

Biology 15

Genes and

Proteins

MCQ

Author: OpenStax College

Published 2015

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4. Chapter: Biology 15 Genes and Proteins MCQ

1. Biology 15 Genes and Proteins MCQ Questions

4.1.1. The AUC and AUA codons in mRNA both specify isoleucine. What featur...

Author: OpenStax College

The AUC and AUA codons in mRNA both specify isoleucine. What feature of the genetic code explains this?

Please choose only one answer:

- complementarity
- nonsense codons
- universality
- degeneracy

Check the answer of this question online at QuizOver.com:

Question: [The AUC and AUA codons in mRNA both specify OpenStax College Biology](#)

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4.1.2. How many nucleotides are in 12 mRNA codons?

Author: OpenStax College

How many nucleotides are in 12 mRNA codons?

Please choose only one answer:

- 12
- 24
- 36
- 48

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Question: [How many nucleotides are in 12 mRNA codons OpenStax College Biology](#)

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4.1.3. Which subunit of the E. coli polymerase confers specificity to tran...

Author: OpenStax College

Which subunit of the E. coli polymerase confers specificity to transcription?

Please choose only one answer:

- a
- β
- β'
- s

Check the answer of this question online at QuizOver.com:

Question: [Which subunit of the E. coli polymerase OpenStax College Biology](#)

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4.1.4. The -10 and -35 regions of prokaryotic promoters are called consens...

Author: OpenStax College

The -10 and -35 regions of prokaryotic promoters are called consensus sequences because _____.

Please choose only one answer:

- they are identical in all bacterial species
- they are similar in all bacterial species
- they exist in all organisms
- they have the same function in all organisms

Check the answer of this question online at QuizOver.com:

Question: [The -10 and -35 regions of prokaryotic OpenStax College Biology 1](#)

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4.1.5. Which feature of promoters can be found in both prokaryotes and euk...

Author: OpenStax College

Which feature of promoters can be found in both prokaryotes and eukaryotes?

Please choose only one answer:

- GC box
- TATA box
- octamer box
- -10 and -35 sequences

Check the answer of this question online at QuizOver.com:

Question: [Which feature of promoters can be found OpenStax College Biology](#)

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4.1.6. What transcripts will be most affected by low levels of a-amanitin?

Author: OpenStax College

What transcripts will be most affected by low levels of a-amanitin?

Please choose only one answer:

- 18S and 28S rRNAs
- pre-mRNAs
- 5S rRNAs and tRNAs
- other small nuclear RNAs

Check the answer of this question online at QuizOver.com:

Question: [What transcripts will be most affected by OpenStax College Biology](#)

Flashcards:

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4.1.7. Which pre-mRNA processing step is important for initiating translat...

Author: OpenStax College

Which pre-mRNA processing step is important for initiating translation?

Please choose only one answer:

- poly-A tail
- RNA editing
- splicing
- 7-methylguanosine cap

Check the answer of this question online at QuizOver.com:

Question: [Which pre-mRNA processing step is important OpenStax College Biology](#)

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4.1.8. What processing step enhances the stability of pre-tRNAs and pre-rR...

Author: OpenStax College

What processing step enhances the stability of pre-tRNAs and pre-rRNAs?

Please choose only one answer:

- methylation
- nucleotide modification
- cleavage
- splicing

Check the answer of this question online at QuizOver.com:

Question: [What processing step enhances the stability OpenStax College Biology](#)

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4.1.9. The RNA components of ribosomes are synthesized in the _____.

Author: OpenStax College

The RNA components of ribosomes are synthesized in the _____.

Please choose only one answer:

- cytoplasm
- nucleus
- nucleolus
- endoplasmic reticulum

Check the answer of this question online at QuizOver.com:

Question: [The RNA components of ribosomes are OpenStax College Biology 15 Quest](#)

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4.1.10. In any given species, there are at least how many types of aminoacyl...

Author: OpenStax College

In any given species, there are at least how many types of aminoacyl tRNA synthetases?

Please choose only one answer:

- 20
- 40
- 100
- 200

Check the answer of this question online at QuizOver.com:

Question: [In any given species there are at least OpenStax College Biology](#)

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