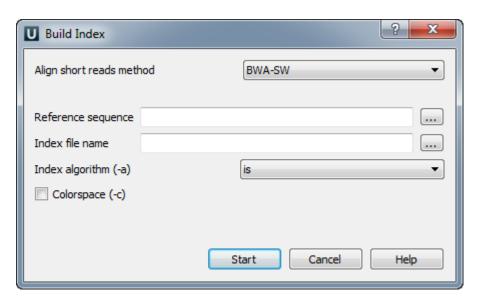
Building Index for BWA-SW

To build BWA-SW index select the Tools Align to reference Build Index item in the main menu. The Build Index dialog will appears. Set the Align short reads method parameter to BWA-SW.

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