

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/947
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/947 .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\tSM:\$sample /proj/uppstore2018210/Aalpina/data/reference/GCA_900128785.1_MPIPZ.v5_genomic.fa /proj/uppstore2018210/Aalpina/data/awdata/P26207/P26207_435/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_435_S410_L004_R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/awdata/P26207/P26207_435/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_435_S410_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	78,410,726
Mapped reads	74,418,229 / 94.91%
Unmapped reads	3,992,497 / 5.09%
Mapped paired reads	74,418,229 / 94.91%
Mapped reads, first in pair	37,279,461 / 47.54%
Mapped reads, second in pair	37,138,768 / 47.36%
Mapped reads, both in pair	73,139,926 / 93.28%
Mapped reads, singletons	1,278,303 / 1.63%
Read min/max/mean length	30 / 151 / 148.19
Duplicated reads (flagged)	11,701,359 / 14.92%
Clipped reads	15,768,043 / 20.11%

2.2. ACGT Content

Number/percentage of A's	3,204,607,630 / 30.83%
Number/percentage of C's	1,994,357,064 / 19.19%
Number/percentage of T's	3,207,894,564 / 30.86%
Number/percentage of G's	1,986,856,809 / 19.12%
Number/percentage of N's	36,903 / 0%
GC Percentage	38.3%

2.3. Coverage

Mean	33.438
Standard Deviation	272.2772

2.4. Mapping Quality

Mean Mapping Quality	43.99
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2.5. Insert size

Mean	219,107.01
Standard Deviation	2,193,955.33
P25/Median/P75	331 / 433 / 571

2.6. Mismatches and indels

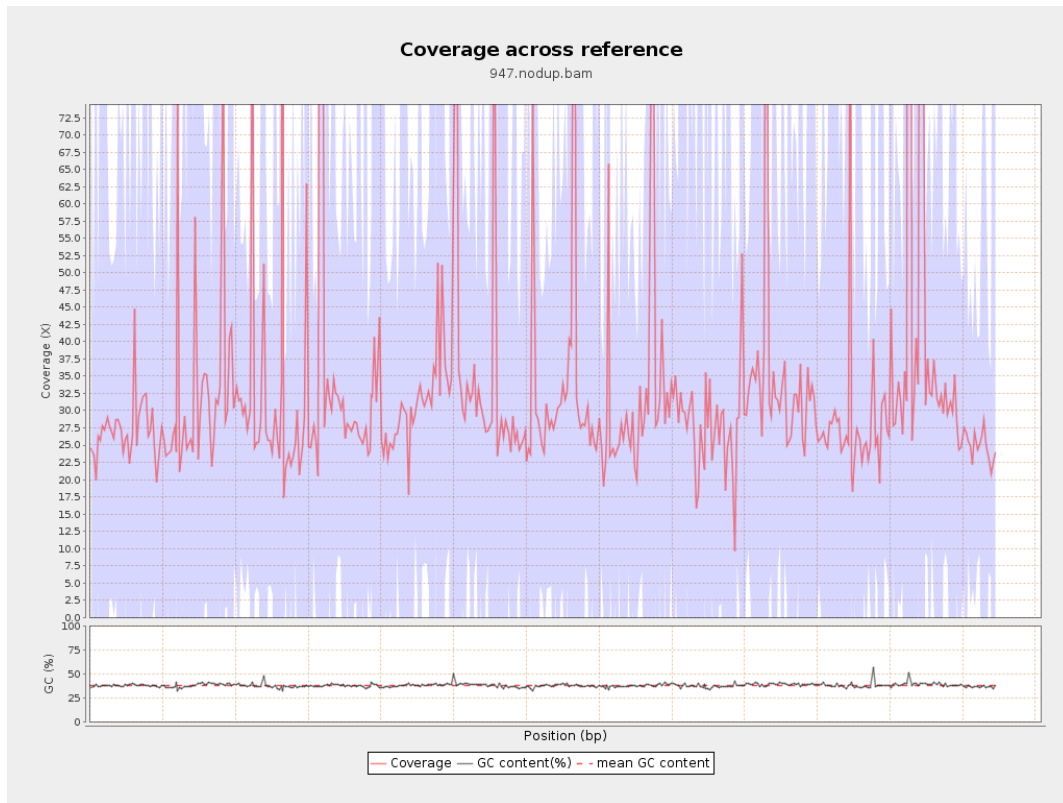
General error rate	2.28%
Mismatches	218,191,622
Insertions	6,803,659
Mapped reads with at least one insertion	8.24%
Deletions	7,118,785
Mapped reads with at least one deletion	8.49%
Homopolymer indels	56.02%

2.7. Chromosome stats

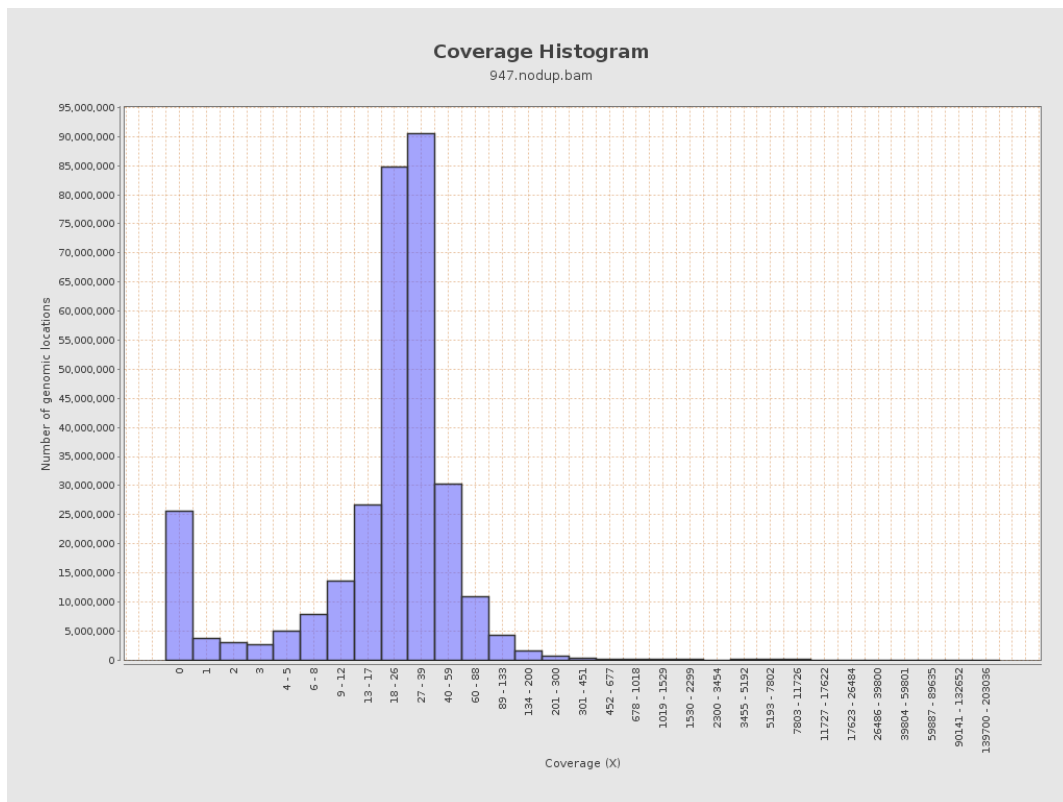
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	797716453	26.8371	69.9515

LT669789.1	36598175	1247263927	34.0799	293.699
LT669790.1	30422129	1038845462	34.1477	235.2516
LT669791.1	52758100	1741954456	33.0178	211.3763
LT669792.1	28376109	914814913	32.2389	296.7334
LT669793.1	33388210	1049126115	31.4221	189.0915
LT669794.1	50579949	1625973322	32.1466	242.0162
LT669795.1	49795044	2005006674	40.2652	427.5257

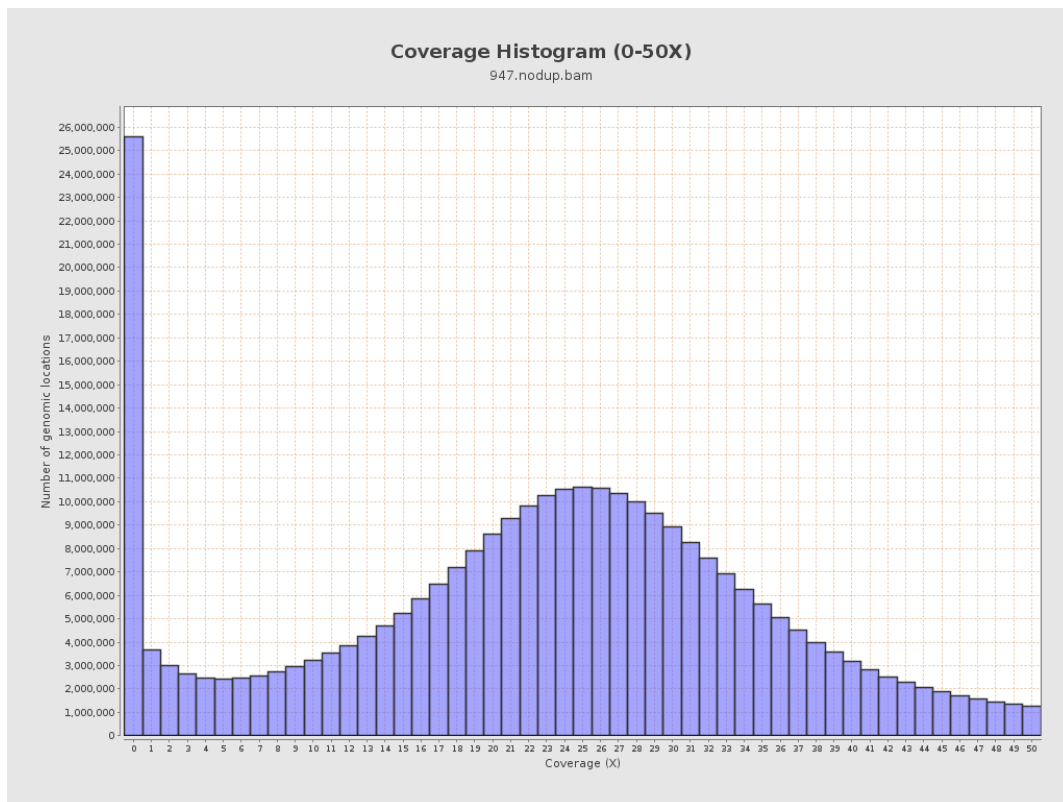
3. Results : Coverage across reference



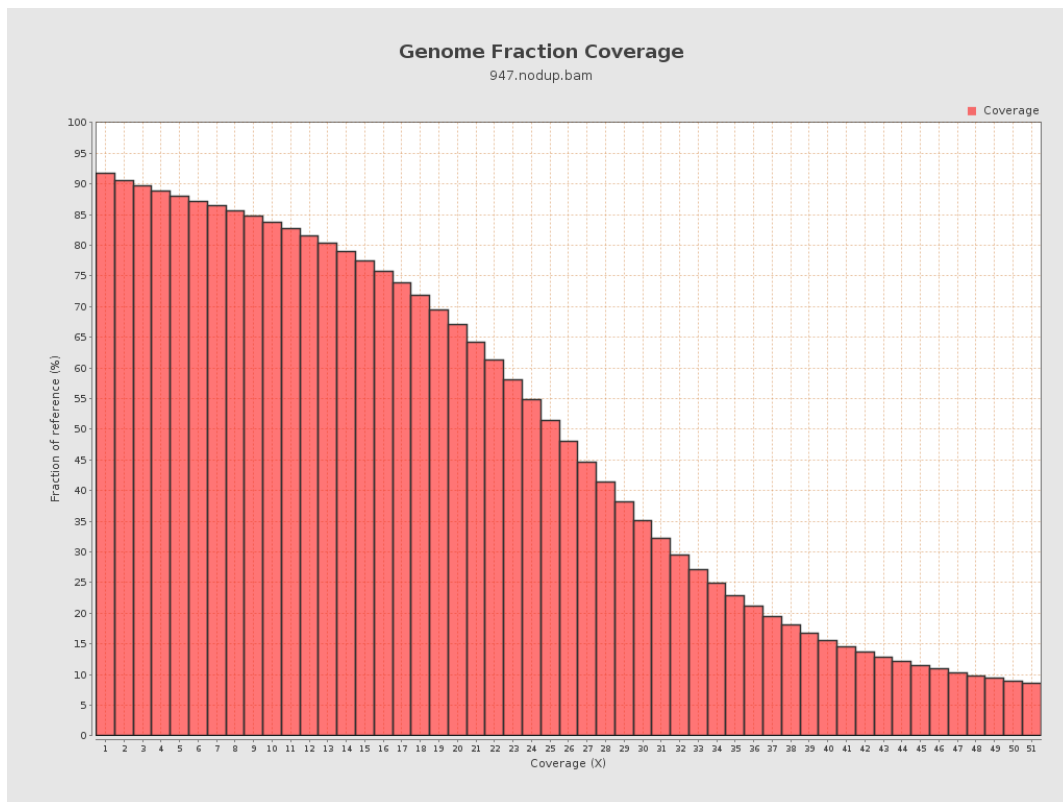
4. Results : Coverage Histogram



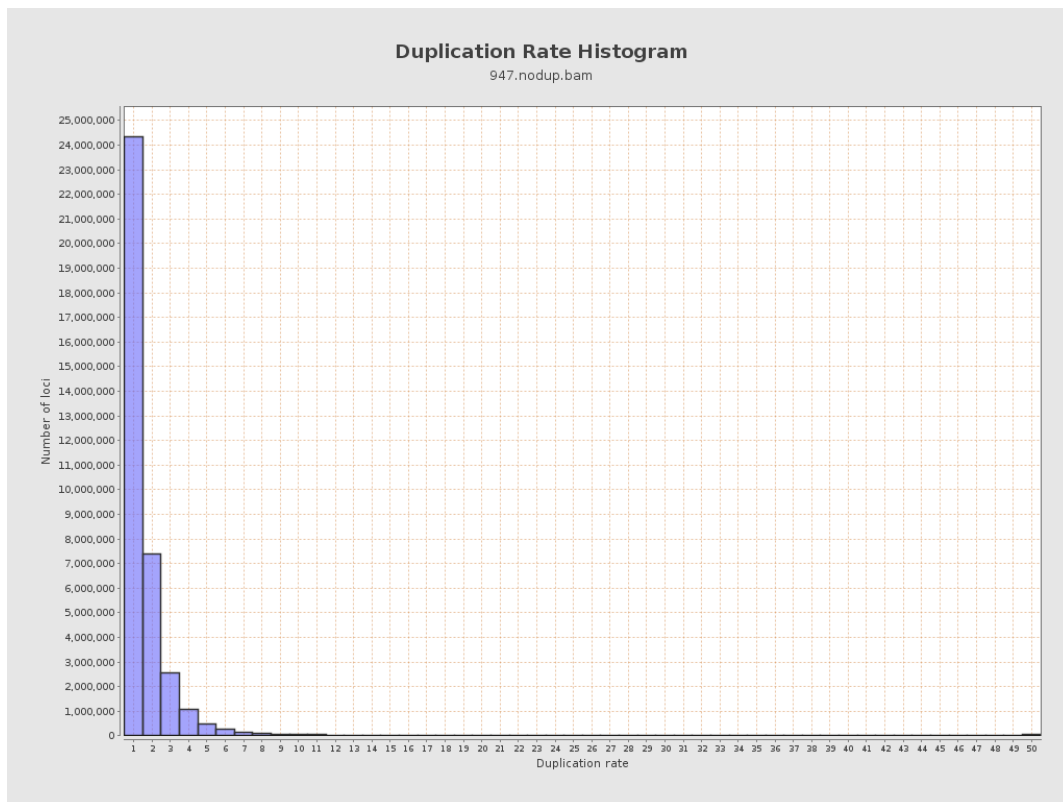
5. Results : Coverage Histogram (0-50X)



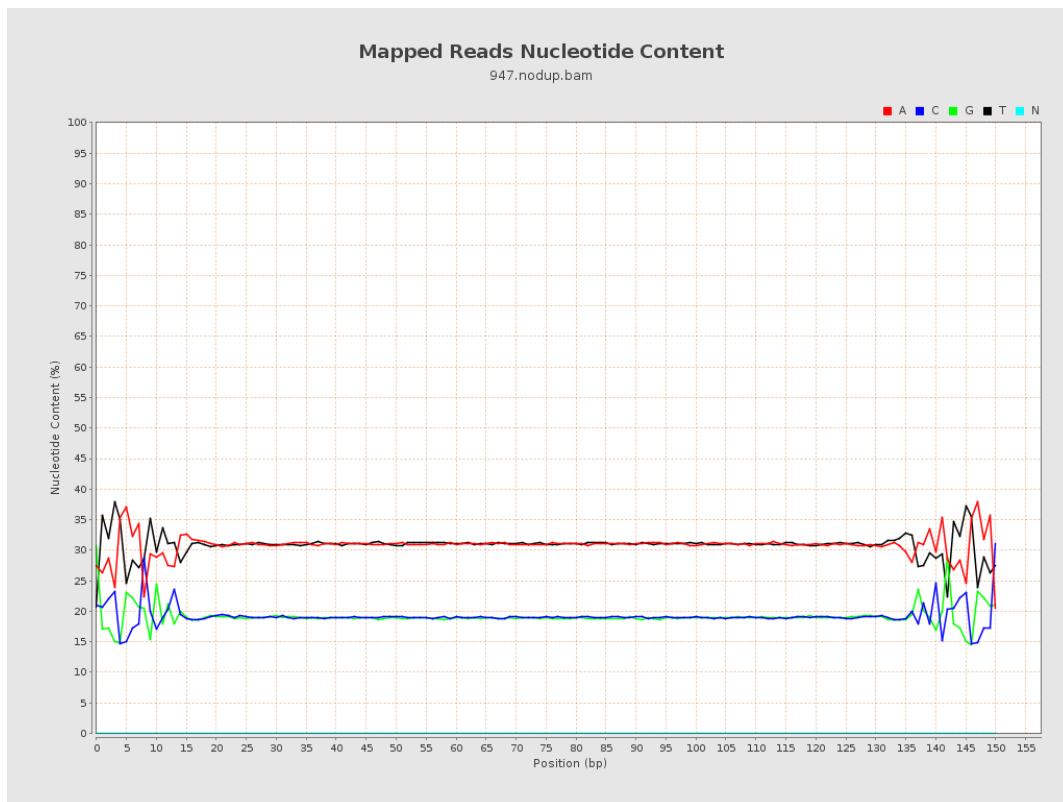
6. Results : Genome Fraction Coverage



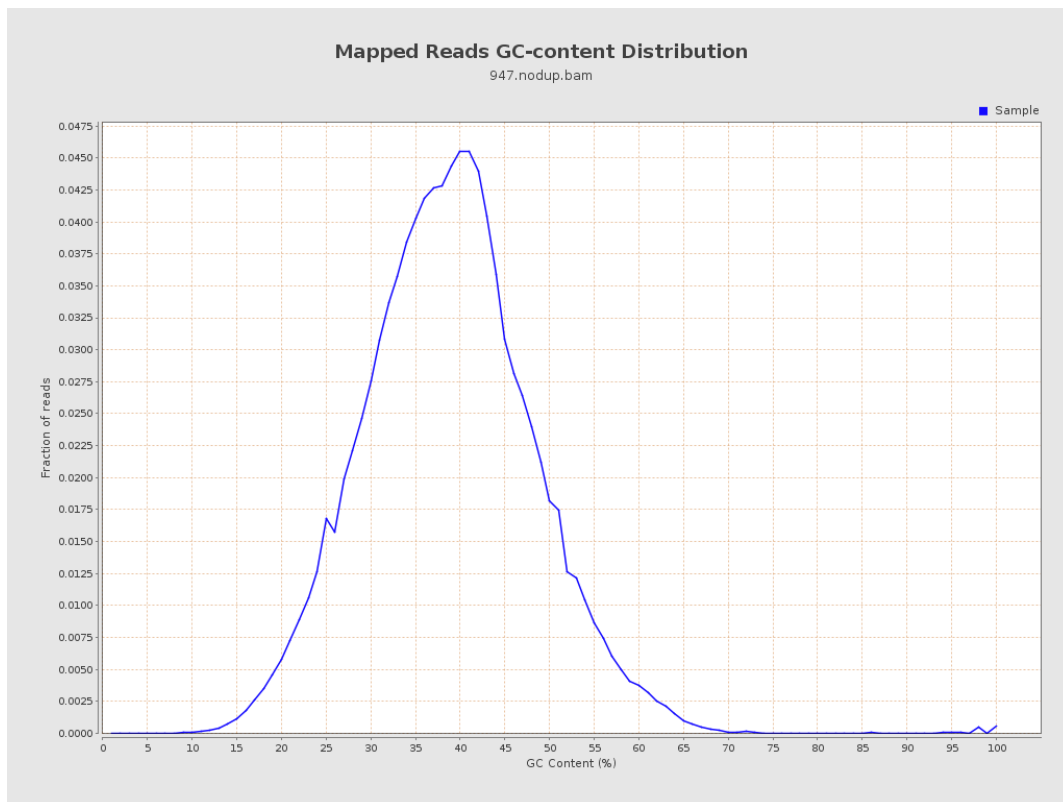
7. Results : Duplication Rate Histogram



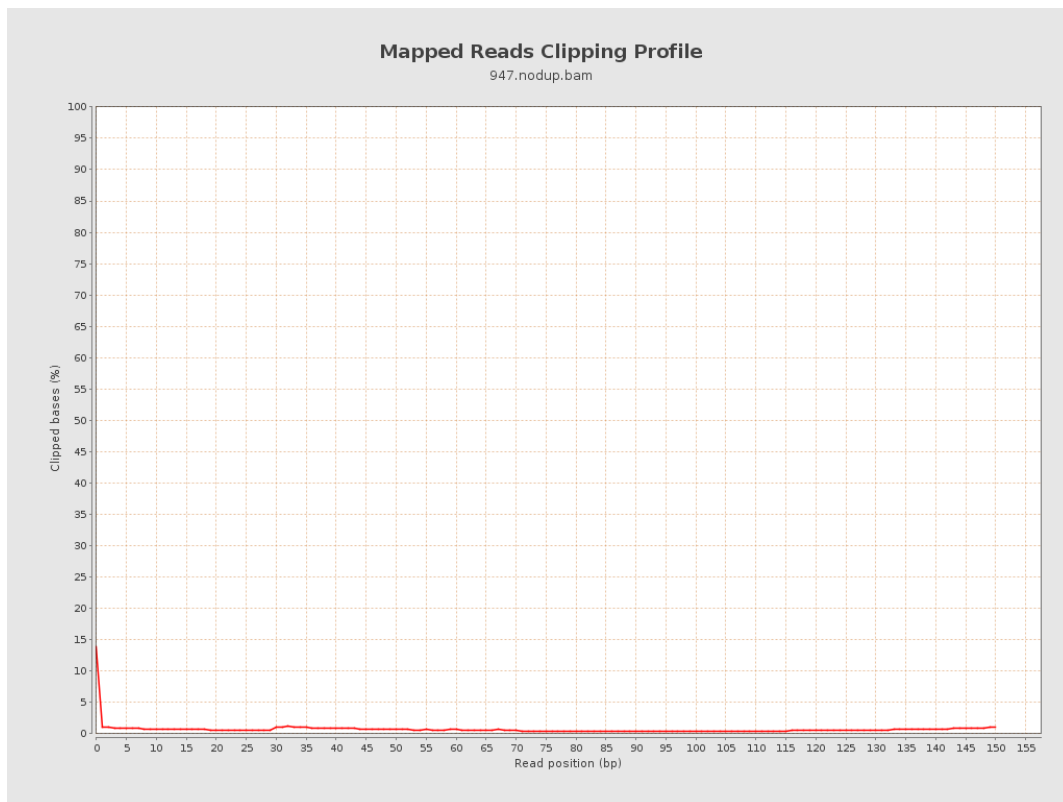
8. Results : Mapped Reads Nucleotide Content



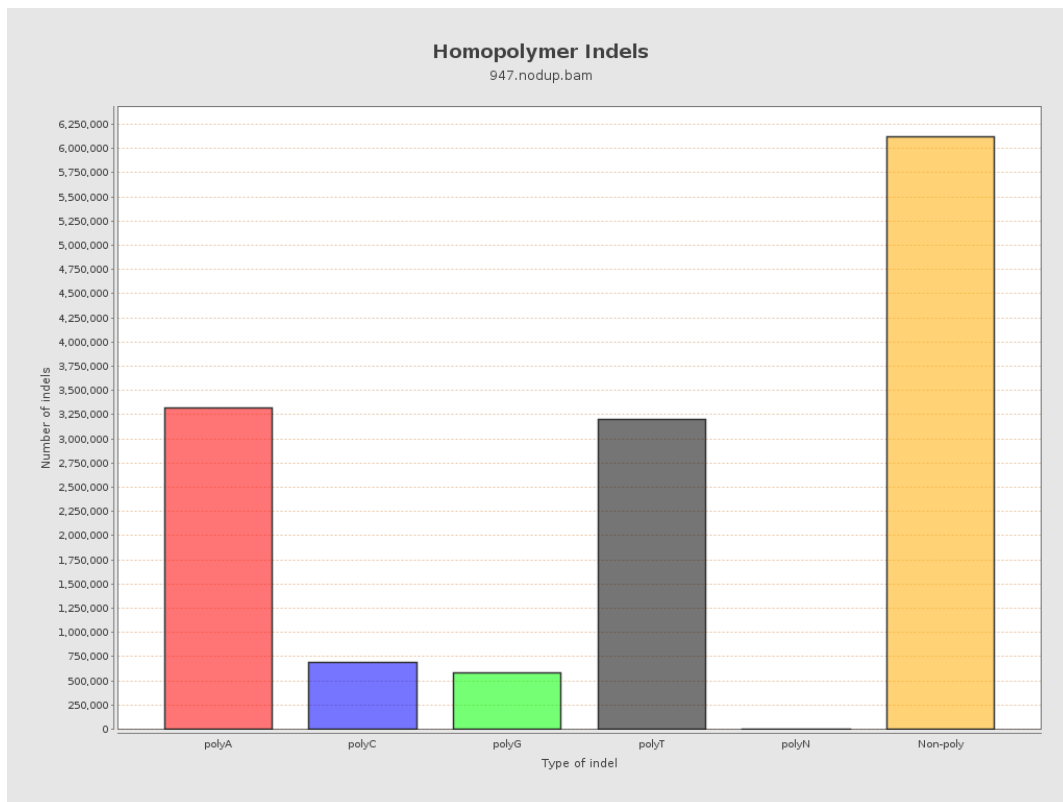
9. Results : Mapped Reads GC-content Distribution



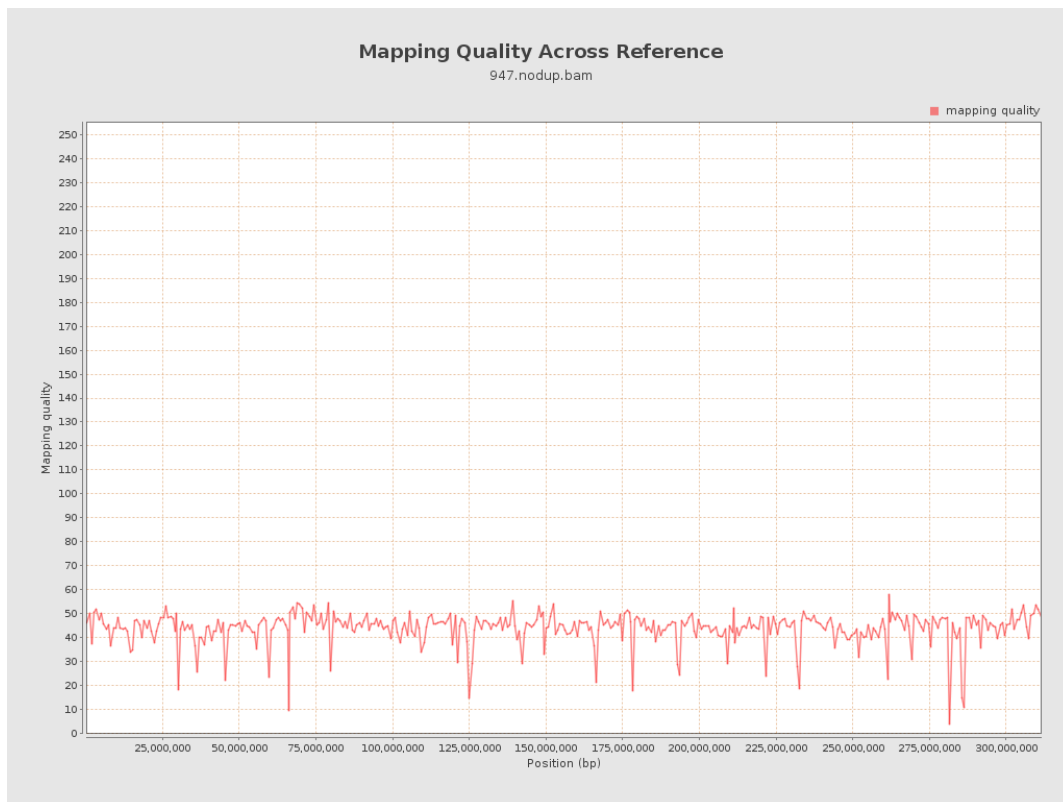
10. Results : Mapped Reads Clipping Profile



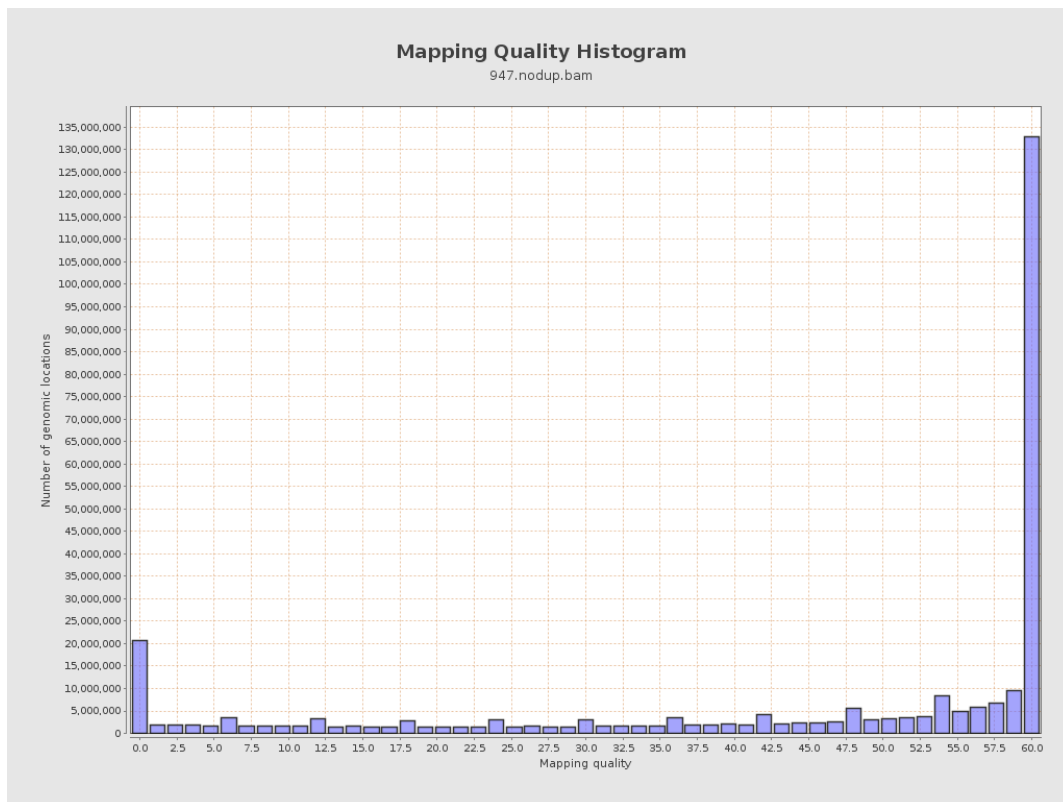
11. Results : Homopolymer Indels



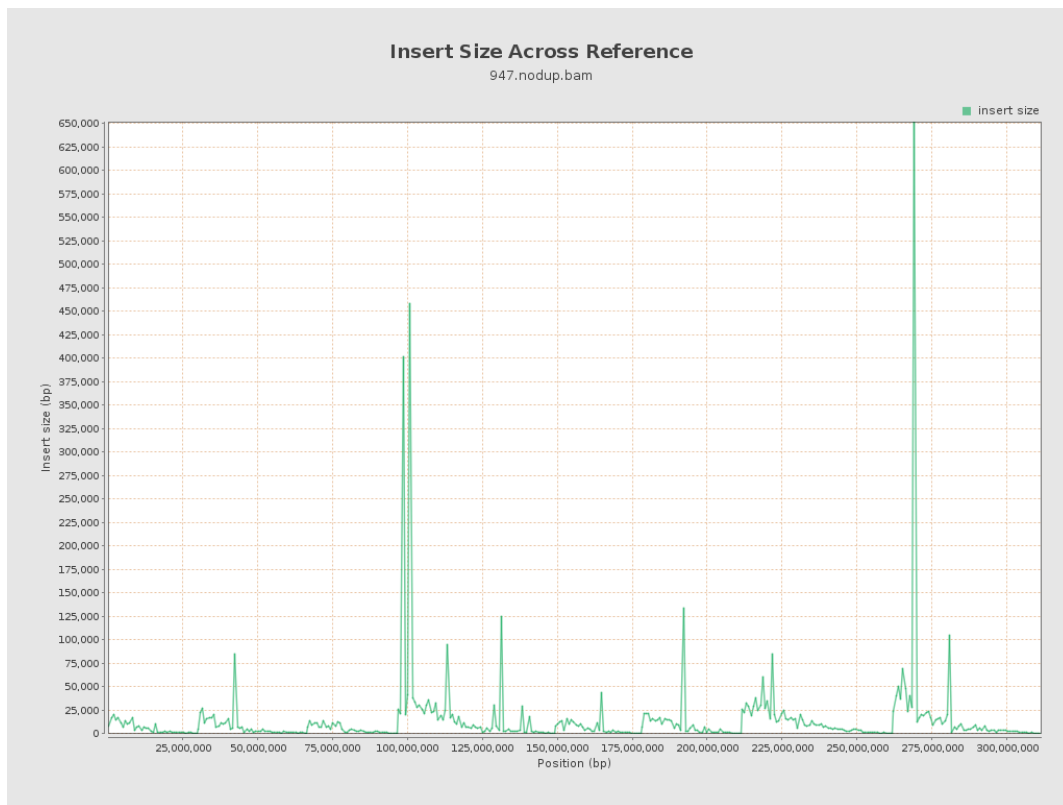
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

