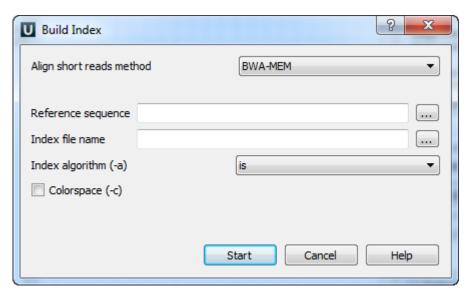
Building Index for BWA-MEM

To build BWA-SW index select the Tools NGS data analysis Build index for reads mapping item in the main menu. The Build Index dialog will appears. Set the Align short reads method parameter to BWA-MEM.

The dialog looks as follows:



There are the following parameters:

Reference sequence — DNA sequence to which short reads would be aligned to. This parameter is required.

Index file name — file to save index to. This parameter is required.

Index algorithm (-a) — Algorithm for constructing BWA index. Available options are:

It implements three different algorithms

- is designed for short reads up to ~200bp with low error rate (<3%). It does gapped global alignment w.r.t. reads, supports paired-end reads, and is one of the fastest short read alignment algorithms to date while also visiting suboptimal hits.
- bwtsw is designed for long reads with more errors. It performs heuristic Smith-Waterman-like alignment to find high-scoring local hits.
 Algorithm implemented in BWA-SW. On low-error short queries, BWA-SW. is slower and less accurate than the is algorithm, but on long reads, it is better.
- div does not work for long genomes.

Colorspace (-c) — the input is read in colorspace, colors are encoded as characters A/C/G/T (A=blue, C=green, G=orange, T=red).