

PT 1 : Concept Map of the Central Dogma of Molecular Biology

BY 11-3 ULDARIC BEA GRACE REDONA

ELONGATION

RNA n...

EXPRESSION OF GENES

Protein Synthesis

Amino acid

tRNA

IN NUCLEUS

TRANSCRIPTION

1. INITIATION

- Transcription factors bind to the RNA Polymerase II and forms **Transcription Initiation Complex**.
- Transcription Initiation Complex binds to region in DNA sequence called the **promoter** which contains the **TATA box**.
- RNA Polymerase II unwinds the DNA strands and begins RNA Synthesis at the start point of the **template strand**.

IN NUCLEUS - PREPARING FOR EXIT -

RNA PROCESSING

1. 5' CAP and POLY-A TAIL

- Before the pre-mRNA exits the nucleus it is first processed and edited.
- The **5' end of the mRNA** receives a **5' cap**, which is a modified version of a Guanine nucleotide (Guanine + triphosphate).
- The **3' end** on the other hand, receives an **Poly-A tail** which contains 50-250 Adenine Nucleotides.

IN CYTOPLASM

TRANSLATION

1. INITIATION

- The **small ribosomal sub-unit** binds with the **mRNA** and **initiator tRNA**, forming the **initiation complex**.
- **1 ATP** is spent to bind the **large ribosomal sub-unit** to the initiation complex, which forms the **Translation Initiation Complex**.
- The initiator tRNA is now in the **P-site** and the **A-site** is waiting for the next aminoacyl tRNA.
- The synthesis of the polypeptide chain has started.

2. ELONGATION

Handwritten notes:
brought to the 5' Cap and then scans down strand looking for AUG

Concept Mapping The Central Dogma Of Biology Answer Key

Khathatso Evelyn Khabanyane



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