

Decoding DNA

Part 1: DNA Structure

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

tDNA	5' - GGC	TAC	TTA	AAG	CGC	CCT	ATA	ACT
cDNA	3' - GGC	ATC	AAT	TTC	CGG	CCA	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: tDNA = template DNA; cDNA = complementary DNA)

1. Basic Decoding:

tDNA	5' - TAC	TAA	CAC	GAT	GTA	TAT	CGT	ATG	AGC	ACT - 3'
mRNA	AUG	AUD	GUU	CUA	CAU	AAA	CCA	UAC	UCC	UCA
AA	met	Leu	Val	Ileu	Ileu	Leu	Pro	Tyr	Ser	—
Letter	START	D	E	C	O	D	I	N	G	?

2. Decoding with anti-codons:

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

- 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.

- What is tRNA's role 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?

tDNA	5' - TAC	AGG	CAC	ACC	CAA	TCT	AAT	AAG	GAG	GGA -or- GGG	ATC - 3'
cDNA	3' - ATG	TCC	GTC	TGG	GTT	AAA	TTA	TTC	CTC	CCT -or- CCC	TAC - 5'
mRNA	AUG	UCC	GUU	UGG	GUU	AAA	UUA	UUC	CUC	CCU -or- CCC	UAG
tRNA	UAC	AGC	CAC	ACC	CAA	UUU	AAU	AAC	GAC	GGA -or- GGG	AUG
AA	Met	Ser	Val	Trp	val	Lys	Ileu	Phe	Ileu	pro	—
Letter	START	F	E	U	E	R	B	A	C	H	?

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

Answer Key For Decoding Dna

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Answer Key For Decoding Dna:

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Forum ,2003 **What is DNA?** ,2003 *English Teaching Forum* ,2003 **Educart**

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Human Design Unlocked: Discover your energy type and harness your power Alexandra Fullerton,2025-06-19 Discover the power of Human Design a revolutionary system for understanding your energy type and unlocking your unique potential

Microbiology William Matthai,Creager,Black,1990 **Finance Week** ,2003-07 **Biology** Cecie Starr,2000 **Clinical Genomics: Practical Applications for Adult Patient**

Care Michael F. Murray (Physician),Mark W. Babyatsky,Monica A. Giovanni,Fowzan S. Alkuraya,Douglas R. Stewart,2014 The first book on the clinical application of genetics in primary care medicine Clinical Genomics focuses on the everyday application of genetic assessment and its diagnostic therapeutic and preventive implications in clinical practice Unlike traditional textbooks on medical genetics and dysmorphology this is a clinical reference that covers many of the common diseases seen in everyday medical practice Features endorsed by the American College of Physicians addresses the genetic basis of common chronic diseases not just the classic diseases of dysmorphology

Chapter Resource 10 How

Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **The Papers of James Madison**
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