

Genetics Exam Review #3

Fill in the blanks:

1. An anticodon is a trinucleotide sequence located at one end of a tRNA molecule, which is complementary to a corresponding codon in a messenger RNA (mRNA) sequence.
2. CTCF binds at chromatin domain boundaries, at enhancers and gene promoters, and inside gene bodies. It can attract many other transcription factors to chromatin, including tissue-specific transcriptional activators, repressors, cohesin and RNA polymerase II, and it forms chromatin loops.
3. Exons are termed nucleic acid coding sequences, which are present in mRNA. Introns are the non-coding sequences present in the hnRNA, which are removed by RNA splicing before translation.
4. Antisense RNA can bind to specific molecules of RNA and block the cell's ability to use the RNA to make a protein or work in other ways.
5. Post-translational regulation refers to the control of the levels of active protein.
6. TERRA is a hetero-decameric protein complex critical for transcription initiation by RNA polymerase II and nucleotide excision DNA repair. It's sufficient for its repair functions and harbors the XPD and XPG DNA-dependent ATPase/helicase subunits, which are affected by human disease mutations.
7. The nucleolus is a ribosome production factory, designed to fulfill the need for large-scale production of rRNAs and assembly of the ribosomal subunits.
8. DNA is composed of two strands of nucleotides held together by hydrogen bonding. The strands each run from 5' to 3' and run in antiparallel directions from one another.
9. Heterochromatin is highly condensed, gene-poor, and transcriptionally silent, whereas euchromatin is less condensed, gene-rich, and more easily transcribed.
10. Alternative splicing is a cellular process in which exons from the same gene are joined in different combinations, leading to different proteins.

What is the role of tRNA in protein synthesis? What are the A/P/E sites?

tRNA is the ultimate link btw mRNA and the growing peptide chain. It contains the anticodon that matches the mRNA codon, and the amino acid that matches the anticodon is added to the growing polypeptide chain.

- the A site binds incoming aminoacyl-tRNA
- the P site holds the tRNA w/ the growing polypeptide chain
- tRNA that no longer holds its AA is released!

What are Okazaki fragments?

Short sequences of DNA nucleotides which are synthesized discontinuously and are later linked together by the enzyme DNA ligase to create the lagging strand during DNA replication.

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