

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:36:02

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/863
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 863 .nodup.bam
Program:	bwa (0.7.17-r1188)
Analyze overlapping paired-end reads:	no
Command line:	bwa mem -M -t 8 -R @RG\tID:\$unit\tPL:Illumina\tLB:LibA\t SM:\$sample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ. v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_452/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_452_S427_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_452/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_452_S427_L004 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:36:01 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	77,214,386
Mapped reads	71,888,466 / 93.1%
Unmapped reads	5,325,920 / 6.9%
Mapped paired reads	71,888,466 / 93.1%
Mapped reads, first in pair	36,034,094 / 46.67%
Mapped reads, second in pair	35,854,372 / 46.43%
Mapped reads, both in pair	70,186,647 / 90.9%
Mapped reads, singletons	1,701,819 / 2.2%
Read min/max/mean length	30 / 151 / 148.12
Duplicated reads (flagged)	10,881,245 / 14.09%
Clipped reads	16,090,133 / 20.84%

2.2. ACGT Content

Number/percentage of A's	3,092,302,237 / 31.07%
Number/percentage of C's	1,884,373,308 / 18.93%
Number/percentage of T's	3,091,943,777 / 31.07%
Number/percentage of G's	1,883,979,906 / 18.93%
Number/percentage of N's	34,956 / 0%
GC Percentage	37.86%

2.3. Coverage

Mean	32.0189
Standard Deviation	240.6285

2.4. Mapping Quality

Mean Mapping Quality	44.56
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2.5. Insert size

Mean	246,951.1
Standard Deviation	2,375,415.34
P25/Median/P75	355 / 467 / 612

2.6. Mismatches and indels

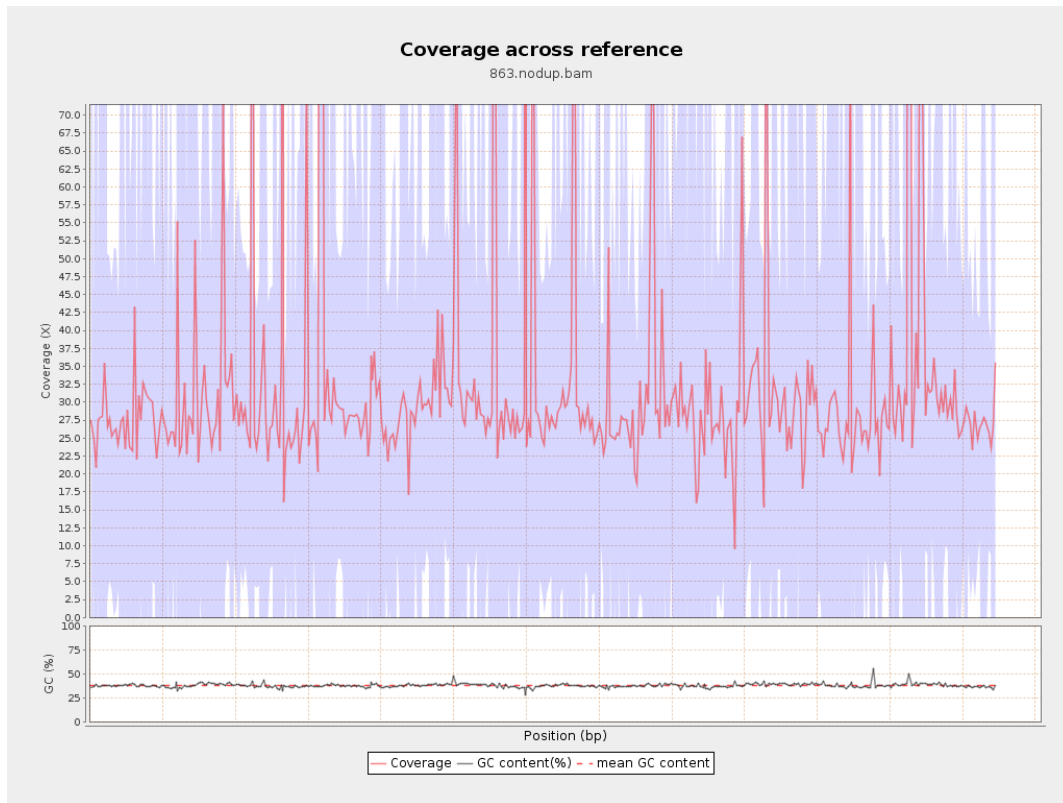
General error rate	2.29%
Mismatches	208,582,464
Insertions	6,835,295
Mapped reads with at least one insertion	8.52%
Deletions	6,907,855
Mapped reads with at least one deletion	8.54%
Homopolymer indels	57.39%

2.7. Chromosome stats

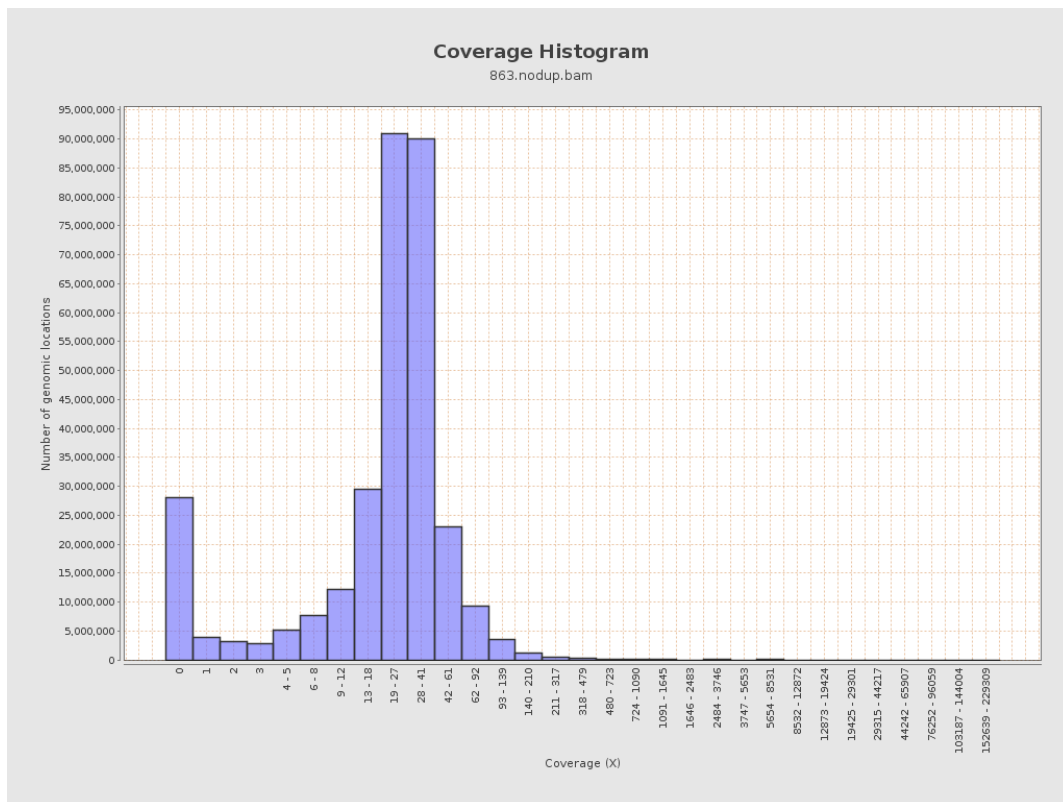
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	812064182	27.3198	84.083

LT669789.1	36598175	1207111972	32.9828	271.0931
LT669790.1	30422129	1101289973	36.2003	306.3459
LT669791.1	52758100	1666913416	31.5954	232.3264
LT669792.1	28376109	920401138	32.4358	263.3518
LT669793.1	33388210	1001833981	30.0056	166.8005
LT669794.1	50579949	1543049809	30.5071	228.7087
LT669795.1	49795044	1725784759	34.6578	279.7778

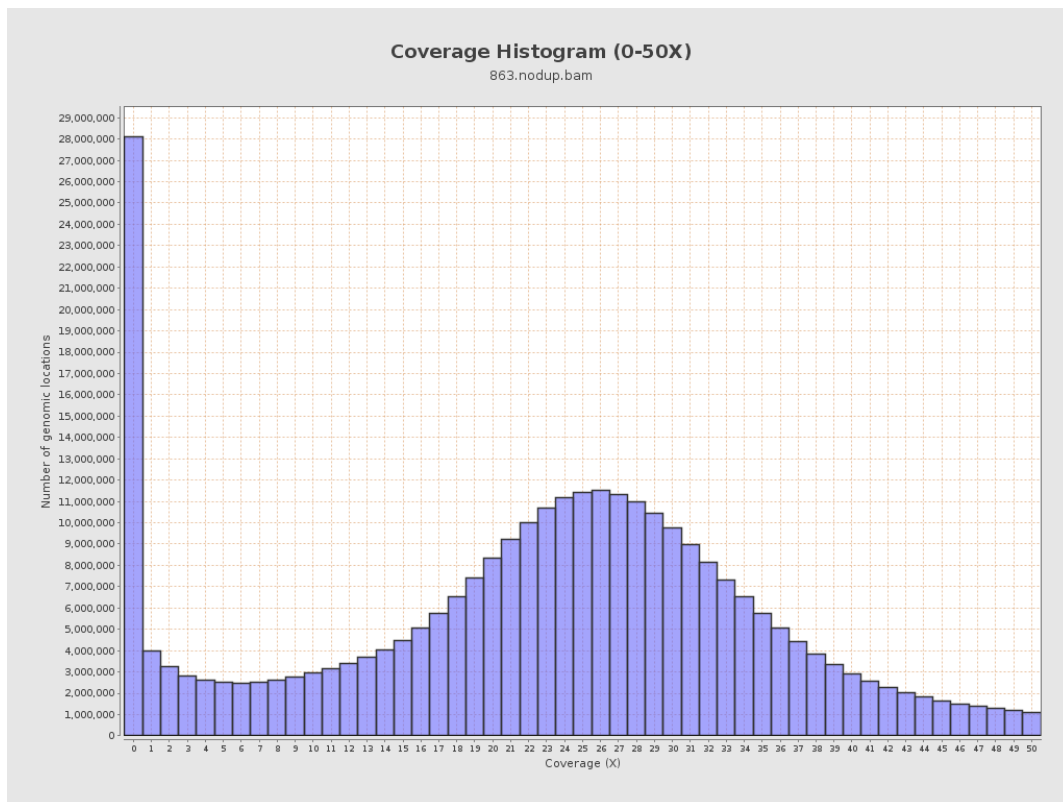
3. Results : Coverage across reference



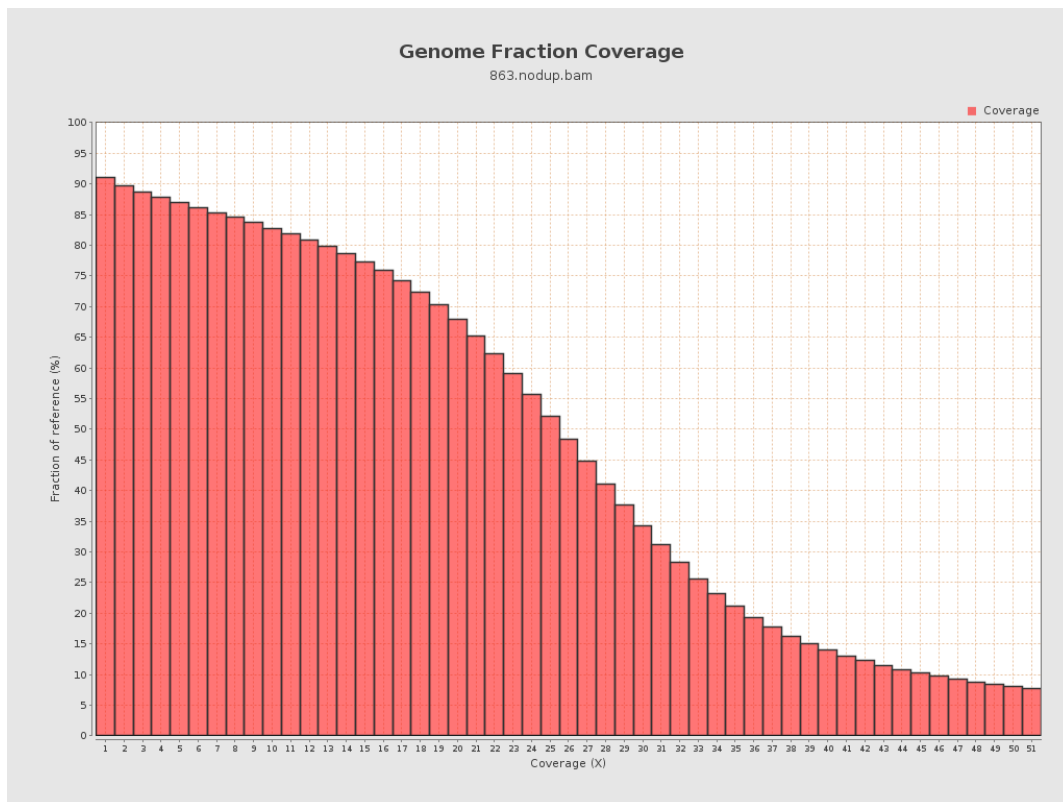
4. Results : Coverage Histogram



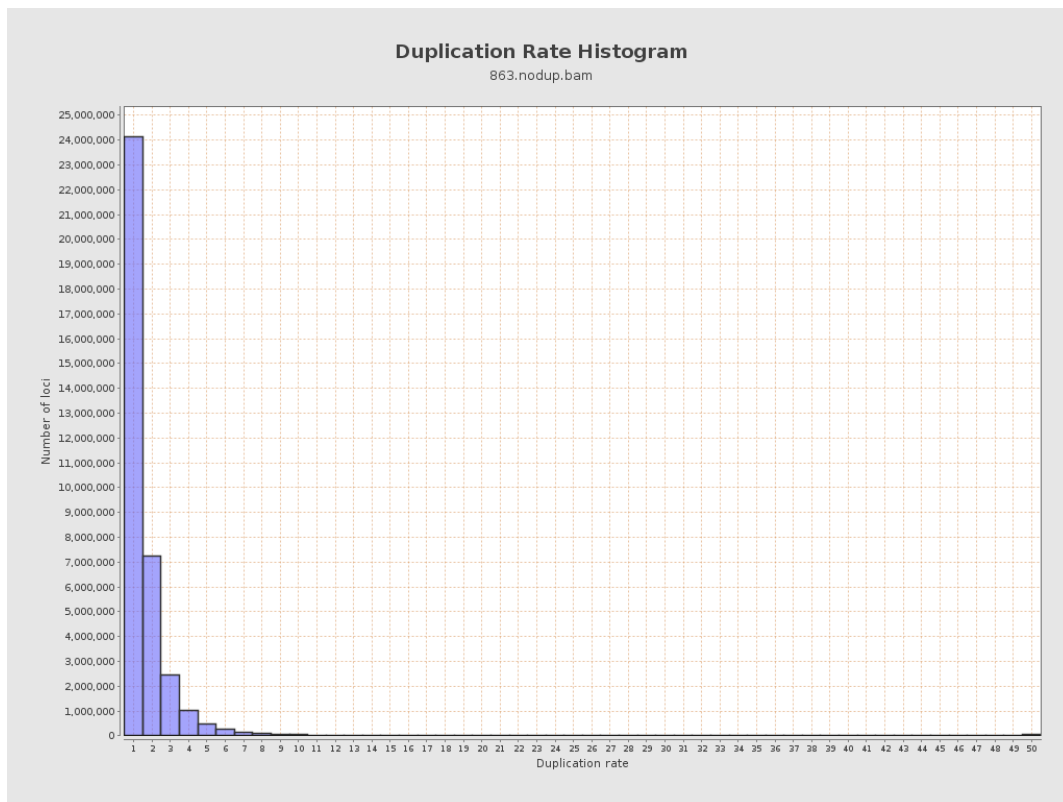
5. Results : Coverage Histogram (0-50X)



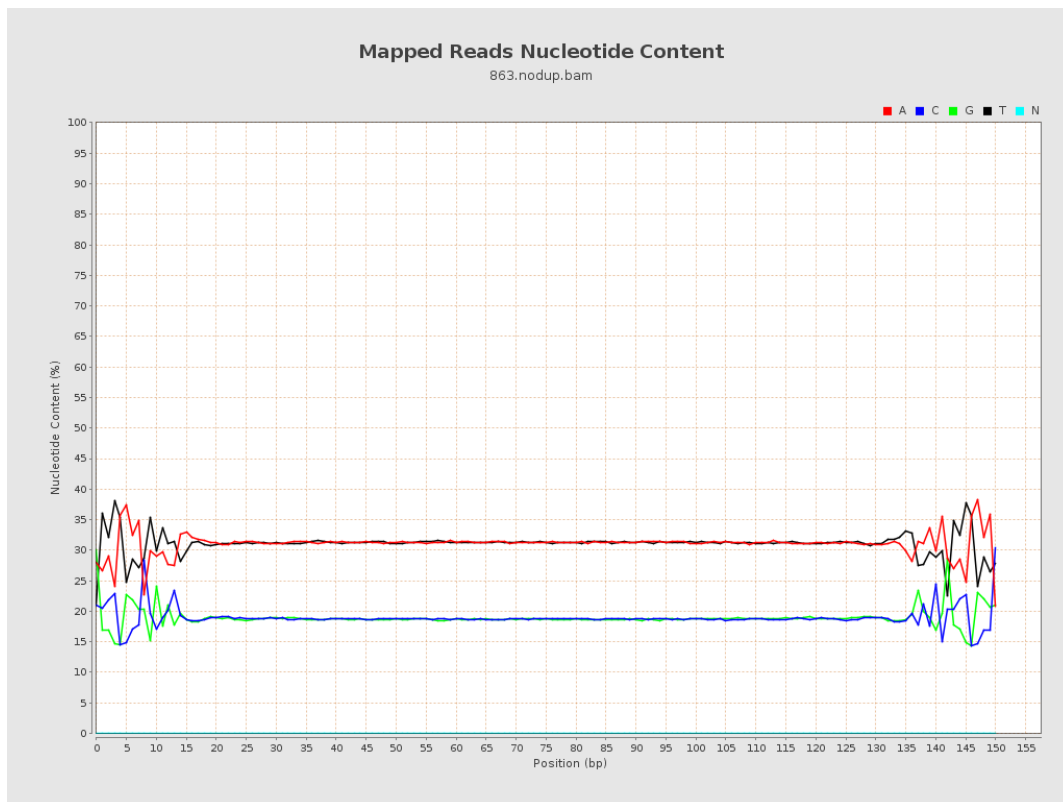
6. Results : Genome Fraction Coverage



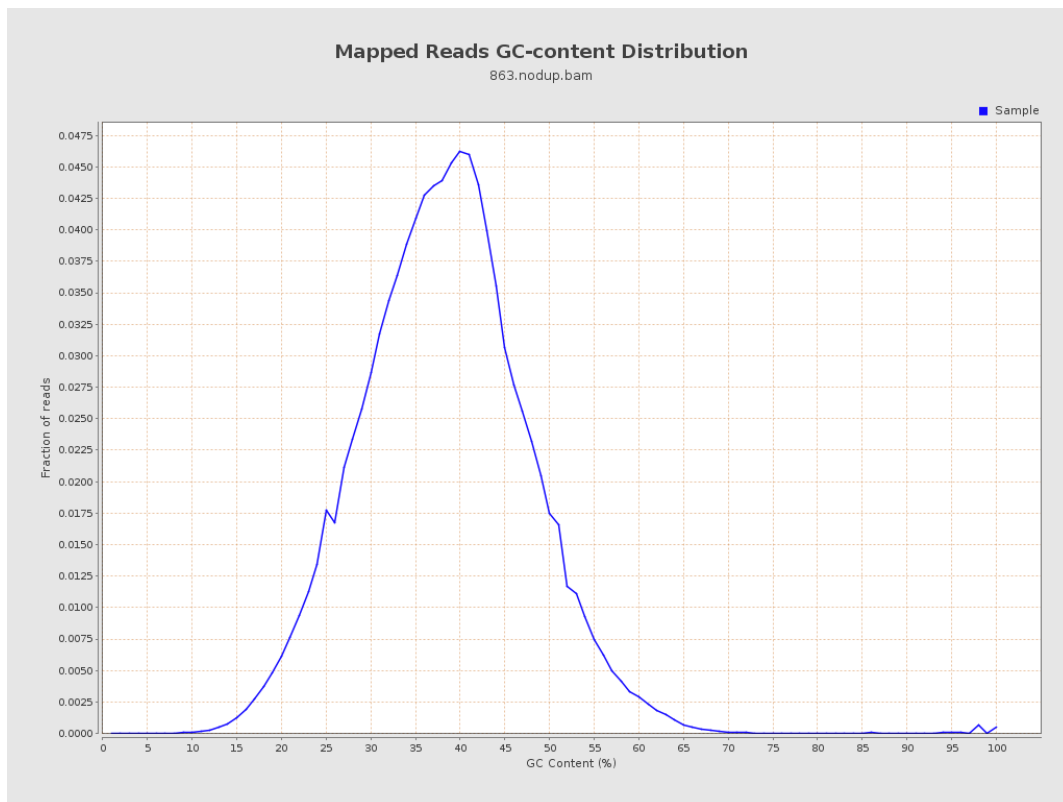
7. Results : Duplication Rate Histogram



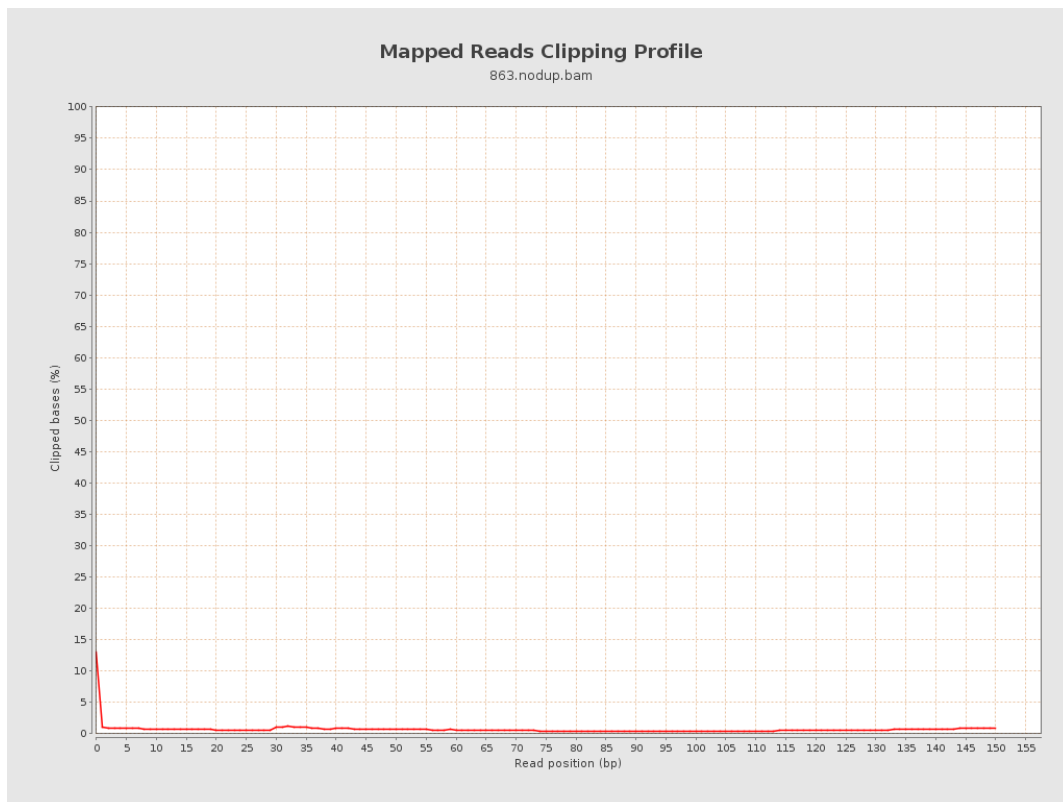
8. Results : Mapped Reads Nucleotide Content



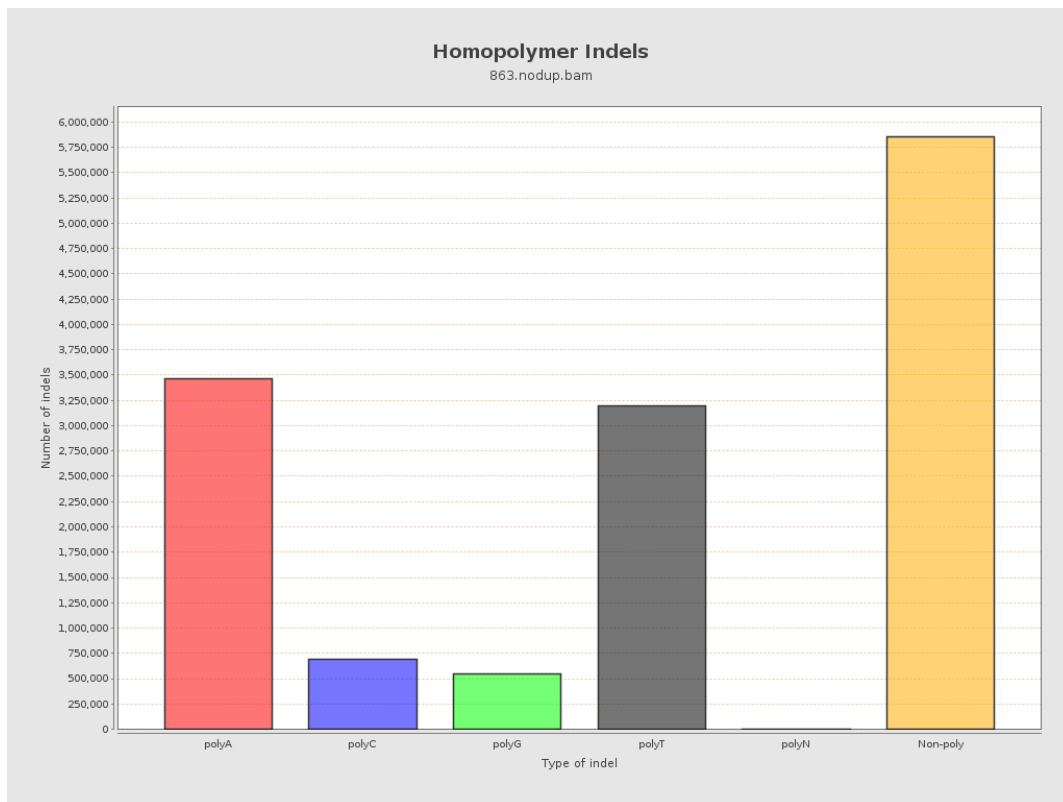
9. Results : Mapped Reads GC-content Distribution



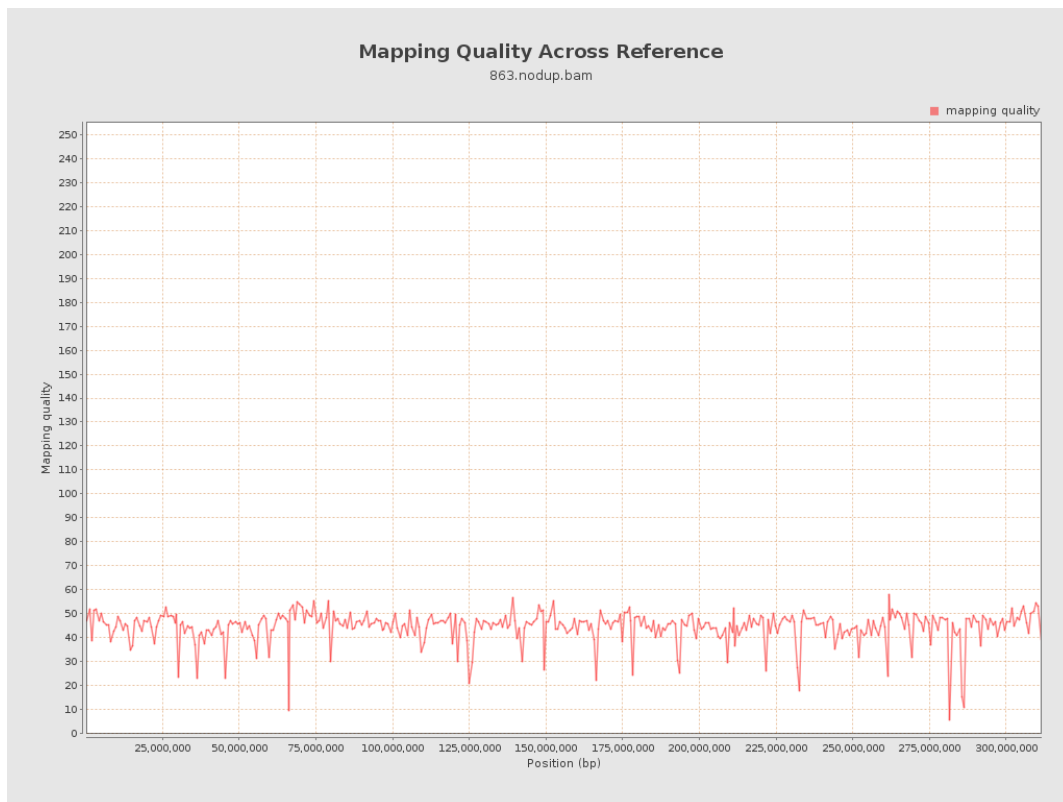
10. Results : Mapped Reads Clipping Profile



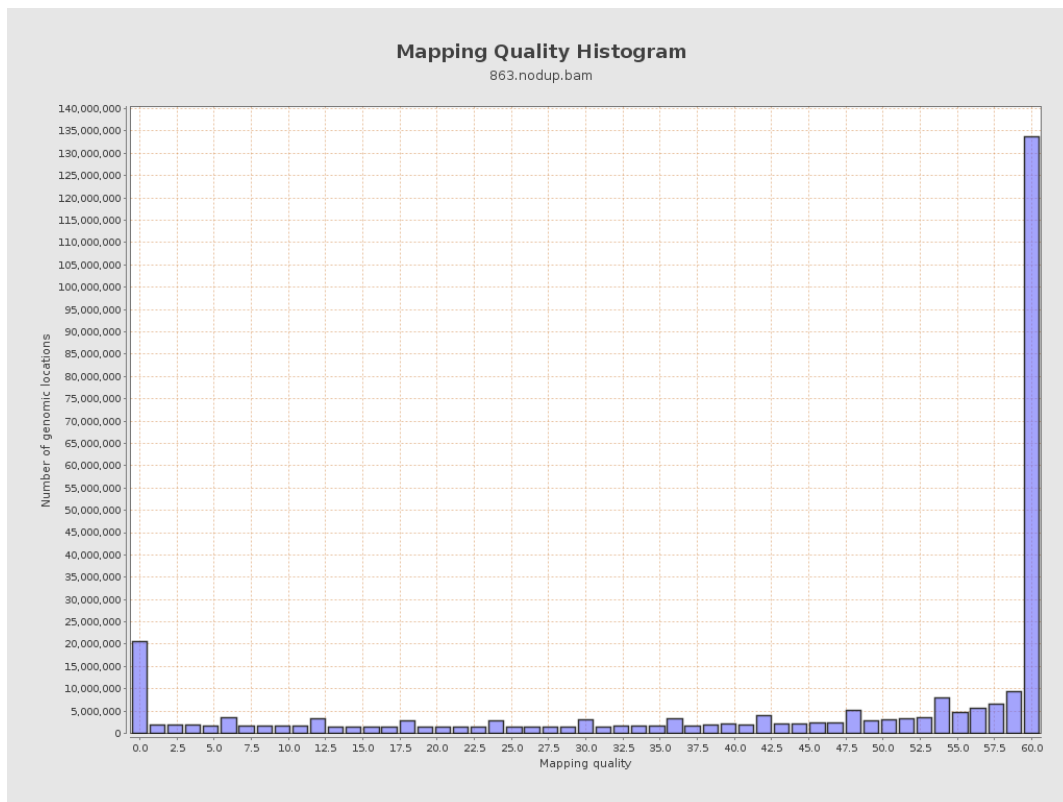
11. Results : Homopolymer Indels



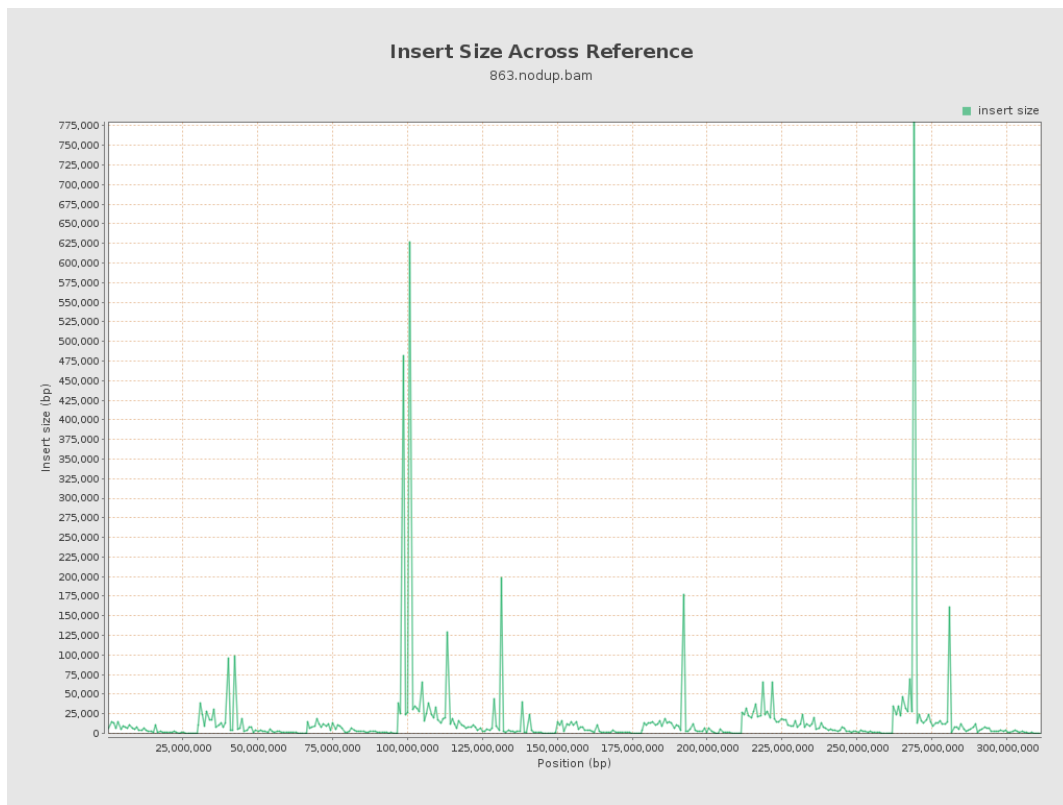
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

