

## Séquence 1 :

AGAGTTGCGGGCTTCGCTCGGCTCGGGTTCCCCACGATCTCTCACCTGTGTTTCGGCG  
GAGTTGCGGGGTTCCCTCTGCTCCCGGTCCCTGAGATCCCTGATCCCGCTCTCAGGGC  
AGGGAATTCCGGGGTTGCCCCCTGCGGCTTCCCGCGATCCCAGAGCCCGGTTCCAAC  
AGAATTGGGAGGGTTTATTGCGCTAGAGGAGTCTTCAGGATCTTCGCTCCCGCCCTCCGA  
Ggtgaggctagaggggaggggttcgaccta (...) acaatatgactcattgtcgtgtgctcca  
gGTGGCCCTGAGAAGGCAGCAGGCCAGGAGGAAATGGGTATCAGCCACCCCATCCC  
ACTGCCAGTGCAGCCGAGCTGCTTGTCAAAAGAGAGAACAATGGCAGTAACCCGTGCCT  
CATGACTGAGTGCAGTGGCACCTCTCAGCCACCGCCGCCAGTGTCCCCACCACTGCAGC  
M T E C S G T S Q P P P A S V P T T A A 20  
TTCAGgtaatctggaggggctgggggttcac (...) tctagagatttttctttttcttccaa  
S 21  
tttagAGGGACGTATGGTTCATCCAGGATATTCCTGCTGTACCAGCAGAGGGCATGTGGA  
E G R M V I Q D I P A V T S R G H V E 40  
GAACACACCTGACCTGGTTTCAGACTCCACCTACTACAGCAGCTTCTACCAGCCGTCTCT  
N T P D L V S D S T Y Y S S F Y Q P S L 60  
GTTTCCTTATTACAACAATCTATACAACTGCCCGCAGTACTCCATGGCCTTGGCTGCTGA  
F P Y Y N N L Y N C P Q Y S M A L A A D 80  
TTCTGCTTCTGGGGAGGTGGGAAATCCCTCGGGGGATCCCTGTGAAGAACAGCCTTCG  
S A S G E V G N P L G G S P V K N S L R 100  
GGGCTCCCGGACCTTATGTGCTGGTTCAGACAGGAAACCAGTGGCAGgtatgatatta  
G L P G P Y V P G Q T G N Q W Q 116  
attaccagagagt (...) tctgatgatatttcttctttttctttaagcagATGAAGAACAT  
M K N M 120  
GGAGAACCGCCATGCAATGAGCTCCAGTACAGGATGCATTCTTACTACCCGCTCCCTC  
E N R H A M S S Q Y R M H S Y Y P P P S 140  
TTACCTGGGCCAGAGCGTGCCCCAGTTCTTCACTTTTGAGGATGCTCCCTCTTACCCGGA  
Y L G Q S V P Q F F T F E D A P S Y P E 160  
AGCCAGGGCGAGCGtaggtgtctggtcacacagactggctgtggtc (...) ctttctctct  
A R A S 164  
cacctcactcgcagTATTCTCGCCGCCAGCAGTCAAGATTCTGGCTTGGTTTCCCTCTC  
V F S P P S S Q D S G L V S L S 180  
GAGCAGCTCTCCTATTAGTAACAAGAGCACAAAGGCAGTGCTTGAATGTGAGCCTGCGTC  
S S S P I S N K S T K A V L E C E P A S 200  
GGAGCCCAGCAGCTTACAGTCACTCCCGTCATCGAGGAGGACGAGTGAGCAGTGCCTGC  
E P S S F T V T P V I E E D E \* 215  
TGCCGATGGCGGTTCACTTGGAGTAACAGGCTTATCCACTTTCCATGGGGTTTGTAAAT  
ATTTTGCATTGACTCATACTATCTTAAGTGTGAGAACGTATTTGGTTTATGGTTTAAAGT  
TATTCCTTAGAGTTTAGTCCAGAGGCTGTAACACATTTGTAATACTTTAGGGTCCGTGAC  
TACCATCTGCATGGTTTAAAGTGCTTTACTCACGGAGTTTAAATAATAGTGTTCATTTTTT  
TAATGACACTGGTTTCATGTAGTTTTCAAGAAATAAAGAATTCATTCAAGTGAAGCCAT  
TTGTGTGCCTCTAAATGAGTCATCTAATTAGATGTTACTTTTAGTTTTAAAATGAAATCT  
TAGGTGCCTTAGGGG (...)

## Séquence 2 :

AGAGTTGCGGGCTTCGCTCGGCTCGGGGTCCCCACGATCTCTCACCTGTGTTTCGGCG 60  
GAGTTGCGGGGGTTCCTCTGCTCCCGGTCCCTGAGATCCCTGATCCCGCTCTCAGGGC 120  
AGGGAATTCGGGGTTCGCCCTCTGGGCTTCCCGCGATCCCAGAGCCCGGTCCAAC 180  
AGAATTGGGAGGGTTTATTGCGCTAGAGGAGTCTTCAGGATCTTCGCTCCCGCCCTCCGA 240  
GGTGGCCCTGAGAAGGCAGCAGGCCAGGAGGAGGAATTGGGTATCAGCCACCCATCCC 300  
ACTGCCAGTGCAGGCTGCTTGTCAAAGAGAGAACAATGGCAGTAACCCGTGCCT 360  
CATGACTGAGTGCAGTGGCACCTCTCAGCCACCGCCGCGCAGTGTCCCCACCACTGCAGC 420  
M T E C S G T S Q P P P A S V P T T A A 20  
TTCAGAGGGACGTATGGTCATCCAGGATATTCCTGCTGTCACCAGCAGAGGGCATGTGGA 480  
S E G R M V I Q D I P A V T S R G H V E 40  
GAACACACCTGACCTGGTTTCAGACTCCACCTACTACAGCAGTTCTACCAGCCGTCTCT 540  
N T P D L V S D S T Y Y S S F Y Q P S L 60  
GTTTCCTTATTACAACAATCTATACTGCCCCGAGTACTCCATGGCCTTGGCTGCTGA 600  
F P Y Y N N L Y N C P Q Y S M A L A A D 80  
TTCTGCTTCTGGGGAGGTGGGAAATCCCCTCGGGGGATCCCCTGTGAAGAACAGCCTTCG 660  
S A S G E V G N P L G G S P V K N S L R 100  
GGCCTCCCGGACCTTATGTGCTGGTCAGACAGGAAACCAGTGGCAGATGAAGAACAT 720  
G L P G P Y V P G Q T G N Q W Q M K N M 120  
GGAGAACCGCCATGCAATGAGCTCCCAGTACAGGATGCATTCTTACTACCCGCTCCCTC 780  
E N R H A M S S Q Y R M H S Y Y P P P S 140  
TTACTGGGCCAGAGCGTGCCTTCTTACTTTTGGAGATGCTCCCTCTTACCCGGA 840  
Y L G Q S V P Q F F T F E D A P S Y P E 160  
AGCCAGGGCAGCGTATTCTCGCCGCCAGCAGTCAAGATTCTGGCTTGGTTTCCCTCTC 900  
A R A S V F S P P S S Q D S G L V S L S 180  
GAGCAGCTCTCCTATTAGTAACAAGAGCACAAAGGCAGTGTGCTTGAATGTGAGCCTGCGTC 960  
S S S P I S N K S T K A V L E C E P A S 200  
GGAGCCCAGCAGCTTACAGTCACTCCCGTCATCGAGGAGGACGAGTGTGAGCAGTGCCTGC 1020  
E P S S F T V T P V I E E D E \* 215  
TGCCGATGGCGGTTCACTTGGAGTAACAGGCTTATCCACTTTCCATGGGGTTTGTAAAT 1080  
ATTTGCAATGACTCATACTATCTTAACTGTTGAGAACGTATTTGGTTTATATTCCTTAT 1140  
GAGTTTAGTCCAGAGGCTGTAACACATTTGTAATACTTTAGGGTCCGTGACTACCATCTG 1200  
CATGGTTTAAAGTGCTTACTCACGGAGTTTAAATAATAGTGTTCATTTTTTTAATGACAC 1260  
TGGTTTCATGTAGTTTTCAAGAAATAAAGAATTCATCAAGTGAAGCCATTTGTGTGCC 1320  
TCTAAATGAGTCATCTAATTAGATGTACTTTTTAGTTTTAAATGAAATCTTAGGTGCCT 1380  
TAGGGG (...)

## LE CODE GENETIQUE

|   |   | ARN messenger<br>Codon : deuxième base azotée  |     |      |      |   |
|---|---|--|-----|------|------|---|
|   |   | U  | C   | A    | G    |   |
| ARN messenger<br>Codon : première base azotée | 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 |
|   |   | ARN messenger<br>Codon : troisième base azotée |     |      |      |   |

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