## **SEQUENCE D'ADN bactérien**

GATTACCTGCGGCAAAACATTGCGCAACAGCATGATCTCGACTCGCTGGCGCAGCGAGTAATGATGAGTC	70
GCCGCACATTAACTCGCCATTTTATGAAAGCGACCGGTTCGAGTATCGCCGAATGGCTCATTACTGAACG	140
$\tt CTTACGCCGTAGCCAGGAACTGTTGGGATCCAGTCAGTTGCCCGTTGAGCGGATAGCGGCTGAGGTGGGT$	210
$\tt TTTCTCTCACCTGTGACCTGGCGTCAGCATTTTAAATCTCACTTCGGCGTCAGCCCC{\color{red} TTATC} ATGGCGCA$	280
A A A C C T T C G C G C G G G G G G G G	350
AACGCTATACGATGTCGCAGAGTATGCCGGTGTCTCTTATCAGACCGTTTCCCGCGTGGTGAACCAGGCC	420
AGCCACGTTTCTGCGAAAACGCGGGAAAAAGAGGAAGCGGCGATGGCGGAGCTGAATTACATTCCCAACC	490
GCGTGGCACAACAACTGGCGGGAAACAGTCGTTGCTGATTGGCGTTGCCACCTCCAGTCTGGCCCTGCA	560
$\tt CGCGCCATCGCAAATTGTCGCGCGATTAAATCTCGCGCCGATCAACTGGGTGCCAGCGTGGTGTTCG$	630
ATGGTAGAACGAAGCGGCGTCGAAGCCTGTAAAGCGGCGGTGCACAATCTTCTCGCGCAACGCGTCAGTG	700
GGCTGATCATTAACTATCCGCTGGATGACCAGGATGCCACTGCTGTGGAAGCAGCCTGCGCTAATGTTCC	770
GGCGTTATTTCTTGATGTCTCTGACCAGACTCCCATCAACAGTATTATTTTCTCCCATGAAGACGGTACG	840
$\tt CGACTGGGCGTGGAGCATCTGGTCGCATTGGGTCACCAGCAAATCGCGCTGTTAGCGGGTCCATTAAGTT$	910
$\tt CTGTCTCGGCACGTCTGCGTCTGGCGGGCTGGCATAAATATCTCACACGCAATCAAATTCAGCCGATAGC$	980
GGAACGGGAAGGCGACTGGAGTGCCATGTCCGGTTTTCAACAAACCATGCAAATGCTGAATGAGGGCATC	1050
GTTCCCACTGCGATGCTGGTTGCCAACGATCAGATGGCGCGCGAATGCGCGCCATTACCGAGTCCG	1120
GGCTGCGCGTTGGTGCGGATATCTCGGTAGTGGGATACGACGATACCGAAGACAGCTCGTGTTATATCCC	1190
GCCGTTAACCACCATCAAACAGGATTTTCGCCTGCTGGGGCAAACCAGCGTGGACCGCTTGCTGCAACTC	1260
TCTCAGGGCCAGGCGGTGAAGGGCAATCAGCTGTTGCCCGTCTCACTGGTGAAAAGAAAAACCACCCTGG	1330
CGCCCAAGACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAAGTTTC	1400
CCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTCAGCTCACTCA	1470
TTTACACTTTATGCGTCCGGCTCGTATGTTGTGTGAAATTGTGAGCGAATAACAATTTCACACAGGATAC	1540
AGCTATGACTATGATTACGGATTCACTGGCCGTCGTATTACAACGTCGTGACTGGGAAAACCCTGGCGTT	1610
ACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCA	1680
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	1820
ATGCACGGTTACGACGCCCCATCTACACCAACGTGACCTATCCTATTGCGGTCAATCCGCCGTTTGTTC	1890
CCGCAGAAAATCCGACAGGTTGTTACTCGCTCACATTTAATGTTGATGAAAGCTGGCTACAGGAAGGCCA	1960
GACGCGAATTATTTTTGATGGCGTTAACTCGGCGTTTCATCTGTGGTGCAACGGGCGCTGGGTCGGTTAC	2030
GGCCAGGACAGCCGTTTGCCGTCTGAATTTGACCTGAGCGCATTTTTACGCGCCCGGAGAAAACCGCCTCG	2100
CGGTGATGGTGCTGCGCTGGAGTGACGGCAGTTATCTGGAAGATCAGGATATGTGGCGGATGAGCGGCAT	2170
TTTCCGTGACGTCTCGTTGCTGCACAAACCGACCACACAAATCAGCGATTTCCATGTTGCCACTCGCTTT	2240
AATGATGATTTTAGCCGCGCGGTACTGGAGGCAGAAGTTCAGATGTACGGCGAGCTGCGCGATGAGCTGC	2310
GGGTGACGGTTTCTTTGTGGCAGGGTGAAACGCAGGTCGCCAGCGGCACCGTGCCTTTCGGCGGTGAAAT	2380
TATCGATGAGCGTGGCGGTTATGCCGATCGCGTCACACTAGGTCTGAACGTCGAAAACCCGAAACTGTGG	2450
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	2590
GTTGCTGATTCGCGGCGTTAACCGTCACGAGCATCATCCTCTGCATGGTCAGGTCATGGATGAGCAGACG	
ATGGTGCAGGATATCCTGCTGATGAAGCAGAACAACTTTAACGCCGTGCGCTGTTCGCATTATCCGAACC	
ATCCGCTGTGGTACACGCTGTGCGACCGCTACGGCCTGTATGTGGTGGATGAAGCCAATATTGAAACCCA	
CGGCATGGTGCCAATGAATCGTCTGACCGATGATCCGCGCTGGTTACCGGCGATGAGCGAACGCGTAACA	
CGAATGGTGCAGCGCGATCGTAATCACCCGAGTGTGATCATCTGGTCGCTGGGGAATGAGTCAGGCCACG	
	3010
CGGCGGAGCCGACCCTATCGCTGGATTATTTTGCCCGATGTACGCGCGCG	
TTCCCGGCGGTGCCGAAATGGTCCATCAAAAAATGGCTTTCGCTGCCTGGAGAACTGCGCCGCTGATCC	
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GTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCGAATACCTGTTCCGTCATAGCGATAACGAGCTC CTGCACTGGACGGTGGCGCTGGATGGTAAGCCGCTGGCGAGTGGTGAAGTGCCTCTGGATGTCGCTCCAC	
DAT DEDITED	33/0

AAGGTAAACAGGTGATTGAACTGCCTGAACTACCGCAGCCGGAGAGCGCCGGACAACTCTGGCTAACGGT 3640 TCACGTAGTGCAACCGAACCGCATGGTCAGAAGCCGGACACATCAGCACCTGGCAGCAGTGGCGT 3710 CTGGCGGAAAACCTCAGCGTGACACTCCCCTCCGCGCCCCACGCCATCCCGCAACTGACCACCAGCGAAA 3780 GTGGATTGGCGATGAAAAACAACTGCTGACCCCGCTGCGCGATCAGTTCACCCGCGCACCGCTGGATAAC 3920 GACATTGGCGTAAGTGAAGCGACCCGTATTGACCCTAACGCCTGGGTCGAACGCTGGAAGGCGGCGGCC 3990 ATTACCAGGCCGAAGCGGCGTTGTTGCAGTGCACGCAGATACACTTGCCGACGCGGTGCTGATTACGAC 4060 CGCTCACGCCTGGCAGCATCAGGGGAAAACCTTATTTATCAGCCGGAAAACCTACTGGATTGATGGTAGT 4130 CCTGCCAGCTGGCGCAGGTAGCAGAGCGGGTAAACTGGCTCGGATTAGGGCCGCAAGAAAACTATCCCGA 4270 CCGCCTTACTGCGGCCTGTTTTGACCGCTGGGATCTGCCATTGTCAGACATGTATACCCCGTACGTCTTC 4340 CCGAGCGAAAACGGTCTGCGCTGCGGGACGCGCGAATTGAATTATGGCCCACACCAGTGGCGCGGCGACT 4410 TCCAGTTCAACATCAGCCGCTACAGCCAACAACAACTGATGGAAACCAGCCATCGCCATCTGCTGCACGC 4480 GGAAGAAGGCACATGGCTGAATATCGACGGCTTCCATATGGGGATTGGTGGCGACGACTCCTGGAGCCCG 4550 TCAGTGTCGGCGGAATTCCAGCTTAGCGCCGGTCGCTACCATTACCAGTTGCTCTGGTGTCAAAAATAAT 4620 AATAACCGGGCAGGCCATGTCTGCCCGTATTTCGCGTAAGGAAATCCATTATGTACTATTTAAAAAAACAC 4690 AAACTTTTGGATGTTCGGTTTATTCTTTTTCTTTTACTTTTTATCATGGGAGCCTACTTCCCGTTTTTC 4760 CCGATTTGGCTACATGACATCAACCATATCAGCAAAAGTGATACGGGTATTATTTTTTGCCGCTATTTCTC 4830 TGTTCTCGCTATTATTCCAACCGCTGTTTGGTCTGCTTTCTGACAAACTCGGGCTGCGCAAATACCTGCT 4900 GTGGATTATTACCGGCATGTTAGTGATGTTTGCGCCGTTCTTTATTTTTATCTTCGGGCCACTGTTACAA 4970 TACAACATTTTAGTAGGATCGATTGTTGGTGGTATTTATCTAGGCTTTTGTTTTAACGCCGGTGCGCCAG 5040 TGGCTGGGTTCTGGCTGTGCACTCATCCTCGCCGTTTTACTCTTTTTCGCCAAAACGGATGCGCCCTCTT 5260 CCGCCACGGTTGCCAATGCGGTAGGTGCCAACCATTCGGCATTTAGCCTTAAGCTGGCGCTGGAACTGTT 5330 CAGACAGCCAAAACTGTGGTTTTTGTCACTGTATGTTATTGGCGTTTTCCTGCACCTACGATGTTTTTGAC 5400 CAACAGTTTGCTAATTTCTTTACTTCGTTCTTTGCTACCGGTGAACAGGGGACGCGGGTATTTGGCTACG 5470 TAACGACAATGGGCGAATTACTTAACGCCTCGATTATGTTCTTTGCGCCACTGATCATTAATCGCATCGG 5530 TGGGAAAAACGCCCTGCTGCTGGCTGGCACTATTATGTCTGTACGTATTATTGGCTCATCGTTCGCCACC 5600 TCAGCGCTGGAAGTGGTTATTCTGAAAACGCTGCATATGTTTGAAGTACCGTTCCTGCTGGTGGGCTGCT 5670 TTAAATATATTACCAGCCAGTTTGAAGTGCGTTTTTCAGCGACGATTTATCTGGTCTGCTTCTT 5740 GCTTATCTGGTGCTGGTTGGTGGCGCTGGGCTTCACCTTAATTTCCGTGTTCACGCTTAGCGGCCCCG 5880 GCCCGCTTTCCCTGCTGCGTCGTCAGGTGAATGAAGTCGCTTAAGCAATTAATGTCGGATGCGCGCGAG 5950 CGCCTTATCCGAGGAACATATCATAACGGAATGATCGCAATGAACATGCCAATGACCGAAAGAATAAAAG 6020 CAGGCAAGCTATTTACCGATATGTGCGAAGGCTTACCGGAAAAAAGACTTCGTGGGAAAACGTTAATGTA 6090 TGAGTTTAATCACTCGCATCCATCAGAAGTTGAAAAAAGAGAAAGCCTGATTAAAGAAATGTTTGCCACG 6160 GTAGGGGAAAACGCCTGGGTAGAACCACCCGTCTATTTCTCTTACGGTTCCAACATCCATATAGGCCGCA 6230 ATTTTTATGCAAATTTCAATTTAACCATTGTAGACGACTACACGGTAACGATCGGTGATAACGTATTGAT 6300 TGCACCCAATGTTACTCTTTCCGTTACGGGACACCCTGTACACCATGAATTGAGAAAAAACGGTGAGATG 6370 TACTCTTTTCCGATAACGATTGGCAATAACGTCTGGATCGGAAGTCATGTGGTCATTAATCCTGGCGTCA 6440 CCATCGGGGATAATTCTGTTATTGGCGCGGGTAGTGTCGTCATAAAAGACATTCCACCAAACGTCGTGGC 6510 TGCTGGCGTTCCTTGCCGGGTTATTCGCGAAATAAACGACCGGGATAAGCAATATTATTTCAGAGATTAC 6580 AAAGTTGAATCGTCAGTTTAAATTATAAAAATTGCCTGATACGCTTCGCTTATCAGGCCTACAAATTCAG 6650 TGAGGTGTACTGGCAATAGCGGACACTACCATTTGTTCTTTTTTTAAGCAGCCATCTGATGATATTTTTC 6720 CCTGAAGGCTGCCGGGGAGATATTCCCCAGACGAGAGTGACGACGCTGACGATTGTAGAAAATCTCAATG 6790 TATTCCCGTATTACTGAGATGGCTTCATCCCGGTTATTAAAACGATAGTGGCTCAGGCTCTCATTTTTCA 6860 GCGTTCCCCAGAAGCTTTCCATCGGAGCGTTGTCGTAACAGTTACCTTTACGCGACATTGATGTTTTCAG 6730