

# UGENE Terminology

## Project

Storage for a set of data files and visualization options.

## Document

A single file (can be stored on a local hard drive or be a remote web page). Each *document* contains a set of *objects*.

## Object

A minimal and complete model of biological data. For example: a single sequence, a set of annotations, a multiple sequence alignment.

## Task

A process, usually asynchronous, that works in background. For example: some computations, loading and writing files.

## Plugin

A dynamically loaded module that adds new functionality to UGENE.

## Object View

A graphical view for a single or a set of *objects*.

## Project View

A visual component used to manage active *project*.

## Task View

A visual component used to manage active *tasks*.

## Log View

A visual component used to show logs.

## Notifications

A visual component used to show notifications. Generally it is used to open tasks reports.

## Plugin Viewer

A visual component used to manage *plugins*.

## Sequence View

An *Object View* aimed to visualize DNA, RNA or protein sequences along with their properties like annotations, chromatograms, 3D models, statistical data, etc.

## Annotation

Additional information about a sequence, identified by its name and the sequence region.

## Alignment Editor

An *Object View* used to visualize and edit DNA, RNA or protein multiple sequence alignments.

## Options Panel

An *Options Panel* it is the panel with different information tabs and tabs with settings for *Sequence View* and [Assembly Browser](#).

In the image below you can see a typical UGENE window with a *Project View* and a single *Object View* window opened:

U - \* UGENE - [murine [s] NC\_001363]

File Actions Settings Tools Window Help

Project

Name filter

Objects

- ty3.aln.gz
- AF177870.emb
- human\_T1.fa
- eas.fastq
- 1CF7.PDB
- murine.gb
  - [a] NC\_001363 features
  - [s] NC\_001363

Bookmarks

- ty3 [m] ty3
- AF177870 [s] AF177870 stand...
- human\_T1 [s] human\_T1 (UC...
- eas [s] Sequence
- 1CF7.PDB
- murine [s] NC\_001363
- murine [s] NC\_001363 2
- 1CF7.PDB 2

Task view

Bookmarks Log view

NC\_00136

1k 2k 3k 4k 5k 5833

CDS (4) NP\_040335.1 NP NP\_040333

5' ter feature (2) 3' ter

1k 2k 3k 4k 5k 5833

(sequence with annotation)

K \* K T P V G G

N E R D H P \* V

M K D P T R R W

A AATGAAAGACCCACCCGTAGGTGG

12 4 6 8 10 12 14 16 18 20 22 24 26

TTTACTTTCTGGGGTGGGCATCCACC

I F S G V R L H

F S L G W G Y T A

H F V G G T P P

Name

- Auto-annotations [murine.gb | NC\_001363]
- NC\_001363 features [murine.gb]

Information

Length: 5833

Options panel

Characters Occurrence

|    |      |       |
|----|------|-------|
| A: | 1427 | 24.5% |
| C: | 1673 | 28.7% |
| G: | 1484 | 25.4% |
| T: | 1249 | 21.4% |

Dinucleotides

Annotations Highlighting

Select an annotation type:

| Annotation   | Color  |
|--------------|--------|
| CDS          | Blue   |
| misc_feature | Yellow |
| source       | Grey   |

Show all annotation types

Configure the annotation type:

- ☒ Show annotations of this type
- ☒ Show on translation
- ☒ Show value of qualifier:

protein\_id,locus\_tag,gene,function,p

Notifications

Active task

No active tasks