

	10	20	30	40	50	60
1 HUMAN	ATGGCTACTCTGATCTATGTTGATAAGGAAAAGGAGAACAGGCACCCGTTGGTGTGCT					60
2 CHIMPANZEE	ATGGCTACTCTGATCTATGTTGATAAGGAAAAGGAGAACAGGCACCCGTTGGTGTGCT					60
3 GORILLA	ATGGCTACTCTGATCTATGTTGATAAGGAAAAGGAGAACAGGCACCCGTTGGTGTGCT					60
4 COW	ATGTCTACTCTGATCTATGTTGATAAGGAAAAGGAGAACAGGCATCCATGTTGGTCTCT					60
5 MOUSE	ATGGCTACTCTATCTTTGTTGATAAGGATAAGGAGAACAGGCACCCGTTGGTGTGCT					60
6 RAT	ATGGCTACTCTGATCTTTGTTGATAAGGATAAGGAGAACAGGCACCCGTTGGTGTGCT					60
7Consensus	ATGGCTACTCTGATCTATGTTGATAAGGAAAAGGAGAACAGGCACCCGTTGGTGTGCT					
	70	80	90	100	110	120
1 HUMAN	AAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAGGCTTAGATGGGAGATCTCAA					120
2 CHIMPANZEE	AAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAGGCTTAGATGGGAGATCTCAA					120
3 GORILLA	AAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAGGCTTAGATGGGAGATCTCAA					120
4 COW	AAGGATGGGCTGAAGCTGGGGTCTTGGCCTTCAAGTCAAGGCTTAGATGGGAGATCCAG					120
5 MOUSE	AAGGATGGGCTGAAGCTGGGCCTAGT-----GTCAAGGCTTAGATGGGAAAATGTCAG					114
6 RAT	AAGGATGGGCTGAAGCTGGGGTCTGGT-----GTCAAGGCTTAGATGGGAAAATGTCAG					114
7Consensus	AAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAGGCTTAGATGGGAGATCTCAA					
	130	140	150	160	170	180
1 HUMAN	GTTTCAACACCCAGCTTTTGGCAAACGTTGATGCCCCACCAGCCTTACCTAAAGCTACT					180
2 CHIMPANZEE	GTTTCAACACCCAGCTTTTGGCAAACGTTGATGCCCCACCAGCCTTACCTAAAGCTACT					180
3 GORILLA	GTTTCAACACCCAGCTTTTGGCAAACGTTGATGCCCCACCAGCCTTACCTAAAGCTACT					180
4 COW	GTTTCAACACCCAGTGTGGCAAATGTTGATGCTCCGCCAGCTTACCAAATAATGCA					180
5 MOUSE	GTTTCAACAGCCTCGAGTCGGCAAAGTGTTCATGCTCC---AGCCGTGCCCTAAAGCCAGC					171
6 RAT	GTTTCAACAGCCAGAGTCGGCAAAGTGTTCGGTCCGCC---AGCCGTGCCCTAAAGCCAGC					171
7Consensus	GTTTCAACACCCAGCTTTTGGCAAACGTTGATGCCCCACCAGCCTTACCTAAAGCTACT					
	190	200	210	220	230	240
1 HUMAN	AGAAAAGCTTTGGGAACGTCAACAGAGCTACAGAAAATCTGTAAAGACCAAGGGACCC					240
2 CHIMPANZEE	AGAAAAGCTTTGGGAACGTCAACAGAGCTACAGAAAATCTGTAAAGACCAAGGGACCC					240
3 GORILLA	AGAAAAGCTTTGGGAACGTCAACAGAGCTACAGAAAATCTGTAAAGACCAAGGGACCC					240
4 COW	AGAAAAGCTTTGGGAACGTCAACAGAGCTACAGAAAATCTGTAAAGACCAATGGACCC					240
5 MOUSE	AGAAAAGCTTTGGGACAGTCAACAGAGTTCGGGAAAACCTTGAAGACTGGCAAACCC					231
6 RAT	AGAAAAGCTTTGGGAACGTCAACAGAGTTCCTGAAAAGCTTGAAGACTGTAAACCC					231
7Consensus	AGAAAAGCTTTGGGAACGTCAACAGAGCTACAGAAAATCTGTAAAGACCAAGGGACCC					
	250	260	270	280	290	300
1 HUMAN	CTCAAACAAAACAGCCAGGCTTTTCTGCCAAAAGATGACTGAGAAGACTGTTAAAGCA					300
2 CHIMPANZEE	CTCAAACAAAACAGCCAGGCTTTTCTGCCAAAAGATGACTGAGAAGACTGTTAAAGCA					300
3 GORILLA	CTCAAACAAAACAGCCAGGCTTTTCTGCCAAAAGATGACTGAGAAGACTGTTAAAGCA					300
4 COW	CTCAAACAAAACAGCAACTTCTTACCAAAGATGACTGAGAAGACTGTTAAAGCA					300
5 MOUSE	CTCAAACAAAACAGCCAGGCTTTGACTGGGAAAAGATCACCGAGAAGCTCTACTAAGACA					291
6 RAT	CTCAAACAAAACAGCCAGGCTTTGACTGGGAAAAGATCACCGAGAAGCTCTACTAAGACA					291
7Consensus	CTCAAACAAAACAGCCAGGCTTTTCTGCCAAAAGATGACTGAGAAGACTGTTAAAGCA					
	310	320	330	340	350	360
1 HUMAN	AAAAGCTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					360
2 CHIMPANZEE	AAAAGCTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					360
3 GORILLA	AAAAGCTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					360
4 COW	AAAAGTTCGGTTCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					360
5 MOUSE	CAAAGTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					351
6 RAT	CAAAGCTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					351
7Consensus	AAAAGCTCTGTTCCCTGCTCAGATGATGCTTACAGAAAATAGAAAATTCCTTTCCCTTC					
	370	380	390	400	410	420
1 HUMAN	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTGGCCACTCCCC					420
2 CHIMPANZEE	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTGGCCACTCCCC					420
3 GORILLA	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTGGCCACTCCCC					420
4 COW	AATCCTTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTGGCCACTCCCC					420
5 MOUSE	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTCTCACTTTCCCC					411
6 RAT	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTCTCACTTTCCCC					411
7Consensus	AATCCTCTAGACTTTGAGATTTTGGACCTGCCCTGAGAGCACCAGATTTGGCCACTCCCC					
	430	440	450	460	470	480
1 HUMAN	TTGATGGAGTGCCCTCTCATGATCTTGTACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG					480
2 CHIMPANZEE	TTGATGGAGTGCCCTCTCATGATCTTGTACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG					480
3 GORILLA	TTGATGGAGTGCCCTCTCATGATCTTGTACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG					480
4 COW	TTGATGGAGTGCCCTCTCATGATCTTGTATGAGGAGAGAGAGCTTGAGCAGCTGTTACAC					480
5 MOUSE	TTGATGGGCTGCCCTCTCATGATCTTGAATGAAAGAGAGAGGGGCTTGAGAAGCTGCTGCAT					471
6 RAT	TTGATGGAGTGCCCTCTCATGATCTTGAATGAAAGAGAGAGGGGCTTGAGAAGCTGCTGCAC					471
7Consensus	TTGATGGAGTGCCCTCTCATGATCTTGTACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG					
	490	500	510	520	530	540
1 HUMAN	TTGGCCCCCTTCACTGTGAAGATGCCCTTCCACCATGGGAATCCAAATCTGTTGCAG					540
2 CHIMPANZEE	TTGGCCCCCTTCACTGTGAAGATGCCCTTCCACCATGGGAATCCAAATCTGTTGCAG					540
3 GORILLA	TTGGCCCCCTTCACTGTGAAGATGCCCTTCCACCATGGGAATCCAAATCTGTTGCAG					540
4 COW	TTGGCCCCCTTTCGCCCTGTGAAGATGCCCTTCTGCTGTGGGATCTAAATCTGTTGCAG					540
5 MOUSE	TTGGCCCCCTTAGCCCTGTGAAGACCCCTTCTATCATGGGAATCTGTGTAAG-----					525
6 RAT	TTGGCCCCCTTTCGCCCTGTGAGAAAGCCCTTCTACCGTGGGAATCTGATGCTGTGCC					531
7Consensus	TTGGCCCCCTTCACTGTGAAGATGCCCTTCCACCATGGGAATCCAAATCTGTTGCAG					
	550	560	570	580	590	600
1 HUMAN	TCTCCTTCAAGCATTCTGTGCAACCTGGATGTTGAATGGCCACTGTTTGTCTGTACATA					600
2 CHIMPANZEE	TCTCCTTCAAGCATTCTGTGCAACCTGGATGTTGAATGGCCACTGTTTGTCTGTACATA					600
3 GORILLA	TCTCCTTCAAGCATTCTGTGCAACCTGGATGTTGAATGGCCACTGTTTGTCTGTACATA					600
4 COW	TCTCCTTCAAGCATTCTGTGCAACCTGCTGATGTTGAATGGCCACTGTTTGTCTGTACTTA					600
5 MOUSE	-----GGAG-----TCCGTC--AAACTGGGCTGTAAAGCAACTTGTGCAC-ATGA-					567
6 RAT	TCTCCTTCCAGCGCCCTCTCCGCTCTGGATGTTGAATGGCCACTGTTTGTCTGTACATA					591
7Consensus	TCTCCTTCAAGCATTCTGTGCAACCTGGATGTTGAATGGCCACTGTTTGTCTGTACATA					
	610	620	630	640	650	660
1 HUMAN	GATATTTAA					
2 CHIMPANZEE	GATATTTAA					
3 GORILLA	GATATTTAA					
4 COW	GATATTTAA					
5 MOUSE	-----					
6 RAT	GATATTTAA					
7Consensus	GATATTTAA					