

**A**

Human	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Human	--TACATGAGGCCTGGGCCTC-TGCCTTCCCAAGCTGTGCCTTCTGGACCAGCTACTGAA	491	
Chimpanzee	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Chimpanzee	--TACATGAGGCCTGGGCCTC-TGCCTTCCCAAGCTGTGCCTTCTGGACCAGCTACTGAA	491	
Monkey	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Monkey	CTGTGTTGAGGCCTGGGCCTC-TGTAATCCCAAGCTGTGTGTTCTGGACCAGCTACTGAA	505	
Rat	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Rat	-TTTGCCCATCTCTGGGCTAAATGCATTCTCAATGTCTAAACGCTTAAA--AGATGTCTATC	306	
Mouse	TGGCCTCTGTGCTCCAGTTACTAAAAGACTAAGGGGCATCTGTGTCTGATGTCATGACAG	60	Mouse	-TTTACCAATTCTGGGCTAAATGCATTCTTTATGTCTAACTCTTTAA--AGATGCGAGC	523	
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Human	CATCCTCTGTGTCGTGATGGTCTGTGAATGGTGTGAGGTTGGGAGTCAGGAGACAAGACAGC	100	Human	TTATTAATC---TCACTTAGCAAAAGTGACGGATGAGCAGTAAGTAAGTAAAGTGTGGGGA	548	
Chimpanzee	CATCCTCTGTGTCGTGATGGTCTGTGAATGGTGTGAGGTTGGGAGTCAGGAGACAAGACAGC	100	Chimpanzee	TTATTAATCACTCTCACTTAGCAAAAGTGACTGATGAGCAGTAAGTA---AGTGTGGGGA	547	
Monkey	CATCCCGTGTGTCGTGATGGTCTGTGAATGGTGTGAGGTTGGGAGTCAGGAGACAAGATGGC	100	Monkey	T---TAATC---TCACATAGCGAAAGTGACTGATGAGCAGTAAGT-----GTGGGGA	551	
Rat	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Rat	ATTAAGACAG-TCTCCAAGCCAAAGCCATG-----GTGGGGA	336	
Mouse	TATACGAAGGCTGAAGAAGTGGCTTGGCTGGTGGCAGGAGTCAGGGGACAAGCTGGA	120	Mouse	ATTAAGACAG-TCTCCATGCCAAA-----GTGGGGA	547	
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Human	GCAGAGAGGGCTGGTTAGCCGGAAAAGCCCTCGGCCTTGGCAAATGGAAGAACTTTGAGTG	160	Human	TTTAAACTTGAGGGTTTCCCTCTGACTAGCCTCTCTTACAGGAATTTGAAATATTTAAA	608	
Chimpanzee	GCAGAGAGGGCTGGTTAGCCGGAAAAGCCCTCGGCCTTGGCAAATGGAAGAACTTTGAGTG	160	Chimpanzee	TTTAAACTTGAGGGTTTCCCTCTGACTAGCCTCTCTTACAGGAATTTGAAATATTTAAA	607	
Monkey	GCAGAGAGGGCTGGTTAGCCGGAAAAGCTTCAGGCTTGGCAAATGGAAGAACTTTGAGTG	160	Monkey	TTTAAACTTGAGGGTTTCCCTCTGACTAGCCTCTCTTACAGGAATTTGAAATATTTAAA	611	
Rat	-----TGTCCTGCATGGAGCTGGTGAATTACTAAAAGAACATGG	40	Rat	-----GTGGGGA	336	
Mouse	GTAGAGGGAGG-GGCTGGTCAAGCTTGGGCTCAGCAAATGGGAAGAAGCAGCCTTGAACAG	179	Mouse	-----GTGGGGA	336	
				-----GTGGGGA	336	
Human	AGAGTTCAAGTCTGCAGTCTCTGTCTCACAGACATCTGAAAAGTGAATGGCCAAAGCTGGT	220	Human	TGCAAAATTTACAAGTGCAGATGACGTATGTGCCTTGAAGTGAATATTTGGCTTTAAGAAT	668	
Chimpanzee	AGAGTTCAAGTCTGCAGTCTCTGTCTCACAGACATCTGAAAAGTGAATGGCCAAAGCTGGT	220	Chimpanzee	TGCAAAATTTACAAGTGCAG-----GTGGGGA	627	
Monkey	AGAGTTCAAGTCTGCAGTCTCTGTCTCACAGACATCTGAAAAGTGAATGGCCAAAGCTGGT	220	Monkey	TGCAAAATTTACAAGTGCAG-----GTGGGGA	629	
Rat	-----ACAGTCAAC-TACCTATGCCATCC---ATCTAAGTCTTAGGGCAGAAC	44	Rat	-----GTGGGGA	336	
Mouse	CTCAGGAGGGAGAGAGGCGAC-TACCTGTGCCGTCC---AGTTAGGTTCTTGGGCAAGT	235	Mouse	-----GTGGGGA	336	
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Human	TAGTAGATGAGGCTGGACTGAGGAGGGGTAGGCTGCAT---CCACAGAGAGGATCCAG	276	Human	GATTCTTATACTCTGAAGGTGAGAATAATTTGTGGGCAGGTATCAACATTTGGGGAAGAGA	728	
Chimpanzee	TAGTAGATGAGGCTGGACTGAGGAGGGGTAGGCTGCAT---CCACATAGAGGATCCAG	276	Chimpanzee	-----GTGGGGA	336	
Monkey	TAGTAGATGAGGCTGGACTGAGGAGGGGTAGGCTGCAT---CCACATAGAGGATCCAG	276	Monkey	-----GTGGGGA	336	
Rat	TCAGACGTCAGGCCAGACCAGGATCAGTAAC-TGTA-----CAGGAAATTAAG	93	Rat	-----GTGGGGA	336	
Mouse	TAGACATCAGGCCAGACCAGGATTTGGTAAGC-TATAGGAGGGCCAGACGGGAATGAAG	294	Mouse	-----GTGGGGA	336	
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Human	GC---CAAGGCACTGGCTGTCA--GTGGCAGAGTTT-GGCTGTGA CCTT--TGCCCTA	327	Human	TTTCATGTCTAACTAACTAACTTTATACATGATTTTATAGGAAGCTATTGCCATAAATCAGC	788	
Chimpanzee	GC---CAAGGCACTGGCTGTCA--GTGGCAGAGTTT-GGCTGTGA CCTT--TGCCCTA	327	Chimpanzee	-----GTGGGGA	336	
Monkey	GC---CAAGGCACTGGCTGTCA--GTGGCAGAGTTT-GGCTGTGA CCTT--TGCCCTA	327	Monkey	-----GTGGGGA	336	
Rat	TAGTTGTGATGACTTAGCTGTCACCGAGGCAGAAAG--GACAAAAC-----GGATG	142	Rat	-----GTGGGGA	336	
Mouse	TAGTTGTAATGACTAACCTATCACTAGGCCAAAGGCCAAGCAAGCACTGCACTGAGGCCA	354	Mouse	-----GTGGGGA	336	
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Human	ACACGAGAACTCGTTTGAAGGGGGCA-GCGTAGCATGTCTG-ATTTGCCACCTGGATGA	385	Human	GTCAACATGCAGTAAAGGTTGTCTTCAACTGAAAAAAAAAAAAAAAAAAAAAAAAA	840	
Chimpanzee	ACACGAGAACTCGTTTGAAGGGGGCA-GCGTAGCATGTCTG-ATTTGCCACCTGGATGA	385	Chimpanzee	-----GTGGGGA	336	
Monkey	ACATAGGAACTCGTTTGAAGGGGGCA-GCGTAGCATGTCTG-ATTTGCCACCTGGATGA	386	Monkey	-----GTGGGGA	336	
Rat	ACACT-GAACTTTACTTGTCCAC--TATACTCTTCTCATTTTTCCCGACCACTTAGAAAT	198	Rat	-----GTGGGGA	336	
Mouse	ACACT-GAACTTTGCTTGTCTCAATAAGTTTGTCTCATTTTTCCCAACCCTTAGAAAT	413	Mouse	-----GTGGGGA	336	
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Human	AGGCAGACATCAACATGGGTCAGCAGC-----TTCAGTTACGGGAGTGGGAAAT-	434				
Chimpanzee	AGGCAGACATCAACATGGGTCAGCAGC-----TTCAGTTACGGGAGTGGGAAAT-	434				
Monkey	AGGCAGCTATCAGCATGGGTCAGCAGCAGGACAGCACATTCAAGTTACAGGAGTGGGAAAC	446				
Rat	GCAAAATAACCAAGTTAGTTTGAAGTGGC-----CAGTGTGGCTCAGCCAAAG-	249				
Mouse	GCAAAACAT-AGGTTTAAATTTGAAGCAGCA-----ACCAGCATGCTCATAGTCAAAA-	466				
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**B**