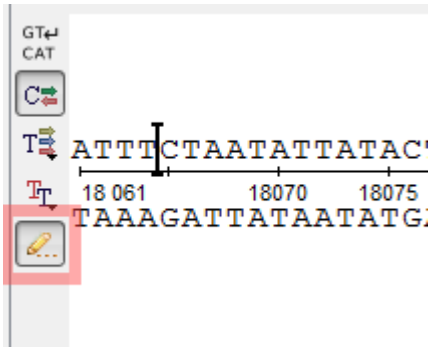
Editing Sequence

If the corresponding document is not locked, it is possible to edit a sequence.

Editing mode and annotations settings

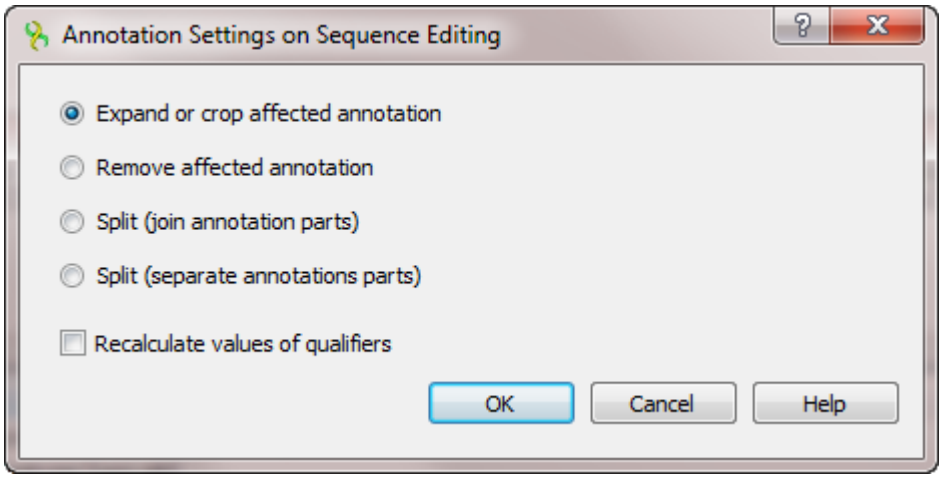
To switch on the editing mode for the sequence, select the *Edit sequence* button on the left toolbar of the *Details View*:



A special cursor appears in this case, and the sequence can be edited as in a text editor:

- To insert characters to the sequence, move the cursor to the required location and type the characters or paste them using *Ctrl + V* / *Cmd + V* key board shortcut.
- To replace a sequence region, select it and insert the new characters.
- To remove a character from the sequence, move the cursor to the required location and press *Backspace* or *Delete*. To remove a region, select it and press one of these shortcuts.

One can also configure the way how annotations located in an edited region should be modified. To open a dialog with the settings select *Edit–>Annotations settings on sequence editing* in the *Actions* main menu or in the context menu of the *Sequence View*.



Select one of the following:

- *Expand or crop affected annotation* — an annotation located in an edited region is expanded in case of characters insertion or cropped in case of characters deletion.
- *Remove affected annotation* — all annotations in an edited region are removed.
- *Split (join annotation parts)* — an annotation is split into two join elements (see "The DDBJ/ENA/GenBank Feature Table Definition" for details).
- *Split (separate annotation parts)* — an annotation is split into two annotations.

It is also possible to check the *Recalculate values of qualifiers* option in the dialog. If it is selected, qualifiers of all annotations are parsed on the sequence editing. Qualifiers values that specify coordinates (like "100..200") are re-calculated accordingly to the sequence modification. For example, the value might become "104..204", if four characters have been inserted before the corresponding annotation.

Getting reverse-complement, reverse, or complement sequence

To replace a sequence with its reverse-complement sequence, select *Edit–>Reverse-complement sequence* in the *Actions* main menu or in the context menu of the Sequence View. The keyboard shortcut for this action is *Ctrl + Shift + R* / *Cmd + Shift + R*.

Use the *Reverse sequence* or *Complement sequence* items in the same menus to replace the sequence with its reverse or complement sequence.