

DNA Generator

DNA sequence generator is a tool that generates a random DNA sequence with specified nucleotide content. To generate a random DNA sequence select the *Tools->Generate* sequence item in the main menu. The dialog will appear:

The screenshot shows a 'Generate Sequence' dialog box with the following fields and controls:

- Parameters:**
 - Length: 1000 bp
 - Window size: 1000 bp
 - Number of sequences: 1
 - ☐ Initialize random generator manually: 0
- Content:**
 - ☒ Reference
 - ☐ Manual (with a 'Configure...' button)
- Output:**
 - Output File: (empty field)
 - Format: FASTA
 - ☒ Add to project
- Buttons:** Generate, Cancel, Help

The following parameters are available:

Length - length of the resulted sequence(s) (using '1000' bp by default).

Window size - size of window where set content (using '1000' by default).

Number of sequences - number of sequences to generate (using '1' by default).

Initialize random generator manually - value to initialize the random generator.

Reference - path to the reference file (could be a sequence or an alignment).

Manual - set the base content persents. To configure base content click on the *Configure* button and set base content manually.

Output file - output file.

Format - output file format (using 'fasta' by default).

Add to project - adds the generated sequence(s) to project.

Once the *Search* button has been pressed, the sequence(s) are created.