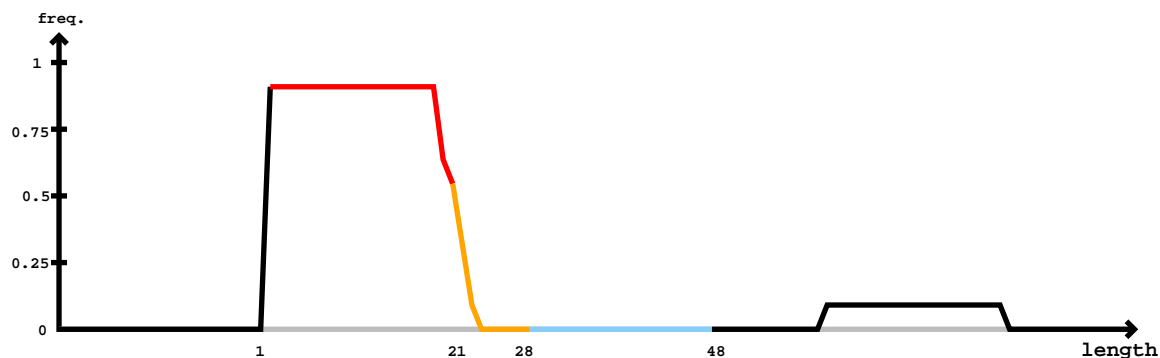


Diagram illustrating a DNA double helix structure. The top strand (coding strand) is labeled 5' to 3' and contains the sequence: U A G U G G A A A U U A A U G G U A A A A. The bottom strand (template strand) is labeled 3' to 5' and contains the sequence: A T C A T C C U U U A A U U A A C C A U U A. A red box highlights a mutation in the top strand, specifically a G to A transition at the 10th position, which changes the codon from UGA (stop) to UAA (stop).



Star

5'-	agcagagaaguaaacacaa <u>uaguggaaa</u> uu <u>aauagguaaaaa</u> uuuu <u>uacc</u> uu <u>aa</u> uu <u>uccacua</u> uuuguguuu <u>ucc</u> auaucucgagccgacacuuaggguccgcuaaga	-3'	exp		
	....(((.(.((((((((((((((((((((((((((((((((((...))))))))).....).).....)))))))).).....)))))).....)	reads	mm		sample
	.....uaguggaaa <u>uu</u> a <u>auaggua</u> aaa.....	1	0		s12
	.....uaguggaaa <u>uu</u> a <u>auaggua</u>	1	0		s13
	.....uaguggaaGu <u>uu</u> a <u>auaggua</u>	2	1		s13
	.....uaguggaaa <u>uu</u> a <u>auaggua</u> a.....	1	0		s19
	.....uaguggaaa <u>uu</u> a <u>auaggua</u> aaaUu.....	1	1		s19
	.....uaguggaaa <u>uu</u> a <u>auaggua</u> aaa.....	4	0		s02
	.....aucucgagccgacacuu <u>u</u>	1	1		s17