Pre-Processing of mRNA After pre-mRNH is formed after transcription, it needs to be pre-prosessed in case of cularystes In pre-mRNA we have: 2) Introns -> does not code for proteins Introve do not have any purpose in protein synthesis

Hence they are referred to as non-sensual

Exons

Introve

Introve These Introns do not actually contribute to protein synthesis. They are spliced out by splicesome enzyme After Intrens splice out, Exons rejoin to form nature RNA This end product mature KNA leaves the nucleus - cytoplasm

mRNA: In mRNA, sequence of 3 horses -> codon Each codor codes for specific amino acid (ACCr-> methionine) Stop Codon (VAA, VAG, VGA) ERNA: when mature mRNA reaches cytoplason, the enzyme Aminoacyle HRNA synthetase help in recognition of aminoacid. This enjugare hers two sites:

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Site 2 > tRANA brinds in this site

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Throughout this binding process, 4 ATP(s) are required for each amino acid added to polypeptide chain
Two ATP -> to charge tRNA
One ATP -> to carry charged tRNA to ribosome
One ATP -> to more ribosome to next codon