAAAGTGCAGTGTGGCTTATAAGACAGA
Macaque AATTAAGTAGTTCATTTCTAGCGTTACCTAAAGTGCAGTGTGGCTTATAAGACAGA
Rhesus AATTAAGTAGTTCATTTCTAGCGTTACCTAAAGTGCAGTGTGGCTTATAAGACAGA
Marmoset AATTAATGTAA-TCCATTTCAAGAGTACCACAAGTGTAGTGTGGCTTATAAGACAGA
Squirrel_monkey AATTAATGTAG-TCCATTTCAAGAGTACCACAAGTGTAGTGTGGCTTATAAGACGGA
Tarsier AATTAATGTAG-T---ATACAAGACTTATCTAAAGTGTAGTGTGGCTTGTGAGACGGA
Bushbaby AATTAATGTAG-T---TGAGTACATTACCTAACGTGTAGCTTGTGGCTTATGAGACAGA
Lemur AATTAATGTAG-TCCATTTCAAGAGTACCACAAGTGTAGTGTGGCTTATGAGACAGA

Human ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Chimpanzee ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Gorilla ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Orangutan ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Gibbon ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Baboon ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Macaque ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT
Rhesus ATACCTGGACCTGCCTCATGTGTGCCTATTGTTTGTGCTGAAAGGATTTTAACTCCTATAAT

Marmoset ATACCTGGACCTGTCTCATGTGTGCCTGTCTGTTTGTCTGAAAGTATTTAATCCTATAAT
Squirrel_monkey ATACCTGGACCTGTCTCATGTGTGCCTATTGTTTGCAGAAAGGATTTAATCCTATAAT
Tarsier ATACCTGGAACCTGCATCA--GATCTCTATTGTTTCTGAAAGGATTTAATCCTATAAT
Bushbaby ATACCTGGACCTGCCTAA--TGTCCCTATTGTTGGCTGAAAAGTTTTAATCCAATAAT
Lemur ATACCTGGACCTGCCTAA--CGCCCTATTGTTTGTCTGAAAGGTTTTAATCCTATAAT

Human AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Chimpanzee AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Gorilla AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Orangutan AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Gibbon AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Baboon AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Macaque AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Rhesus AAAATCTCTCACAAACATGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAATGAGAA
Marmoset AAAATCTCTCAAAACGTGCCATGGAAAGTATTTCTAGAATCTTAAAAAC TAGTAAGAA
Squirrel_monkey AAAATCTCTCAAAACGTGCCATGGAAAGGATTTCTAGAATCTTAAAAAC TAATGAGAA
Tarsier AAAATCTCTCAGCATATGATGGAAAGTATTTCTAGAATTTTTAAACAC TAATGAGAA
Bushbaby GAAATCTCTTACAGCATACTATGGAAAGTATTTCTAGAATTTTTAAAAAC TAATGAGAA
Lemur AAAATCTCTCAGCATACTATGGAAAGTATTTCTAGAATTTTTAAAAAC TAATGAGAA

Human GGAAGCTTGAATATGCTGATTAACATGGAAGCTTGTACTGGAAAAGAAAAGCAAACCTG
Chimpanzee GGAAGCTTGAATATGCTGATTAACATGGAAGCTTGTACTGGAAAAGAAAAGCAAACCTG
Gorilla GGAAGCTTGCATATGCTGATTAACATGGAAGCTTGTACTGGAAAAGAAAAGCAAACCTG
Orangutan GGAAGATTGAATATGCTCATTAAACATGGAAGCTAGTTACTGGAAAAGAAAAGCAAACCTG
Gibbon GGAAGCTTGAATATGCTGATTAACATGGAAGCTAGTTACTGGAAAAGAAAAGCAAACCTG
Baboon GGAAGCTTGAACATGCTGATTAACATGGAAGCTAGTTACTGGAAAAGAAAAGCAAACCTG
Macaque GGAAGCTTGAACATGCTGATTAACATAGAAGCTAGTTACTGGAAAAGAAAAGCAAACCTG
Rhesus GGAAGCTTGAACATGCTGATTAACATAGAAGCTAGTTACTGGAAAAGAAAAGCAAACCTG
Marmoset GGAAGCTTGAATATGCTGATTAACAGAGAAGCTAGTTACTGGAAAAGAAAAGCAAAGTTG
Squirrel_monkey GGAAGCTTGAATATGCTGATTAACAGAGAAGCTAGTTACTGGAAAAGAAAAGCAAAGTTG
Tarsier GGAAGCTTGAATATGCTGATTAACATCTAAGTTAGTTATTGGAAAAGAAAAGCAAAGTTG
Bushbaby GGAAGCTTGAATATGCTGATTAATGTCAAGCGAGTTATTGGACAAGAAAAGCAAAGTTG
Lemur GGAAGCTTGAATATGCTGATTAACGTGTAAGCTAGTTACTGGAAAAGAAAAGCAAAGTTG

Human AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAAAAGATTACATAACTGCAC
Chimpanzee AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAAAAGATTACATAACTGCAC
Gorilla AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAAAAGATTACATAACTGCAT
Orangutan AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAAAAGATTGCATAACTGAAT
Gibbon AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAAAAGATTACCTAACTGAAT
Baboon AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAA--GATTACATAACTGAAT
Macaque AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAA--GATTACATAACTGAAT
Rhesus AAAGATATTGTTTTAATATCCT-----TTCAGCTACTCTAA--GATTACATAACTGAAT
Marmoset AAAGATATTG--TTAATATCCT-----TTCAGCTACTCTAAAAGATTATATAACTGAAT
Squirrel_monkey AAAGATATTG--TTAATATCCT-----TTCAGCTACTCTAAAAGATTATTTAACTGAAT
Tarsier AAAGATATTGTTTTAATATCCT-----TTTCAGCTACTCTAAAAGATTACATAACTGACT
Bushbaby AAAGATCATTGTTTTAATATCCTTTCTTTCAGCTACTCTGAAAAGATTACATAACTGATT
Lemur AAAGATCATTGTTTTAATATCCT----TTTCAGCTACTCTAAAAGATTACATATCTGATT

Human ATAGAACAAGCTATATAAAGTACAAGGCTTAGTCAAAGAAACATCAGGCTAATACCTGAG
Chimpanzee ATAGAACAAGCTATATAAAGTACAAGGCTTAGTCAAAGAAACATCAGGCTAATACCTGAG
Gorilla ATAGAACAAGCTATATAAAGTACAAGGCTTAGTCAAAGAAACATCAGGCTAATACCTGAG
Orangutan ATAGAACAAGCTATATAAAGTACAAGGCTTAGTCAAAGAAACATCAGGCTAATACCTGAG
Gibbon ATAGAACAAGCTATATAAAGTACAAGGCTGAGTCAAAGAAACATCAGGCTAATACCTGAG
Baboon ATAGAACAAGCTATATAAAGTACAAGGCTTAGTAAAAGAAACATCAGGCTAATACCTGAG
Macaque ATAGAACAAGCTATATAAAGTACAAGGCTTAGTAAAAGAAACATCAGGCTAATACCTGAG
Rhesus ATAGAACAAGCTATATAAAGTACAAGGCTTAGTAAAAGAAACATCAGGCTAATACCTGAG
Marmoset ATAGAACAAGCTATGTAAGTACAAGGCTTAGTCAAAGAAACATCAGGCTAATACCTGAG
Squirrel_monkey ATAGAACAAGCTATAGTAAGTACAAGGCTTAGTCAAAGAAATATCAGGCTAATACCTGAG
Tarsier ATAGAACAAGCTATATAAAGCACAAGGCTTAGTCAAAGAAATATCAGTCTAATACCTGAG
Bushbaby ATAGAACAAGTTCTATATAAAGACAAGGCTTAGTCAAAGAAATATCAT--CTCATACCTGAG
Lemur ATAGAACAAGTTATATAAAGTACAAGGCTTAGTCAAAGAAATATCAGTCTCATACCTGTA

Human TTTTCATACTTAATACAAAAGTCTAAAATATTTCTTAC--CCCCGACCTGAATATGGCTT
Chimpanzee TTTTCATACTTAATACAAAAGTCTAAAATATTTCTTAC--CCCCGACCTGAATATGGCTT
Gorilla TTTTCATACTTAATACAAAAGTCTAAAATATTTCTTAC--CCCCGACCTGAATATGGCTT
Orangutan TTTTCATACTTAGTACAAAAGTCTAAAATATTTCTTAC--CCCCGACCTGAATATGGCTT
Gibbon TTTTCATACTTAGAACAAAAGTCTAAAATATTTCTTAC--TCCCGACTGAATATGGCTT
Baboon TTTTCATACT-----TATGGCTT
Macaque TTTTCATACT-----TATGGCTT
Rhesus TTTTCATACT-----TATGGCTT
Marmoset TTTTCATACTTAGTACGAAAGTCTAAAATATTTT-TGC--CCCCAACCTGAATATGGCTT
Squirrel_monkey TTTTCATACATAGTACAAAAGTCTAAAAGTATTTTTTAC--CCCCAACCTGAATATGGCTT
Tarsier TTTTCAGACTTAATATAAAGTCTTAAAGATTTTTTTTATCCCTTCTTGAATATCACTT

Bushbaby TTTTCCTACTTAGTATAAAATGCTAGATTTTTTTTA-C--CCTCCAACCTTTATATGGCTT
Lemur TTTTCATACTTAGTATAAAAAGTCTAGAGACTTTATCCCCACCTAAATAGTCTTAAAAAT

Human CAACTTCTCATACAATGTAAGTACTACTAGCCTAATAGATATTTTAGAATTAATTTATTGCAAGT
Chimpanzee CAACTTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Gorilla CAACTTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Orangutan AAAGTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Gibbon AAAATTTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Baboon AAAGTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Macaque AAAGTCTCATACAATGTAAGTACTACTAGCCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Rhesus AAAGTCTCATACAATGTAAGTACTANN--
Marmoset AAAGTTTTCTCATACAATGTAAGTACTACTAGCCTCATAGACATTTTAGAATTAATTTATTGCAAGT
Squirrel_monkey AAAGTTTTCTCATACAATGTTTCTACTGGCTAATAGACATTTTAGAATTAATTTATTGCAAGT
Tarsier AAAGTCTCATACAATGTAAGTACTACTGGCTAATAGACATTTTATAATTAATTTATTGCAAGT
Bushbaby GAAATTTCCATACAATGTAAGTACTACTAGCAA---AGACATTTTAGAATTAATTTATTGCAAGT
Lemur TCCCATACA-----TGCTTTACT--ACATATAGACATTCTAGA-----

Human AGTTCATGTATATAAATGCATTTTTATTTCAACTTTAA-----
Chimpanzee AGTTCATGTATATAAATGCATTTTTATTTCAACTTTAA-----
Gorilla AGTTCATGTATATAAATGCATTTTTATTTCAACTTTAA-----
Orangutan AGTTCATGTAGATAAATGCATTTTTATTTCAACTTTAA-----
Gibbon AGTTCATGTAGATAAATGCATTTTTATTTCAACTTTAA-----
Baboon AGTTCATGGAGATAAGTGCATTTTTATTTCAACTTTAA-----
Macaque AGTTCATGGAGATAAGTGCATTTTTATTTCAACTTTAA-----
Rhesus -----
Marmoset AGTTCATGTAGATAAATGCATTTTTATTTCAACTTTAA-----
Squirrel_monkey AGTTCATGTAGATAAATGCATTTTTATTTCAACTTTAA-----
Tarsier AGTTTTGTGTATCTAAATGCATTT-----TTGTTCAACTTT
Bushbaby AGTTTTGGGTAGATAAATGAATTTTTTTTATTTTGGATAAATGAGTTTTTGTTCACACTTT
Lemur -----

Human -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Chimpanzee -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Gorilla -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Orangutan -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Gibbon -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Baboon -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGATC
Macaque -----GTAGT--TTGTTTCATT-----TGAGTATAAATAAGCAATCTCATCAATGATC
Rhesus -----NN
Marmoset -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGACC
Squirrel_monkey -----GTAGT--TTGTTTCATTGTTTTGAGTATAAATAAGCAATCTCATCAATGACC
Tarsier GACATTAAGTTGTTTGTGAAGTTGTTTTGAGTGCAACTAGGCAATCTCTTCAATGATC
Bushbaby GACATTAAGTTGTTTGTGAAGTTGTTTTGAGTATATTTAGGCAATCTCTTCAATGATC
Lemur -----

Human ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Chimpanzee ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Gorilla ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Orangutan ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Gibbon ACTTCAAAGATACAGTTGATTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Baboon ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Macaque ACTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCACAAAGCATTATAGGATTA
Rhesus NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTTAATCATTATTCACAAAGCATTATAGGATTA
Marmoset ATTTGAAAGATACAGTTTATTTAAATATCTTAATCATTATTCATAAAGTATTATAGGAATTA
Squirrel_monkey ATTTCAAAGATACAGTTTATTTAAATATCTTAATCATTATTCATAAAGCATTATAGGATTA
Tarsier ATTTCAAAGATATGCTTTTATTTAAATATTTTAAATCATTATTCACAAAACAACATTGTAAAG
Bushbaby ATTTCAAAGATATAATTAGTTAAATATCTTAATCATTATTCACAAAGCATTATACGA
Lemur -----

Human TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Chimpanzee TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Gorilla TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Orangutan TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Gibbon TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Baboon TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Macaque TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Rhesus TTAGTA---AAGCTCCCTAATAGATAGTATTATTATTTTCACTCTTTCC--CAGGAGTCAGT
Marmoset TCAGTA---AAGTCCCTAATAGATAGTACTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Squirrel_monkey TCAGTA---AAGTCCCTAATAGATAGTACTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Tarsier TTAATAGTAAAGCTCCCTAATAGAGCGTATCATTATTTTCACTCTTTCCAAGGAGTCAGT
Bushbaby TTAAGTAAAGCTCCCTAATAGATAGTACTATTATTATTTTCACTCTTTCCAAGGAGTCAGT
Lemur -----

Human TGTC AATATAAAAAATACGTTTAGAGAATGGGT CAGTAAAGCAGCAATTTGAAT---AA
Chimpanzee TGTTAATATTAAAAAATATGTTTAGAGAATGGGT CAGTAAAGCAGCAATTTGAAT---AA
Gorilla TGTC AATATAAAAAATATGTTTAGAGAATGGGT CAGTAAAGCAGCAATTTGAAT---AA
Orangutan TGTC AATATAAAAAATATGTTTAGAGAATGGGT CAGTAAAGCAGCGATTTGAAT---AA
Gibbon TGTC AATATAAAAAATATGTTTAGAGAATGGGT CAGTAAAGCAGCGATTTGAAT---AA
Baboon TGTC AATATAAAAAATATGTTTAGAGAATGGGT CAGTAAAGTAGCGATTTGAAT---AA
Macaque TGTC AATATAAAAAATATGTTTAGAGAACGGGT CAGTAAAGCAGCGATTTGAAT---AA
Rhesus TGTC AATATAAAAAATATGTTTAGAGAACGGGT CAGTAAAGCAGCGATTTGAAT---AA
Marmoset CATCAATATAAAAAATATGTTTAGAGAATGGGT CAGTAAAGCAACAAATTTGAAGGATAA
Squirrel_monkey TGTC AATATAAAAAATGATGTT CAGAGAATGGGT CAGTAAAGCAGCGATTTGAAGGATAA
Tarsier TGTC AATATAAAAAATATGTTTAGGACATTTGTCAGTGAAGGAGGACAAGACAAT---
Bushbaby TGTCGACATAAACAAATATGTTTAGGAAA-GGGGTT-----
Lemur -----

Human TGAAGGATATTTGAACGATTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Chimpanzee TGAAGGATATTTGAACGATTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGCGA
Gorilla TGAAGGATATTTGAACGATTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Orangutan TGAAGGATATTTGAATGATTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Gibbon TGAAGGATATTTGAACGACTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Baboon TGAAGGATATTTGAACGATTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Macaque TGAAGGATATTTGAACAAATGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Rhesus TGAAGGATATTTGAACAAATGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Marmoset TGAAGAATATTTGAATGACTGAAGGATAATGAATCAAACCTGAGGCAAAACAAAGGAAGTGA
Squirrel_monkey TGAAGAATATTTGAATGACTGAAGGATAATGAATCAAACCTGAGGCAAAAC---GAAGTGA
Tarsier -----TTATTGAAGAATAATGAATGGAGGTAACAGAGGAAATGA
Bushbaby ---GGTGAAGACGACTTATTGAAGGATAAAGACTCAAATCGAGGCCAACACAGGAAGTGA
Lemur -----

Human GAATGAAGAATAAAGTGATGTAAGAATAATATAAGAATAGTAAGGAGCATTTTATATAAA
Chimpanzee GAATGAAGAATAAAGTGATGTAAGAATAATATAAGAATAGTAAGGAGCATTTTATATAAA
Gorilla GAATGAAGAATAAAGTGATGTAAGAATAATATAAGAATAGTAAGGAGCATTTTATATAAA
Orangutan GAATGAAGAATAAAGTGATGTAAGAATAATATAAGAATAGTAAGGAGCATTTTATATAAA
Gibbon GAATGAAGAATAAAGTGATGTAAGAATAATATAAGAATAGTAAGGAGCATTTTATATAAA
Baboon AAATGAAGAATAAAGTGATGTAAGAATAACTGTGAAGAATAGTAAGGAGCATTTTATATAAA
Macaque AAATGAAGAATAAAGTGATGTAAGAATAACTGTGAAGAATAGTAAGGAGTATTTTATATAAA
Rhesus AAATGAAGAATAAAGTGATGTAAGAATAACTGTGAAGAATAGTAAGGAGTATTTTATATAAA
Marmoset GAATGAA--ATAAAGTAATGTCAATAATTAATATAAGAATAGTAAGGAGCATTTTATATAAA
Squirrel_monkey GAATGAA--ATAAAGTAATGTCAATAATTAATATAAGAATAGTAAGGAGCATTTTATATAAA
Tarsier GAACGAAGAACAAGCAATGTCAAGAATCAATGTGAAGAACAATCAAGTGTGTTTATATAAA
Bushbaby GAACGAAGAATCA--AGGTATAAAGAATAATATAAGTAATGGTGAGGTGCATTTTATATAAA
Lemur -----

Human TAAACCGTTAAAAGCAAGTTCCTTCACAATAAACAAACTCTGAACAATGAGTCTATGAGGA
Chimpanzee TAAACTGTTAAAAGCAAGTTCCTTCACAATAAACAAACTCTGAACAATGAGTCTATGAGGA
Gorilla TAAACTGTTAAAAGCAAGTTCCTTCACAATAAACAAACTCTGAACAAGAGTCTATGAGGA
Orangutan TAAACTGTTAAAAGCAAAATTCCTTCACAATAAACAAACTCTGAACAATGAGTCTATGAGGA
Gibbon TAAACTGTTAAAAGCAAGTTCCTTCACAATAAACAAACTCTGAACAATGAGTCTATGAGGA
Baboon CAAACTGTCAAAGCAAAATTCCTTCACAATAAACAAACTCTGAACAATAAGTCTATGAGGA
Macaque CAAACTGTCAAAGCAAAATTCCTTCACAATAAACAAACTCTGAACAATAAGTCTATGAGGA
Rhesus CAAACTGTCAAAGCAAAATTCCTTCACAATAAACAAACTCTGAACAATAAGTCTACGAGGA
Marmoset TAAACTGTTAAAAGTAAACTGTTTCACAATAAACAAACTCTGAACAATGAGTCTGTGAGGA
Squirrel_monkey TAAACTGTTAAAATCAAACATAATTCACAATAAACAAACCTGAACAATGAGTCTGTGGGGA
Tarsier TAAAACCTTACAAGGCAACTTCCTTCAGATAAATAAGCTCTAAAACAACGAGTCTATGAGGT
Bushbaby TAAAATTTGTAAGGCAAAATTTTTCAGATAAACAAGCTCTAAAACAATGAGTCTCCAAGGA
Lemur -----

Human GCTGCCACTGAACTT-TAAGTTGCTCAAACACACTAACTGTGGAAG----AGTAGTACAA
Chimpanzee GCTGCCACTGAACTT-GAAGTTGCTCAAACAC----ACTGTGGAAG----AGTAGTACAA
Gorilla GCTGCCACTGAACTT-TAAGTTGCTCAAACACACTAACTGTGGAAG----AGTAGTACAA
Orangutan GCTGCCACTGAACTT-GAAGTTGCTCAAACACACTAACTGTGGAAG----AGTAGTACAA
Gibbon GATGCCACTGAACTT-TAAGTTGCTCAAACACACTAACTGTGGAAG----AGTAGTACAA
Baboon GTTGCCACTGAACTT-TAAGTTGCTCGAACACACTAACTGTGGAAG----AGTAGTACAA
Macaque GTTGCCACTGAACTT-TAAGTTGCTCGAACACACTAACTGTGGAAG----AGTAGTACAA
Rhesus GTTGCCACTGAACTTTAAGTTGCTCGAACACACTAACTGTGGAAG----AGTAGTACAA
Marmoset GCTGCTACTGAACTT-TAAGTTGCTCAAACATACTAACTGTGGAAG----AGCAGTACAA
Squirrel_monkey GCTGCTACTGAACTT-TAAGTTGCTCAAACATACTAACTGTGGAAG----AGCAGTACAA
Tarsier ATTGCCACTGAGCCTCAGCTCCTCACACATTG--ACACCAACCGTGAAGGAGCCGTGCTA
Bushbaby GCTGGCACTGAACTCCCTAGTTTCTCATACGCTCCGCTAACGATGGAAGGACTGTACAA
Lemur -----

Human ATGAC---AAGTAGGCTTCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC
Chimpanzee ATGAC---AAGTAGGCTTCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC
Gorilla ATGAC---AAGTAGGCTTCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC

Orangutan ATAAAC---AAGTAGGCTTCCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TCCC
Gibbon ATGAC---AGGTAGGCTTCCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC
Baboon ATGAC---AAGTAGGCTTCCCACCAAGCAAACTAGAAAATAAAAATTTGA-----TTCC
Macaque ATGAC---AAGTAGGCTTCCCCT-----AGAAAATAAAAATTTGA-----TTCC
Rhesus ATGAC---AAGTAGGCTTCCCCT-----AGAAAATAAAAATTTGA-----TTCC
Marmoset ATGAC---AAGTAGGCTTCCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC
Squirrel_monkey ATGAC---AAGTAGGCTTCCCACCAAGCAAACTAGAAAATCAAAATTTGT-----TTCC
Tarsier AT---GGCACCAGGATTCCCACCAGGCAGAGCTAGAAAATCTGTGCAGCA-----TGCT
Bushbaby ATGACTGTTTCGACGGCTTCCCACCAGGCAAACTCAAAAATCAATGCATTTTTTTCCAGA
Lemur -----

Human AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTT---TTTTCTTTGC
Chimpanzee AGCAGTAGTACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTT---TTTTCTTTGC
Gorilla AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTT---TTTTCTTTGC
Orangutan AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTT---TTTTCTTTGC
Gibbon AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTT---TTTTCTTTGC
Baboon AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTTAGACATTTCTTGT
Macaque AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTTAGACATTTCTTGT
Rhesus AGCAGTAGCACATCTTCAAGTCCCTCCTCCTCACTTCTCCTTTCTTAGACATTTCTTGT
Marmoset AGCAGTAGTACATCTTCAAGTCCCTTTTCACTTCTCCTTTTGAC---A-TTCTTTGT
Squirrel_monkey AGCAGTAGCACATCTTCAAGTCCCTTTTCACTTCTCCTTTTGAC---A-GTCTTTGT
Tarsier TTCAGCAACCCATCTTCAAGTC-CTTTGCCCTACTTCTCCTTTGTTGATATTTCTTCT
Bushbaby AGCAGCAGCCTGTCTTCAAAATCCCTGTGCTTTACTTCTTCTTTCTGTGACATTTCTTCT
Lemur -----

Human CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Chimpanzee CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Gorilla CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Orangutan CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Gibbon CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Baboon CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Macaque CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Rhesus CAAAACAAAACAGATCTACTTAAAAGGCCAAAGGCCACTGGAGAAA--GAGTTTATGATC
Marmoset CAAAACAAAACATATACTACTTAAAAGGTTAACGGCCACTGGAGAAA--CAGTTTATGATC
Squirrel_monkey CAAAACAAAACAGATCTACTTAAAAGTTCAAAGGCCACTGGAGAAA--TAGTTCATGATC
Tarsier CAAAACAAAACAGATCAACAAGAAATCA--AAGACCCTCAAGAAAGGGGCATGATTATA
Bushbaby CAAGTCAATAA-----TAAAAGGTCAAAGTTCACTCAAAAAGTAAATTCATGCTA
Lemur -----

Human -----AGACAACCCAGGTGTCTATGTCTAAAAGGGAATACAGGTCTTGAAATGAGAT
Chimpanzee -----AGACAACCCAGGTGTCTATGTCTAAAAGGGAATACAGGTCTTGAAATGAGAT
Gorilla -----AGACAACCCAGGTGTCTATGTCTAAAAGGGAATACAGGTCTTGAAATGAGAT
Orangutan -----AGACAACCCAGGTGTCTATGTCTAAAAGGGAATACAGGTCTTGAAATGAGAT
Gibbon -----AGACAACCCAGGTGTCTATGTCTAAAAGGGAATACAGGTCTTGAAATGAGAT
Baboon -----AGACAACCCAGGTGTCTGTCTATAAGGGAATACAGGTCTTGAAATGAGAT
Macaque -----AGACAACCCAGGTGTCTGTCTATAAGGGAATACAGGTCTTGAAATGAGAT
Rhesus -----AGACAACCCAGGTGTCTGTCTATAAGGGAATACAGGTCTTGAAATGAGAT
Marmoset -----AGAAAATACAGGTGTCTGTCTTAAAGAGAAATACAGGTCTTGAAATGAGAT
Squirrel_monkey -----AGAAAACACAGGTATCCTGTGTCTTAAAGAGAAATACAGATCTTGAAATGAGAT
Tarsier CAACATAGGTG-TTTTGTGTCTAAAGGAGAAAAGGGAATTCAGGTCTCTAGATGAGAT
Bushbaby AGACAACCCAGGTGTTGGGTGTCTAACGGAGAAAAGGGAACAGTGGTCTTAAATGAGAT
Lemur -----

Human AGACTGTGAAAATAATGAATTAGTTAGAATTCATAGGGAAAGAACTTCATTCTTAAACAC
Chimpanzee AGACTGTGAAAATAATGAATTAGTTAGAATTCACAGGGAAAGAACTTCATTCTTAAACAC
Gorilla AGACTGTGAAAATAATGAATTAGTTAGAATTCATAGGGAAAGAACTTCATTCTTAAACAC
Orangutan AGACTGTGAAAATAATGAATTAGTTAGAATTCATAGGGAAAGAACTTCATTCTTAAACAC
Gibbon AGACTGTGAAAATAATGAATTAGTTAGAATTCATAGGGAAAGAACTTCATTCTTAAACAC
Baboon AGACTG--GAAATAATGAATTAATTAGAATTCACAGGGAAAGAACTTCATTCTTAGCAT
Macaque GGACTG--GAAATAATGAATTAGTTAGAATTCACAGGGAAAGAACTTCATTCTTAGCAT
Rhesus AGACTG--GAAATAATGAATTAGTTAGAATTCACATGGAAAGAACTTCATTCTTAGCAT
Marmoset AGACT--GAAATAATGAATTAGTTAGAATTCATAGGGAAGGAACTTCATTCTTAAACAC
Squirrel_monkey AGACTGTGAAAATAATGAATTCGTTAGAATTCATAGGGAAGGAACTTCATTCTTAAACAC
Tarsier AGACTGTGAAAGTAATAAATTAGTTAGAATGGGTAGAAAAGAAGTTCCTTCTTAAATAC
Bushbaby AGACTGTGAAGATAATAAATTAGCTAGAACTGACAGGAAAGAAC--CGATGCCTTAAACAC
Lemur -----

Human TTATCATCATGGTATTGTTTCTGCGGTGTGTTATTACTTCAGTAACCTTCTCTGTAATG
Chimpanzee TTATCATCATGGTATTGTTTCTGTGGGTGTTATTACTTCAGTAGCTTCTTCTGTAATG
Gorilla TTATCATCATGGTATTGTTTCTGTGGGTGTTATTACTTCAGTAACCTTCTCTGTAATG
Orangutan TTATCATCATGGTATTGTTTCTGTGGGTGTTATTACTTCAGTAACCTTCTCTGTAATG
Gibbon TTATCATCATGGTATTGTTTCTGTGGGTGTTATTACTTCAGTAACCTTCTCTGTAATG
Baboon TTATCTTCATGGTATTGTTTCTGTGGGTGTTATTAGTACTTCAGTAACCTTCTCTGTAATG

Macaque TTATCTTCATGGTATTGTTTCTGTGGTGTATTAGTACTTCAGTAACTTATTCTGTAAATG
Rhesus TTATCTTCATGGTATTGTTTCTGTGGTGTATTAGTACTTCAGTAACTTATTCTGTAAATG
Marmoset TTGTCATCATGGTATTGTTTCTGTGGTATATATTACTTCAGTAACTTCTTCTGTAAATG
Squirrel_monkey TTGTCATCATGGTATTGTTTCTGTGGTATATATTACTTCAGTAACTTCTTCTGTAAACG
Tarsier TTCCACCATGGTATTGTTTGTGGTATATATTACTTCAGGATCCTCTTCTTATAATG
Bushbaby TCTCCACCATGGTGC-----GTCTCTTCAGTATCATCTTCCATAAAC
Lemur -----

Human ATCTAGGTTACATGTAGGTATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Chimpanzee ATCTAGGTTACATGTAGGTATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Gorilla ATCTAGGTTACATGTAGGTATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Orangutan ATCTAGGTTATACGTAGGTATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Gibbon ATCTAGGTTACATGTAGGTATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Baboon GTCTAGGTTACATGTAGGCATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Macaque ATCTAGGTTACATGTAGGCATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Rhesus ATCTAGGTTACATGTAGGCATGTATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Marmoset ATCTAGGTTACATGTAGGTATATATTTATCACAATAATCTGATGGCTGTCTAATAACTAG
Squirrel_monkey AACTAGGTTACATGTAGGTATATATTTATCACAATAATCTGATGGCTGCCTAATAACTAG
Tarsier ATCTAGGTTAGACGTGGGTATAAATGATTTTTCAGAAATGTGTTCTTAGTAGATTGTTATA
Bushbaby ATCTAAGTTTCGATGTGGGTATAAATCATTCTTCTGGATTA-----
Lemur -----GTAGATATTCTAT

Human TCACATACATGACATCTCTACTTCATAATAGTAGGAGCAACTT-ACCTAATCTGACTAA
Chimpanzee TCACATACATGACATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Gorilla TCACCTACATGACATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Orangutan TCACATACATGACATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Gibbon TCACATACATGACATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Baboon TCACATACATGACTAGTAACATACATCTCTACTTCATATAGTAGGAGAAACTTACTCTAA
Macaque TCACATACATGA-----CATCTCTACTTCATATAGTAGGAGAAACTTACTCTAA
Rhesus TCACATACATGA-----CATCTCTACTTCATATAGTAGGAGAAACTTACTCTAA
Marmoset TCACATGATGGCATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Squirrel_monkey TCACGTGCATGACATCTCTACTTCATAATAGTAGGAGAAACTT-ACCTAATCTGACTAA
Tarsier TCACAAATAAATGATGG-----
Bushbaby -----
Lemur CACAATAAACCAATAAA-----

Human AGTAAATATGATACATAAGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTATTA
Chimpanzee AGTAAATATGATACATAAGCCTTTTTAATTCTGCAATAACCCATTTCATCT----TATTA
Gorilla AGTAAATATGTTACATAAGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTATTA
Orangutan ATTAAATATGATACATAAGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTATTA
Gibbon AGTAAATATGATACATAAGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTACTATTA
Baboon AGTAAATATGATACATATGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTAAATA
Macaque AGTAAATATGATACATATGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTAAATA
Rhesus AGTAAATATGATACATATGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTAAATA
Marmoset AGTAAATATGATAATA-TGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTATTA
Squirrel_monkey AGTGAATATGATACATATGCCTTTTTAATTCTGCAATAACCCATTTCATCTTTATTATTA
Tarsier -----
Bushbaby -----
Lemur -----

Human ATAGATTTTTTAAA-----TTACCAGTACGTATTTTTCTGAAATGTGTGCAATCAATCCTT
Chimpanzee ATAGATTTTTTAAA-----TTACCAGTACGTATTTTTCTGAAACGTGTGCAATCAATCCTT
Gorilla ATAGATTTTTTAAA-----TTACCAGTACGTATTTTTCTGAAACGTGTGCAATCAATCCTT
Orangutan ATAGATTTTTTAAA-----TTACCAGTACATATTTTTCTGAAACGTATGCAATCAATCCTT
Gibbon AAATAGATTTTTTAAA-ATTACCAGTACGTATTTTTCTGAAACGTATGCAATCAATCCTT
Baboon GATTTTTTAA-----ATTACCAATATGTATTTTTCTGAAATGTATGCAATCAATCCTT
Macaque GATTTTTTAA-----ATTACCAATATGTATTTTTCTGAAATGTATGCAATCAATCCTT
Rhesus GATTTTTTAA-AAAAAATTACCAATATGTATTTTTCTGAAATGTATGCAATCAATCCTT
Marmoset ATAGTTAGATTTTTTAAAGTTACCAACACATATTTTTCTGAAATATATGCAATCAGTACTT
Squirrel_monkey ATAGTTAGATTTTTTTTTTT-----
Tarsier -----CTCT-----
Bushbaby -----CGTTC TAGTAGATATATATCACAA-----TAAACCAATAGCT
Lemur -----CTCT-----

Human TGTCAATCTTTACTACTACGATCTGAAGAAAGTTGCAATCCAAGAGAATAAGGGTTAC
Chimpanzee TGTCAATCTTTACTACTATGATCTGAAGAAAGTTGCAATCCAAGAGAATAAGGGTTAC
Gorilla TGTCAATCTTTACTACTATGATCTGAAGAAAGTTGCAATCCAAGAGAATAAGGGTTAC
Orangutan TGTCAATCTTTACTACTACGATCTGAAGAAAGTTGCAATCCAAGAGAATAAGGGTTAC
Gibbon TGTCAATCTTTACTATG-ATC--TGAAGAAAGTTGCAATCCAAGAGAGTAAGGGTTAC
Baboon TGTCAATCTTTACTACTATGATCTGAAGAAAGTTGCAATCCAAGAGAGTAAGGGTTAC
Macaque TGTCAATCTTTACTACTATGATCTGAAGAAAGTTGCAATCCAAGAGAGTAAGGGTTAC
Rhesus TGTCAATCTTTACTACTATGATCTGAAGAAAGTTGCAATCCAAGAGAGTAAGGGTTAC
Marmoset TGTCAATCTTTACTACT-ATGATCTAAAAAGTTGCAATCAAGAGAATAAGGGTTAC

Squirrel_monkey -----
Tarsier -----CTAATAACTAGTCACATACATGAC-----
Bushbaby TT----CTAATTACCAGTCACATGTAGCAGCTCTATTTCTAAATAGAGAAATGTGTTGT
Lemur -----CTAATAACTAGTCACATATGTGGC-----

Human AATTATACTTGAAGATGAGAGTGCTAAAAATCTGTGATATGTTTGAAAACCTA-----
Chimpanzee AATTATACTTGAAGATGAGAGTACTAAAAATCTGTGATATGTTTGAAAACCTA-----
Gorilla AATTATGCTTGAAGATGAGAGTACTAAAAATCTGTGATATGTTTGAAAACCTA-----
Orangutan AATTATACTTGAAGATGAGAGTACTAAAAATCTGTGATATGTTTGAAAACCTA-----
Gibbon AATTATACTTGAAGATGAGAGTACTAAAAATCTG--TGATGTTTGAAAACCTA-----
Baboon AATTATACTTGAAGATGAGAGTACTAAACATCTGTGATATATCTGAAAACCTAGCCAATG
Macaque AATTATACTTGAAGATGAGAGTACTAAACATCTGTGATATATCTGAAAACCTAGCCAATG
Rhesus AATTTTACTTGAAGATGAGAGTACTAAACATCTGGGATATATCTGAAAACCTAGCCAATG
Marmoset AATTATACTTGAAGATGAGCATACTAAAAATCTATGATATGTTTGAAAACCTA-----
Squirrel_monkey -----
Tarsier -----ATCTCTACTT-----
Bushbaby AATTTGACTTAACTCTGACTCA-----TATGCCTTTTTATTATATAATAATAACAT
Lemur -----ATCTCTACTT-----

Human -----
Chimpanzee -----
Gorilla -----
Orangutan -----
Gibbon -----
Baboon GGTGACTACTGCTTTCAGTACCTGACTTGCTGCCTAGTAACTAACTGGGTGCCTAAAA
Macaque GGTGACTACTGCTTTCAGTACCTGACTTGCTGCCTAGTAACTAACTGGGTGCCTAAAA
Rhesus GGTGACTACTGCTTTCAGTACCTGACTTGCTGCCTAGTAACTAACTGGGTGCCTAAAA
Marmoset -----
Squirrel_monkey -----
Tarsier -----CATATTAGTAAGAGAACTTGCTCTAAT
Bushbaby AT-----
Lemur -----CATAATAGAAGGAGGAGCTTGTCCCTAAT

Human -----
Chimpanzee -----
Gorilla -----
Orangutan -----
Gibbon -----
Baboon TTCCCTTTGTTTATTTTCAACTTCAATTATATATAAAATGAAAGATATTGTTTAAATATC
Macaque TTCCCTTTGTTTATTTTCAACTTCAATTATATATAAAATGAAAGATATTGTTTAAATATC
Rhesus TTCCCTTTGTTTATTTTCAACTTCAATTATATATAAAATGAAAGATATTGTTTAAATATC
Marmoset -----
Squirrel_monkey -----
Tarsier TTG-----ACTAAA-----GTAAAATATGACACATATGCCTTTTTTAT-
Bushbaby -----TCG--T-C-T-T--T-AC--T-T-G-T-T-
Lemur TTG-----ACTA-----AATTATGACTCATATGCCTTTTTTAA-

Human -----
Chimpanzee -----
Gorilla -----
Orangutan -----
Gibbon -----
Baboon CTTTCAGTACTCTAAGAATACATAACTGAATATAGAACAAGCTATATAAAGTACAAGGC
Macaque CTTTCAGTACTCTAAGATTACATAACTGAATATAGAACAAGCTATATAAAGTACAAGGC
Rhesus CTTTCAGTACTCTAAGATTACATAACTGAATATAGAACAAGCTATATAAAGTACAAGGC
Marmoset -----
Squirrel_monkey -----
Tarsier -----TCTAC--AATAACTCATT-----C-----A-TCTTTACTAGTTAGA
Bushbaby A-G-A-T-T-T-C-C-T-T-A-A--T-G-G-C-T-A-A-C-A-C-T-T-T-T-T-A
Lemur -----TGTAT--AATAACATATT-----C-----A-TCTTTACTAGTTAGA

Human -----
Chimpanzee -----
Gorilla -----
Orangutan -----
Gibbon -----
Baboon TTAGTAAAAGAAACATCAGGCTAATACCTGAGTTTTTCATCTTAGTACAAAAGTCTAAAA
Macaque TTAGTAAAAGAAACATCAGGCTAATACCTGCGTTTTTCATCTTAGTATAAAAAGTCTAAAA
Rhesus TTAGTAAAAGAAACATCAGGCTAATACCTGAGTTTTTCATCTTAGTGTAAACTTCTCA
Marmoset -----
Squirrel_monkey -----
Tarsier TTTTTAAGAA--T-T-----A-CCAA--CAACAA
Bushbaby -A-A-C-C-T--A-T-G-C-A-A-T-C-A-A-T-C-C-T-T-T-G-T-C-A-G-T--T-C

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Lemur          TTTTTTAAAC----T-A-----C-CAACACTTTTGT

Human          -----
Chimpanzee    -----
Gorilla       -----
Orangutan     -----
Gibbon        -----
Baboon        TATTTTTTACCCCGACCTGAATATGGCTTAAACTTCTCATACAATGTACTACTAGCTTA
Macaque       TATTTTTTACCCCGACCTGAATATAGCTTAAACTTCTCATACAATGTACTACTAGCTTA
Rhesus        TA-----CAATGTACTANNNNNNNN
Marmoset      -----
Squirrel_monkey -----
Tarsier       TTTTTCTAAAACTGGGC-AATCAACCTTTTGTCTCTTT-----ACTAC-----
Bushbaby      -T-T-T-A-G-T-A-G-T-A-T-T-A-T-T-T-G-A-A-T-T--T-A-A-G-A-A-G-C-
Lemur         TTTTTTCCAAATCTATGC-AATCAATCCTTTTCTGCTCTTT-----GCTAG-----

Human          -----
Chimpanzee    -----
Gorilla       -----
Orangutan     -----
Gibbon        -----
Baboon        ATAGTCATTTTAGAATTAATTATTGCAAGTAGTTCATGGAGATAAATGCATTTTATTCA
Macaque       ATAGTCATTTTAGAATTAATTATTGCAAGTAGTTCATGGAGATAAATGCATTTTATTCA
Rhesus        NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN-----
Marmoset      -----
Squirrel_monkey -----
Tarsier       ---TATTATTTGATTTTAAGAAAGT-TGCAATGCAAAGAGA-----ATATAGGT---
Bushbaby      T-G-C-A-A-T-T-C-A-A-A--G-A-G-A-A-T-A-T-A-G-G-T-C-A-C-A-A-T-T
Lemur         ---TATTATTTGAATTTAAGAAAGT-TGCAATGCAAAGAGA-----ATATAGGT---

Human          -----
Chimpanzee    -----
Gorilla       -----
Orangutan     -----
Gibbon        -----
Baboon        ACTTTAAGTAGTTTGTTCATTGTTTTGACTATAAATAAGCAATCTCATCAATGATCACT
Macaque       ACTTTAAGTAGTTTGATTCATTGTTTTGATTATAAATAAGCAATCTCATCAATGATCACT
Rhesus        -----NNNNNN-----NNN
Marmoset      -----
Squirrel_monkey -----
Tarsier       ---TAC-AATTATATTTG-----AAGATGAGAGTACTAAAA-A--T---
Bushbaby      -A--T-A-A-T-T-G-A-A-G-G-G-A-G-A-G-T-A-G-T-G-A-A--A-A-T-A-T
Lemur         ---AAC-AAAAATAATTG-----AAGATGAGAATACTAACA-T--T---

Human          -----
Chimpanzee    -----
Gorilla       -----
Orangutan     -----
Gibbon        -----
Baboon        TCCAAGTTACAGTTTAATATCTTAATCATTACTCACAAAGCATTATAGGATTATTAATAA
Macaque       TCCAAGTTACAGTTTAATATCTTAATCATTACTCACAAAGCATTATAGGATTATTAATAA
Rhesus        NNNNN-----
Marmoset      -----
Squirrel_monkey -----
Tarsier       -----
Bushbaby      -----
Lemur         -----

Human          -----
Chimpanzee    -----
Gorilla       -----
Orangutan     -----
Gibbon        -----
Baboon        AGCTCCCTAAT---AGTATTATTATTTTCACTCTTTCCAAGGAGTCAGTTGTCAATATA
Macaque       AGCTCCCTAATAGATAATATTATTTTCACTCTTTCCAAGGAGTCAGTTGTCAATATA
Rhesus        -----NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Marmoset      -----
Squirrel_monkey -----
Tarsier       -----
Bushbaby      -----
Lemur         -----

Human          -----GCAAATGGGTGACTCATAC

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Chimpanzee -----GCAAATGGGTGACTCATA
Gorilla -----GCAAATGGGTGACTCATA
Orangutan -----GAAAATGGGTGACTCATA
Gibbon -----GCAAATGGGTGACTCATA
Baboon AAAAAATATGTTAATATAAGAATAGTAAGGAGCATTTTATAAATAAACTGTTAAAAGCAAA
Macaque AAAAAATATGTTAATATAAGAATAGTAAGGAGCATTTTATAAATAAACTGTTAAAAGCAAA
Rhesus NNNNNNNNNNNNNNTAAGAATAGTAAGGAGCATTTTATAAATAAACTGTTAAAAGCAAA
Marmoset -----GCAAATGGGTGACTCATA
Squirrel_monkey -----
Tarsier -----GTAT-----TGATACATTAGCAAATCA-----TTGACTCTTAC
Bushbaby -----ATTGAGCCATTGGAAGACCTAGTGAATGGTTGACTCTTA
Lemur -----CTAT-----TGATACACTGAAAACCTAGCAAATGGTTGACTCATTAG

Human TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTTGTTT
Chimpanzee TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTTGTTT
Gorilla TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTCTGTTT
Orangutan TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGAGTGCCTAAAAATCCCTTTGTTT
Gibbon TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTT----
Baboon TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTTGTT-
Macaque TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTT----
Rhesus TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTT----
Marmoset TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGAGTGCCTAAAAATCCCTTTCTGT
Squirrel_monkey -----
Tarsier TTTTCATTACCTTACTTGCTGCCTAGTAAACTAAACTGGGTGCCTAAAAATCCCTTTCTAT
Bushbaby TTTTCATTATCTCACTGGATGCCTAGTGAACCTAATCTGGGAATCTAAAAATCCCTTTGTAT
Lemur TTTTCATTATTTTACTTGGTGCCTAATAAACTAAACTGGGTGCCTAAAAATCCCTTTGTAT

Human --ATTTTCAACTTCAATTATATATGCACAGTATTTTAATTACTTAGCATCTATTGTTCCA
Chimpanzee --ATTTTCAACTTCAATTATATATGCACAGTATTTTAATTACTTAGCATCTATTGTTCCA
Gorilla --ATTTTCAACTTCAATTATATATGCACAGTATTTTAATTACTTAGCATCTATTGTTCCA
Orangutan --GTTTTCAACTTCAATTATATATGCACAGTATTTTAATTACTTAGCCTCTATTGTTCTA
Gibbon --ATTTTCAACTTCAATTATATATGCACAGTATTTTAATTACTTAGCCTCTATTGTTCTA
Baboon TATTTTTCAACTTTAATTATATATGCACAGTATTTTAATTACTTAGCCTCTATTGTTCCA
Macaque -ATTTTTCAACTTTAATTATATATGCACAGTATTTTAATTACTTAGCCTCTATTGTTCCA
Rhesus -ATTTTTCAACTTTAATTATATATGCACAGTATTTTAATTACTTAGCCTCTATTGTTCCA
Marmoset TTATTTTCAACTTCTATTATATATAGGCACAGTATTTTAATTATTTAGCCTCTATTGTTCTA
Squirrel_monkey -----
Tarsier TTATTTTCAACTTCAATT----ATACATACTATTTTAATTATCTAGCCTCTATTGTTCTA
Bushbaby TTATTTTCAAGTTCAAAAT----ACATACACTATGTTAATCTGCAGCCTCTATTGTTGTA
Lemur TTATTTTCAACTTCAATT----ATATGTACTATTTTAATTATCCAGCCTCTATTATACTA

Human GGTGCTTAGATTTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Chimpanzee GGTGCTTAGATTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Gorilla GGTGCTTAGATTTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Orangutan GGTGCTTAGATTTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Gibbon GGTGCTTAGATTTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Baboon GATGCTTAGATTTTTCCACATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Macaque GATGCTTAGATTTTTCCATATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Rhesus GATGCTTAGATTTTTCCATATCAAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTATA
Marmoset GGTGCTTATATTTTTCTGCATCAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTTTA
Squirrel_monkey -----
Tarsier AGTTCTTAAATTTTTCCATATCAAAATCTCCAAATTTCCATTATGTTATTTCTGTTGATA
Bushbaby GTTT-CTCAAATTTTTCTATCAAAATCTCCAGTTTCCATTCTGTTATGTTCTGTTGTA
Lemur AGTTCTTAGATTTTTCCACATCAAAATCTCCAGTTTCCATTGTTGTTATTTCTGTTGTTG

Human AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Chimpanzee AGATTATTTCAAAGTAATTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Gorilla AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Orangutan AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Gibbon AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Baboon AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---C-TTTTTCAAAGGGAGGCAGACTG
Macaque AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Rhesus AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---T-TTTTTCAAAGGGAGGCAGACTG
Marmoset AGATTATTTCAAAGTAGTTTTTTCTTTATTGTTG---G-TTTTTCAAAGGGAGGCAGACTG
Squirrel_monkey -----
Tarsier AGATTATTTCAAAGTAGTTATTTATTTTACTGTTGTTGTTCAAA-----GGGA
Bushbaby AGATTATTTCAAAGTAGGTTTTTTGTTGTTGTTGTTG---TTTTTCAAAGGAAGCAGGTTG
Lemur AGATTATTTCAAAGTAGTTTTTTTCTTTTAAATTTGTTGTTTTTCAAAGGGAGGCAGACTG

Human ACCAGTCGTGTTGGGGTTATTTTCAAAATGCTAGTTCCCTTCTGTATACAAATTCACACA
Chimpanzee ACCAGTCGTGTTGGGGTTATTTTCAAAATGCTAGTTCCCTTCTGTATACAAATTCACACA
Gorilla ACCAGTCGTGTTGGGGTTATTTTCAAAATGCTAGTTCCCTTCTGTATACAAATTCACACA
Orangutan ACCAGTCGTGTTGGGGTTATTTTCAAAATGCTAGTTCCCTTCTGTATACAAATTCACACA

Gibbon ACCAGTCGTGTTGGGGTCATTTACAAATGCTAGTTCCT-TCTGTATACAAATTCACACA
Baboon ACCAGTTGTGTTGGGGTTATTTACAAATGCTAGTTCCTTCTGTATACAAATTCACACA
Macaque ACCAGTTGTGTTGGGGTTATTTACAAATGCTAGTTCCTTCTGTATACAAATTCACACA
Rhesus ACCAGTTGTGTTGGGGTTATTTACAAATGCTAGTTCCTTCTGTATACAAATTCACACA
Marmoset ACTAGTCGTGCTGGGGTTATTTACAAAGCTAGTTCCTTCTGTATACAAATTCACACA
Squirrel_monkey -----
Tarsier GATAGTGGTGTGGGGTTATTTACAAATGCCAGTTCCTTCTGTATACACATTCACACA
Bushbaby ACCAGTGGTGTGGGGTTATTTACAAATGCTGGTTCCTTCTGCACACACATTCACACA
Lemur ACCAGTTGTGTTGGAGTTATTTACAAATGCTAGTTCCTTCTGTATACACATTCACACA

Human CGCACCCATATTCATACAAAT----GCTGGCCTTGGGTAATAA-AAATAAGGTTGCCAAA
Chimpanzee CGCACCCATATTCATACAAAT----GCTGGCCTTAGGTAATAA-AAATAAGGTTGCCAAA
Gorilla CGCACCCATATTCATACAAAT----GCTGGCCTTGGGTAATAA-AAATAAGGTTGCCAAA
Orangutan CGCACCCATATTCATACAAAT----GCTGGCCTTAGGTAATAA-AAATAAGGTTGCCAAG
Gibbon TGCACCCATATTCATACAAAT----GCTGGCCTTAGGTAATAAATAAAGGTTGCCAAG
Baboon GGCACCCGTATTCATACAAAT----GCTGGCCTTAGGTAATAA-AAATAAGGTTGCCAAG
Macaque GGCACCCGTATTCATACAAAT----GCTGGCCTTAGGTAATAA-AAATAAGGTTGCCAAG
Rhesus GGCACCCGTATTCATACAAAT----GCTGGCCTTAGGTAATAA-AAATAAGGTTGCCAAG
Marmoset AGCACCCATATTCACACAAAA----GCTGGCCTTAGGTAAG--AAAATAAGGTTGCCAAG
Squirrel_monkey -----
Tarsier CGCTTCTATGCACACACATACACACTGACCTTAGGTA--GAAGATAAAATGGCCAAG
Bushbaby TGCACCTACATACTCAGCAC----ACTGGCCAGGGAAGCAGACA--AAGTACAAG
Lemur TGCACCTACATA----TACTCACGCACTGGCCCTAGATA--GAAGACAAAGTTGTCAAG

Human CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACCACCTCCCT
Chimpanzee CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACCACCTCCCT
Gorilla CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACCACCTCCCT
Orangutan CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACCACCTCCCT
Gibbon CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACC-----
Baboon CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGATCACCACCTCCCT
Macaque CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGATCACCACCTCCCT
Rhesus CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGATCACCACCTCCCT
Marmoset CATTTGAAGTCTTCAGACCATTCTTTCTTTGTTCTCCTTTGGGGAGCACCACCTCCCT
Squirrel_monkey -----
Tarsier AATTTGAAGCTTCAGACCATTCTTTCTTTCTCCTTTTGGGAACATTGCCTCCTT
Bushbaby TATTTGAAATCTCAGACCATTCTTCC--TTTCTCTTCTCAGGAACAGGACTTCCCT
Lemur TATTTGAAATCTCAGACCATTCT----TTTCTCCTGTTTTGGGGAGCATCGGCTCCCT

Human TCAATTATTCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Chimpanzee TCAATTATTCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Gorilla TCAATTATTCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Orangutan TCAATTATTCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Gibbon -----ACCTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Baboon TCAATTATTCTGCATCCTCCTTTCTCCTTACAAAGAGCCTGGAATCAGTCAC
Macaque TCAATTATTCTGCATCCTCCTTTCTCCTTACAAAGAGCCTGGAATCAGTCAC
Rhesus TCAATTATTCTGCATCCTCCTTTCTCCTTACAAAGAGCCTGGAATCAGTCAC
Marmoset TCAATTATTCTGCATCCTGTATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC
Squirrel_monkey -----
Tarsier TCAATGATCCTGCATCCTGCCTTCTCCTCCTTACAAAGAGCCTGGTGTAGTCAC
Bushbaby TCAATTATCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTGTAGTCAC
Lemur TCAATTATTCTGCATCCTGCATTTCTCCTTACAAAGAGCCTGGTATCAGTCAC

Human AGCTCCTGGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCAAGATTTGGTAGC
Chimpanzee AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGATTTGGTAGC
Gorilla AGCTCCTGGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGATTTGGTAGC
Orangutan AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGATTTGGTAGC
Gibbon AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACACATAGATTTGGTAGC
Baboon AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGACTTGGTAGC
Macaque AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGACTTGGTAGC
Rhesus AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACGCATAGACTTGGTAGC
Marmoset AGCTCCTGCACTCCTGA-GTTACATGGCCTACTTCTGAGGCACACATAGACTTGGTAGC
Squirrel_monkey -----
Tarsier AGTCCCCATGCTCCTGAGTTACAATGGCCTACTTC-----
Bushbaby ACTGCCCTGCTTCTGAG-TTACAGTGGCCTAGTTCCGAGGCATGCACAGACT-----
Lemur AGCTCCTCCTCTG--AGTTACAGTGGCCTGATTTGAGGCATGCATATACTTGGTAGC

Human AAAGCAAAGGGAAGGGAAGTGGCAGACCTGTCTCTCAGCTGCCAGCTGCAATCTTTCTCG
Chimpanzee AAAGCAAAGGGAAGGGAAGTGGCAGACCTGTCTCTCAGCTGCCAGCTGCAATCTTTCTCA
Gorilla AAAGCAAAGGGAAGGGAAGTGGCAGACCTGTCTCTCAGCTGCCAGCTGCAATCTTTCTCG
Orangutan AAAGCAAAGGGAAGGGAAGTGGCAGACCTGTCTCTCAGCTGCAATCTTTCTCG
Gibbon AAAGCAAAGGGAAGGGAAGTGGCAGACCTGTCTCTCAGCTGCCAGCTGCAATCTTTCTCG
Baboon AAAGCAAAGGGAAGGGAAGCAGACCTGT--CTCAGCTGCCAGCTGCAATCTTTCTCG
Macaque AAAGCAAAGGGAAGGGAAGCAGACCTGT--CTCAGCTGCCAGCTGCAATCTTTCTCA

Rhesus	AAAGCAAAGGGAAGGAAAGCGACAGACCTGT--CTCAGCTGCCAGCTGCAATCTTTCTCA
Marmoset	AAAGCGAAGGGAAGAAAATCGGCAGACCTGTCTCTCAGCTGGTAGCTGCAATCTTTCTGG
Squirrel_monkey	-----
Tarsier	-----CTCAATGGGCGGTTGCAACCTTTCTGG
Bushbaby	-----CGGTAGCAGACTGGCCACTCAGCTGGCAGCTGTAATCTTCCAG
Lemur	AAAGC--AAAAGGAAGCGGCAGACTTGCCCTCAGCTGGCAGCGGCCACAATCTTTCTGG
Human	CACACCAGTGCCTCTCCTTCTTACAAGTTACGTCTGTCCGGTAGACGGACTGGCCCAACA
Chimpanzee	CACACCAGTGCCTCTCCTTCTTACAAGTTACGTCTGTCCGGTAGACGGACTGGCCAGCA
Gorilla	CACACCAGTGCCTCTCCTTCTTACAAGTTACGTCTGTCCGGTAGACGGACTGGCCCAACA
Orangutan	CACACCAGTGCCTCTCCTTCTTACAAGTTACGTCTGTCCGGTAGACGGACTGGCCCAACA
Gibbon	CACACCAGTGCCTCTCCTTCTTACAAGTTACGTCTGTCCGGTAGACGGACTGGCCCAACA
Baboon	CACACCAGTGCCTCTCCTTCTTACAAGTTACATCCTGTCTCAGTAGACGGACTGGCCCAACA
Macaque	CACACCAGTGCCTCTCCTTCTTACAAGTTACATCCTGTCTCAGTAGACGGACTGGCCCAACA
Rhesus	CACACCAGTGCCTCTCCTTCTTACAAGTTACATCCTGTCTCAGTAGACGGACTGGCCCAACA
Marmoset	CACACCAGTGCCTCTCCTTCTTACAAGTTACATCCTGTCTCTAGACAGACTGGCCCAACA
Squirrel_monkey	-----
Tarsier	CATGCCAGTGCCTCTCTTTCTTACAAGTTACATCCTGCCTGAGACAGACAGGTTTC--AAC
Bushbaby	CACAGCAGCGGTTCTCTCTTACAAGTTACATCCTGTCTGTAGACAGACGGCCCAACA
Lemur	CACACCAGTGCCTCTCCTTCTTACAAGTTACATCCTGTCTGTGAGATAGACTGGCCCAACA
Human	ACAAGGTTATATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Chimpanzee	ACAAGGTTATATCTATTGAGGTTAAACTTGCCCAAACACTGTTGTTGTTGGAGCAGAGAGG
Gorilla	ACAAGGTTATATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Orangutan	ACAAGGTTGTATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Gibbon	ACAAGGTTGTATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Baboon	ACAAAATTTGTATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Macaque	ACAAAATTTGTATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Rhesus	ACAAAATTTGTATCTATTGAGGTTAAACTTGCCCAAACAGTGTGTTGTTGGAGCAGAGAGG
Marmoset	ACAAGGTTGTATCTATTGAGGTTAAACTTGCCCAAACAGGTTGTTGTTGGAGCAGAGAGG
Squirrel_monkey	-----
Tarsier	AACAAGGTTTAGCTATTGAGGTTGAACCTCTCCCAAAGGCTGTTTATTGGGGCAGAGGGG
Bushbaby	ACAAGGTTGTATCTATTGAGGTTAAACTTCCCAAAGGGGTTGTTGTTGGAGCAGAGAGG
Lemur	ACAAGGTTGTATCTATTGAGGTTAAACTTCCCAAAGGGTGTGTTGTTGGAGCAGATGGG
Human	CAGAAAGCGTACA-----AAATAGGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Chimpanzee	CCGAAAGCGTACA-----AAATAGG-AGGTGAGTTGTCGAAAGAGTTAAAAATCCAGCC
Gorilla	CAGAAAGCGTACA-----AAATAGGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Orangutan	CAGAAAGGGTCCA-----AAATAGGAAGGTGAGTCTCAAATAGTTAAAAATCCAGCC
Gibbon	CAGAAAGCATA-----AAATAAGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Baboon	AAGAAAGGGTACA-----AAATAGGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Macaque	AAGAAAGGGTACA-----AAATAGGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Rhesus	AAGAAAGGGTACA-----AAATAGGAAGGTGAGTCTCGAAAGAGTTAAAAATCCAGCC
Marmoset	CAGAAAGAGTGAA-----AAACAGGAAGGTGAGTCTCAAAGAGTTAAAAATCCACCC
Squirrel_monkey	-----
Tarsier	CAGAATGGAGGCTATGTGTGAAACAGGAAAGTGGGTTCTCAAAGAGTTAAAAATACAGTC
Bushbaby	AGAAGTGTGTG-----AAATAGGAAGGTGGTGTCTCCGAGGAGCTGAAATCCAGCC
Lemur	CAGAAGGAAGGCTGCCTGTGAAATAGGAAGGTAGATCTCAAAGAGTTAAAAATCCAGTC
Human	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Chimpanzee	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Gorilla	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Orangutan	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Gibbon	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Baboon	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Macaque	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Rhesus	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Marmoset	TTAAAAATTC--ACATATGCTCAGTCAGGTAATCATCATGAATTTTT-----
Squirrel_monkey	-----
Tarsier	TGTCAAAATTCATATAATCTCAGTCAAGTAAATCCCGTGGTTTTTTAAGCTGATATTT
Bushbaby	TGTCAAAATTC--TACCATCAGTC--AGGA-AGACCTCGTGATATTT-----
Lemur	TGTCAGAATTCATATAATGCTCAGTCAAGTAAATCCCGTGGTTTTTTAAGCTGATATTT
Human	-TACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Chimpanzee	-TACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Gorilla	-TACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Orangutan	-TACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Gibbon	-TACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Baboon	TTACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTACAAAAGAAAAACCTT
Macaque	TTACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Rhesus	TTACTGATATTTTGTCTAGAAAGATAGTGATATTAACATATCTAGAAAAGAAAAACCTT
Marmoset	TAAGTATATTTTGTCTAGAAAGATAATGATATTAACGTATTTCTAGAAAAGAAAAAGCTT
Squirrel_monkey	-----

Tarsier T TACTGATATGTTGTTCTAGAAAGATAGTAATCTTAGCATATTTGGAAAACTT-----
Bushbaby T AATCGATATTTTGTCTGGGAGACAGTAATATTAGCGTATTCTAGAAAGGAAAAATGATT
Lemur A TTTTG-----TTTTCAGATAGTAATGTTTGATATTTCTAGAAAGCAA-----

Human G ATTCAGTAAAAACCTCCTTAAGTGAGAGATACATGATTAATGTTGATGACAAAAATATA
Chimpanzee G ATTCAGTAAAAACCTCATTAAGTGAGAGATACATGATTAATGTTGATGACAAAAATATA
Gorilla G ATTCAGTAAAAACCTCATTAAGTGAGAGATACATGATTAATGTTGATGACAAAAATATA
Orangutan G ATTCAGTAAAAACCTCATTAAGTGAGAGATACATGATTAATGTTGATGACAAAAATATA
Gibbon G ATTCAGTAAAAACCTCATTAAGTGAGAGATACATGATTAATGTTGATGACAAAAATATA
Baboon G ATTCAGTAAACAACCTCACTAAGTGAGAGATACGTGATTAATGTTGATGACAAAAATATA
Macaque G ATTCAGTAAACAACCTCACTAAGTGAGAGATACGTGATTAATGTTGATGACAAAAATATA
Rhesus G ATTCAGTAAACAACCTCACT----GAGAGATACGTGATTAATGTTGATGACAAAAATATA
Marmoset G ATTCAGCAA--AACCTCATTAAGTGGGAGATATATGACTAAATGTTGATAACAAAAACATT
Squirrel_monkey -----
Tarsier T AATTCAGTAGAACATCACTAAGTAAGAGATATATGATTAAGATGTTGACAAAAATG
Bushbaby A CTTCAGTAAAAACA--TTGTTGTTGAGAAATGCATGATTAATGTTGGTAGCAAAAAGTT
Lemur A ACTTTTAGTAAAAACATTACTGAGTGAGAGATACATGACTAAATGTTTGT--CAAAAAATTA

Human T TTT-TGAGGTTATC-----TCAAAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Chimpanzee T TTT-TGAGGTTATC-----TCAAAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Gorilla T TTT-TGAGGTTATC-----TCAAAGTTTAATGAAGTTCTACATATATAGAATGATTGA
Orangutan T TTT-TGAGGTTATC-----TCAAAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Gibbon T TTT-TGAGGTTATC-----TCAAAGTTTAATGAAGTTCTAAATATACAGAATGATTGA
Baboon T TTT-TGAGGTTATCTCA-----AAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Macaque T TTT-TGAGGTTATCTCA-----AAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Rhesus T TTT-TGAGGTTATCTCA-----AAGTTTAATGAAGTTCTAAATATATAGAATGATTGA
Marmoset T TTT-TGAGGTTATTTCA--TATACAAGTTTAATGAAGTTCTAAATATATAGAATGACTAA
Squirrel_monkey -----
Tarsier - TTTTCGAGGTTATCTCATATACTTAAGTTTAATGAAGTCTAAATATCTAGAATTTATG
Bushbaby A TTTTGTGTTGTTCTAATAGACTTAAATGAAATGAAGTGCTAAATATAGAAA--TGACCAC
Lemur - TTTTGAGGTTATCTAATACACTTAAGTTTAATGAAGTTCTAAATATATAAAATGATTGC

Human A TATACACT--TTAAGAAAACATGCAATAGGTGACTGGATAGAGCTGAAAAAGAGGCATCC
Chimpanzee A TATACACT--TTAAGAAAACATGCAATAGGTGACTGGATAGAGCTGAAAAAGAGGCATCC
Gorilla A TATACACT--TTAAGAAAACATGCAATAGGTGACTGGATAGAGCTGAAAAAGAGGCATCC
Orangutan A TATACACT--TTAAGAAAACATGCAATAGGTGACTGGATAGAGCTGAAAAAGAGGCATCC
Gibbon A TATACACT--TTAAGAAAACATGCAATAGGTGACTGGATAGTGTCTGAAAAAGAGGCATCC
Baboon A TATACACTTTTAAAGAAAACATGCAATAGGAGACTAGATAGAGCTGAAAAAGAGGCATCC
Macaque A TATACACTTTTAAAGAAAACATGCAATAGGAGACTAGATAGAGCTGAAAAAGAGGCATCC
Rhesus A TATACACTTTTAAAGAAAACATGCAATAGGAGACTAGATAGAGCTGAAAAAGAGGCATCC
Marmoset A TATACATT--TTAAGAAAACATGAAAATAGGTGACTGGGTAGAGCTGAAAAAGAGGCATCC
Squirrel_monkey A TATACATA--TTAAGAAAACATGAAAATAGGTGACTGGGTAGAGCTGAAAAAGAAGCATCC
Tarsier A GACACACT--TTAATAAAACAT-----
Bushbaby A TATACACT--TTGAGTAAACATGAAACAGA--TCATGAGTG--GAGTTGAAGAGGCAGCC
Lemur C TAAGCACT--TTAAGTAAACATGAAAATAGGTGACTGGGTGGAGCTGAAAAAGAGCCAC

Human A TATATTTTAGATT-----GTTC---ATTTCTTGATATTTGATTTTATGTATGAGAGTG
Chimpanzee A TATATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Gorilla A TATATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Orangutan A TATATTTTAGATT-----GCTC---ATTTCTTTTATATTTGATTTTATGTATGAGAGTG
Gibbon A TATATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Baboon A TAGATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Macaque A TAGATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Rhesus A TAGATTTTAGATT-----GTTC---ATTTCTTATATATTTGATTTTATGTATGAGAGTG
Marmoset A AATATTTTAGATT-----GTTC---ATTTCTTATATACTTGATTTTATGCATGAGAGTT
Squirrel_monkey A AATATTTTAGATT-----GTTC---ATTTCTTATACTTCAATTTTATGTATGAAAGTG
Tarsier A GAT-----ATTTTGAACATTTTCTTT--ACATGTTTGTCTTTACATATGAGACTG
Bushbaby A AGTGTTTTAGATT-----GTTCATTTTCTATATATACATTTGATTTTATGTGTAACGTG
Lemur A AATATTAATATTTTAGATTGTTTCTTTTATATATATTTGATTTTATGTGTGAGAGTG

Human T TTTGTTATCCTGATTTAGAATGAAATGACTTTGAGTGGTATTTGTGGATTCAATT--TTTT
Chimpanzee T TTTGTTATCCTGATTCAGAATGAAATGACTTTGAGTGGTATTTGTGGAATCAATTGTTTT
Gorilla T TTTGTTATCCTGATTTAGAATGAAATGGCTTTGAGTGGTATTTGTGGAATCAATT--TTTT
Orangutan T TTTGTTATCCTGATTCAGAATGAAATGACTTTGAGTGGTATTTGTGGAATCAATT--TTTT
Gibbon T TTTGTTATCCTGATTCAGAATGAAATGACTTTGAGTGGTATTTGTGGAATCAATT--TTTT
Baboon T TTTGTTATCCTGATTCAGACTGAAATGACTTTGGATGGTATTTGTGGAATCACTTTTTTTT
Macaque T TTTGTTATCCTGATTCAGACTGAAACGACTTTGAATGGTATTTGTGGAATCACTTTTTTTT
Rhesus T TTTGTTATCCTGATTCAGACTGAAACGACTTTGAATGGTATTTGTGGAATCACTTTTTTTT
Marmoset T TTTGTCATCCTGATTCAGAATGAAATGACTTTGAATGGTATTTGTGGAATCACT--TGTT
Squirrel_monkey T TTTGTCATCCTGATTCAGAATGAAATGACTTTGATGGTATTTGTGGAATCACT--TGTT
Tarsier T TTTGTCACCTGA---TTCAGAAAATGACTTTAATGGTACTTGTAGCATCGTT--TTTT
Bushbaby T TTTGTCATGCTTATTTCTGAATAAAATGACTTTAATGGTCTTGTAGAAATTTACT--TTCT
Lemur T TTTGTCATGCTGATTCGAATGAAATGACTTTAATGGTACTTGTAGAAATTTACT--TTTT

Human TCTAGCCTGAGGAATAATCTATTGTAGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Chimpanzee TCTAGCCTGAGGAATAATCTATTGTGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Gorilla TCTAGCCTGAGGAATAATCTATTGTAGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Orangutan TCTAGCCTGAGGAATAATCTATTGTGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Gibbon TCTAGCCTGAGGAATAATCTATTGTGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Baboon TCTAGCCTGAGGAATAATTTATTGTGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Macaque TCTAGCCTGAGGAATAATTTATTGTGAAAAGTTGAAAAGTTGCTCTAATTCGCTAATAT
Rhesus CCTAGCCTGAGGAATAATTTATTGTGAAAAGTTGAAAAGTTGCTCTCATTACATATAT
Marmoset TCTAGCCTGAGGAATAAGTTTATTGTGAAAAGTTGAAAAGTTGCTCTTATTGCTAATAT
Squirrel_monkey TCTAGCCTGAGAAAATAATTTATTGTGAAAAGTTGAAAAGTTGCTCTGATTTGCTAATAT
Tarsier TCTCGCCCGAGAAAATAATTTACTGTAGAAGAGTTGAAAAGTTGCTATAATTCGCTAATAT
Bushbaby TTTAGCCTGAGGAATAATTTATTGTGAAAAGTTGAAAAGTTGCTCCAATTTGCTAACAT
Lemur TCTAGCCCAAGGATTAATTTATTGTGAAAAGTTAAAAGTTACTTTACTTTGCTAATAT

Human TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAACTCGGATCC
Chimpanzee TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATCGGATCC
Gorilla TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATCGGATCC
Orangutan TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATCAGATCC
Gibbon TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATCAGATCC
Baboon TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATGGATCC
Macaque TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CCGAAAAATCGGATCC
Rhesus TTNNNNNNNNNNNNNNNNNNNNNNNNNNNNN-----NNNNNNNN
Marmoset TTCAAAGCATCATTTATTTTCTCAGGAAAGGA-----CTGAAAAATCAATTC
Squirrel_monkey TTCAAAGCATCATTAATTTTTCAGGAAAGGA-----CCGAAAAATCAGTTCC
Tarsier TTCAAAGCATCATTTATTTTGTACGAAATAAACAGAGAGAAGCAGAGAGATTAGTTCC
Bushbaby TTTAAAGCATCATTTATTTTACAGAAAAGGA-----CCGAAAGAATCAAATG
Lemur TGTGAAGCATCATTTATTTTCTCAGAGA-----AAGAACCAGAAAGATTAGTTCC

Human AAACCTAAAATGTCAATACTCATAGTTTAGCATTTTC-AAAAAGAATAACTACATGGAGTT
Chimpanzee AAACCTAAAATGTCAATACTCATAGTTTAGCACTTA-AAAAAGAATAACTACATGGAGAT
Gorilla AAACCTAAAATGTCAATACTCATAGTTTAGCATTTTC-AAAAAGAATAACTACATGGAGTT
Orangutan AAACCTAAAATAACAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTACATGGAGTT
Gibbon AAACCTAAAATATCAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTACATGGAGTT
Baboon AAACCTAAAATATCAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTATGTGGAGTT
Macaque AAACCTAAAATATCAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTATGTGGAGTT
Rhesus NNNNNNNNNNNNNNNNNNNNNNNNNNNNTAGTTTAGCATTTTA-AAAAAGAATAACTATGTGGAGTT
Marmoset AAAATTTAAAATATCAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTACATGGAGTT
Squirrel_monkey AAACCTAAAATATCAATACTCATAGTTTAGCATTTTA-AAAAAGAATAACTACATGGAGTT
Tarsier AAATTTAAAATGTCAACACTGGTGGTTTGGCATTCA-AAAAAGAGTAACTACATGGAGTT
Bushbaby TA-----AAACATCAACACAGGTACTTTAGTGATCAAAAATGAGTAAGTTACGTGCAGTT
Lemur AAATTTAAAATGTCAACACTAGTACTTTAGCATTTCA-AAAAAGAGTAACTACATGGAGTT

Human ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Chimpanzee ACCAGTGATACTTTTAAAATTTATATT-TTTCTATGTGTAC---TGTTTCAACAAAGCC
Gorilla ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Orangutan ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Gibbon ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Baboon ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Macaque ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Rhesus ACCAGTGATACTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTCAACAAAGTC
Marmoset ACCAGTGATATTTTTAAAATTTATATTTTGTCTATGTGTAC---TGTTTAAACAAAGTC
Squirrel_monkey ACCAGTGATATTTTTAAAATTTACATTTTGTCTATATGCAC---TGTTTAAACAAAGTC
Tarsier ACCAGTGATATTTTTAAAATTTATATCTTGTATGTGTACTGTTTGT-TTGCAAAATC
Bushbaby ACCAGTGATACTTAAGAATTTATCTTCTTGCATGTGTACAGTTTGT-TTGGCAAAGTC
Lemur ACCAGTTATACTTTTAAAATTTATATCTTGTCTATATGTATAGTTTTTT-TGGCCAAATC

Human ATGAGTATACCAAAGCGAGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Chimpanzee ATGAGTATACCAAAGCGAGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Gorilla ATGAGTATACCAAAGCGAGCTAACAGTCTTTATTCCAAAATGTTGCCCCAAAATAATTTTC
Orangutan ATGAGTATACCAAAGCGAGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Gibbon ATGAGTATACCAAAGCGAGCTAAGTCT--TCATTCCAAAATGTTGCCCCAAAATAATTTTC
Baboon ATGAGTATACCAAAGTGAGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Macaque ATGAGTATACCAAAGTGGGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Rhesus ATGAGTATACCAAAGTGGGCTAACAGTCTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Marmoset GTAAGTATACCAAAGTGGGCTAACAGT--CTTC-ATTCAAAATGTTGCCCCAAAATAATTTTC
Squirrel_monkey ATAAGTATACCAAAGTGGGCTAACAGC--CTTC-ATTCAAAATGTTGCCCCAAAATAATTTTC
Tarsier ATAAGTATACCAAAGTGAACGAACAGTGTTCATTCCAAAATGTTGCCCCAAAATAATTTTC
Bushbaby ATAAGTATACCAAAGGTAAAGCTAACAGCTTCATTCCAAAATGTTCCCTCAAATAATTTTC
Lemur TTAAGTATACCAAAGGTGAGCTAACAGTCTTCATTCCAAAATGTTCCCTCAAATAATTTTC

Human TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCTATGTTTGTATTG
Chimpanzee TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCTATGTTTGTATTG

Gorilla TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCATGTTTGTGTTTATTG
Orangutan TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCATGTTTGTGTTTATTG
Gibbon TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCATGTTTGTGTTTATTG
Baboon TGAACCACATGACAGATGTTTGATACAGATGACTAAATTTCTGTCATGTTTATTGATAC
Macaque TGAACCACATGACAGATGTTTGATACAGATGACTAAATTT-----
Rhesus TGAACCACATGACAGATGTTTGATACAGATGACTAAATTT-----
Marmoset TGAACCACATGACAGATGTTTGATACAGATAACTAAATTTTCTGTTATGTTTGTGTTTATAG
Squirrel_monkey TGAACCACATGACAGATGTTTGATACAGATAACTAAATTTT--GTTATGTTTGTGTTTATAG
Tarsier TGAACCACATGGCAGAAATTCGATACAGGTGACTAAATTTTATTATTATTATTGTTA
Bushbaby TGAACCACATGGCAGAAATTTGATACAGATGACTAAATTTGCTGTCAGATTTGGTTATGA
Lemur TGAACATAATGGCAGAAATCTGATACAGATGACTAAATTTGCTGTCATATTCCGGTATTA

Human TTAAT-----AGTAAAACCAACAGAGAGTGCTAGACT
Chimpanzee TTAAT-----AGTAAAACCAACAGAGAGTGCTAGACT
Gorilla TTAAT-----AGTAAAACCAACAGAGAGTGCTAGACT
Orangutan TTAAT-----AGTAAAACCAACAGAGAGTGCTAGACT
Gibbon TTAAT-----AGTAAAACCAAC-----AGTGCTAGACT
Baboon AGATGACTAAATTTCTGTCATGTTTATTGTTAATAGTAAAACCAACAGAGTGCTAGACT
Macaque -----CTTGTGTCATGTTTATTGTTAATAGTAAAGCCAACAGAGTGCTAGACT
Rhesus -----CTTGTGTCATGTTTATTGTTAATAGTAAAGCCAACAGAGTGCTAGACT
Marmoset TTAAT-----AGTAAAACCAACAGAGAGTGCTAGGCT
Squirrel_monkey TTAAT-----AGTAAAACCAACAGAGAGTGCTAGACG
Tarsier ATTGTAA-----AACCA--ACAAAGTGCTAGAC-
Bushbaby TTAATAGC-----AAAACCAACAGGGAATGCTAGACT
Lemur TTAATAGT-----AAAACCAACAGAGAAATGCTAGAC-

Human TTAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCAATATCATCTTA
Chimpanzee TTAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGTGATATCATCTTA
Gorilla TTAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCGATATCATCTTA
Orangutan TTAGACACTAATGTCCTTCAAAATATGGACTTACATGAAACTAGACAGCAATATCATCTTA
Gibbon TTAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCAATATCATCTTA
Baboon TCAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCGACATCATCTTA
Macaque TCAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCGACATCATCTTA
Rhesus TCAGACACTAATATCTTCAAAATATGGACTTACATGAAACTAGACAGCAACATCATCTTA
Marmoset CTAGACAAGCATATCTTAGAAATATAAACTTACGTGAAACTAGACAGAAATATCATCTCA
Squirrel_monkey TTAGACAACATATCTTAGAAATATAAACTTACATGAAACTAGACAGAAATATCATCTCA
Tarsier TTAGGAACTAATACATGAAATATGAGTTTACATGAAACCAGACAGAGATATCAATTTA
Bushbaby TTAGATGCTAA-----TACTATTATGAACTTGCACGAAACCATACAGATGTATCTTCTTA
Lemur TTTAGAACTAATACCT-TAAAATATGAACTTATGTGAAACCATAAGGAGATATCATCTTA

Human AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Chimpanzee AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Gorilla AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Orangutan AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Gibbon AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Baboon AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGTTGAAAGGAA
Macaque AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGTTGAAAGGAA
Rhesus AAGTACTTTTTCTCTTAAACAAACAAATCGAAAAAAGCAAAGATCAGAGTTGAAAGGAA
Marmoset AAGTACTTTTTCTCTTAAACGAA-----CGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Squirrel_monkey AAGTACTTTTTCTCTTAAACAAACAAACCGAAAAAAGCAAAGATCAGAGATGAAAGGAA
Tarsier AAGTACTTTTATCGTTT-AAACAAACAAATCAAAAACAAAGTCCAGAAAGGAAGGGGA
Bushbaby AAGAACTTTTTCTCTTGAACAAACAAACAGGGAAGCAAAGATCAGTTAAAGGGAA
Lemur AAGTACTTTTTCACTT-GAACAAACAAACAAAAAATCAAAGATCAGAGATGGTGGGAA

Human GAAAAGTATATCGAGTGACACCATGTGTGTCAGCCAGACACTGGGATAGATGCTTCATATAC
Chimpanzee GAAAAGTATATCGAGTGACACCATGTGTGTCAGCCAGACACTGGGATAGATGCTTCATATAC
Gorilla GAAAAGTATATCGAGTAAACCATGTGTGTCAGCCAGACACTGGGTTAGATGCTTCATATAC
Orangutan GAAAAGTATATCGAGTGACACCATGTGTGTCAGCCAGACACTGGGATAGATGCTTCATATAC
Gibbon GAAAAGTATATCGAGTGACACCATGTGTGTCAGCCAGACACTGGGATAGATGCTTCATATAC
Baboon GAAAAATACATTGAGTGACACCATATGGCAGCCAGACACTGGGATAGATGCTTCATATAC
Macaque GAAAAATACATTGAGTGACACCATATGGCAGCCAGACACTGAGGTAGATGCTTCATATAC
Rhesus GAAAAATACATTGAGTGACACCATATGGCAGCCAGACACTGAGGTAGATGCTTCATATAC
Marmoset GAAAAATATATTGAGCGACACTACATGTGCTAGCTAGACCTGGGATAGATGCTTTATATAC
Squirrel_monkey GAAAAATACATTGAGCGACACTACATGTGCTAGCCAGACACTGGGATAGATGCTTTATATAC
Tarsier GAAAACATATGCTGAGT--GCACTATAGCCAGCCAGACACTGGGATAGACGCTTCATATAA
Bushbaby TTCACATACGGTTAGTGACGCTCTATGCCAGCCAGGTAAGTGGGATAGACGCTTTACATAC
Lemur GAAACATACATTTAGTGATCTTATATGCTATCCAGACACTGGGATAGATACTTTACATAC

Human CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAATTGT
Chimpanzee CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAATTGT
Gorilla CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAATTGT
Orangutan CTTAGGTCATTTAACATTTATAGTTAAGTAGAAAATG-----TTTTAAAATTGT
Gibbon CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTTAAAGTTGT

Baboon CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAGTTGT
Macaque CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAGTTGT
Rhesus CTTAGGTCATTTAACGTTATAGTTAAGTAGAAAATG-----TTTTAAAGTTGT
Marmoset CTTAGGTCATTTAATGTTTTAGTTAAGTAGAAGATG-----TTTTAAAGTTGT
Squirrel_monkey CTTAGGTCATTTAATGTTTTAGTTAAGTAGAAGATG-----TTTTAAAGTTGT
Tarsier CTGAGGTCACCTAACATTA-----AGTGAAA----CAGGAAATGTTTCAAAGTTGT
Bushbaby CTTACATCATTGAGAAGCTGTGGTTAAATAAAGAGCTAAACAGAAAATGTGTCAAGGTTGT
Lemur CTTAGGTCATTTAACATTTATGGTTAAATAGCTAAA----CAGAAAATGTTTCAACTTGT

Human GGAGGTGTT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTGTTGACTCACCTGTTC
Chimpanzee GGAGGTGTT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Gorilla GGAGGTGTT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Orangutan GGAGGTGTTTTAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGATTACCTGTTTT
Gibbon GGAGGTGTT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Baboon GGAGGTATT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Macaque GGAGGTATT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Rhesus GGAGGTATT-TAACTAGTTTTTCATTTTCTAAGCCAGCACAGCTTTTGACTCACCTGTTC
Marmoset GAAGGTGTT-TAACTAATTTTTTCATTTTCTAAGTCAGTACAGCTTTTGACTCACCTGTTC
Squirrel_monkey GAAGGTGTT-TAACTAGTTTTTCATTTTCTAAGTCAGCACAGCTTTTGACTCACCTGTTC
Tarsier GGAGATGTC-CCACTAGTTTTTCATTTTCTAAGCCAGCACACACCACCTGACTCACAGGTTTC
Bushbaby GGAGG-----TGTTTAAATTTTTTCATCTTCTAAGTGAGCACAATCCTTGACTCACAGGTTTC
Lemur GGAGGTGTT-TAACTAGTTTTTCATTTTCTAAGGAGCATAACCCTTGATTACATGTTTC

Human ATAATGCAGAGATTATTTGTTCTGCCCTACGTTTCTGTTGCACAACATTTTCCCTCCTTT
Chimpanzee ATAATGCAGAGATTATTTGTTCTGCCCTACGTTTCTATTGTACAACATTTTCCCTCCTTT
Gorilla ATAATGCAGAGATTATTTGTTCTGCCCTACGTTTCTGTTGCACAACATTTTCCCTCCTTT
Orangutan ATAATGCAGAGATTATTTGTTCTGCCCTACGTTTCTGTTGCAC---ATTTTCTCCTTTT
Gibbon ATAACGCAGAGATTACTTGTCTGCCCTACGTTTCTGTTGCAC---ATTTTCTCCTTTT
Baboon ATAATGCAGAGATTATTTGTTCTGCCCTGCATTTCTGTTGCACAACATTTTCTCCTTTT
Macaque ATAATGCAGAGATTATTTGTTCTGCCCTGCGTTTCTGTTGCACAACATTTTCTCCTTTT
Rhesus ATAATGCAGAGATTATTTGTTCTGCCCTGCGTTTCTGTTGCACAACATTTTCTCCTTTT
Marmoset C-AATGCAAAAGATTATTTGTTCTACCCTATGTTTCTGTTGCACAACATTTTCTCCTTTT
Squirrel_monkey ACAATGCAAAAGATTATTTGTTCTACCCTATGTTTCTGTTGCACAACATTTTCTCCTTTT
Tarsier ATACTGCAGAGATCATTTGCACTACCCTTTGTTTCTGTTGCACAAGATCCTTCTCCTTTT
Bushbaby ATAATGTGAAGATTATTTGCTCTGCTCTG-----TGCTTTTCTCTTTTAT
Lemur ATCATGCAAAAGATTATTTGCTCTGCCCTATGTTTCTTGCACAAGATTTTCTGCTCTTTT

Human AAAAGTCATTTA-----TTGAATCATCATCTGTCTCAGGCTTGATACGGTATAGCCCTCG
Chimpanzee AAAAGTCATTTA-----TTGAATCATCACCTGTCTCAGGCTTGATACGGTATAGCCCTCG
Gorilla AAAAGTCATTTA-----TTGAATCATCATCTGTCTCAGGCTTGATACTGTATAGCCCTCG
Orangutan AAAAGTCATTTA-----TTGAATCATCATCTGTCTCAGGCTTGATACGGTATAGCCCTCG
Gibbon AAATGTCATTTA-----TTGAATCATCATCTGTCTCAGGCTTGATATGGTATAGCCCTCG
Baboon AAAAGACATTTA-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGCATAGCCCTCG
Macaque AAAAGACATTTA-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGCATAGCCCTCG
Rhesus AAAAGACATTTA-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGCATAGCCCTCG
Marmoset AAAAGTCATCTA-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGTATAGCCCTCA
Squirrel_monkey AAAAGTCATTTA-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGTATAGCCCTCA
Tarsier AATCAAGAAATCTTATTTTTGAATCATCATCTGTCTCAGGCTTGAGATGGTGTAGTCTCTG
Bushbaby AAATCTTGTTC-----TTGAATCATCATCTGCCCTCAGGCTTGATATGGTGTACTCTCA
Lemur ATAAGCCTTCCCTCTTGA---TTCATCATCTGCCCTCAGGCTGAATGTGGTGTAGTCTCTG

Human AAAGACTGGTTTAG-TACTTAAACCCACCTTTCAAATATTTCC-AGTGCAGGC---CAT
Chimpanzee AAAGACTGGTTTAG-TACTTCAACCAGCCTTTCAAATATTTCC-AGGGCAGGC---CAT
Gorilla AAAGACTGGTTTAG-TACTTCAACCCGCTTTCAAATATTTCC-AGTGCAGGC---CAT
Orangutan AAAGACTGGTTTAGTACTTCAACTCGCCTTTCAAATATTTCCAGTGCAGGC---CAT
Gibbon AAAGACTGGTT-TAGTACTTCAACTCGCCTTTCAAATATTTCCAG-TGCAGGC---CAT
Baboon AAAGACTGGTT-TAGTACTTCAACTCACCTTTCAAATATTTCCAG-TGCAGGC---CAT
Macaque AAAGACTGGTT-TAGTACTTCAACTCACCTTTCAAATATTTCCAG-TGCAGGC---CAT
Rhesus AAAGACTGGTT-TAGTACTTCAACTCACCTTTCAAATATTTCCAG-TGCAGGC---CAT
Marmoset AAAGACTGGTT-TCGTACTTCAAGTACGCTTTCAAATATTTCCAG-TGCAGGC---CT
Squirrel_monkey A-AGACTGGTT-TAGTACTTCAAGTACGCTTTCAAATATTTCCAG-TGCAGGC---CT
Tarsier CCAGACTGGT-TTAGTGCATCAACTCACCTTTCAAATATTTCCAGTGCAGGCCACTCAT
Bushbaby AGAGACTGCT-TTAGTACTTCAACTCACCTTTCAAATATTTCCAGTGCAGGCCACTCAT
Lemur AAAGACTGGT-TTAGAAGTCAACTCACCTTTCAAATATTTCCAGTGCAGGCCACTCAC

Human TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCC-CAGTCTACCAAGCAGGATCT
Chimpanzee TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCC-CAGTCTACCAAGCAGGATCT
Gorilla TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCC-CAGTCTACCAAGCAGGATCT
Orangutan TCAATGTTCAGGTACCTAATGAGTCATTTCTCTTCC-AGTCTANNNNNNNNNNNNN
Gibbon TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCCAGTCTACCAAGCAGGATCTC
Baboon TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCCAGTCTACCAAGCAGGATCTC
Macaque TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCCAGTCTACCAAGCAGGATCTC
Rhesus TCAGTGTTCAGGTACCTAATGAGTCATTTTCTTCTCCAGTCTACCAAGCAGGATCTC

Marmoset TCACTGTTCAGGTACCTAATGAGTCATTTTCTCTTCCCAGTCTACCAAGCAGGATCTC
Squirrel_monkey TCAGTGTTCAGGTACCTAATGAGTCATTTTCTCTTCCCAGTCTACCAAGCAGGATCTC
Tarsier TCAGTGTCCCAGGTGCCACTGAGTCATTTTCTCTTCCCAGTAAACTGAGCAGGATATC
Bushbaby TCAGTGTCCCAGGACCTAATGAGTCATTTTCTCTTCCAATTAATGAACAGGATATC
Lemur TCAGTATCCCAGGTACCTAATGAGTCATTTTCTCTTCCAATCTAGTGAACAGGGTATC

Human CAAAGCCTCCTTTATCTTTCTGGGTGTATACAGAG-----
Chimpanzee CAAAGCCTCCTTTATCTTTCTGGGTGTATACAGAG-----
Gorilla CAAAGCCTCCTTTATCTTTCTGGGTGTATACAGAG-----
Orangutan NNN
Gibbon AAAGCCTCCTTTATCTTTCTGGGTGTATA--CAGTCATTAAGCTCAAATATGTCCCTTGC
Baboon AAAGCCTCCTTTATCTTTCTGGGTGTACACAGAGTCATTAAGTCAAATATGTCCCTTGC
Macaque AAAGCCTCCTTTATCTTTCTGGGTGTATACAGAGTCATTAAGTCAAATATGTCCCTTGC
Rhesus AAAGCCTCCTTTATCTTTCTGGGTGTACACAGAGTCATTAAGTCAAATATGTCCCTTGC
Marmoset AAAGCCTCCTTTATCTTTCTGGGTGGATACAGAGTCATTAAGTCAAATATGTCCCTTGC
Squirrel_monkey AAAGCCTCCTTTATCTTTCTGGGTGGATACAGAGTCATTAAGTCAAATATGTCCCTTGC
Tarsier AAAGCCTCCTTTATCTTTCTGGGTGGATACAGAGTCATTAAGTCAAATATGCCCCTTGC
Bushbaby AAAGCCTCCTTTATCTTTCTGGGTGGTACCGAGTCATTAAGCTTGGCCAATAGACTTGA
Lemur AAACCCCTCCTTTATCTTTCTGGGTGGATACAGAGTCATTAAGTCAAATATGCCCCTTGC

Human -----
Chimpanzee -----
Gorilla -----
Orangutan NNN
Gibbon CAATAGACTT-GGGGGTTGGGT---TTAGT-TATTAAGTGGTGA-GTCTCCACCCAG-C
Baboon CAACAGACTTGAGGGTTGGGTTAGTATTAACTT---GGTTGAGTCTCCACCCAGCT
Macaque CAACAGACTTGAGGGTTGGGTTAGTATTAACTT---G-GTGAGTCTCCACCCAGCT
Rhesus CAACAGACTTGAGGGTTGGGTTAGTATTAACTT---G-GTGAGTCTCCACCCAGCT
Marmoset CAATAGACTT-GAGGATGGGC---TTAGT-TATTAAGTGGTGA-GTCTCCACCCAG-C
Squirrel_monkey CAATAGACTT-GAGGGTTGGGT---TTAGT-TATTAAGTGGTGA-GTCTCCACCCAG-C
Tarsier CAATAGACTTGAGAGCTGGGTTAGTATTAACTTGTGAGCCT-----CCA-CCAGC
Bushbaby GGGTTGGGTTACTTAT-----TAACTTGGTGAGCCTCC-G-CCAGC
Lemur CAATAGACTTGAGGGTTGGGTTAGTATTAACTTGGTGAGCCT-----CCG-CCAGC

Human -----
Chimpanzee -----
Gorilla -----
Orangutan NNN
Gibbon TAACTATTCT-AGGAAATTAT-----TTGGTGAGTCAGGCATCTTTGTATT
Baboon -AACTATTCTAGGAAA-----TCATTTGGTGAGTCAGGCATCTTTGTATT
Macaque -AACTATTCTAGGAAA-----TCATTTGGTGAGTCAGGCATCTTTGTATT
Rhesus -AACTATTCTAGGAAA-----TCATTTGGTGAGTCAGGCATCTTTGTATT
Marmoset TAACTATTCT-AGGAAATCAT-----CTGGTGAGTCAGGCATTTTGTATT
Squirrel_monkey TAACTATTCT-AGGAAATCAT-----TTGGTGAGTCAGGCATTTTGTATT
Tarsier TAACTATTCTAGGAAATA-----ATCTGGTGAGTCAGGTGTTTCATATT
Bushbaby TAACTATTCTAGGAAATA-----ATTTGGTGAGTCAGGTGTTTTCATATT
Lemur TAACTATTCTAGGAAATA-----ATTTGGTGAGTCAGGTGTTTTCATATT

Human -----
Chimpanzee -----
Gorilla -----
Orangutan NNCCTTTCAAAAATATTGTCAGTGCAGGCCATCAATGTTCCAGGTAATAAGTGCATT
Gibbon CACATCGCA-----
Baboon CACATTGCA-----
Macaque CACATTGCA-----
Rhesus CACATTGCA-----
Marmoset CACATTGCA-----
Squirrel_monkey CACATTGCA-----
Tarsier CATATTTTCAT-----
Bushbaby CATATTTTCAT-----
Lemur CAAGTTTCAT-----

Human -----T
Chimpanzee -----T
Gorilla -----T
Orangutan TCCTCTCCAGTCTACAAGCATCTCAAAGCCTCCTTTATCTTTCTGGGTGTATACAGAGT
Gibbon -----
Baboon -----
Macaque -----
Rhesus -----
Marmoset -----
Squirrel_monkey -----
Tarsier -----

Bushbaby -----
Lemur -----

Human CATTAAGCTCAAATATGTCCTTTGCCAATGGACTTGAGGGTTGGGTTAGTTATTAACTT
Chimpanzee AATTAAGCTCAAATATGA-----GACTTGAGGGTTGGGTTAGTTATTAACTT
Gorilla CATTAAGCTCAAATATGTCCTTTGCCAATGGACTTGAGGGTTGGGTTAGTTATTAACTT
Orangutan CATTAAGCTCAAATATGTCCTTTGCCAATAGACTTCAGGGTTGGGTTAGTTATTAACTT
Gibbon -----
Baboon -----
Macaque -----
Rhesus -----
Marmoset -----
Squirrel_monkey -----
Tarsier -----
Bushbaby -----
Lemur -----

Human GGTGAGTCTCCACCCAGCTAACTATTCTAGGAAATCATTGGTGAGTCAGGCATTCTTGT
Chimpanzee GCTGAGTCTCCACCCAGCTAACTATTCTAGGAAATCATTGGTGAGTCAGGCATTCTTGT
Gorilla GGTGAGTCTCCACCCAGCTAACTATTCTAGGAAATCATTGGTGAGTCAGGCATTCTTGT
Orangutan GGTGAGTCTCCACCCAGCTAACTATTCTAGGAAATCATTGGTGAGTCAGGCATTCTTGT
Gibbon -----
Baboon -----
Macaque -----
Rhesus -----
Marmoset -----
Squirrel_monkey -----
Tarsier -----
Bushbaby -----
Lemur -----

Human ATTCACATTGCA
Chimpanzee ATTCACATTGCA
Gorilla ATTCACATTGCA
Orangutan ATTCACATTGCA
Gibbon -----
Baboon -----
Macaque -----
Rhesus -----
Marmoset -----
Squirrel_monkey -----
Tarsier -----
Bushbaby -----
Lemur -----