

## Decoding DNA

### Part 1: DNA Structure

Use the template DNA sequence to determine the complementary DNA sequence created during DNA replication.

iDNA	5' - GGC	TAC	TTA	AAG	CGC	CCT	ATA	ACT
cDNA	3' - GGC	ATG	AAT	TTC	CGG	GGA	TAT	TGA

### Part 2: Protein Synthesis

For each of the following sequences, use the Universal Genetic code to determine the amino acid sequence coded for by the template DNA strand. In some problems, you will need to use the information provided to determine the sequence of the template DNA strand. (NOTE: iDNA = template DNA; cDNA = complementary DNA)

#### 1. Basic Decoding:

iDNA	5' - TAC	TAA	CAC	GAT	GTA	TAT	GGT	ATG	AGC	ACT-3'
mRNA	AUG	AUU	GUG	CUA	CAU	AUA	CCA	UAC	UCG	UGA
AA	met	Ile	Val	Leu	His	Ile	Pro	Tyr	Ser	—
Letter	START	D	E	C	O	D	I	N	G	?

#### 2. Decoding with anti-codons:

cDNA	3' -	AGC	CCC	CCG	TGT	TAT	GTT	GGA	TAA-5'
iDNA	5' - TAC	TCG	GGG	GGC	ACA	ATA	CAA	CCT	ATT-3'
mRNA	AUG	AGC	CCC	CCG	UGU	UAU	GUU	GGA	UAA
tRNA	UAC	UCG	GGG	GGC	ACA	AUA	CAA	CCU	AUU
AA	Met	Ser	Pro	Pro	cys	Tyr	Val	Gly	—
Letter	START	W	H	I	T	N	E	Y	.

##### a. How is the cDNA similar to the mRNA?

The cDNA and the mRNA sequences are the same, except U (instead of T) is complementary to A in RNA.

##### b. What is tRNA's roll in protein synthesis?

Transfer RNA carries the correct amino acid to the ribosome to be added to the growing polypeptide chain.

#### 3. Which DNA strand?

iDNA	5' - TAC	AGG	CAC	AAC	CAA	TTT	AAT	AAG	GAG	GGA -or- GGG	ATC-3'
cDNA	3' - ATG	TCC	GTC	TCG	GTT	AAA	TTA	TTC	CTC	CCT -or- CCC	TAG-5'
mRNA	AUG	UCC	GUG	UGC	GUU	AAA	UUA	UUC	CUC	CCU -or- CCC	UAG
tRNA	UAC	AGG	CAC	AAC	CAA	UUU	AAU	AAG	GAG	GGA -or- GGG	AUG
AA	Met	ser	Val	Trp	val	Lys	Leu	Phe	Leu	pro	—
Letter	START	F	E	U	E	R	B	A	C	H	I

##### c. Which side of DNA is used for transcription? The template DNA strand.

# Answer Key For Decoding Dna

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