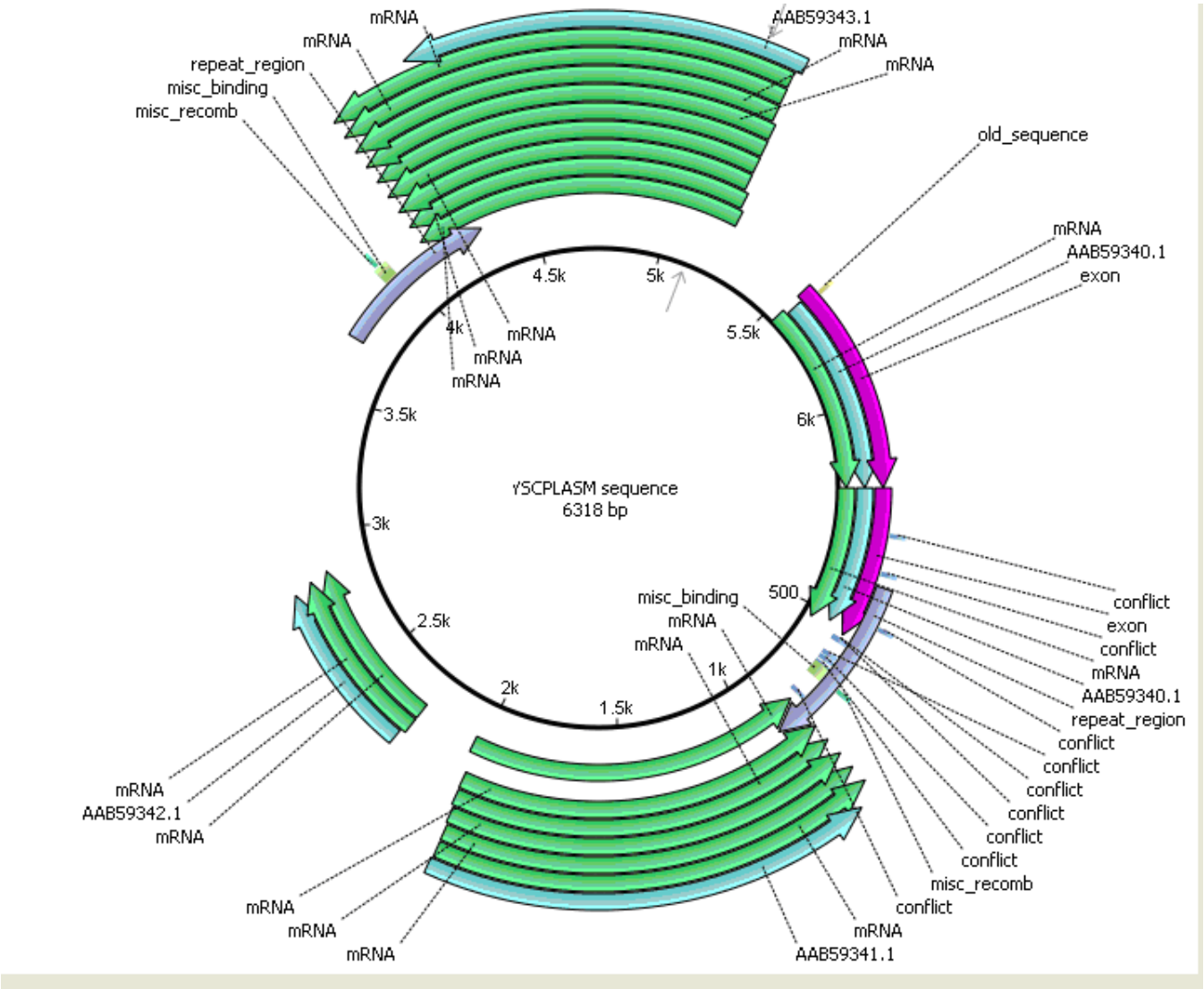
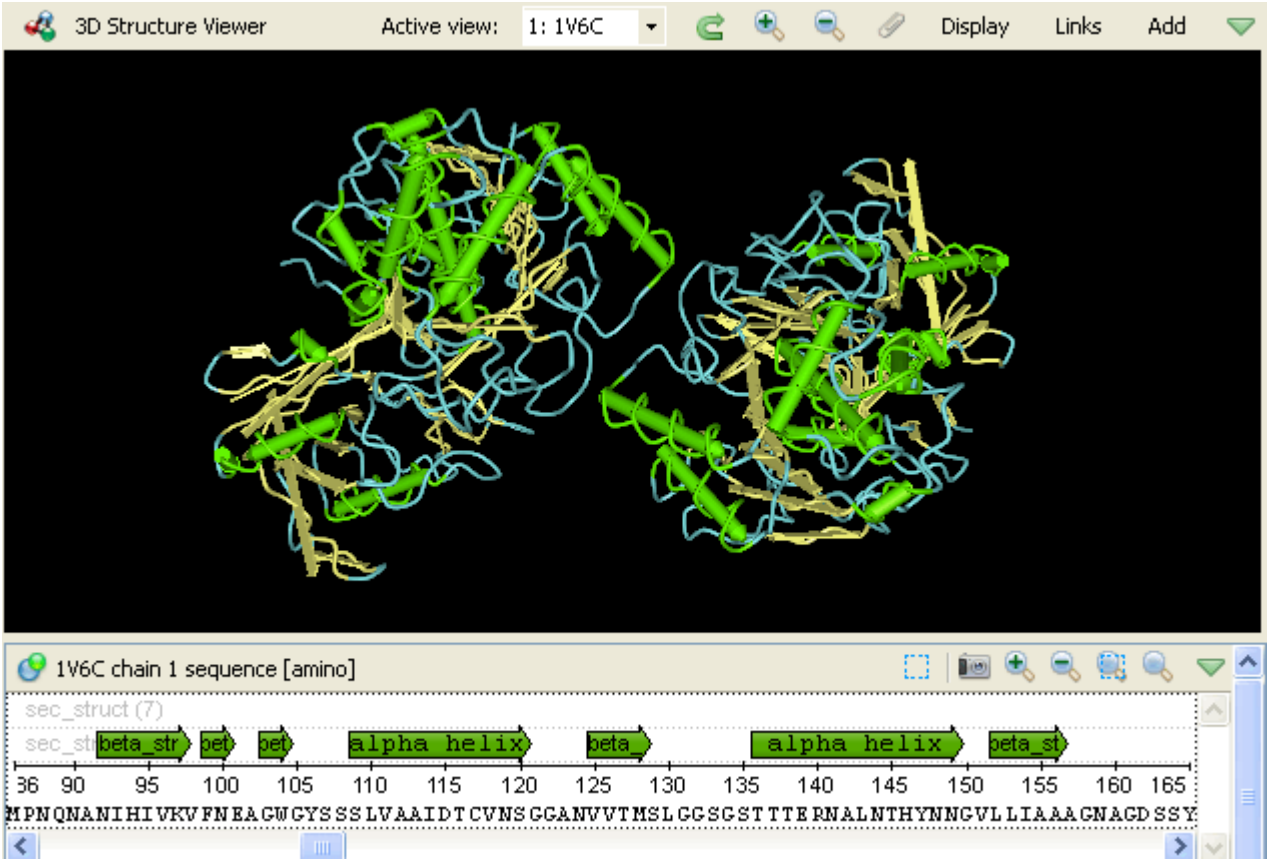
Sequence View Extensions

The functionality of the *Sequence View* can be significantly increased with *Sequence View Extensions*. Below is the demonstration its functionality.

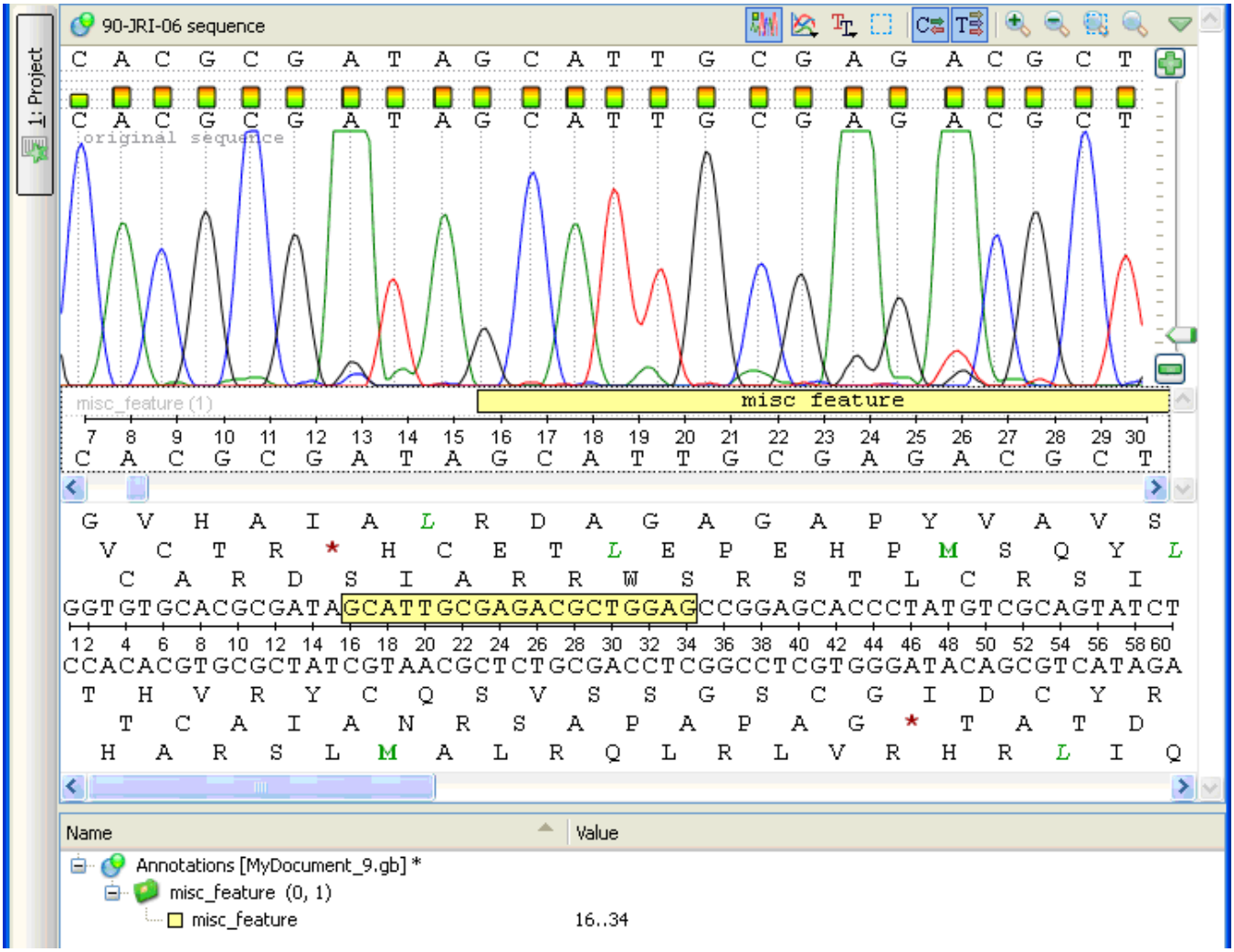
The *Circular Viewer* shows the circular view of a sequence:



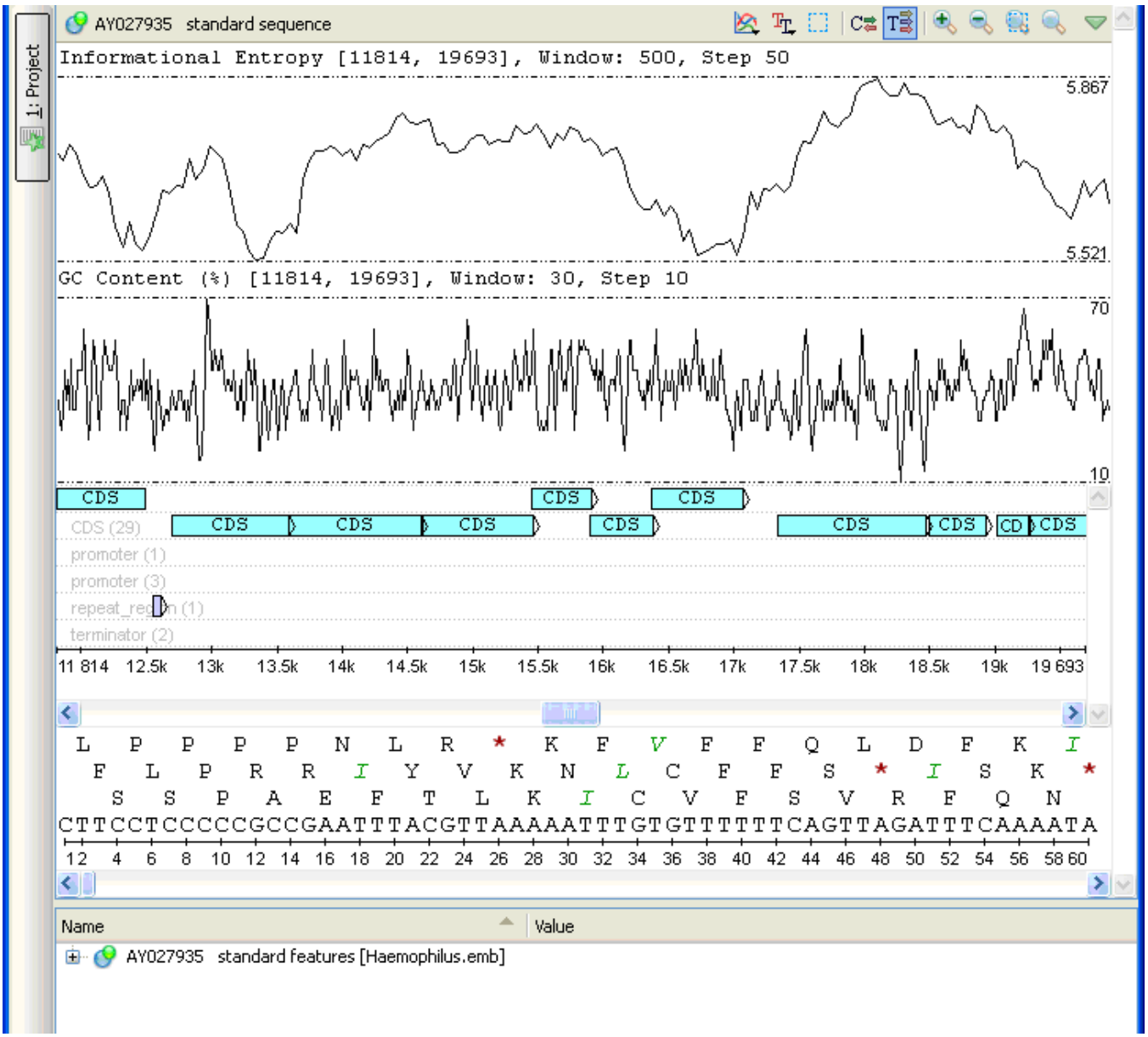
The *3D Structure Viewer* adds 3D visualization for PDB and MMDB files:



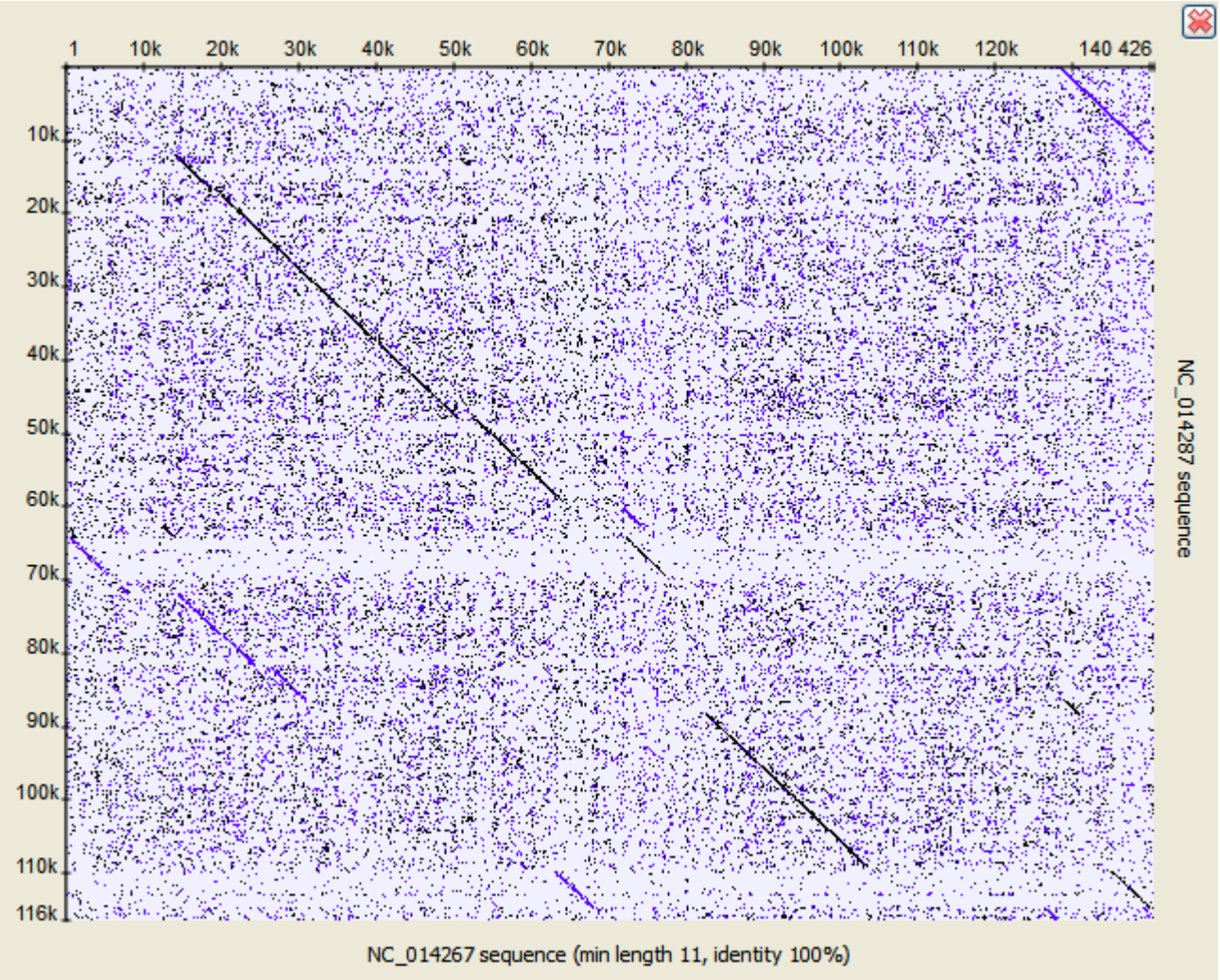
The *Chromatogram Viewer* adds support for chromatograms visualization and editing:



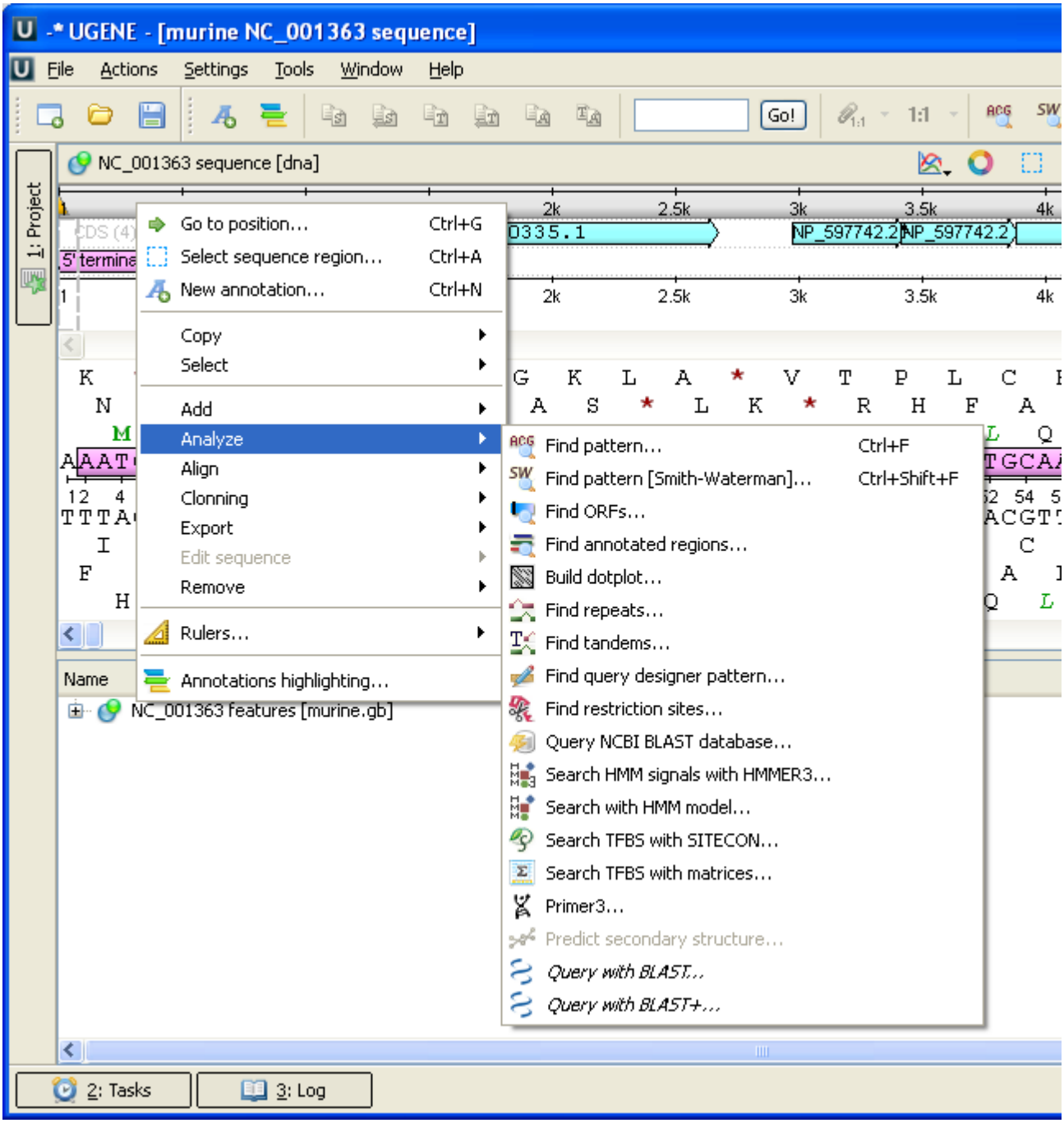
The *DNA Graphs Package* shows various graphs for sequences:



The *Dotplot* provides a tool to build dotplots for DNA or RNA sequences.



A number of other instruments add the graphical interface for popular sequence analysis methods:



For details see the next sections of the documentation:

- Circular Viewer
  - Circular View Settings
- 3D Structure Viewer
  - Opening 3D Structure Viewer
  - Changing 3D Structure Appearance
    - Selecting Render Style
    - Selecting Coloring Scheme
    - Calculating Molecular Surface
    - Selecting Background Color
    - Selecting Detail Level
    - Enabling Anaglyph View
  - Moving, Zooming and Spinning 3D Structure
  - Highlight Region on 3D Structure
  - Selecting Models to Display
  - Structural Alignment
  - Exporting 3D Structure Image

        - Working with Several 3D Structures Views
        - Alignment Entropy Calculation
- Chromatogram Viewer
    - Exporting Chromatogram Data
    - Viewing Two Chromatograms Simultaneously
- Graphs Package
    - Description of Graphs
    - Graph Settings
    - Saving Graph Cuttoffs as Annotations
- Dotplot
    - Creating Dotplot
    - Navigating in Dotplot
    - Zooming to Selected Region
    - Selecting Repeat
    - Interpreting Dotplot - Identifying Matches, Mutations, Invertions, etc
    - Editing Parameters
    - Filtering Results
    - Saving Dotplot as Image
    - Saving and Loading Dotplot
    - Building Dotplot for Currently Opened Sequence
    - Comparing Several Dotplots