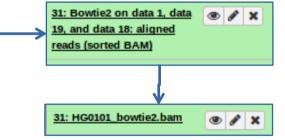


Alignment with bowtie2

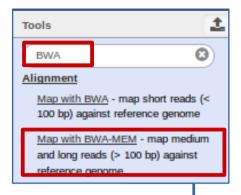
GRCh37_region1.fasta

150 000nt, chr20

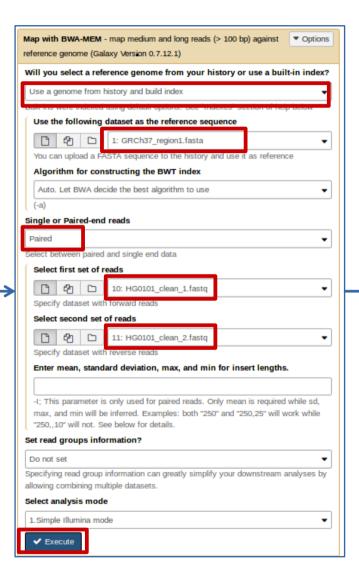


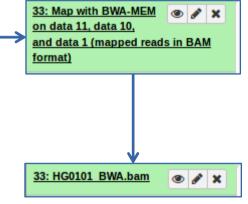
Save the bowtie2 mapping statistics to the history

Yes No



Alignment with BWA





Playing with options of Bowtie2

Read file: tweak_single_end.fq

Three reads, single-end

Same reference: GRCh37_region1.fasta

Default parameters

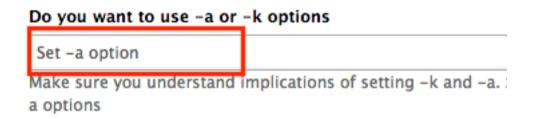
Is this single or paired library

Single-end

How many alignments do you find?

Option -a (all alignments)

Select analysis mode 2: Full parameter list



Sensitivity

Select analysis mode

1: Default setting only

Do you want to use presets?

No, just use defaults
Very fast end-to-end (--very-fast)
Fast end-to-end (--fast)
Sensitive end-to-end (--sensitive)
Very sensitive end-to-end (--very-sensitive)
Very fast local (--very-fast-local)
Fast local (--fast-local)
Sensitive local (--sensitive-local)
Very sensitive local (--very-sensitive-local)

End-to-endmode versus local mode

Select analysis mode

1: Default setting only

Do you want to use presets?

- No, just use defaults
- Overy fast end-to-end (--very-fast)
- O Fast end-to-end (--fast)
- O Sensitive end-to-end (--sensitive)
- Overy sensitive end-to-end (--very-sensitive)
- O Very fast local (--very-fast-local)
- O Fast local (--fast-local)
- O Sensitive local (--sensitive-local)
- Overy sensitive local (--very-sensitive-local)

Allow selecting among several preset parameter settings. Choosing between these will understand effects of these presets.

Concordant/discordant (paired reads)

```
concordant_discordant1.fq
concordant_discordant2.fq
```

```
Read 1 (2x180nt): 19861 + / 20161 + Read 2 (2x180nt): 29341 + / 29641 - Read 3 (2x180nt): 42301 + / 50401 - Read4 (2x180nt): / 149341 +
```