

EXPERIMENT NO: 02

AIM OF THE EXPERIMENT: Retrieval of nucleotide and protein sequences from the database.

MATERIALS: Internet, Computer, Copy etc.

① Procedure for nucleotide sequence retrieval—

- ① Go to the NCBI (GenBank) homepage.
(<https://www.ncbi.nlm.nih.gov/>)
- ② From the dropdown box, select Nucleotide option.
- ③ In search text box type for the sequence of "Keratin".
- ④ Clicked the "search" button to check the result.
- ⑤ The results return were examined and one out of 4909 results was selected having accession number: S72493.2

RESULTS:

Accession number : S72493.2

GI : 7717237

Type of nucleotide : mRNA, partial.

Locus : S72493

Organism : Homo Sapiens.

① Procedure for the protein sequence retrieval —

- ① Go to the NCBI (GenBank) homepage.
- ② From the dropdown box - select 'protein' option.
- ③ In search text box type for the sequence of "Tropomyosin".
- ④ Clicked the "Search" button to check the result.
- ⑤ The results return were examined and one out of 4 results was selected having accession number: AAC60092.1

RESULTS :

Accession number : AAC60092.1

Locus : AAC60092

Amino acid sequence : 284 aa

GI : 1071368

Organism : Ambystoma mexicanum.