

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:31:49

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/720
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 720 .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_227/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_227_S308_L003 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_227/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_227_S308_L003 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:31:48 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	74,633,731
Mapped reads	67,365,241 / 90.26%
Unmapped reads	7,268,490 / 9.74%
Mapped paired reads	67,365,241 / 90.26%
Mapped reads, first in pair	33,762,245 / 45.24%
Mapped reads, second in pair	33,602,996 / 45.02%
Mapped reads, both in pair	65,039,215 / 87.14%
Mapped reads, singletons	2,326,026 / 3.12%
Read min/max/mean length	30 / 151 / 148.01
Duplicated reads (flagged)	12,591,574 / 16.87%
Clipped reads	17,032,906 / 22.82%

2.2. ACGT Content

Number/percentage of A's	2,828,295,767 / 30.89%
Number/percentage of C's	1,748,912,470 / 19.1%
Number/percentage of T's	2,829,752,336 / 30.91%
Number/percentage of G's	1,747,995,067 / 19.09%
Number/percentage of N's	33,547 / 0%
GC Percentage	38.2%

2.3. Coverage

Mean	29.4531
Standard Deviation	322.6285

2.4. Mapping Quality

Mean Mapping Quality	44.1
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2.5. Insert size

Mean	260,481.91
Standard Deviation	2,451,796.17
P25/Median/P75	311 / 410 / 535

2.6. Mismatches and indels

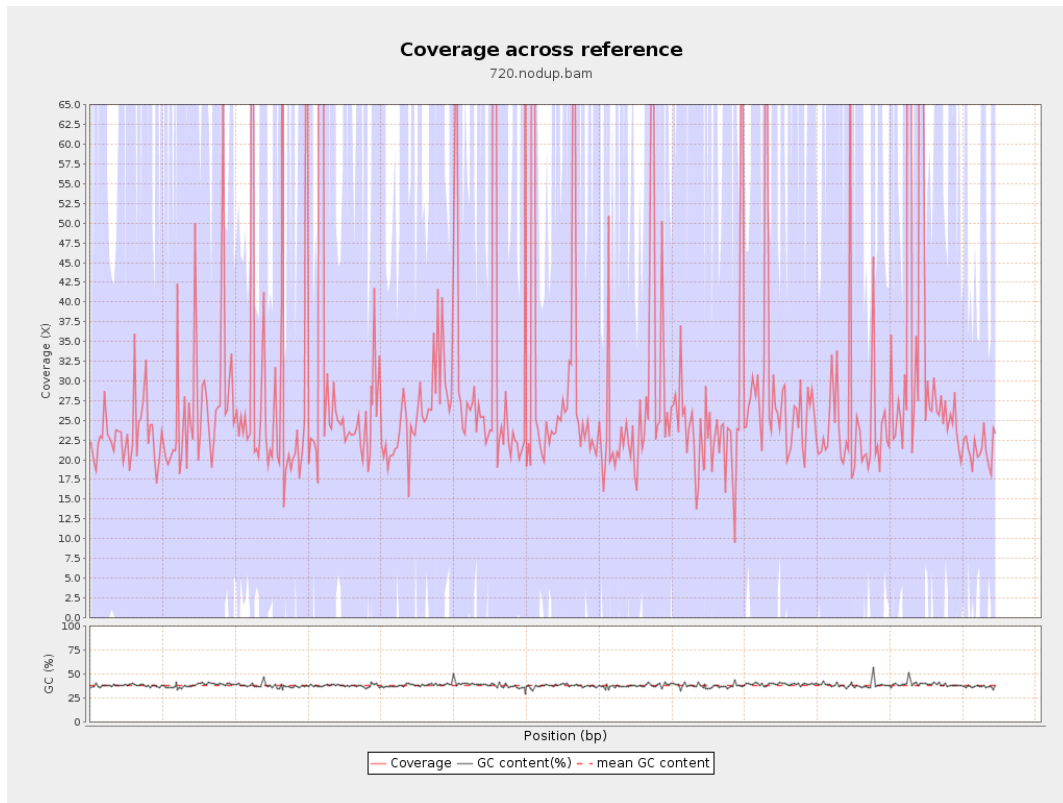
General error rate	2.43%
Mismatches	203,857,319
Insertions	6,898,134
Mapped reads with at least one insertion	9.1%
Deletions	6,469,260
Mapped reads with at least one deletion	8.52%
Homopolymer indels	57.48%

2.7. Chromosome stats

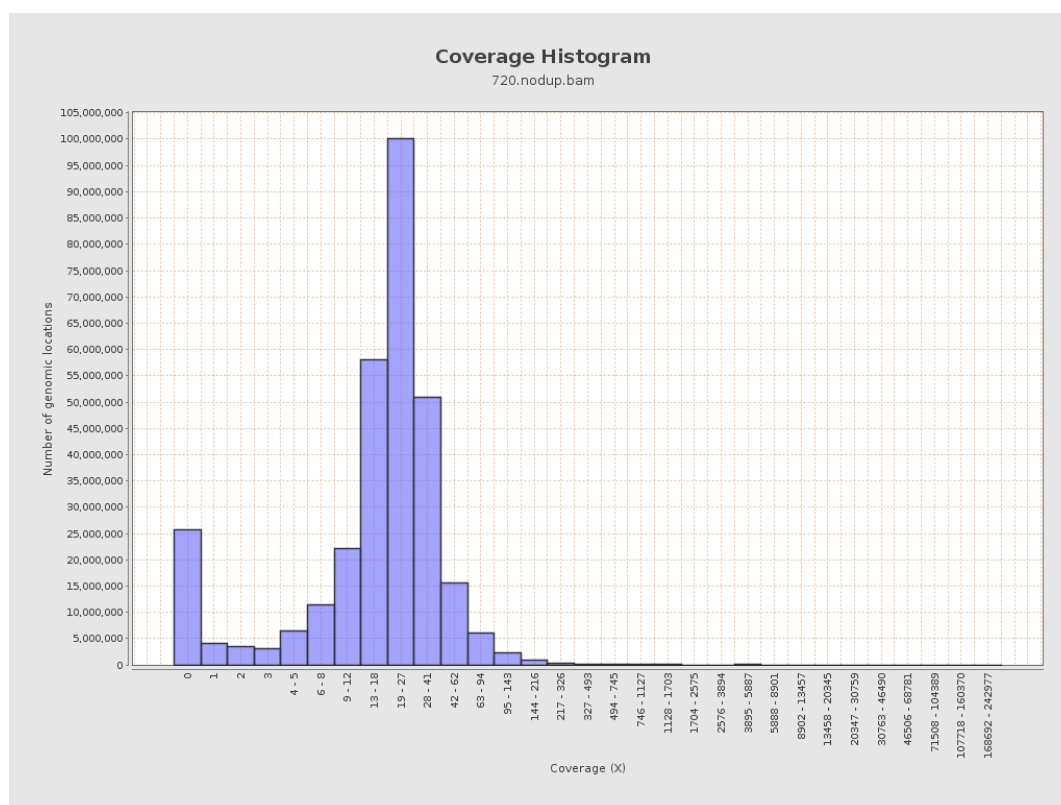
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	676479439	22.7584	122.9502

LT669789.1	36598175	1076665461	29.4186	321.1414
LT669790.1	30422129	1129068428	37.1134	477.3116
LT669791.1	52758100	1545725150	29.2983	341.1262
LT669792.1	28376109	844970513	29.7775	337.0271
LT669793.1	33388210	885831929	26.5313	198.6963
LT669794.1	50579949	1393471233	27.5499	261.7888
LT669795.1	49795044	1626623616	32.6664	378.4713

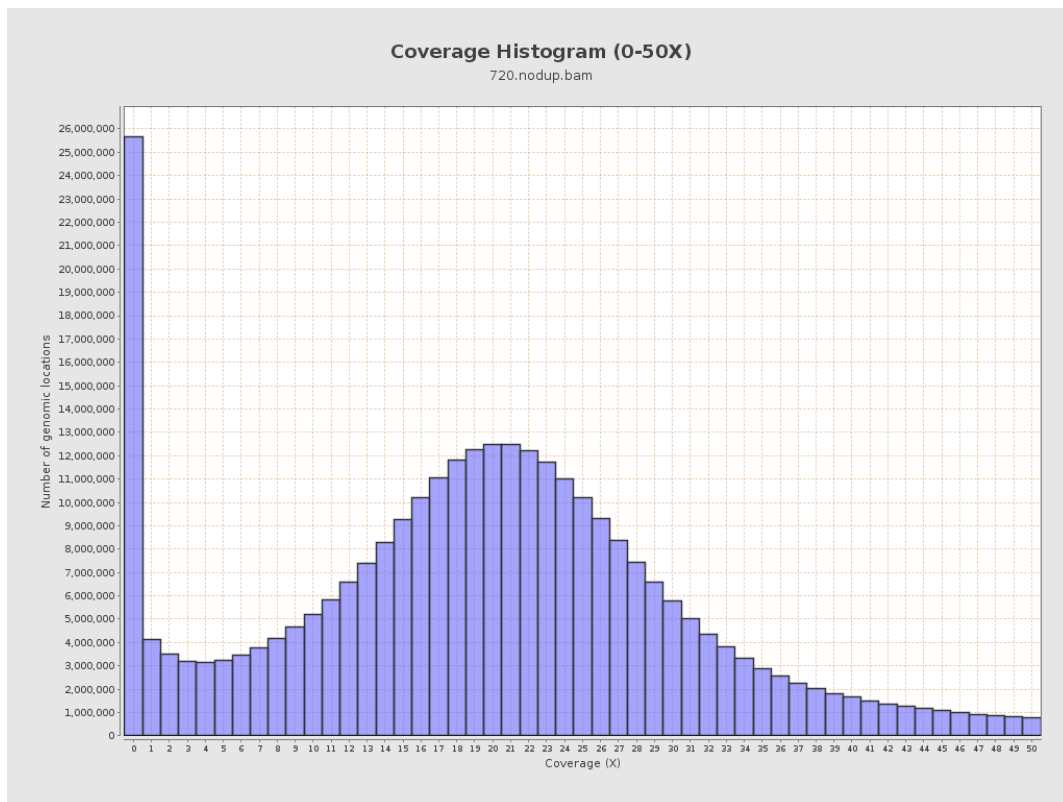
3. Results : Coverage across reference



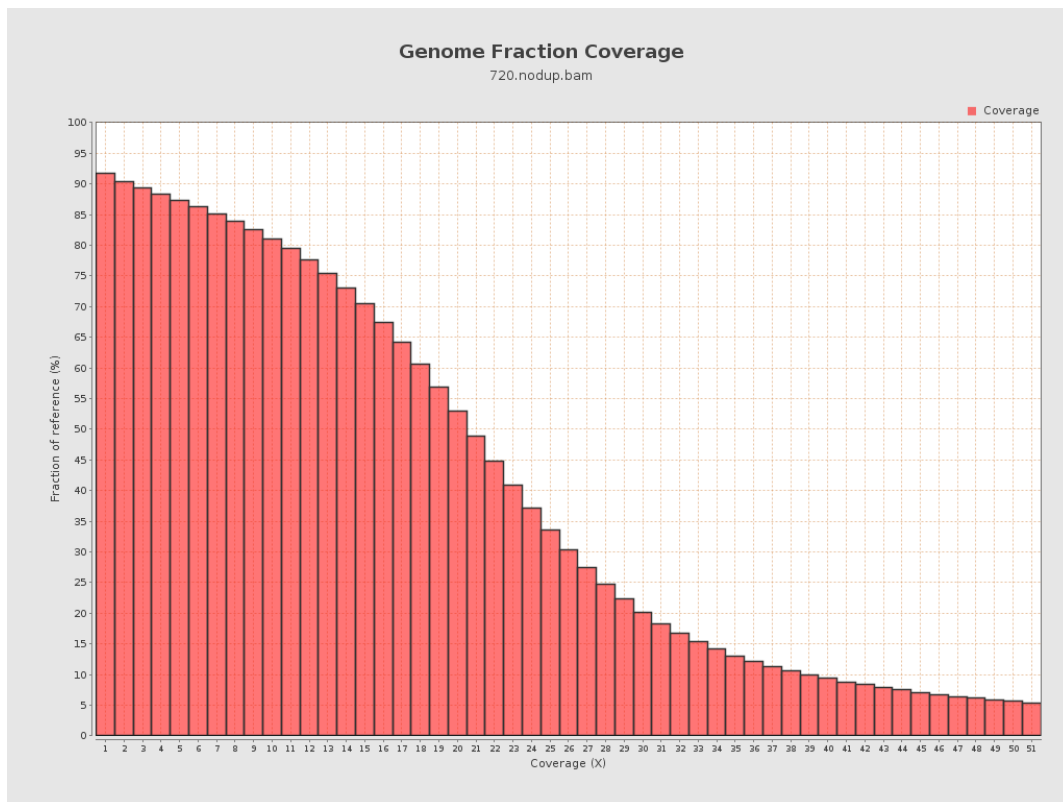
4. Results : Coverage Histogram



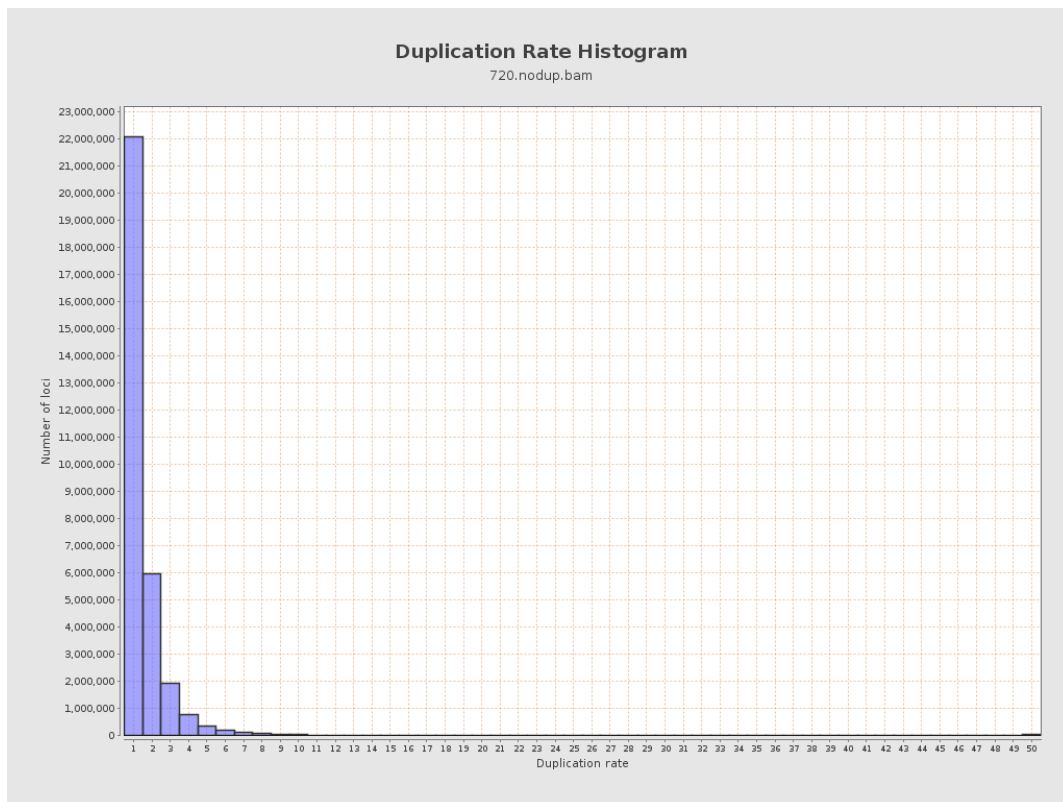
5. Results : Coverage Histogram (0-50X)



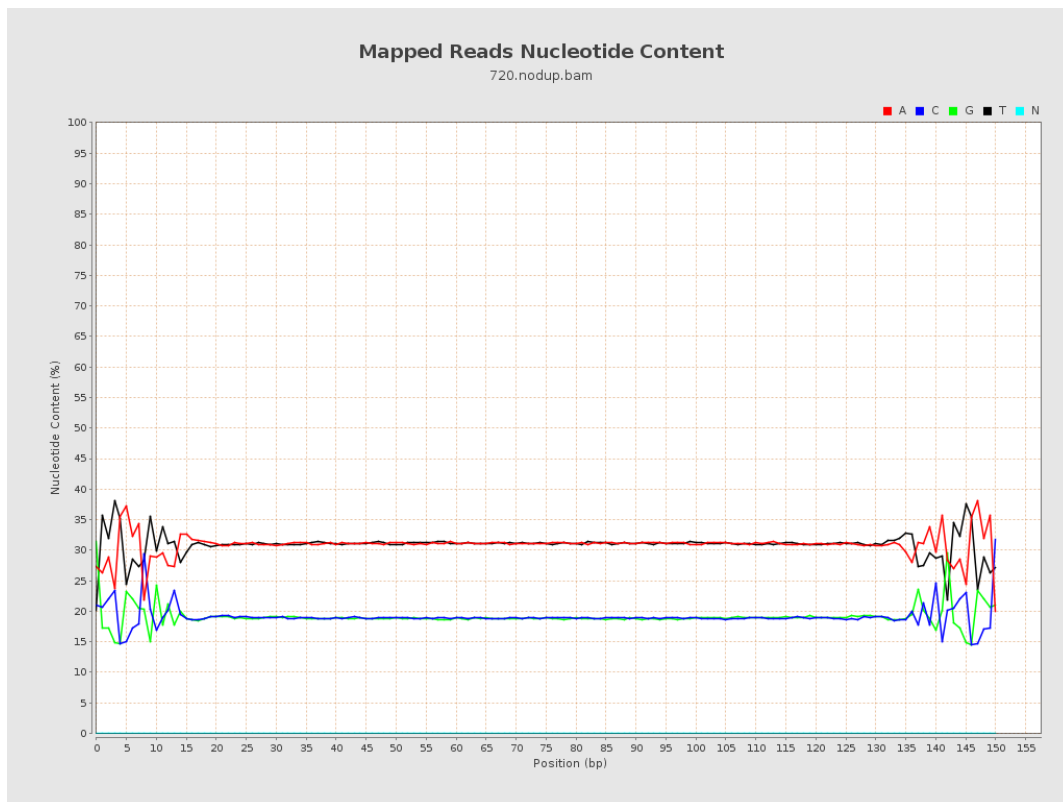
6. Results : Genome Fraction Coverage



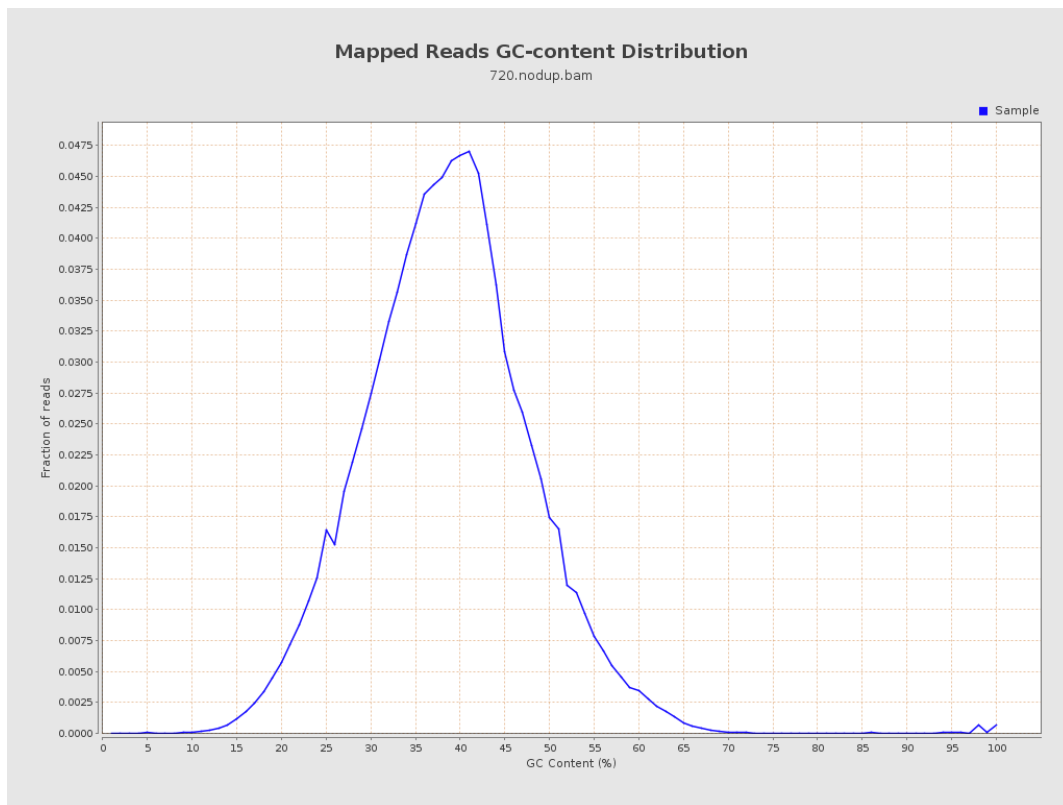
7. Results : Duplication Rate Histogram



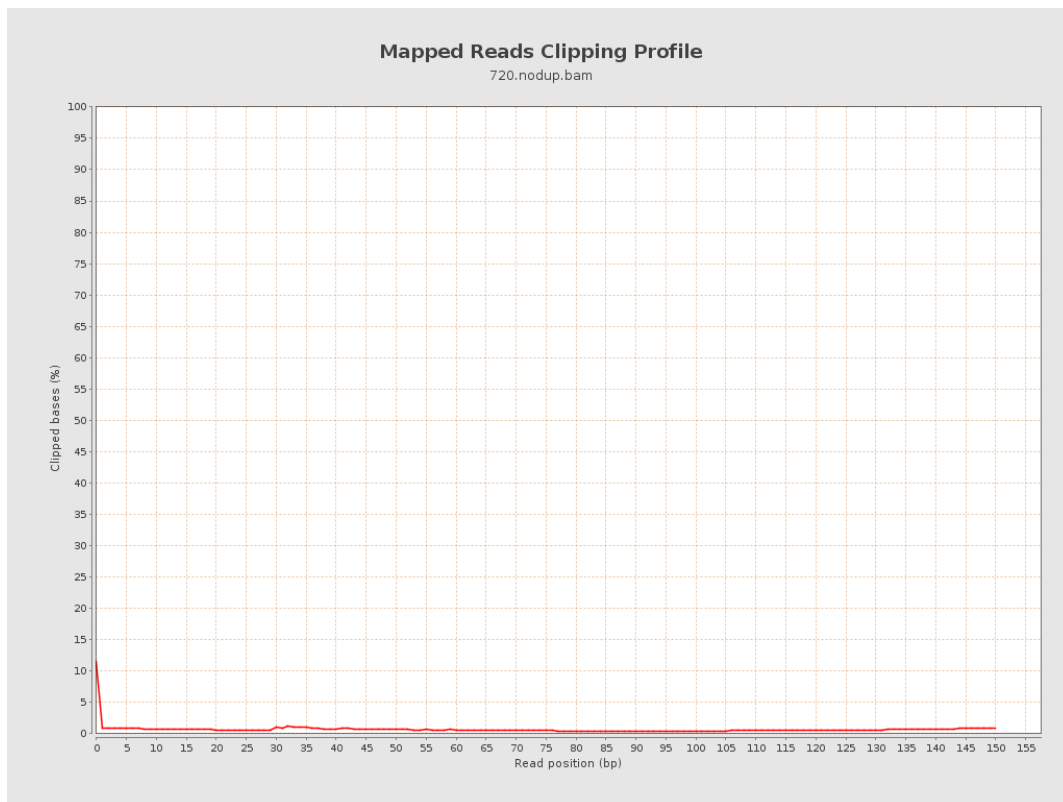
8. Results : Mapped Reads Nucleotide Content



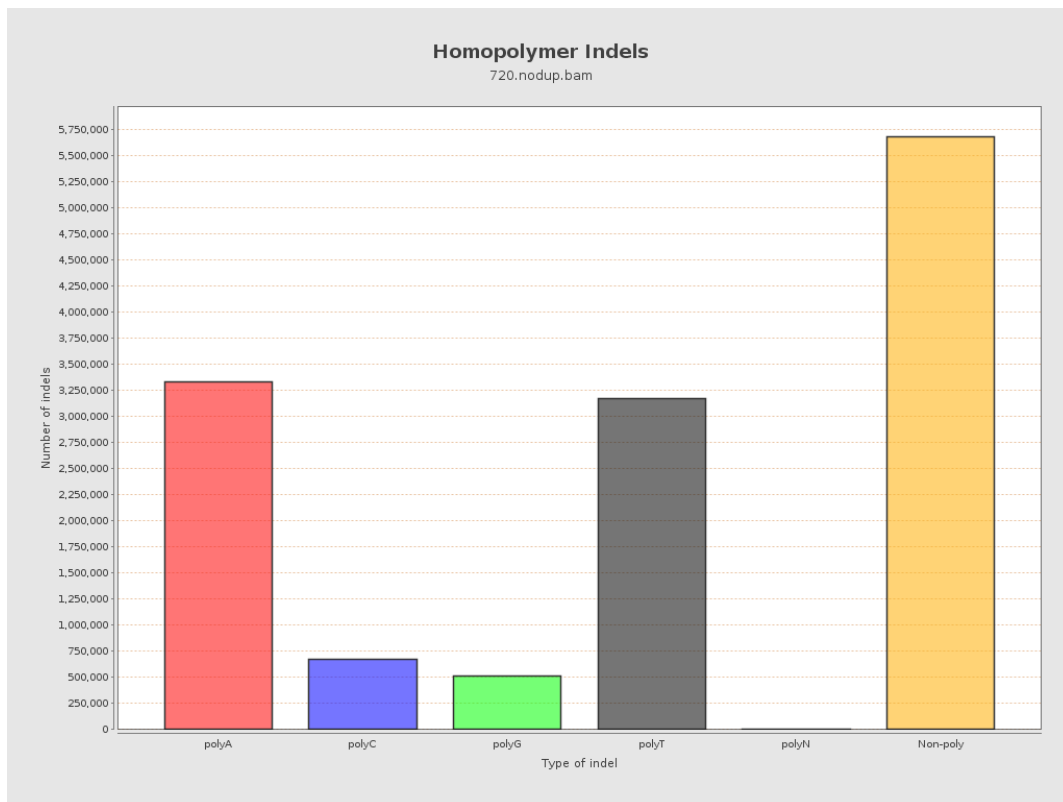
9. Results : Mapped Reads GC-content Distribution



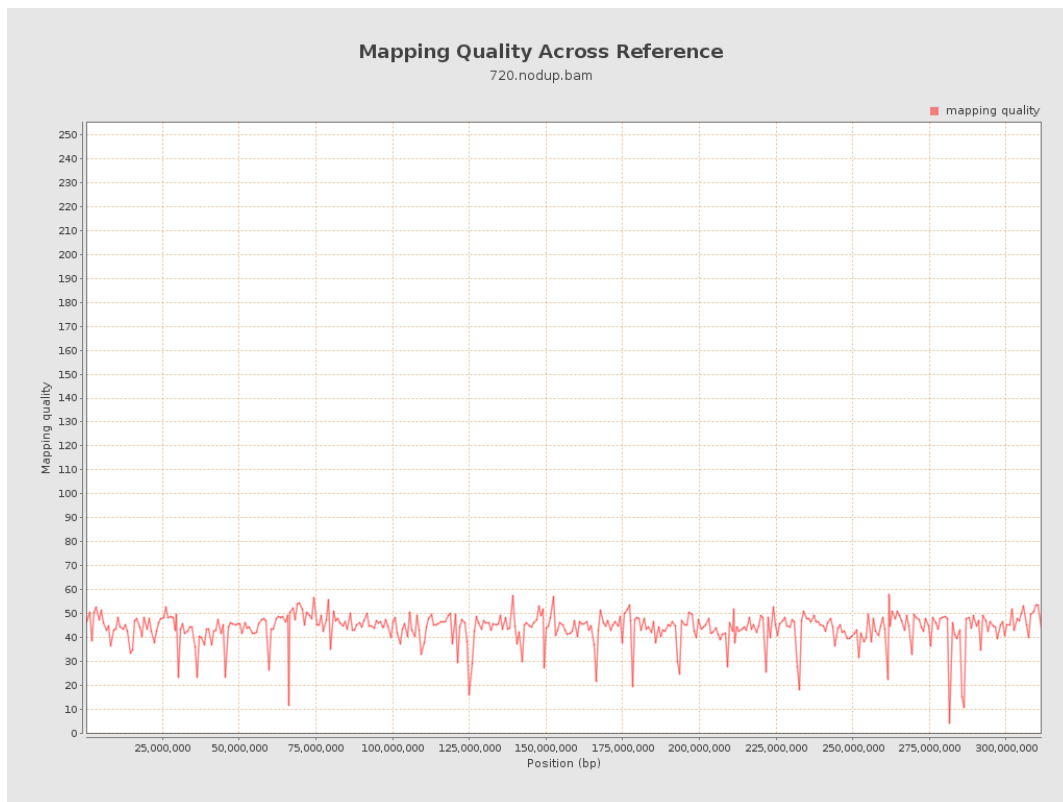
10. Results : Mapped Reads Clipping Profile



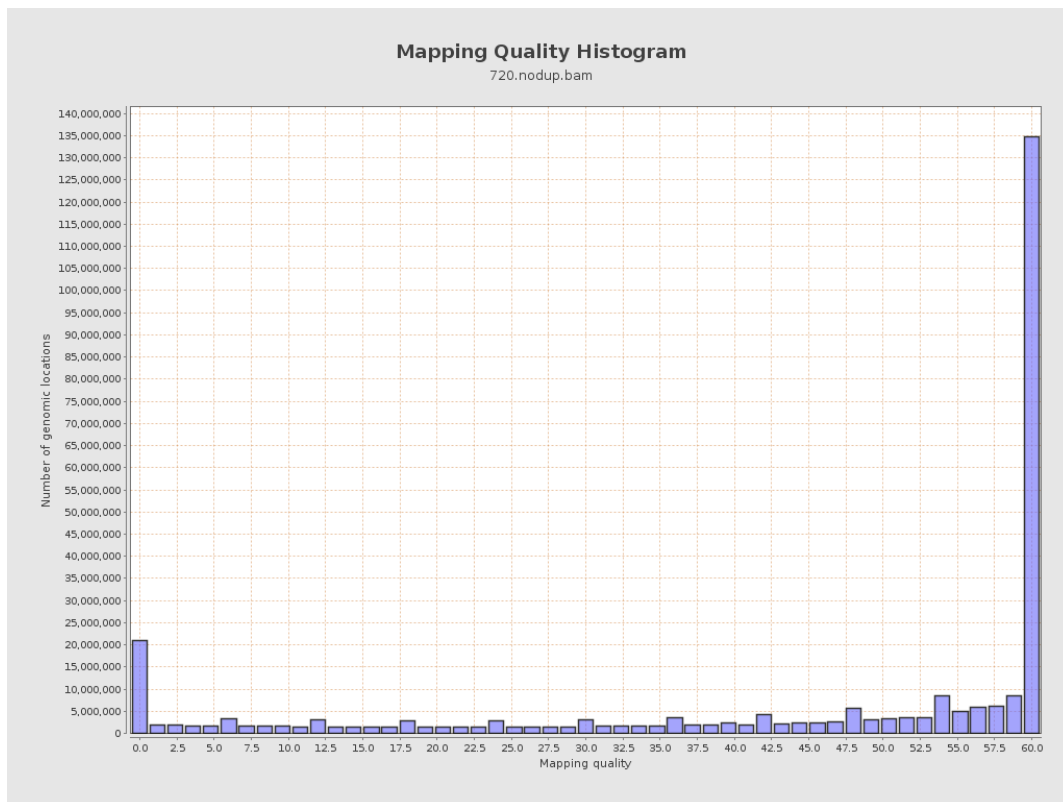
11. Results : Homopolymer Indels



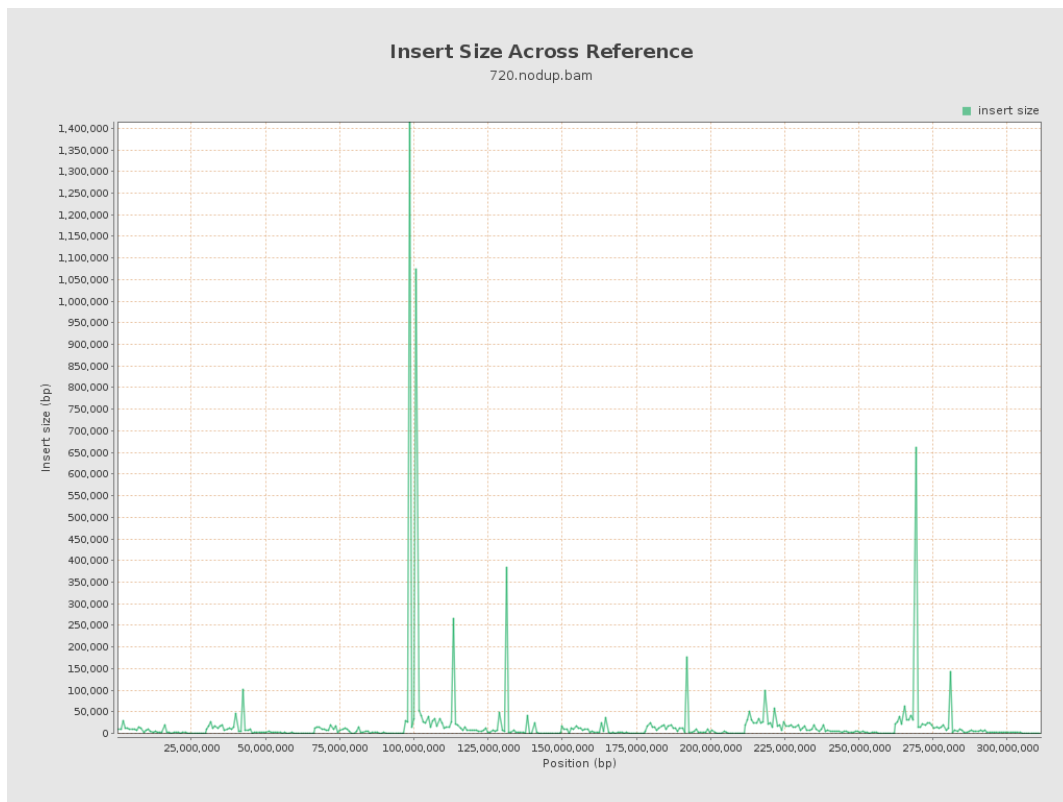
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

