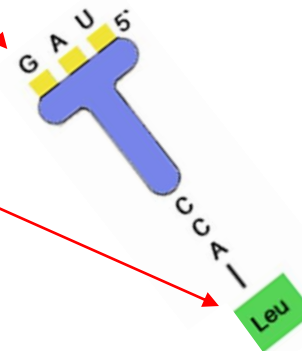
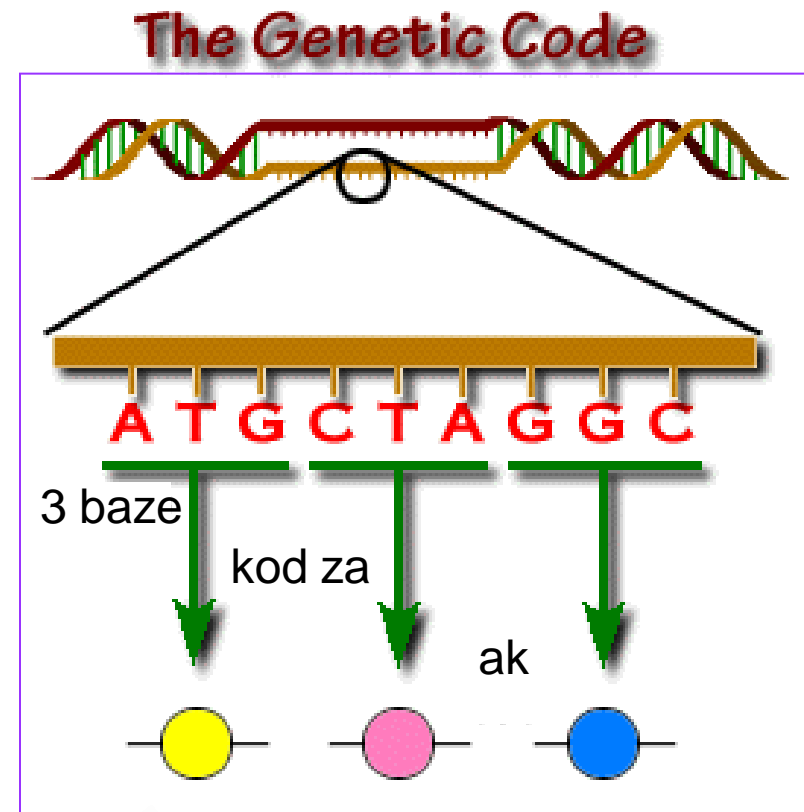


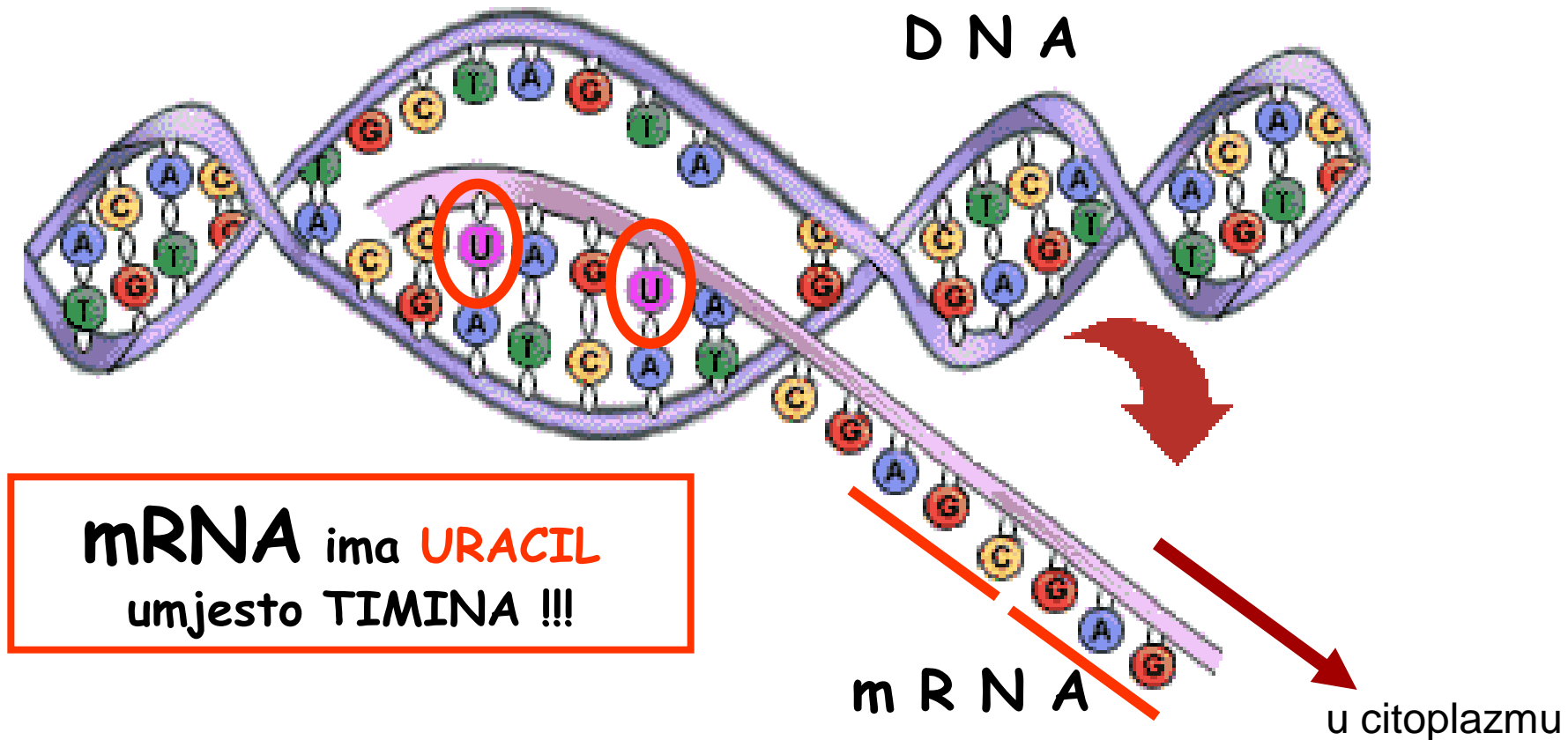
SINTEZA PROTEINA

- **TRANSKRIPCIJA –PREPISIVANJE** gena na mRNA -trojke, tripleti = kodoni → **U JEZGRI**
- **TRANSLACIJA – PREVOĐENJE** niza trojki sa mRNA u aminokiseline po tablici genetskog koda → **U CITOPLAZMI**
(tu sudjeluje tRNA sa antikodonom – otpušta aminokiselinu u lanac)

- DNA = KODovi
- mRNA = KODONI
- tRNA = ANTIKODON
i AMINOKISELINA

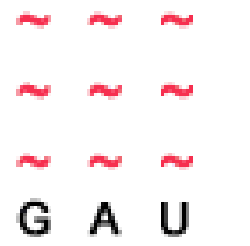


transkripcija u jezgri

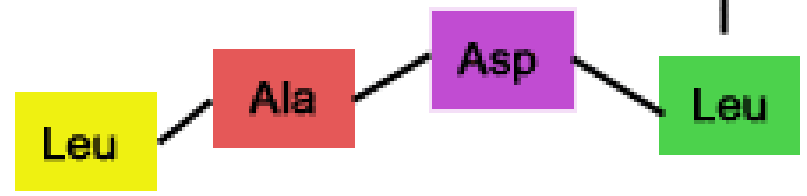
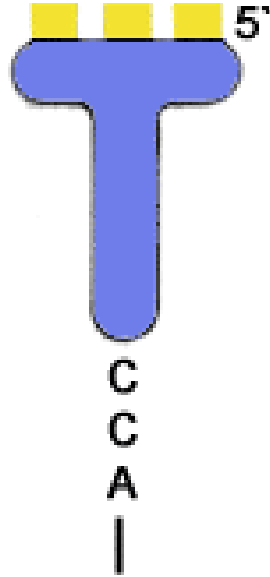


3 po 3 baze = KODON

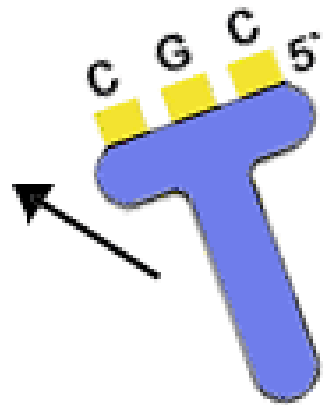
mRNA



TRANSLACIJA
NA RIBOSOMU
U CITOPLAZMI



newly synthesized amino acid chain



incoming tRNA carrying
an amino acid

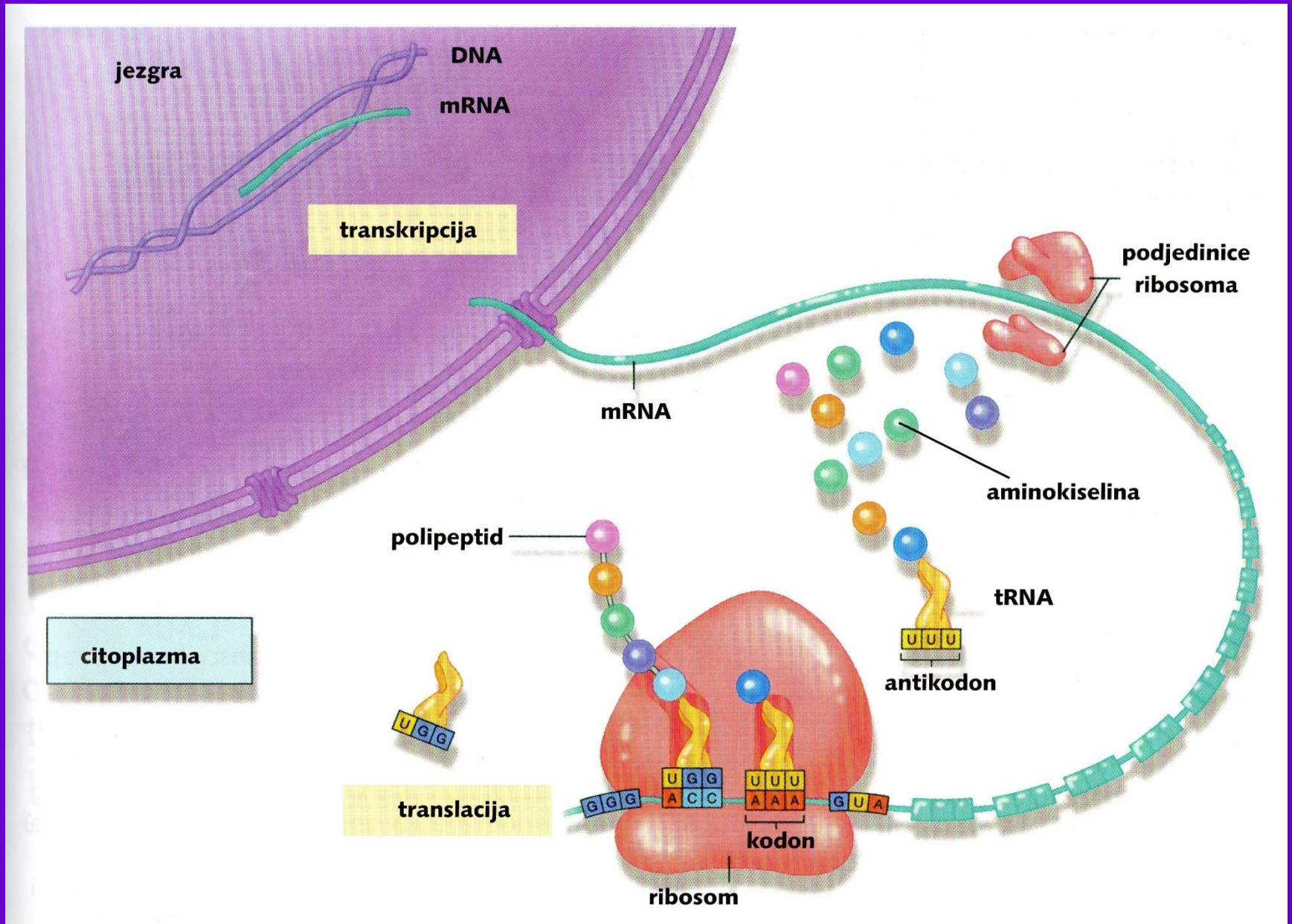
TABLICA PREVOĐENJA (PO KODONIMA)

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

**STARTNI
KODON**



CJELOKUPNI PRIKAZ SINTEZE PROTEINA



-pogledaj animaciju u koracima

<http://www.stolaf.edu/people/giannini/flashanimat/molgenetics/translation.swf>