

Exercise 1

ADN	anti-sens brin sens	5'-TTACGTATTTCGAA-3' 3'-AATGCATAAAGCTT-5'
ARN		5'-UUCGAAAUACGUAA-3'

Exercise 2

brin sens

5'-**T**TGCACGCAT **T**AAGCATATA **A**AGCACCAGC **A**TGCCGTACA **C**AATGACGGC
-50 -40 -30 -20 -10

TTACGTCCGC **C**TAGTTCAAG **G**CATCGAAGCA **A** -3'
+1 +10 +20 +30

5'- UUACGUCCGC CUAGUUCAAG CAUCGAAGCA -3'

ARN

Exercice 3

5'-AUCCGACUGC GAAUGUAUGC ACCAUGGACA GUAGCUUCAC CGUAAUGUUA

N- Met Asp Ser Ser Phe Thr Val Met Leu

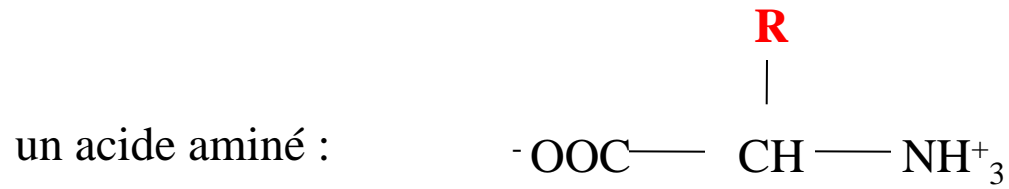
CGCAGCUGAA GCCAUAAGCA UGCCCAUCAG-3'

Arg Ser -C

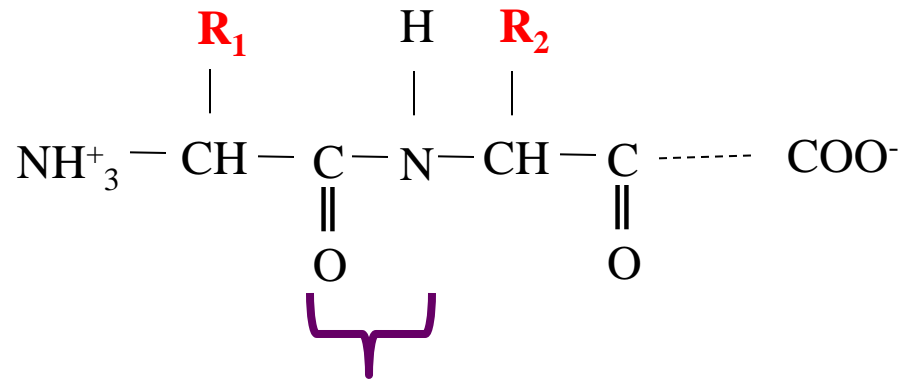
11 aa

Code génétique (de l'ARN en acides aminés)

Première position (extrémité 5')	Seconde position				Troisième position (extrémité 3')
	U	C	A	G	
U	Phé	Sér	Tyr	Cys	U
	Phé	Sér	Tyr	Cys	C
	Leu	Sér	Stop	Stop	A
	Leu	Sér	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	Sér	U
	Ile	Thr	Asn	Sér	C
	Ile	Thr	Lys	Arg	A
	Mét	Thr	Lys	Arg	G
G	Val	Ala	Asp	Gly	U
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	Val	Ala	Glu	Gly	A
	Val	Ala	Glu	Gly	G

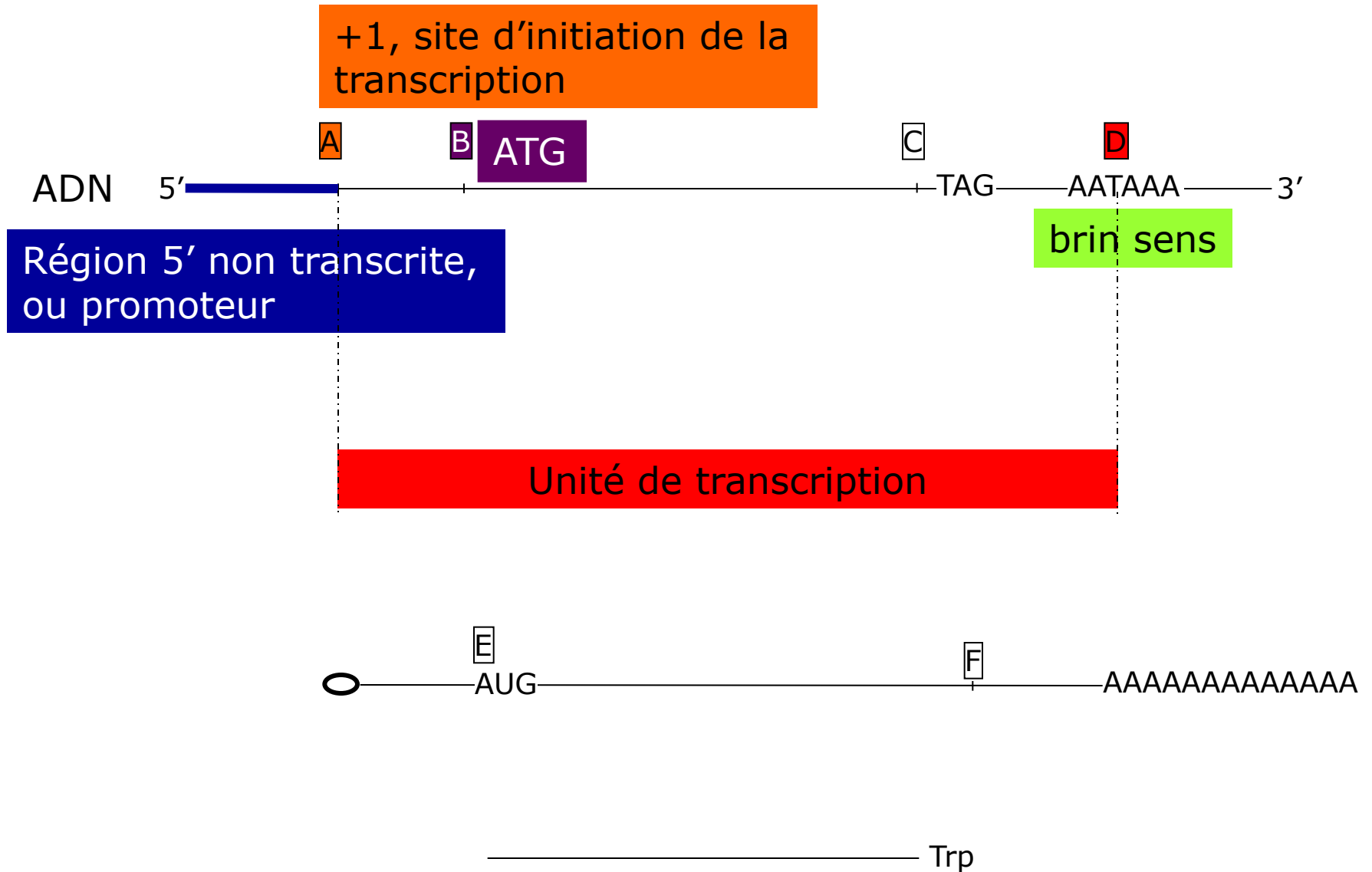


un peptide :

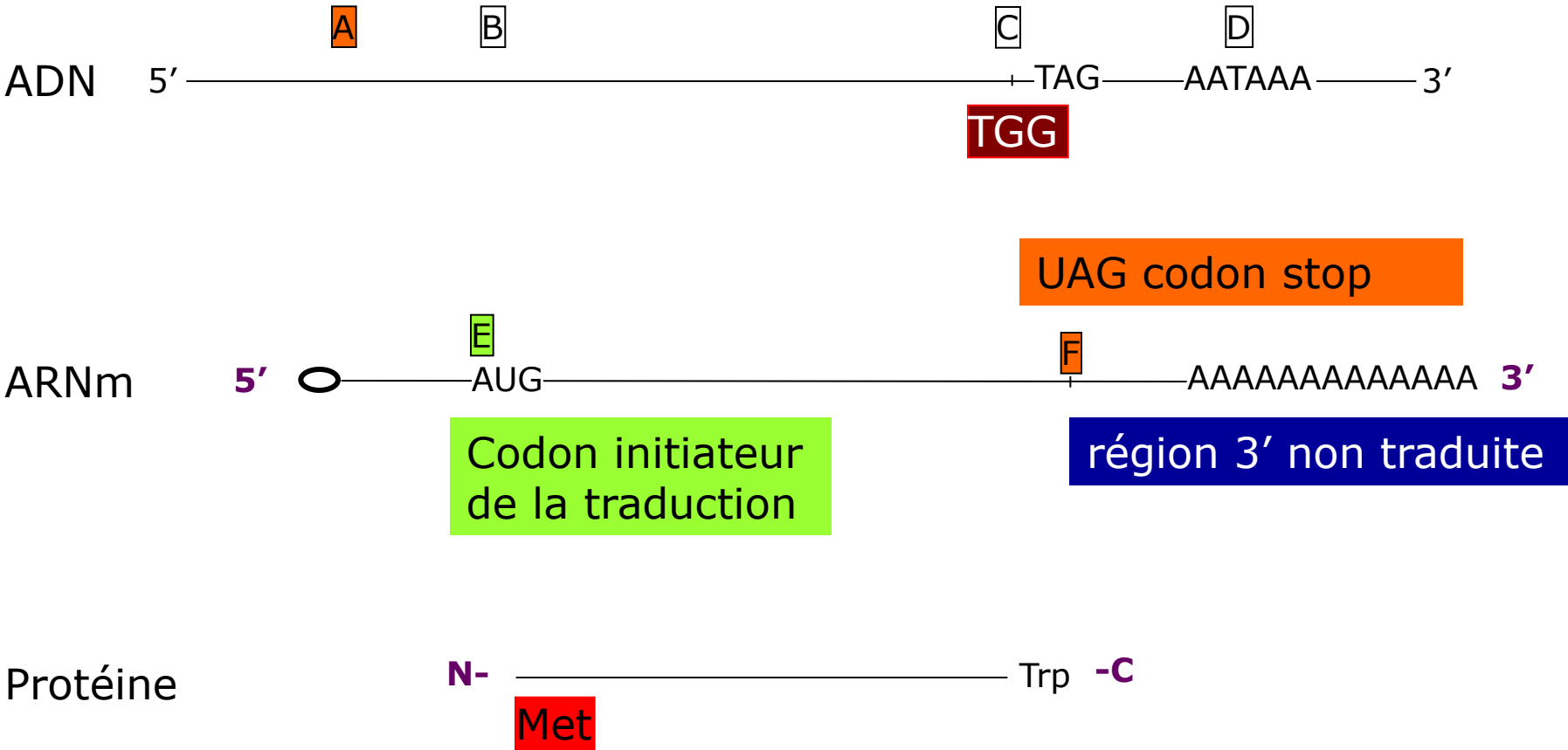


Liaison peptidique

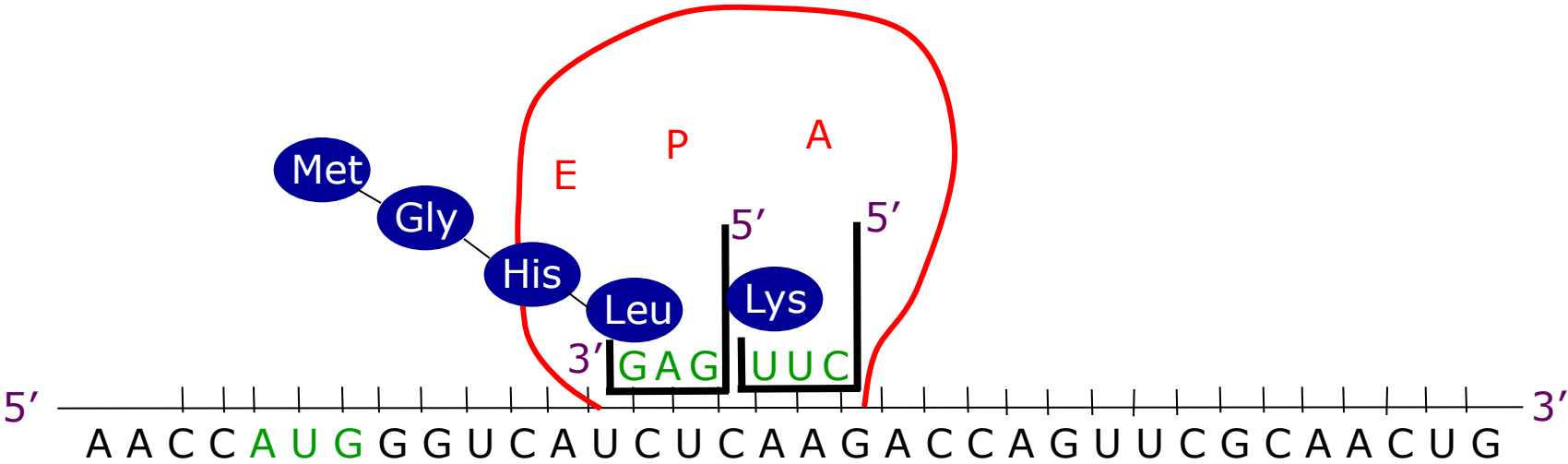
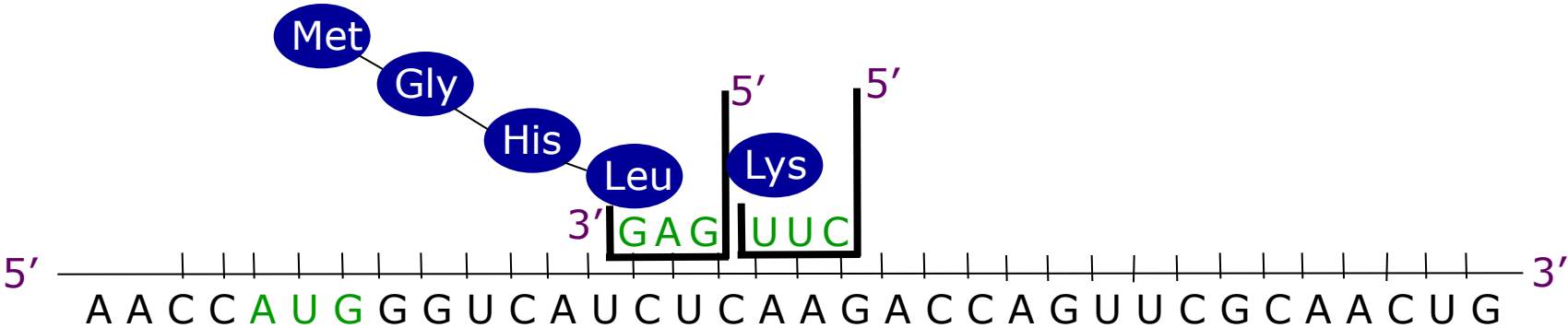
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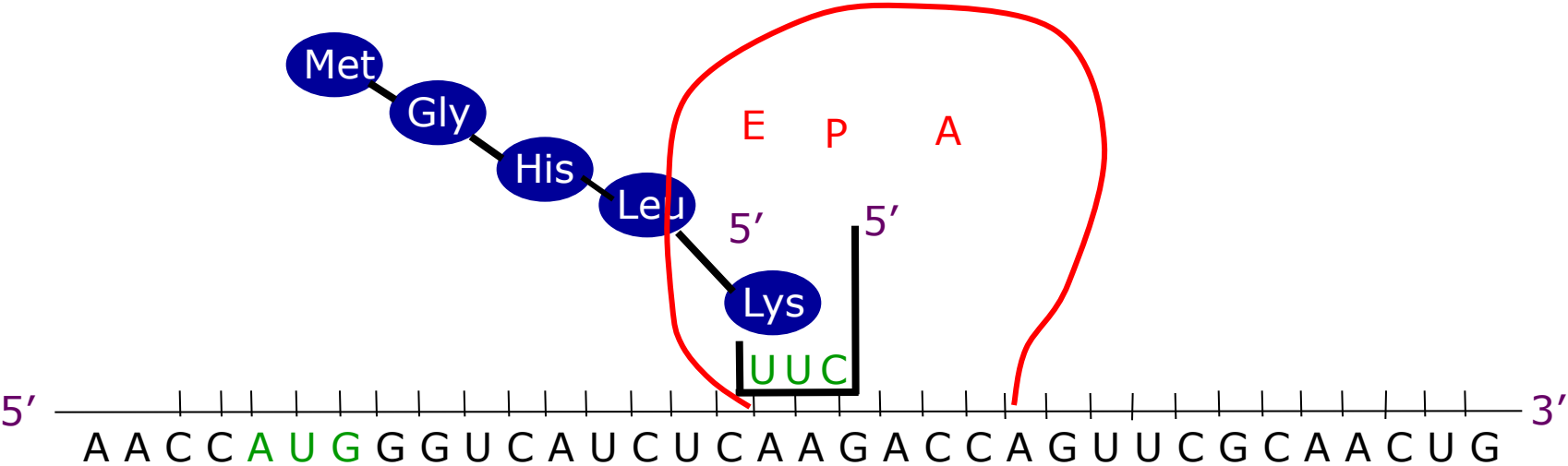
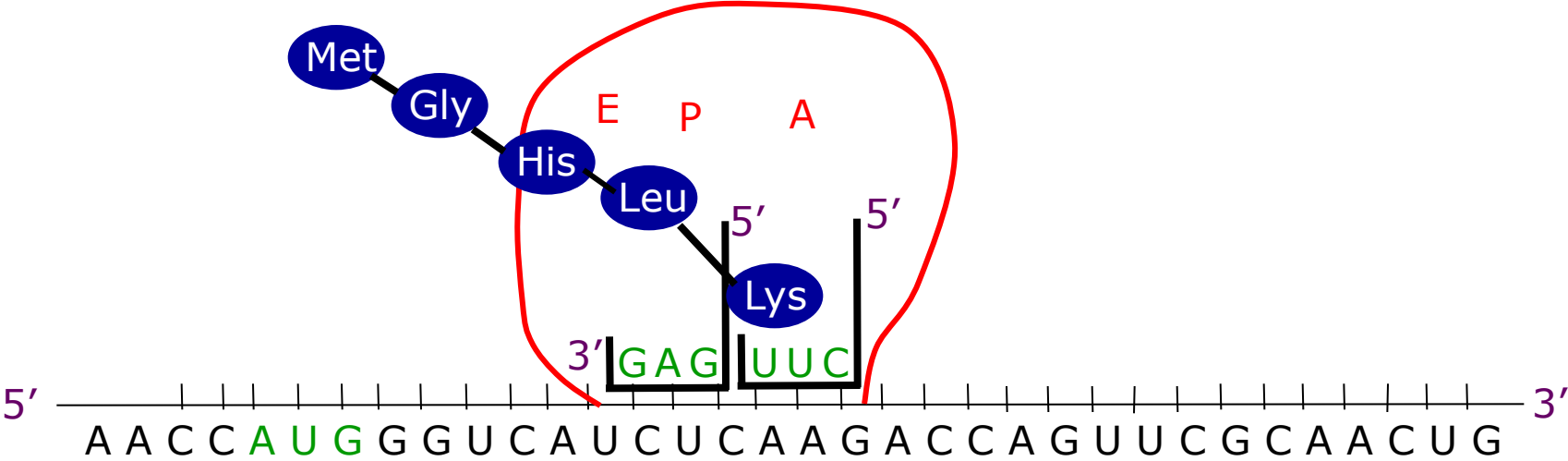
Exercice 4



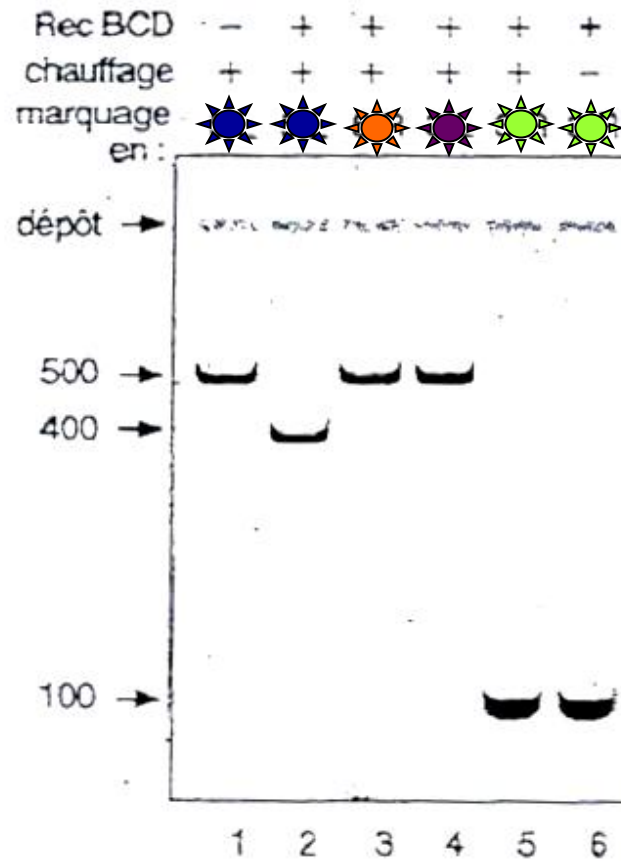
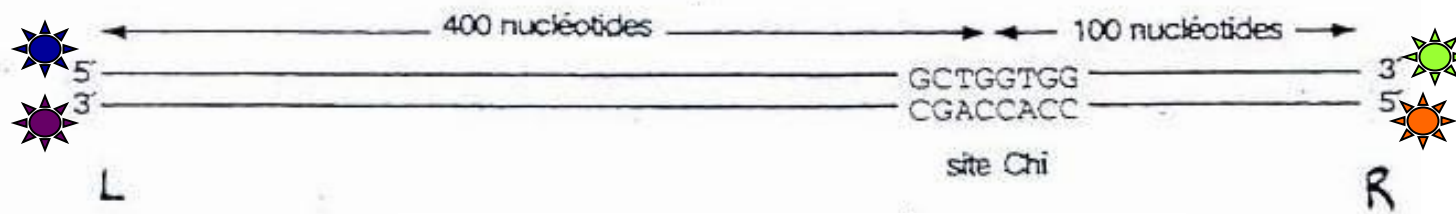
Exercise 5



Exercise 5



Exercice 6



Exercice 7

a ARNm 5'-ACAGUAAAG-3' transcription débute au 1ier nucléotide

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121 atatatagca ttgttttaca agtttttagag ttgaatgtat atgaattgtc atactattta
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b

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d

Intron	6 premiers nucléotides	6 derniers nucléotides
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3	GUA AAC	UAA UAG
4	GUA AGU	GUC CAG
5	GUA AGA	UAA UAG
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