

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:36:11

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/968
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/968 .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_108/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_108_S198_L002_R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/awdata/P26207/P26207_108/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_108_S198_L002_R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:36:11 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	82,012,290
Mapped reads	74,506,172 / 90.85%
Unmapped reads	7,506,118 / 9.15%
Mapped paired reads	74,506,172 / 90.85%
Mapped reads, first in pair	37,323,409 / 45.51%
Mapped reads, second in pair	37,182,763 / 45.34%
Mapped reads, both in pair	72,076,776 / 87.89%
Mapped reads, singletons	2,429,396 / 2.96%
Read min/max/mean length	30 / 151 / 148.14
Duplicated reads (flagged)	14,727,121 / 17.96%
Clipped reads	17,387,001 / 21.2%

2.2. ACGT Content

Number/percentage of A's	3,171,637,521 / 31.02%
Number/percentage of C's	1,938,707,936 / 18.96%
Number/percentage of T's	3,176,938,182 / 31.08%
Number/percentage of G's	1,935,622,018 / 18.93%
Number/percentage of N's	42,690 / 0%
GC Percentage	37.9%

2.3. Coverage

Mean	32.8882
Standard Deviation	305.0447

2.4. Mapping Quality

Mean Mapping Quality	44.77
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2.5. Insert size

Mean	258,462.59
Standard Deviation	2,468,982.59
P25/Median/P75	319 / 419 / 553

2.6. Mismatches and indels

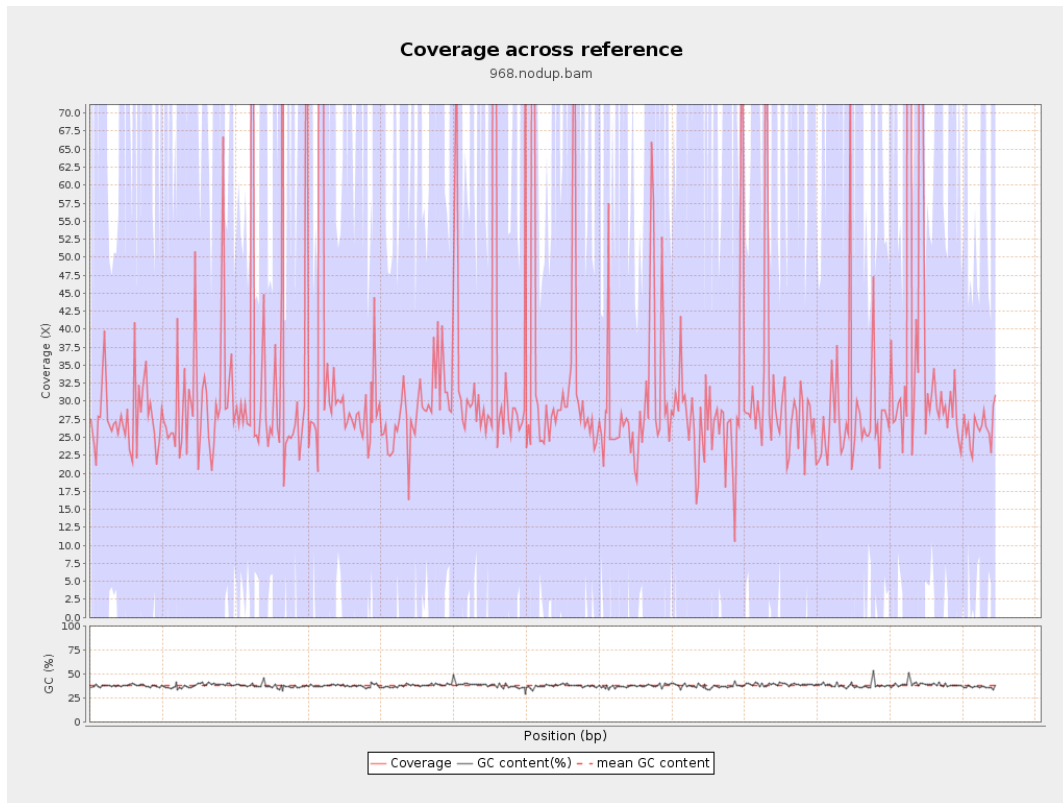
General error rate	2.31%
Mismatches	215,089,914
Insertions	7,511,484
Mapped reads with at least one insertion	8.96%
Deletions	7,091,985
Mapped reads with at least one deletion	8.42%
Homopolymer indels	57.69%

2.7. Chromosome stats

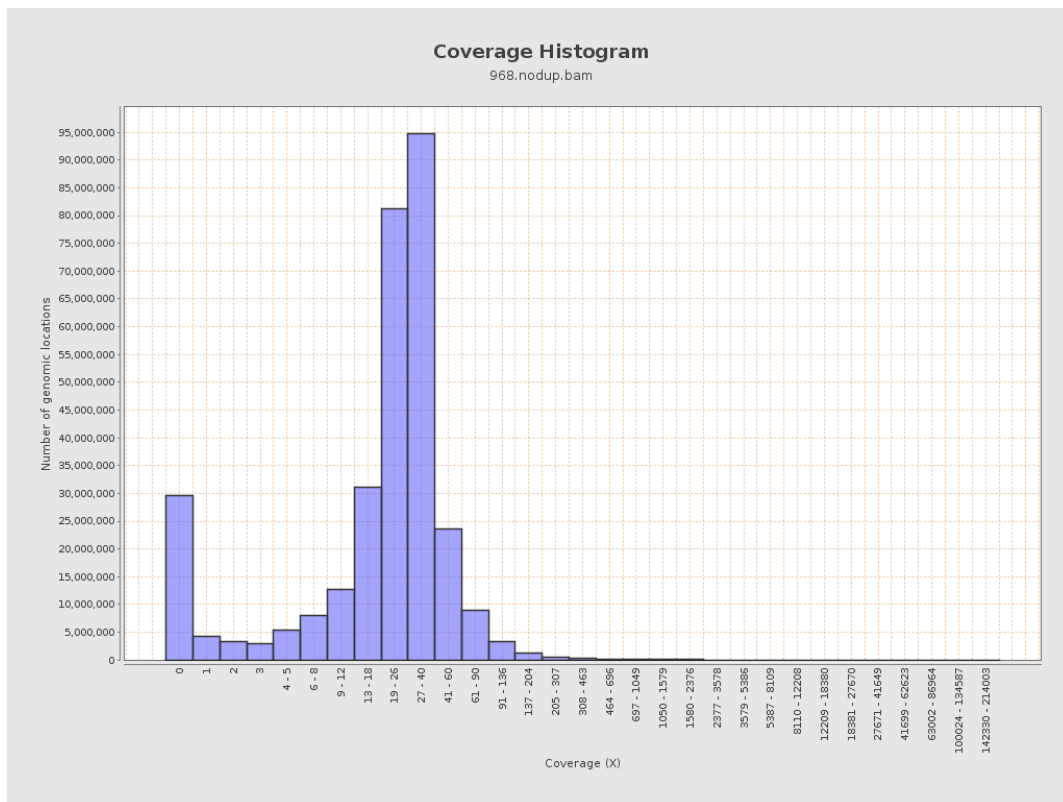
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	818139659	27.5242	137.6756

LT669789.1	36598175	1211775241	33.1103	334.5033
LT669790.1	30422129	1244632671	40.9121	458.5081
LT669791.1	52758100	1714976062	32.5064	344.1801
LT669792.1	28376109	944131327	33.2721	294.3738
LT669793.1	33388210	978991479	29.3215	161.8341
LT669794.1	50579949	1515625995	29.965	233.0729
LT669795.1	49795044	1821058704	36.5711	335.6448

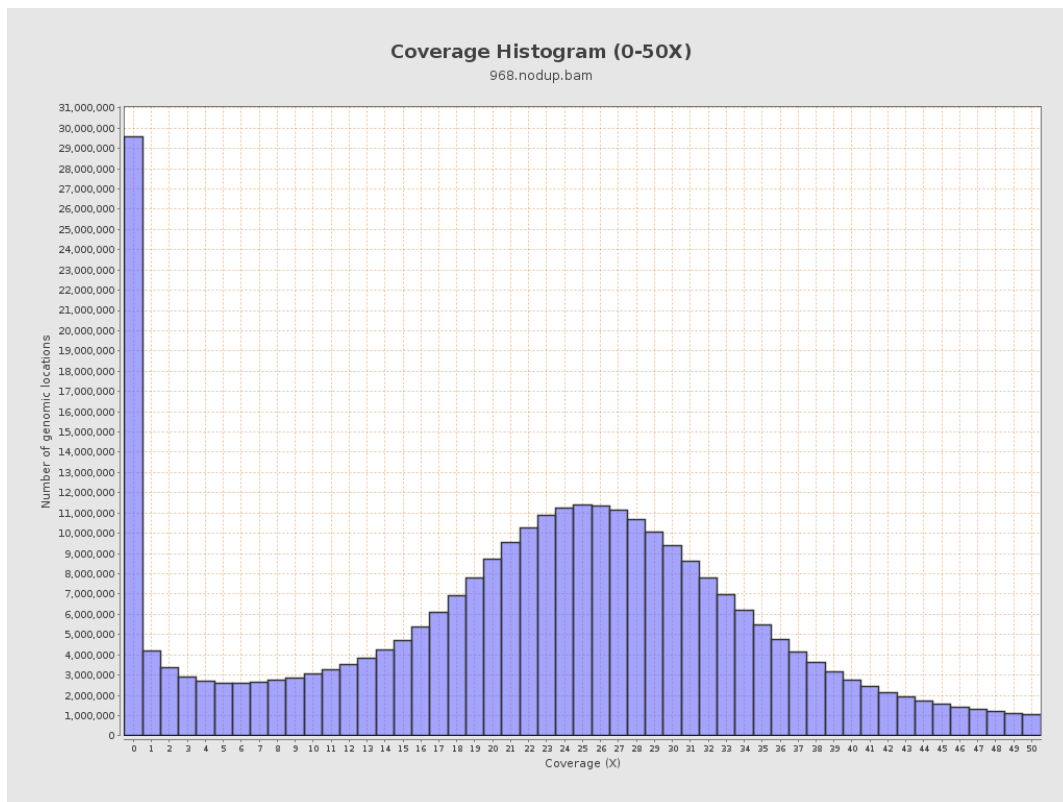
3. Results : Coverage across reference



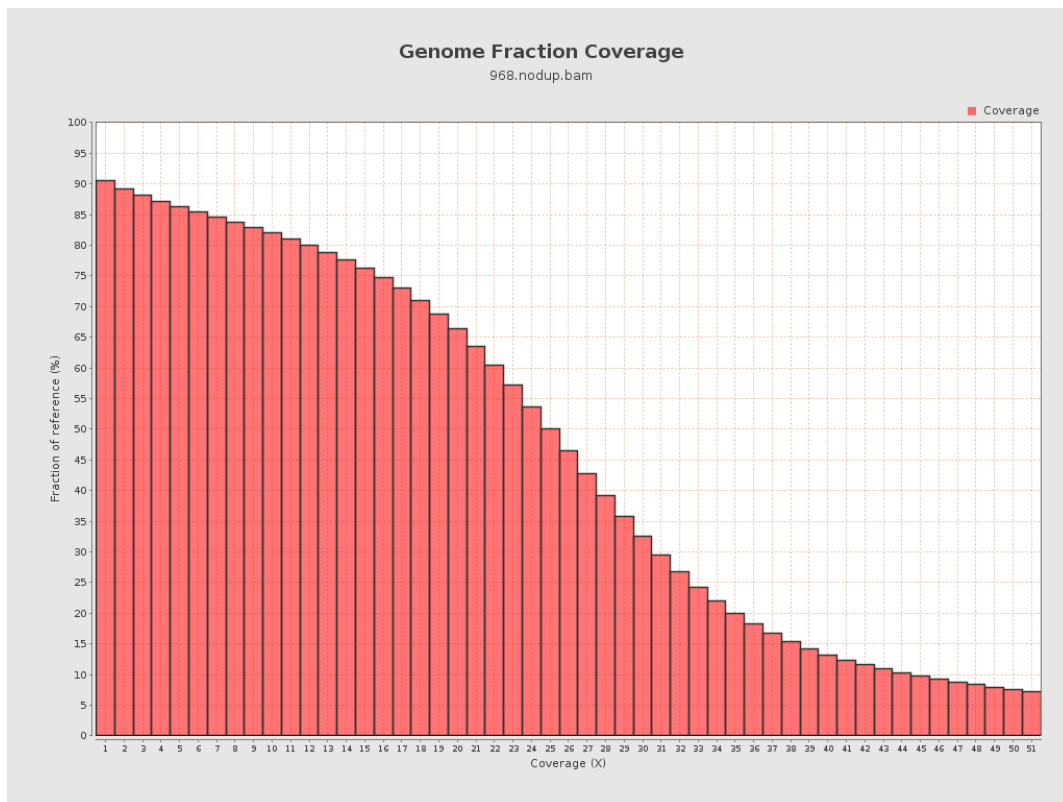
4. Results : Coverage Histogram



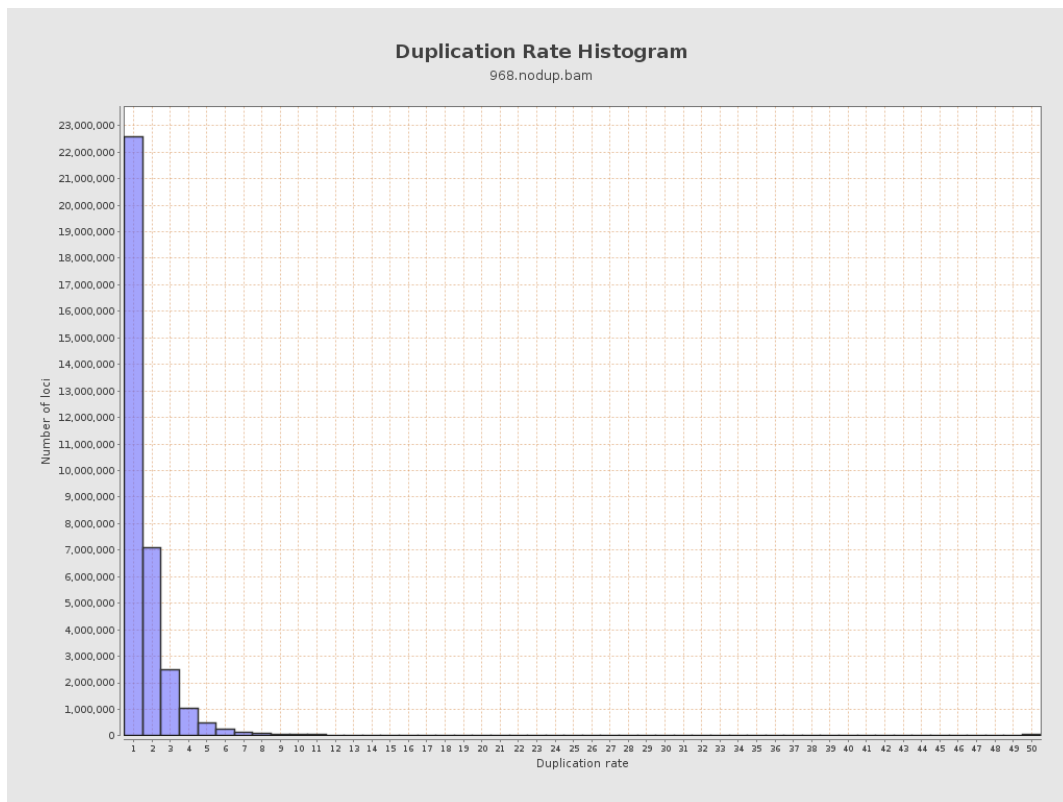
5. Results : Coverage Histogram (0-50X)



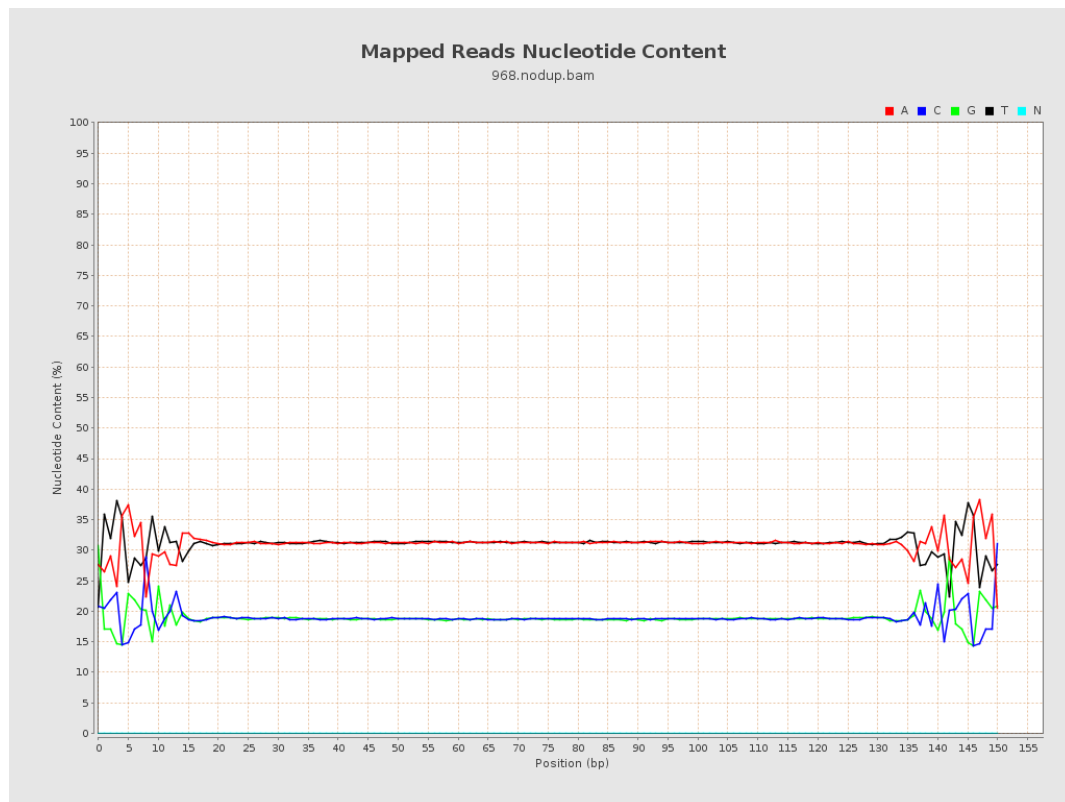
6. Results : Genome Fraction Coverage



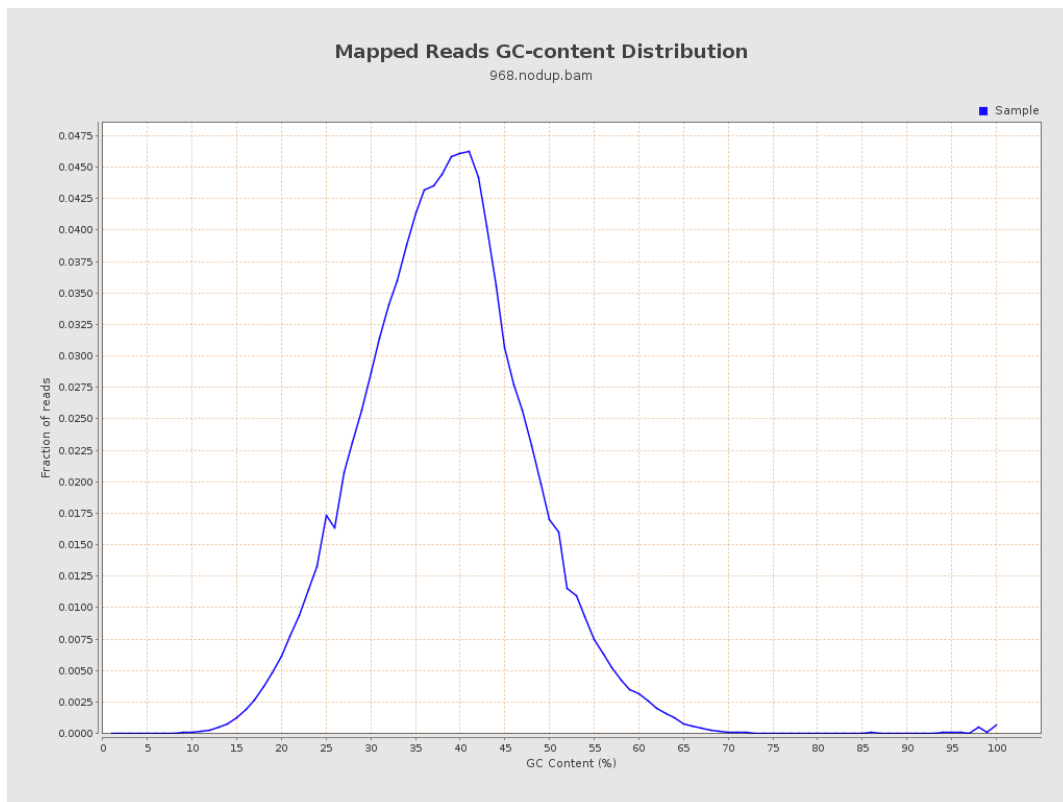
7. Results : Duplication Rate Histogram



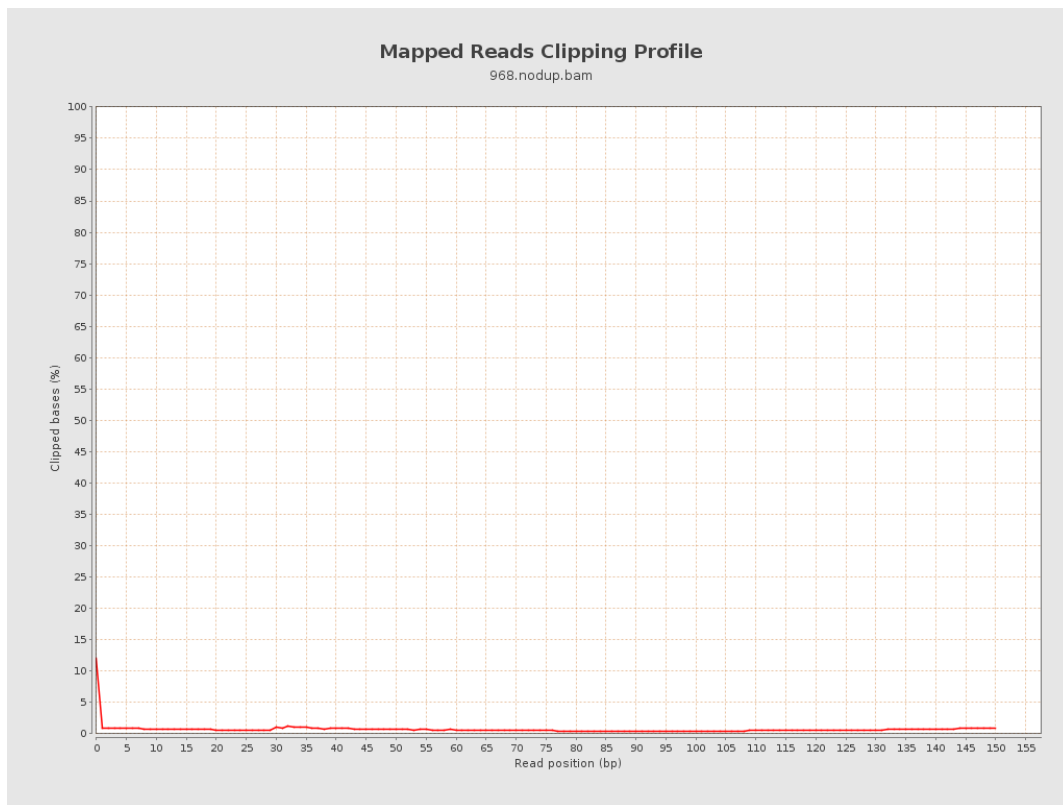
8. Results : Mapped Reads Nucleotide Content



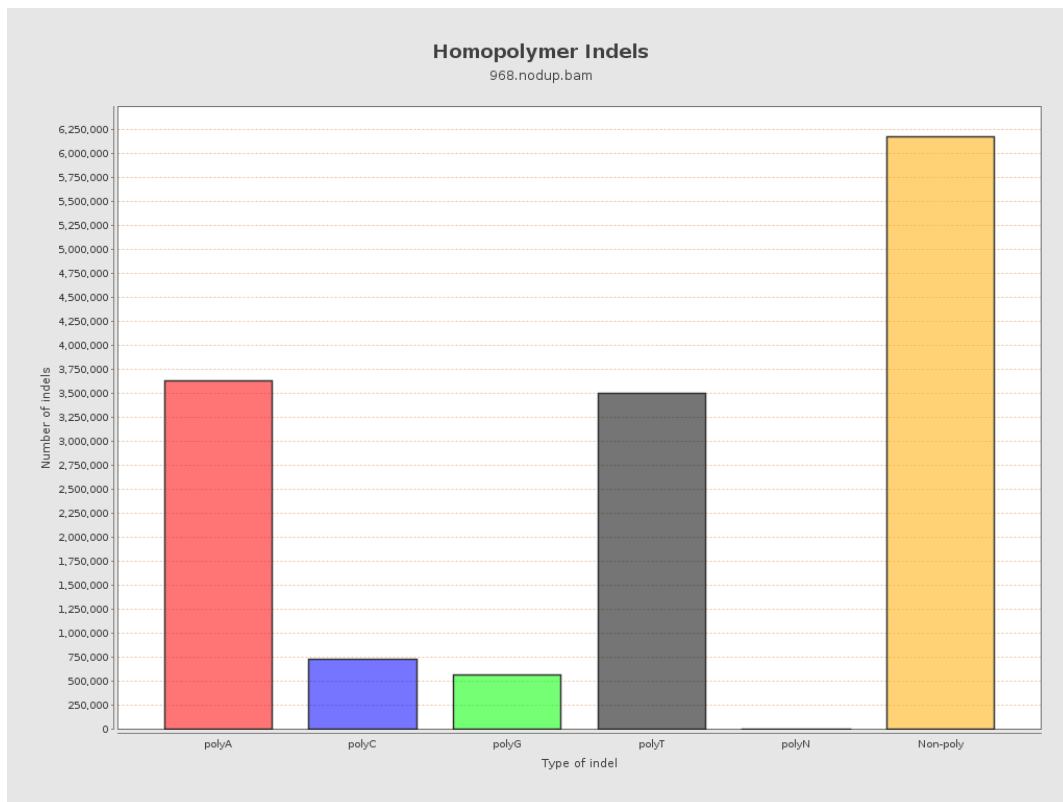
9. Results : Mapped Reads GC-content Distribution



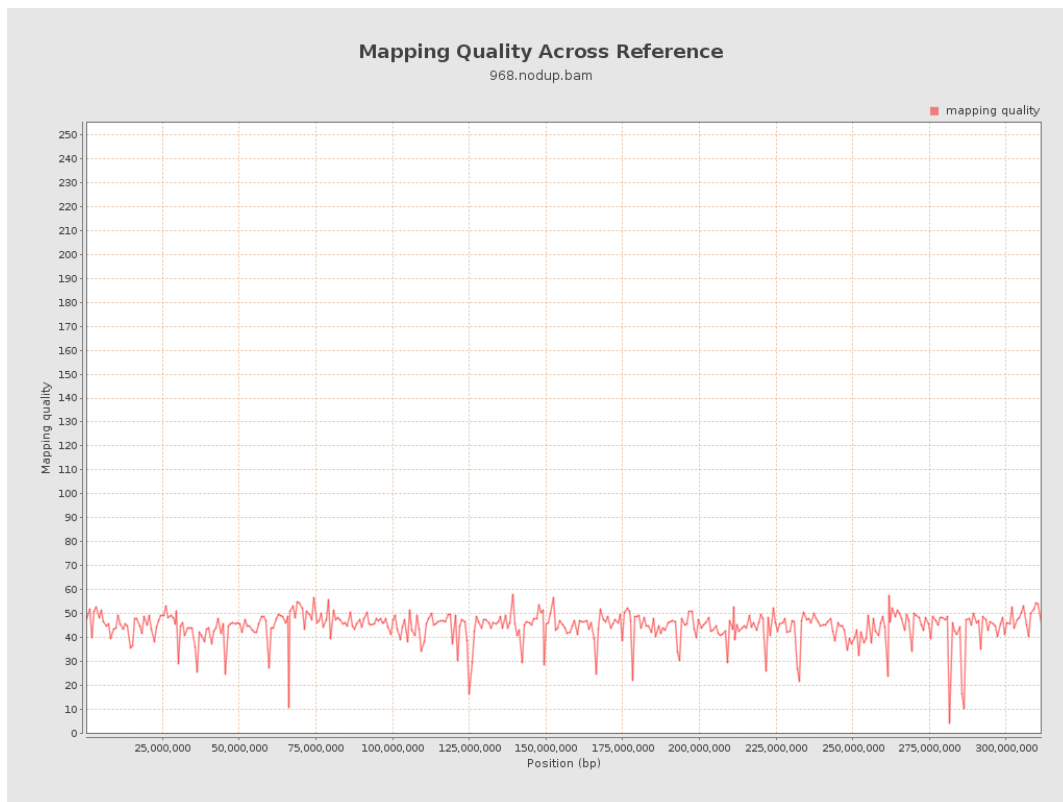
10. Results : Mapped Reads Clipping Profile



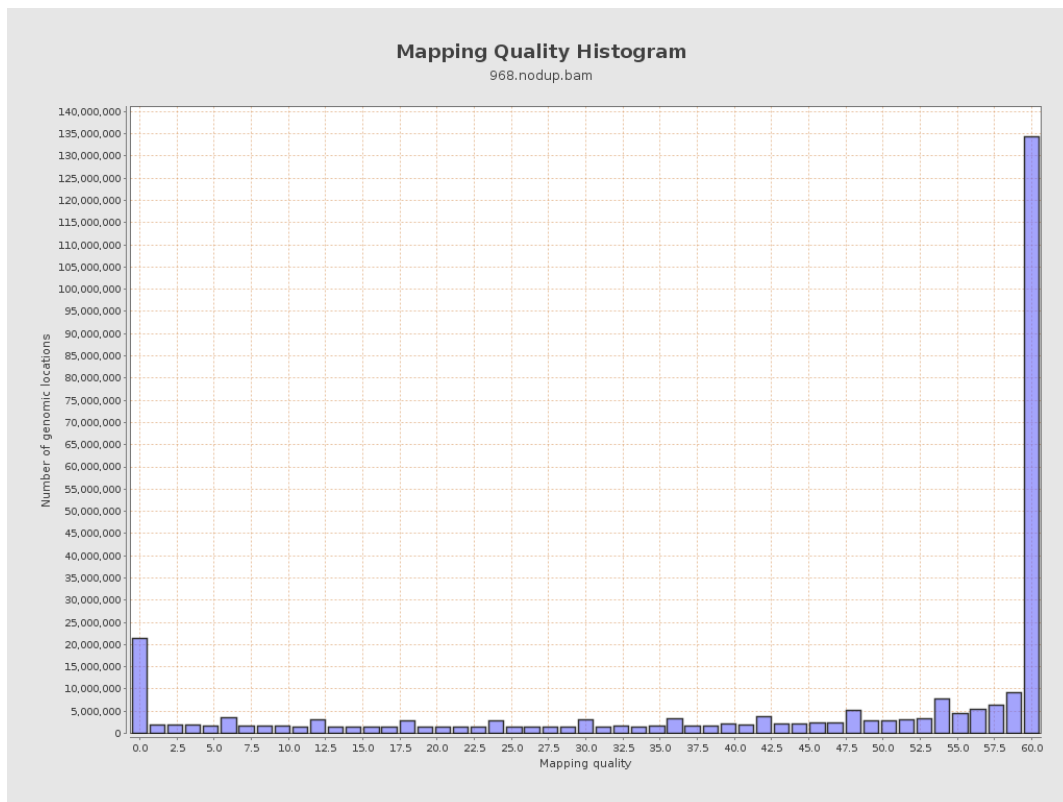
11. Results : Homopolymer Indels



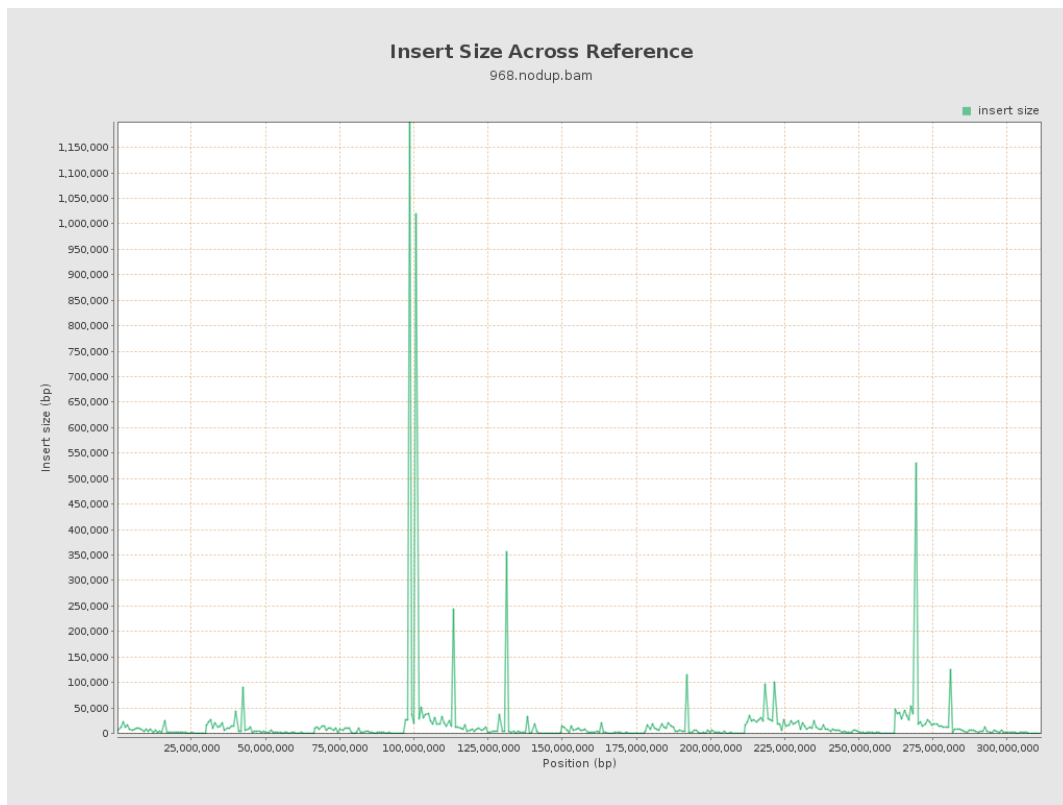
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

