

PROTEIN SYNTHESIS

TRANSLATION



1. Translation is the process of synthesizing a protein from an mRNA template. The mRNA template is read in groups of three bases called codons. Each codon codes for a specific amino acid.

2. During translation, the ribosome moves along the mRNA template, reading the codons and adding the corresponding amino acids to the growing polypeptide chain.

3. The process of translation is controlled by transfer RNA (tRNA) molecules, which carry the amino acids to the ribosome. Each tRNA has an anticodon that matches the codon on the mRNA template.



THE GENETIC CODE

"One codon at a time"

1. Biological systems use sequences of three nucleotides to specify the amino acids that are used to build proteins. These sequences are called codons.

2. Each codon specifies a particular amino acid. There are 64 possible codons, but only 20 different amino acids are used to build proteins. This means that some codons code for the same amino acid.

3. The genetic code is universal, meaning that the same codon always codes for the same amino acid in all organisms.

4. The genetic code is a set of rules that determines how the sequence of nucleotides in a gene is translated into the sequence of amino acids in a protein.

"One gene - one protein"

1. Each gene contains the instructions for making a specific protein. The sequence of nucleotides in a gene determines the sequence of amino acids in the protein.

2. The protein then folds into a specific shape, which determines its function.

3. A copy of the genetic code can be found on page 119.

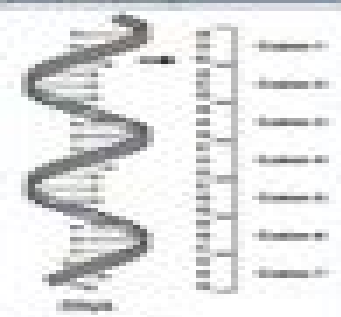


Diagram of a DNA molecule.

Diagram of a protein molecule.

THE GENETIC CODE

		Second base				
		U	C	A	G	
U	UUU	Leu	UCU	UAU	UGU	U
	UUC		UCC	UAC	UGC	C
	UUA		UCA	UAA Stop	UGA Stop	A
	UUG		UCG	UAG Stop	UGG Trp	G
C	CUU	Leu	CCU	CAU	CGU	C
	CUC		CCC	CAC	CGC	C
	CUA		CCA	CAA	CGA	A
	CUG		CCG	CAG	CGG	G
A	AUU	Ile	ACU	AUU	AUU	U
	AUC		ACU	AUA	AUG Met	C
	AAA		ACA	AAA	AAA	A
	AAG		ACG	AAG	AAG	G
G	GUU	Val	GCU	GAU	GGU	G
	GUC		GCC	GAC	GGC	C
	GUA		GCA	GAA	GGA	A
	GUG		GCG	GAG	GGG	G

THE GENETIC CODE: A REFERENCE

THE GENETIC CODE

Genetic Code			
5' to 3'	3' to 5'	1st base	2nd base
UUU	UUU	U	U
UUC	UUC	U	C
UUA	UUA	U	A
UUG	UUG	U	G
UUA	UUA	U	A
UUG	UUG	U	G
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1. Using the genetic code, determine the amino acid sequence for the following mRNA sequence. Remember to use the start and stop codons.

ATG GCG ATT GGC GAA TTC ATA

2. Using the genetic code, determine the amino acid sequence for the following mRNA sequence. Remember to use the start and stop codons. For 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 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Jessica J Manson



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