

## Méthode n° 4 Comparer des séquences avec l'outil BLAST

### Corrigé

Pour accéder à l'outil :

[https://blast.ncbi.nlm.nih.gov/Blast.cgi?LINK\\_LOC=blasthome&PAGE\\_TYPE=BlastSearch&PROGRAM=blastn](https://blast.ncbi.nlm.nih.gov/Blast.cgi?LINK_LOC=blasthome&PAGE_TYPE=BlastSearch&PROGRAM=blastn)

- Saisir la séquence, sélectionner les paramètres, lancer en cliquant sur BLAST

The screenshot shows the NCBI BLAST Standard Nucleotide BLAST interface. The interface is divided into several sections:

- Enter Query Sequence** (highlighted with an orange box): Contains a text input field with the sequence "TGCCTGGTAATACAGATAAGATAAATGTAGCCCTGGCCTCAAAGGAAGCTCTCTCCTTA".
- Choose Search Set** (highlighted with a blue box): Contains options for Database (Human genomic + transcript, Mouse genomic + transcript, Others (nr etc.): Nucleotide collection (nr/nt)), Organism (Optional), Exclude (Optional), Limit to (Optional), and Entrez Query (Optional).
- Program Selection** (highlighted with a green box): Contains options for Optimize for (Highly similar sequences (megablast), More dissimilar sequences (discontiguous megablast), Somewhat similar sequences (blastn)).
- BLAST** button (highlighted with a pink box): Located at the bottom left of the form.

► Défiler jusqu'à la section « Alignments » pour identifier le gène impliqué

**Alignments**

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Homo sapiens isolate MOZ\_VBP-0018 MCM6 gene, intron  
Sequence ID: [KJ661758.1](#) Length: 579 Number of Matches: 1

Range 1: 144 to 203 GenBank Graphics ▾ Next Match ▲ Previous Match

Score	Expect	Identities	Gaps	Strand
106 bits(57)	6e-20	59/60(98%)	0/60(0%)	Plus/Plus

Query 1 TGC GCTGGTAAACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 60  
 |||||  
 Sbjct 144 TGC GCTGGCAATACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 203

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Homo sapiens isolate MOZ\_VBP-0014 MCM6 gene, intron  
Sequence ID: [KJ661757.1](#) Length: 579 Number of Matches: 1

Range 1: 144 to 203 GenBank Graphics ▾ Next Match ▲ Previous Match

Score	Expect	Identities	Gaps	Strand
106 bits(57)	6e-20	59/60(98%)	0/60(0%)	Plus/Plus

Query 1 TGC GCTGGTAAACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 60  
 |||||  
 Sbjct 144 TGC GCTGGCAATACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 203

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Homo sapiens isolate MOZ\_VBP-0010 MCM6 gene, intron  
Sequence ID: [KJ661756.1](#) Length: 579 Number of Matches: 1

Range 1: 144 to 203 GenBank Graphics ▾ Next Match ▲ Previous Match

Score	Expect	Identities	Gaps	Strand
106 bits(57)	6e-20	59/60(98%)	0/60(0%)	Plus/Plus

Query 1 TGC GCTGGTAAACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 60  
 |||||  
 Sbjct 144 TGC GCTGGCAATACAGATAAGATAATGTAGCCCTGGCCCTCAAAGGAACTCTCCTCCTTA 203

[Questions/comments](#)