

Figure S1

A

	GTCACATGATTGGCA - AGAACCAATT - - - - GAGATGGGCTGT - - - - - GGAAAGGGGAAC	Human
	GTCACGTGATTGGCA - AGAGCCAATG - - - - GCGGTGGGCTGT - - - - - GGAAAGGGGAAC	Mouse
	GTCACATGGTTGGCA - AGAACCAATT - - - - AAGA TGGGCTGT - - - - - GGAAAGGGGAAC	Dog
	GTCACATGATTGGCA - AGCACCAATT - - - - AAGATGGGCTGT - - - - - GGAAAGAGGAAC	Opossum
	GTCACATGATGGGTC - GGGGCCAATG - - - - GAGTTGGGCTGT - - - - - GGAAAGGGGAAC	Platypus
	GTCACGTGACTCAAA - GGGACCAATG - - - - GAGGCAGGTTAT - - - - - GGAAAGGGGAAC	Chicken
	GTCACGTGATGCAAA - CCAGCCAATA - - - - AAGGGAGACTGCCAAAAAAAAAGGGGAAC	Frog
+1	GCCACGTGATTACTGGAGCCCAATT - - - - GGATCGAGCTGC - - - - - CAAAGGGGAAC	<i>C.milli</i>
	GACACACACACACAAAACACACACTTTTAAAGCCATGCGAGAA TTCAAAGAAAGCAAAC T	Fugu
	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAA - ACTTCTTTGGG - CCTCATA	Human
	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAA - ACTTCTTTGGA - CCTCATA	Mouse
	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAA - ACTTCTTTGGG - CCTCATA	Dog
	AGTTA - AATTTGT - - - - - AATTTGGTGTGTGAAACACTTCTTTGGGGCCTCATA	Opossum
	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAACACTTCTTTGGGGCCTCATA	Platypus
	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAACACTTCTTTGGG - CCTCATA	Chicken
	AGTCAAAATTTTCTCAT - TATTTGGTGTGTGCAAGACTTGTTTGGG - CCTCAGA	Frog
+50	AGTTA - AATTTGT - - - - - AATTTGGGTTGTGTGAAA - - - CTCTTTGGGCCCTCATA	<i>C.milli</i>
	TGCAAGATCGGGCAGACGACCTCTCTTTGGTGTGCTGAACACTGAGATTCA TCCTGCA	Fugu
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	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTAGCCTGGCAGT - - - GTCAGAAGTC	Human
	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTAGCCTGGCAGT - - - GTCAGAAGTG	Mouse
	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTAGGC TGGCAGT - - - GTCAGAAGTC	Dog
	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTAGCCTGGCAGT - - - CACACAAGAC	Opossum
	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTAGCCTGGCAGT - - - CACAGAAGAG	Platypus
	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTACAGAGGCAGT - - - CACACAAGAG	Chicken
	AGCAACCA - - - - CAGAACC - - - - - ACAAGCTGCGC - - - - - GCAGA - - - CACTCGAGAG	Frog
+97	AACAACCA - - - - CAGAACC - - - - - ACAAGTTGGGTGCG - AACAGT - - - CACACAACAG	<i>C.milli</i>
	GACAACAAGTGGCAACAGGGATTAGCGAACCACAGACAAAAACAAGACCTAAAAAGCA	Fugu
	TGAACCCAGCATAGTGGTCAGCAGGCAGGA - CGAATCAC - - - - - ACTGAATGCAAA -	Human
	TAAAGCCAGCACAGTGGTCAGCAGGCAGGA - CGAATCAC - - - - - ACTGAATGCAAA -	Mouse
	TGC GCCCGCATAGTGGTCAGCAAGCAGGA - CGAACCAC - - - - - ACTGACTGCAAA -	Dog
	TGGGTCCGGGATATTGGTCAGCAGGCAGGG - CAAATCAC - - - - - ACTGTCTGCAAA -	Opossum
	TGGGTCAAGGATA TCGGTACAGCGGCAGGG - CAAATCAT - - - - - ACTGAGTAGAAA -	Platypus
	CGGGTCCGGGATATTGGTCAGCAGGCAGGG - CAAATCGC - - - - - TTTGACTGCAAA -	Chicken
	TGGATCCGGGATA TTTGGTCAGCAAAAGGGGCGAA TCA TTTTCGTTGACTGAAAAAAA	Frog
+143	TGGGTCCGGGATA TTTGGTCAGCAAA TAGCAACTCATTTCTGATTTTAAACCAAGAGTG - -	<i>C.milli</i>
	ATGAAGGAAGATA - TGGTGAAGGAGAGAAAAAGAGCGGA - - - - - ACCAGAAAAGAG -	Fugu
	CCACA - GGGTTTCGCAGCGTG	Human
	CCACA - GGCTTTTCGCAGAGCG	Mouse
	CCACA - GGGTTTCGCAGAGTG	Dog
	CCACA - GAGTTTCGTAGAGCG	Opossum
	CCACA - GAGTTTCGCAGAGCG	Platypus
	CCACA - GAGTTTCGTAGAGTG	Chicken
	CCACAAGACTTTTCAGACATTG	Frog
+201	CCAAG - CGGCTTCGTAGAGTG	<i>C.milli</i>
	- CACTGAGCAACTGAAAAGTA	Fugu

B

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	TGCAATCCTGTGAGCTGAGGTTGGGT - TGACACTGGGAAGGCCTGGTCCCTC	AACCACAG	Human
	TTGCAATCCTGTGATGTGAGATTGGGT - TGACACTGGGAAGGCTGGTCCCTC	AACCACAG	Mouse
	TTGCAATCCTGTGAGCTGAGGTTGGGT - TGACACTGTGAAGGCCTGGTCCCTC	AACCACAG	Dog
+1	CTTCGGGCTCAGAACACTGGTTGAGC - TGACACTGTGCGGGCC TCACTTTG	AACCACAG	<i>C.milli</i>
	TTCAAAGCTCCCTGCAAACCTCAGCCACAACAATTTAATGGGCTTCTGCACG	GGTTTTAC	Fugu
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	AACCACAAGGCCAG - - - GCCCTT - GCCGCCCTCCAGGGCCCTGCGCGGGAGCT - - GGTTGG		Human
	AACCACAAGGCCAG - - - GCCCTC - GCCGCCCTCCAGGGCCCTGCG - AGGAGCT - - GGTTGG		Mouse
	AACCACAAGGCCAG - - - GCCCTCAGCCGCTTCAGGGCCCTGCGCGGGAGCT - - GGTTGG		Dog
+60	AACCACAAGTGTGGTGTGGTGCAGCCTACTTCTCAGGACTTGCACTGAGTCTCAGTGGG		<i>C.milli</i>
	C - CCAAGAGGAAGACGGAA TGCTTCCAAAAGTTGTGG - - - - - GCAACAAAAGTAAAAATTGA		Fugu
	CTCCTGGTGTCTCCCCACCCCT - GGCCGCCCTCGTACCCACCAGGCCTGGGCTCTGTCAA		Human
	TTCCCTGGTG - TCCCCACCCCTGGCCACCCCTGGCCCTGCCACAGCCTGGGCTCCGTGGA		Mouse
	CTCTTGGTCTCTCCCCACCCCTGGCCGCTCGCACCCACTGGAGCCCGGGCTCTGTTGG		Dog
+120	TTGCTAGATA TTTTTTTTTAAAAA AAGGCT - - - ACCCACCACCAACTGGACCTCGGCAC		<i>C.milli</i>
	GAGCGAAGATGGAAGGTCAGGAGGAGATTTCAGAGAAACAACGATCAAGTAAAGAGAA G		Fugu
	GGGTAA		Human
	GGGTGA		Mouse
	GGGTGA		Dog
+177	GCAAG		<i>C.milli</i>
	GCAAA G		Fugu