

C C A T T 0 1 0 0 0
G A G G A 0 1 1 0 1
G A A T T 0 0 1 1 0
A C A A G 0 0 1 0 0
T A C C A 0 0 1 1 0
T T A C A 0 1 0 0 0
A C C T C 0 0 0 1 0
A A G G A 0 0 0 0 0
G A T G A 0 1 1 0 0
T A G A T 0 0 1 0 0
G A T G A 1 0 1 0 0
T G T A G 1 0 0 0 0
T A G T A 0 0 0 0 0
G A T A T 1 0 0 0 0
G A G T G 1 0 0 0 0
A G A T T 1 0 0 0 0
G A G T A 1 0 0 0 0
T G A T G 1 0 0 0 0
A T T A G 1 0 0 0 0
T A G A T 1 0 0 0 0
G A G A 1 0 0 0 0
G T A 1 0 0 0 0
G A T 1 0 0 0 0
T A G 1 0 0 0 0
A G A 1 0 0 0 0
G A 1 0 0 0 0
A 1 0 0 0 0
T 1 0 0 0 0

Tutorial

Tutorial: GenBank search

June 21, 2011



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The *CLC Sequence Viewer* allows you to search the NCBI GenBank database directly from the program, giving you the opportunity to both open, view, analyze and save the search results without using any other applications. To conduct a search in NCBI GenBank from *CLC Sequence Viewer* you must be connected to the Internet.

This tutorial shows how to find a complete human hemoglobin DNA sequence in a situation where you do not know the accession number of the sequence.

To start the search:

Search | Search for Sequences at NCBI (🌐)

This opens the search view. We are searching for a DNA sequence, hence:

Nucleotide

Now we are going to adjust parameters for the search. By clicking **Add search parameters** you activate an additional set of fields where you can enter search criteria. Each search criterion consists of a drop down menu and a text field. In the drop down menu you choose which part of the NCBI database to search, and in the text field you enter what to search for:

Click Add search parameters until three search criteria are available | choose Organism in the first drop down menu | write 'human' in the adjoining text field | choose All Fields in the second drop down menu | write 'hemoglobin' in the adjoining text field | choose All Fields in the third drop down menu | write 'complete' in the adjoining text field

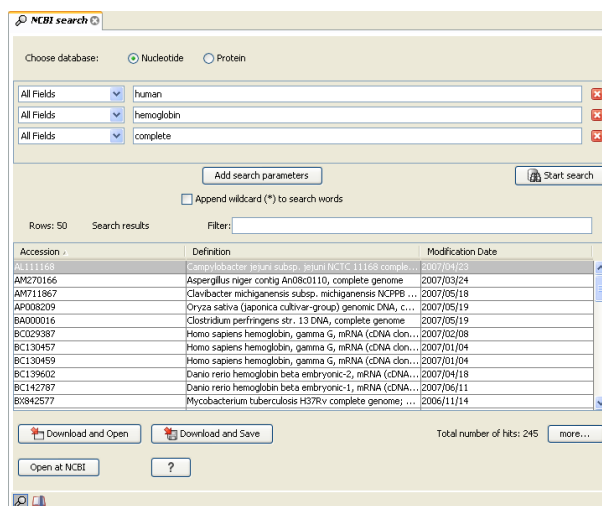


Figure 1: NCBI search view.

Click **Start search** (🌐) to commence the search in NCBI.

Searching for matching objects

When the search is complete, the list of hits is shown. If the desired complete human hemoglobin DNA sequence is found, the sequence can be viewed by double-clicking it in the list of hits from the search. If the desired sequence is not shown, you can click the 'More' button below the list to see more hits.

Saving the sequence

The sequences which are found during the search can be displayed by double-clicking in the list of hits. However, this does not save the sequence. You can save one or more sequence by selecting them and:

click Download and Save

or **drag the sequences into the Navigation Area**