# Promoter finder



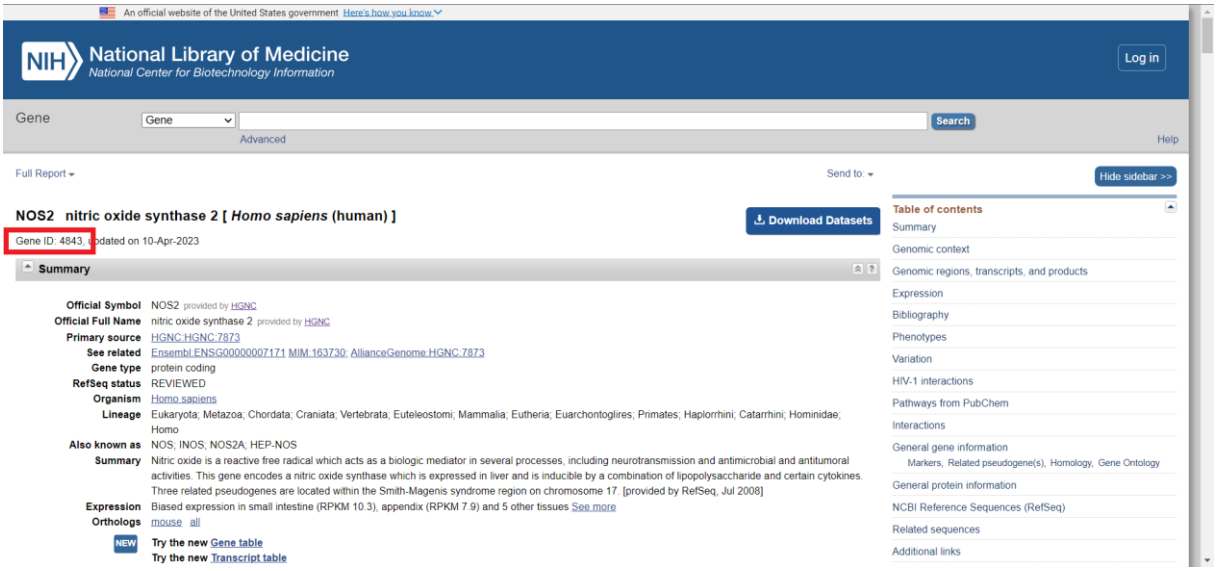
## Introduction

Using this NCBI API program, you can retrieve a promoter region of your gene of interest.

WARNING! This script uses the coordinates of the gene of interest to define the area to be extracted. However, it is not possible to select a specific transcript. Please always check the extracted region (see below).

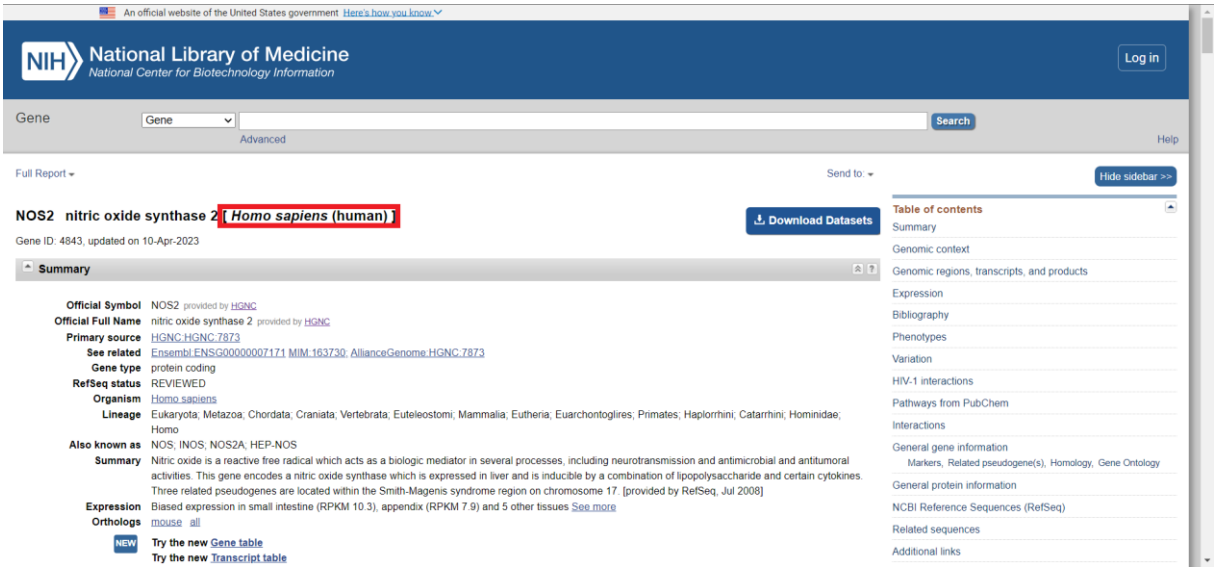
## Gene ID

https://www.ncbi.nlm.nih.gov/gene/



# Species

Only human, mouse and rat are allowed (yet)




# Upstream/downstream

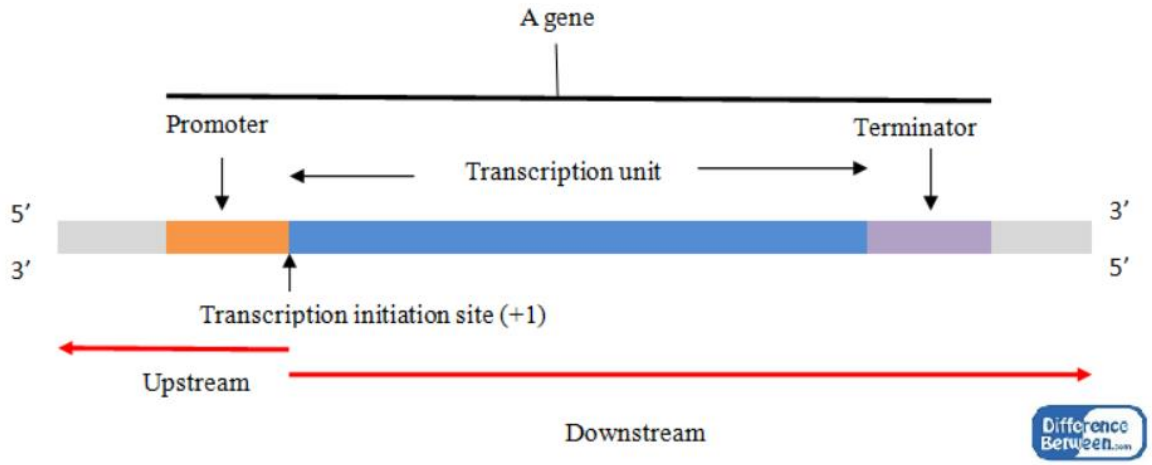


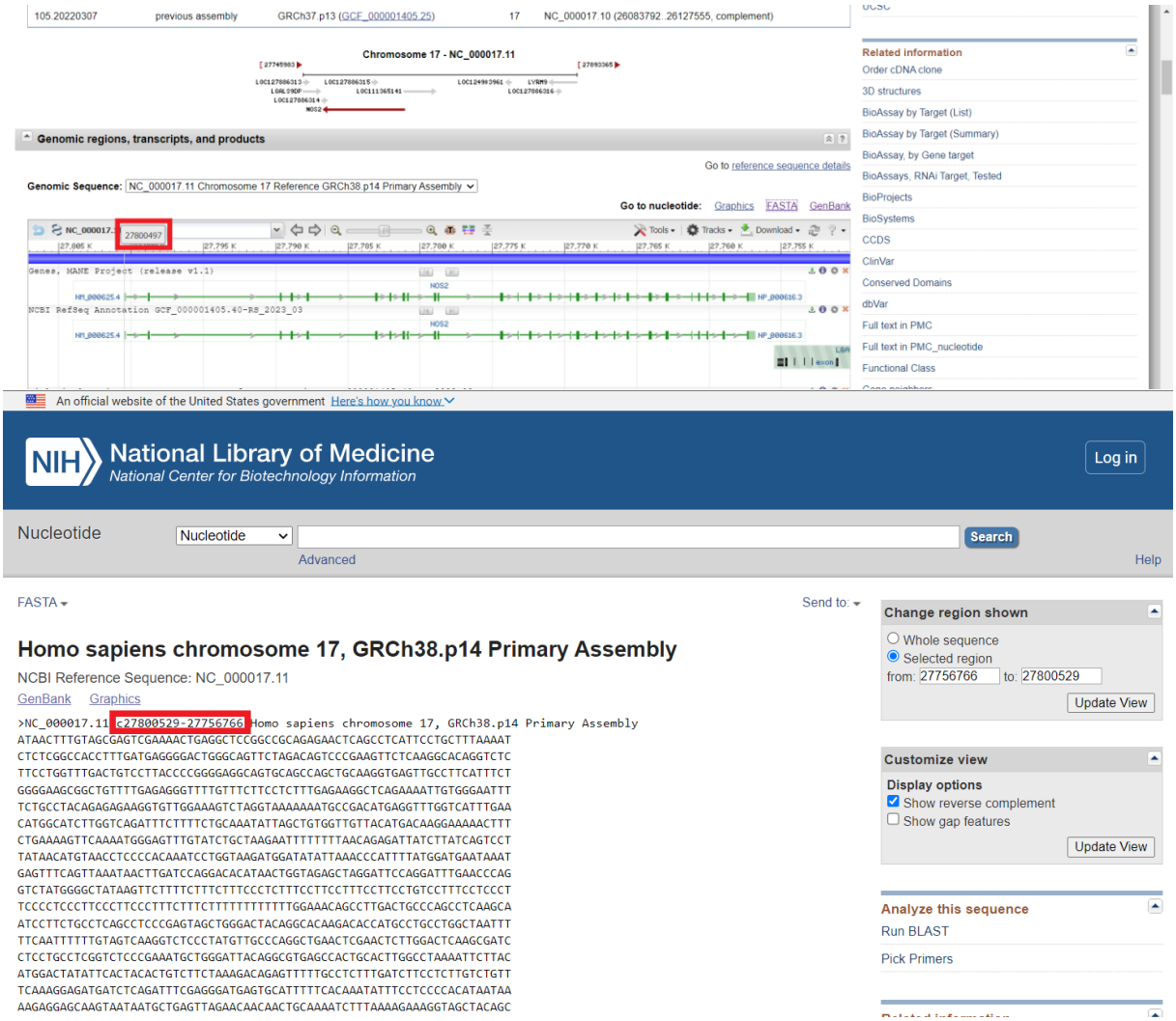

Image copyright

The script analyzes the gene to find out whether it's on the sense or anti-sense strand.

Simply enter the number of base pairs upstream and downstream of the transcription initiation site.

The transcription initiation site is retrieved via the API. It is in the gene's FASTA and the GeneBank.

WARNING! The API does not allow you to select a specific transcript. Check the coordinates of the transcription initiation site. It may be different from the desired transcript. Adjust the upstream/downstream window accordingly.


105.20220307 previous assembly GRCh37.p13 (GCF_000001405.25) 17 NC_000017.10 (26083792..26127555, complement)
Chromosome 17 - NC_000017.11
Genomic regions, transcripts, and products
Go to reference sequence details
Genomic Sequence: NC_000017.11 Chromosome 17 Reference GRCh38.p14 Primary Assembly
Go to nucleotide: Graphics FASTA GenBank
Genes, MANE Project (release v1.1)
NCBI RefSeq Annotation GCF_000001405.40-RS_2023_03
Related Information
Order cDNA clone
3D structures
BioAssay by Target (List)
BioAssay by Target (Summary)
BioAssay, by Gene target
BioAssays, RNAi Target, Tested
BioProjects
BioSystems
CCDS
ClinVar
Conserved Domains
dbVar
Full text in PMC
Full text in PMC_nucleotide
Functional Class
An official website of the United States government Here's how you know
National Library of Medicine
National Center for Biotechnology Information
Log in
Nucleotide
Nucleotide
Search
Advanced
Help
FASTA
Send to:
Homo sapiens chromosome 17, GRCh38.p14 Primary Assembly
NCBI Reference Sequence: NC_000017.11
GenBank Graphics
>NC_000017.11:c27800529-27756766 Homo sapiens chromosome 17, GRCh38.p14 Primary Assembly
ATAACTTTGTAGCGAGTCGAAAACTGAGGCTCGGCCGCAGAGAACTCAGCCTCATTCCTGCTTTAAAAT
CTCTCGGCCACCTTTGATGAGGGGACTGGGCAGTTCTAGACAGTCCCGAAGTTCTCAAGGCACAGGTCTC
TTCCTGGTTTGACTGTCCTTACCCCGGGGAGGCAGTGCAGCCAGCTGCAAGGTGAGTTGCCTTCATTTCT
GGGGAAGCGGCTGTTTTGAGAGGGTTTTGTTTCTTCCTCTTTGAGAAGGCTCAGAAAATTGTGGGAATTT
TCTGCCTACAGAGAGAAGGTGTTGGAAAGTCTAGGTAAAAAAATGCCGACATGAGGTTTGGTCATTTGAA
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CTGAAAAGTTCAAAATGGGAGTTTGTATCTGCTAAGAATTTTTTTTAACAGAGATTATCTTATCAGTCCT
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TTCAATTTTTTGTAGTCAAGGTCTCCCTATGTTGCCCAGGCTGAACTCGAACTCTTGGACTCAAGCGATC
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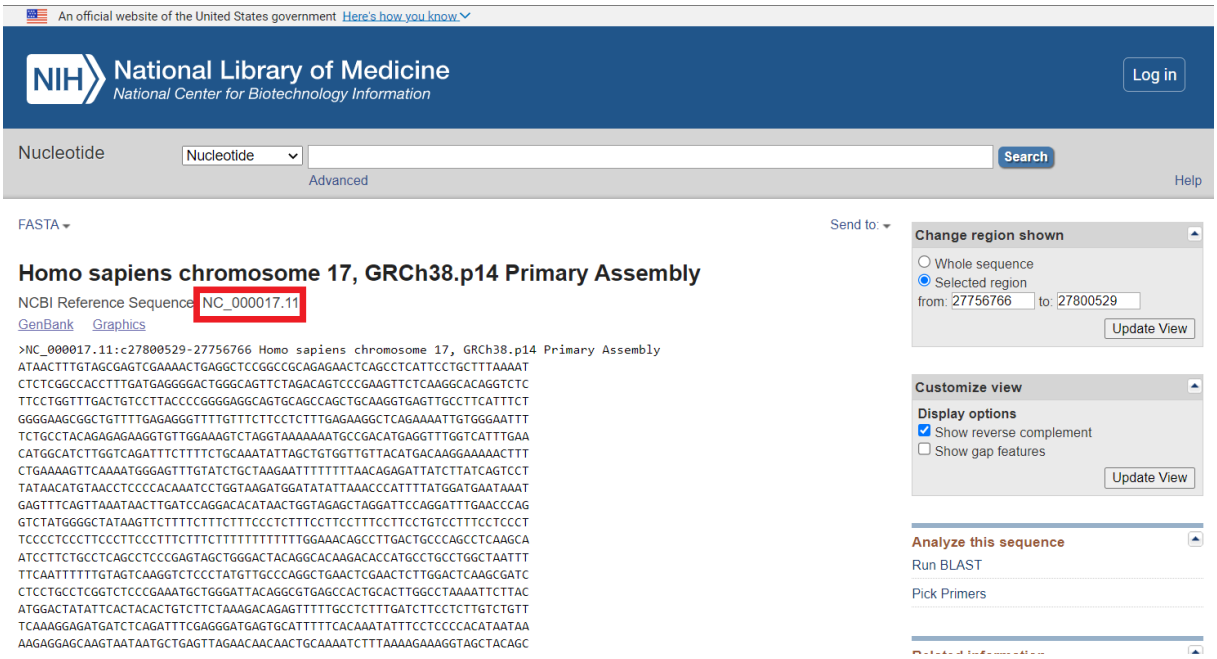
ATGGACTATATTCACTACACTGTCTTCTAAAGACAGAGTTTTTGCCTCTTTGATCTTCCTCTTGTCTGTT
TCAAAGGAGATGATCTCAGATTTCGAGGGATGAGTGCATTTTTCACAAATATTTCCTCCCCACATAATAA
AAGAGGAGCAAGTAATAATGCTGAGTTAGAACAACAACTGCAAAATCTTTAAAAGAAAGGTAGCTACAGC
Change region shown
Whole sequence
Selected region
from: 27756766 to: 27800529
Update View
Customize view
Display options
Show reverse complement
Show gap features
Update View
Analyze this sequence
Run BLAST
Pick Primers

# Gene, chromosome and transcription initiation site

NC_XXXXXX.XX is the chromosome accession number. The chromosome corresponds to the last 2 digits before the "."




The transcription initiation site is as previously indicated. It's an aid to help you locate the gene directly on the map.