

Protein Synthesis Test Directions:

1. Fill in the **complementary DNA triplet** using DNA base pairing rules
2. Transcribe the **BOTTOM DNA strand (Use #1)** and Fill in the **mRNA codon (#2)**
3. Use the Codon Chart & Write the 3 letter abbreviated Amino acid (#4) and the correct tRNA anticodon (#3)

Codons Found in Messenger RNA

Second Base

First Base

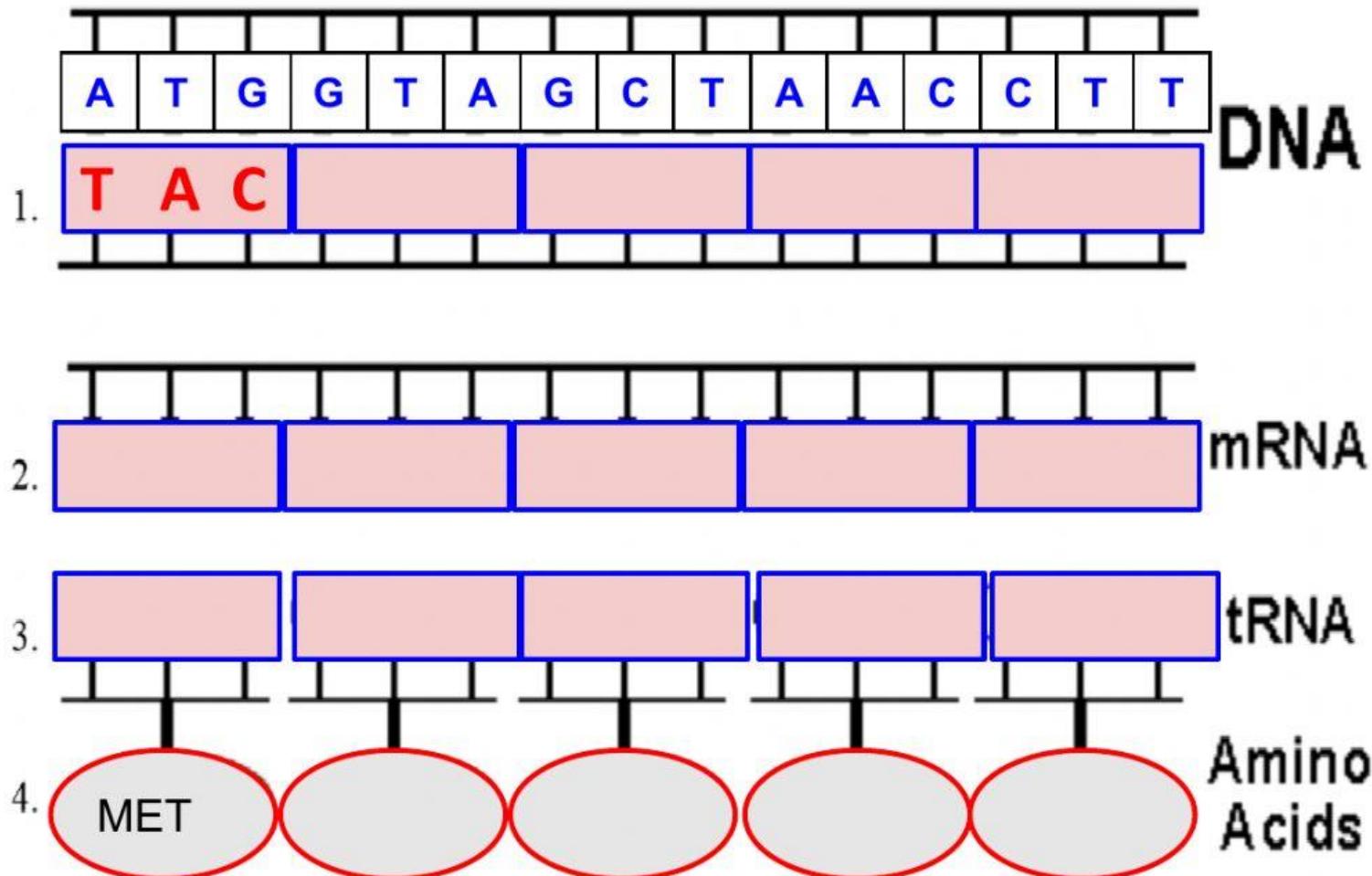
Third Base

	U	C	A	G	
U	Phe Phe Leu Leu	Ser Ser Ser Ser	Tyr Tyr Stop Stop	Cys Cys Stop Trp	U C A G
C	Leu Leu Leu Leu	Pro Pro Pro Pro	His His Gln Gln	Arg Arg Arg Arg	U C A G
A	Ile Ile Ile Met	Thr Thr Thr Thr	Asn Asn Lys Lys	Ser Ser Arg Arg	U C A G
G	Val Val Val Val	Ala Ala Ala Ala	Asp Asp Glu Glu	Gly Gly Gly Gly	U C A G

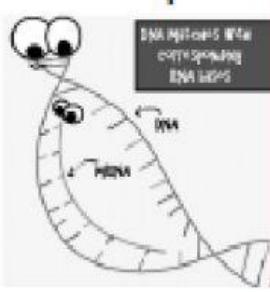
CFU Protein Synthesis
Carefully Read Directions
Complete #1, #2, #3, and #4
Answer Questions on next slide

Base Pairing Rules

DNA	DNA	mRNA	tRNA
Replication	Transcription	Step in Translation	
A	T	A	U
C	G	C	G
G	C	G	C
T	A	U	A



Answer Questions

Name of process	Where is this process located?	Is DNA directly involved in this process?	Which types of RNA are involved? <i>mRNA, rRNA, tRNA</i>	End result and purpose.
Transcription	 <p>DNA unwinds RNA complementary RNA made</p>			
Translation	 <p>Appropriate 'sites' Reading site spotted</p>	No, as DNA remains in the nucleus and this process is not in the nucleus.		