

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:26:01

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/938
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/938 .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/rawdata/P26207/P26207_575/02-FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_575_S142_L004_R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/rawdata/P26207/P26207_575/02-FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_575_S142_L004_R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:26:00 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	50,142,289
Mapped reads	46,688,489 / 93.11%
Unmapped reads	3,453,800 / 6.89%
Mapped paired reads	46,688,489 / 93.11%
Mapped reads, first in pair	23,448,741 / 46.76%
Mapped reads, second in pair	23,239,748 / 46.35%
Mapped reads, both in pair	45,553,310 / 90.85%
Mapped reads, singletons	1,135,179 / 2.26%
Read min/max/mean length	30 / 151 / 148.17
Duplicated reads (flagged)	6,725,879 / 13.41%
Clipped reads	11,215,228 / 22.37%

2.2. ACGT Content

Number/percentage of A's	1,991,776,270 / 30.91%
Number/percentage of C's	1,229,870,016 / 19.09%
Number/percentage of T's	1,992,454,528 / 30.93%
Number/percentage of G's	1,228,715,057 / 19.07%
Number/percentage of N's	43,847 / 0%
GC Percentage	38.16%

2.3. Coverage

Mean	20.7269
Standard Deviation	166.6424

2.4. Mapping Quality

Mean Mapping Quality	44.03
----------------------	-------

2.5. Insert size

Mean	233,503.28
Standard Deviation	2,292,417.51
P25/Median/P75	337 / 440 / 565

2.6. Mismatches and indels

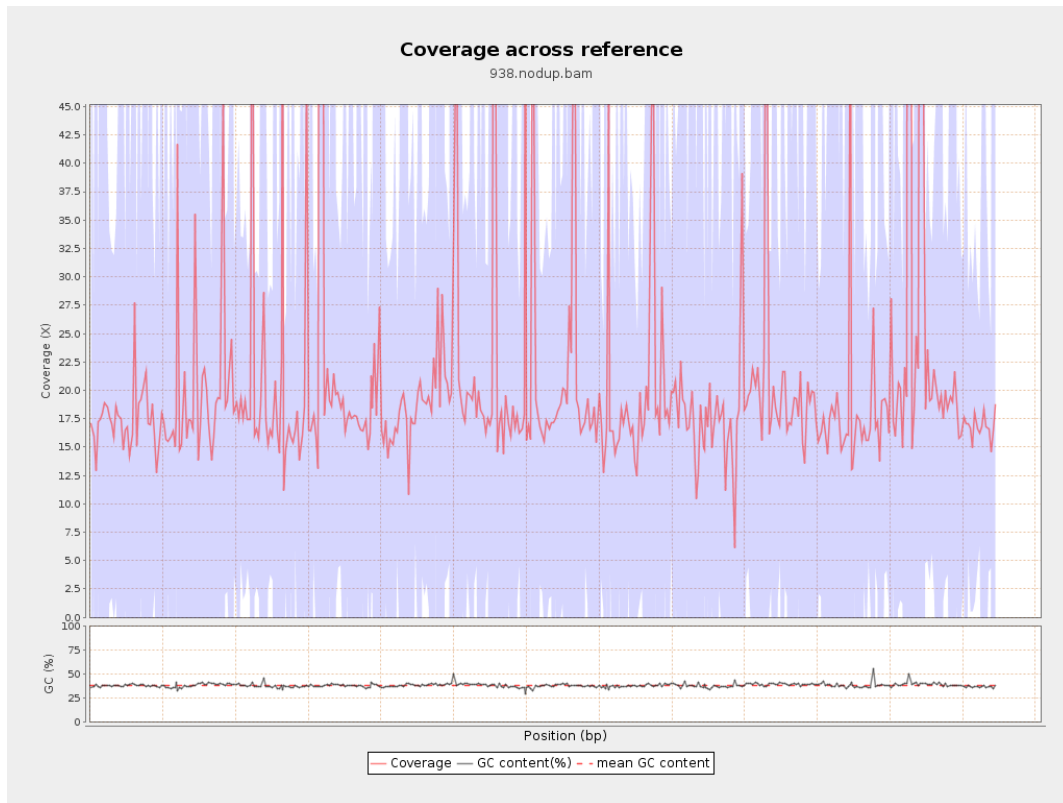
General error rate	2.62%
Mismatches	156,653,115
Insertions	4,385,539
Mapped reads with at least one insertion	8.44%
Deletions	4,405,055
Mapped reads with at least one deletion	8.39%
Homopolymer indels	55.91%

2.7. Chromosome stats

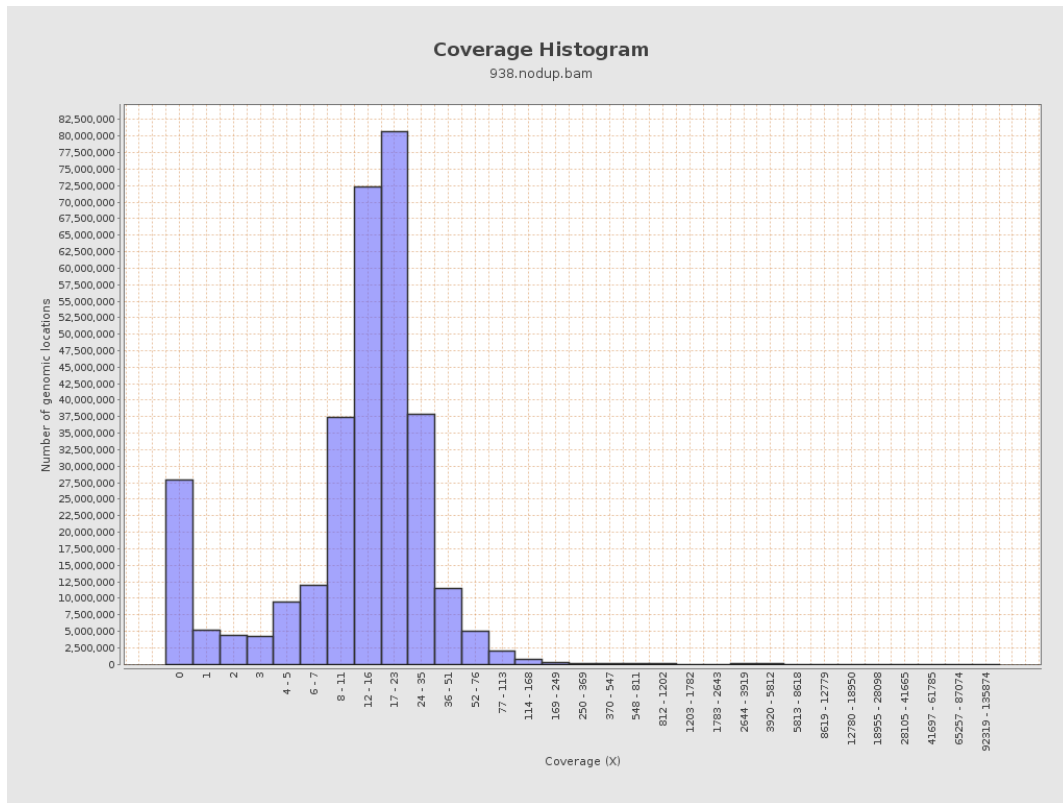
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	510741680	17.1826	52.7597

LT669789.1	36598175	762419246	20.8322	164.171
LT669790.1	30422129	696140615	22.8827	181.3564
LT669791.1	52758100	1071360702	20.307	153.2227
LT669792.1	28376109	586795950	20.6792	194.0642
LT669793.1	33388210	641346624	19.2088	116.7274
LT669794.1	50579949	983093093	19.4364	138.0756
LT669795.1	49795044	1207468153	24.2488	239.5173

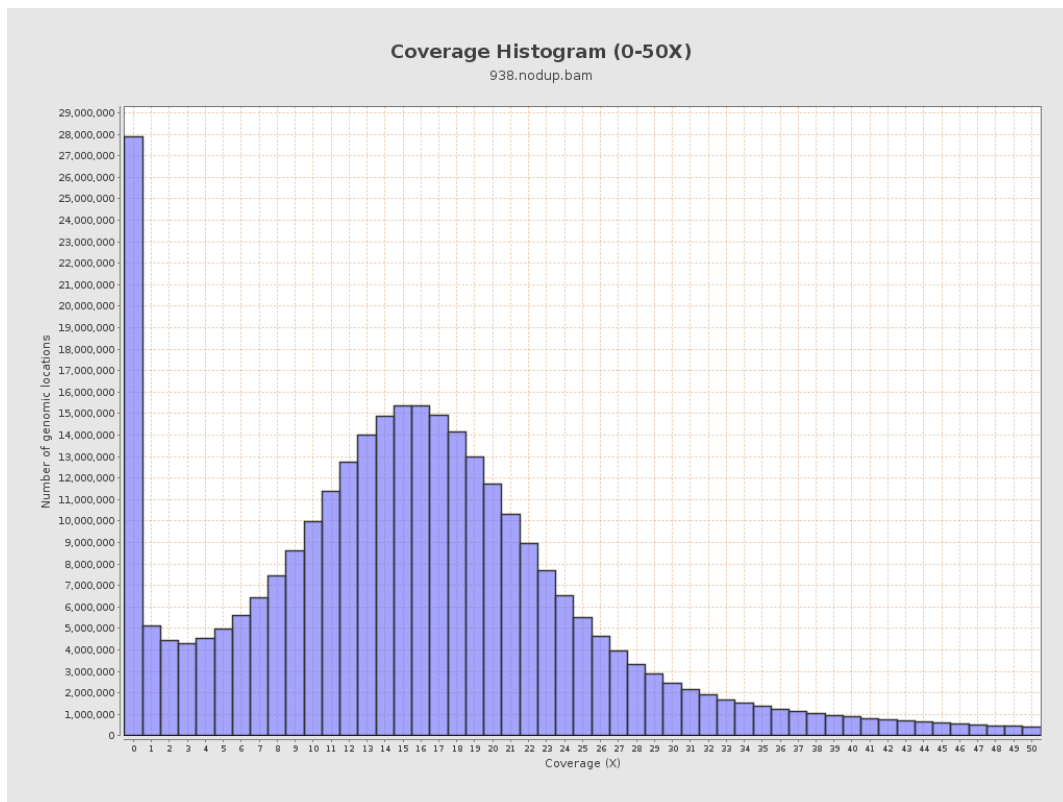
3. Results : Coverage across reference



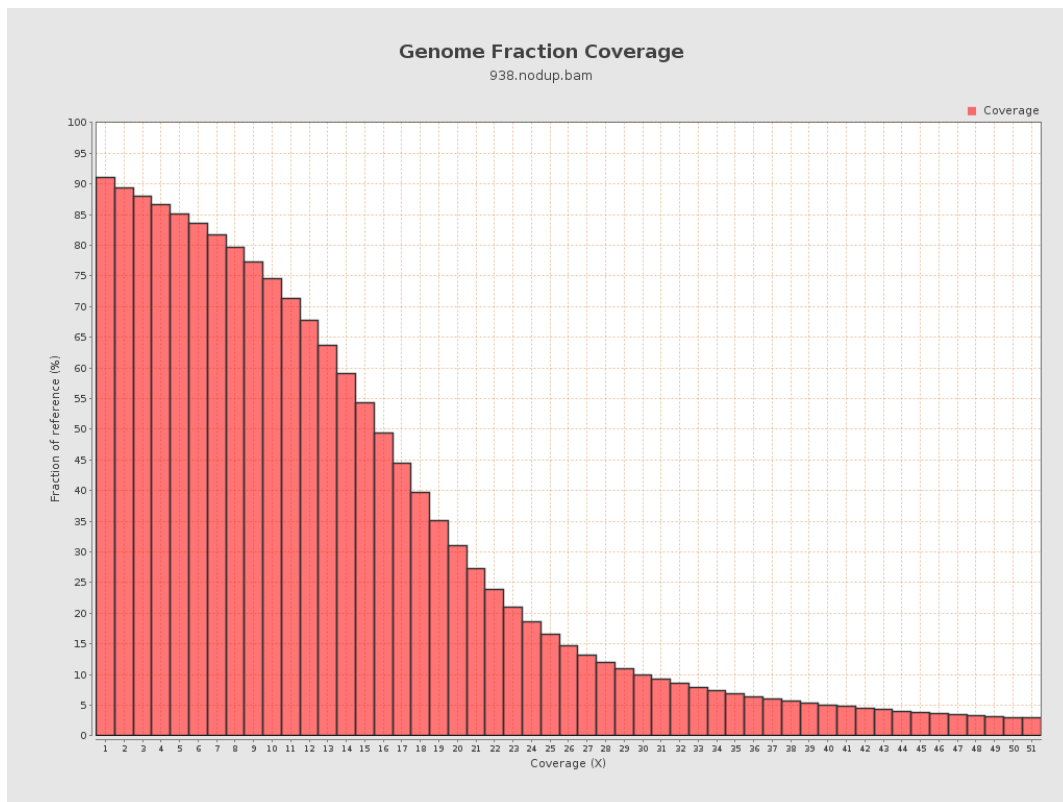
4. Results : Coverage Histogram



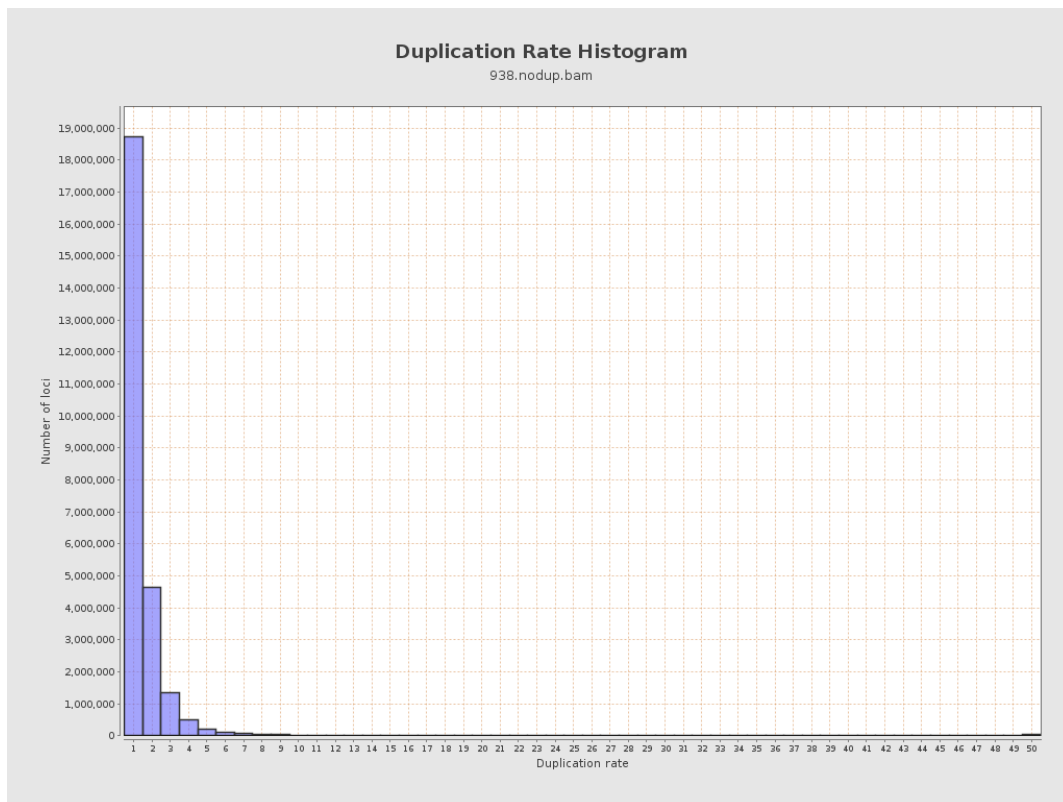
5. Results : Coverage Histogram (0-50X)



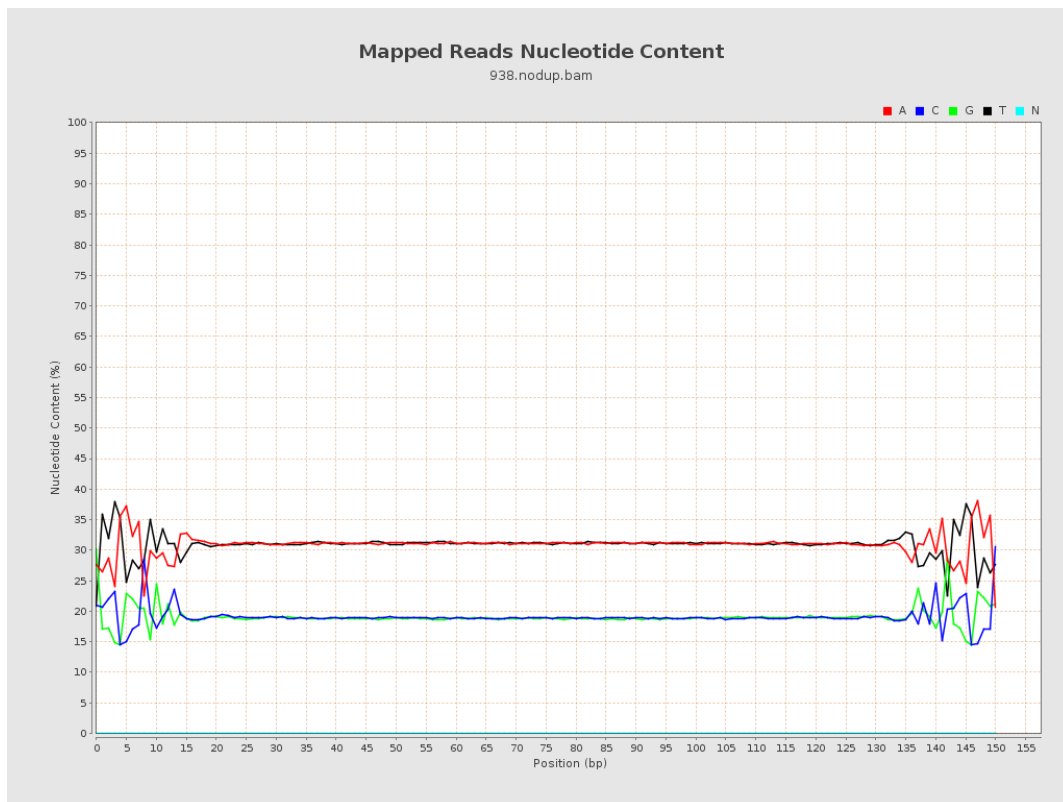
6. Results : Genome Fraction Coverage



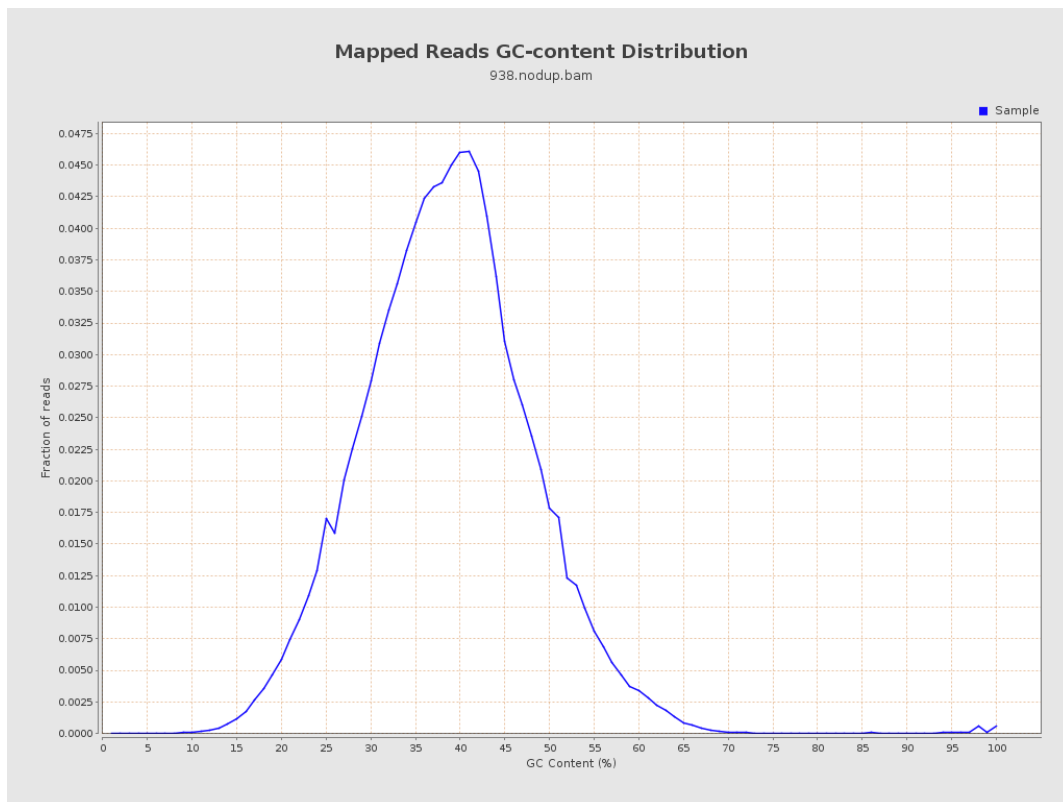
7. Results : Duplication Rate Histogram



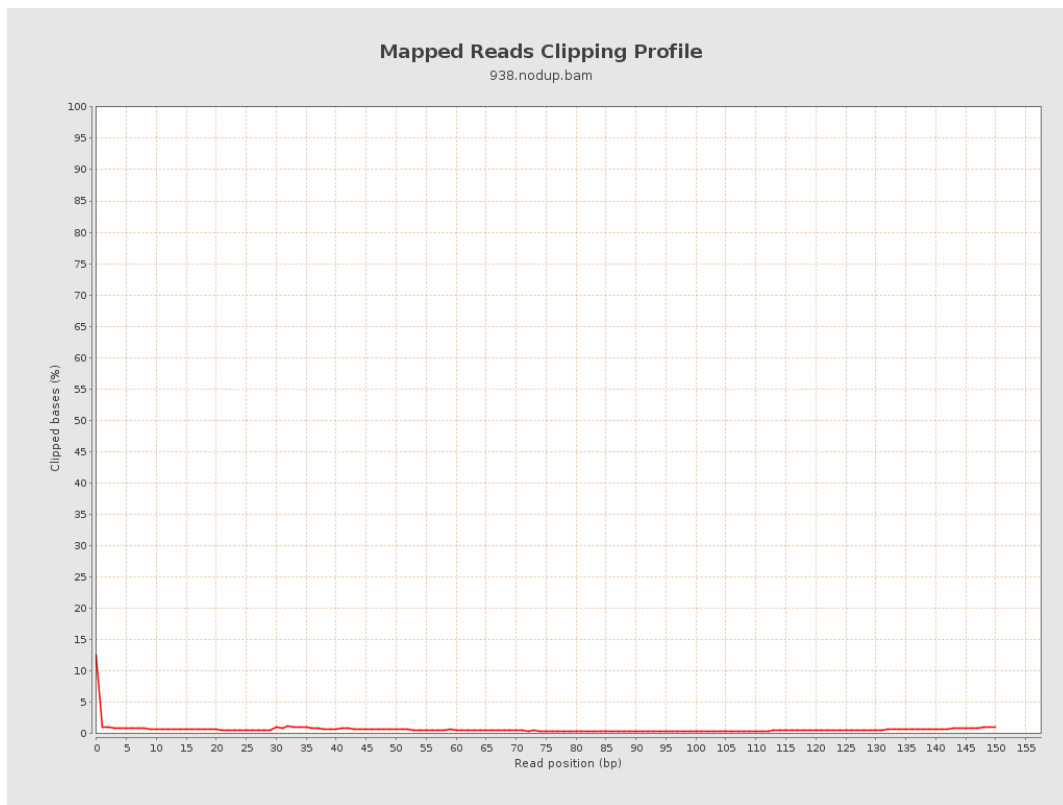
8. Results : Mapped Reads Nucleotide Content



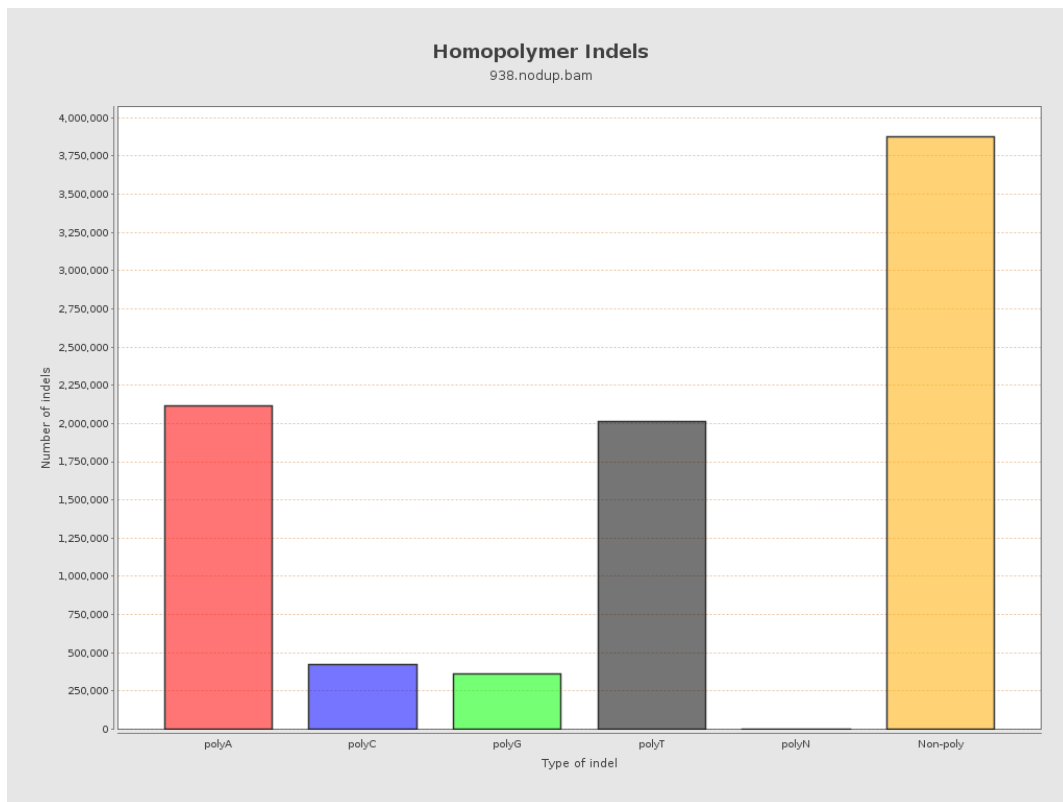
9. Results : Mapped Reads GC-content Distribution



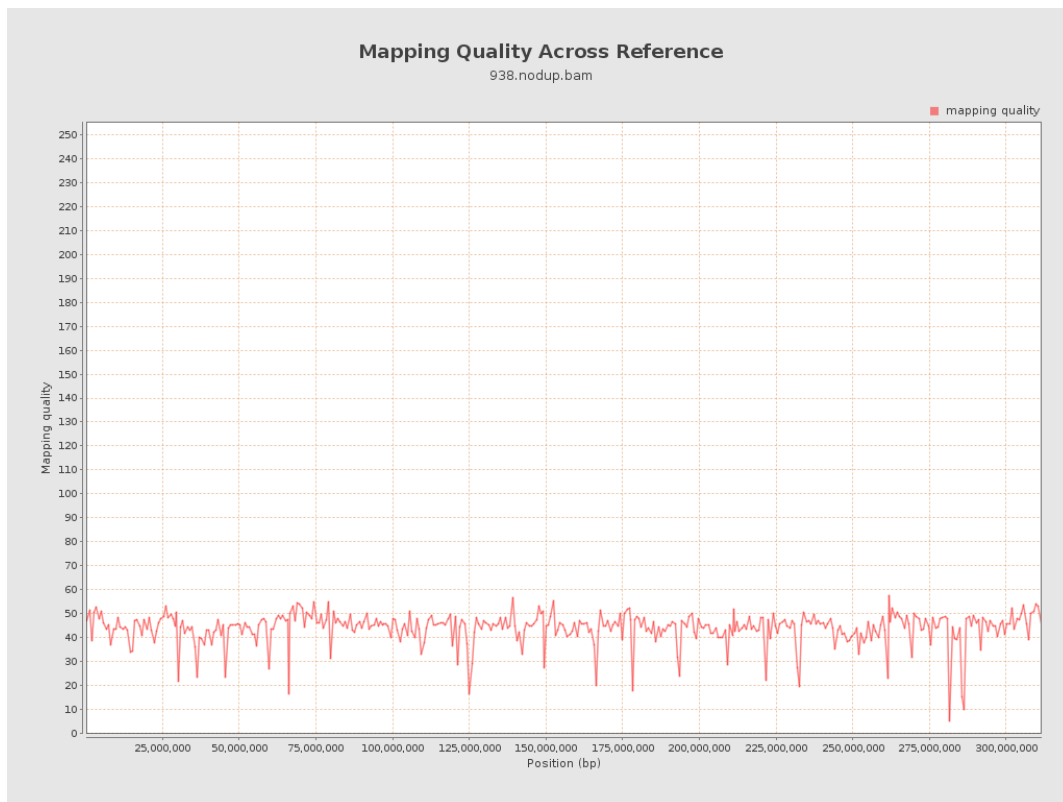
10. Results : Mapped Reads Clipping Profile



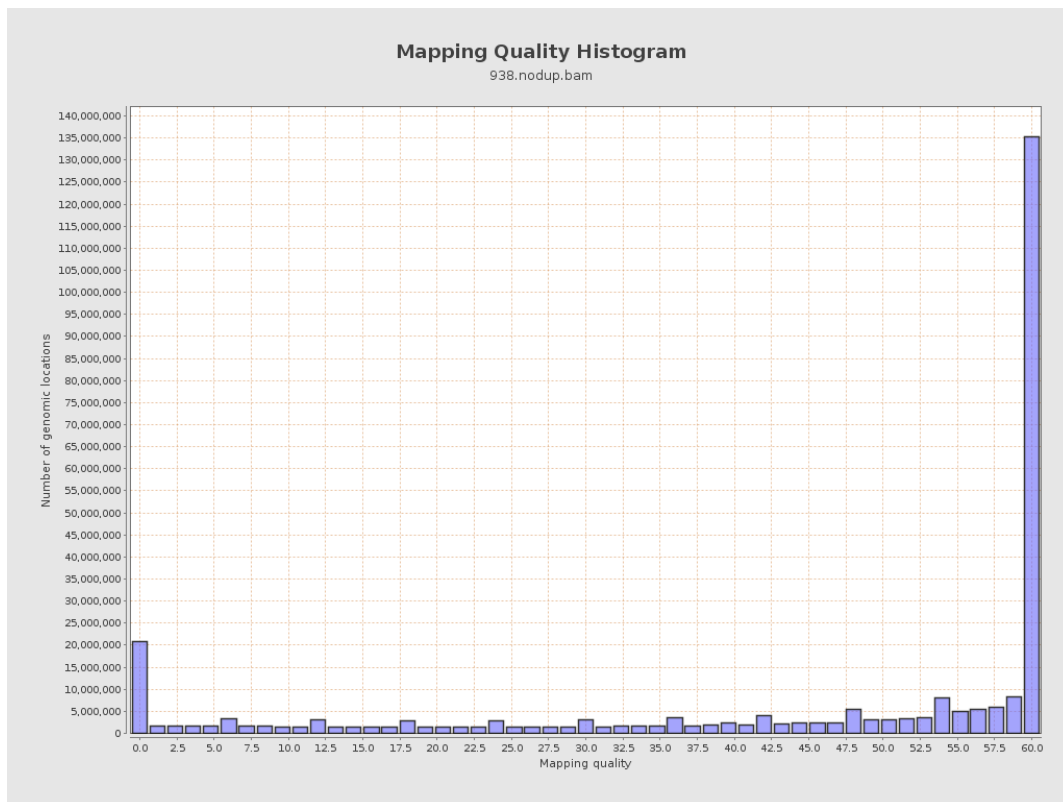
11. Results : Homopolymer Indels



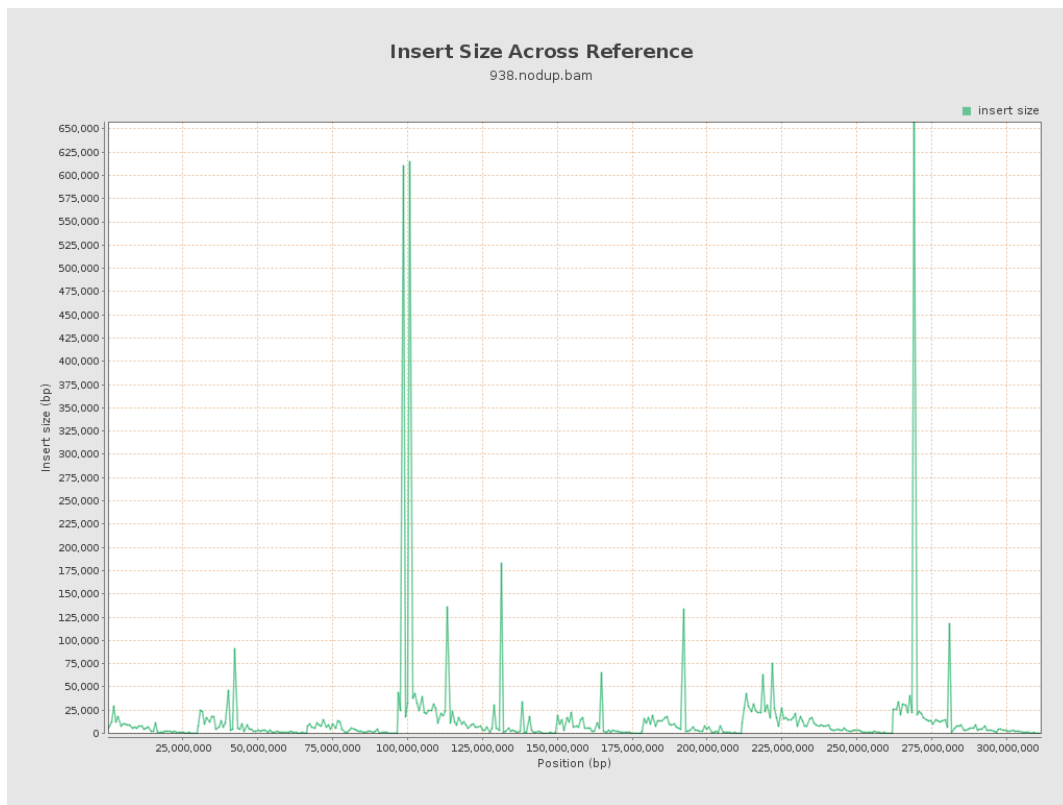
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

