Mutations: The Effect on Phenotype Worksheet 2 Transcription and Translation

Transcribe each of the following two DNA sequences (nucleotides 142 to 171 of each PTC taste receptor sequence) into RNA. Then, use the provided amino acid table to translate the RNA into an amino acid sequence.

"TR"	DNA	GTC	GGT	GAC	TCG	TTG	TCA	СТА	ACA	CAC	GAC
	RNA										
	AA										

"NT"	DNA	GTC	CGT	GAC	TCG	TTG	TCA	СТА	ACA	CAC	GAC
	RNA										
	AA										

 $Transcribe\ each\ of\ the\ following\ DNA\ codons\ from\ each\ PTC\ taste\ receptor\ into\ RNA.\ Then, use\ the\ amino\ acid\ table\ to\ translate\ the\ RNA\ into\ an\ amino\ acid.$

Nucleotide position 785 Nucleotide position 886

"TR"	DNA	CGA		"TR"	DNA	CAG	
	RNA				RNA		
	AA				AA		

"NT"	DNA	CAA		"NT"	DNA	TAG	
	RNA				RNA		
	AA				AA		

How many	differences are	found in the amino	acid seguences	of "TR" a	nd "NT"?	
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