Settings

NCBI email (required for Entrez/BLAST)

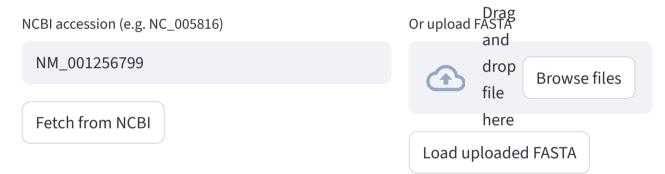
Optional outputs (toggle on to compute)

- Show ORFs (6-frame, M->stop)
- Show codon usage (frame 1)
- Show annotated CDS (GenBank)

GeneScope

Simple Biopython pipeline — fetch an accession or upload a FASTA. All sequence ops use Biopython.

Input



Summary

Length (nt) GC % AT % Ambiguous % Mol weight (Da) 427...

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Base counts

A C G T N

311 412 372 291 0

FASTA

>NM 001256799.3 Homo sapiens glyceraldehyde-3-phosphate dehydrogenase GGGCAGCCGTTAGGAAAGCCTGCCGGTGACTAACCCTGCGCTCCTGCCTCGATGGGTGGA GTCGCGTGTGGCGGGAAGTCAGGTGGAGCGAGGCTAGCTGGCCCGATTTCTCCTCCGGG TGATGCTTTTCCTAGATTATTCTCTGATTTGGTCGTATTGGGCGCCTGGTCACCAGGGCT GCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAAC TACATGGTTTACATGTTCCAATATGATTCCACCCATGGCAAATTCCATGGCACCGTCAAG GCTGAGAACGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGAT CCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCGTGGAGTCCACTGGCGTC TTCACCACCATGGAGAAGGCTGGGGCTCATTTGCAGGGGGGGAGCCAAAAGGGTCATCATC TCTGCCCCCTCTGCTGATGCCCCCATGTTCGTCATGGGTGTGAACCATGAGAAGTATGAC AACAGCCTCAAGATCATCAGCAATGCCTCCTGCACCACCAACTGCTTAGCACCCCTGGCC AAGGTCATCCATGACAACTTTGGTATCGTGGAAGGACTCATGACCACAGTCCATGCCATC ACTGCCACCAGAAGACTGTGGATGGCCCCTCCGGGAAACTGTGGCGTGATGGCCGCGGG GCTCTCCAGAACATCATCCCTGCCTCTACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATC CCTGAGCTGAACGGGAAGCTCACTGGCATGGCCTTCCGTGTCCCCACTGCCAACGTGTCA GTGGTGGACCTGACCTGCCGTCTAGAAAAACCTGCCAAATATGATGACATCAAGAAGGTG

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Transcription & Translation

RNA

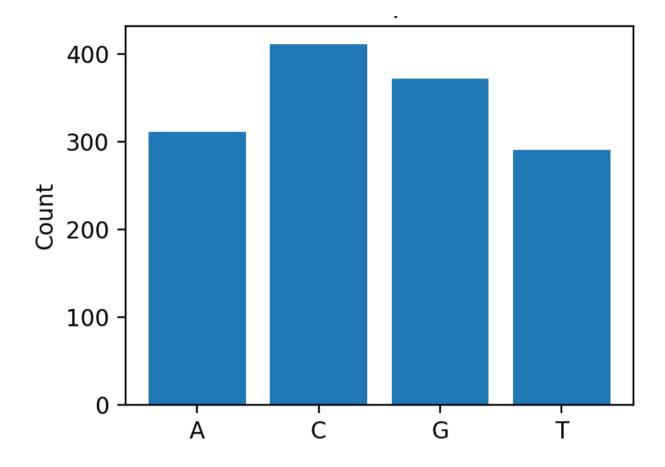
Protein

VRMLRLR*SGRHVATGKEMNGQPLGKPAGD*PCAPASMGGVACGGEVRWSEASWPDFSSG*CFS*IIL

Plots

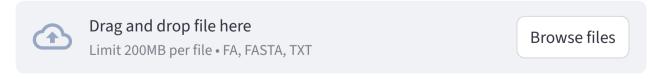
Base composition

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Pairwise alignment (optional)

Upload FASTA with targets for pairwise alignment



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Run pairwise alignment

Protein structure lookup

Find PDB (BLASTp top hit)

BLASTn (top 5 hits)

Run BLASTn (top 5)

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