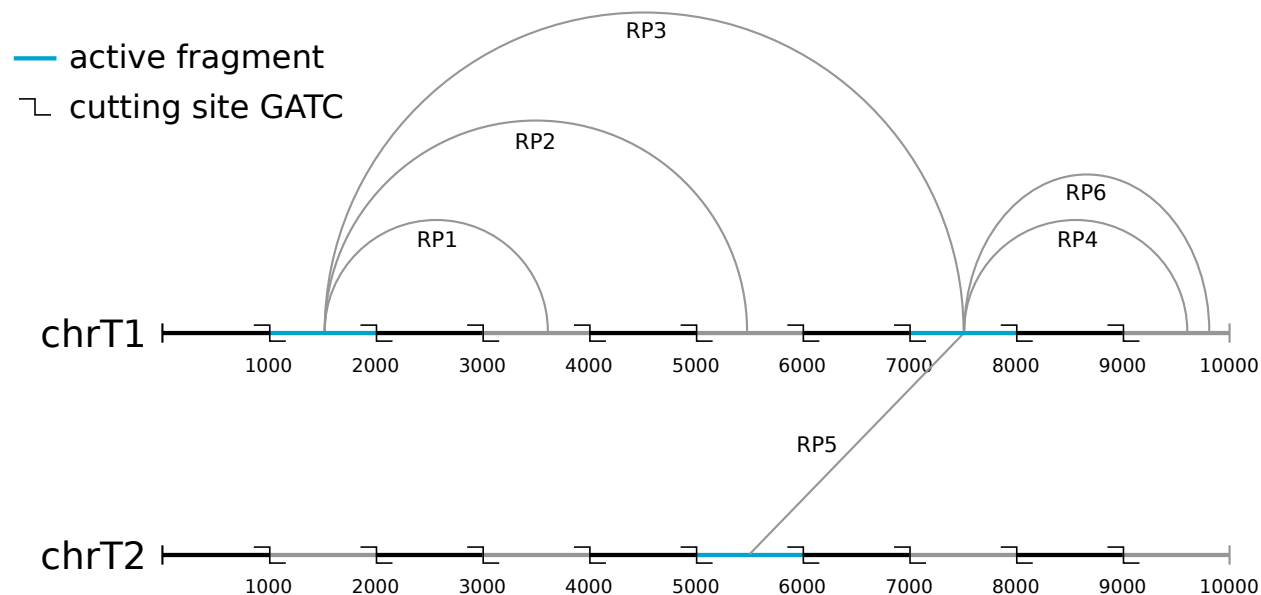


Test files for testing of class InteractionCountsMap



Preparation of FASTQ files

Filenames:

testInteractionCountsMap_R1.fq
testInteractionCountsMap_R2.fq

6 unique read pairs

Read length: 20

Preparation reference sequence file

Filename:

testInteractionCountsMapReference.fa

One unit has 1000 bp and ends with GATC.
Fragments mainly consist of Ns.

The file for digests as well as FASTA
and bowtie2 indices for have already
been created.

Additionally, there is a file containing coordinates
for active fragments (blue).

Find all files in:

src/test/resources/data/testInteractionCountsMap

Running this command:

```
$ ../../../../target/Diachromatic.jar map -b /usr/bin/bowtie2 -i testInteractionCountsMapReference -q testInteractionCountsMap_R1.fq -r testInteractionCountsMap_R2.fq -d testInteractionCountsMapDigests.txt -j
```

Yields interaction counts:

```
chrT1 997 1996 A chrT1 2997 3996 I 1  
chrT1 997 1996 A chrT1 4997 5996 I 1  
chrT1 997 1996 A chrT1 6997 7996 A 1  
chrT1 6997 7996 A chrT1 8997 9996 I 2  
chrT2 4997 5996 A chrT1 6997 7996 A 1
```

Filename:

diachromatic.interacting.fragments.counts.table.tsv

And read counts at interacting fragments:

```
chrT1 997 1996 A 3  
chrT1 2997 3996 I 1  
chrT1 4997 5996 I 1  
chrT1 6997 7996 A 4  
chrT1 8997 9996 I 2
```

Filename:

diachromatic.interaction.counts.table.ts
diachromatic.interaction.counts.table.tsv

A means active and I inactive.