



QUIZ

Time

Bio I9

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Bio 19

What is the genetic code?

- A. The rules that govern how DNA sequence is converted to protein sequence
- B. The complete genome sequence
- C. The process of DNA replication
- D. The structure of chromosomes

What is the TATA box?

- A. A protein complex
- B. A crucial promoter sequence in eukaryotes
- C. A type of RNA
- D. A cellular organelle

What is gene expression?

- A. The process cells use to convert DNA instructions into functional products like proteins or non-coding RNA
Done
- B. The process of DNA replication only
- C. The process of protein degradation
- D. The process of cell division

What are introns?

- A. Coding regions of genes
- B. Noncoding stretches of nucleotides between coding regions
- C. Proteins that help in transcription
- D. Types of RNA molecules

What is a promoter?

- A. The DNA sequence where RNA polymerase attaches
- B. The end of a gene
- C. A type of protein
- D. A stop codon

How many nucleotides make up a codon?

- A. Two
Done
- B. Three
- C. Four
- D. Five

What is the main difference between prokaryotic and eukaryotic gene expression?

- A. Prokaryotes do not perform transcription
Done
- B. In prokaryotes, translation can begin before transcription is finished
- C. Eukaryotes do not have ribosomes
- D. Prokaryotes do not produce proteins

What is the template strand in DNA?

- A. The strand that provides the template for ordering RNA nucleotides during transcription
Done
- B. The strand that codes directly for proteins
- C. The strand that contains introns only
- D. The strand that contains the promoter sequence only

According to the Central Dogma of Molecular Biology, what is the correct sequence of information flow?

- A. RNA → DNA → Protein
- B. DNA → Protein → RNA
- C. DNA → RNA → Protein
- D. Protein → DNA → RNA

What is the function of RNA polymerase?

- A. To break down RNA molecules
- B. To synthesize RNA using DNA as a template
- C. To synthesize proteins
- D. To replicate DNA

Answers

1-a

6-b

2-b

7-b

3-a

8-a

4-b

9-c

5-a

10-b