

Figure S2

Human	<i>Homo Sapiens</i>	NM_001130861.1
Chimpanzee	<i>Pan troglodytes</i>	XM_009437790.2
Gorilla	<i>Gorilla gorilla gorilla</i>	XM_019018367.1

Human	-----
Chimpanzee	CTGGGGGCTGGGGTGCCAGGGACACCATTGCCACTGGTGGGAGGGCAGGGCACAGCCCCT
Gorilla	-----

Human	-----GTCTCTCCTGTCTGAAGGCCAGAGCAGGCTGCTAGGCCTGGGGCCAC
Chimpanzee	CCGTGTCCCTTTTTTCTCTCCTGTCTGAAGGCCAGAGCAGGCTGCTAGGCCTGGGGCCAC
Gorilla	-----

Human	CACTGCCCTGGGTGCTACACCCAGTGTGCTGGGTCACTGGGAACCTTCTGAAGTGGTGT
Chimpanzee	CACTGCCCTGGG-TGTACACCCAGTGTGCTGGGTCACTGGGAACCTTCTGAAGTGGTGT
Gorilla	-----

Human	CACCTGAACTGGGCCCCAAGGATGGGGTGCGGGCAGTACCGCAGGAAGAGGAGCAGCCC
Chimpanzee	CACCTGAACTGGGCCCCAAGGATGGGGTGCGGGCAGTACCGCAGGAAGAGGAGCAGCCC
Gorilla	-----

Human	CTGTGAAGATTGAGAGGTCTGGGAAGCCCCTGCGGCTTGGGAGAGTGGGGGTGCCAGGC
Chimpanzee	CTGTGAAGATTGAGAGGTCTGGGAAGCCCCTGCGGCTTGGGAGAGTGGGGGTGCCAGGC
Gorilla	-----

Human	AGGGGGAAAGCCCCTGTGCCACCGCTTTTTGCCAGAGACTCAGGCTCCAGAGAGGCAGTG
Chimpanzee	AGGGGGAAAGCCCCTGTGCCACCGCTTTTTGCCAGAGACTCAGGCTCCAGAGAGGCAGTG
Gorilla	-----

Human	AGTGGCATGGGGGGTGAAGGCTGGGGCCCTGGGCCTGACCTCCACACGCCTGCCTGGCCTC
Chimpanzee	AGTGGCATGGGGGGTGAAGGCTGGGGCCCTGGGCCTGACCTCCACACGCCTGCCTGGCCTC
Gorilla	-----

Human	TCTGTTTGCCATGGGATGAGAGAGACAGTGTGGGACTCAGAGCGGGGCTGGAGAGTGAG
Chimpanzee	TCTGTTTGCCATGGGATGAGAGAGACAGTGTGGGACTCAGAGCGGGGCTGGAGAGTGAG
Gorilla	-----

Human	AGTGCGAGAAAGGGCCTGGGTGGGGCTTGGACCCCGGGGCGGGCTTTCTGGAGAGCCCC
Chimpanzee	AGTGCAAGAAAGGGCCTGGGTGGGGCTTGGACCCCGGGGCGGGCTTTCTGGAGAGCCCC
Gorilla	-----

Human	CTACGAGGGCCTCTACGGCGGTGACGGGGTGGGGGGCTTCTGCAAACCTTGGTCAGGGAA
Chimpanzee	CTACGAGGGCCTCTACGGCGGTGATGGGGTGGGGGGCTTCTGCAAACCTTGGTCAGGGAA
Gorilla	-----

Human	GTGGAGCTGGCTCGAGTGGAAGAGACCACCCGGCTCAGTCGGGGATGTGGGAGTGGACTG
Chimpanzee	GTGGAGCTGGCTCGAGTGGAAGAGACCACCCGGCTCAGTCGGGGATGTGGGAGTGGACTG
Gorilla	TCGCCACTGGTGGGAGGGCAGGGCACAG-----

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Human	GGTGGTGCAGACTGGGGGTCGAGCGCCTTCTGAAGTGACGGGGCCGGGACGCGCAGGGAG
Chimpanzee	GGTGGTGCAGGCTGGGGGTCGAGCGCCTTCTGAAGTGACGGGGCCGGGACATGCAGGGAG
Gorilla	-----CCCCTCCGTGTCCCTTTGTCTCTCCTGTCTGAAGGCCAGAGCAGGCTGCTAG

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Human GCGGCCCAAGA-AGCGCGCCCTAGGCCAGCCAGAATGCGCTCGGCCGCGACTAGGACAA
Chimpanzee GCGGCCCAAGA-AGCGCGCCCTAGGCCAGCCAGAATGCGCTCGGCCGCGAGTAGGACAA
Gorilla GCCTGGGGCCACCACTGCCCTGGGTGTACACCCAGTGTGCTGGGTCACTGGGAACCT--
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Human CGGCGGGTGGGGCTGGGGGCGGCTGCCGGGCGGGGAGCGGTCCCGCGCCCTCAGCTACCC
Chimpanzee CGGCGGGTGGGGCTGGGGGCGGCTGCCGGGCGGGGAGCGGTCCCGCGCCCTCAGCTACCC
Gorilla CCTGAAGTGGTGTACCTGAACTGGGCCCCCAAGGATGGGCTGCGGGCAGTACCGCAGGA
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Human CTCAAGAGCCGTTGTTTTCCCTAACTTCAGCTGCCAGAGGCTCTGTGATTGGCTGCGGCAC
Chimpanzee CTCAAGAGCCGTTGTTTTCCCTAACTTCAGCTGCCAGAGGCTCTGTGATTGGCTGCGGGAC
Gorilla AGACGAGCAGCCCCTGTGAAGACTGAGAGCTGCCAGAGGCTCTGTGATTGGCTTCGGGAC
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Human GATGACCCGCGCACGGATTGGCTGCTTCGGGCGGGGGGCGGGCCCGGGGGACAGAATC
Chimpanzee GATGACCCGCGCACGGATTGGCTGCTTCGGGCGGGGGGCGGGCCCGGGGGACAGAATC
Gorilla GACGACCCGCGCACGGATTGGCTGCTTCGGGCGGGGGGCGGGCCCGGGGGACAGAACC
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Human CGCCCCGAACCTTCAAAGAGGGTACCCCCCGGCAGGAGCTGGCAGACC CAGGAGGTGCG
Chimpanzee CGCCCCGAACCTTCAAAGAGGGTACCCCCCGGCAGGAGCTGGCAGACC TAGGAGGTGCG
Gorilla CGCCCCGAACCTTCAAAGAGGGTACCCCCCGGCAGCAGCTGGCAGACC TAGGAGGTGCG
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Human ACAGACCCGCGGGGCAAACGGACTGGGGCCAAGAGCCGGGAGCGCGGGCGCAAAGGCACC
Chimpanzee ACAGACCCGCGGGGCAAACGGACTGGGGCCAAGAGCCAGGAGCGCGGGCGCAAAGGCACC
Gorilla ACAGACCCGCGGGGCAAACGGACTGGGGCCAAGAGCCGGGAGCGCGGGCGCAAAGGCACC
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Human AGGGCCCCAGGGCGCCGCGCAGCACGGCCTTGGGGGTTCTGCGGGCCTTCGGGTGCG
Chimpanzee AGGGCCCCAGGGCGCCGCGCAGCACGGCCTTGGGGGTTCTGCGGGCCTTCGGGTGCG
Gorilla AGGGCCCCAGGGCGCCGCGCAGCACGGCCTTGGGGGTTCTGCGGGCCTTCGGGTGCG

Human CGTCTCGCCTCTAGCCATGGGGTCCGCAGCGTTGGAGATCCTGGGCCTGGTGTGTGCCT
Chimpanzee CGTCTCGCCTCTAGCCATGGGGTCCGCAGCGTTGGAGATCCTGGGCCTGGTGTGTGCCT
Gorilla CGTCTCGCCTCTAGCCATGGGGTCCGCAGCGTTGGAGATCCTGGGCCTGGTGTGTGCCT

Human GGTGGGCTGGGGGGGTCTGATCCTGGCGTGCGGGCTGCCCATGTGGCAGGTGACCGCCTT
Chimpanzee GGTGGGCTGGGGGGGTCTGATCCTGGCGTGCGGGCTGCCCATGTGGCAGGTGACCGCCTT
Gorilla GGTGGGCTGGGGGGGTCTGATCCTGGCGTGCGGGCTGCCCATGTGGCAGGTGACCGCCTT

Human CCTGGACCACAACATCGTGACGGCGCAGACCACCTGGAAGGGGCTGTGGATGTCTGCGT
Chimpanzee CCTGGACCACAACATCGTGACGGCGCAGACCACCTGGAAGGGGCTGTGGATGTCTGCGT
Gorilla CCTGGACCACAACATCGTGACGGCGCAGACCACCTGGAAGGGGCTGTGGATGTCTGCGT

Human GGTGCAGAGCACGGGCGACATGCAGTGCAAAGTGTACGACTCGGTGCTGGCTCTGAGCAC
Chimpanzee GGTGCAGAGCACGGGCGACATGCAGTGCAAAGTGTACGACTCGGTGCTGGCTCTGAGCAC
Gorilla GGTGCAGAGCACAGGGCGACATGCAGTGCAAAGTGTACGACTCGGTGCTGGCTCTGAGCAC

Human CGAGGTGCAGGCGGGCGGGCGCTCACCGTGAGCGCCGTGCTGCTGGCGTTCGTTGCGCT
Chimpanzee CGAGGTGCAGGCGGGCGGGCGCTCACCGTGAGCGCCGTGCTGCTGGCGTTCGTTGCGCT
Gorilla CGAGGTGCAGGCGGGCGGGCGCTCACCGTGAGCGCCGTGCTGCTGGCGTTCGTTGCGCT

Human CTTCTGTGACCCTGGCGGGCGCGCAGTGCACCACCTGCGTGGCCCCGGGCCCGGCCAAGGC
Chimpanzee CTTCTGTGACCCTGGCGGGCGCGCAGTGCACCACCTGCGTGGCCCCGGGCCCGGCCAAGGC
Gorilla CTTCTGTGACCCTGGCGGGCGCGCAGTGCACCACCTGCGTGGCCCCGGGCCCGGCCAAGGC

Human GCGTGTGGCCCTCACGGGAGGCGTGCTCTACCTGTTTTGCGGGCTGCTGGCGCTCGTGCC
Chimpanzee GCGTGTGGCCCTCACGGGAGGCGTGCTCTACCTGTTTTGCGGGCTGCTGGCGCTCGTGCC
Gorilla GCGTGTGGCCCTCACGGGAGGCGTGCTCTACCTGTTTTGCGGGCTGCTGGCGCTCGTGCC

Human ACTCTGCTGGTTTCGCCAACATTGTCTCGTCCGCGAGTTTTACGACCCGTCTGTGCCCGTGTG
Chimpanzee ACTCTGCTGGTTTCGCCAACATTGTCTCGTCCGCGAGTTCTACGACCCGTCTGTGCCCGTGTG
Gorilla ACTCTGCTGGTTTCGCCAACATTGTCTCGTCCGCGAGTTCTACGACCCGTCTGTGCCCGTGTG

Human GCAGAAGTACGAGCTGGGCGCAGCGCTGTACATCGGCTGGGCGGCCACCGCGCTGCTCAT
Chimpanzee GCAGAAGTACGAGCTGGGCGCAGCGCTGTACATCGGCTGGGCGGCCACCGCGCTGCTCAT
Gorilla GCAGAAGTACGAGCTGGGCGCAGCGCTGTACATCGGCTGGGCGGCCACCGCGCTGCTCAT

Human GGTAGGCGGCTGCCTCTTGTGCTGCGGGCGCCTGGGTCTGCACCGGCCGTCCCGACCTCAG
Chimpanzee GGTAGGCGGCTGCCTCTTGTGCTGCGGGCGCCTGGGTCTGCACCGGCCGTCCCGACCTCAG
Gorilla GGTAGGCGGCTGCCTCTTGTGCTGCGGGCGCCTGGGTCTGCACCGGCCGTCCCGACCTCAG

Human CTTCCCCGTGAAGTACTCAGCGCCGCGGGCGCCACGGCCACCGGCGACTACGACAAGAA
Chimpanzee CTTCCCCGTGAAGTACTCAGCGCCGCGGGCGCCACGGCCACCGGCGACTACGACAAGAA
Gorilla CTTCCCCGTGAAGTACTCAGCGCCGCGGGCGCCACGGCCACCGGCGACTACGACAAGAA

Human GAACTACGTCTGAGGGCGCTGGGCACGGCCGGGCCCTCCTGCCAGCCACGCCTGCGAGG
Chimpanzee GAACTACGTCTGAGGGCGCTGGGCACGGCCGGGCCCTCCTGCCAGCCACGCCTGCGAGG
Gorilla GAACTACGTCTGAGGGCGCTGGGCACGGCCGGGCCCTCCTGCCAGCCACGCCTGCGAGG

Human CGTTGGATAAGCCTGGGGAGCCCCGCATGGACCGCGGCTTCCGCCGGGTAGCGCGGGCGG
Chimpanzee CGTTGGATAAGCCTGGGGAGCCCCGCATGGACCGCGGCTTCCGCCGGGTAGCGCGGGCGG
Gorilla CGTTGGATAAGCCTGGGGAGCCCCGCATGGACCGCGGCTTCCGCCGGGTAGCGCGGGCGG

Human CAGGCTCCTCGGAACGTCCGGCTCTGCGCCCCGACGCGGCTCCTGGATCCGCTCCTGCCT
Chimpanzee CAGGCTCCTCGGAACGTCCGGCTCTGCGCCCCGACGCGGCTCCTGGATCCGCTCCTGCCT
Gorilla CAGGCTCCTCGGAACGCCCGGCTCTGCGCCCCGACGCGGCTCCTGGATCCGCTCCTGCCT

Human GCGCCCGCAGCTGACCTTCTCCTGCCACTAGCCCGGCCCTGCCCTTAACAGACGGAATGA
Chimpanzee GCGCCCGCAGCTGGCCTTCTCCTGCCACTAGCCCGGCCCTGCCCTTAACAGACGGAATGA
Gorilla GCGCCCGCAGCTGGACTTCTCCTGCCACTAGCCCGGCCCTGCCCTTAACAGACGGAATGA
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Human A--GTTTCCTTTTCTGTGCGCGGCGCTGTTTCCATAGGCAGAGCGGGTGT CAGACTGAGG
Chimpanzee ACAGTTTCCTTTTCTGTGCGCGGCGCTGTTTCCATAGGCAGAGCGGGTGT CAGACTGAGG
Gorilla ACAGTTTCCTTTTCTGTGCGCGGCGCTGTTTCCATAGGCAGAGCGGGTGT CAGACTGAGG
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Human ATTTTCGCTTCCCCTCCAAGACGCTGGGGGTCTTGGCTGCTGCCTTACTTCCCAGAGGCTC
Chimpanzee ATTTTCGCTTCCCCTCCAAGACGCTGGGGGTCTTGGCTGCTGCCTTACTTCCCAGAGGCTC
Gorilla ATTTTCGCTTCCCCTCCAAGACGCTGGGGGTCTTGGCTGCTGCCTTACTTCCCAGAGGCTC

Human CTGCTGACTTCGGAGGGGCGGATGCAGAGCCCAGGGCCCCCAC-CGGAAGATGTGTACAG
Chimpanzee CTGCTGACTTCGGAGGGGCGGATGCAGAGCCCAGGGCCCCCACC GGAGAGATGTGTACAG
Gorilla CTGCTGACTTCGGAGGGGCGGATGCAGAGCCCAGGGCCCCCACC GGAGAGATGTGTACAG
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Human CTGGTCTTTACTCCATCGGCAGGGCCCCGAGCCCAGGGACCAGTGACTTGGCCTGGACCTC
Chimpanzee CTGGTCTTTACTCCATCGGCAGGGCCCCGAGCCCAGGGACCAGTGACTTGGCCTGGACCTC
Gorilla CTGGTCTTTACTCCATCGGCAGGGCCCCGAGCCCAGGGACCAGTGACTTGGCCTGGACCTC

Human -CCGGTCTCACTCCAGCATCTCCCCAGGCAAGGCTTGTGGGCACCGGAGCTTGAGAGAGG
Chimpanzee -CCGGTCTCACTCCAGCATCTCCCCAGGCAAGGCTTGTGGGCACCGGAGCTTGAGAGAGG
Gorilla CCGGTCTCACTCCAGCATCTCCCCAGGCAAGGCTTGTGGGCACCGGAGCTTGAGAGAGG

Human GCGGGAGTGGGAAGGCTAAGAATCTGCTTAGTAAATGGTTTGA ACTCTCTCCAAAAA
Chimpanzee GCGGGAGTGGGAAGGCTAAGAATCTGCTTAGTAAATGGTTTGA ACTCTC-----
Gorilla GCGGGAGTGGGAAGGCTAAGAATCTGCTTAGTAAATGGTTTGA ACTCTC-----

Human AAAAAAAAAA
Chimpanzee -----
Gorilla -----