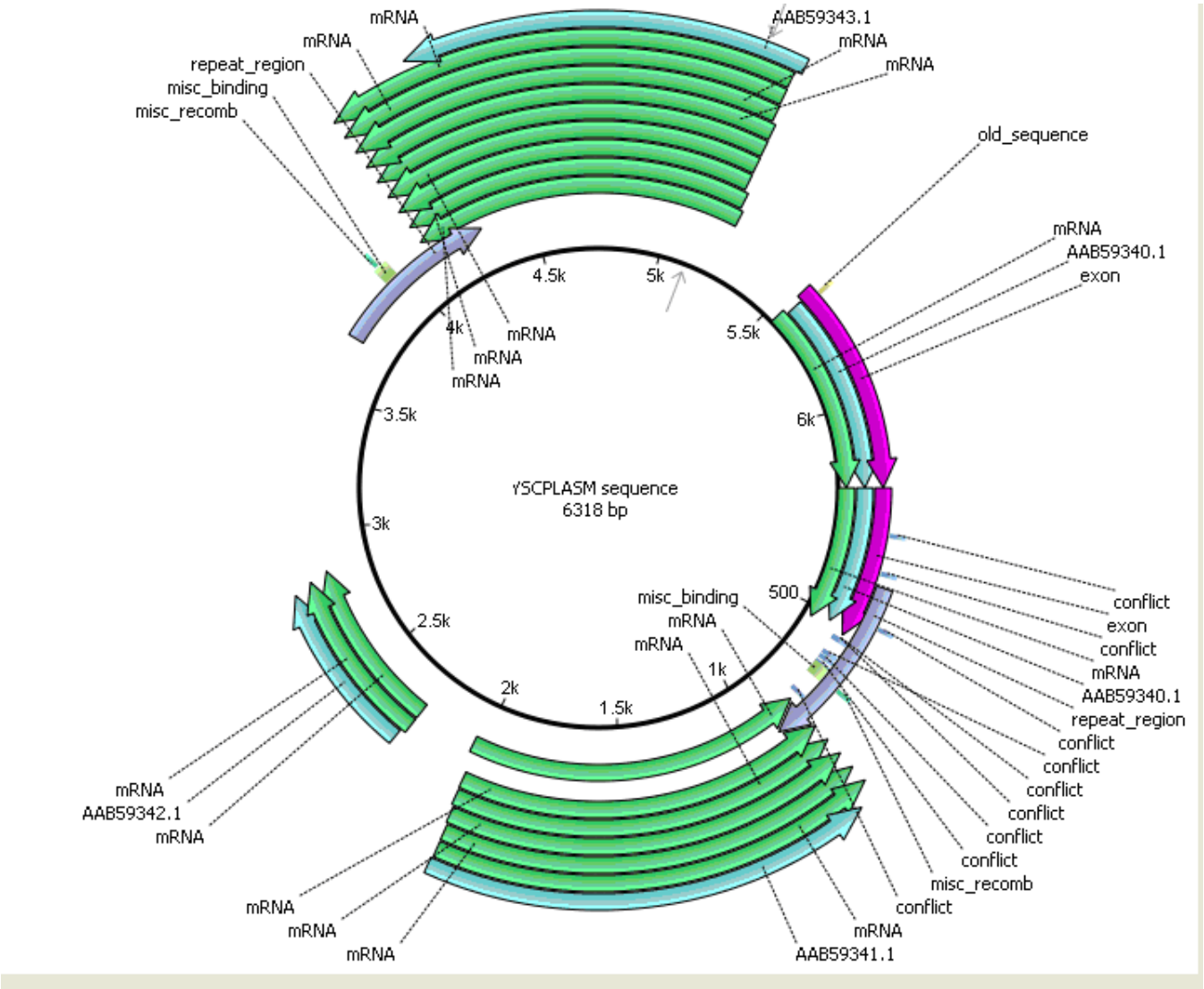
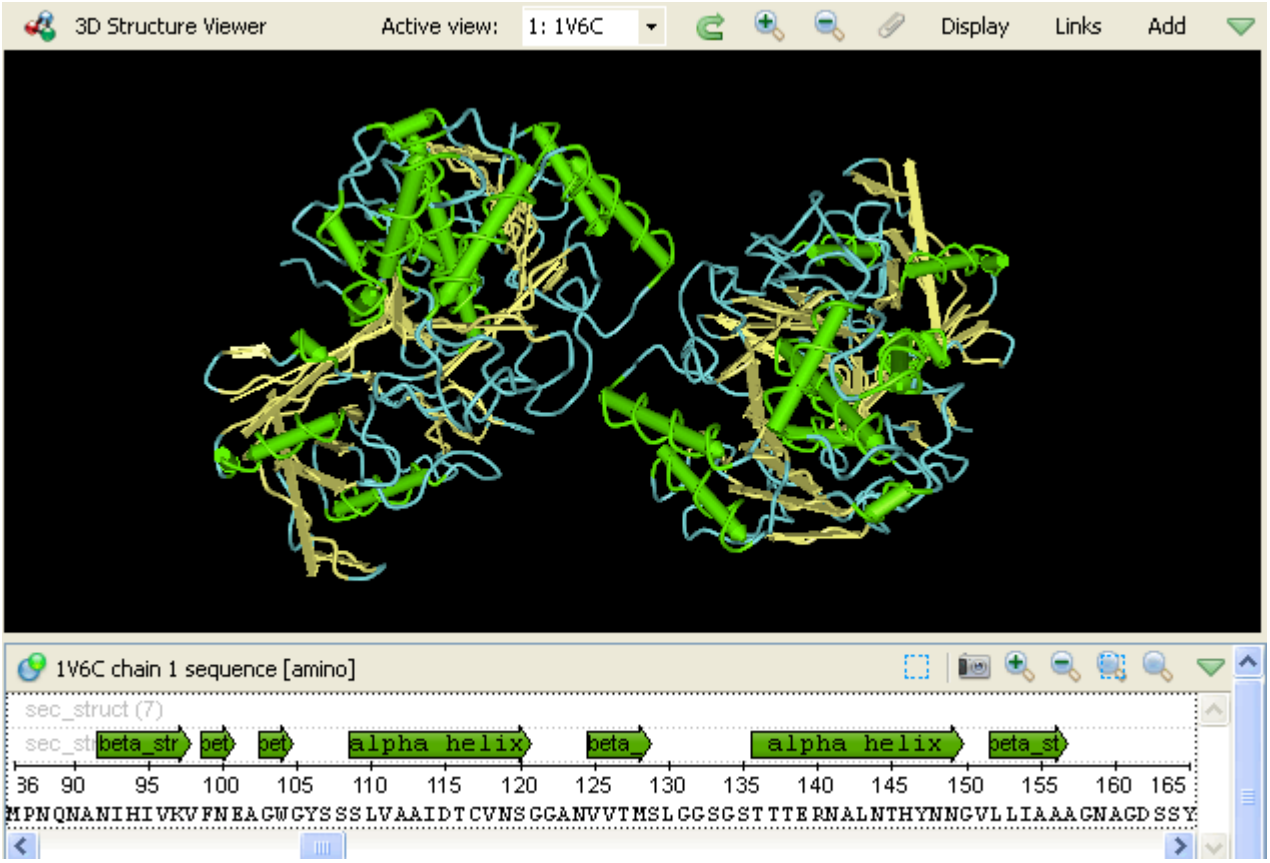
Sequence View Extensions

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

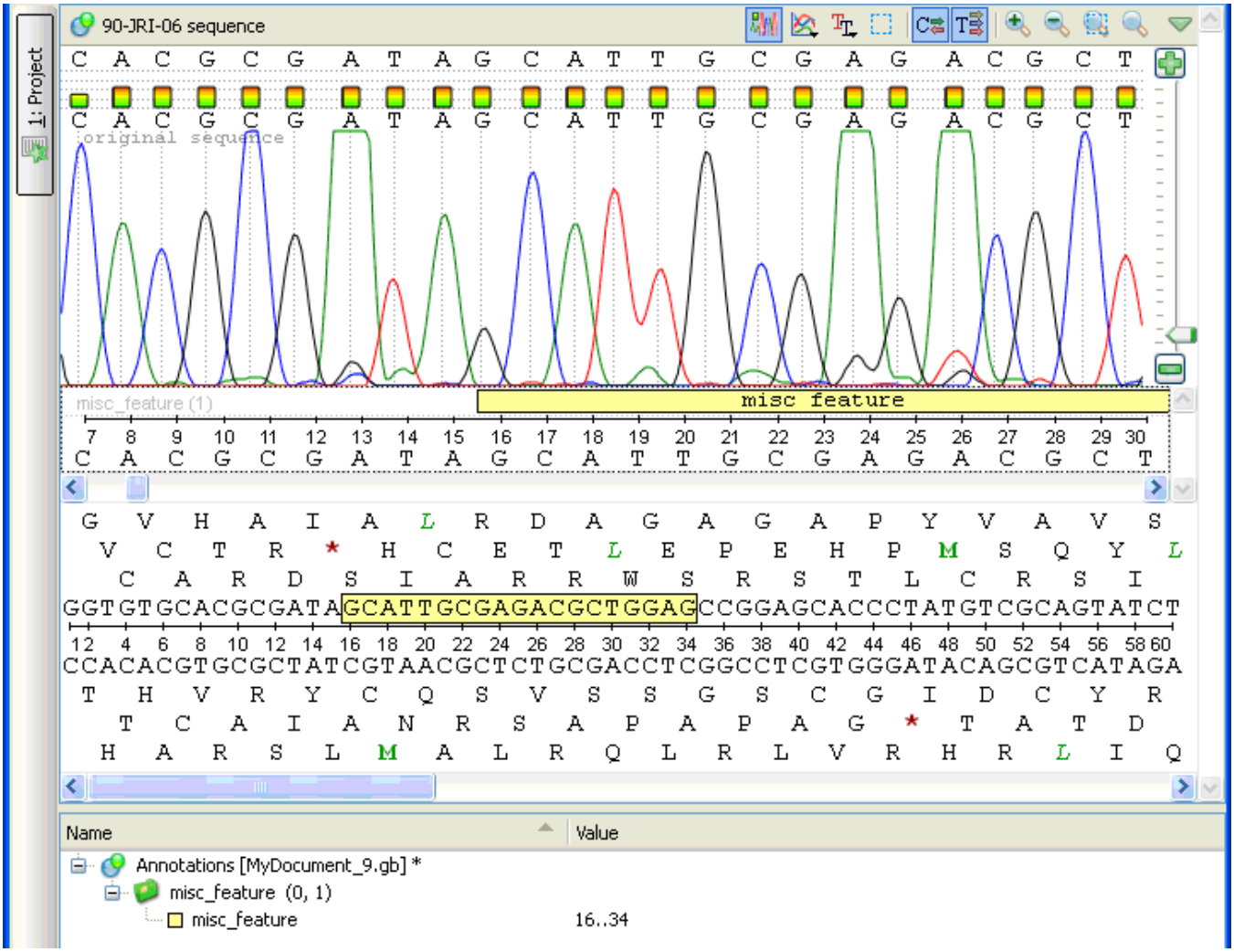
The *Circular Viewer* shows the circular view of a sequence:



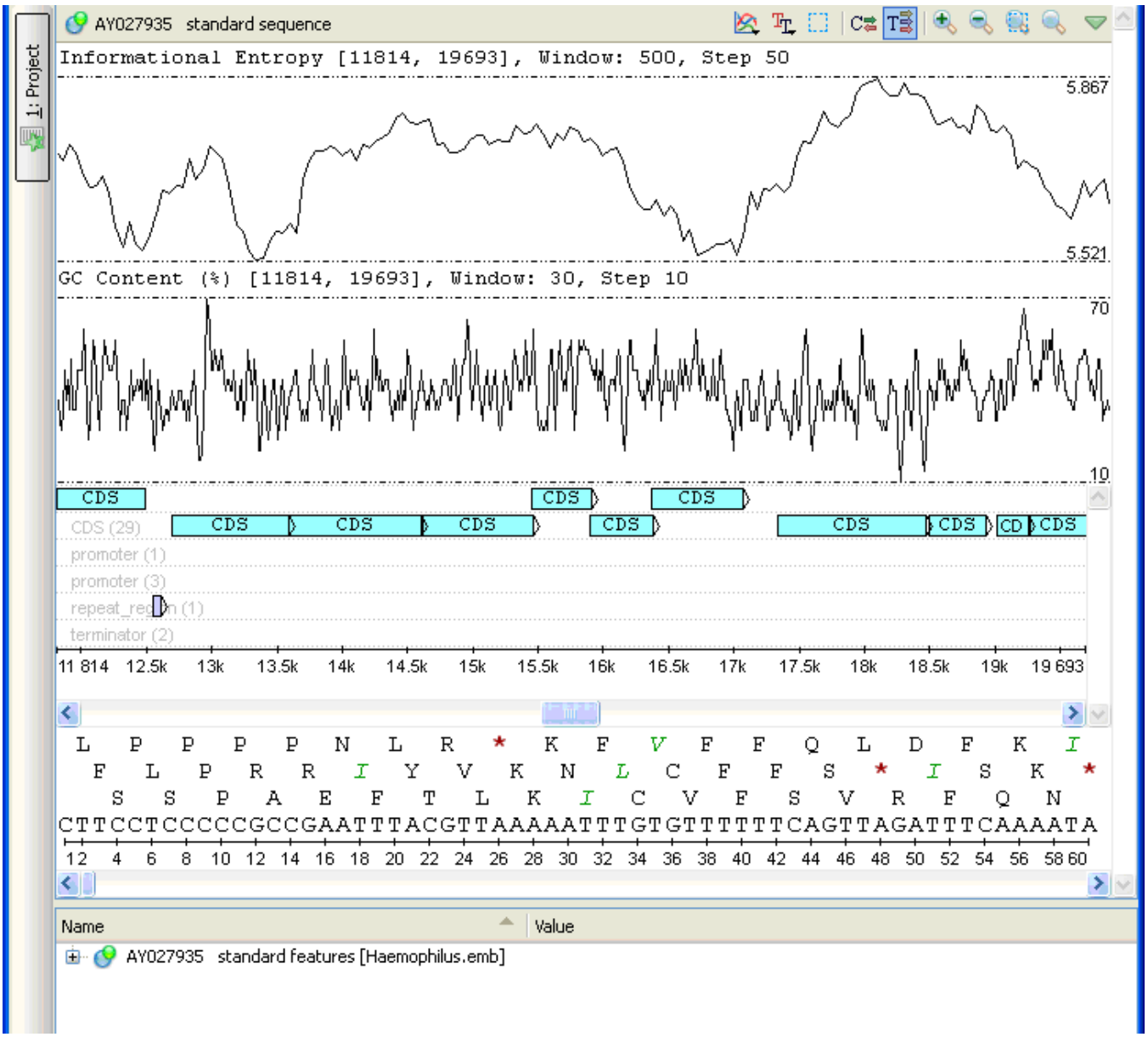
The *3D Structure Viewer* adds 3D visualization for PDB and MMDB files:



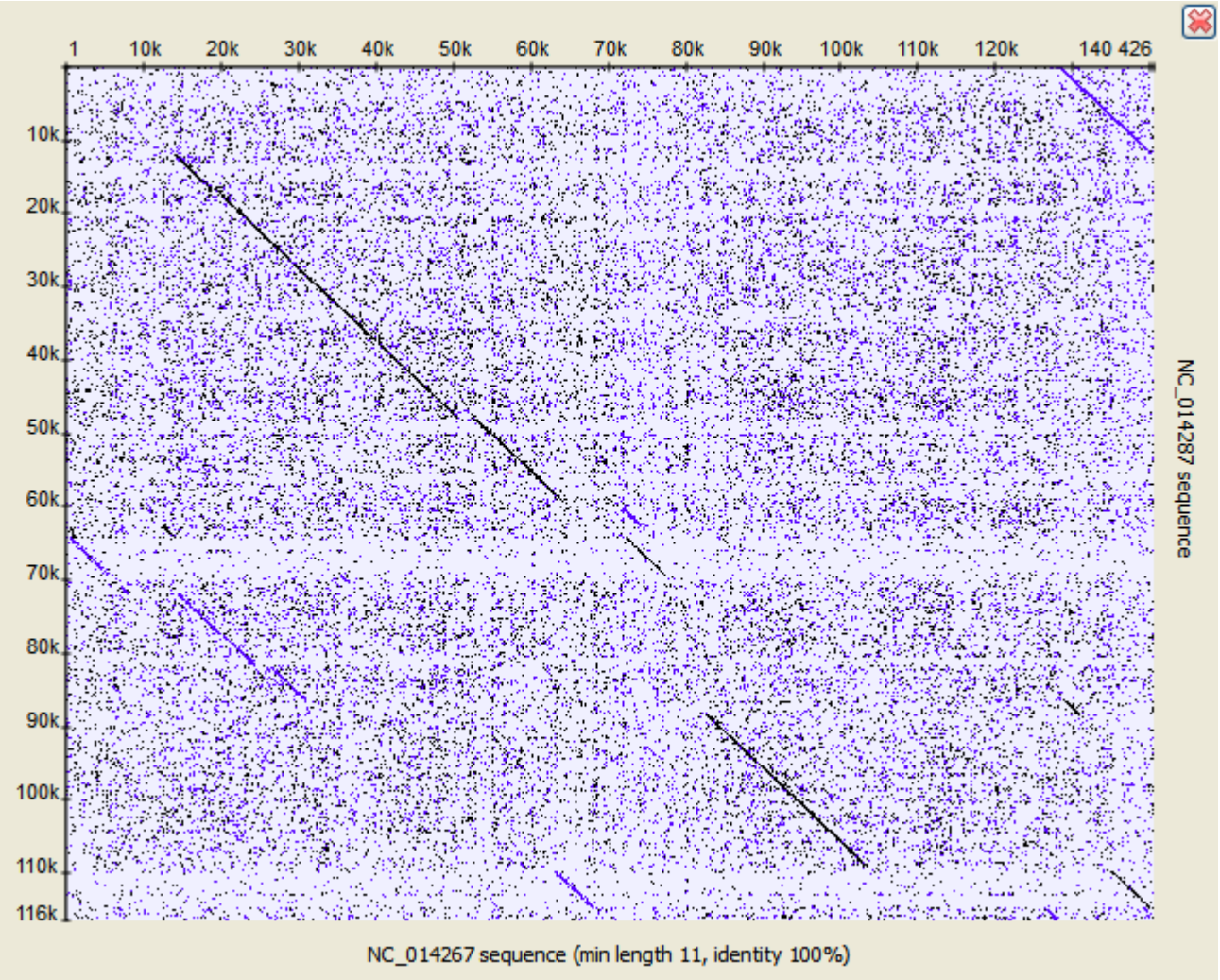
The *Chromatogram Viewer* adds support for chromatograms visualization and editing:



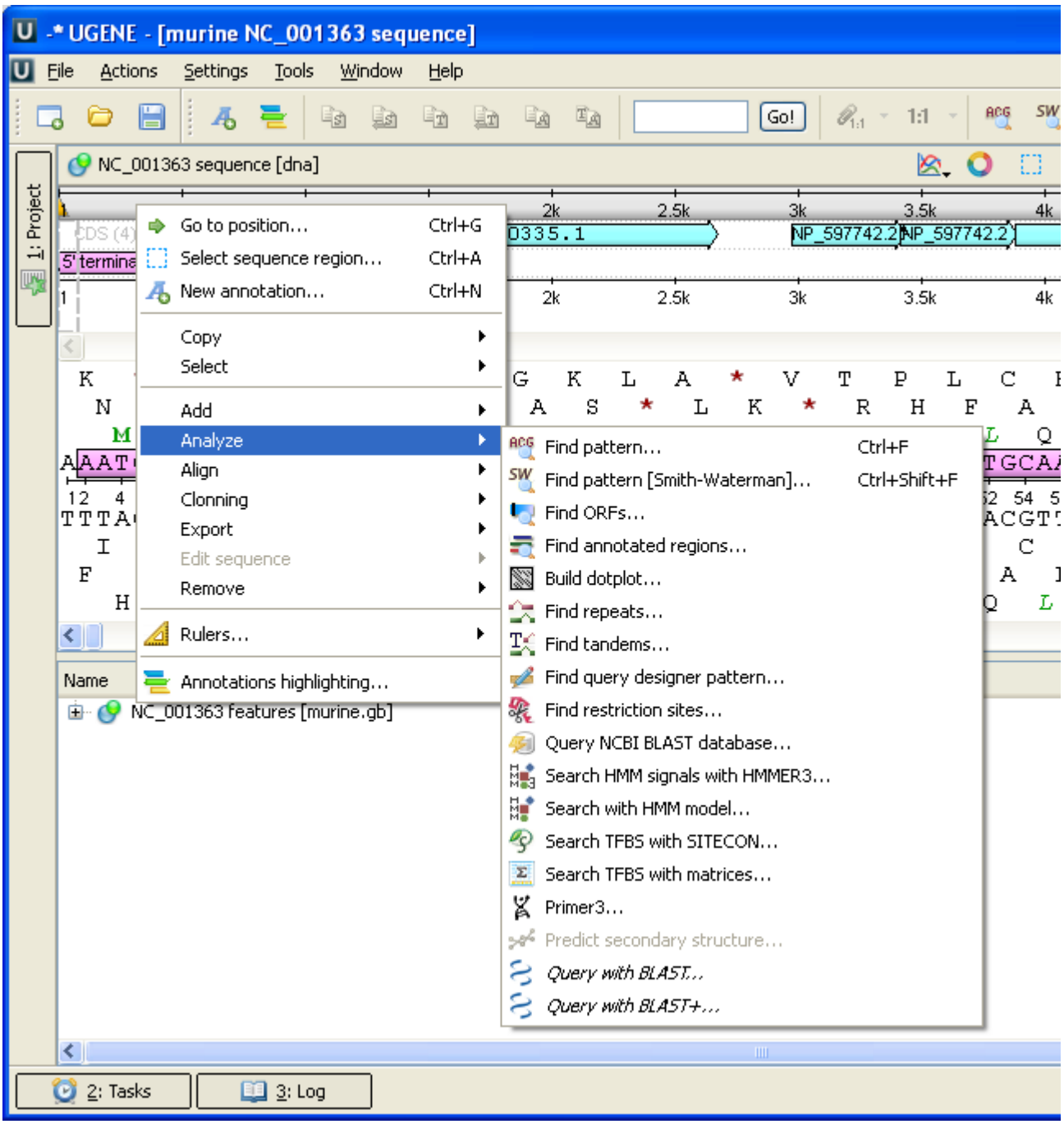
The *DNA Graphs Package* shows various graphs for sequences:



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
- 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