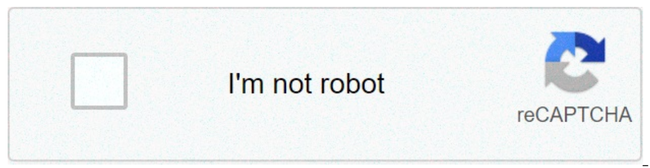

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What catalyzes the formation of peptide bonds during translation

Evide nucleic acids 1. RNA differs from the DNA in being made of nucleotides containing ribose (instead of deoxyribose) and uracyl (instead of timina). 2. There are three main types of RNA found in all cells. They are RNA transfer (tRNA), ribosomal RNA (rRNA), and messenger RNA (mRNA). We'll talk about it later. For now, you should know that mRNAs bring the genetic code needed for protein manufacturing, tRNAs carry amino acids for translation and rRNAs are components of ribosomes that make protein. 3. Catalytic RNAs are called ribozymes. Ribosome contain a ribozyme that catalyzes the formation of peptide bonds. 4. tRNAs bring an amino acid to the end 3' and a basic sequence three call an anti-codone cycle to the other. A sequence in the anti-codone cycle determines which amino acid is attached at the end of 3'. 5. Ribosomal RNA is found in ribosomes and helps ribosome catalyze the formation of peptide bonds during protein synthesis. Soon we'll see at least another function. 6. mRNAs are copied from DNA. They contain instructions for the manufacture of proteins. They are called messenger RNA because they are carrying information from DNA to the place where the protein is made. 7. Small nuclear RNAs (snRNAs), such as micro RNAs (miRNAs) or RNAs (siRNAs) help regulate protein synthesis from mRNAs. Featured DNA Synthesis 1. DNA replication is catalyzed by enzymes called DNA polymerases. catalyze the formation of phosphodiestri bonds. 2. The placeThe DNA in which replication occurs is called the replication fork. 3. The place where DNA replication begins within a DNA is called origin. All DNA polymerases synthesize DNA only in the 5' to 3' direction, and all cell DNA polymerases require a pre-existing segment of nucleic acid (called a primer) from which the synthesis begins. 4. The replication of each DNA strand takes place from another pattern. The main thread is made in one continuous piece. The lagging wire is made in short segments called Okazaki fragments. The two different replication strategies result from the fact that both must occur in the direction from 5' to 3'. Late wire segments can only be started after the main wire synthesis opens the duplex sufficiently. This occurs repetitively during synthesis, generating multiple strands of filament late. 5. Note that the synthesis of the lead and delay wire occurs both with the same replica E fork which is the synthesis of the lead and delay wire occurs exclusively in the direction from 5' to 3'. 6. Prokaryotic replication forks are bidirectional, having started from a single replica origin in opposite directions. The main players of the replica E. coli are - 1) DNA polymerase III complex; 2) beta clamp (holds the complex of DNA polymerase); 3) Single filament binding protein - protects the DNA of the individual filament; 4) Elicasis - deletes the DNA duplex in front of the replica fork; 5) primase - makes the primer of the RNA necessary to start DNA replication; 6) DNA glyrasis - athat relieves the suprahelic tension created by helixes; 7) DNA tyrosis - combines DNA pieces, such as Okazaki fragments together; 8) DNA polymerase I - removes RNA primers and replaces with DNA. 7. All DNA polymerases (enzymes that catalyze DNA synthesis) require 1) 4 dNTPs - dATP, dTTP, dGTP, dCTP; 2) a primer that can extend; 3) a model (complementary wire) that can copy. All DNA polymerases make DNA in the 5' to 3' direction. Primers for DNA replication in cells are short RNAs that are made by an enzyme called Primase. 8. DNA replication always begins at a specific sequence called origin of replication. Prokaryotic cells have a origin of chromosome replica. Eukaryotic cells have many origins of replication for chromosome. 9. DNA polymerase Contains three enzymatic activities - from 5' to 3' polymerization (makes phosphodiester bonds that make DNA strands), 3' to 5' esonucleases (removes RNA primers). DNA Polymerase III lacks esonuclease from 5' to 3'. Protein synthesis begins with the formation of a complex of initiation. In E. coli, this complex involves the small ribosome 30S, the mRNA model, three initiation factors (IF; IF-1, IF-2, and IF-3), and a special initiation tRNA, called \(\text{tRNA}_f^{Met}\). The tRNA initiator interacts with the AUG starting codon (or seldom, GUG), links to a formilated methionine called fMet, and can alsoIF-2. The formilated methionine is inserted by \(\text{fMet} - \text{tRNA}_f^{Met}\) at the beginning of each chain of polypeptide synthesized by E. coli, but is usually cut out after the translation is complete. When an in-frame AUG is encountered during translation stretching, a non-formilated methionine is inserted by a regular Met-tRNAMet. In E. coli mRNA, an upstream sequence of the first AUG codone, called the Shine-Dalgarno sequence (AGGAGG), interacts with the rRNA molecules that make up the ribosome. This interaction still the ribosomal 30S subunit in the correct position on the mRNA model. Guanosine triphosphate (GTP), which is a purine nucleotide triphosphate, acts as a source of energy during translation, both at the beginning of stretching and during the transfer of ribose. In eukaryotes, similar forms of complex initiation, which include mRNA, the small 40S rebosomal subunit, IF and nucleosis triphosphates (GTP and ATP). The TRNA charge initiator, called Met-tRNAi, does not bind fMet in eukaryotes, but is distinct from other Met-tRNAs as it can bind IFs. Instead of depositing the Shine-Dalgarno sequence, the eukaryotic initiation complex recognizes the 7-methylguanosine cap at the end of 5' of the mRNA. A cap-binding protein (CBP) and several other IFs help ribosome movement to cap 5'. Once in the cap, the initiation complex tracks along the mRNA in 5' to 3' direction, in search of the AUG start codon. Many eukaryotic mRNAs arefrom the first AUG, but this is not always the case. According to Kozak's rules, nucleotides around the AUG indicate whether it is the proper start codon. Kozak's rules state that the following sequence of consent must appear around the AUG of vertebrate genes: 5'gccRccAUGG -3. The R (for purine) indicates a site that may be A or G, but cannot be C or U. Essentially, the closer the sequence is to this consent, the higher the translation efficiency. Once the appropriate AUG, other proteins and CBP dissociated is identified, and the 60S subunit binds to the Met-tRNAi complex, mRNA and 40S subunit. This step completes the initiation of translation into eukaryotes. Eukaryotes.

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