

# Tandem Repeats Finding

To find tandem repeats, select the *Analyze Find tandems...* context menu item in the *Sequence View* window.

In the opened dialog you can specify the tandem search parameters, the region to search in and the result parameters:

**Find Tandems**

**Base** | **Advanced**

**Tandem finder parameters**

Tandem preset: All

Min period: 1 n

Max period: 1000000 n

**Region to process**

Region: Whole sequence | 1 - 140426

**Save annotation(s) to**

☒ Existing table: NC\_014267 features [NC\_014267.1.gb]

☐ Create new table

☐ Use auto-annotations table

**Annotation parameters**

Group name: <auto>

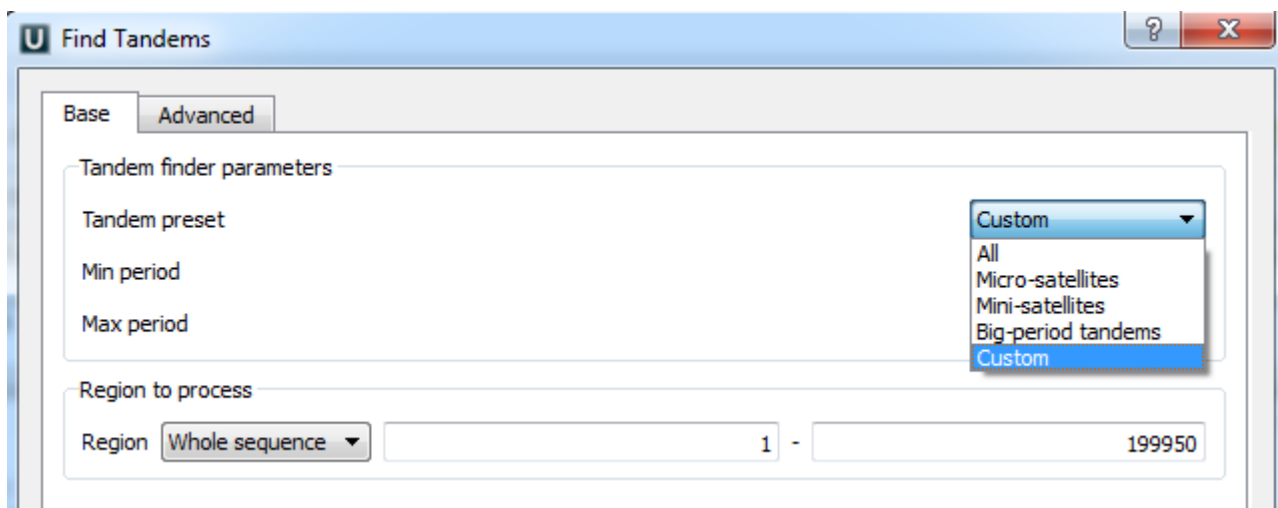
Annotation name: repeat\_unit

Description:

Start Cancel Help

The dialog parameters:

*Tandem preset* — specify the tandem repeats parameters with predefined values by selecting the available preset:

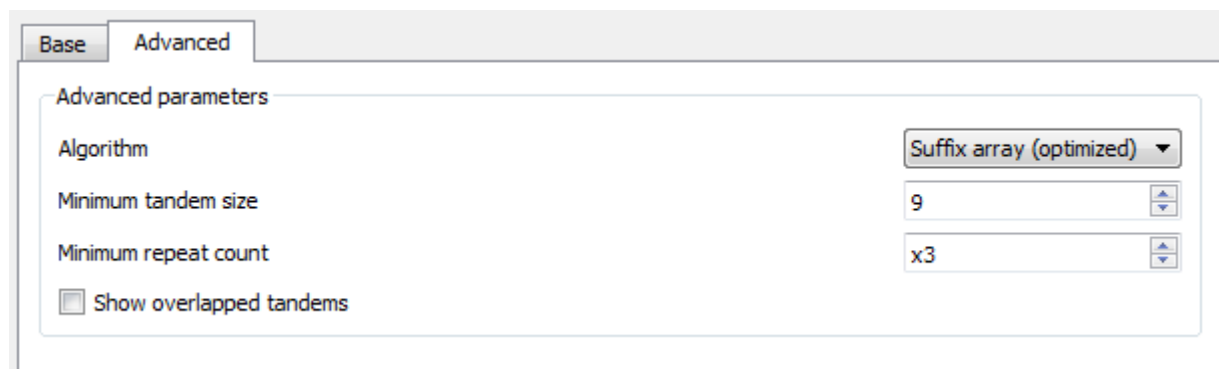


*Min period, Max period* — the minimum and maximum acceptable repeat length measured in base symbols.

*Region to process* — specify the region to search in the whole sequence, a custom region or the region of the current selection (if any).

In the *Save annotation(s) to group* you can set up a file to store annotations. It could be either an existing annotation table object, a new annotation table or auto-annotations table (if it is available).

In the *Annotation parameters* group you can specify the name of the group and the name of the annotation. If the group name is set to <auto> UGENE will use the group name as the name for the group. You can use the '/' characters in this field as a group name separator to create subgroups. If the annotation name is set to *by type* UGENE will use the annotation type from the *Annotation type*: table as the name for the annotation. Also you can add a description in the corresponding text field.



Additional search options can be found in the *Advanced* tab:

*Algorithm* — the algorithm parameter allows to select the search algorithm. The default and a fast one is optimized suffix array algorithm.

*Minimum tandem size* — the minimum tandem size sets the limit on minimum acceptable length of the tandem, i.e. the minimum total repeats length of the searched tandem.

*Minimum repeat count* — the minimum number of repeats of a searched tandem.

*Show overlapped tandems* — check if the plugin should search for the overlapped tandems, otherwise keep unchecked.

- Tandem Repeats Search Result