

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:28:53

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/830
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/830.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_219/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_219_S300_L003_R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/awdata/P26207/P26207_219/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_219_S300_L003_R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:28:52 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	57,953,794
Mapped reads	54,473,918 / 94%
Unmapped reads	3,479,876 / 6%
Mapped paired reads	54,473,918 / 94%
Mapped reads, first in pair	27,312,128 / 47.13%
Mapped reads, second in pair	27,161,790 / 46.87%
Mapped reads, both in pair	53,289,247 / 91.95%
Mapped reads, singletons	1,184,671 / 2.04%
Read min/max/mean length	30 / 151 / 147.95
Duplicated reads (flagged)	7,907,513 / 13.64%
Clipped reads	12,928,349 / 22.31%

2.2. ACGT Content

Number/percentage of A's	2,303,357,739 / 30.69%
Number/percentage of C's	1,448,127,377 / 19.29%
Number/percentage of T's	2,309,448,468 / 30.77%
Number/percentage of G's	1,444,686,728 / 19.25%
Number/percentage of N's	27,765 / 0%
GC Percentage	38.54%

2.3. Coverage

Mean	24.1475
Standard Deviation	218.2032

2.4. Mapping Quality

Mean Mapping Quality	43.71
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2.5. Insert size

Mean	236,298.18
Standard Deviation	2,299,406.67
P25/Median/P75	327 / 432 / 563

2.6. Mismatches and indels

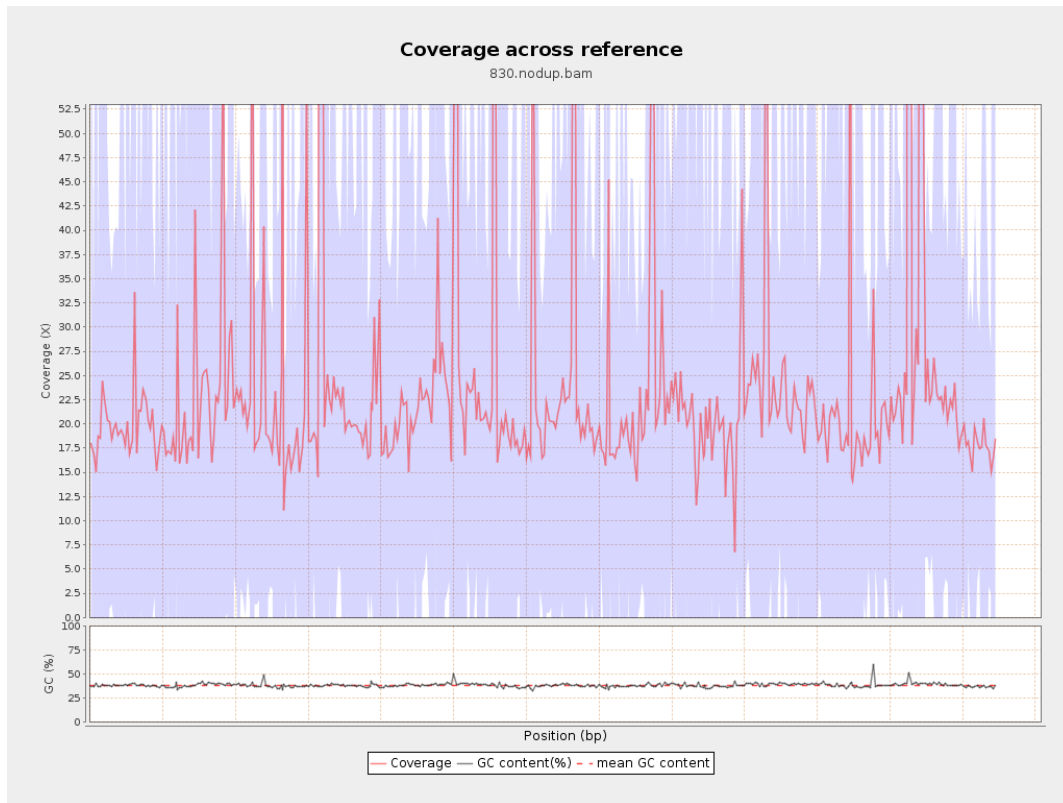
General error rate	2.39%
Mismatches	165,120,908
Insertions	5,135,716
Mapped reads with at least one insertion	8.46%
Deletions	5,212,684
Mapped reads with at least one deletion	8.47%
Homopolymer indels	55.75%

2.7. Chromosome stats

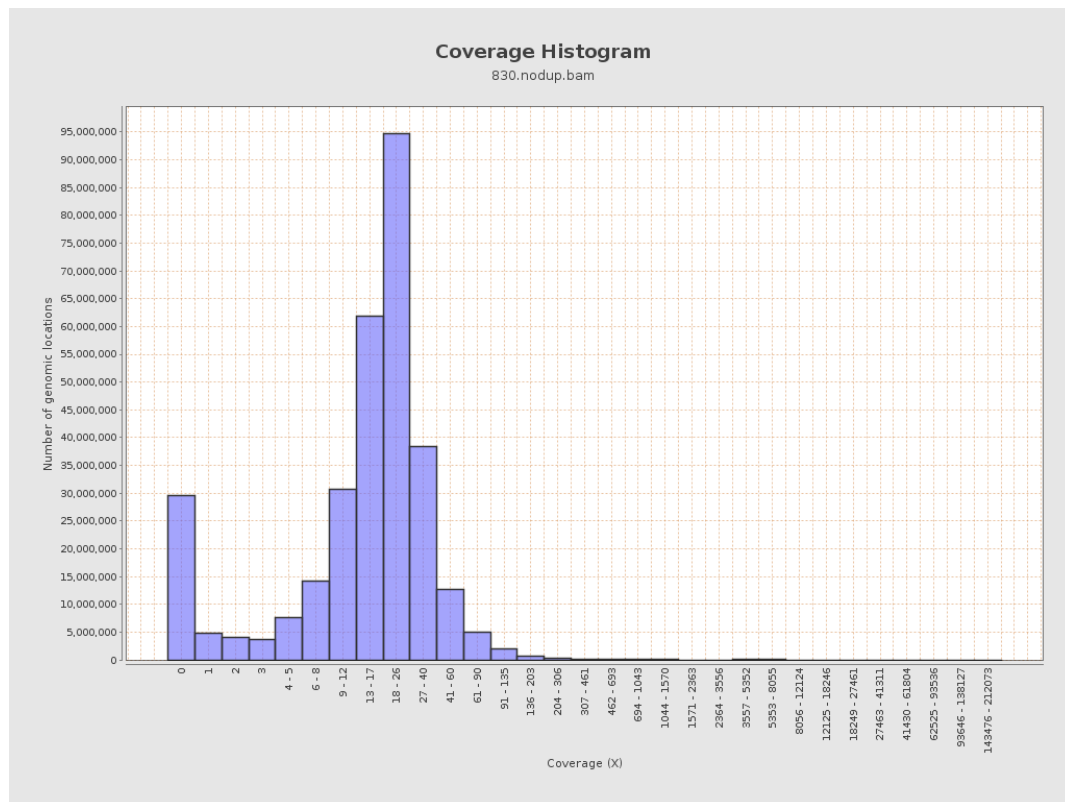
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	577971247	19.4444	75.175

LT669789.1	36598175	882855380	24.1229	223.8051
LT669790.1	30422129	780844140	25.667	204.0964
LT669791.1	52758100	1262875060	23.9371	205.3391
LT669792.1	28376109	669828016	23.6054	243.2762
LT669793.1	33388210	754560255	22.5996	144.786
LT669794.1	50579949	1167483634	23.0819	190.1364
LT669795.1	49795044	1428956903	28.6968	321.1411

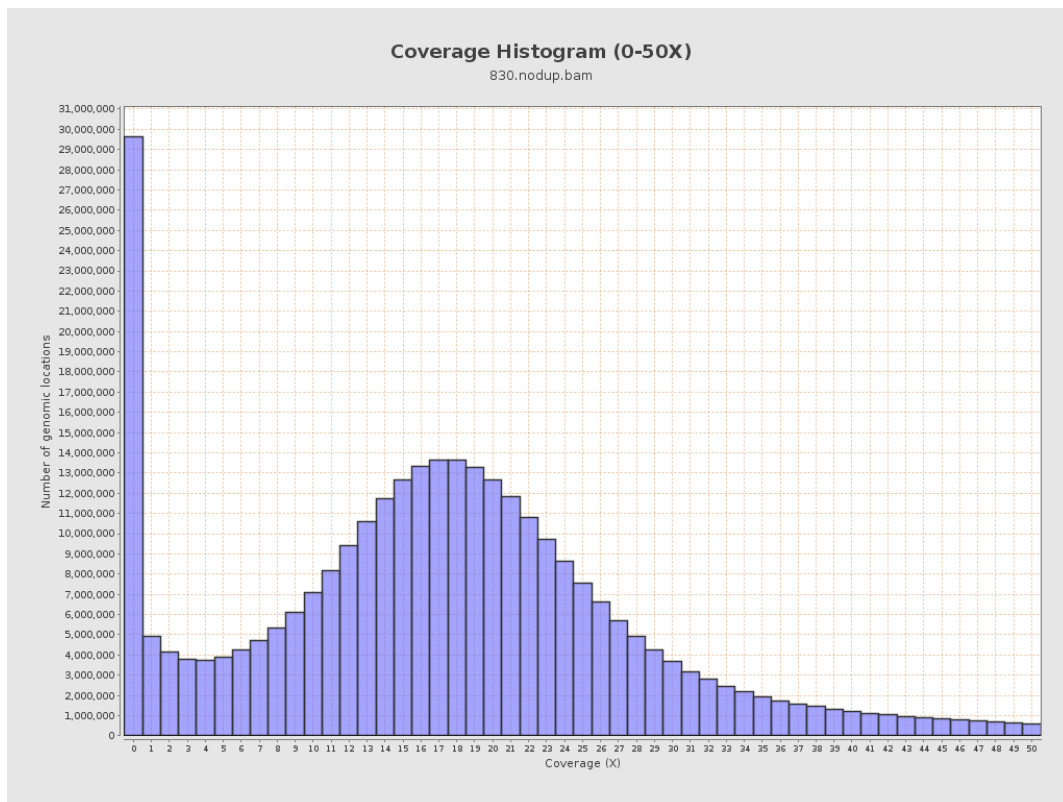
3. Results : Coverage across reference



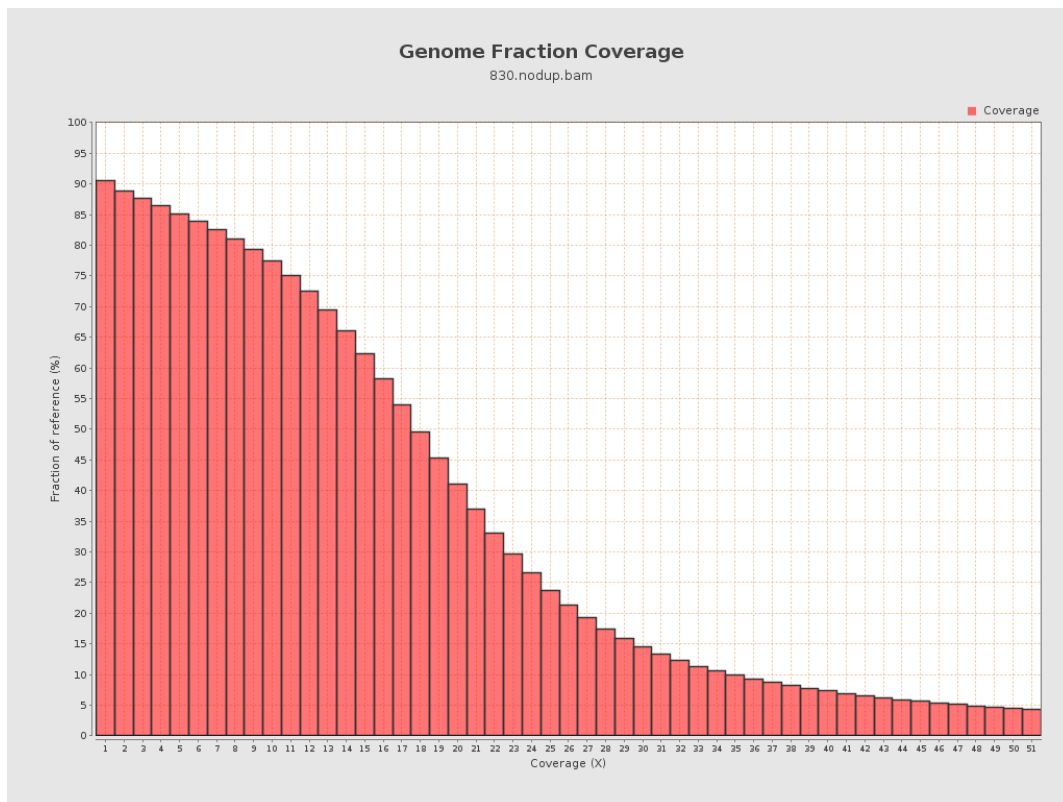
4. Results : Coverage Histogram



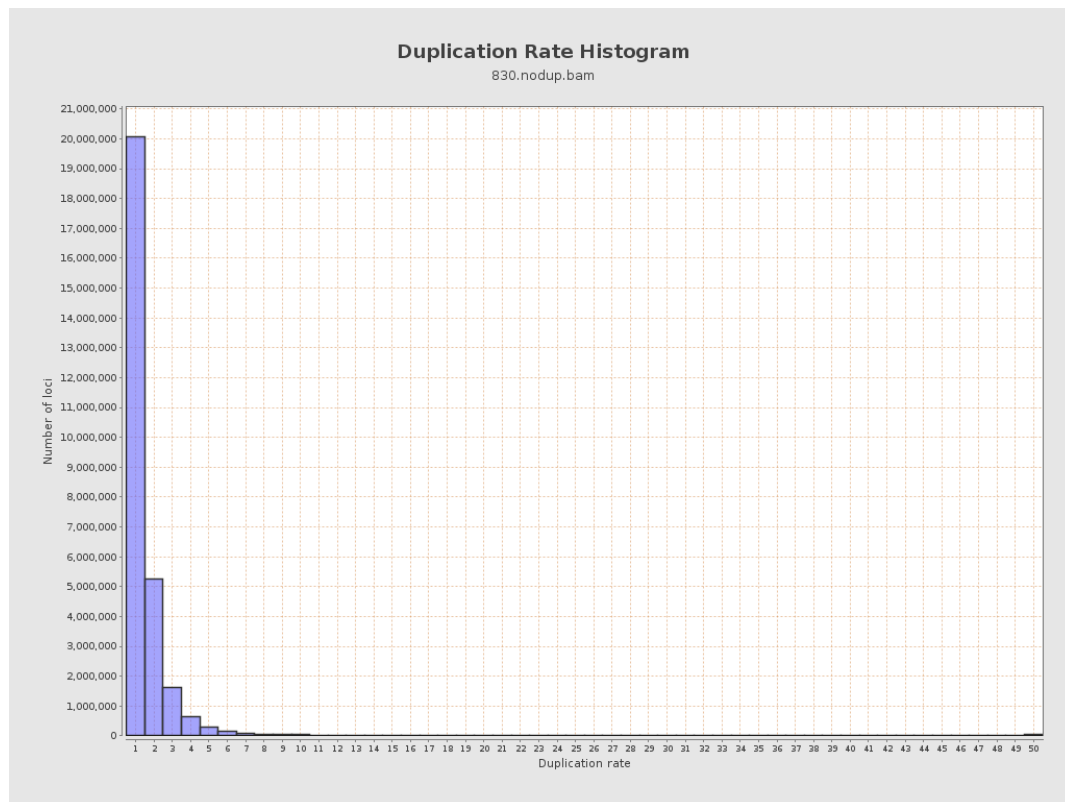
5. Results : Coverage Histogram (0-50X)



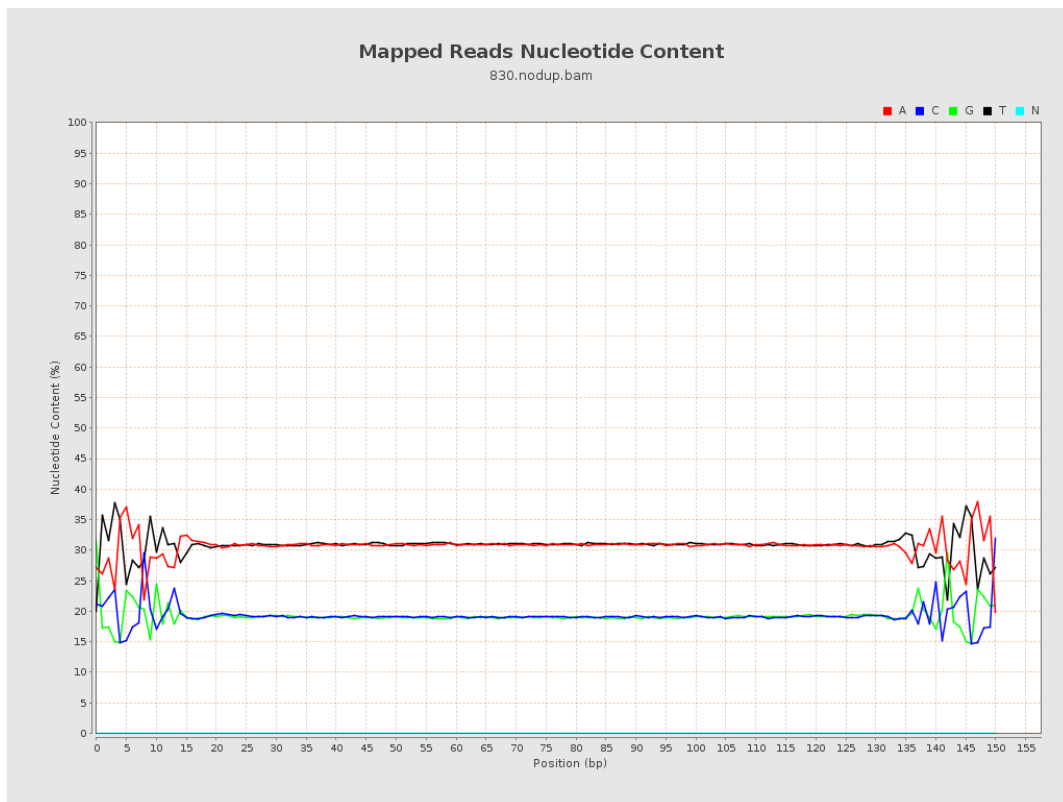
6. Results : Genome Fraction Coverage



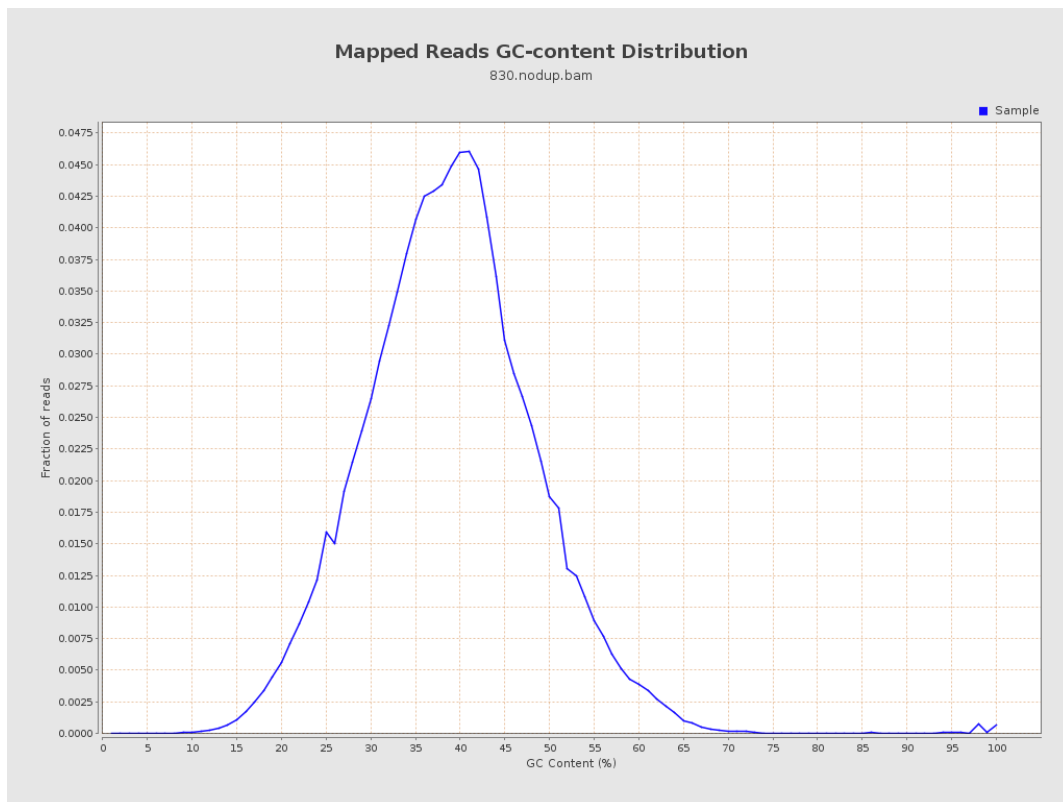
7. Results : Duplication Rate Histogram



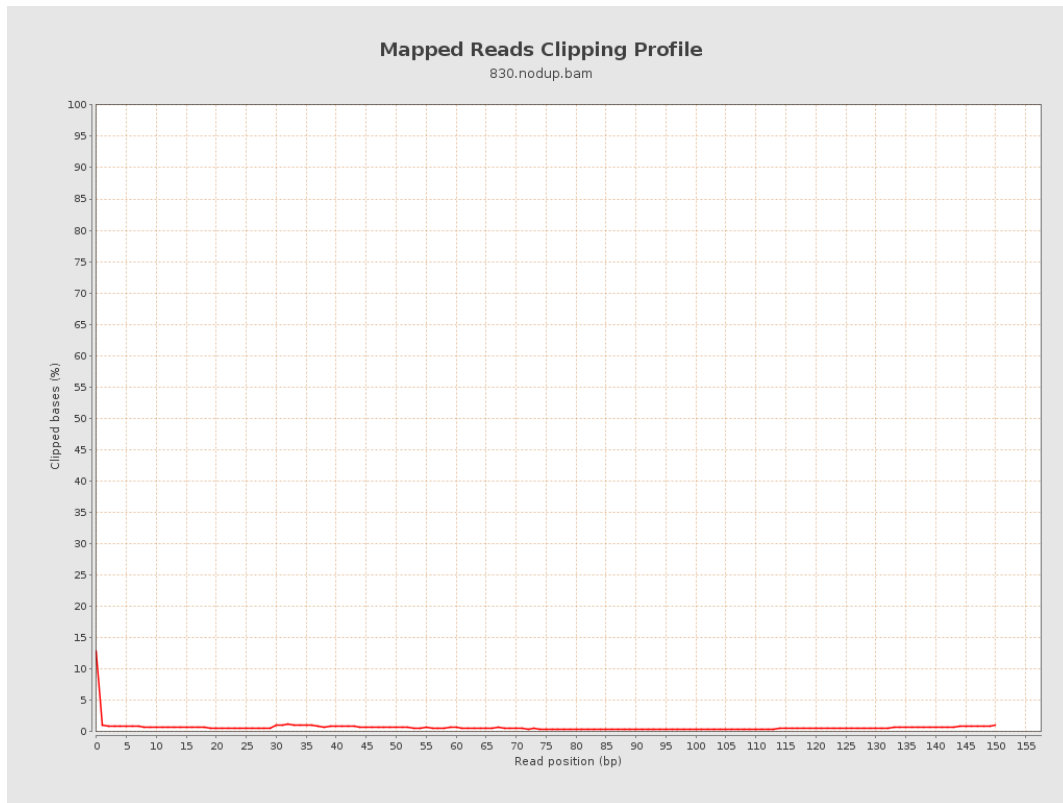
8. Results : Mapped Reads Nucleotide Content



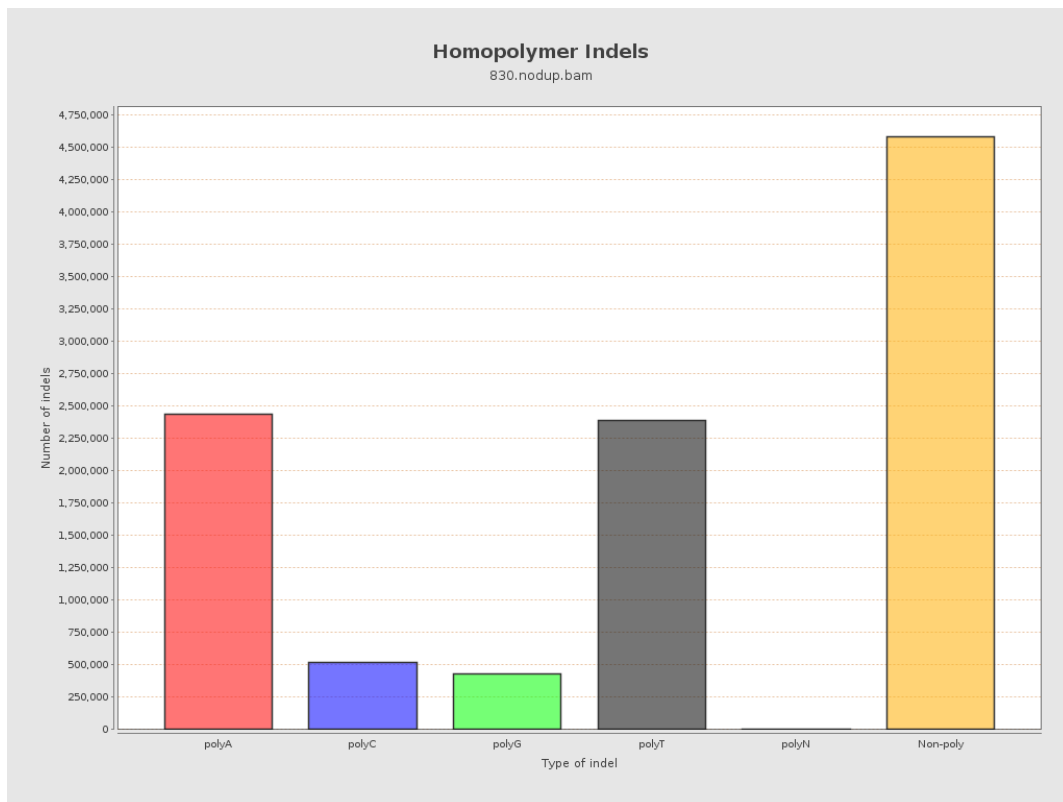
9. Results : Mapped Reads GC-content Distribution



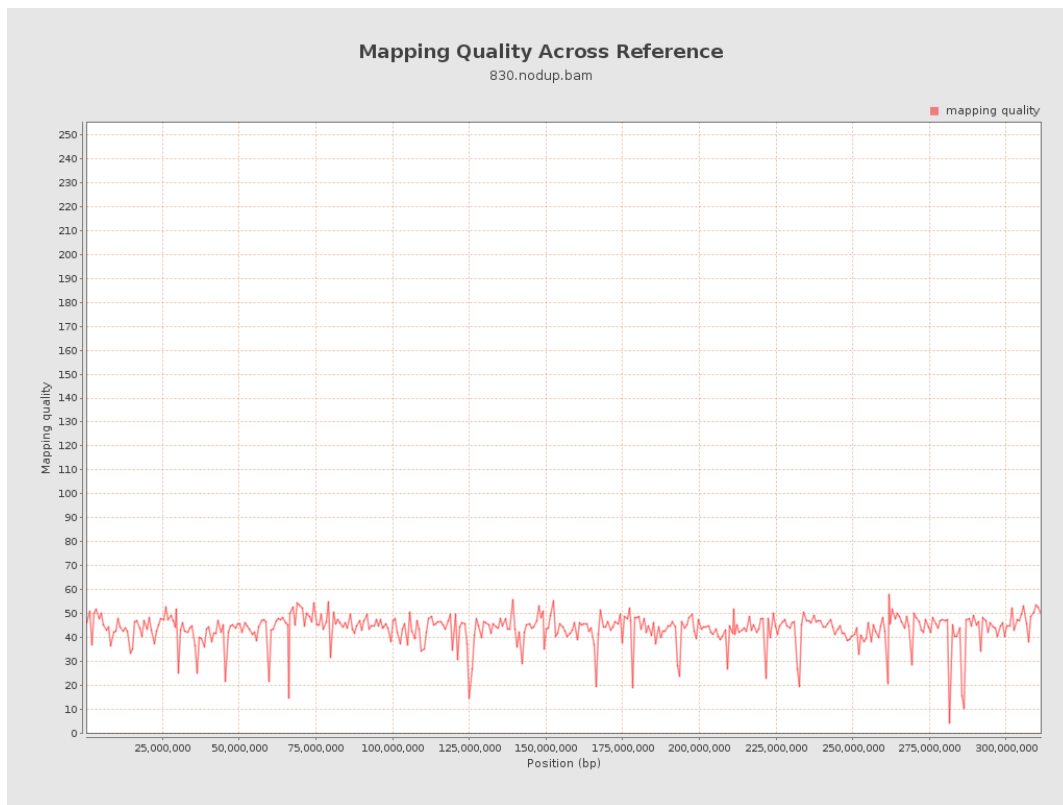
10. Results : Mapped Reads Clipping Profile



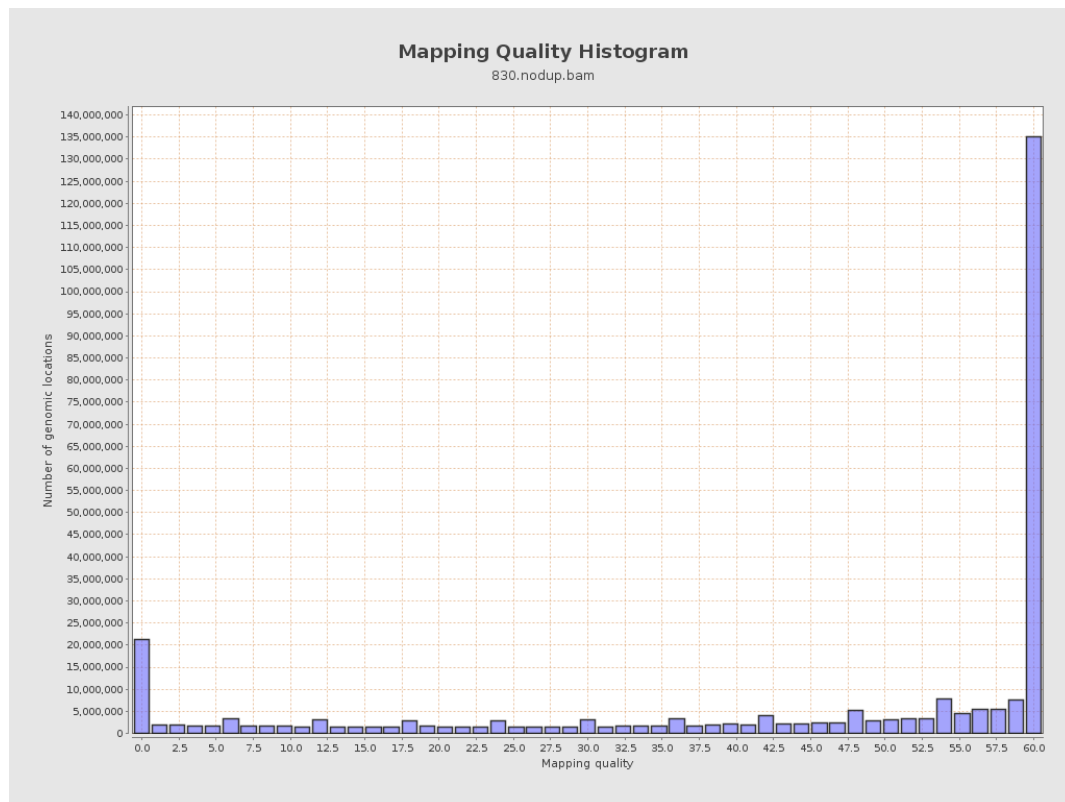
11. Results : Homopolymer Indels



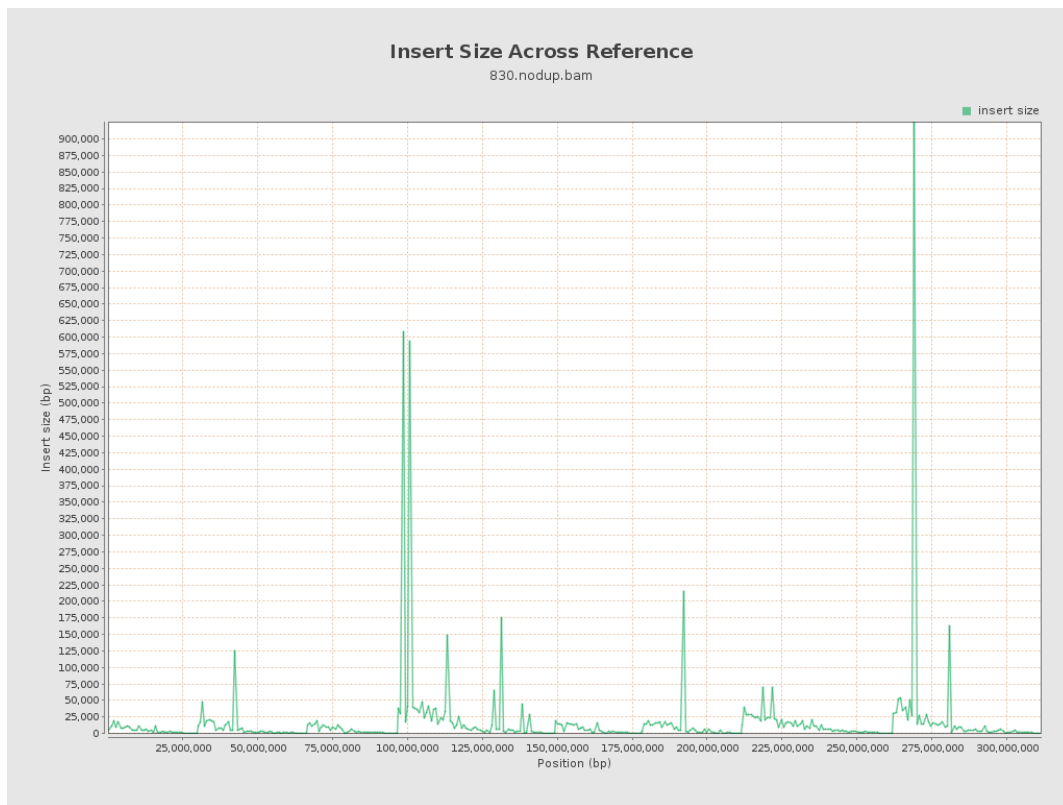
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

