

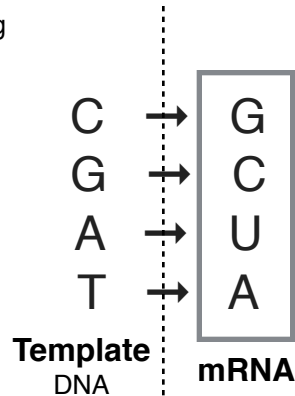
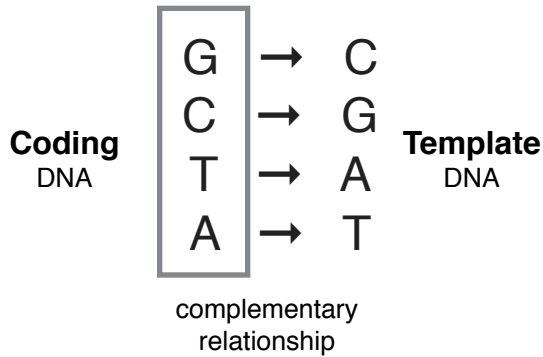
Genetic Code Summary

(study guide)



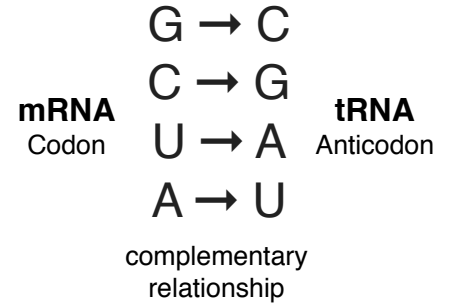
DNA

symbol mapping



RNA

symbol mapping



The DNA strand that contains the Gene is called the **Coding** strand.

mRNA copies from the opposite strand to the gene, the template strand.

mRNA Codon to Amino Acid Translation

	U		C		A		G	
U	UUU	PHE (F)	UCU	SER (S)	UAU	TYR (Y)	UGU	CYS (C)
	UUC		UCC		UAC		UGC	
	UUA	LEU (L)	UCA		UAA	STOP	UGA	STOP
	UUG		UCG		UAG		UGG	TRP (W)
C	CUU	LEU (L)	CCU	PRO (P)	CAU	HIS (H)	CGU	ARG (R)
	CUC		CCC		CAC		CGC	
	CUA		CCA		CAA	GLN (Q)	CGA	
	CUG		CCG		CAG		CGG	
A	AUU	ILE (I)	ACU	THR (T)	AAU	ASN (N)	AGU	SER (S)
	AUC		ACC		AAC		AGC	
	AUA		ACA		AAA	LYS (K)	AGA	ARG (R)
	AUG	MET (M)	ACG		AAG		AGG	
G	GUU	VAL (V)	GCU	ALA (A)	GAU	ASP (D)	GGU	GLY (G)
	GUC		GCC		GAC		GGC	
	GUA		GCA		GAA	GLU (E)	GGA	
	GUG		GCG		GAG		GGG	

To figure out the amino acid sequence convert to mRNA and lookup the mRNA Codon in the table which will be provided.