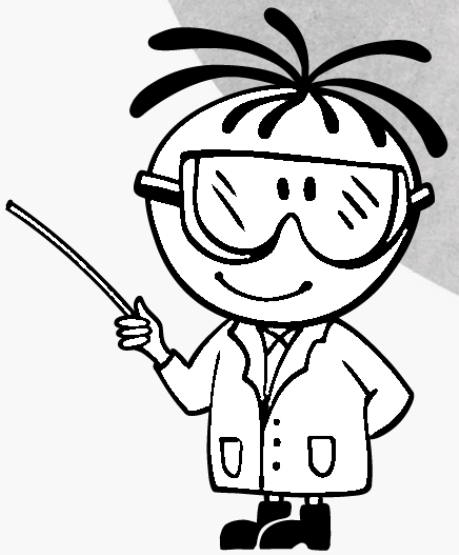
GRADE 12
CODE OF LIFE

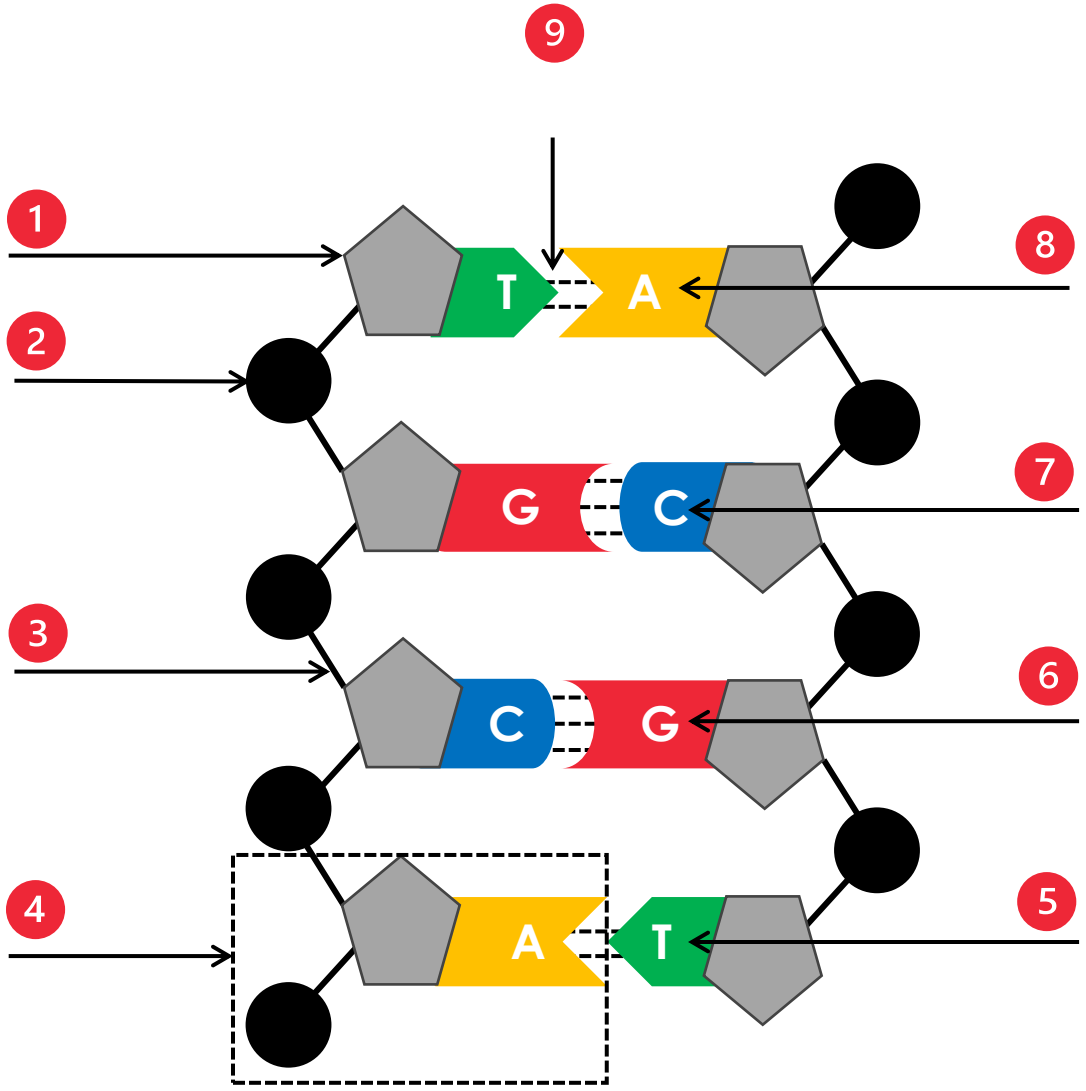
REVISION



THE ANSWER SERIES *Your Key to Exam Success*

DNA STRUCTURE

Provide labels for the structure of DNA.



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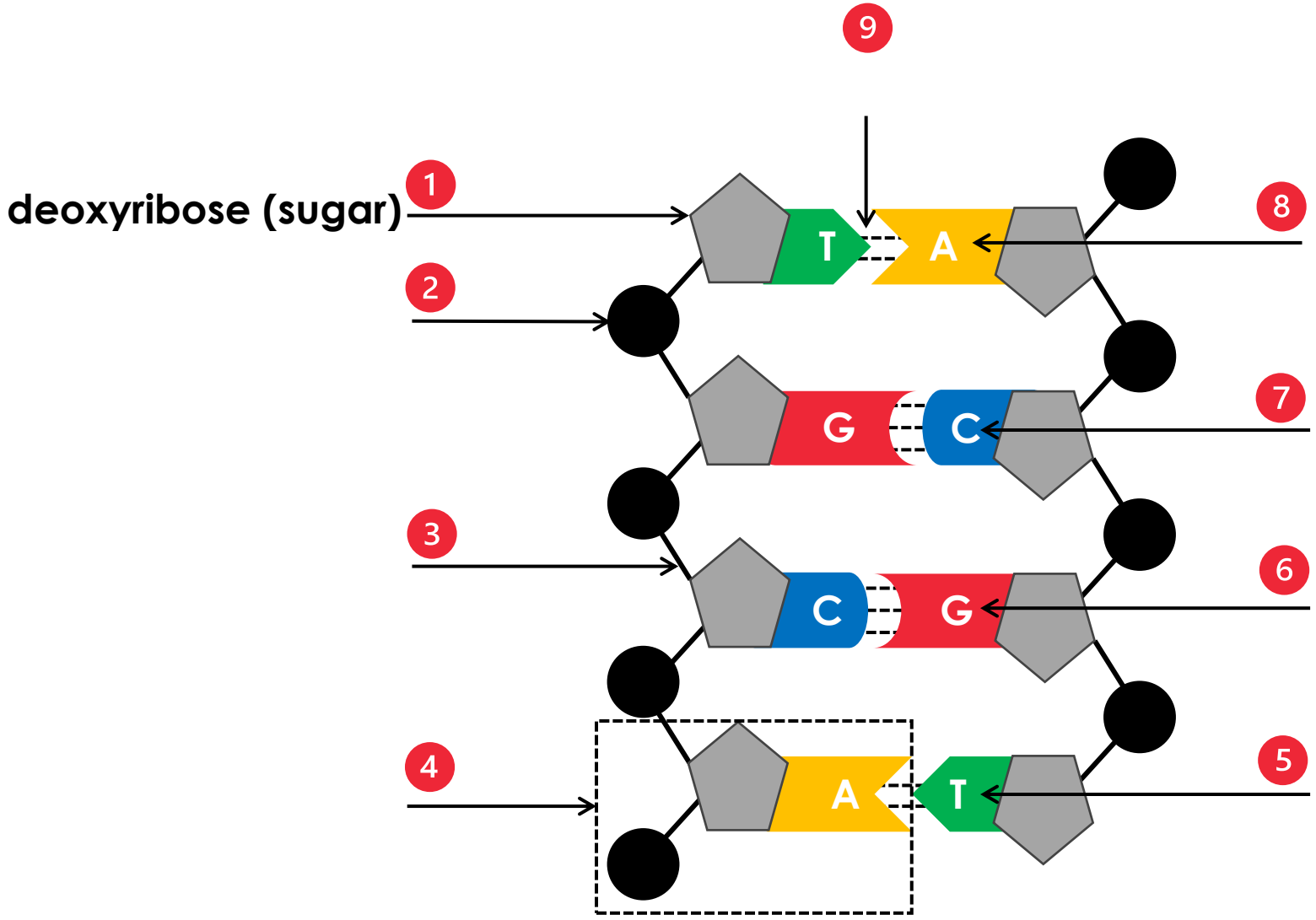

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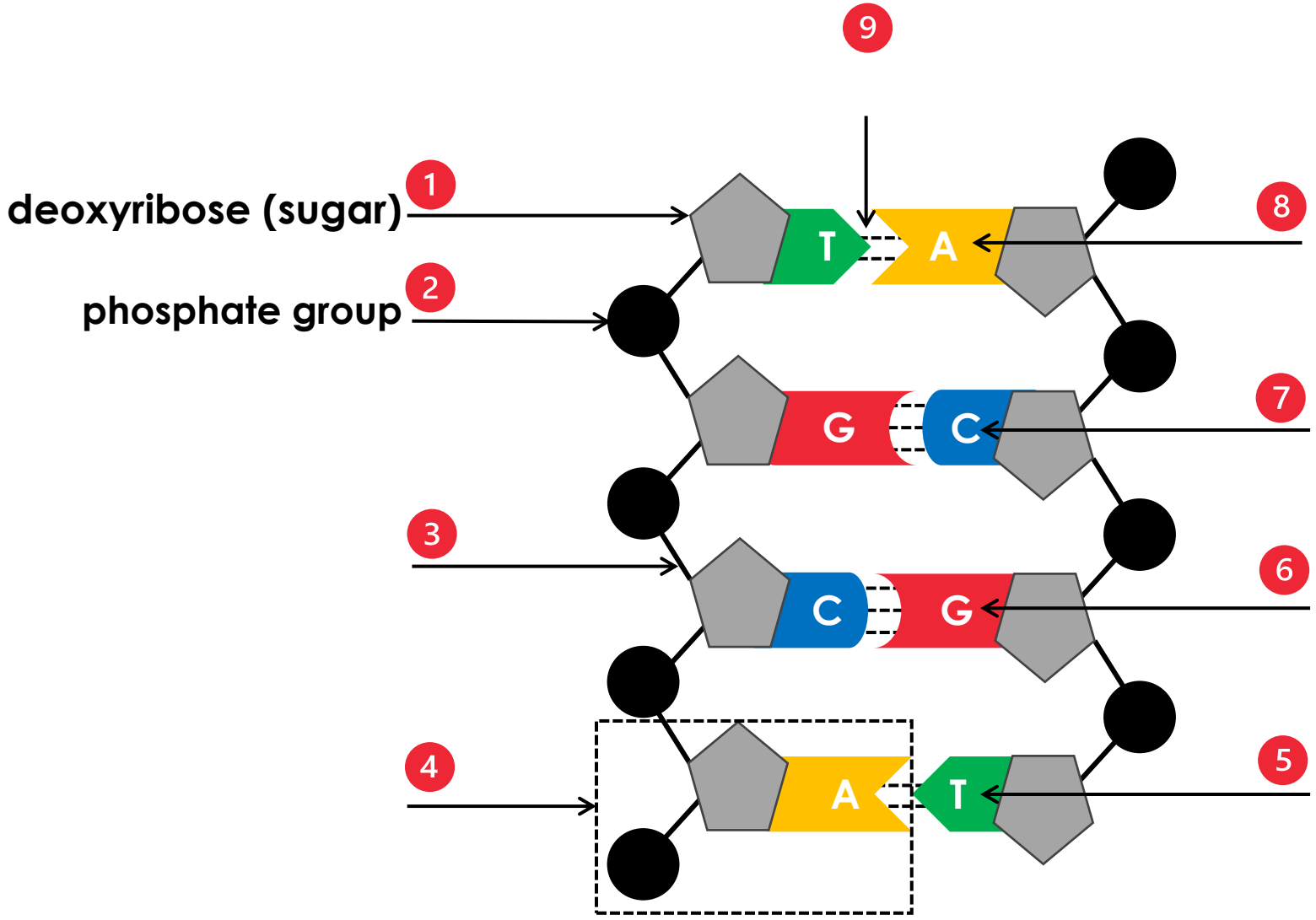

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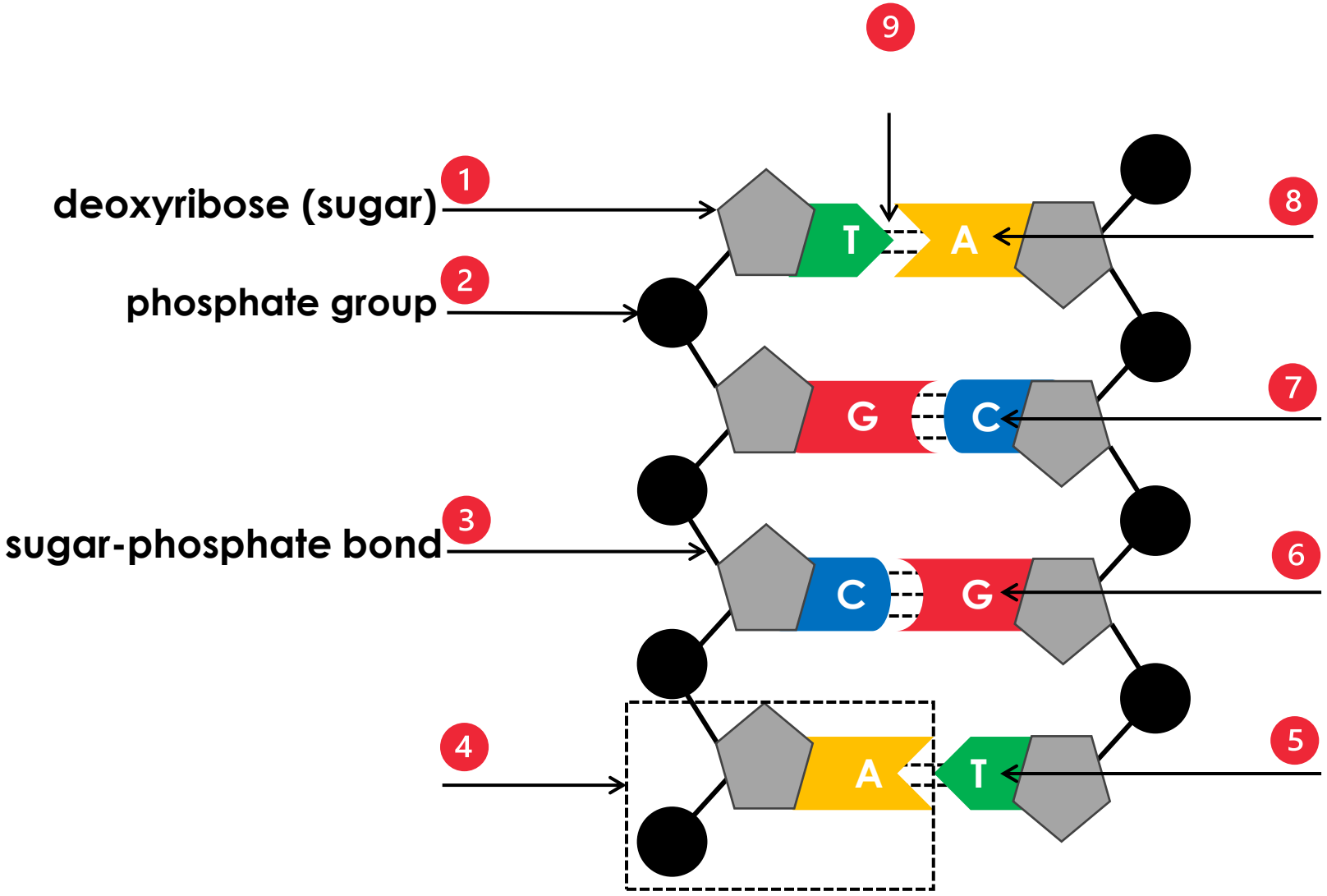

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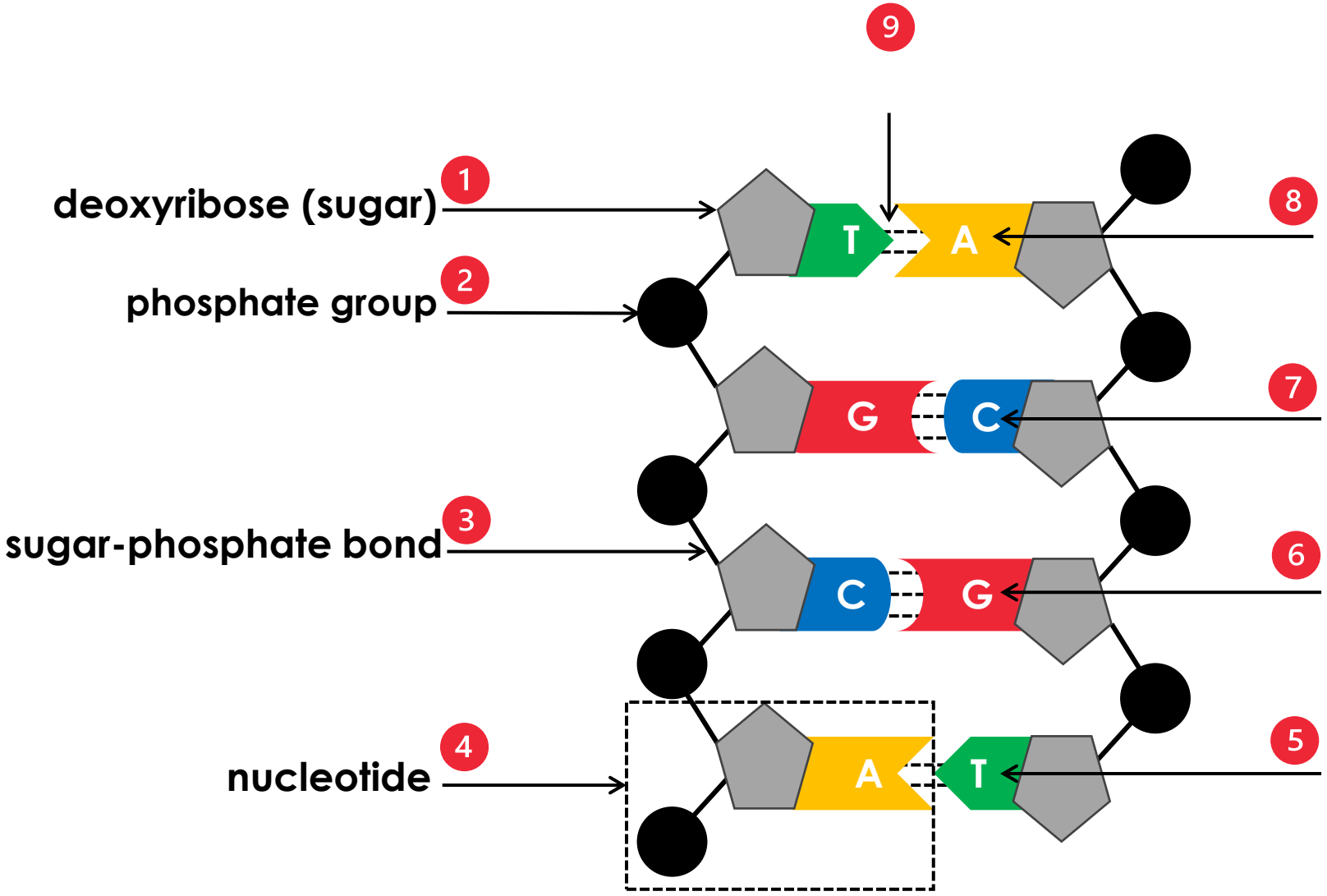

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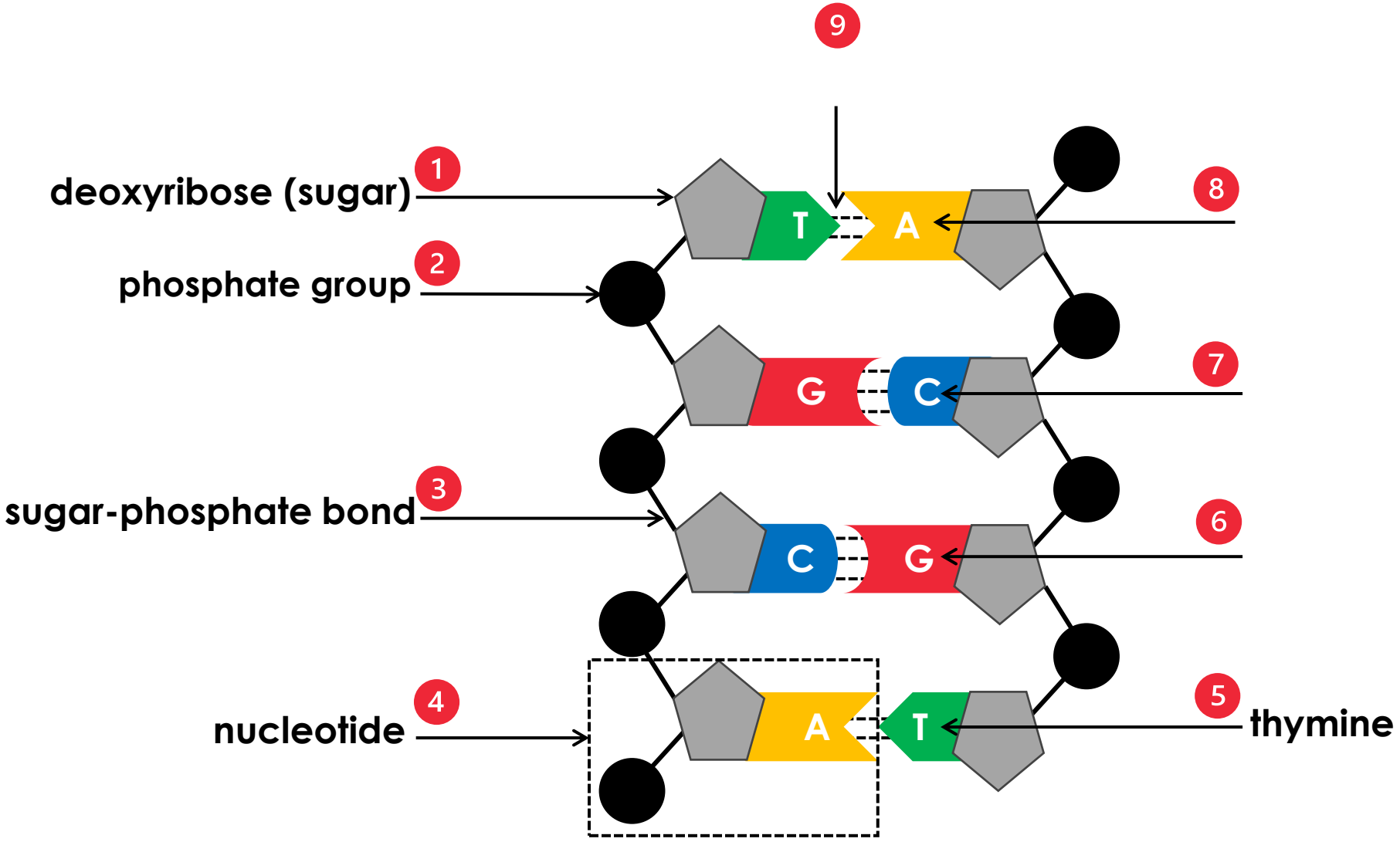

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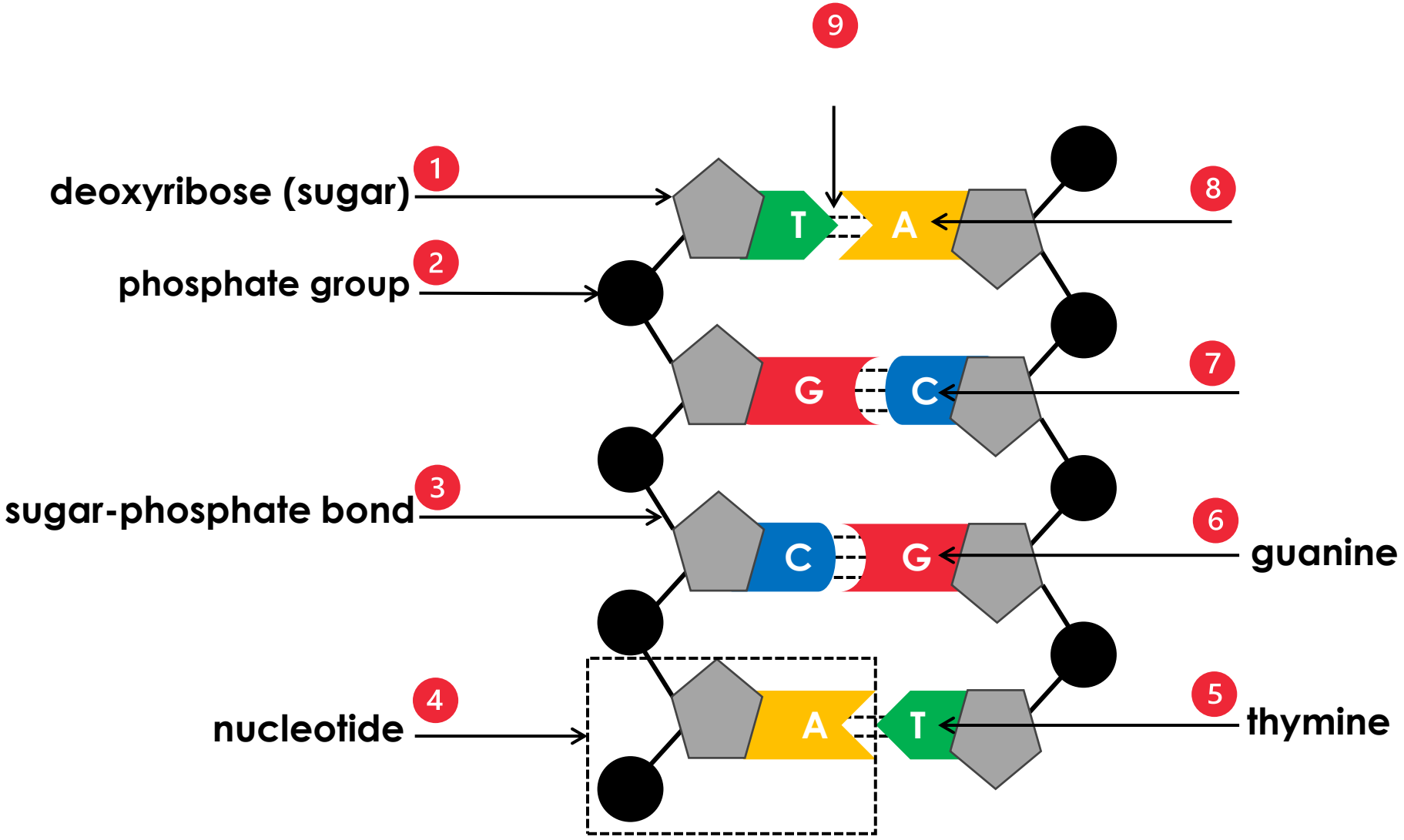

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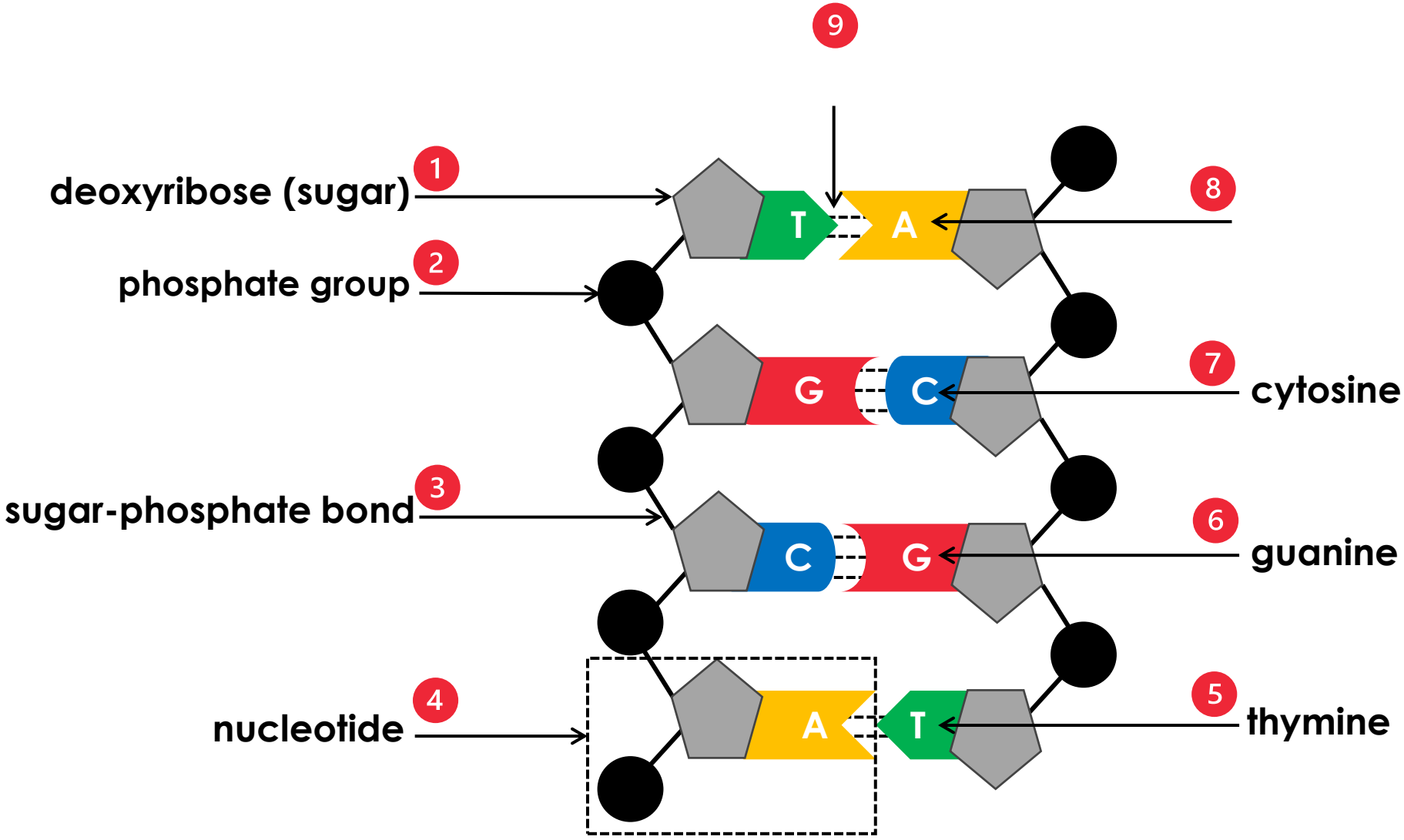
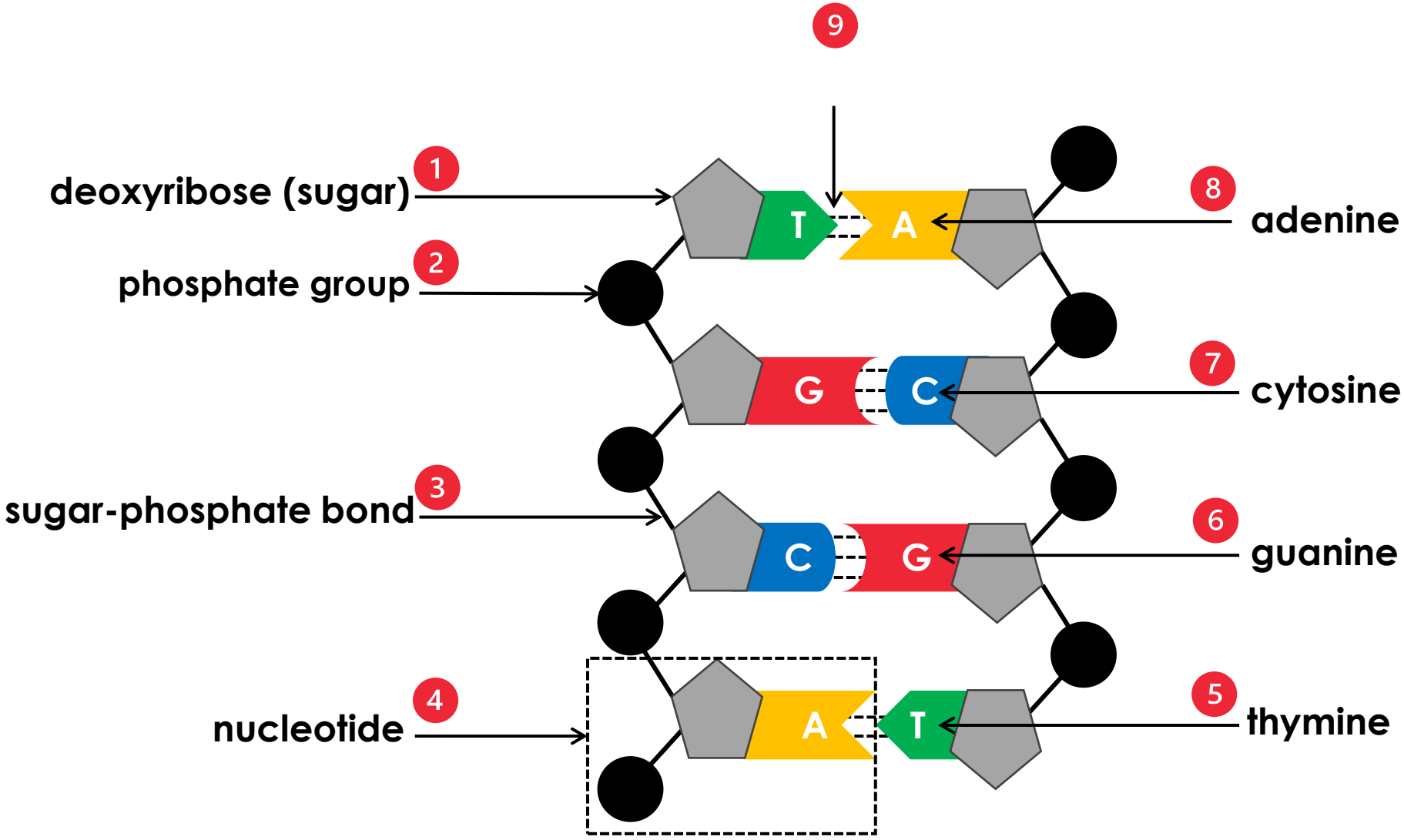


Provide labels for the structure of DNA.



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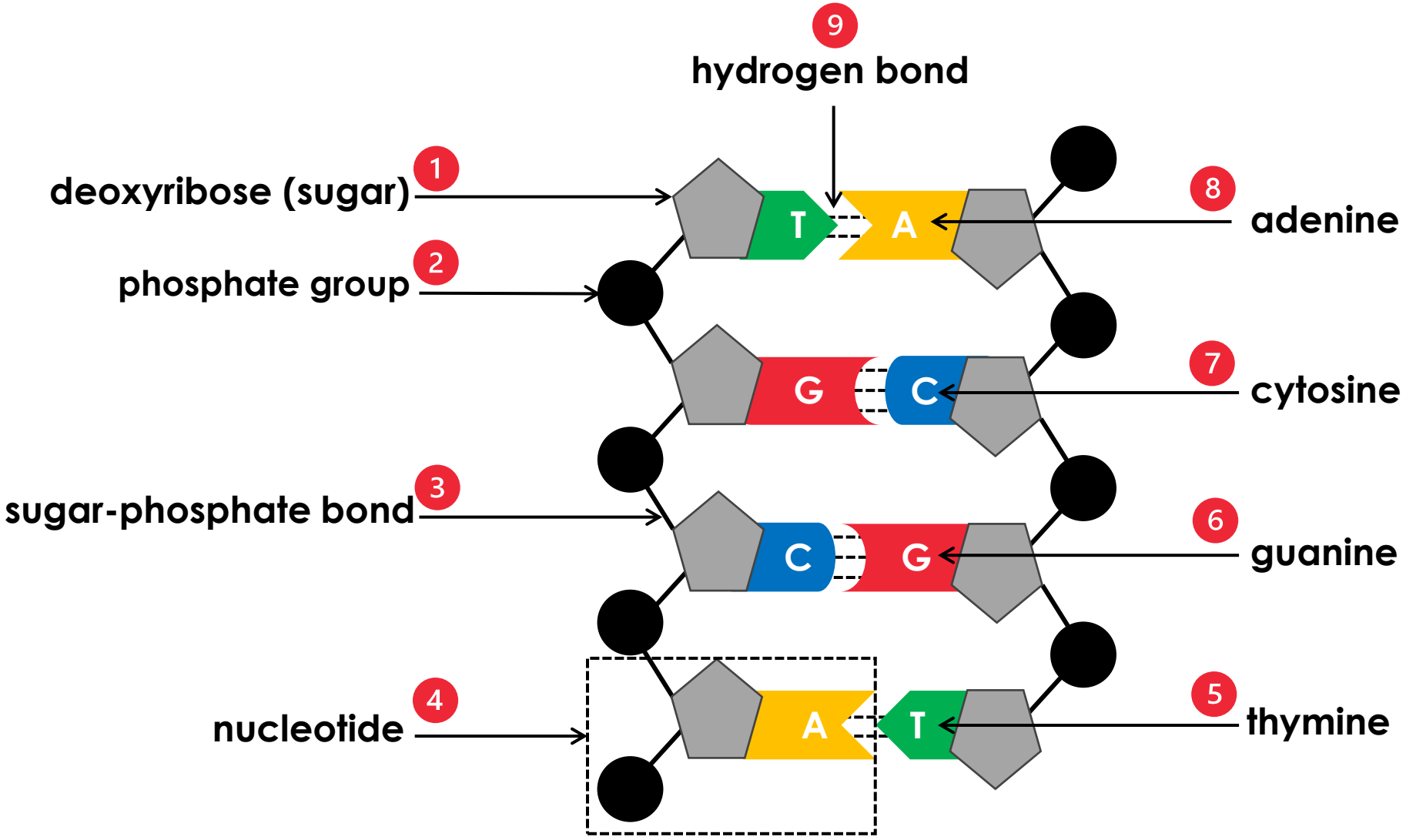
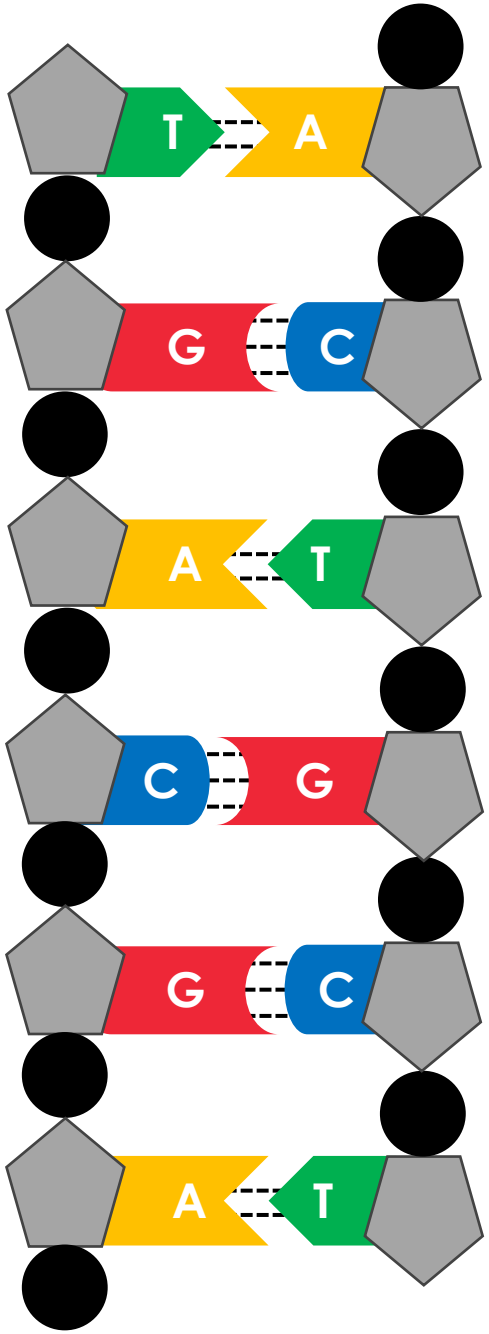
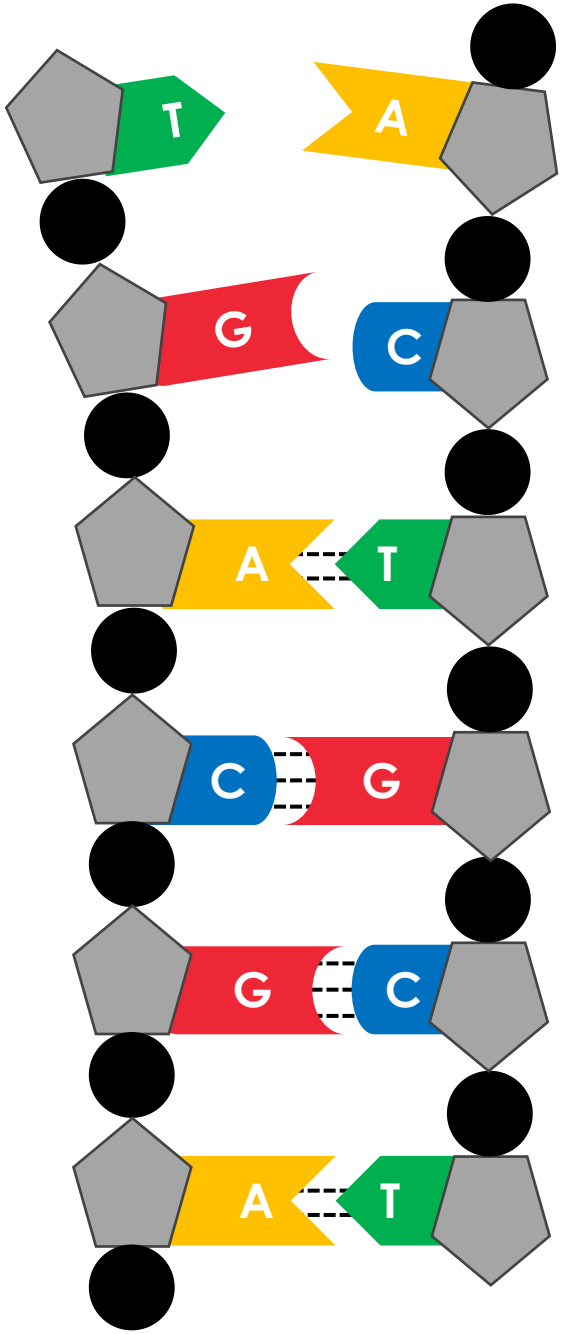
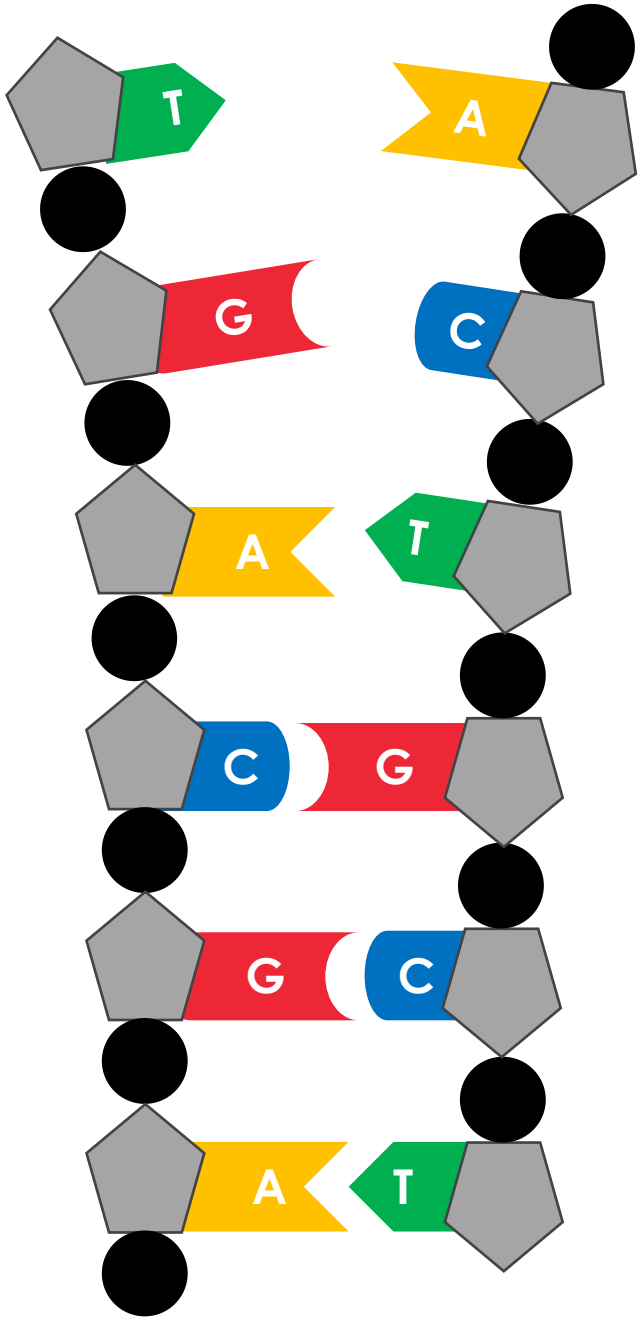
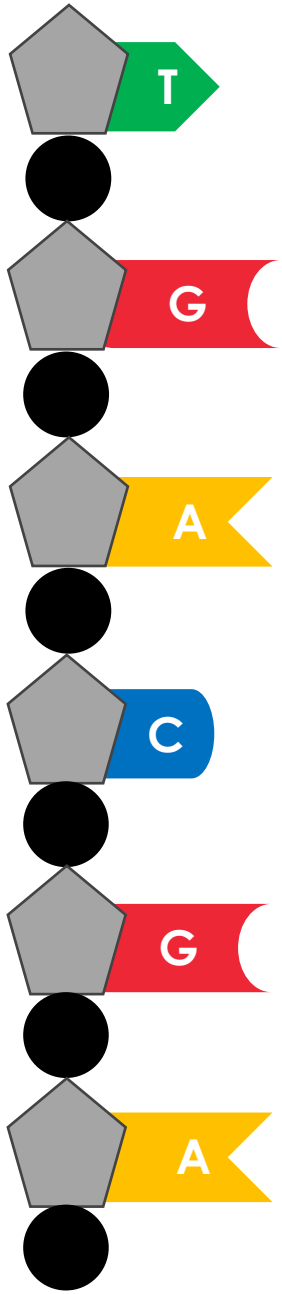


DNA REPLICATION

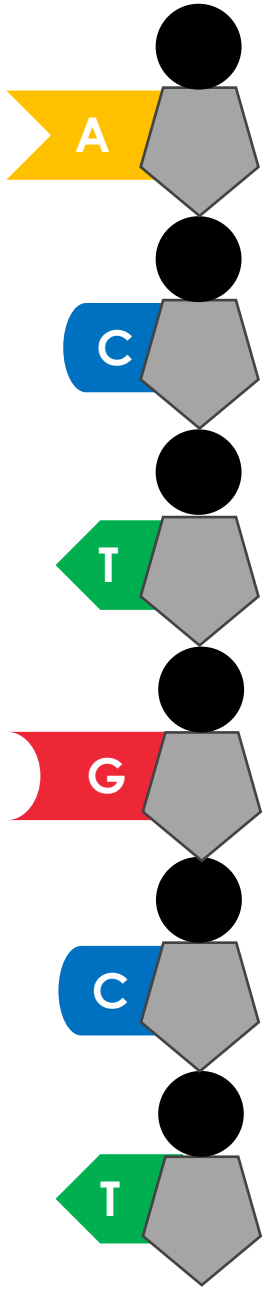


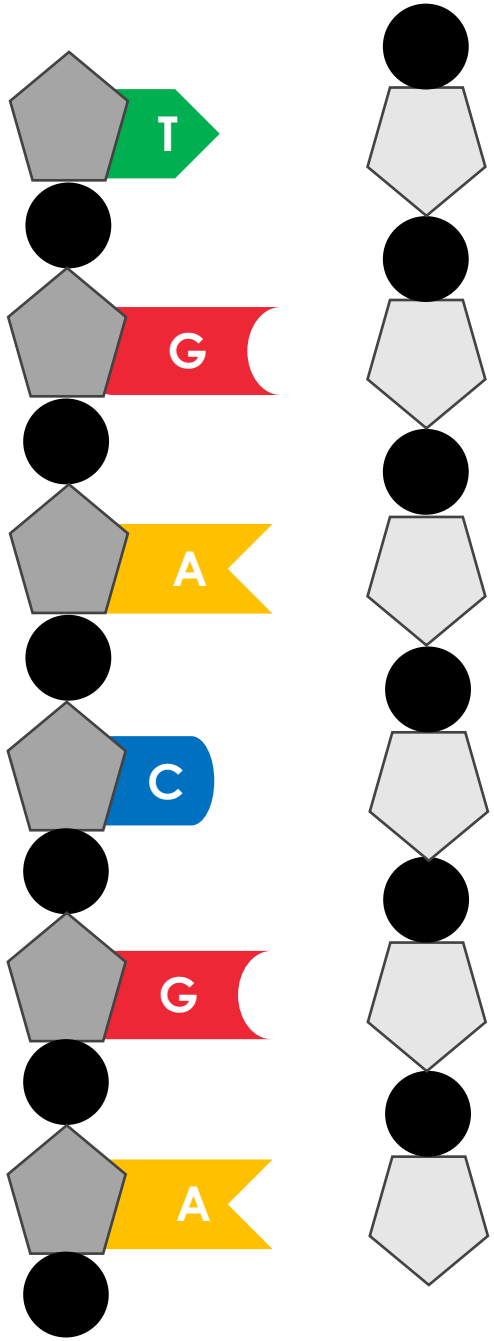


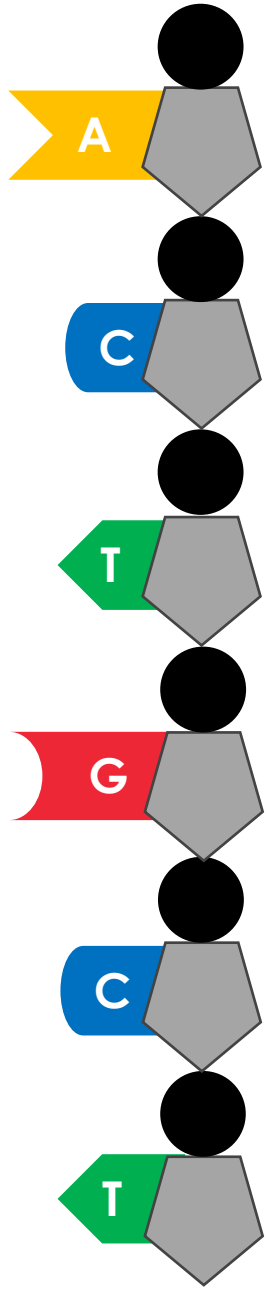


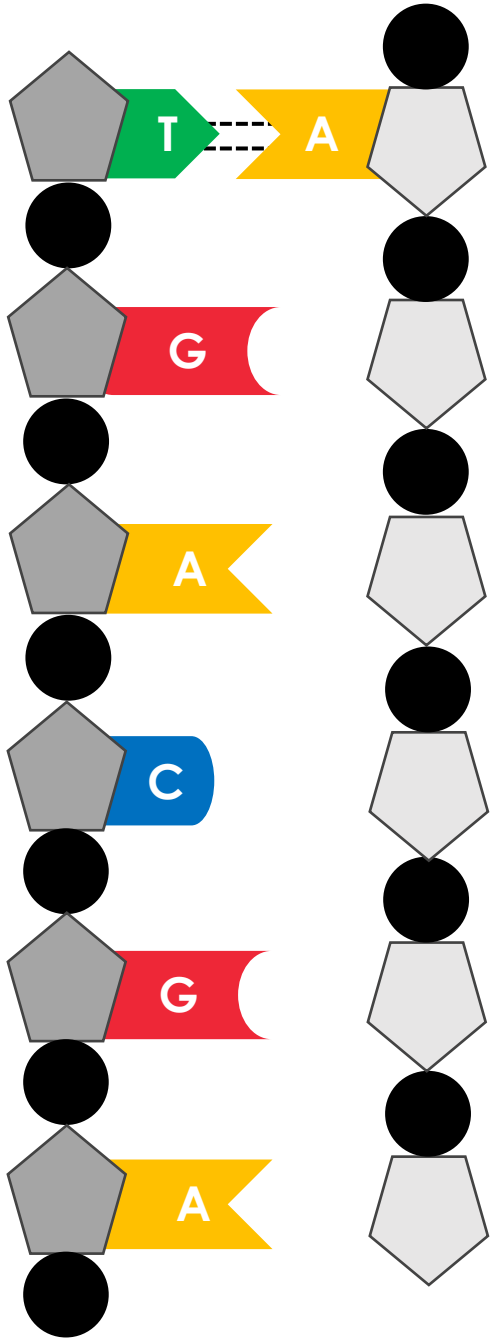


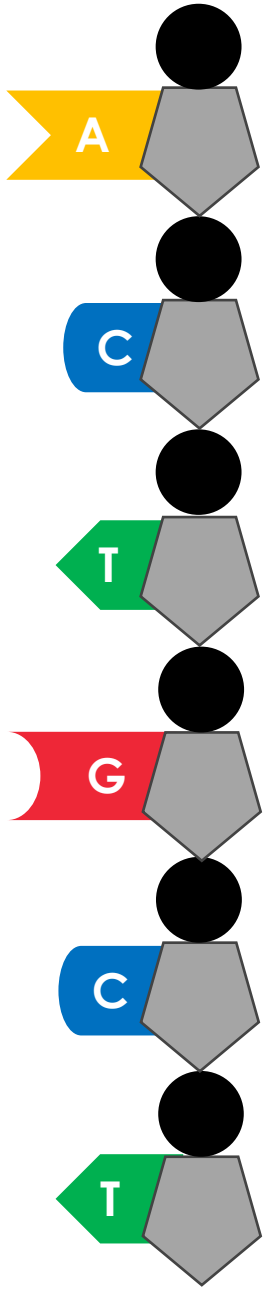
Complete the sequence of nitrogenous bases of the two replicated strands.

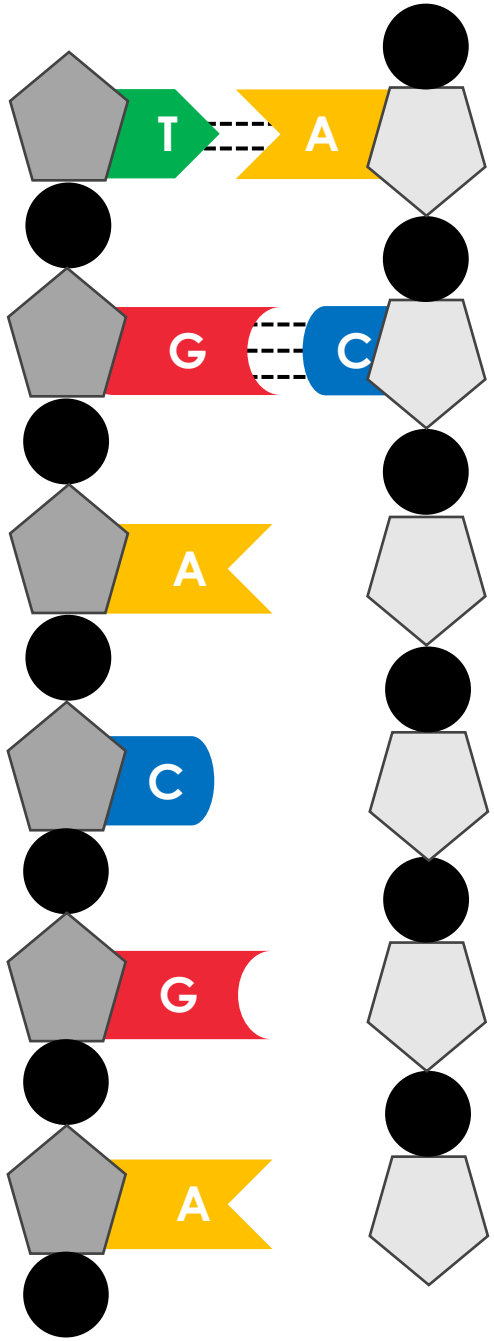


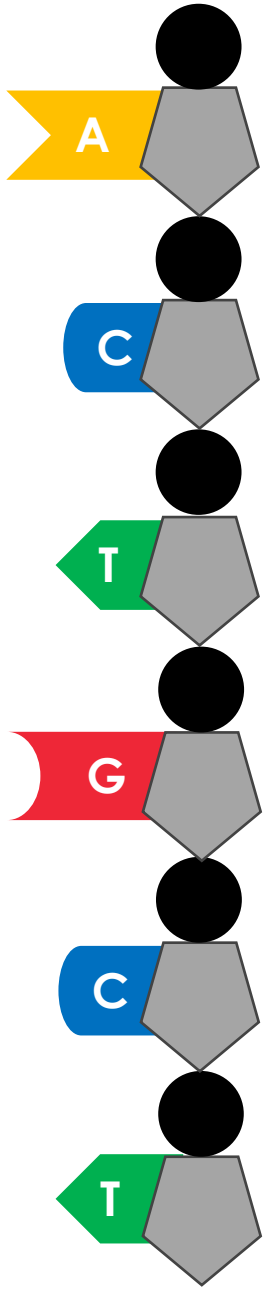


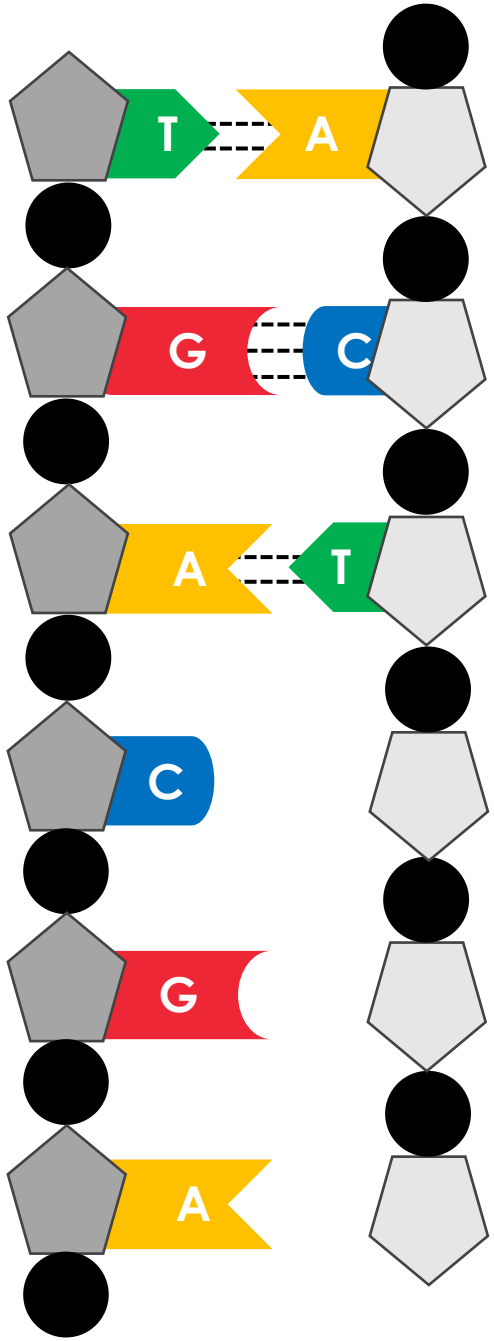


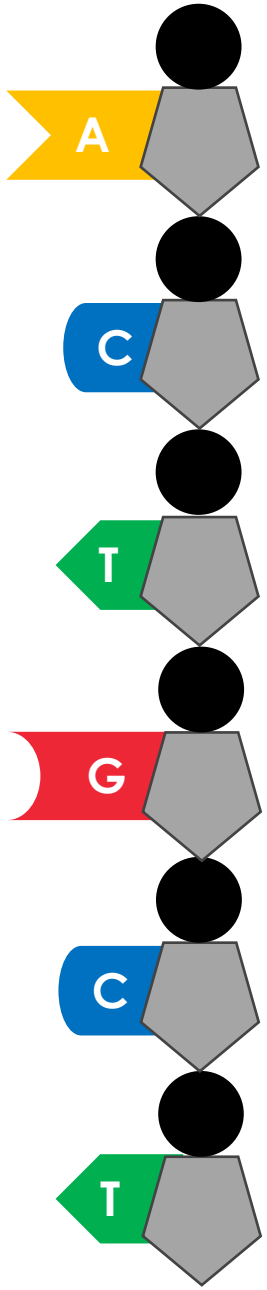


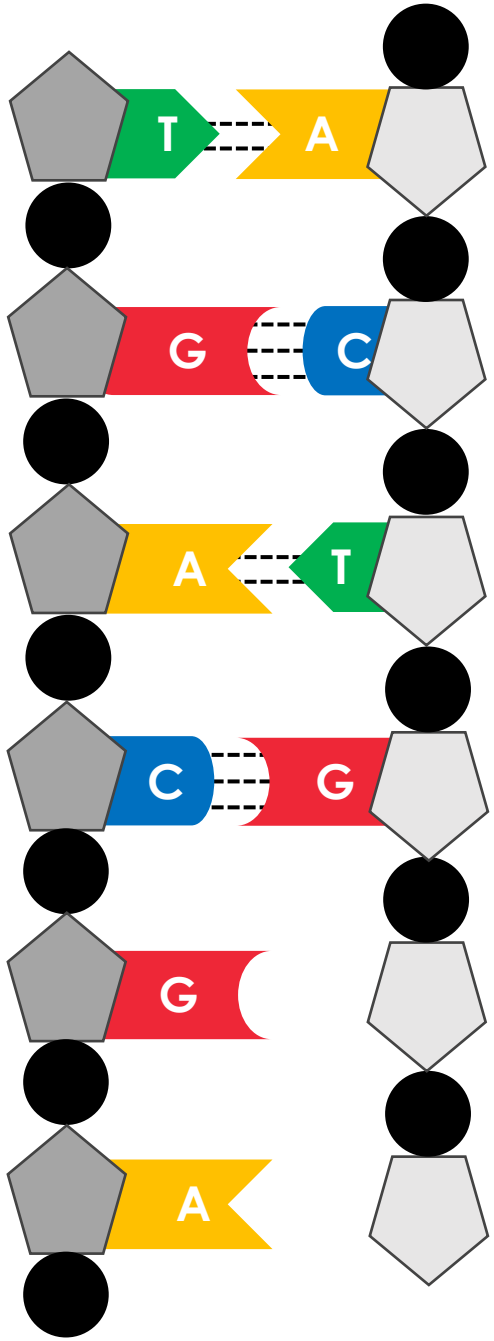


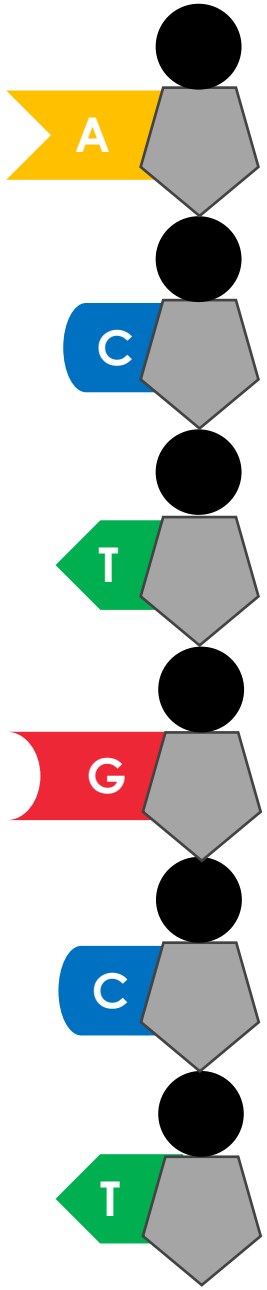


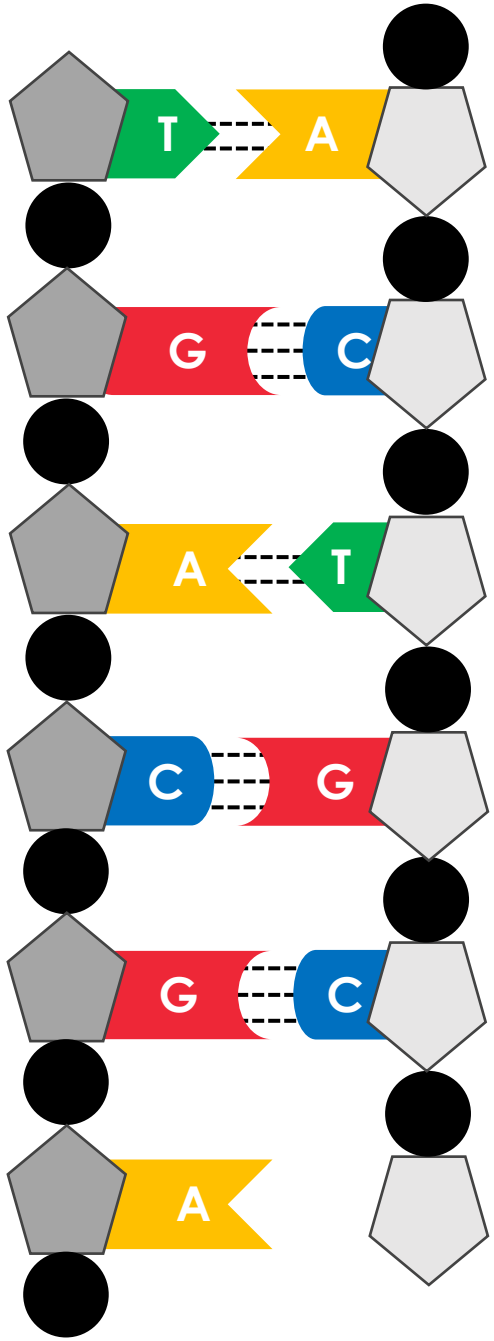


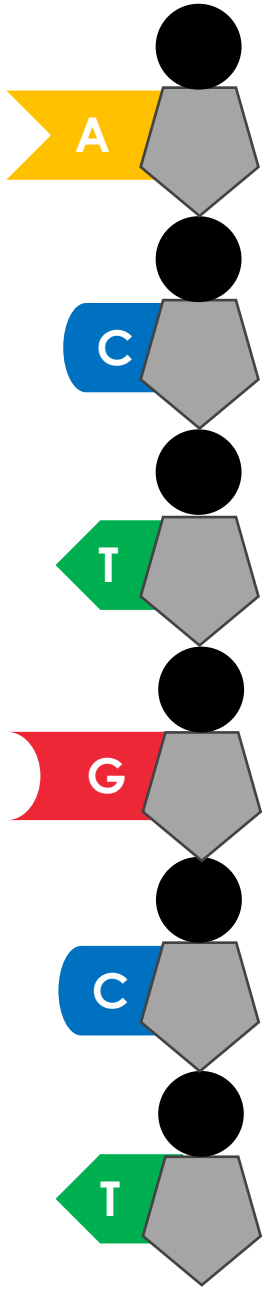


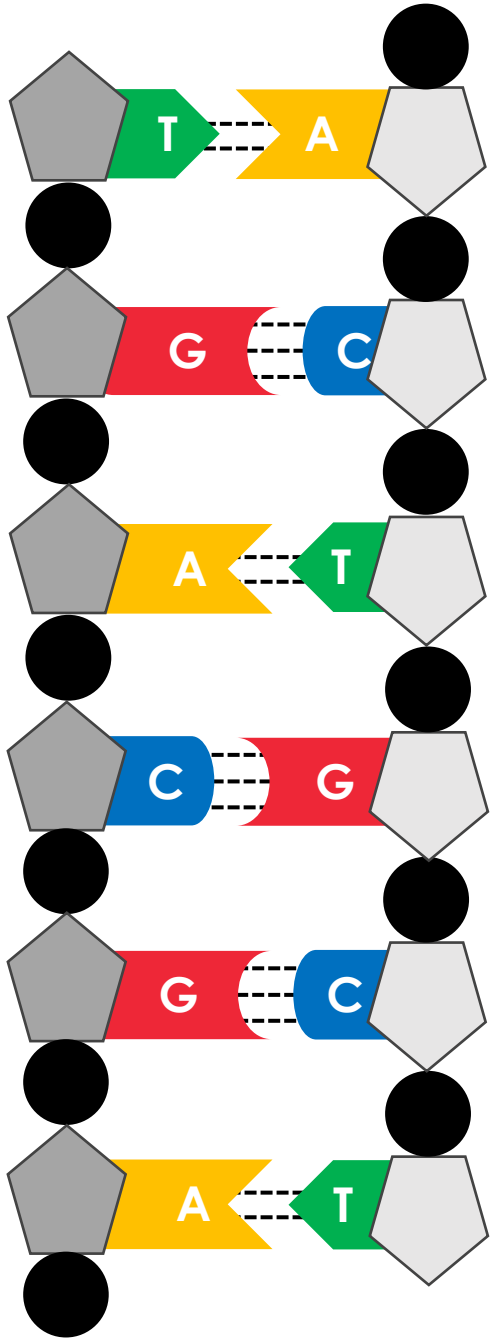


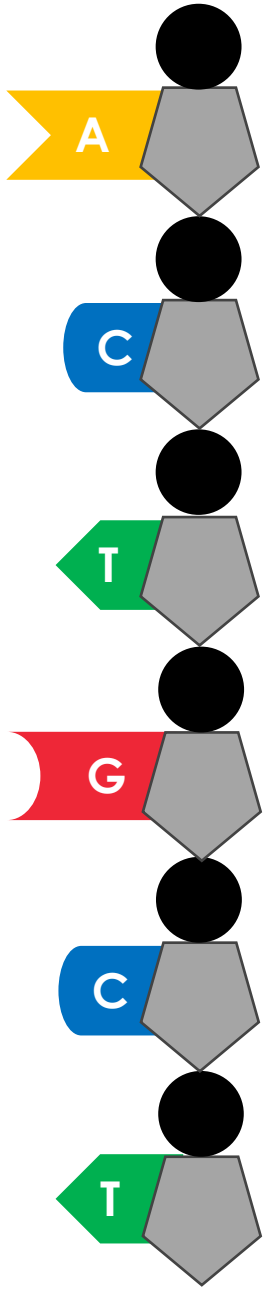


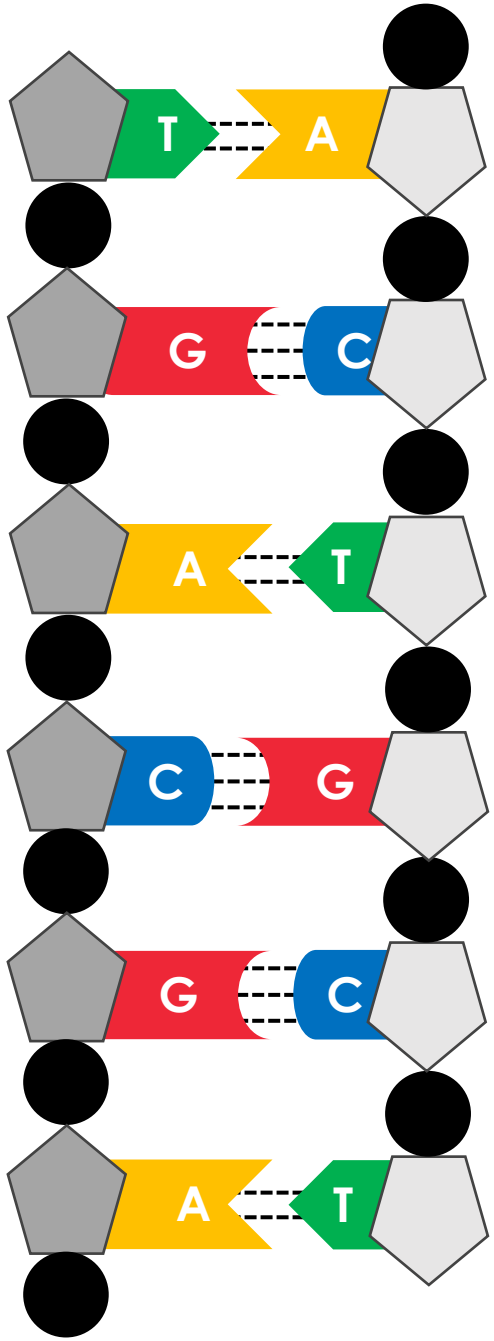


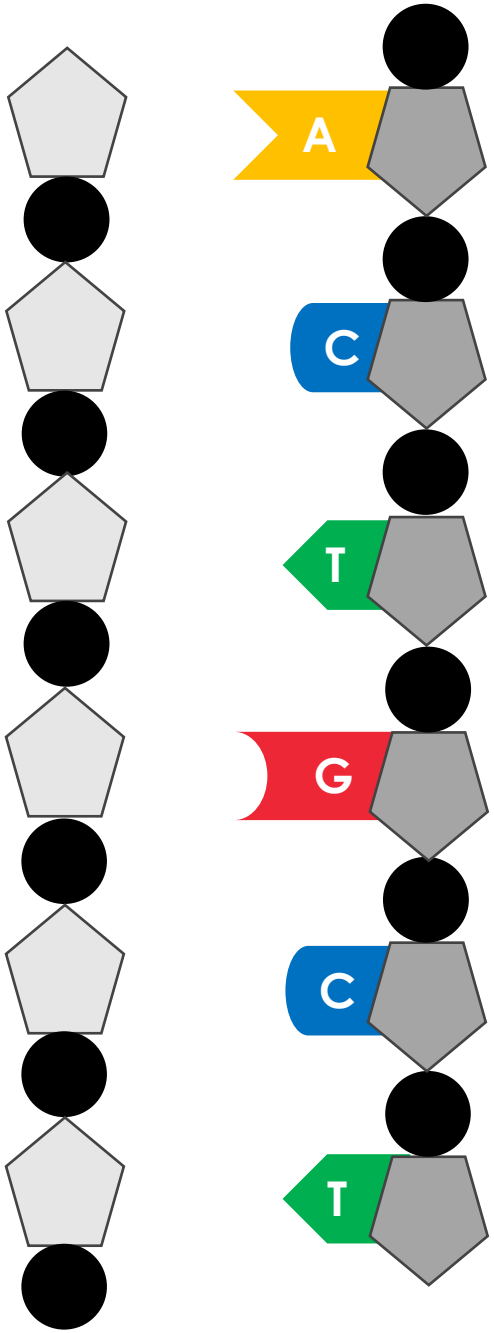


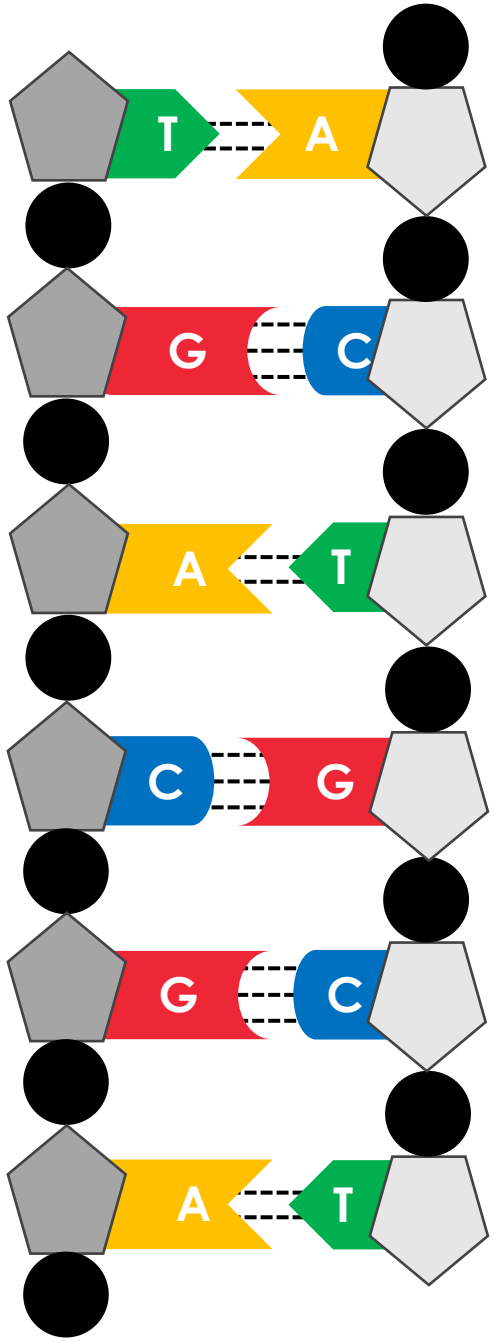


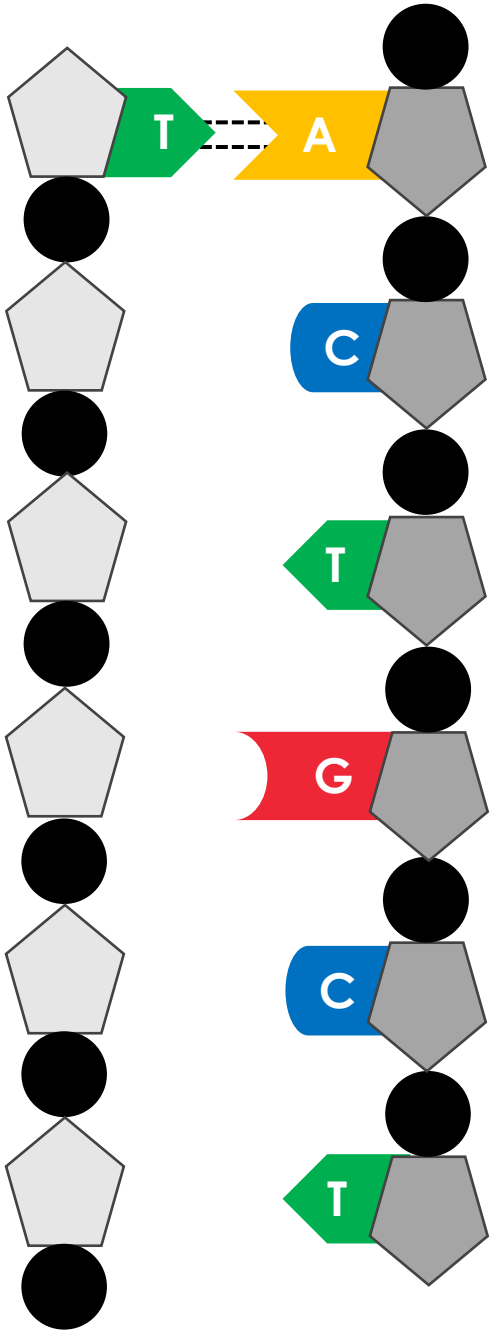


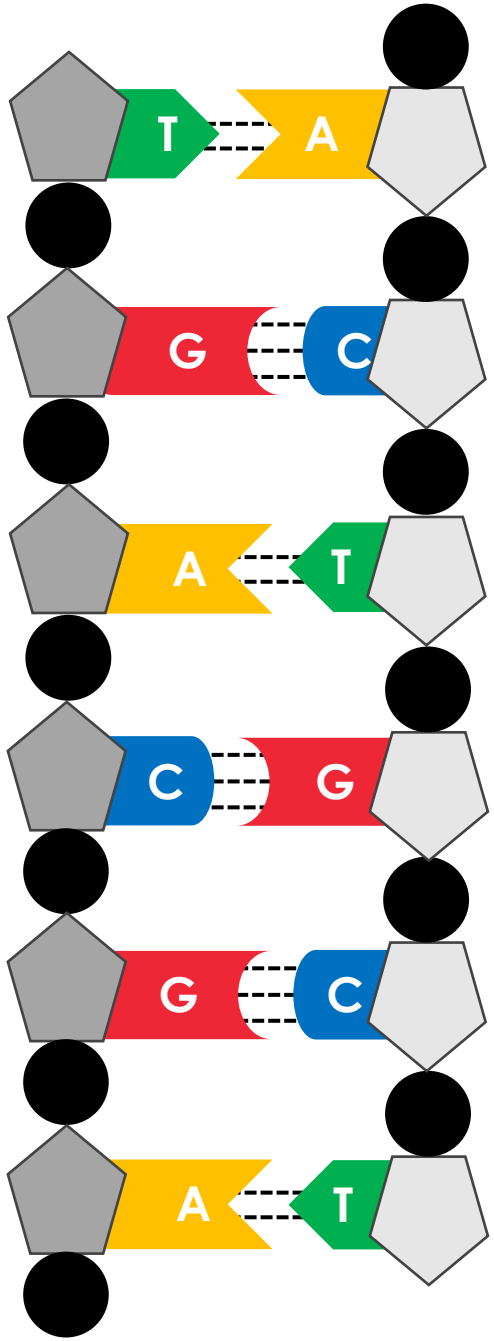


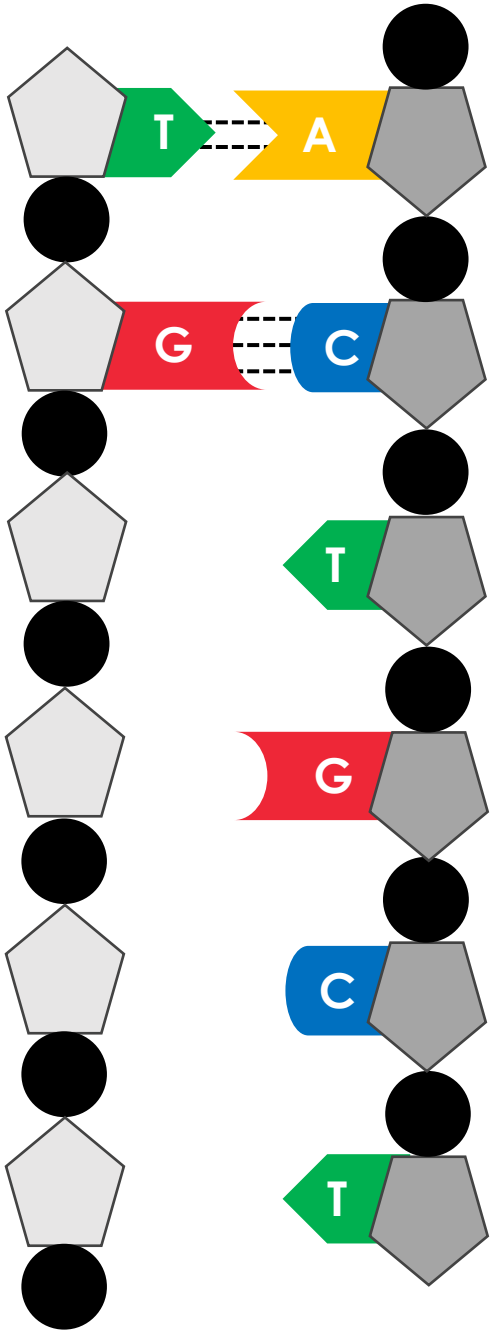


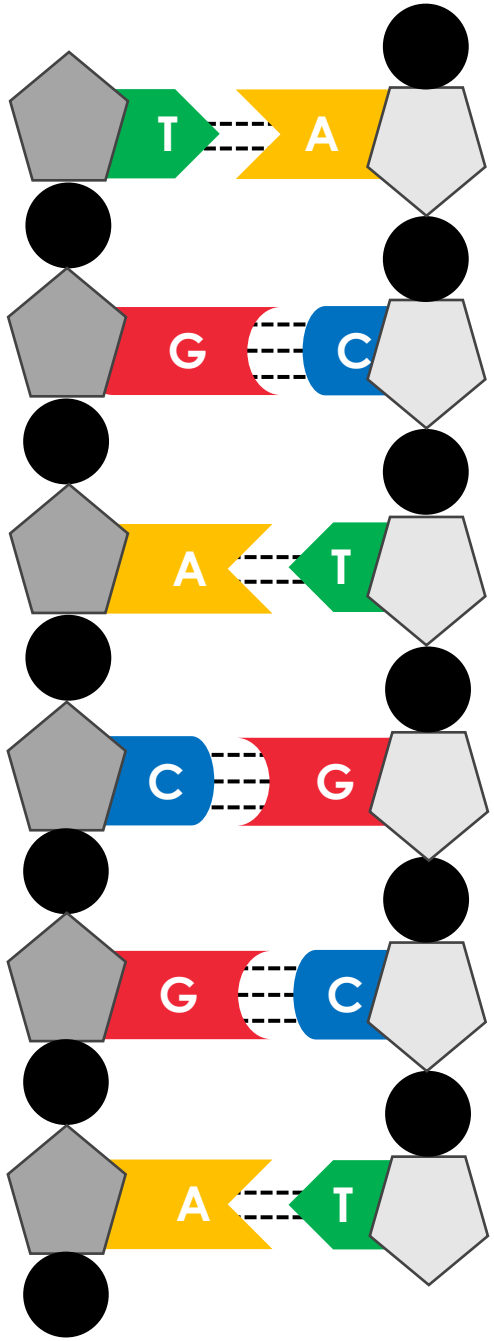


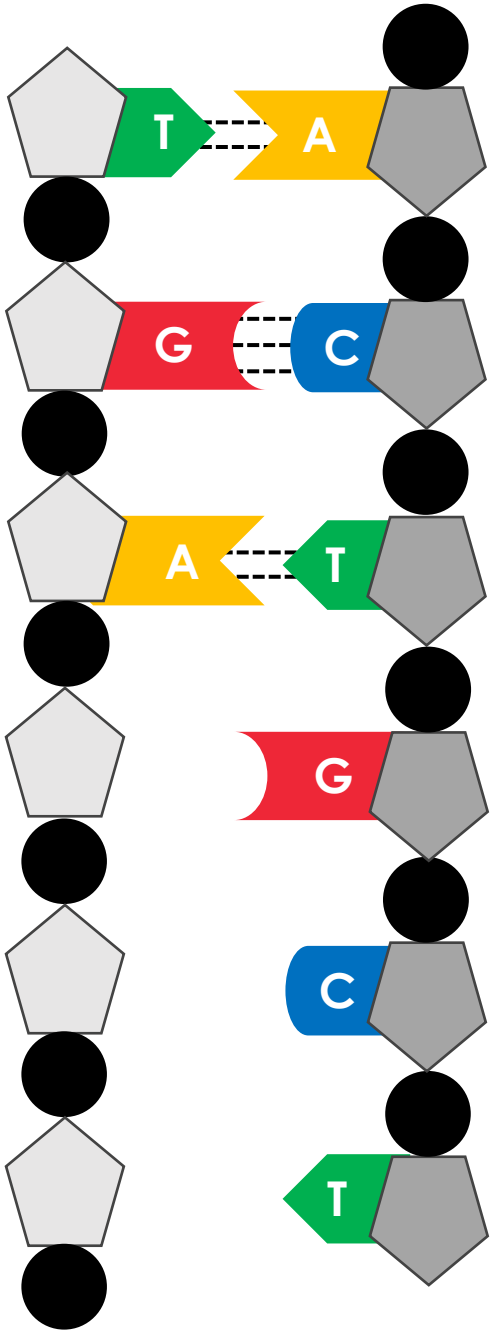


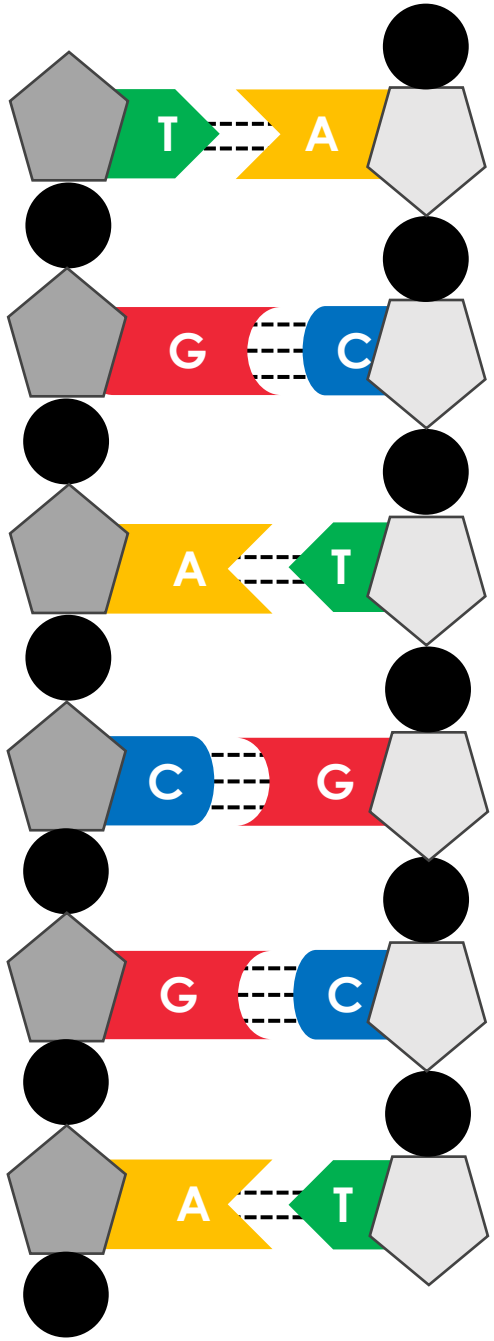


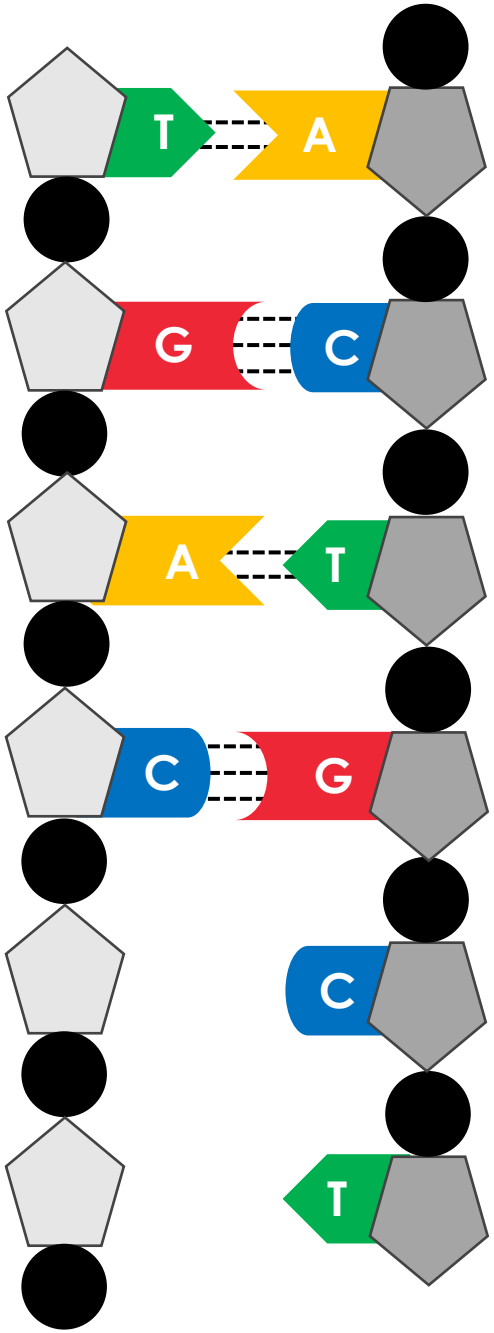


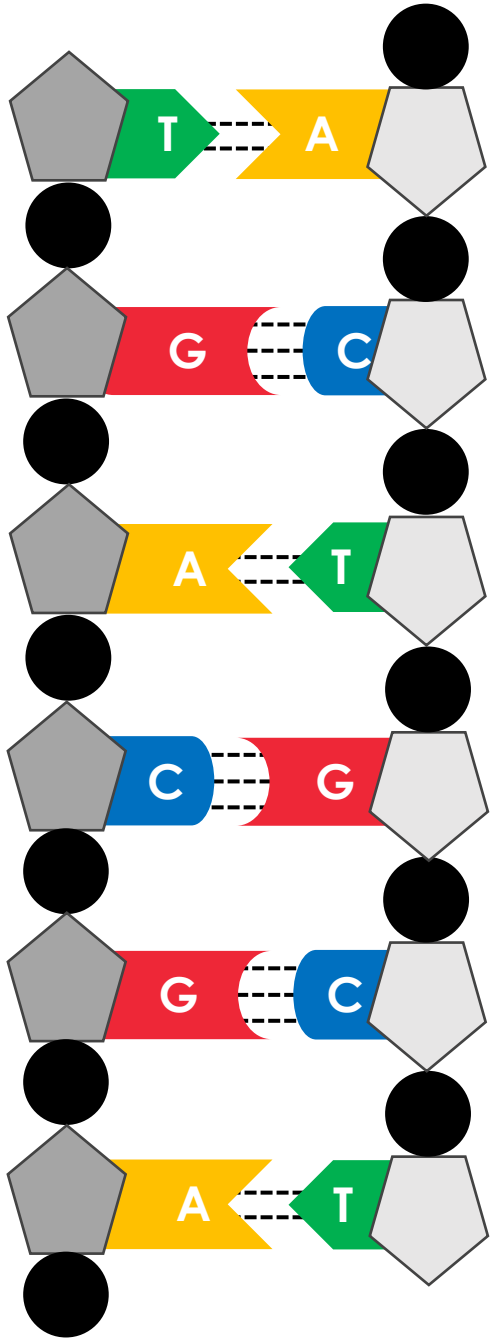


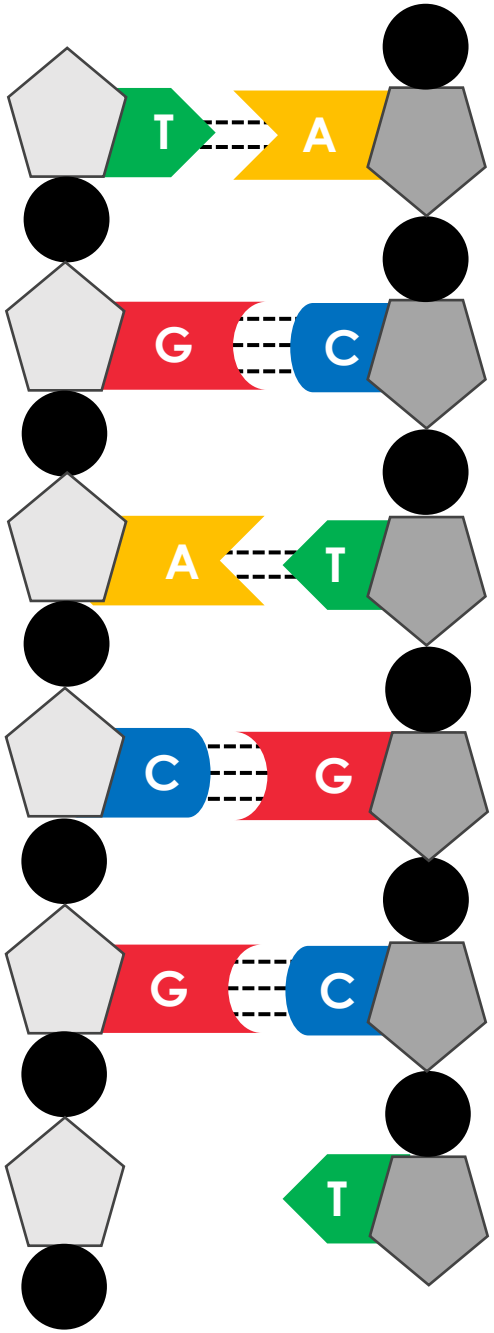


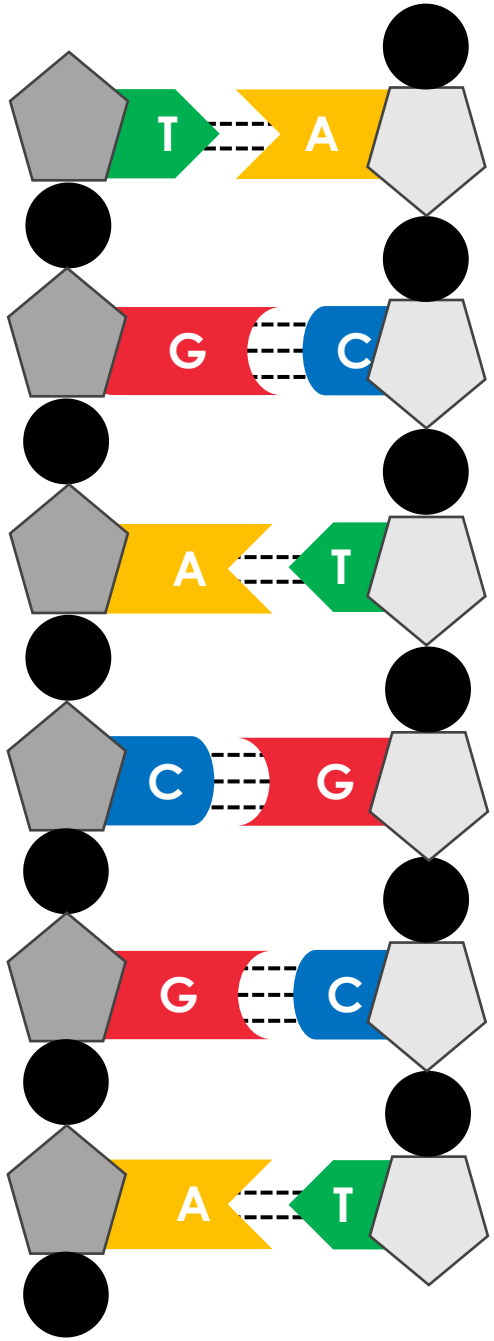


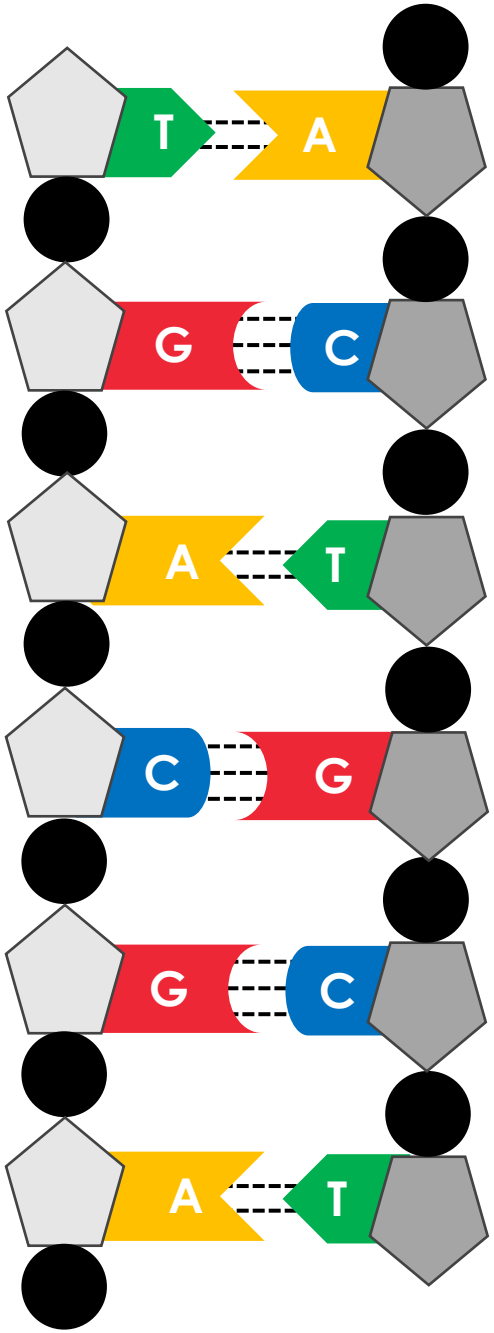


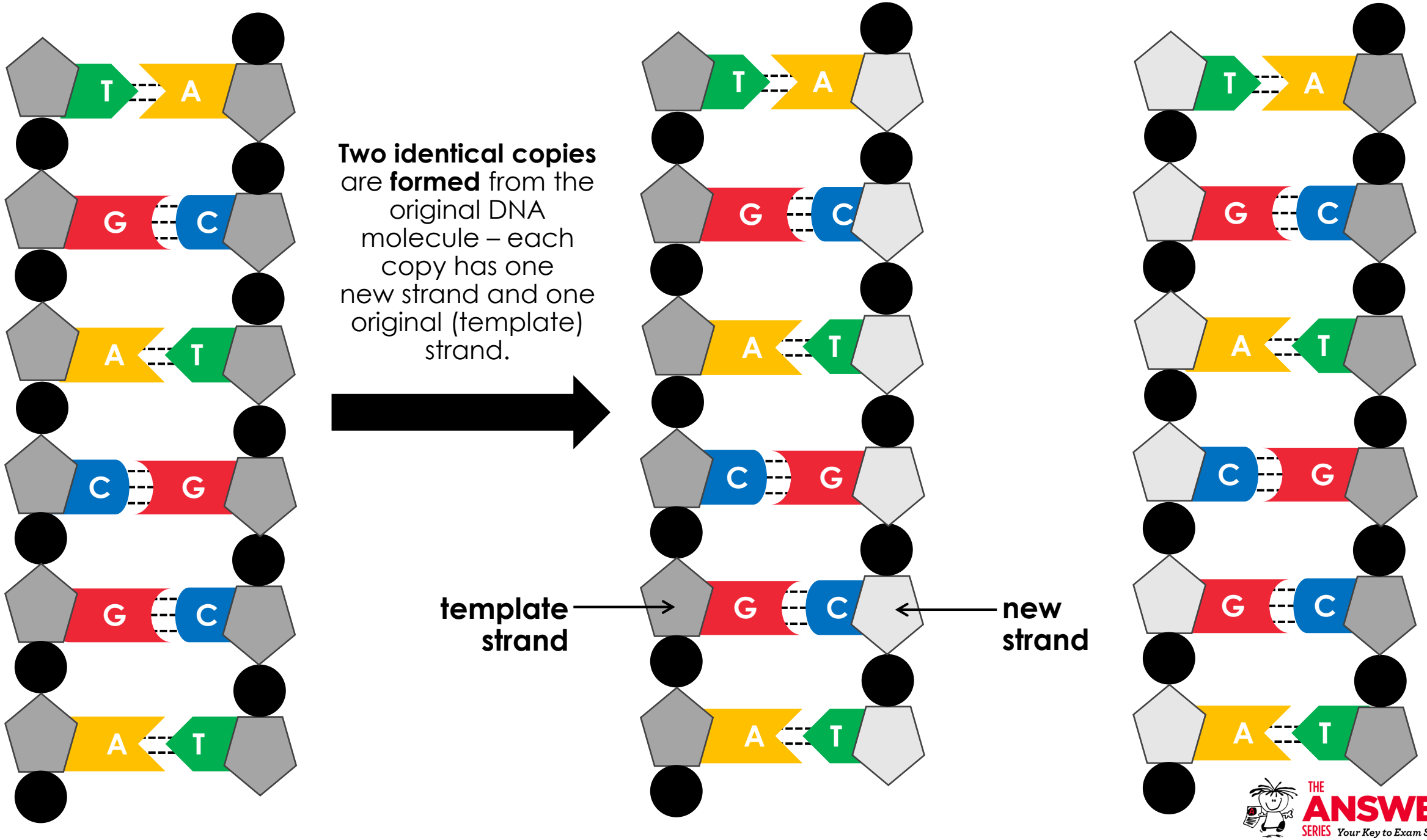






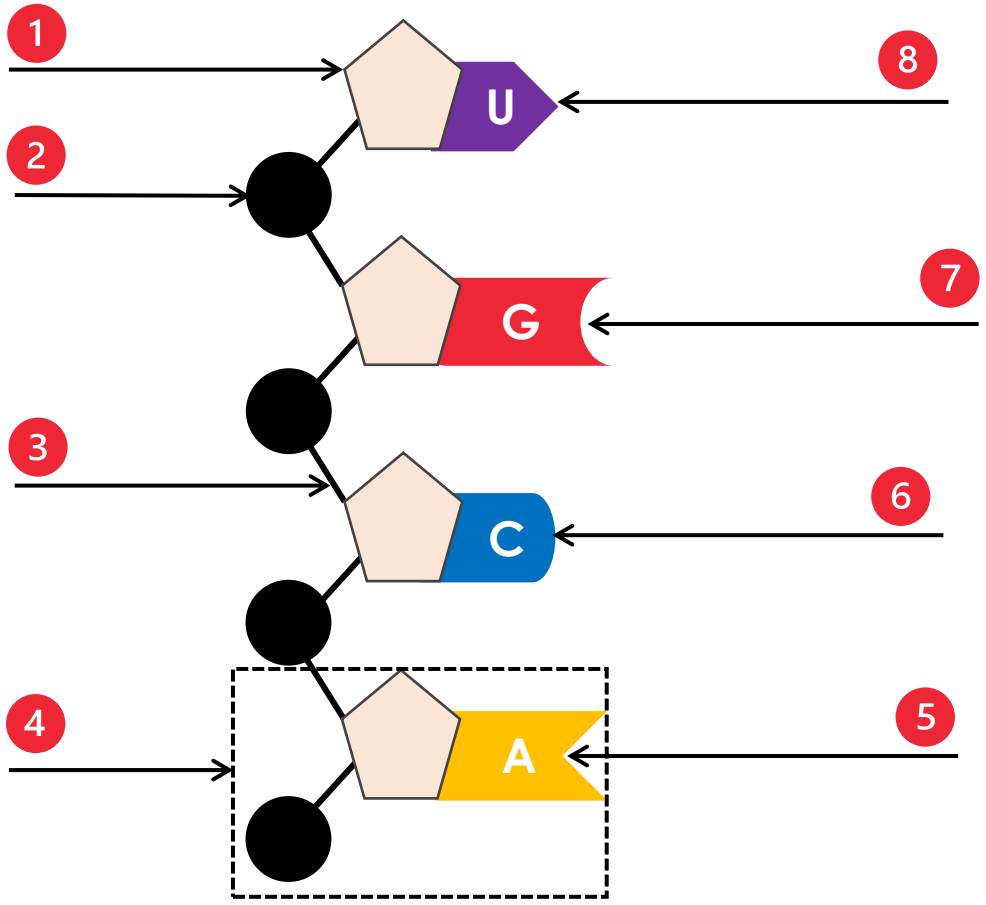




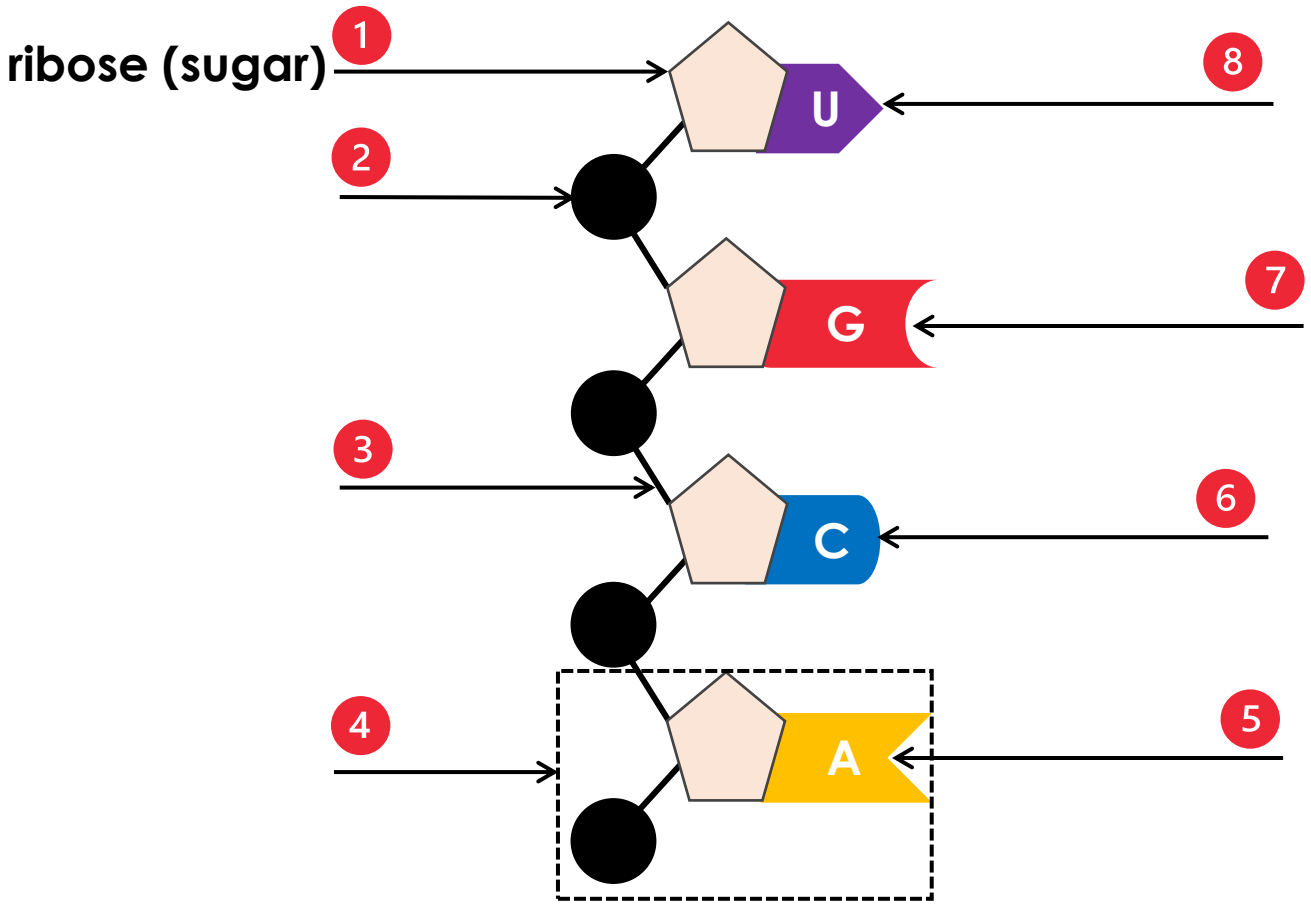


RNA STRUCTURE

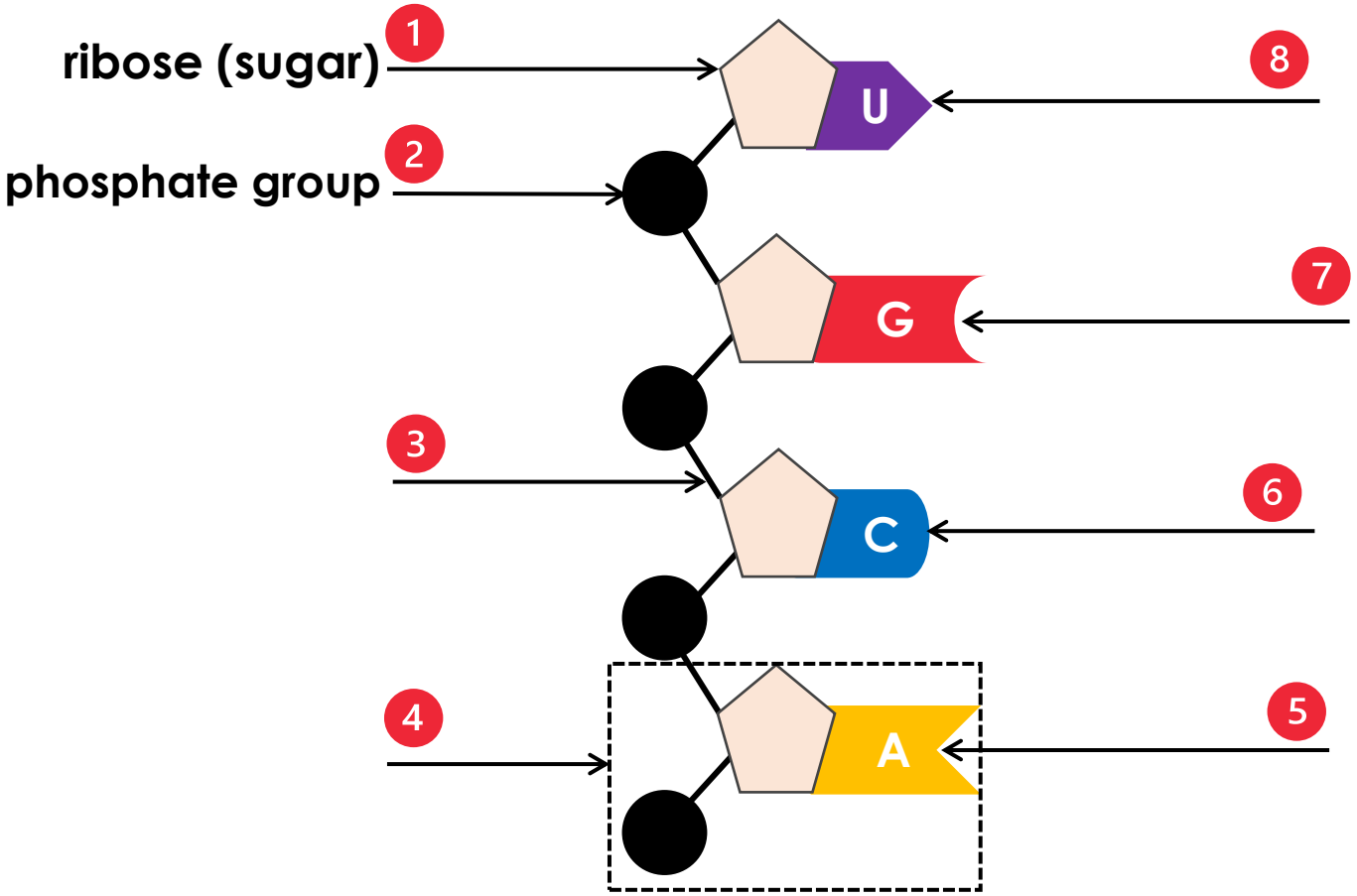
Provide labels for the structure of RNA.



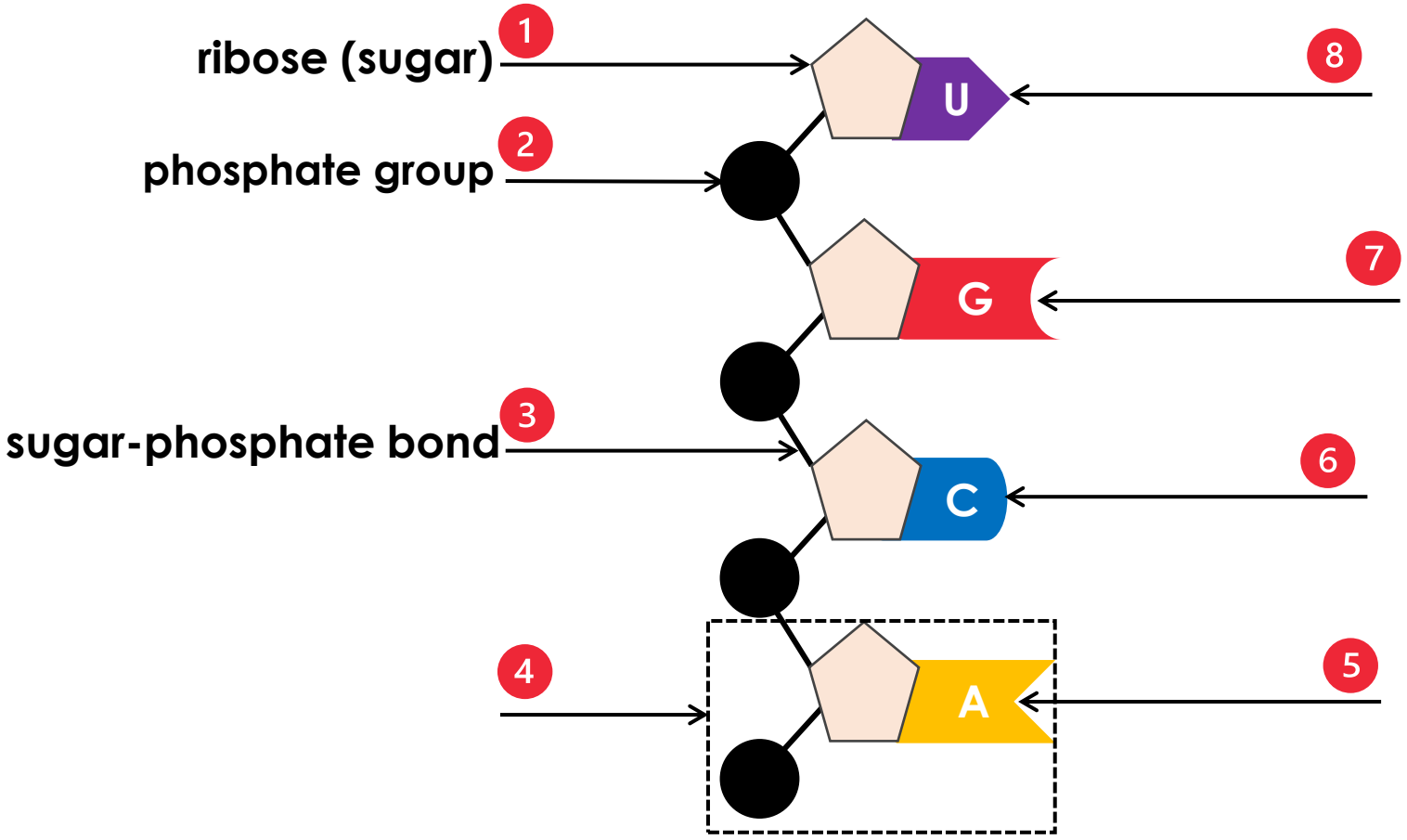
Provide labels for the structure of RNA.



Provide labels for the structure of RNA.



Provide labels for the structure of RNA.



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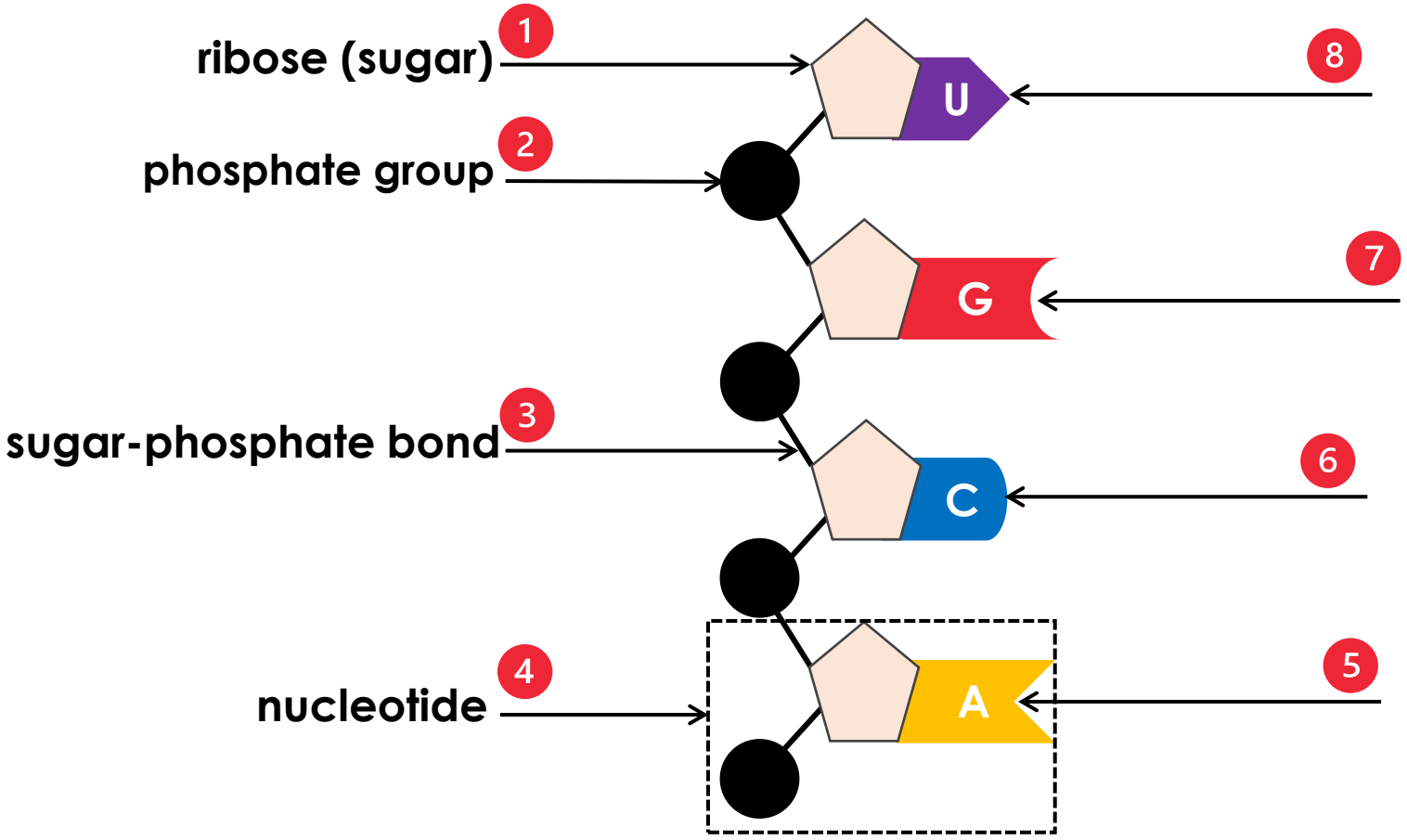

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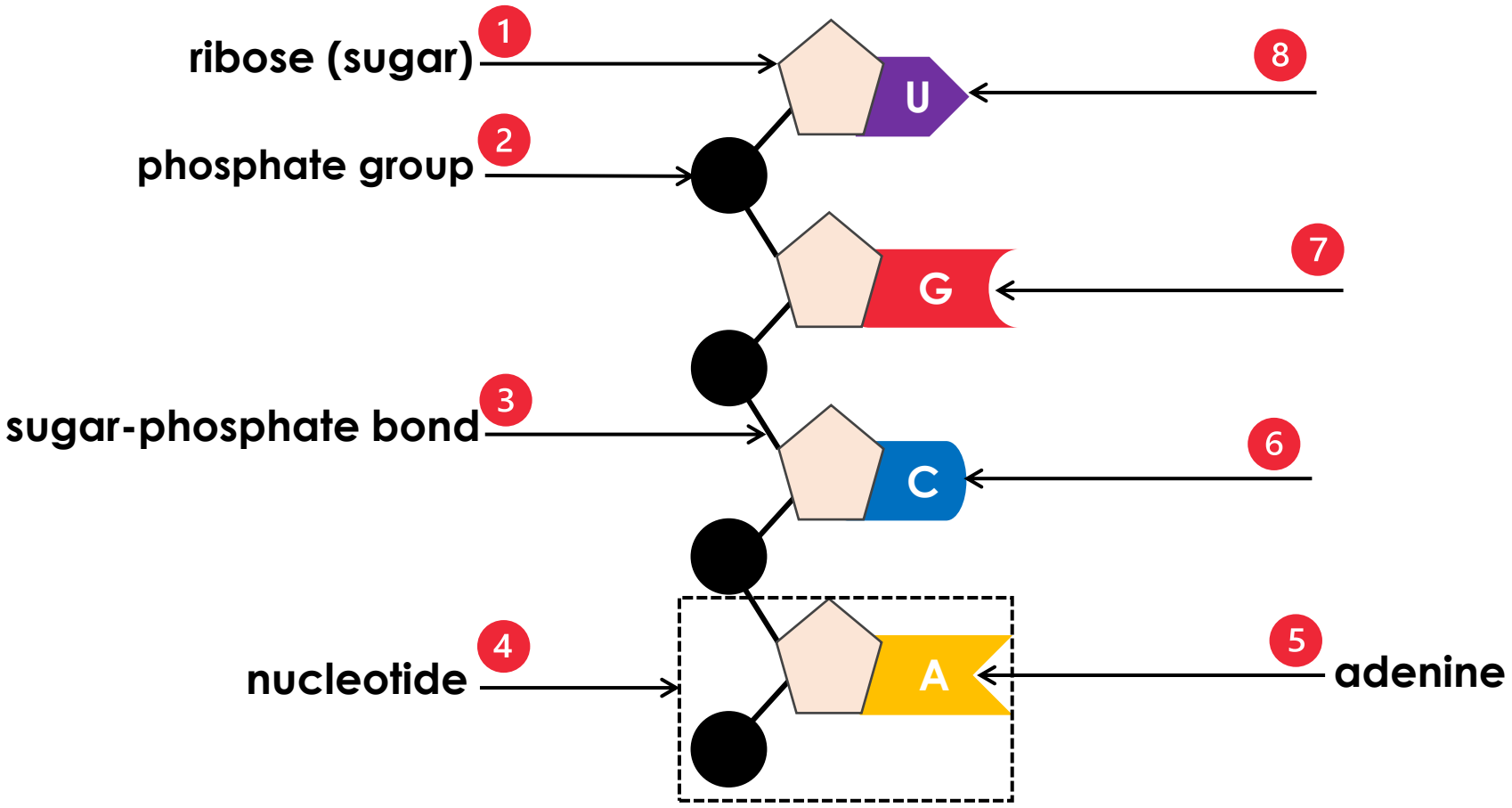

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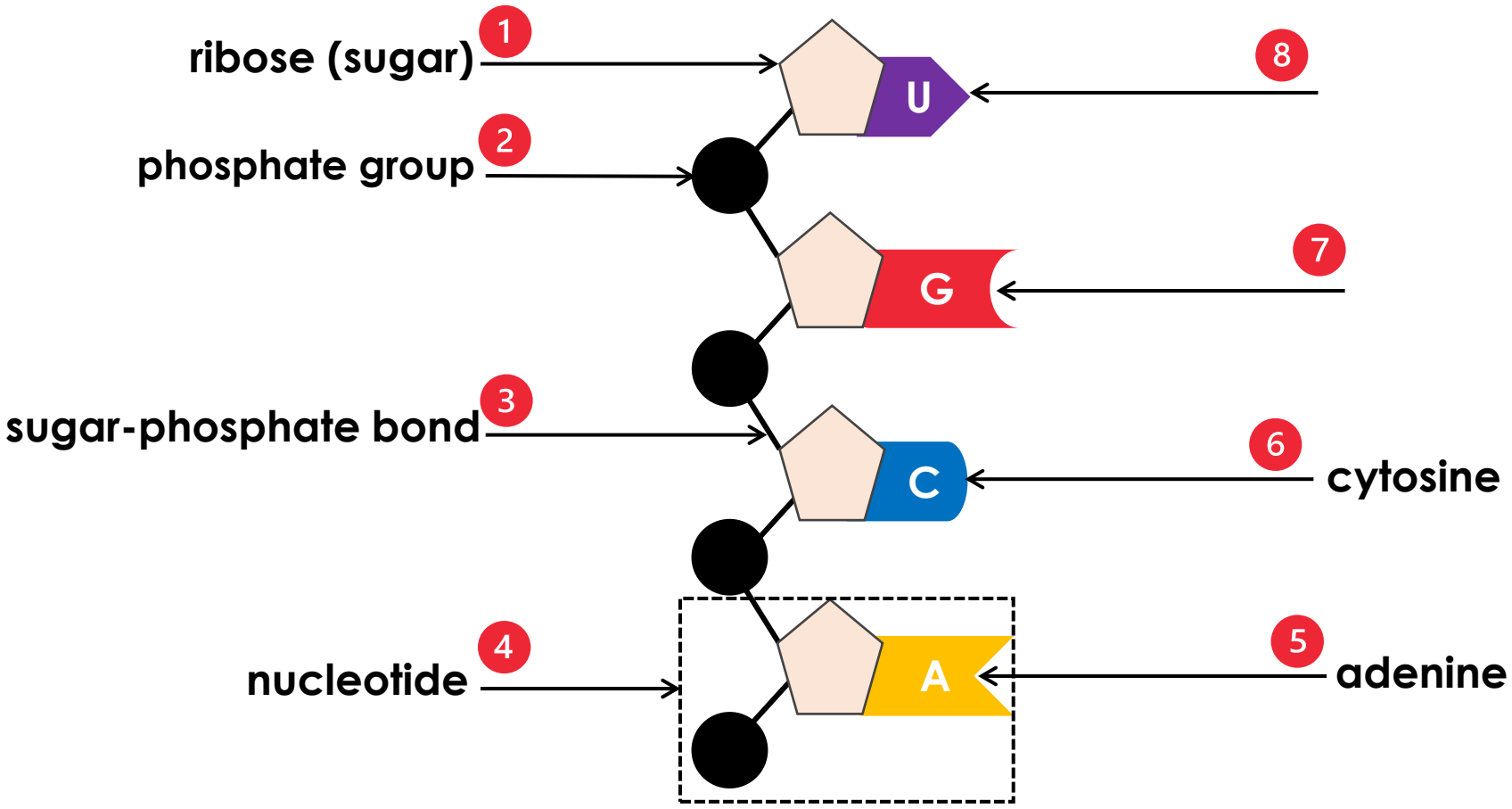

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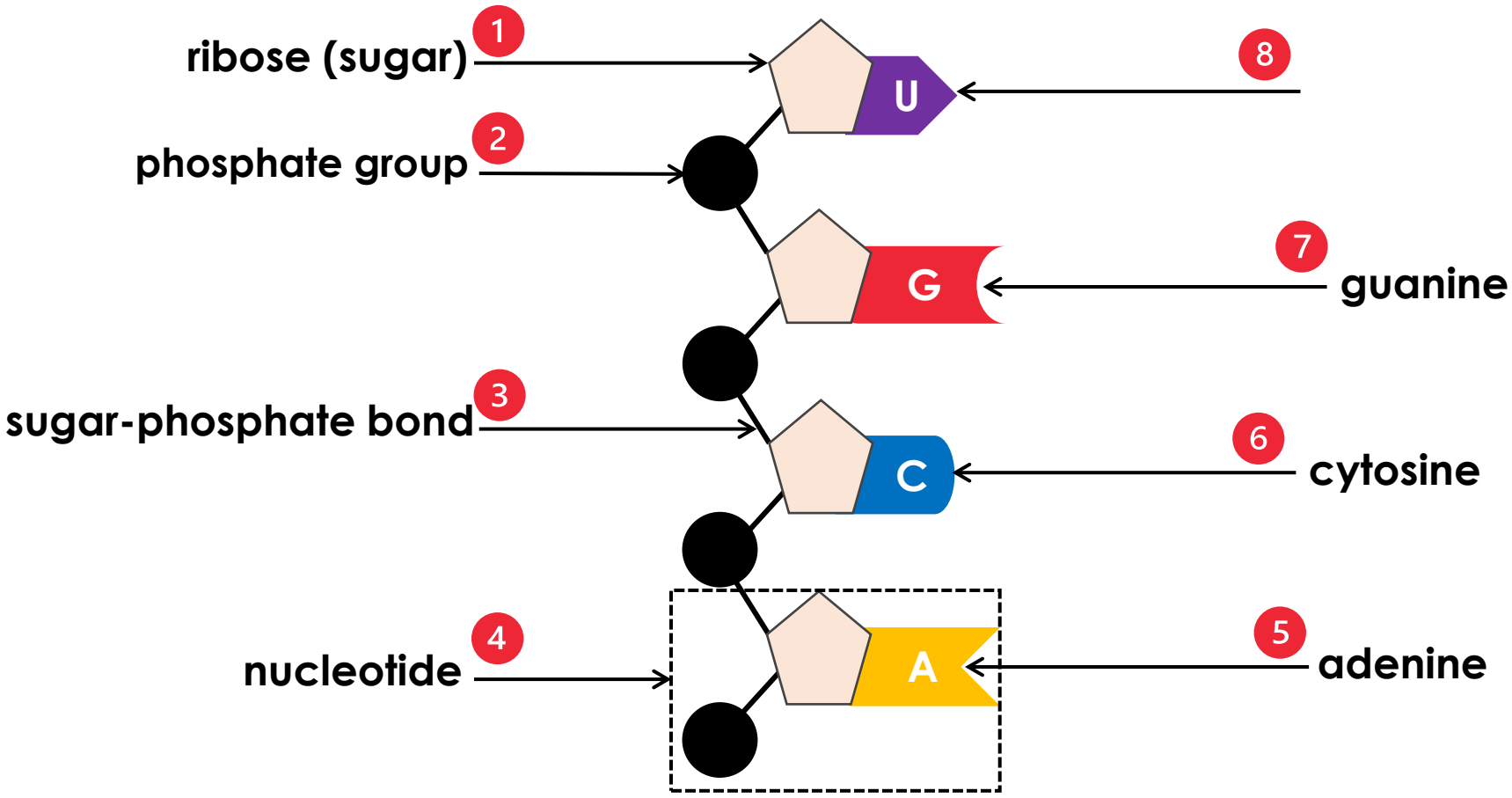

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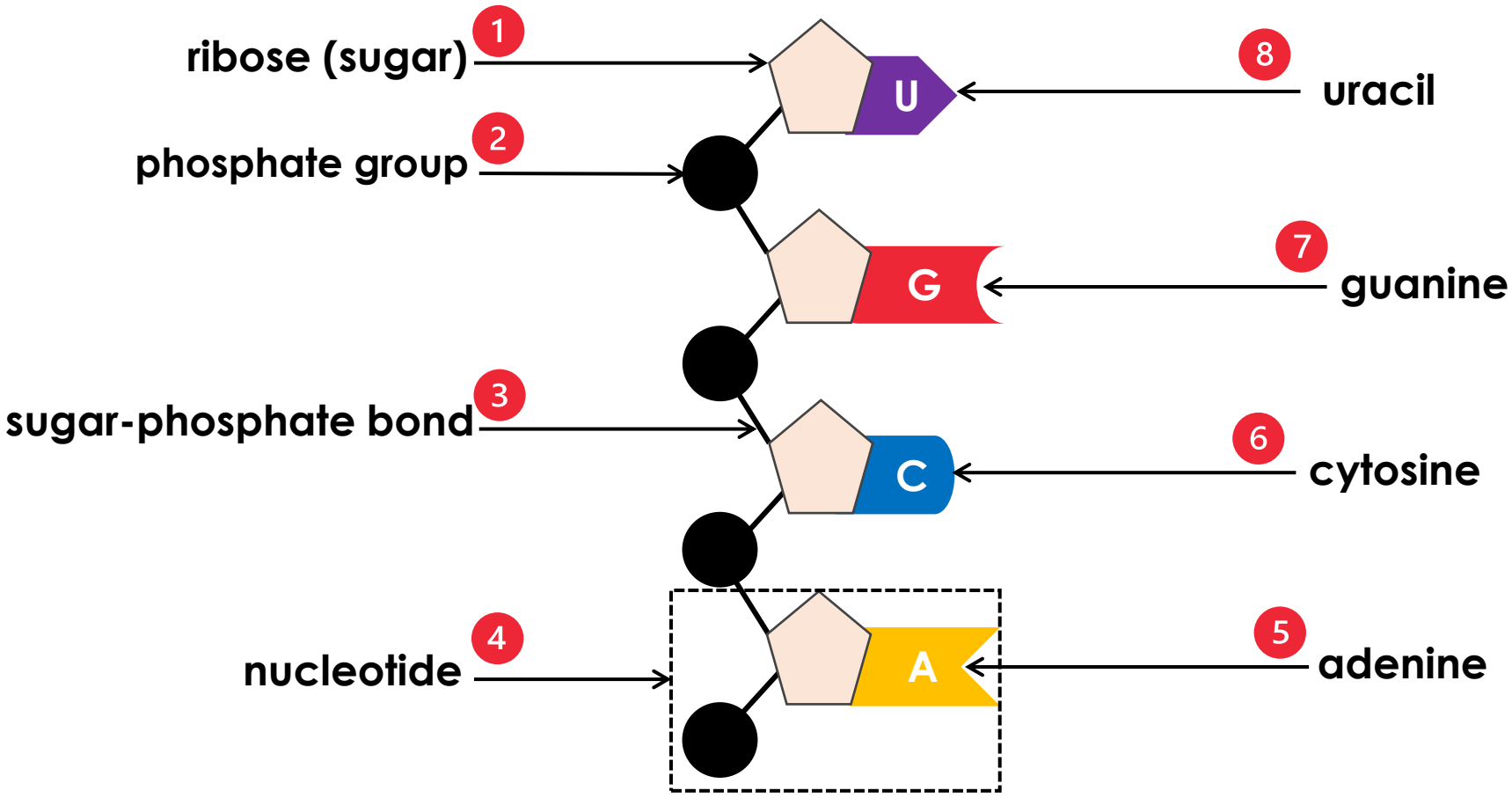
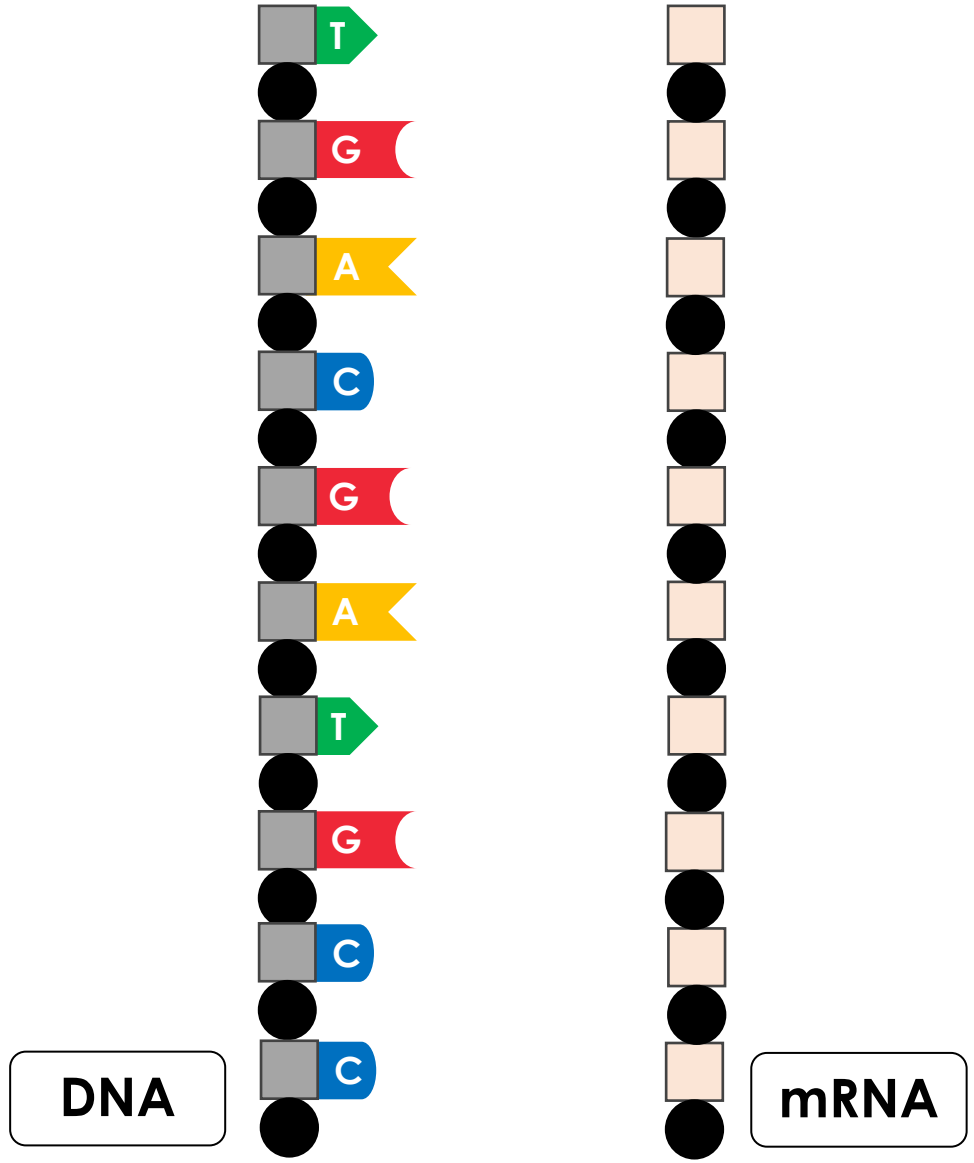
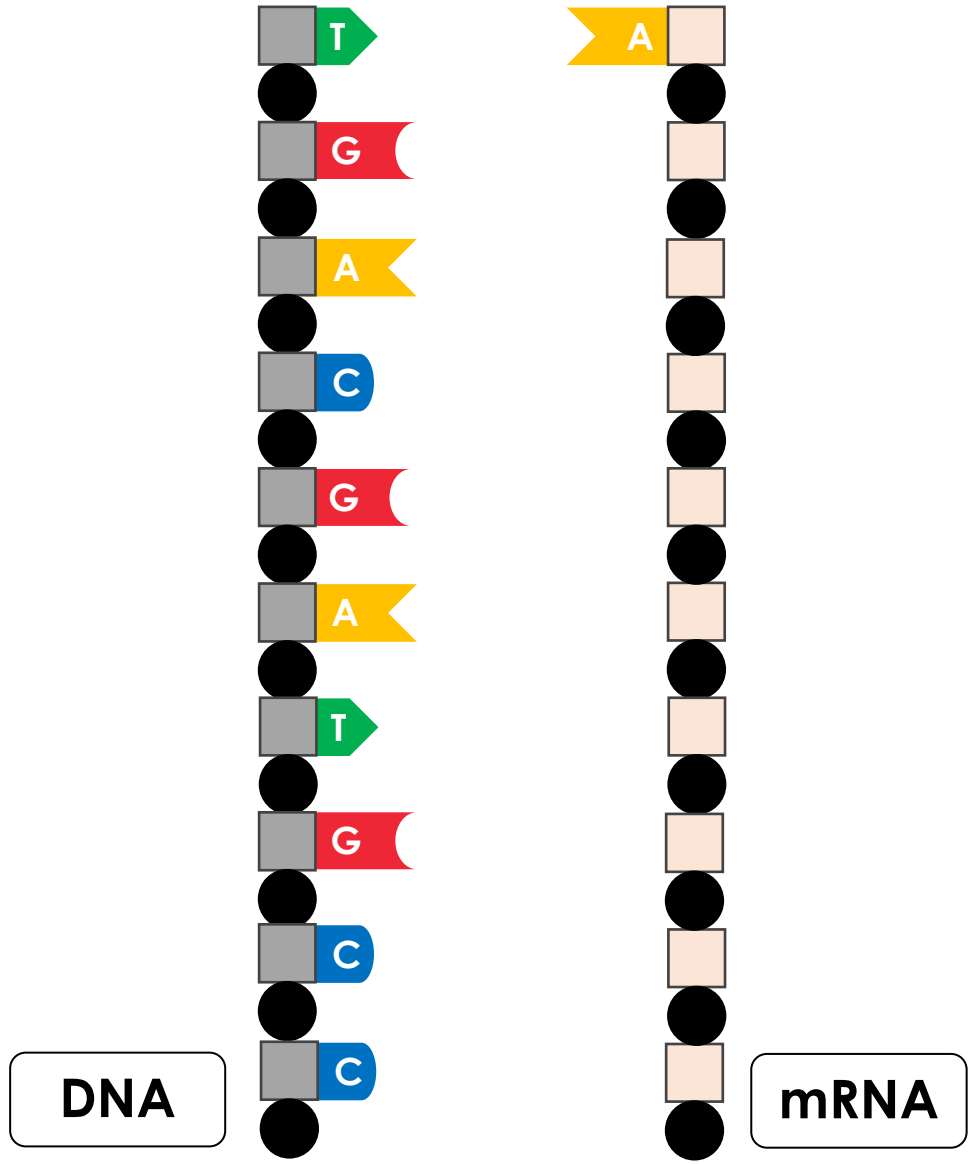


TRANSCRIPTION

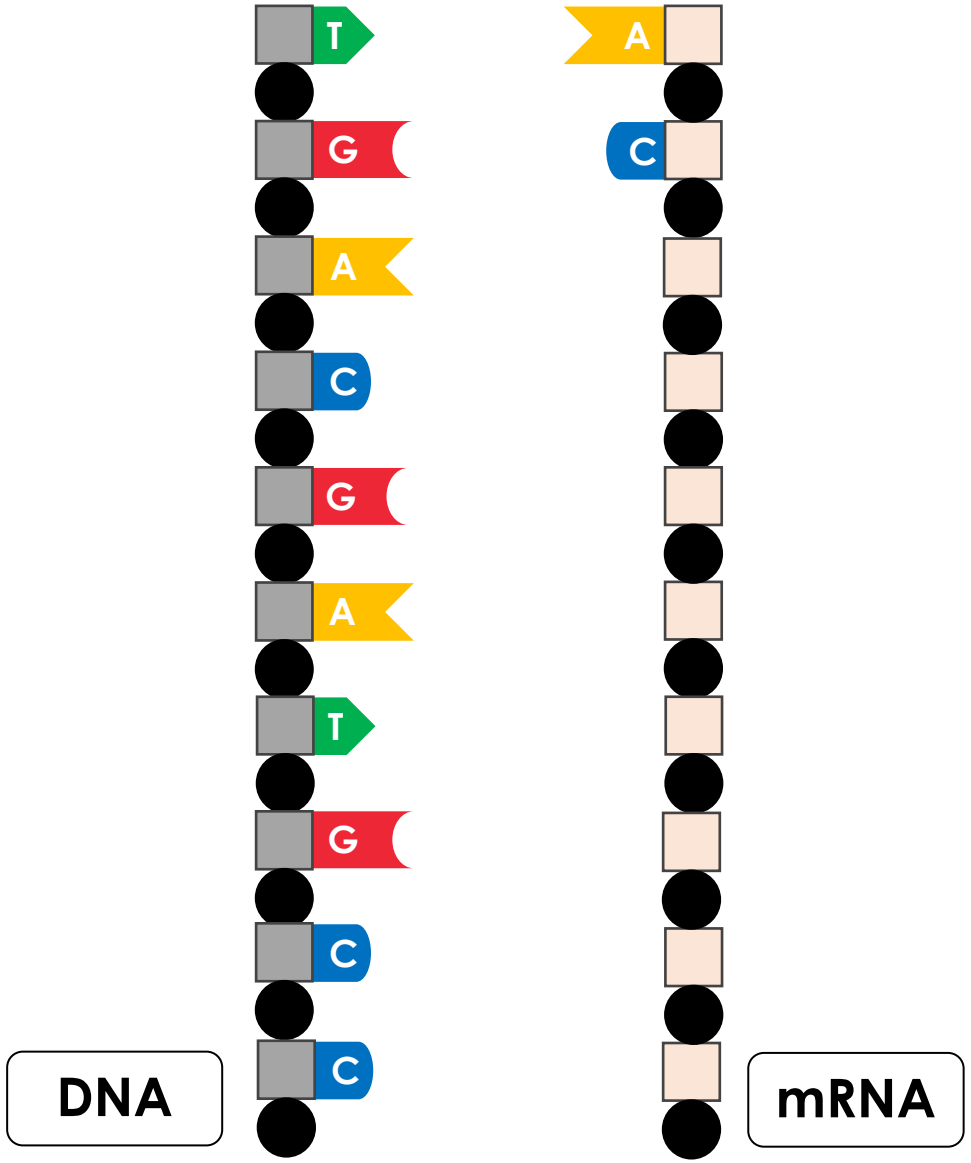
Transcribe the DNA strand into a mRNA strand.



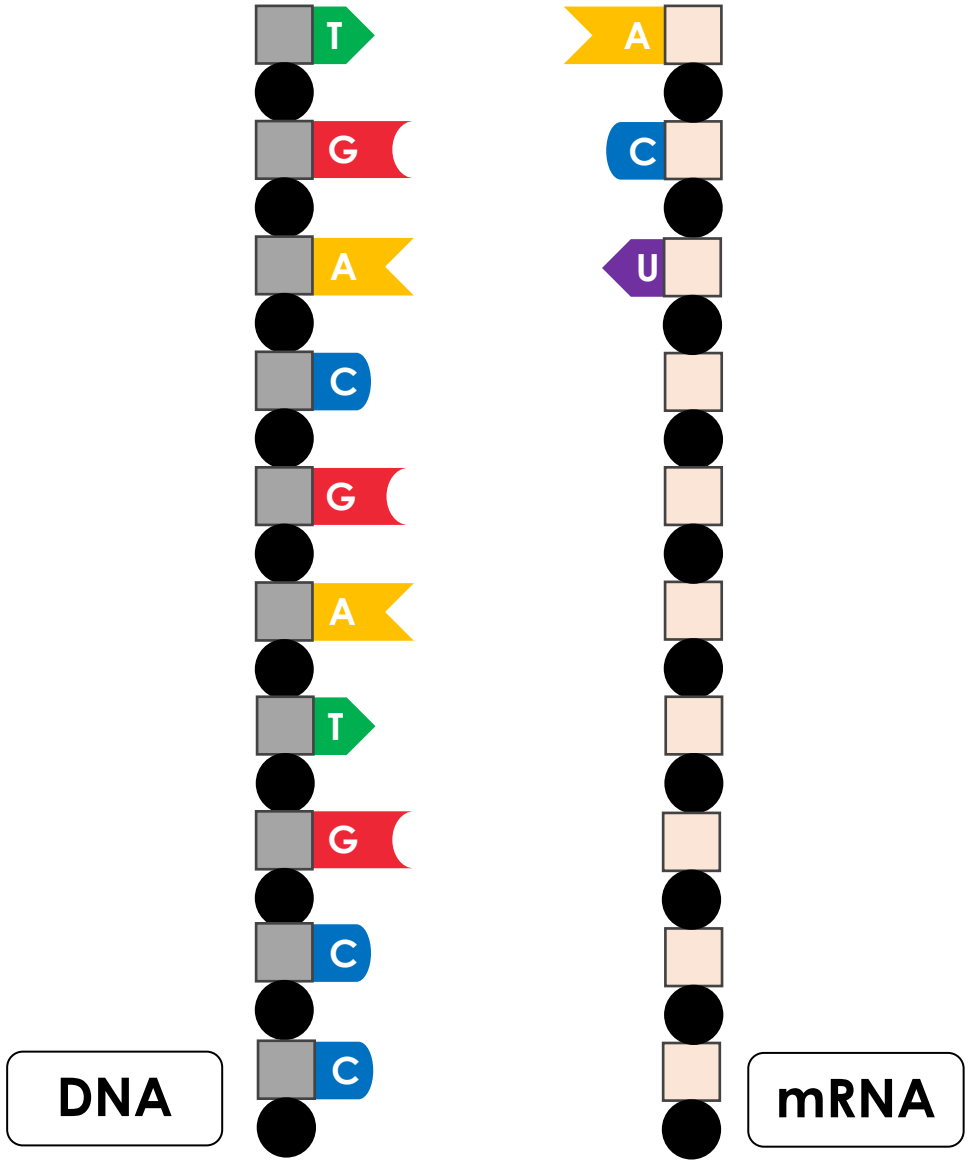
Transcribe the DNA strand into a mRNA strand.



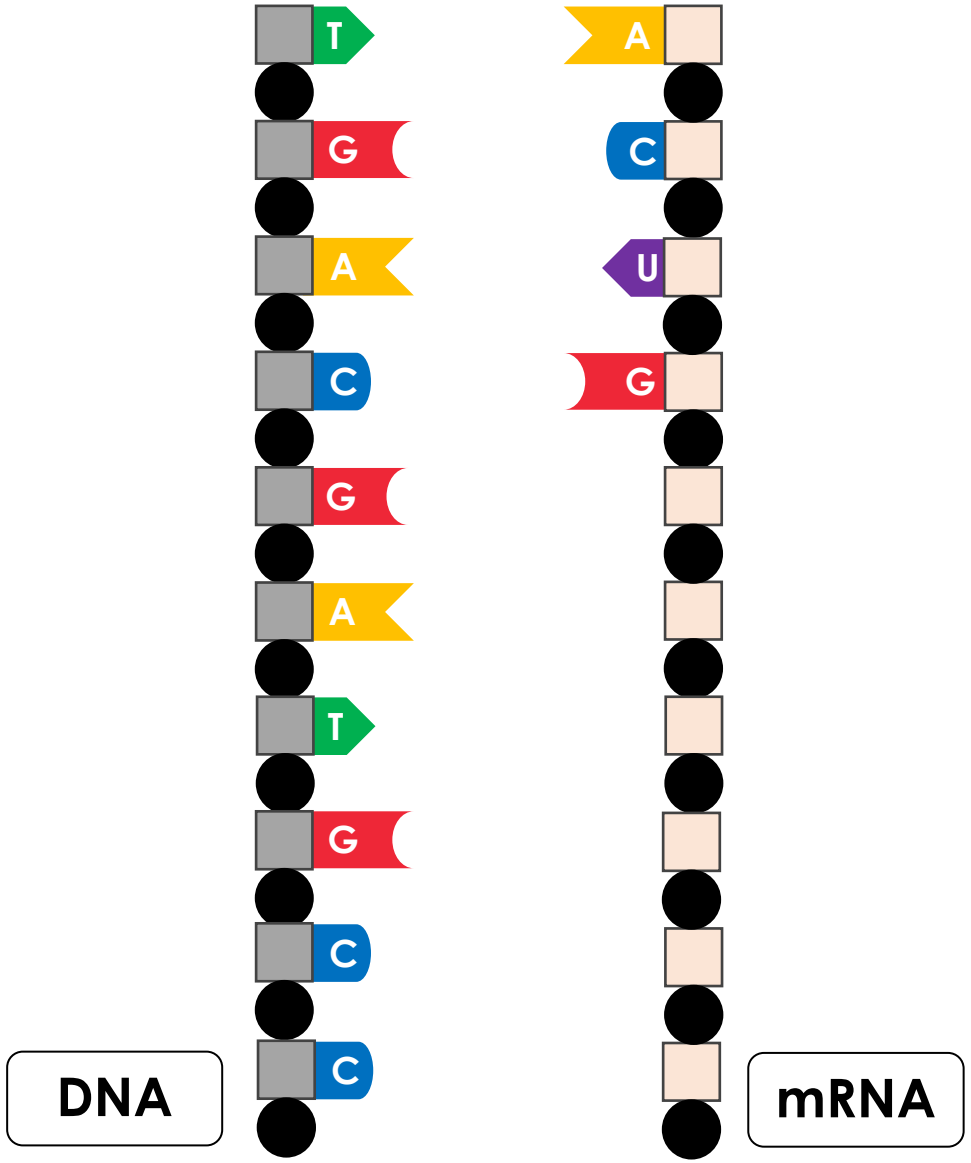
Transcribe the DNA strand into a mRNA strand.



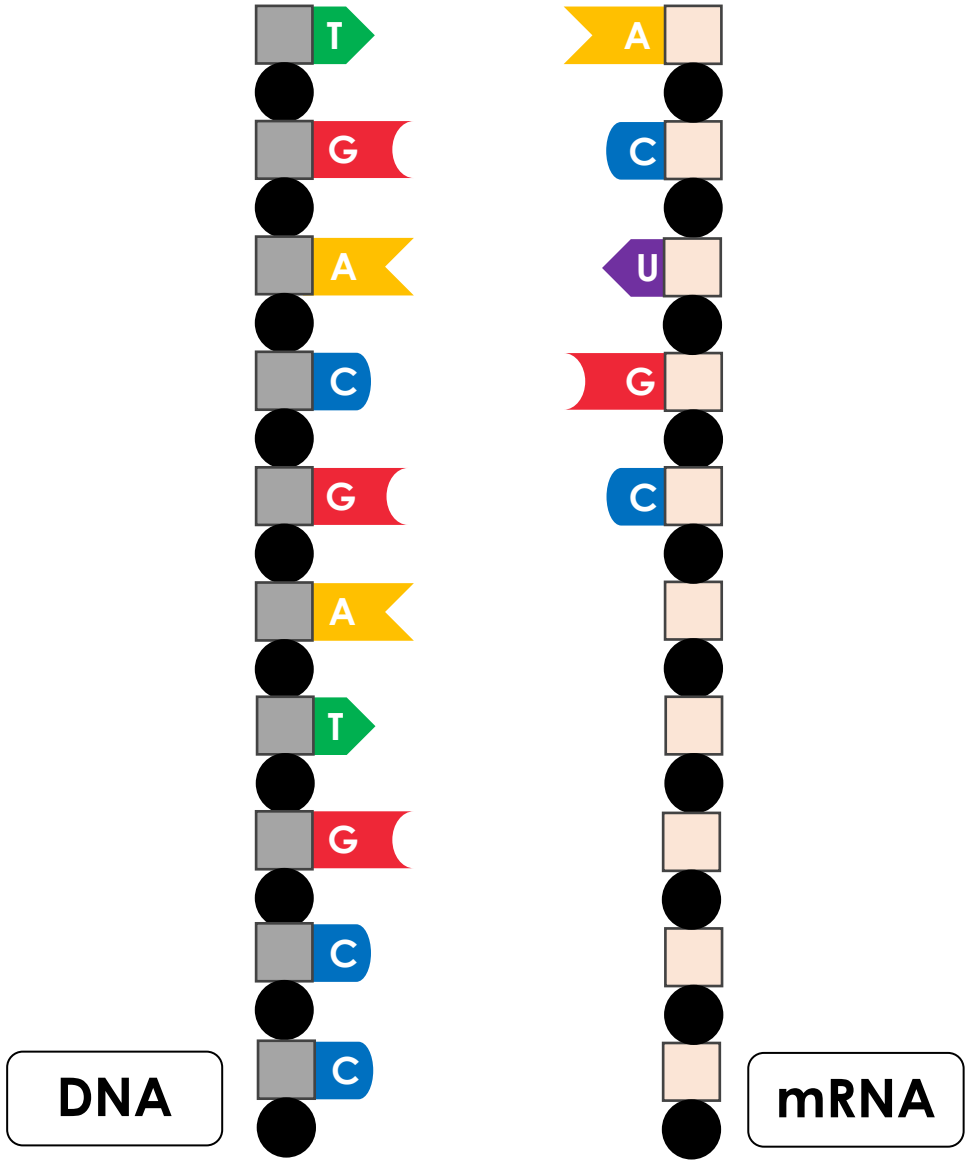
Transcribe the DNA strand into a mRNA strand.



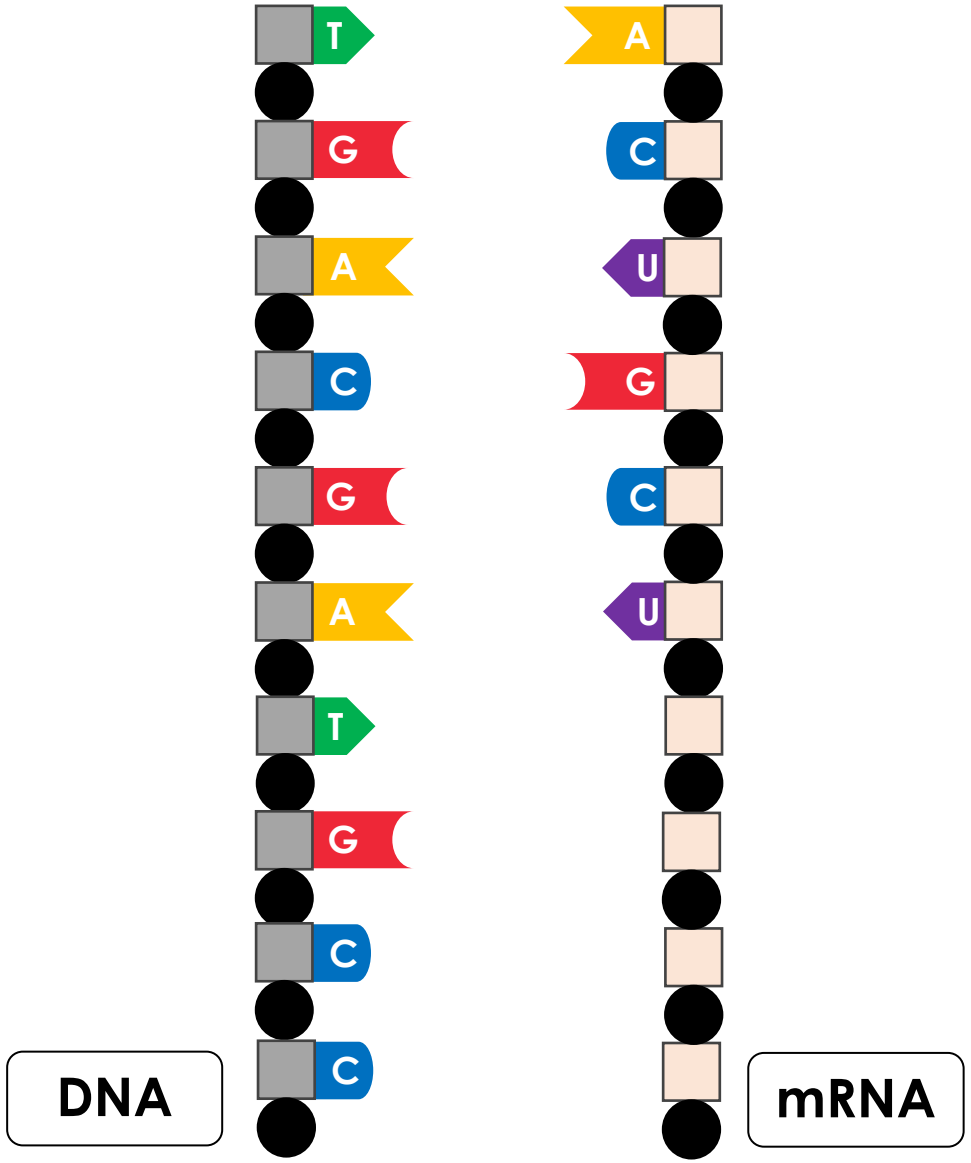
Transcribe the DNA strand into a mRNA strand.



Transcribe the DNA strand into a mRNA strand.



Transcribe the DNA strand into a mRNA strand.



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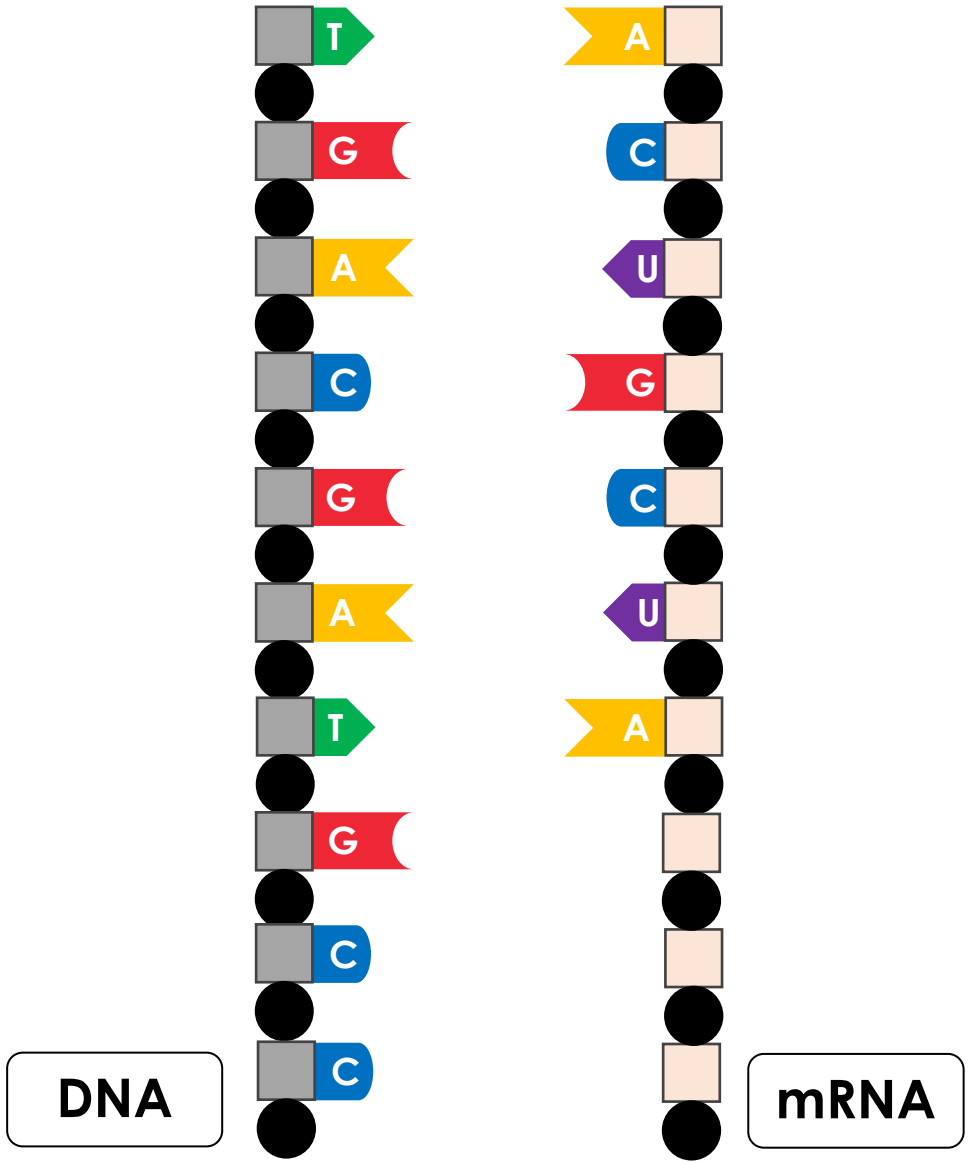

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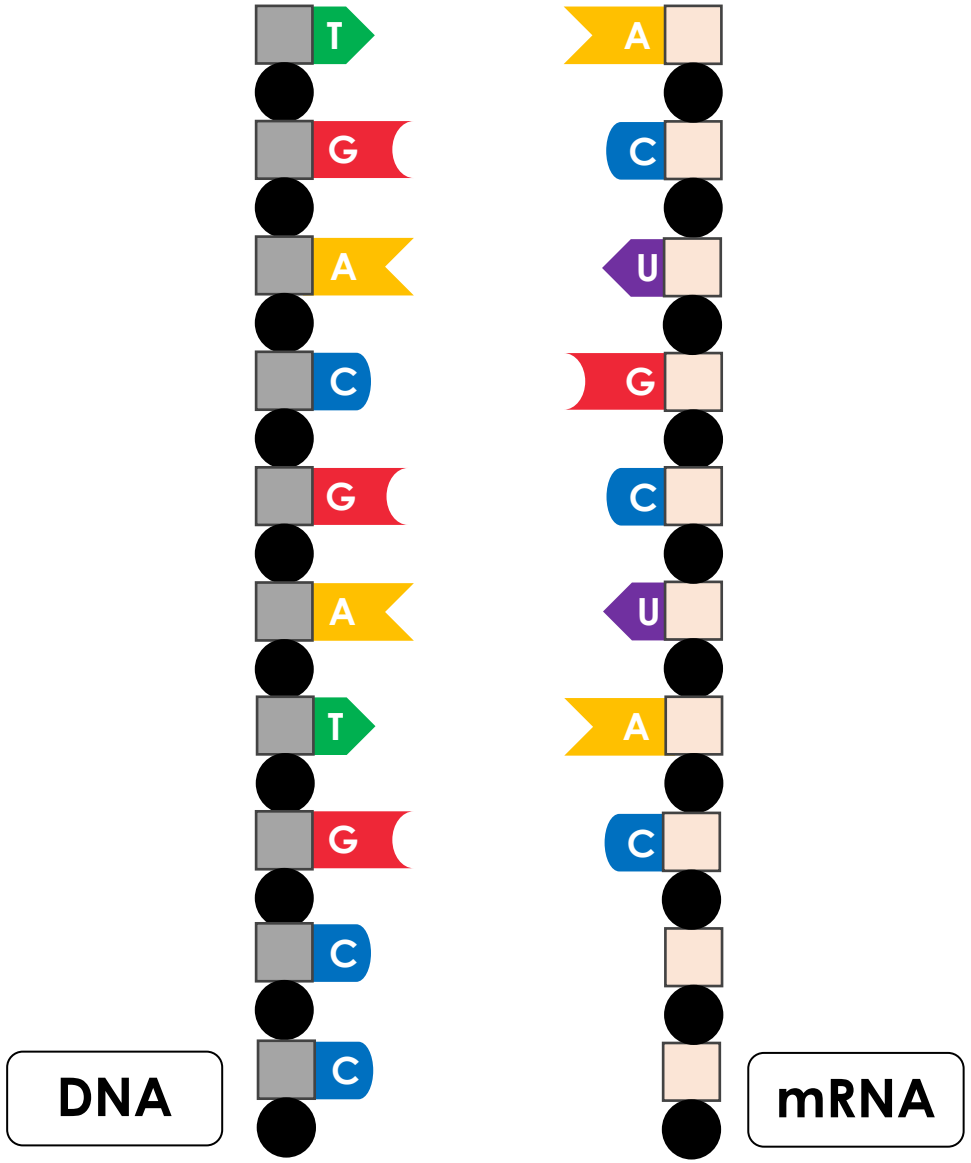

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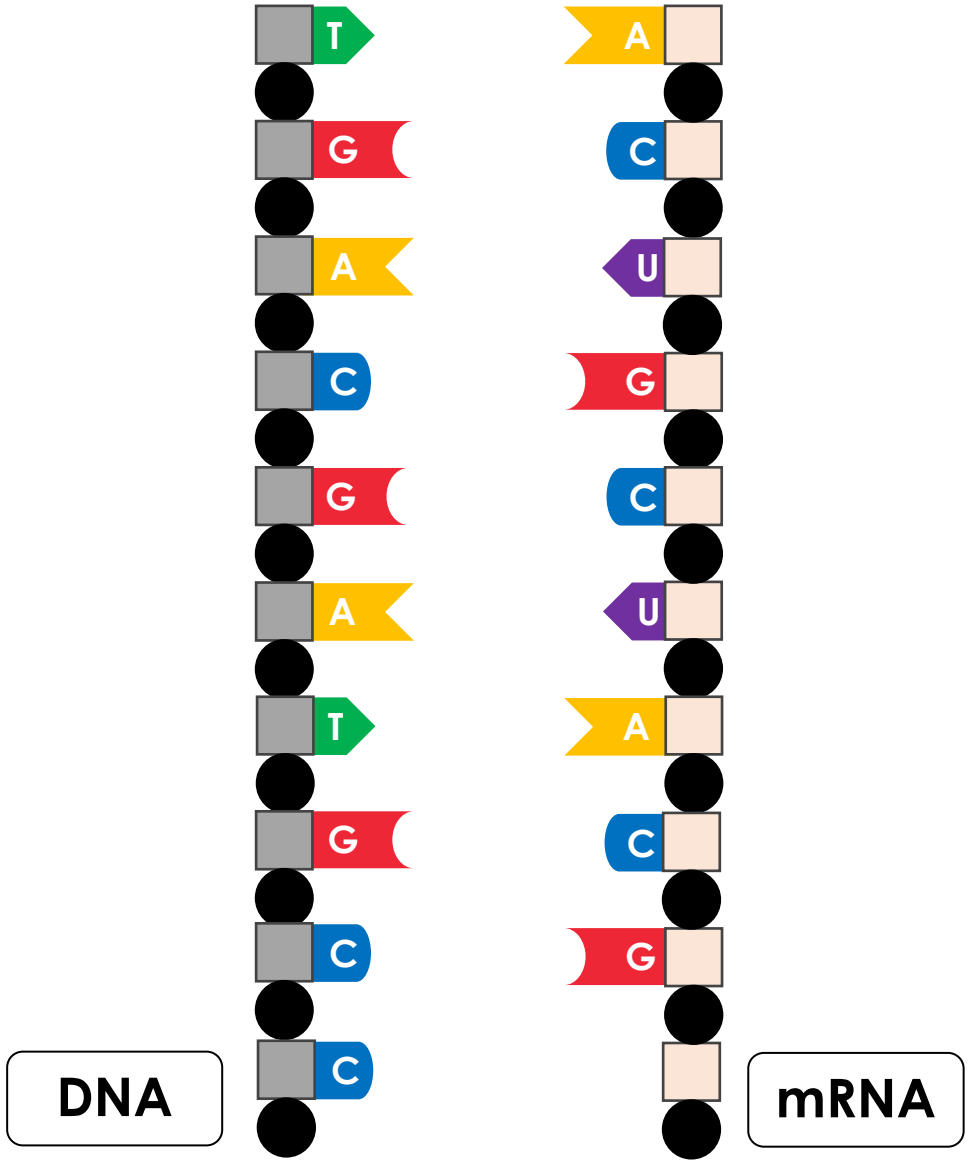
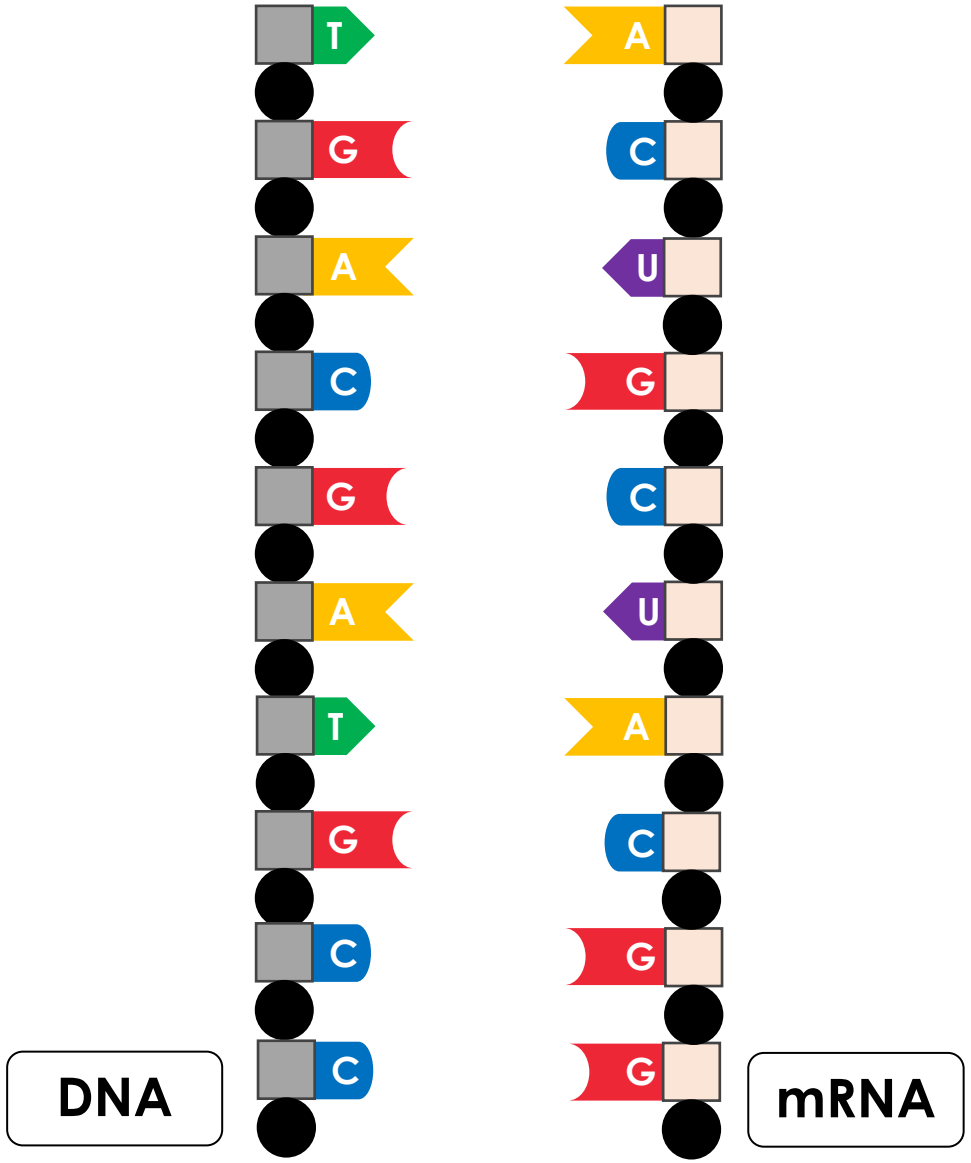


Transcribe the DNA strand into a mRNA strand.



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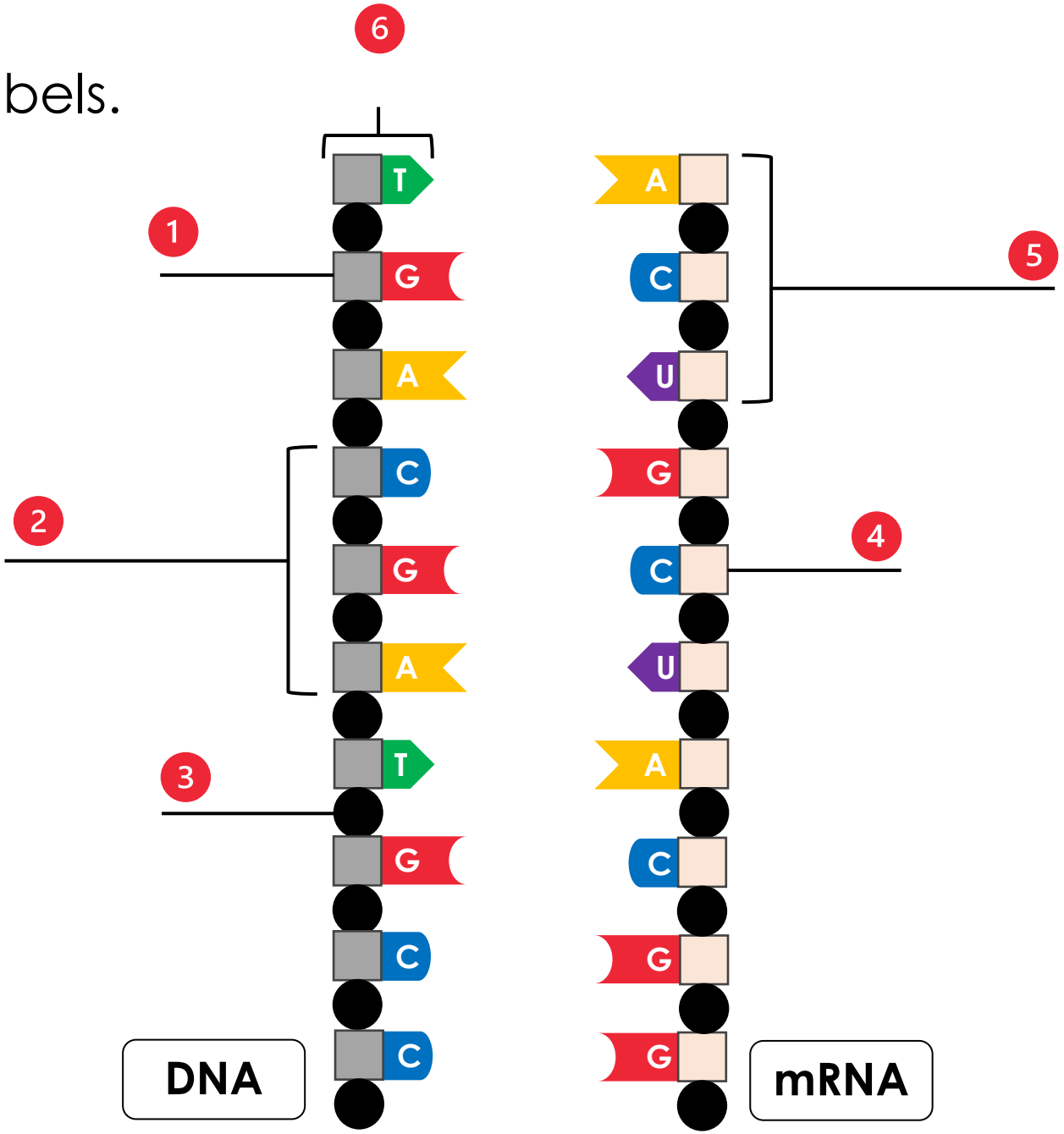

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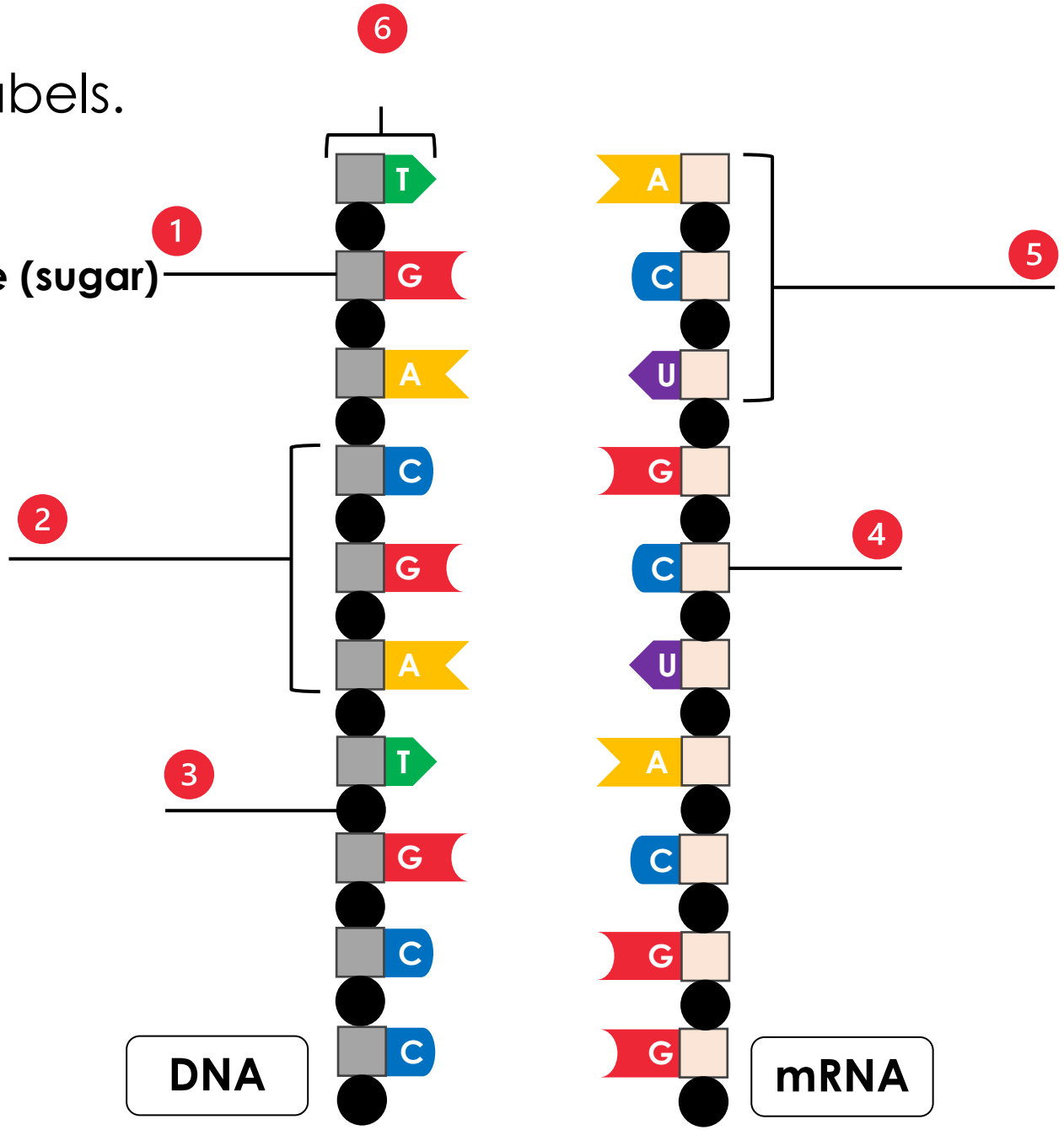

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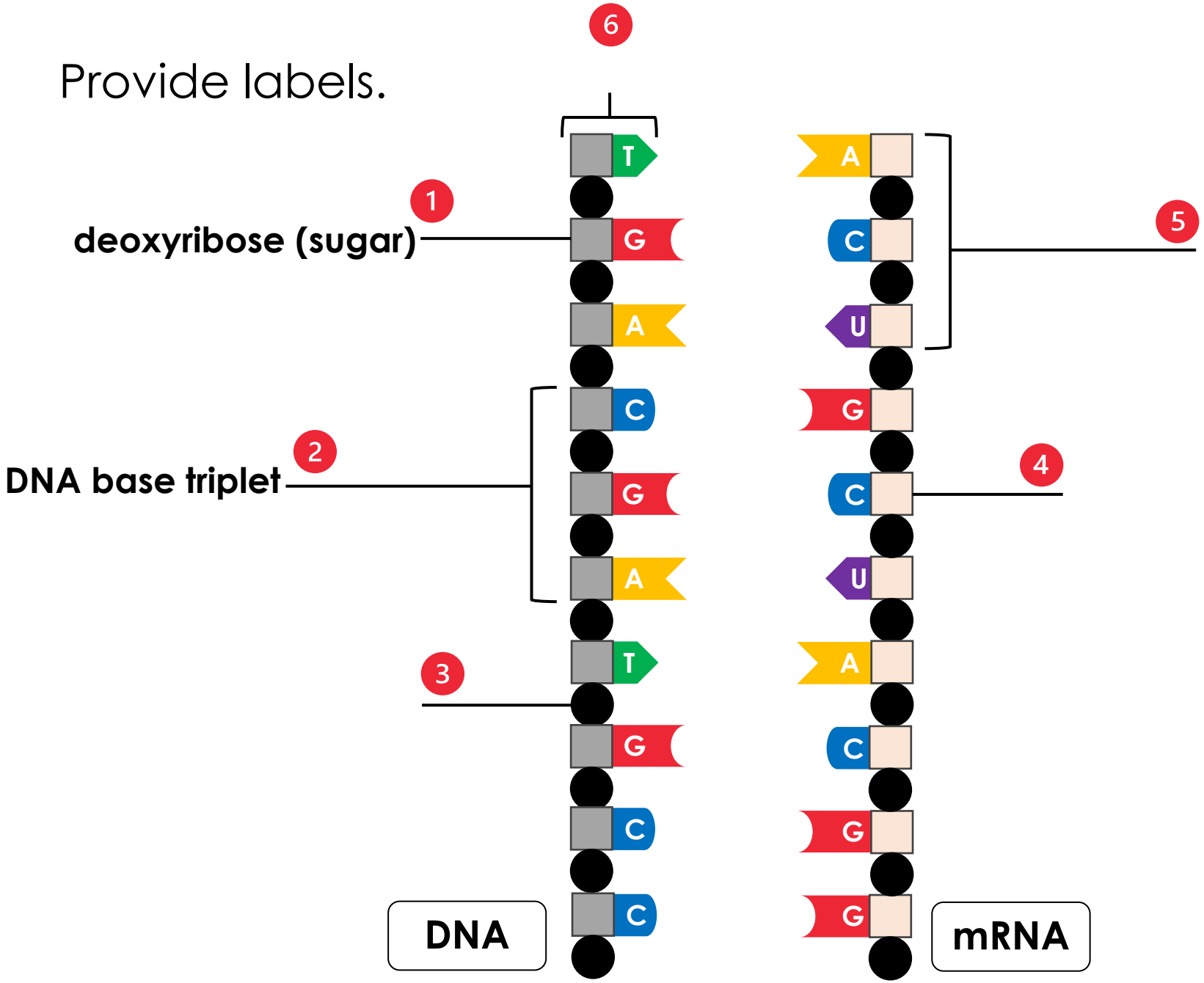

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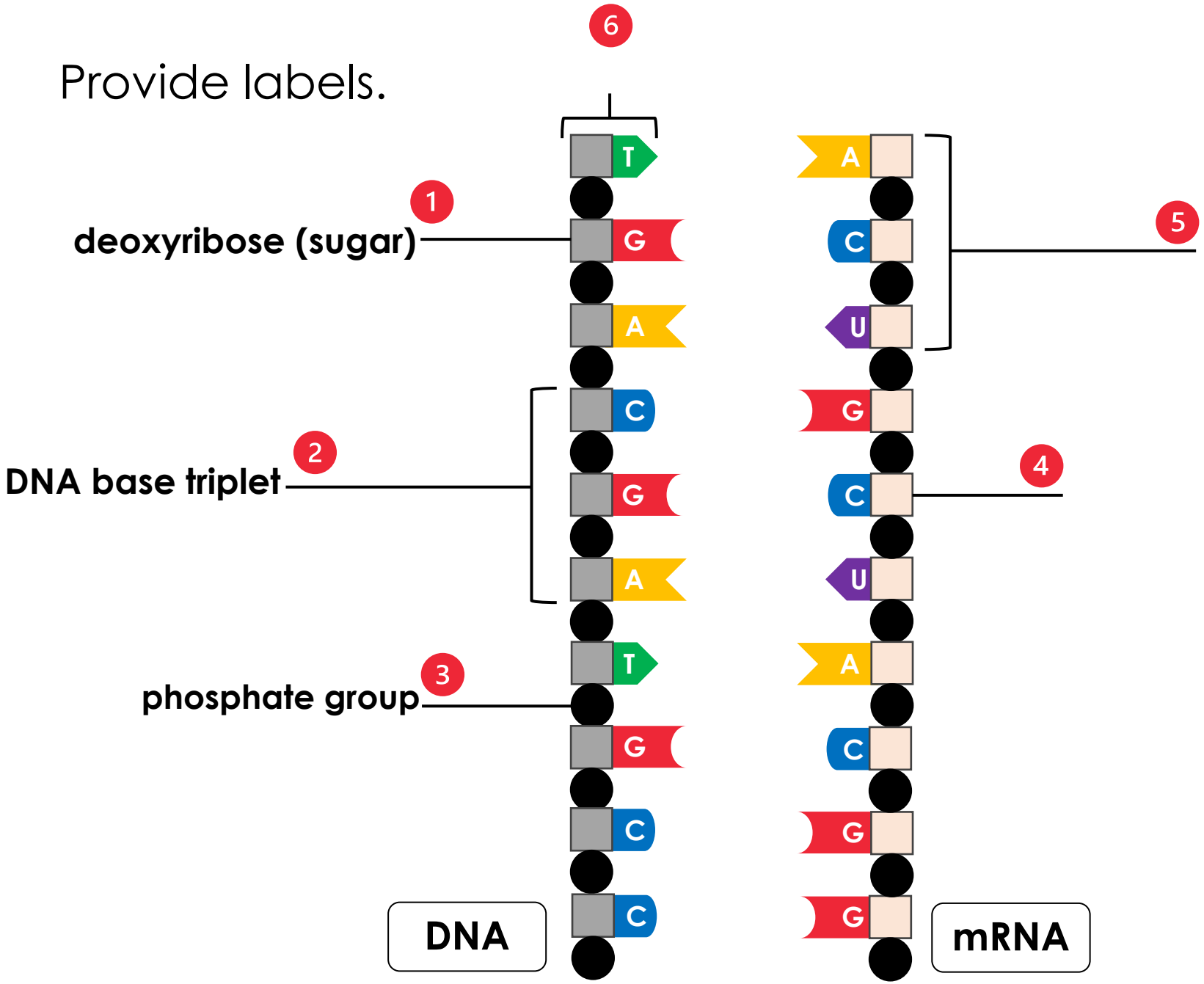

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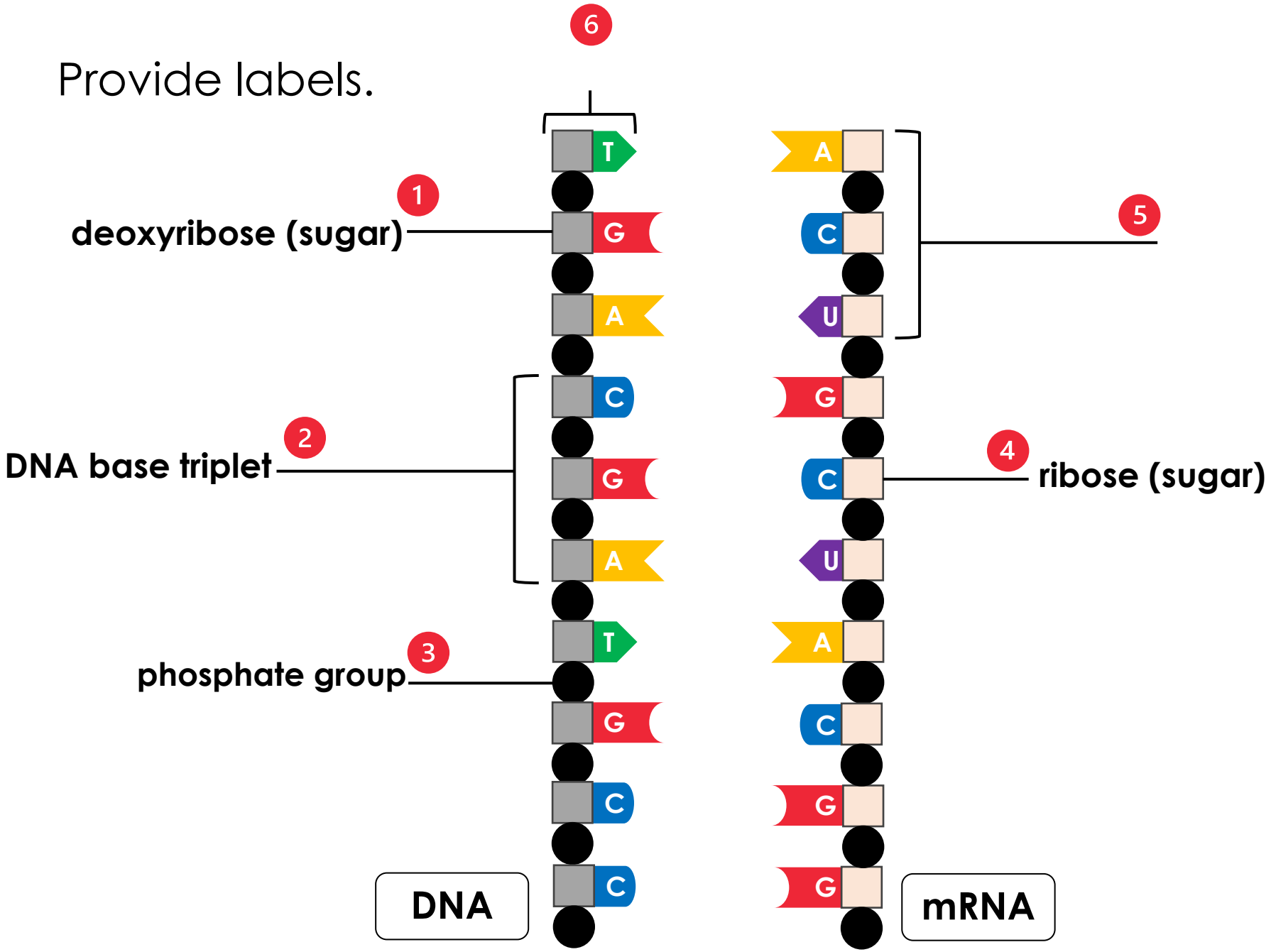

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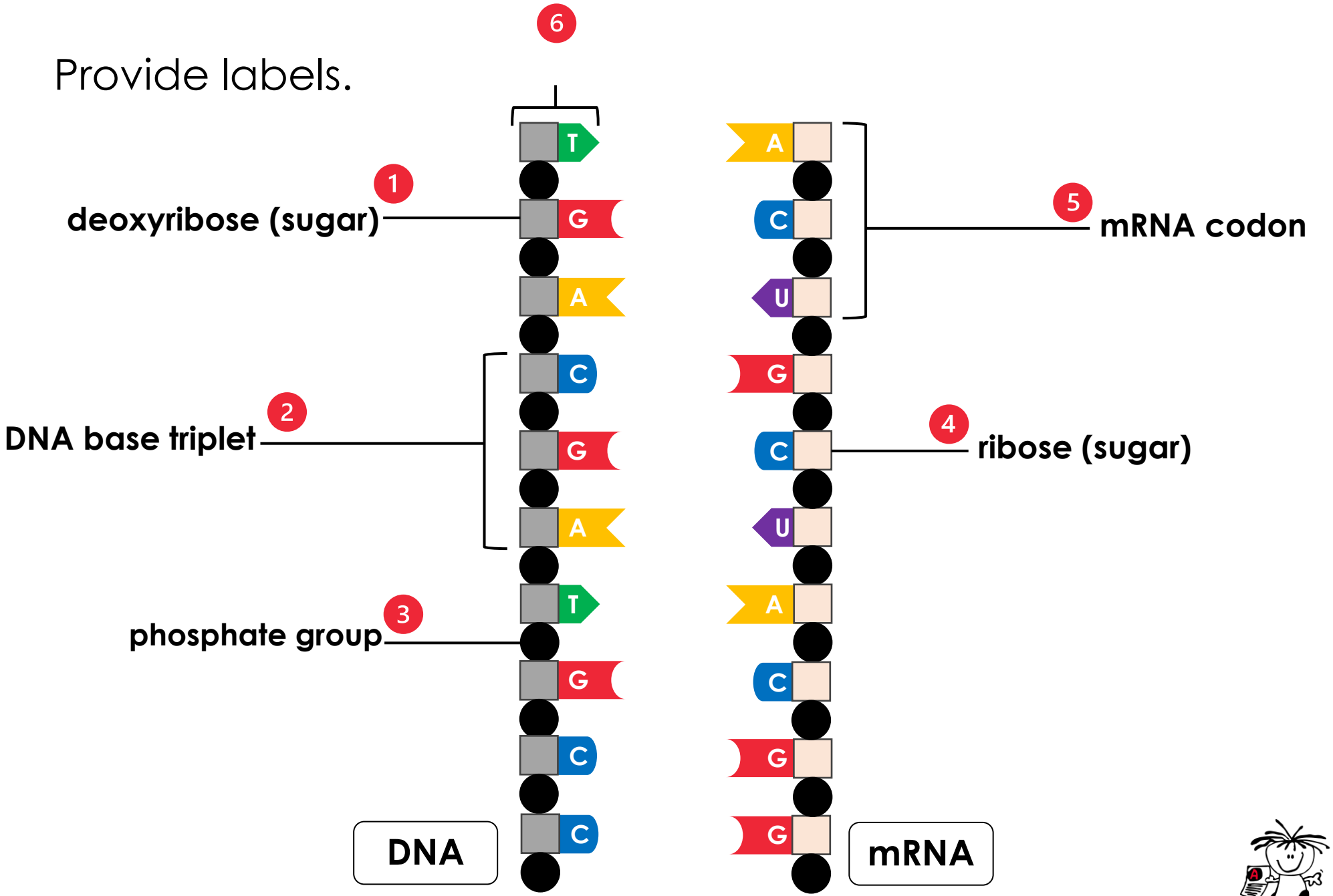

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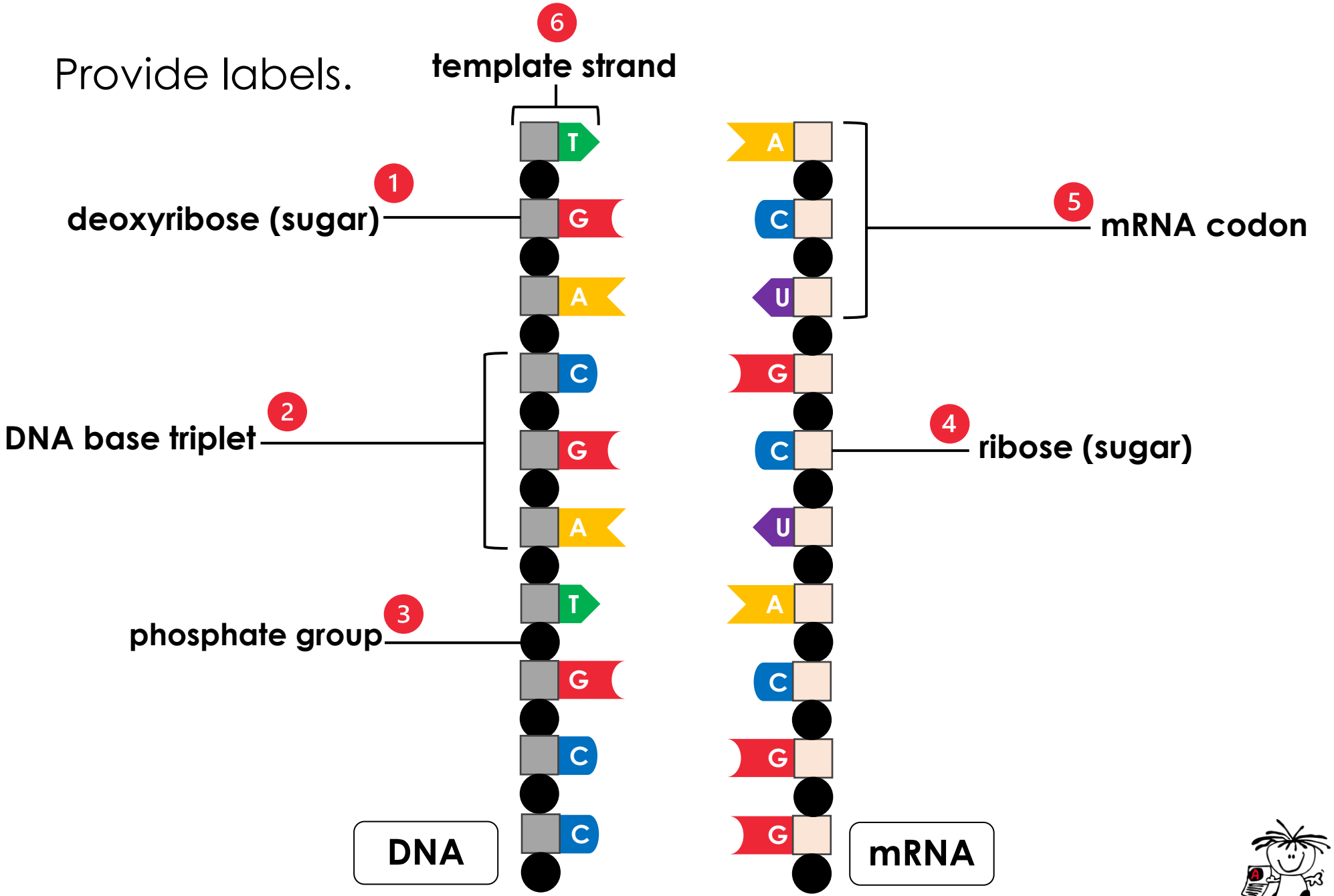
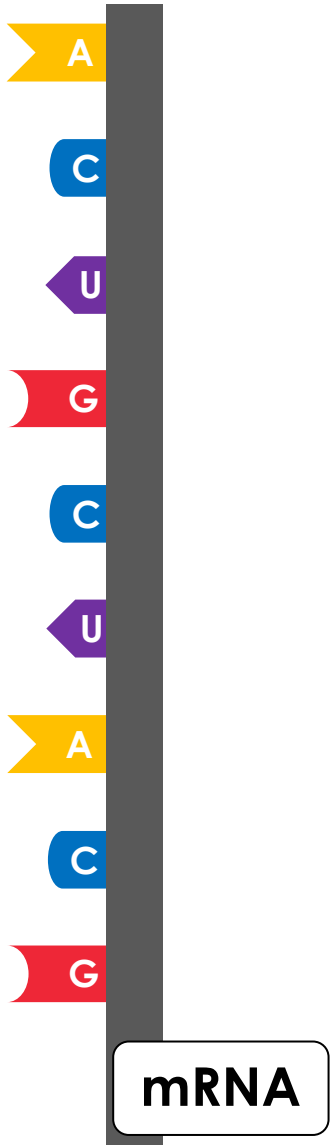


TRANSLATION

1 Translate the mRNA strand into an amino acid sequence.



tRNA anticodon	amino acid
UGC	Ser
UUA	Asn
UGA	Thr
GCG	Arg
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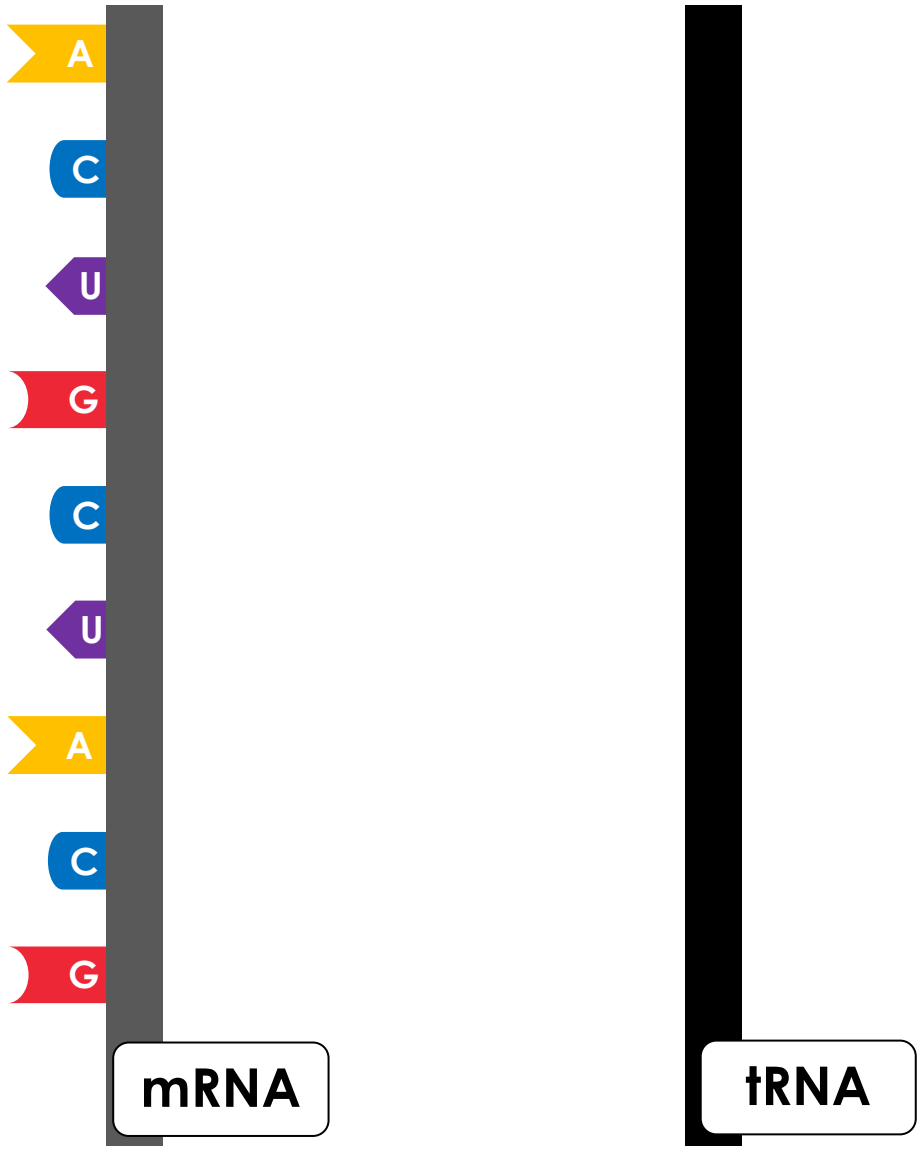

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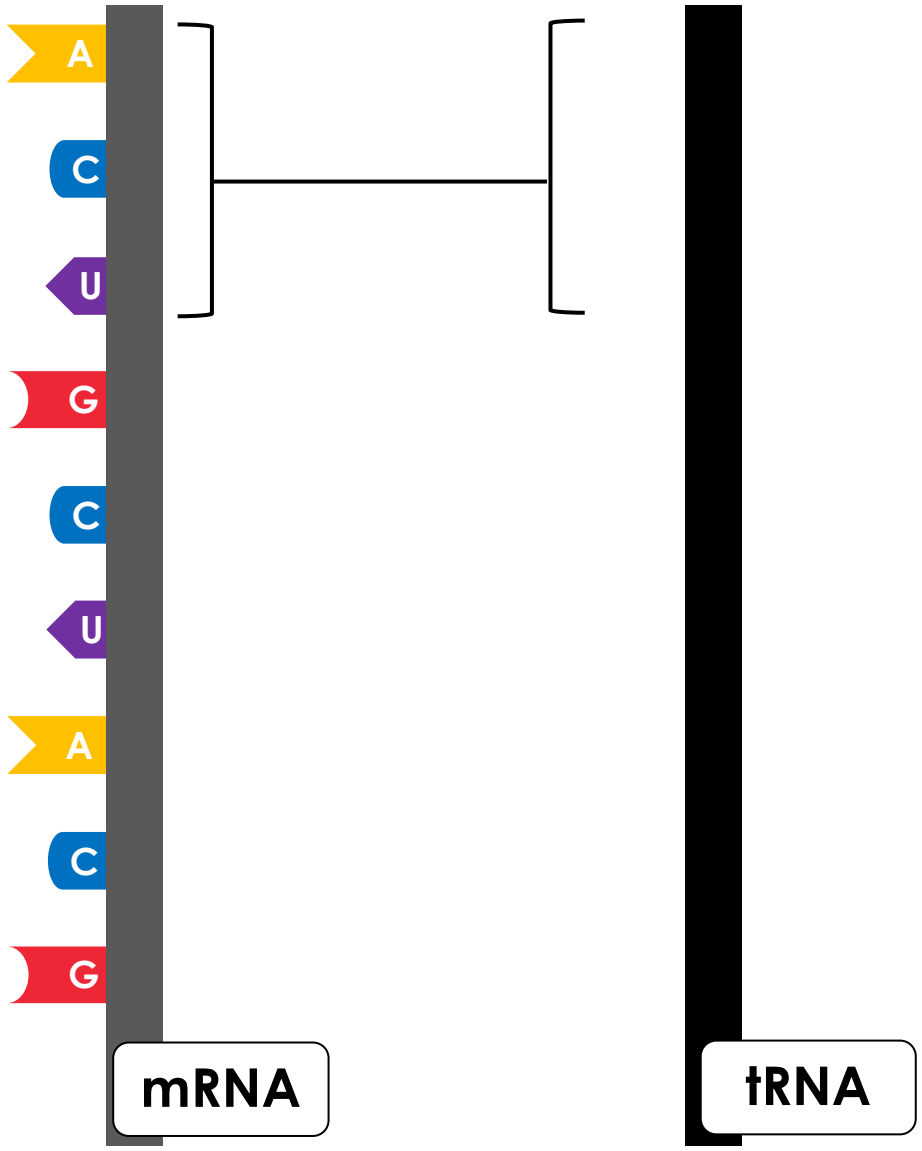

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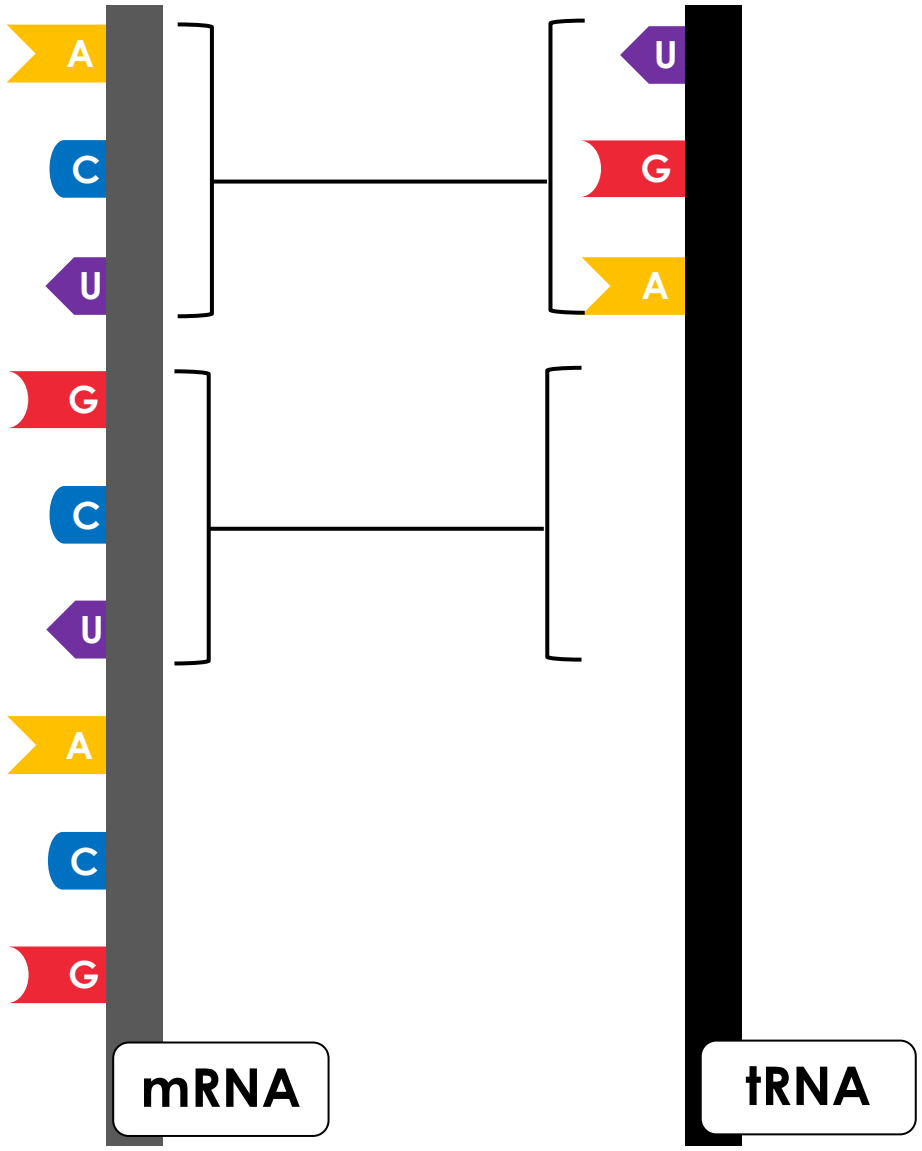

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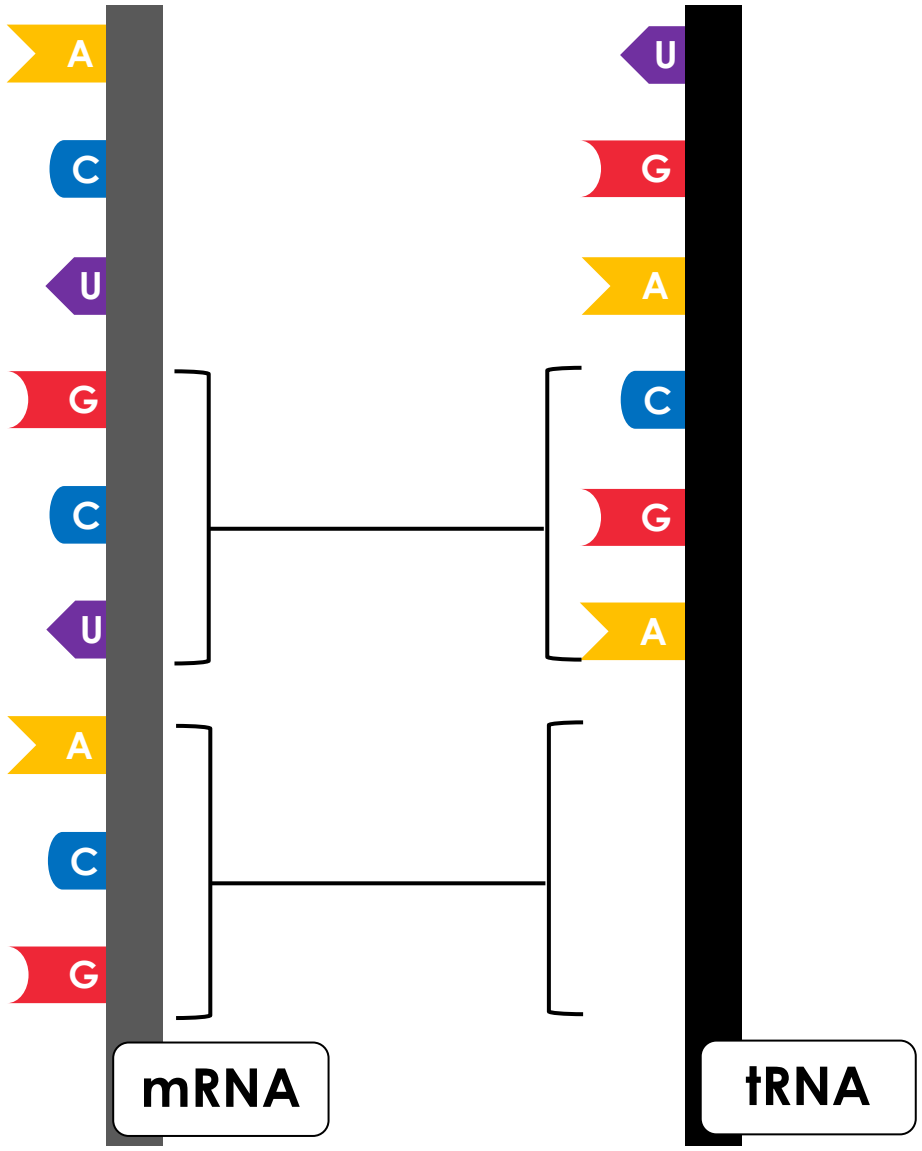

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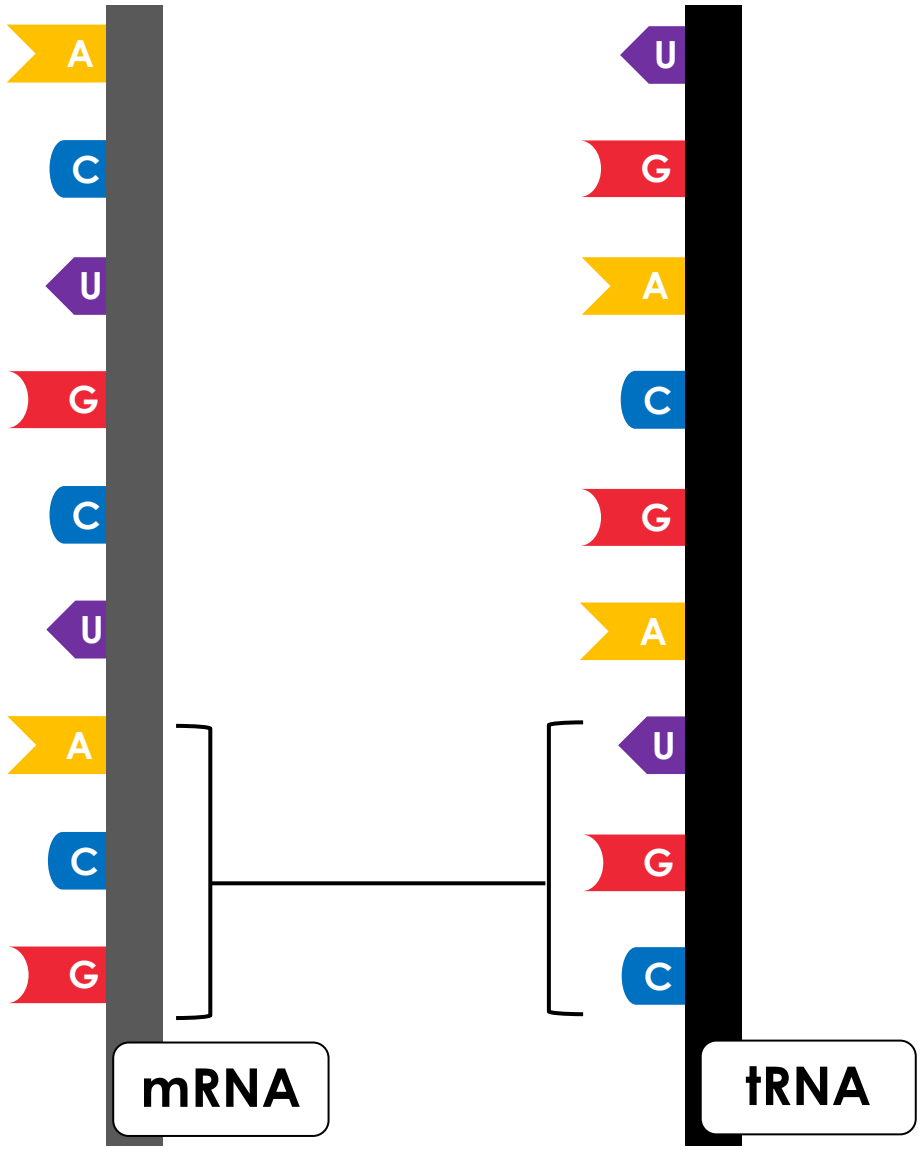

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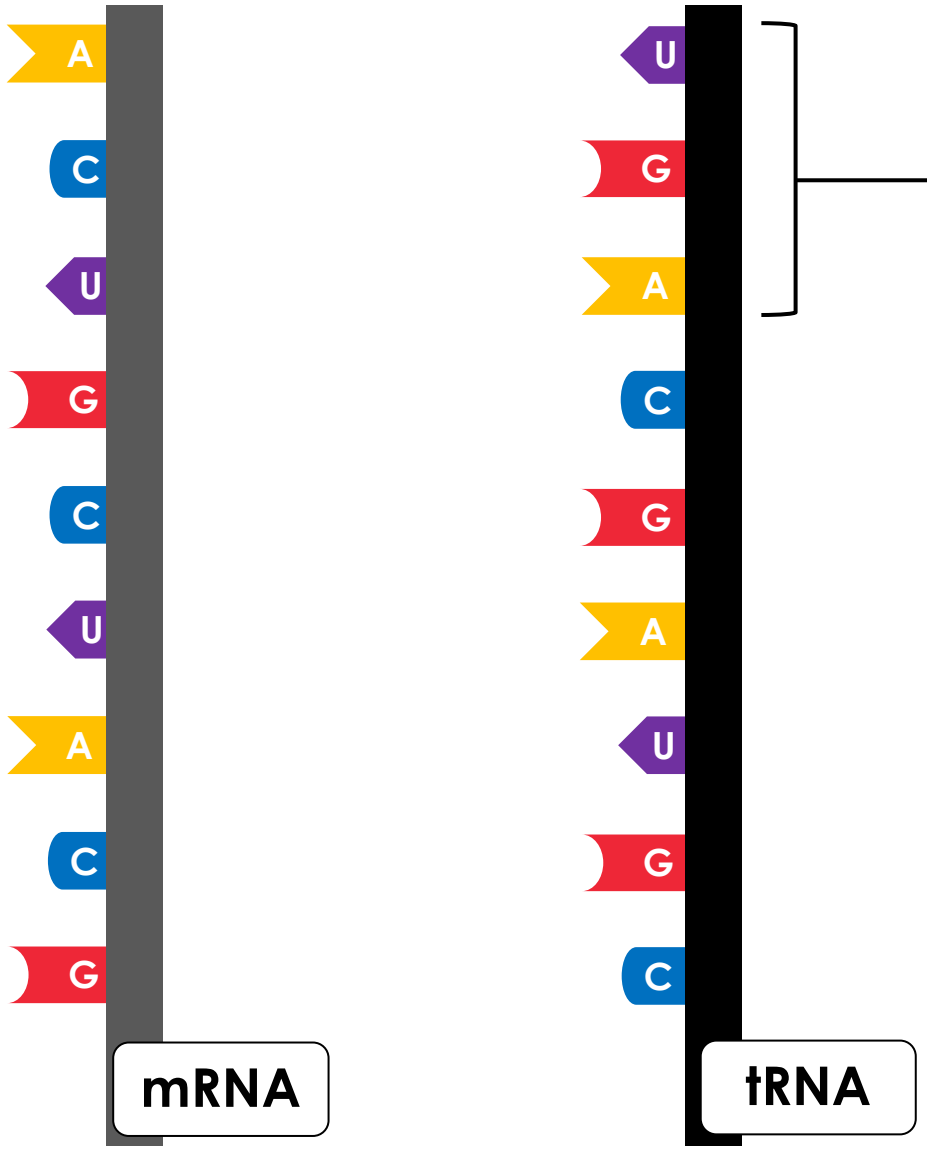

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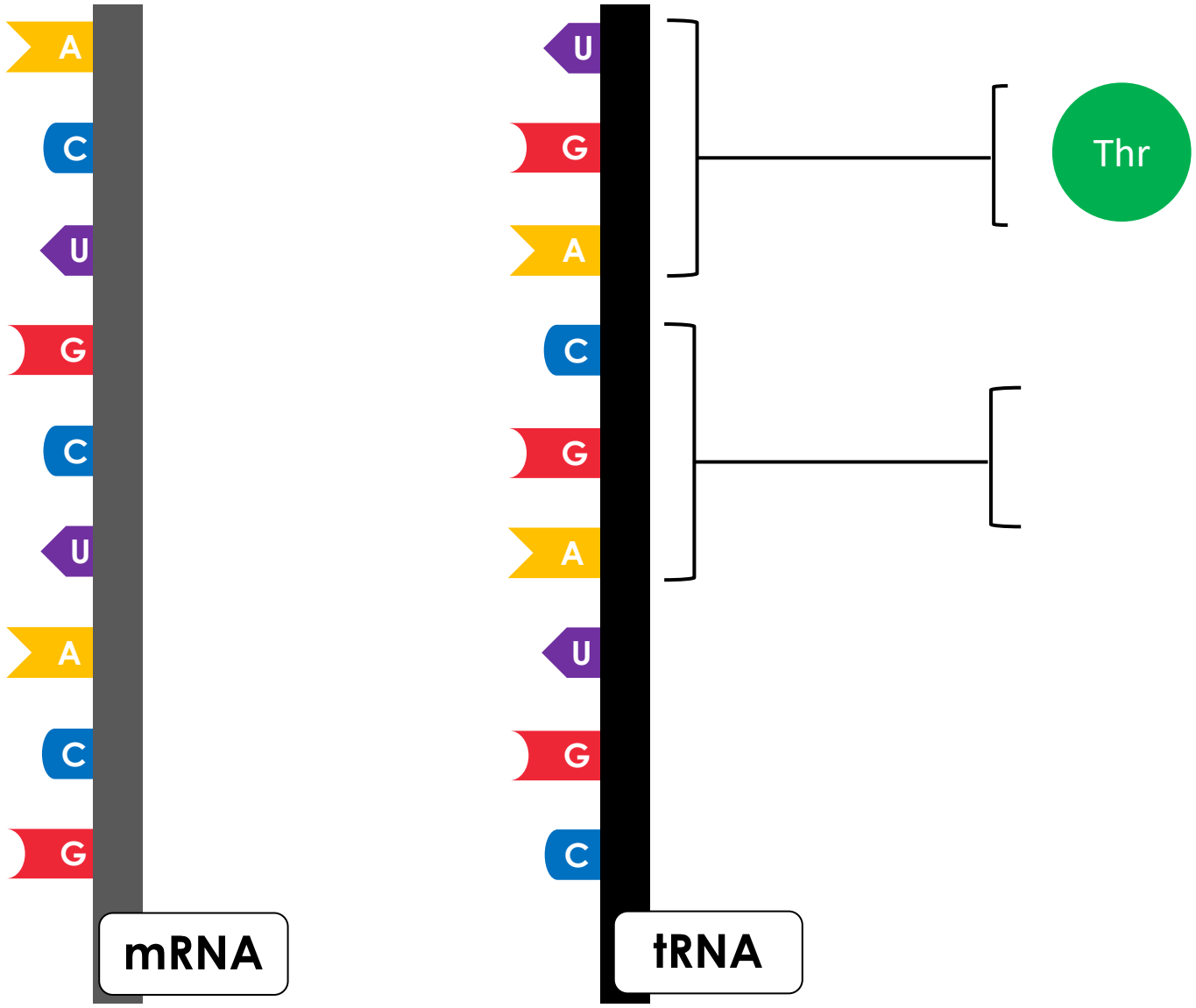

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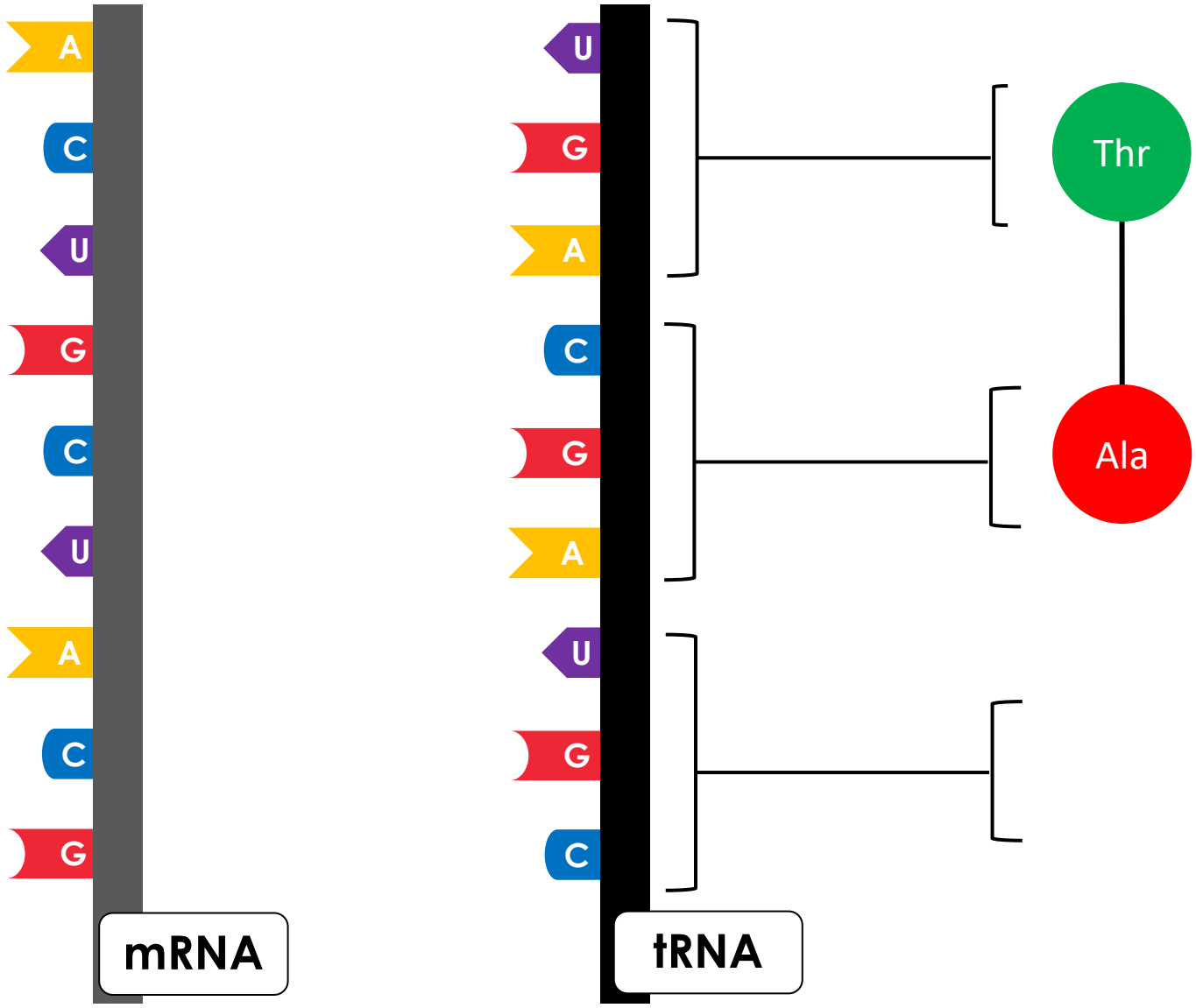

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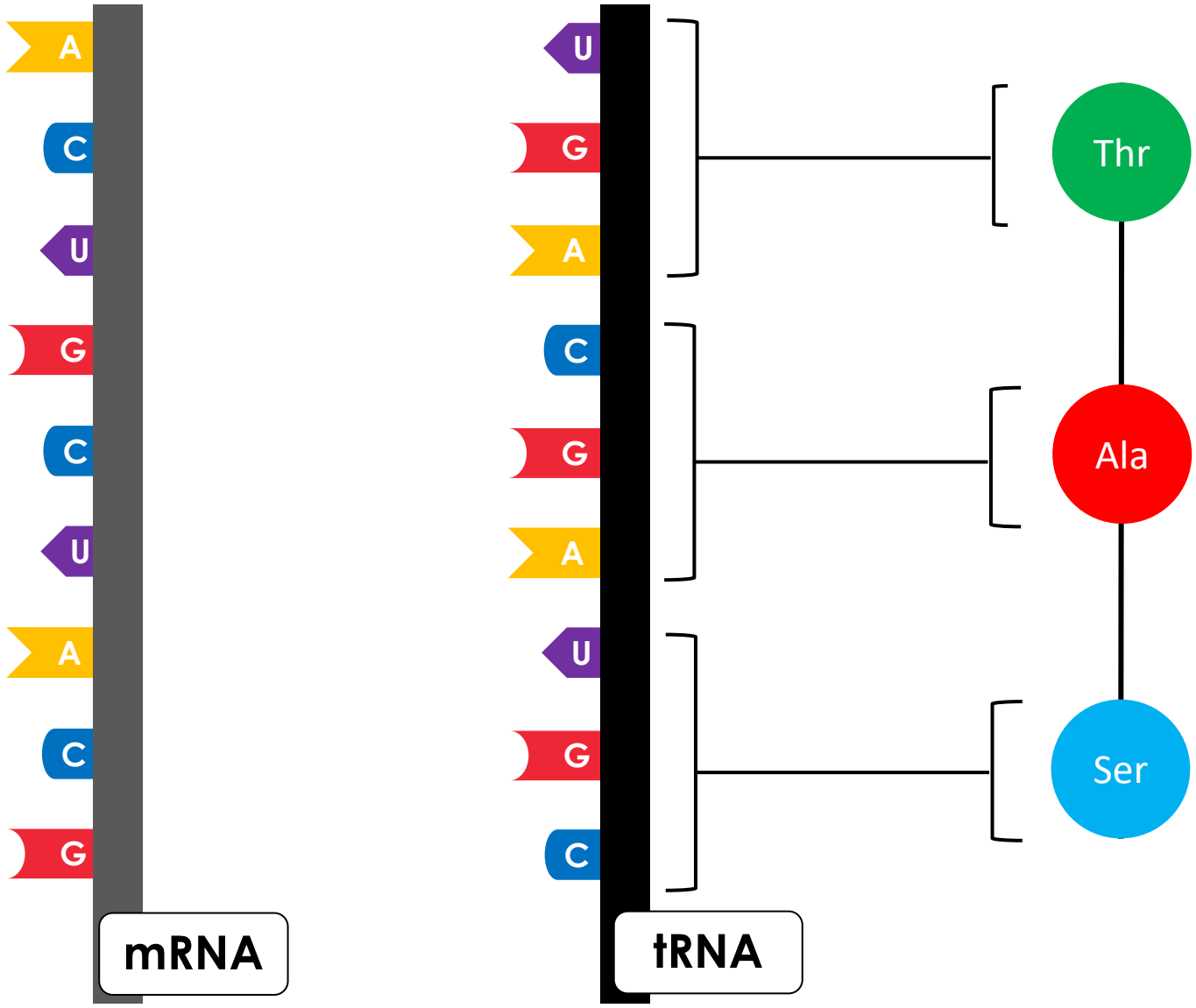

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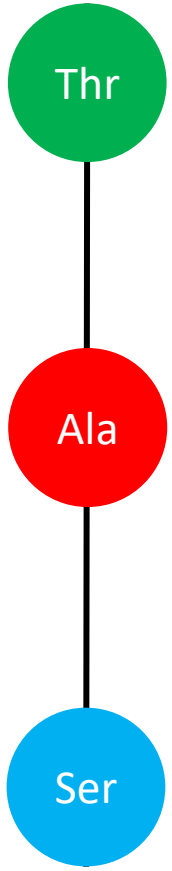

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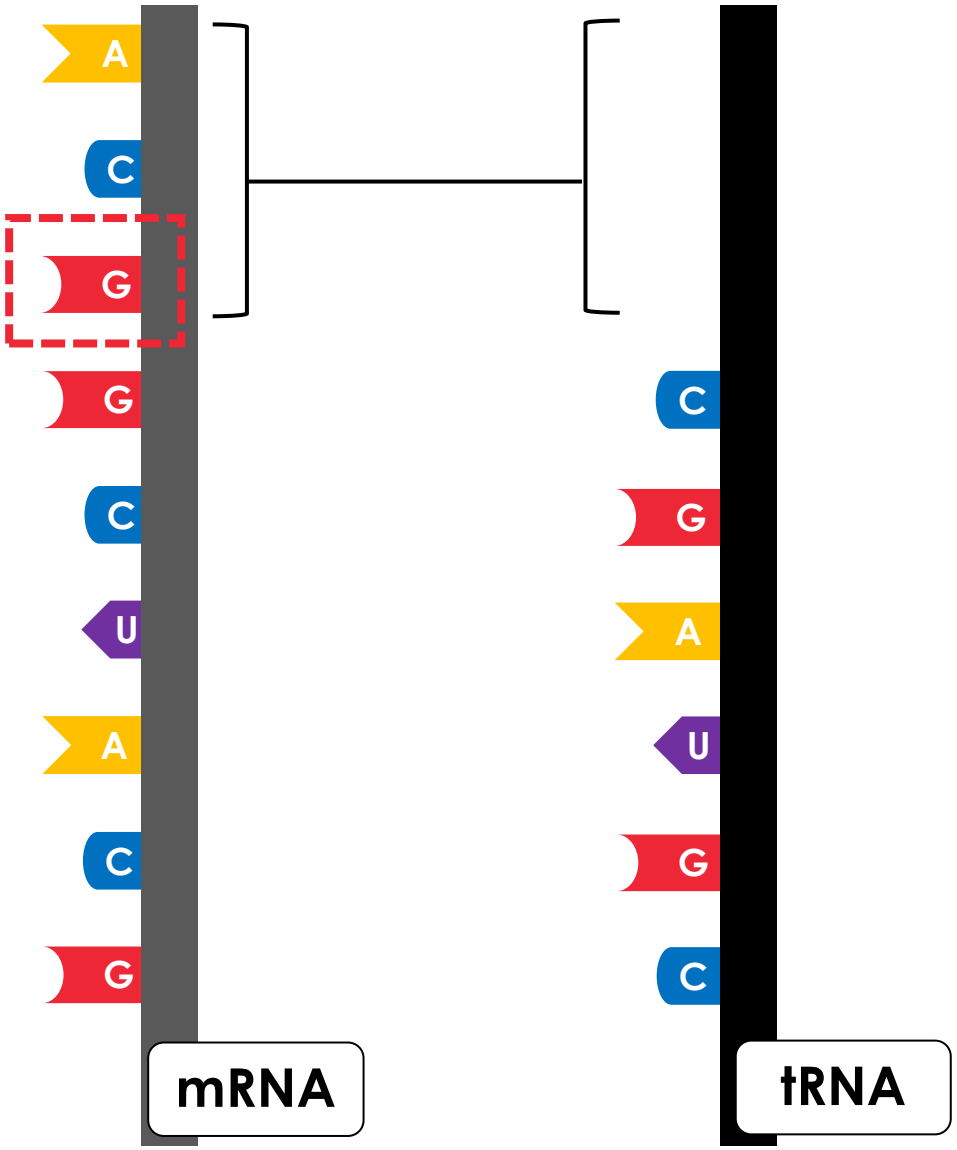

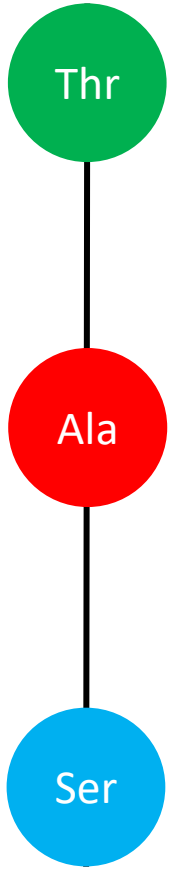

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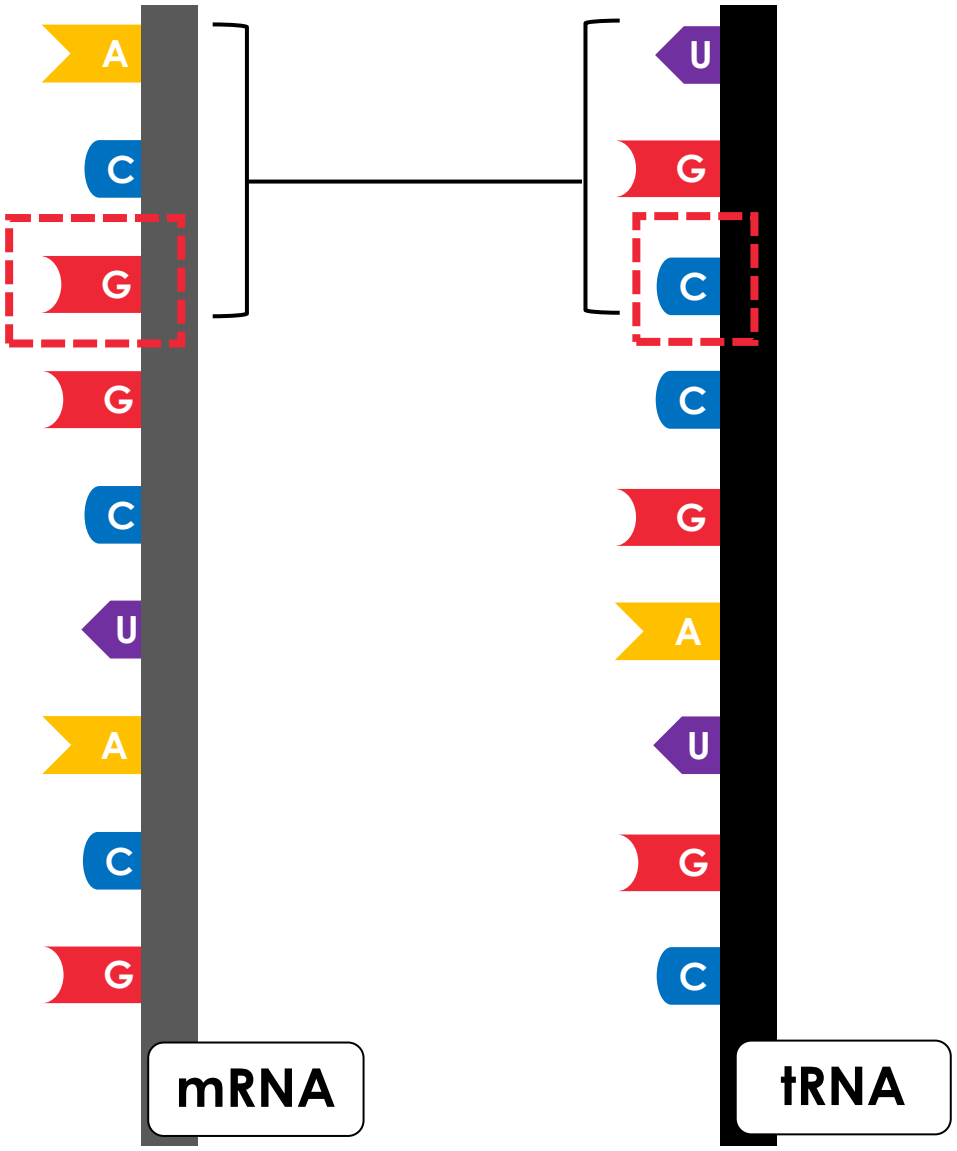

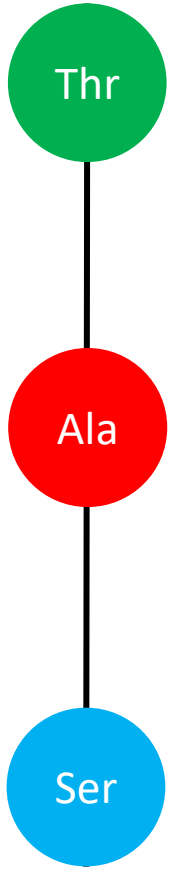

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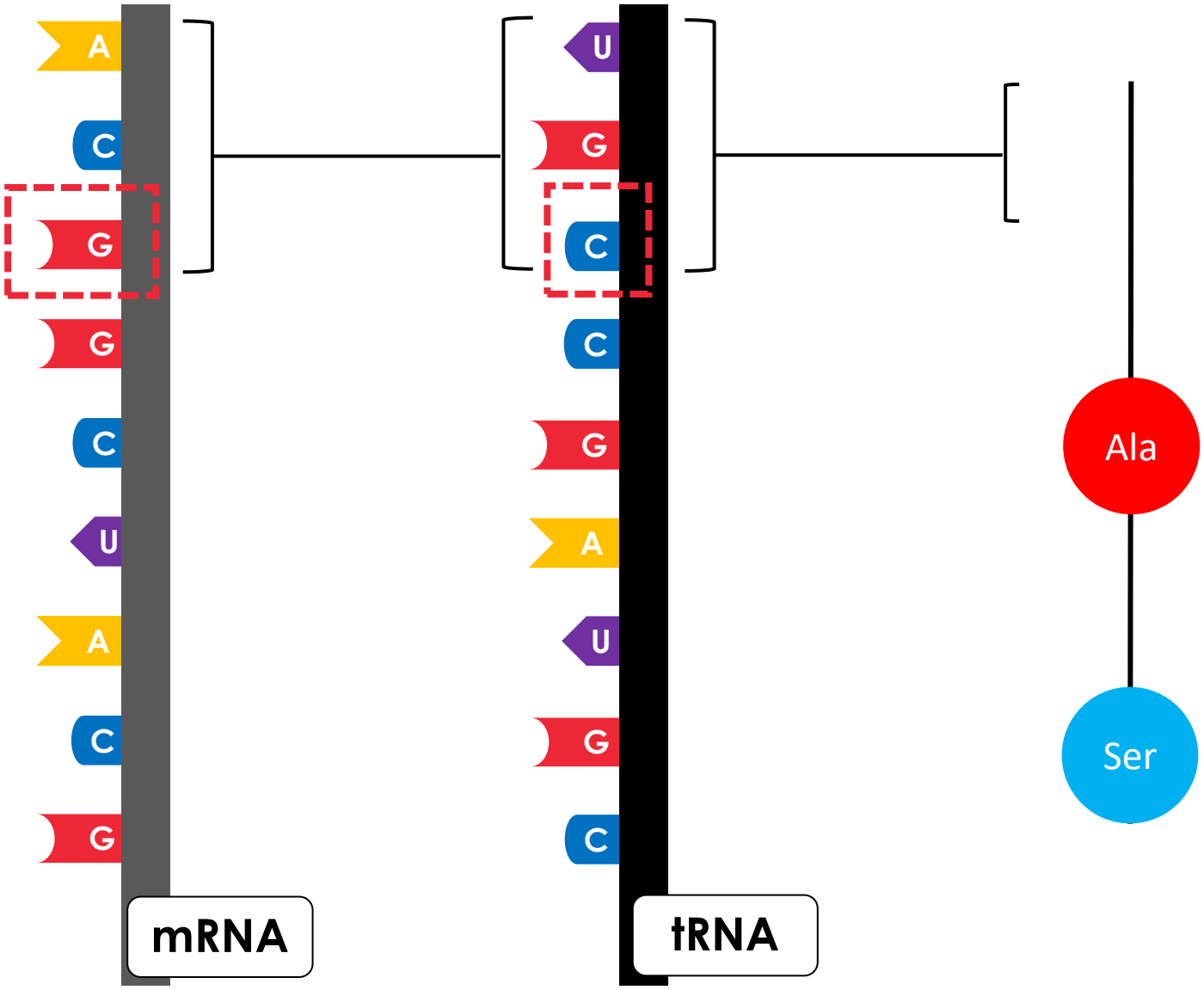

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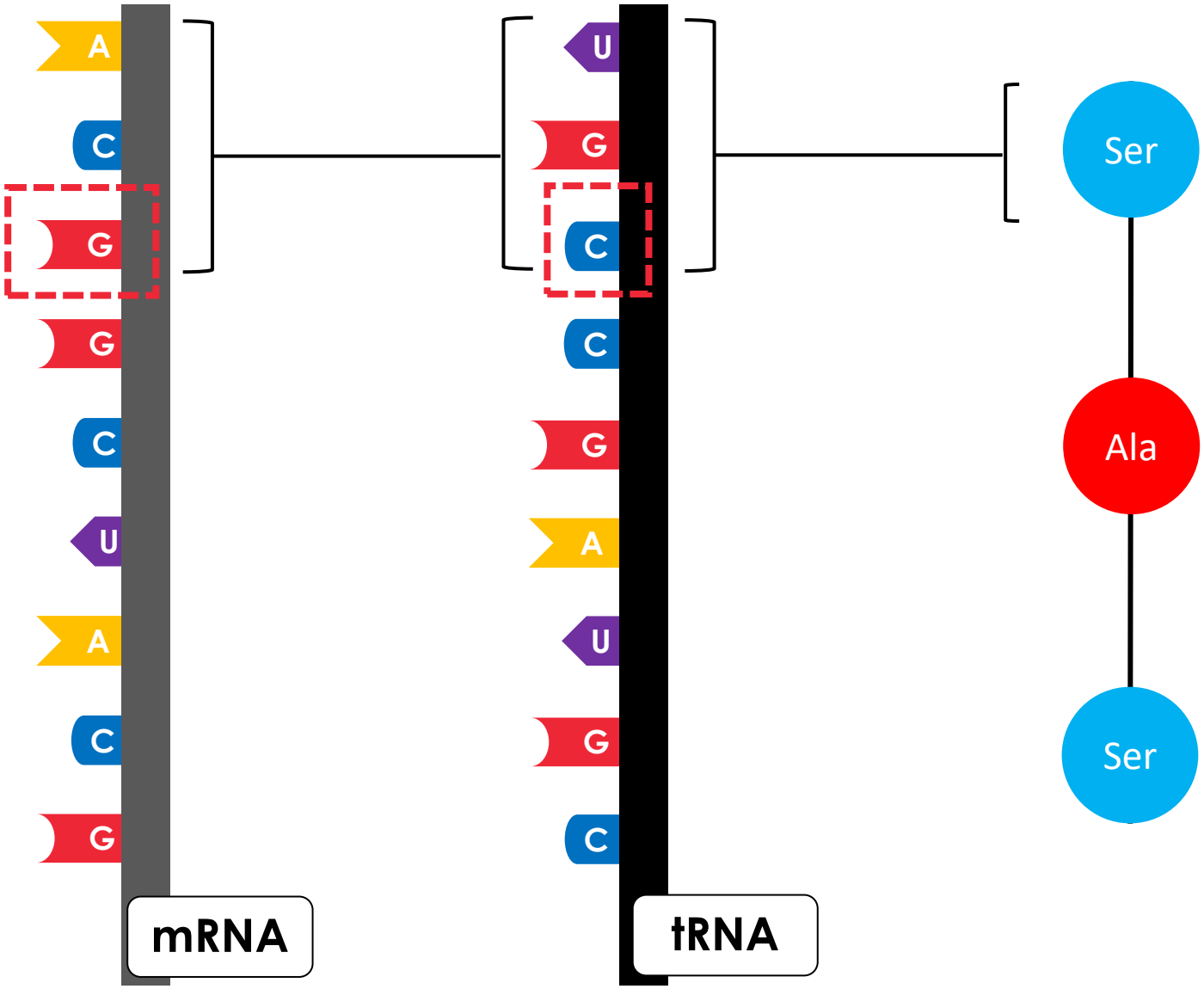

Protein structure and function may change.

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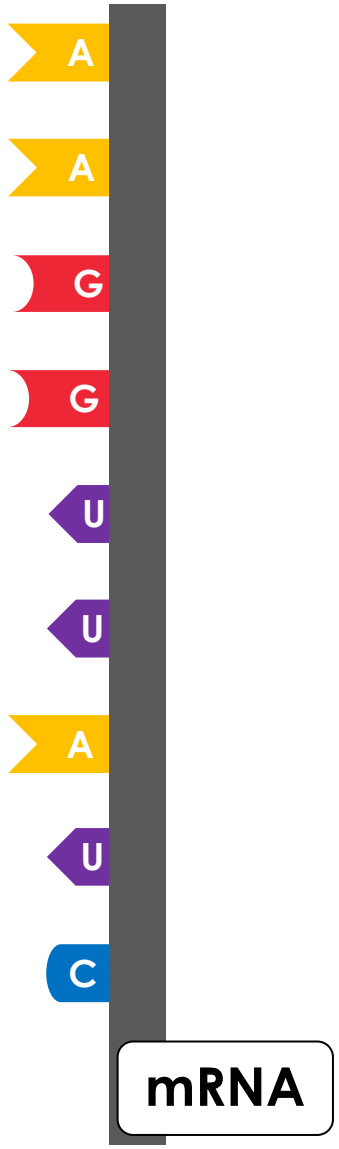

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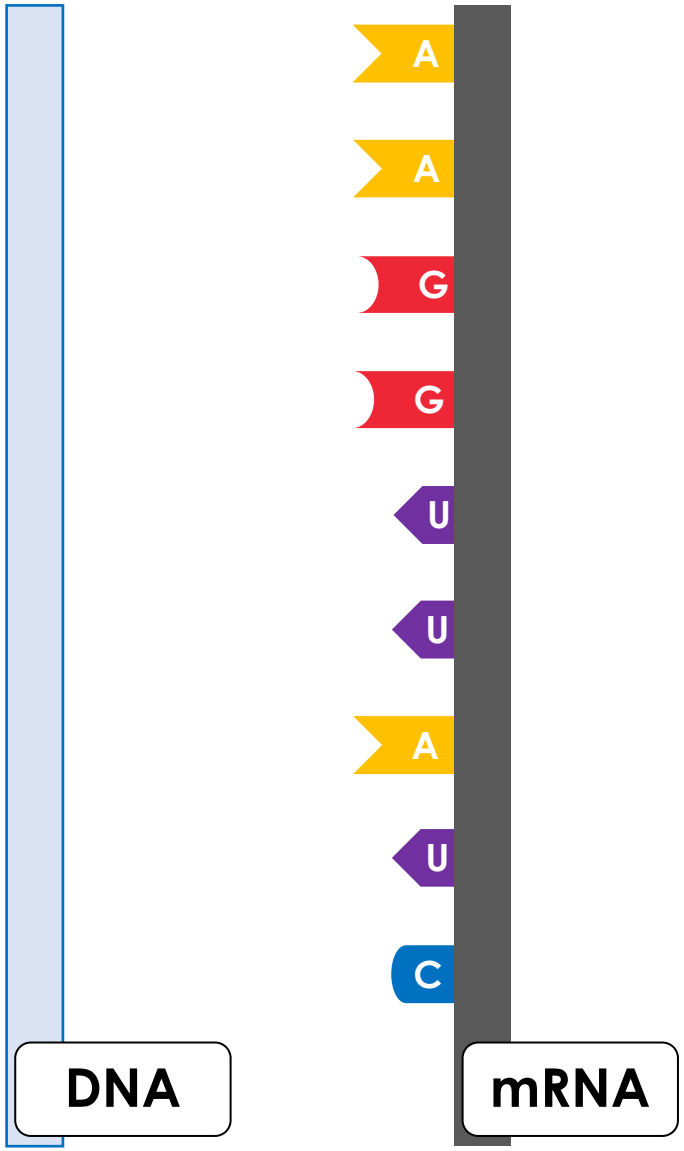

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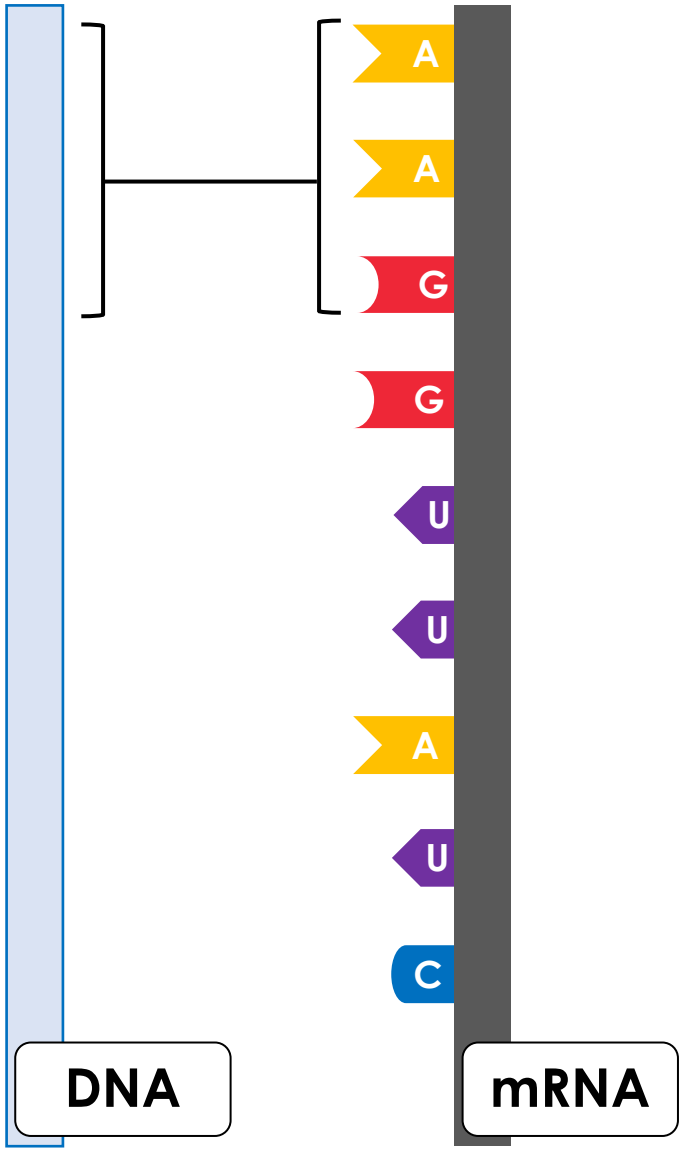

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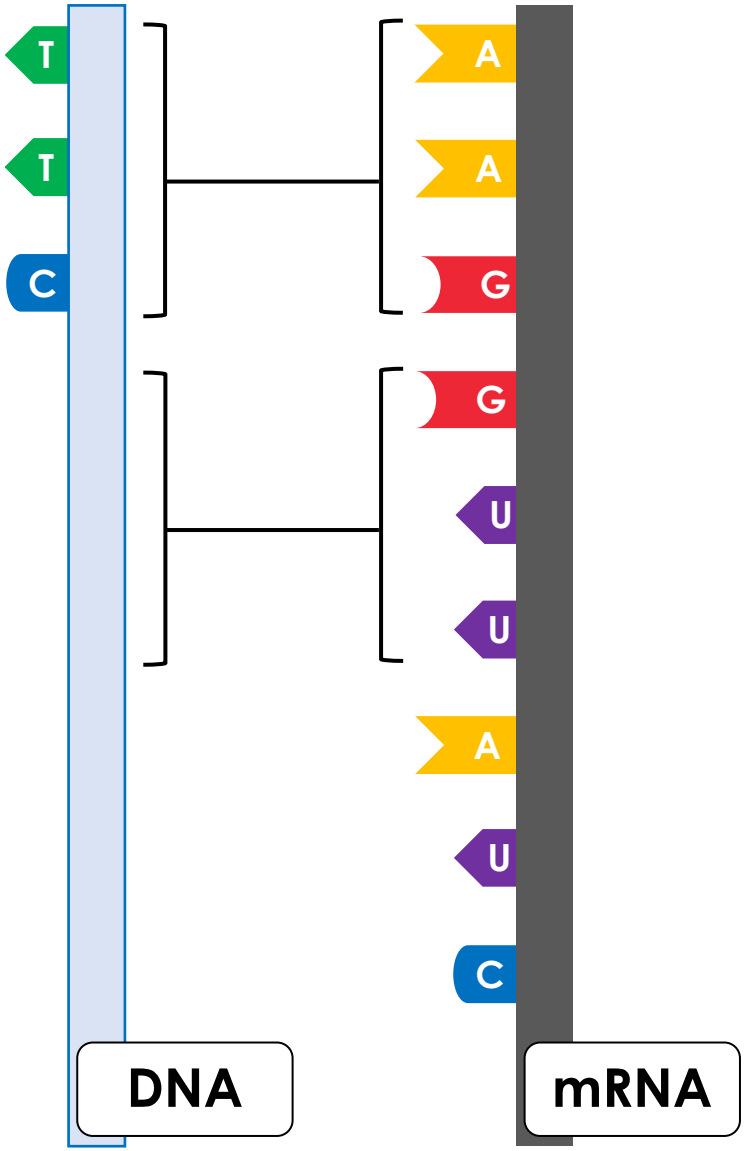

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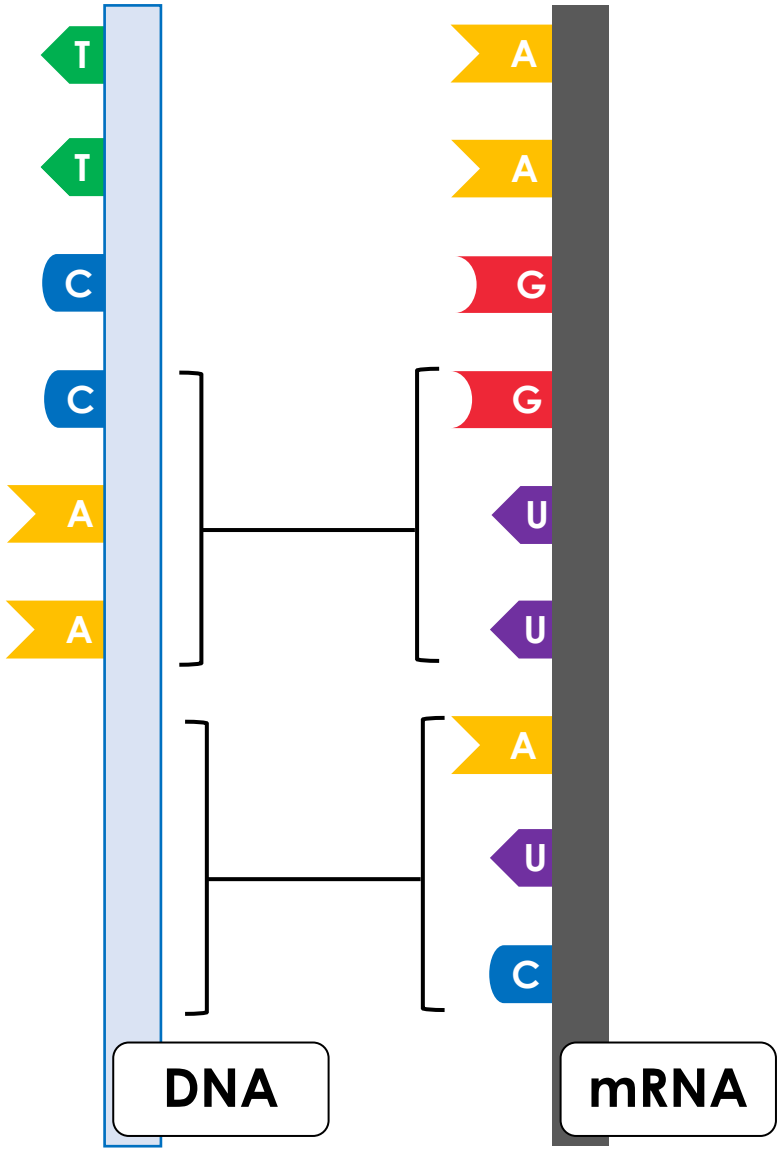

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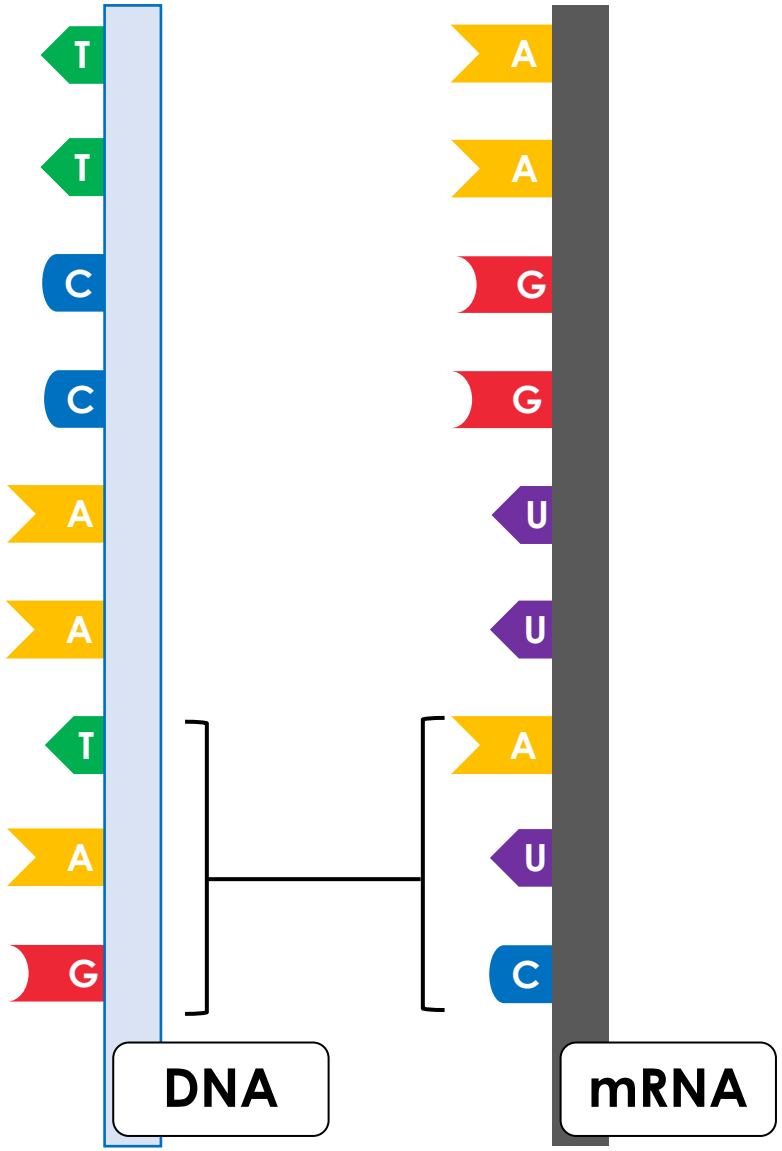

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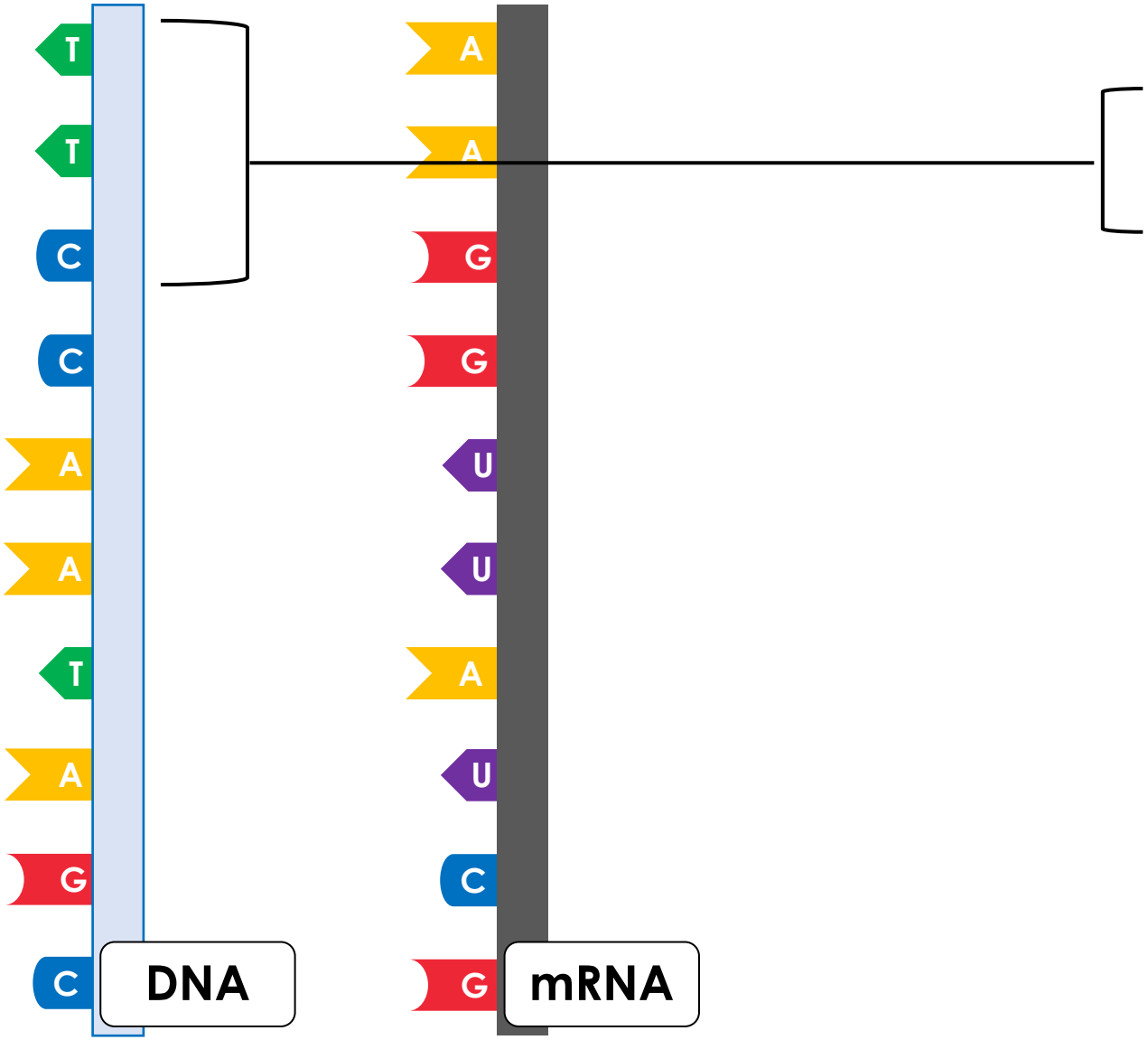

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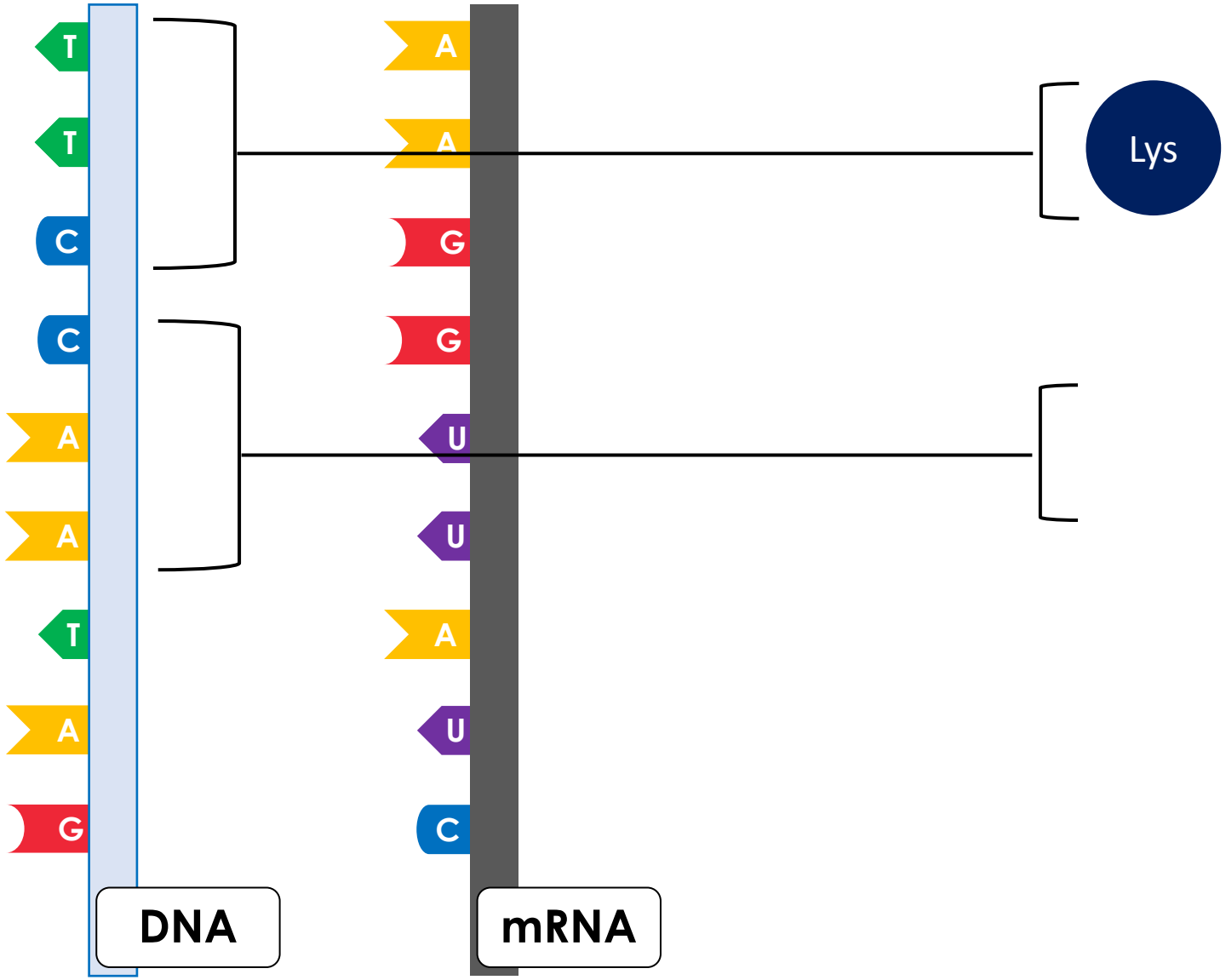

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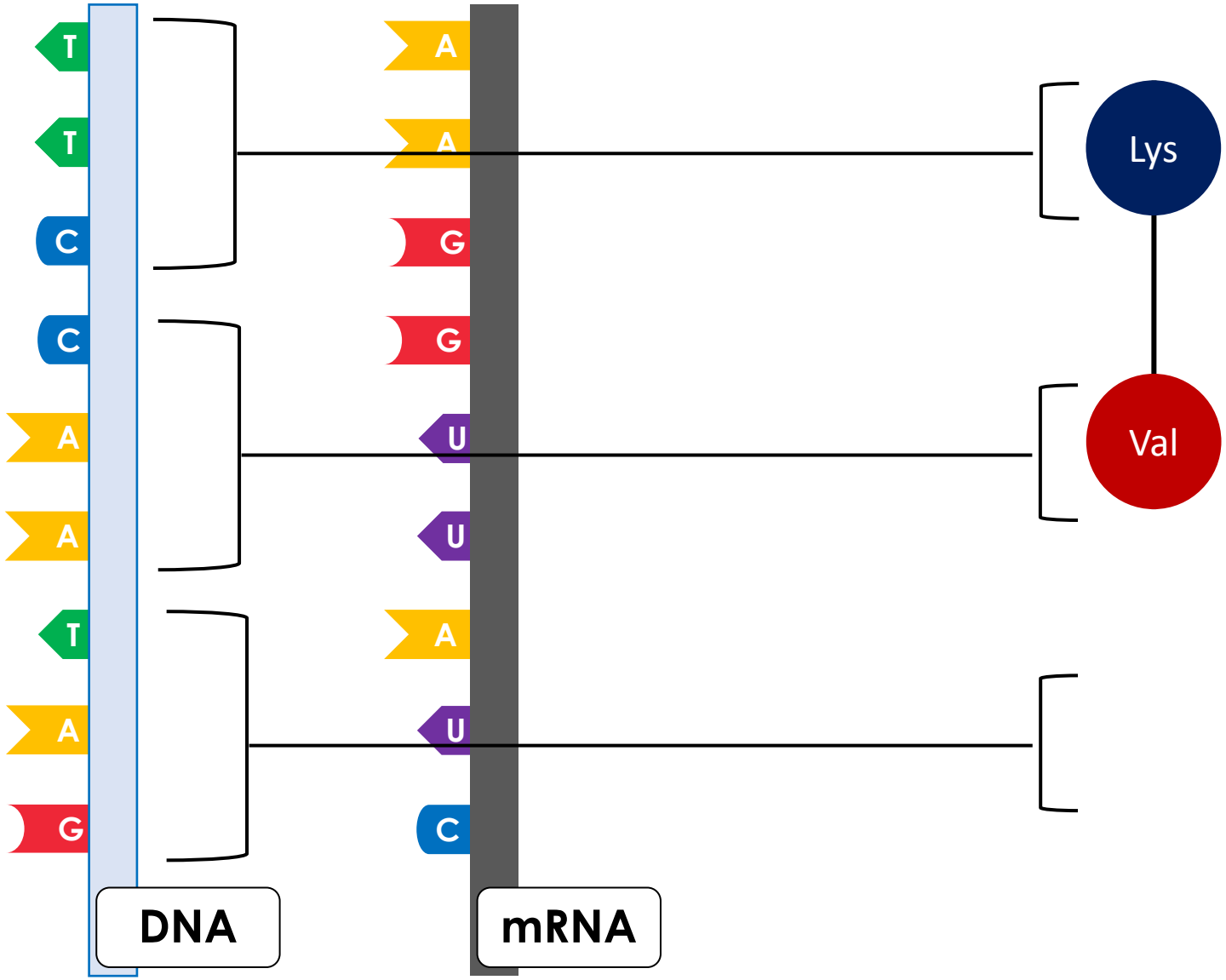

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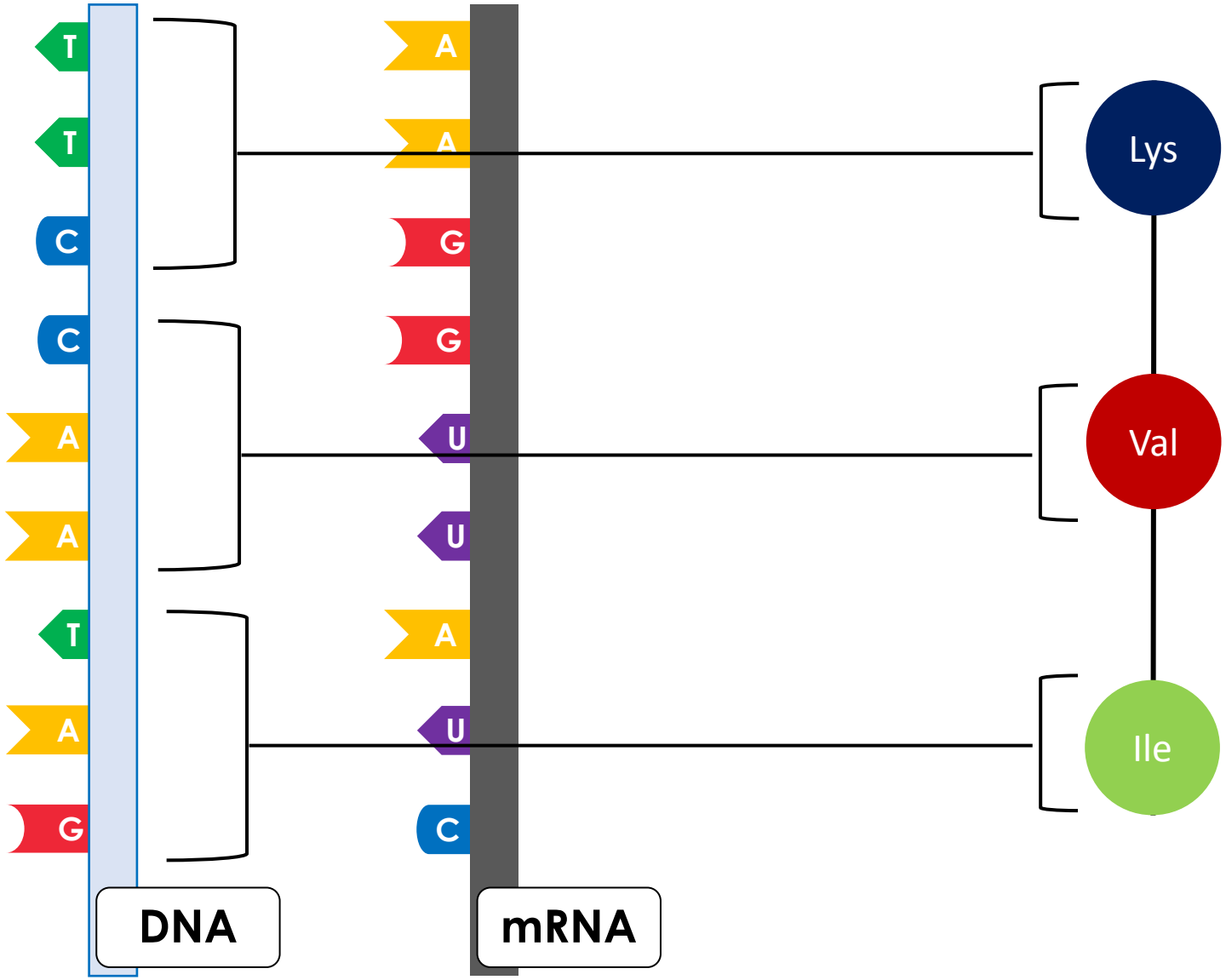

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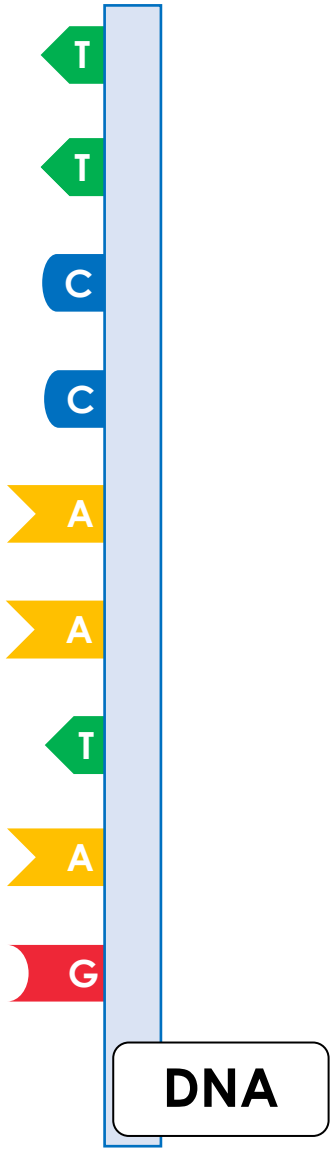
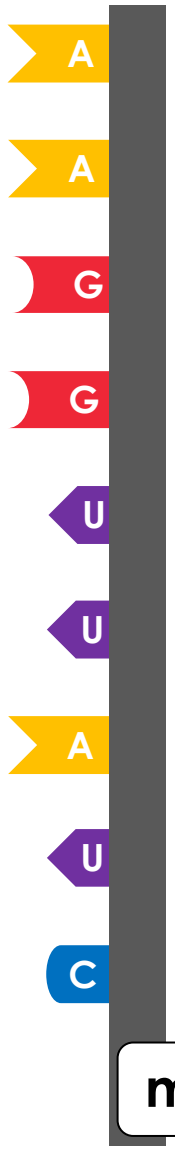
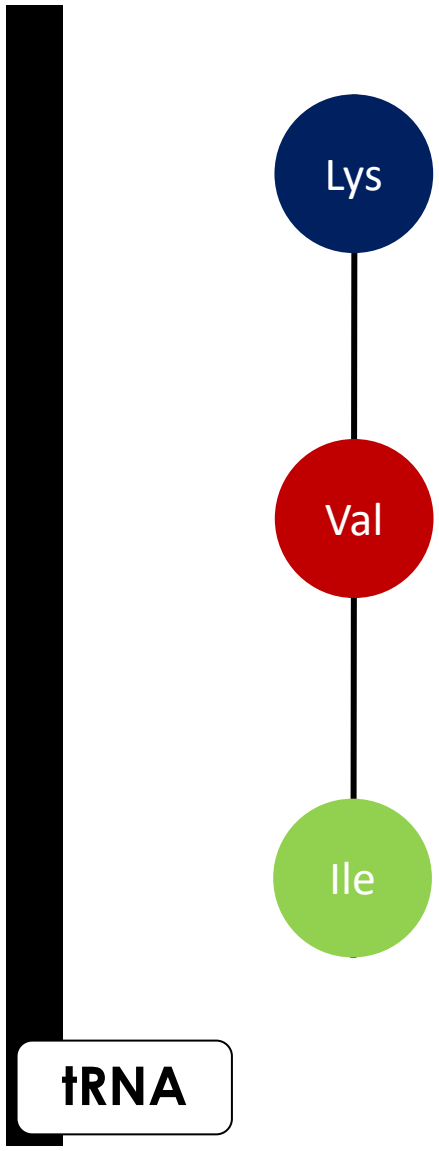
4 Determine the tRNA anticodons used during translation.



DNA



mRNA



tRNA

DNA base triplet	amino acid
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TTC	Lys
AAT	Leu
CTA	Asp

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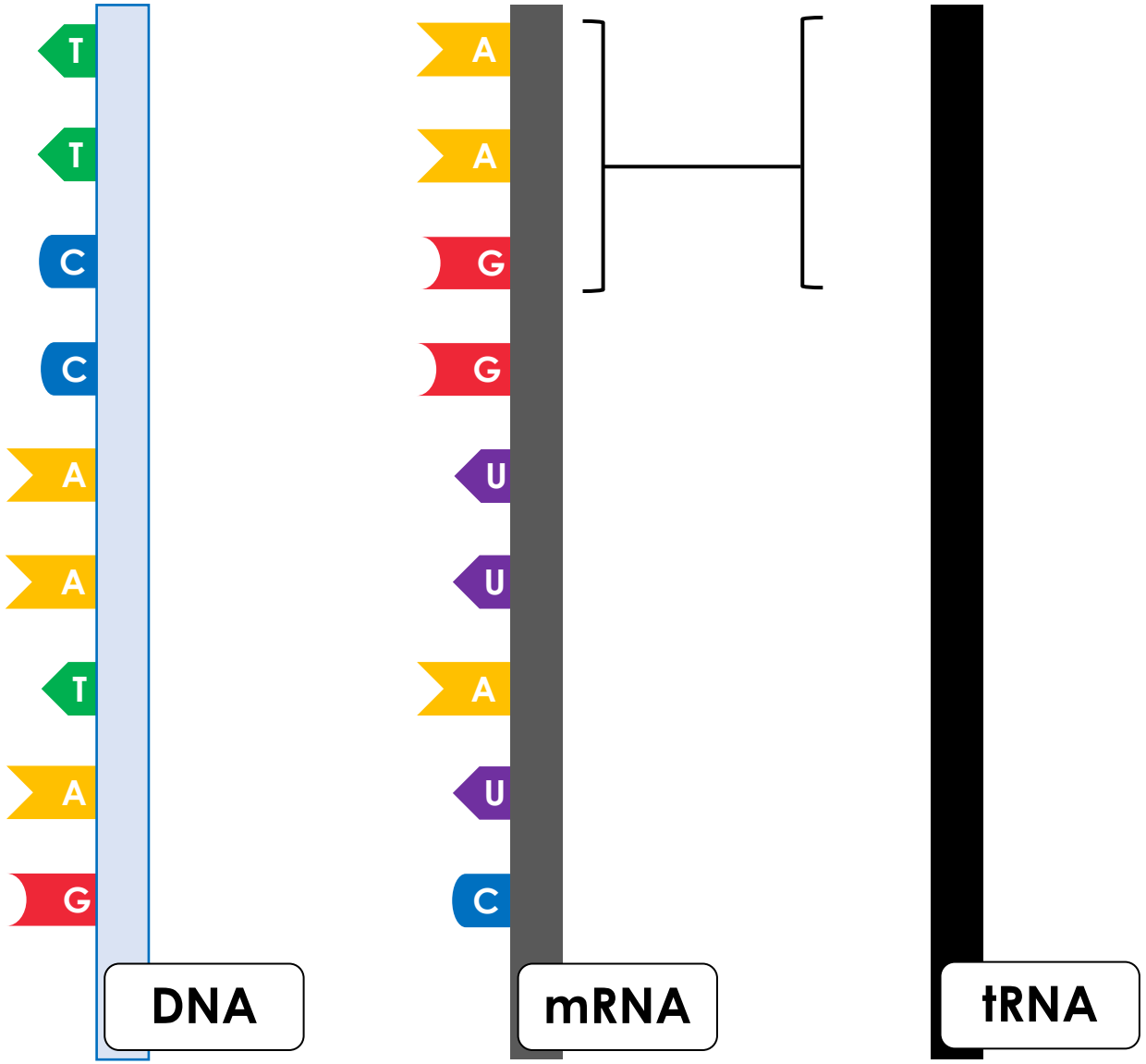

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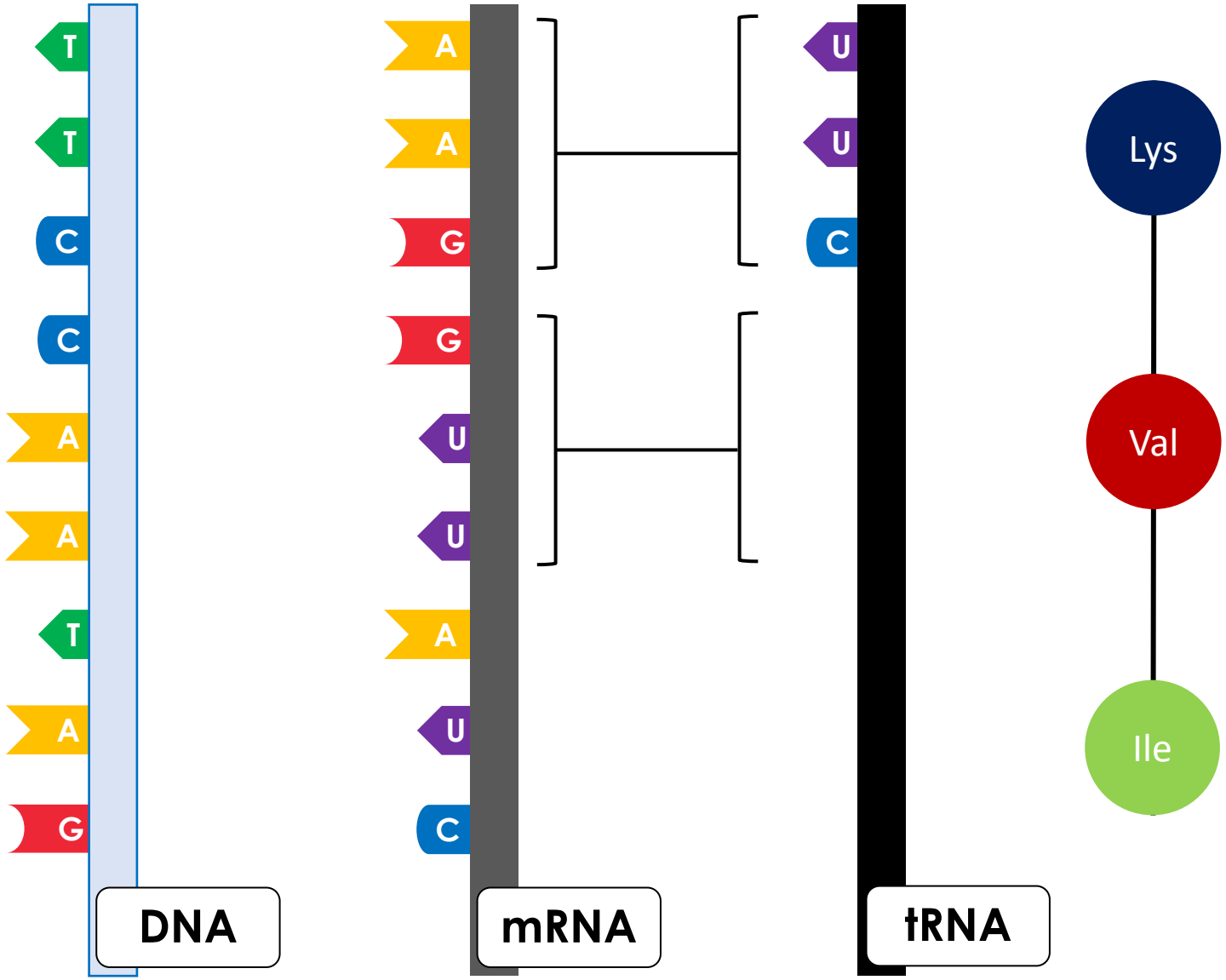

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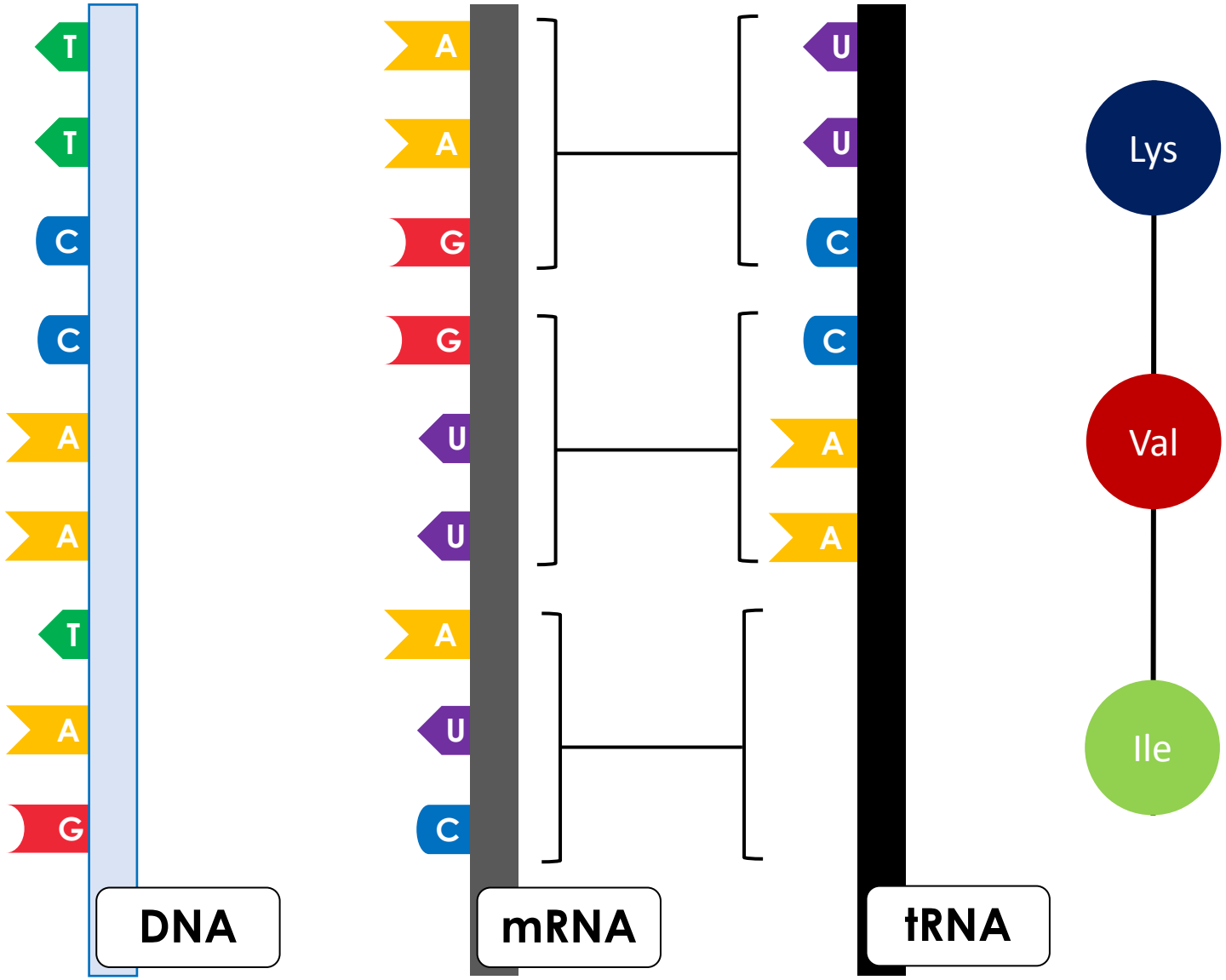

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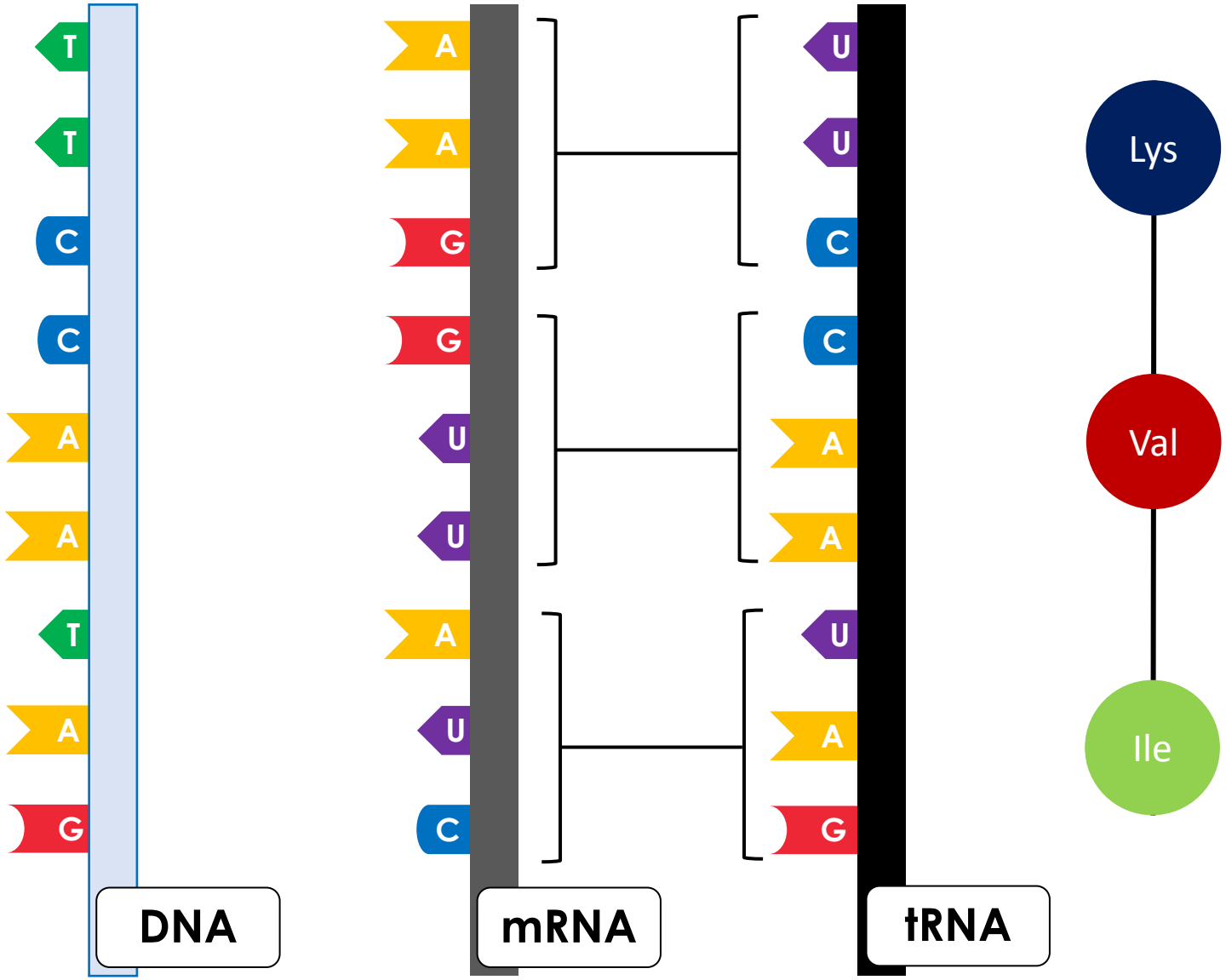

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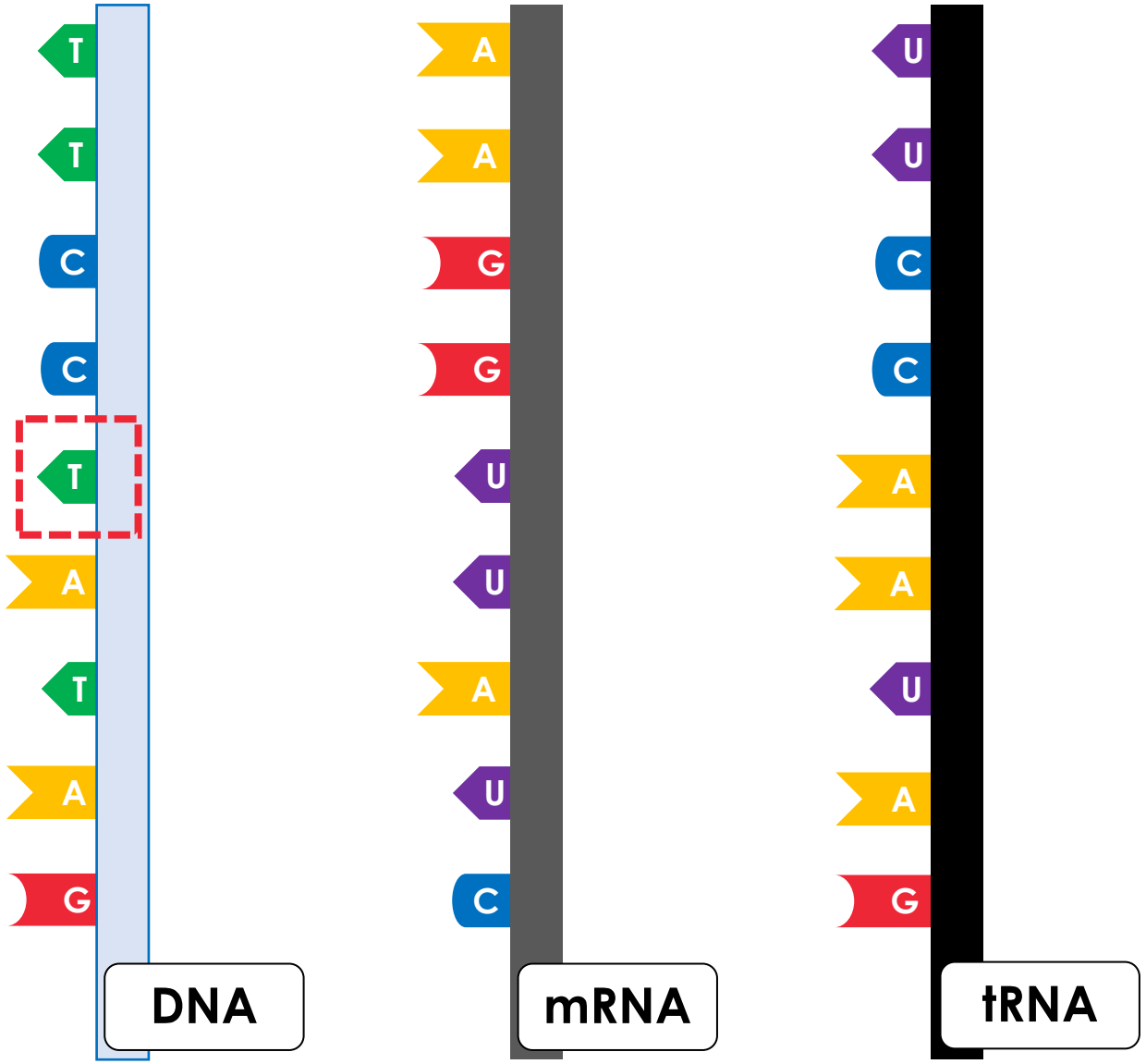
5 A gene mutation occurs. Explain what happens.



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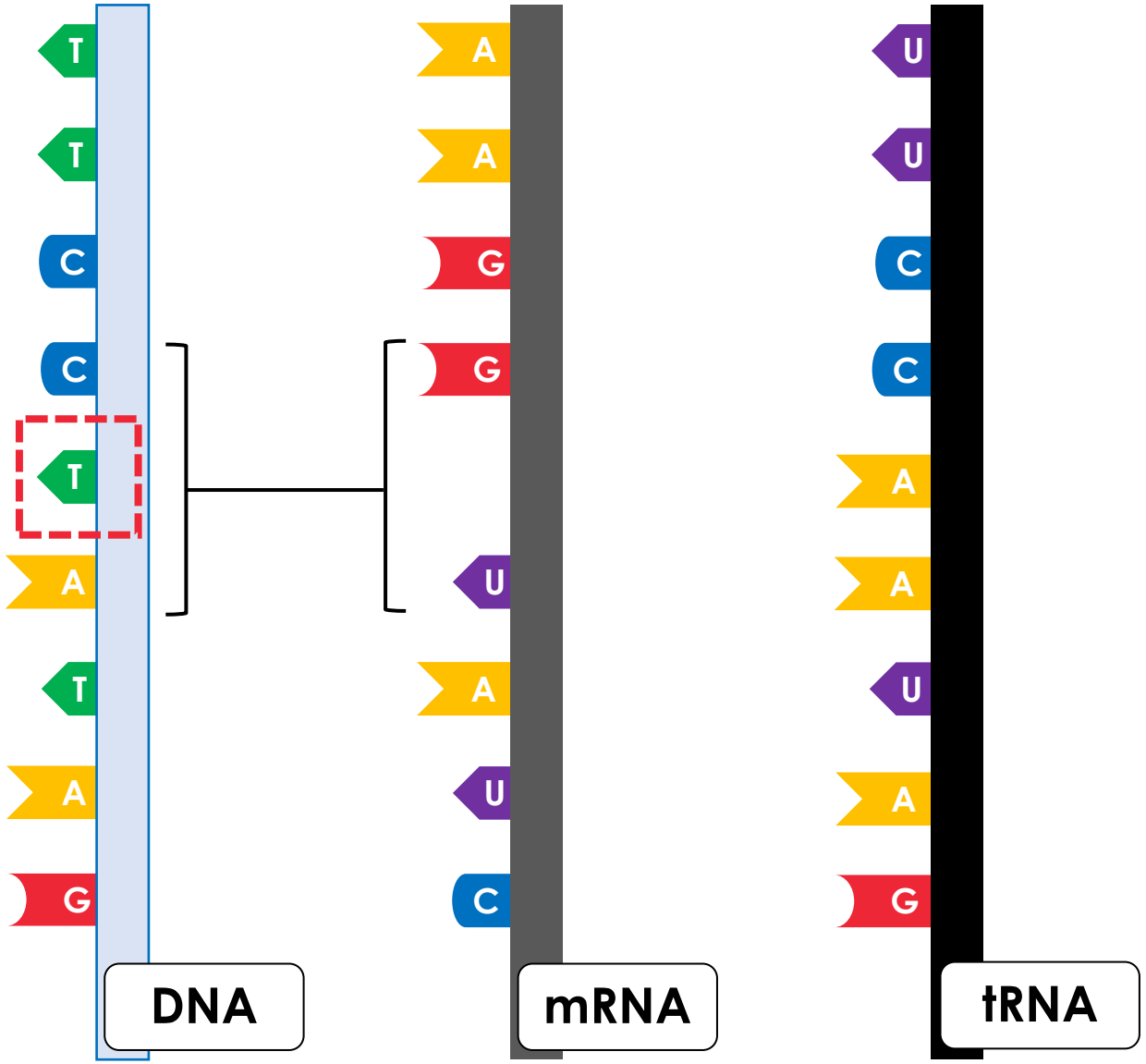

DNA base triplet	amino acid
AGC	Ser
TAG	Ile
CAA	Val
TTC	Lys
AAT	Leu
CTA	Asp

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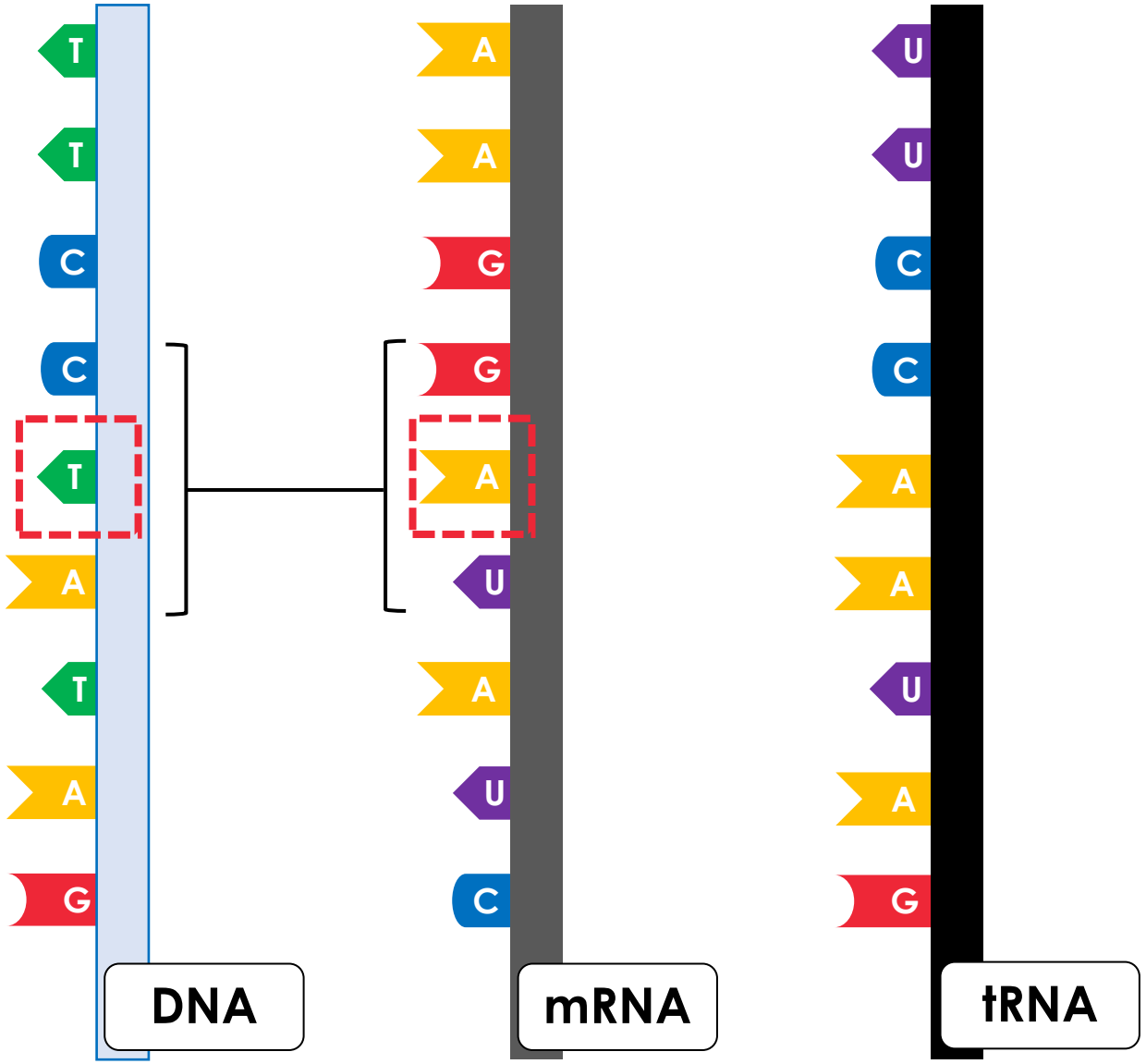

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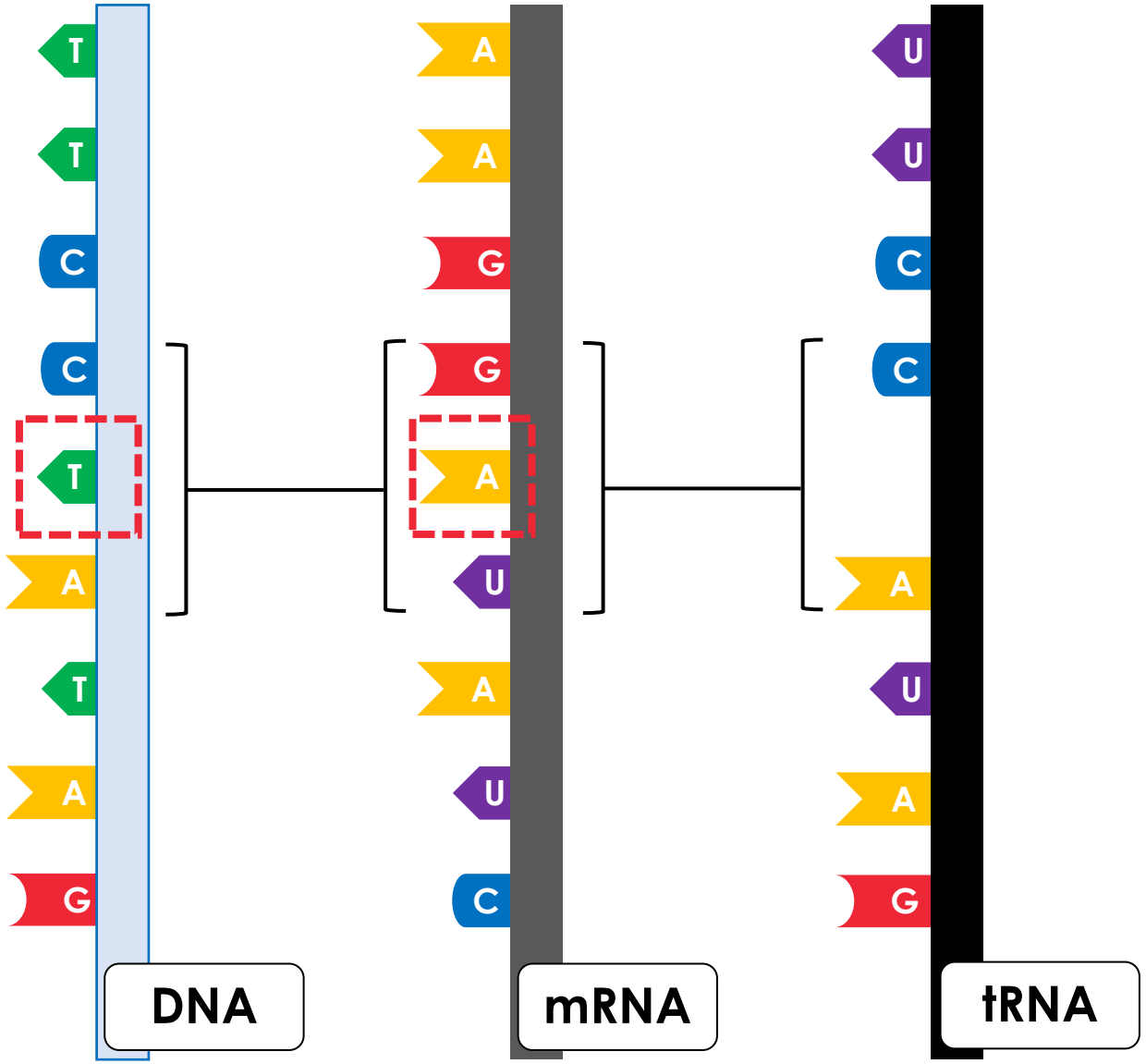

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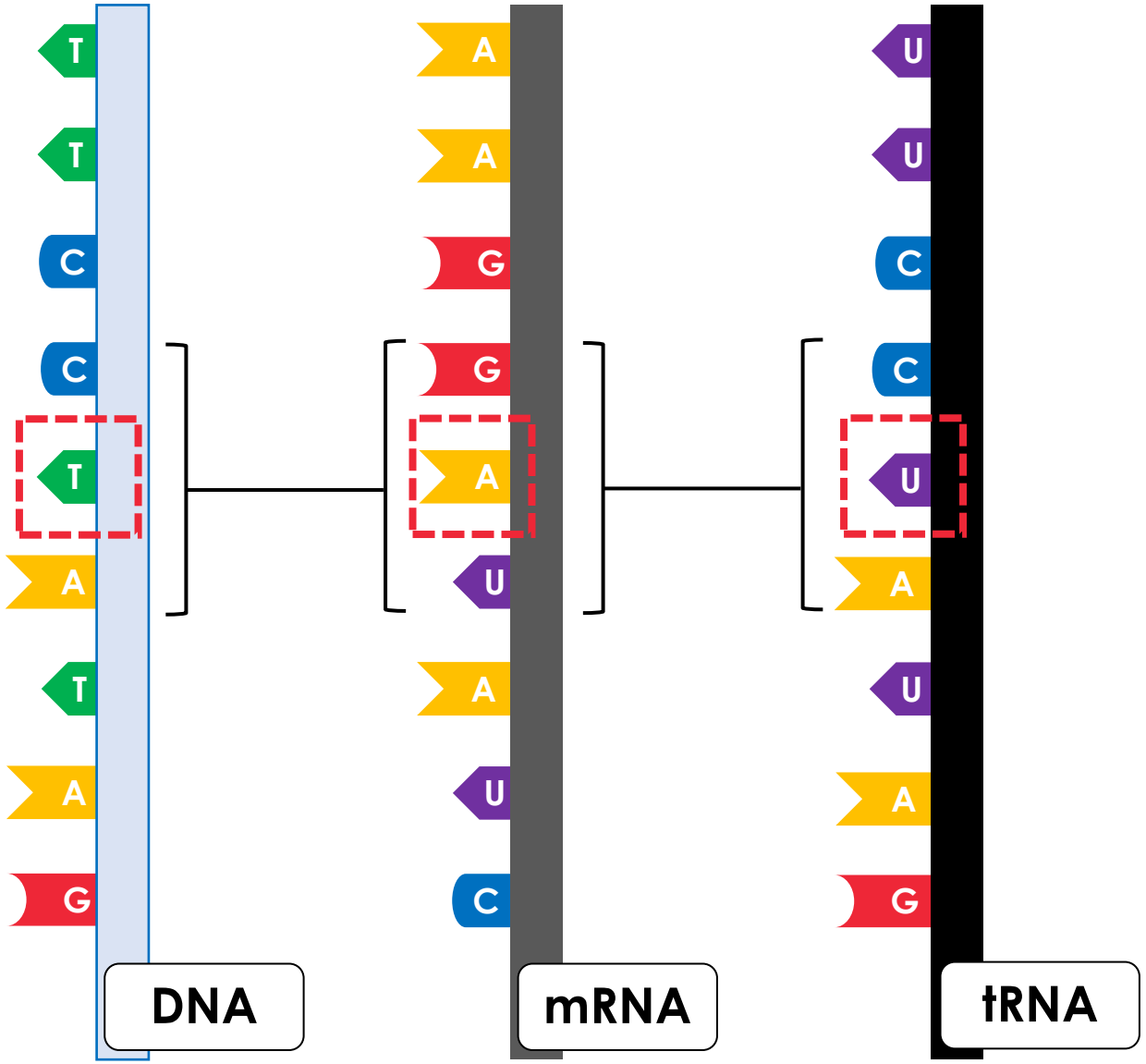

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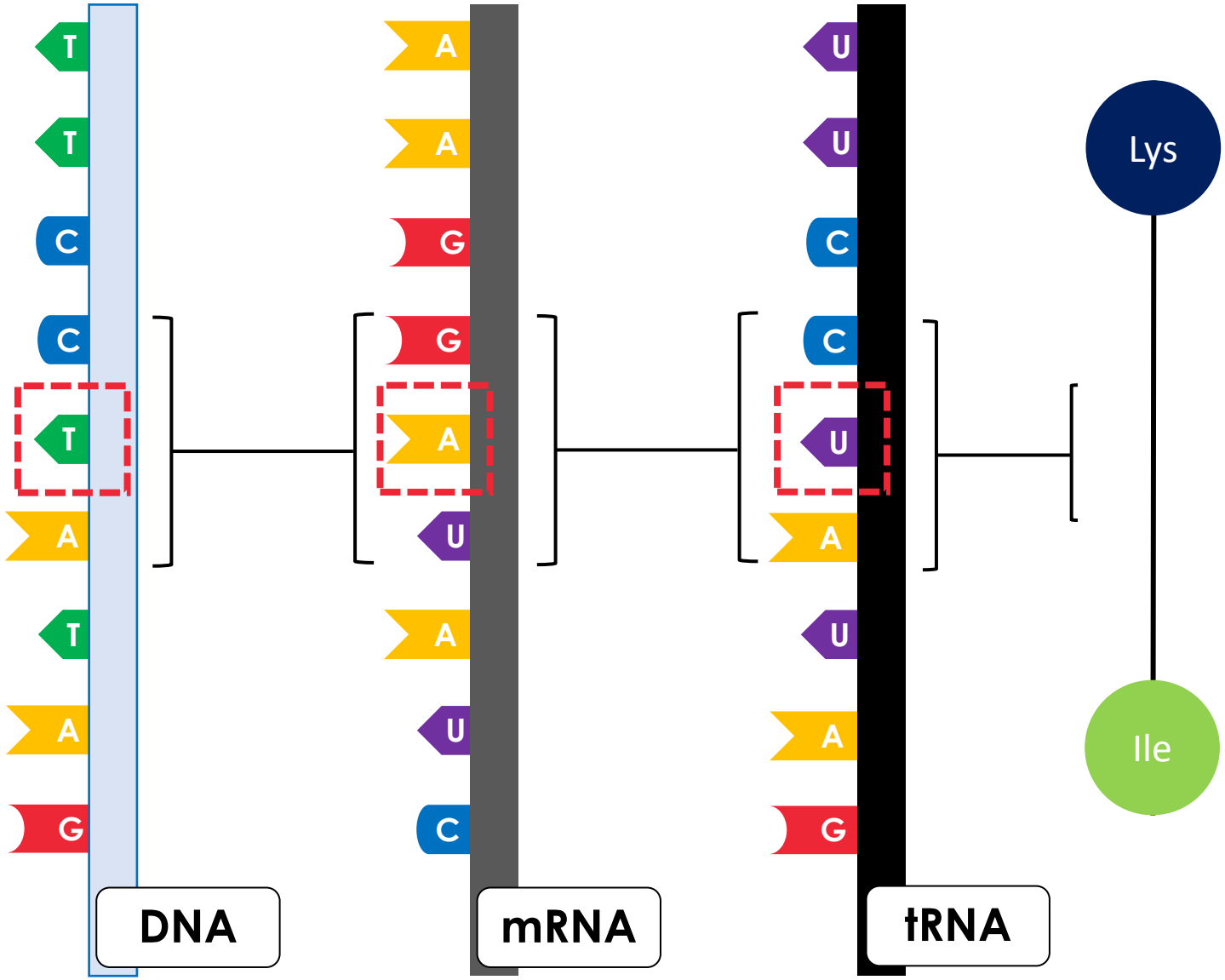

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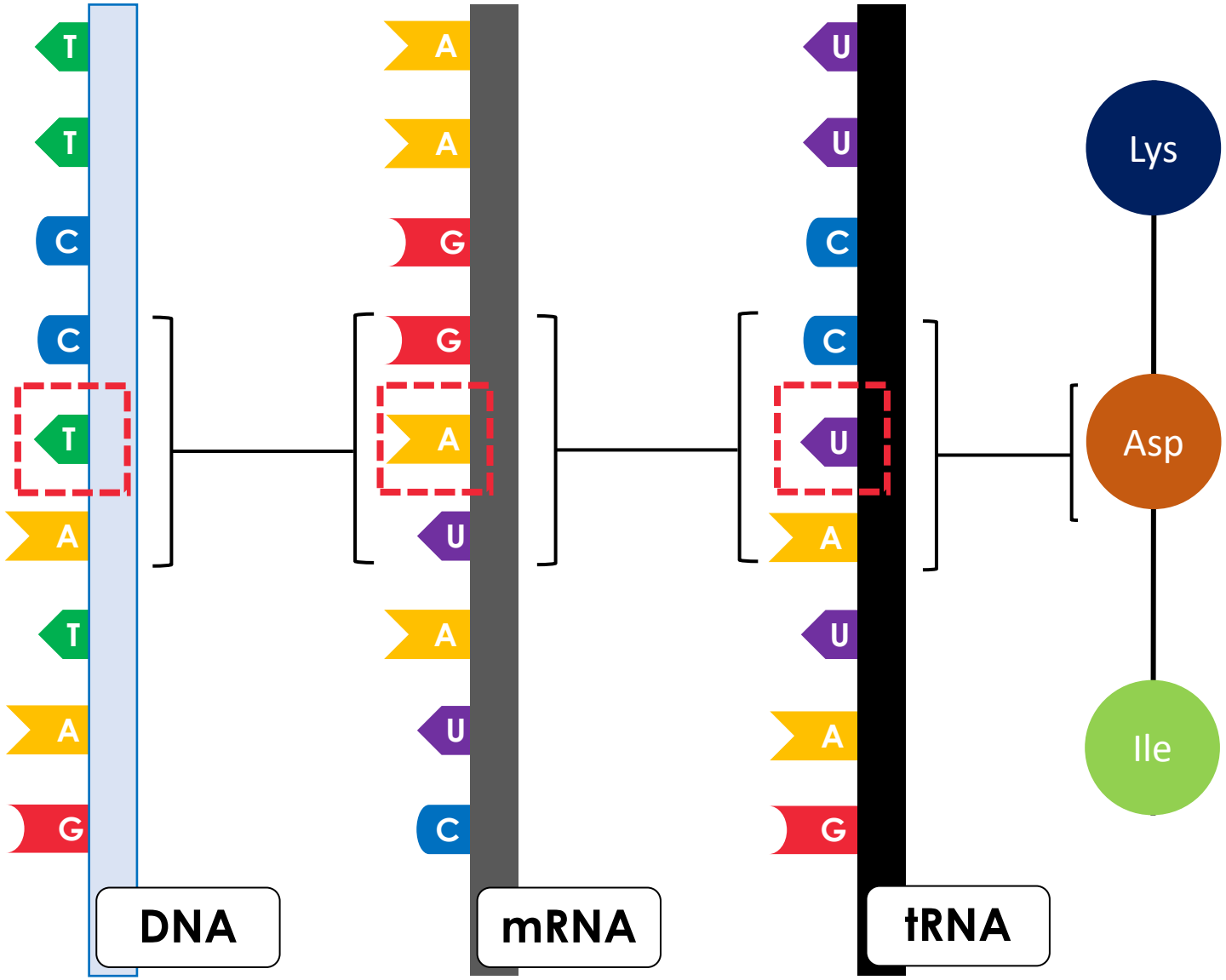

Protein structure and function may change.

DNA base triplet	amino acid
AGC	Ser
TAG	Ile
CAA	Val
TTC	Lys
AAT	Leu
CTA	Asp

END

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