

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:28:40

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/446
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 446 .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_210/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_210_S291_L003 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_210/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_210_S291_L003 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:28:39 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	61,151,195
Mapped reads	52,736,214 / 86.24%
Unmapped reads	8,414,981 / 13.76%
Mapped paired reads	52,736,214 / 86.24%
Mapped reads, first in pair	26,439,113 / 43.24%
Mapped reads, second in pair	26,297,101 / 43%
Mapped reads, both in pair	51,516,138 / 84.24%
Mapped reads, singletons	1,220,076 / 2%
Read min/max/mean length	30 / 151 / 148.2
Duplicated reads (flagged)	7,565,676 / 12.37%
Clipped reads	12,553,936 / 20.53%

2.2. ACGT Content

Number/percentage of A's	2,231,620,179 / 30.78%
Number/percentage of C's	1,394,139,395 / 19.23%
Number/percentage of T's	2,231,662,214 / 30.78%
Number/percentage of G's	1,393,770,036 / 19.22%
Number/percentage of N's	26,757 / 0%
GC Percentage	38.45%

2.3. Coverage

Mean	23.3287
Standard Deviation	196.0724

2.4. Mapping Quality

Mean Mapping Quality	43.92
----------------------	-------

2.5. Insert size

Mean	238,417.78
Standard Deviation	2,329,864.51
P25/Median/P75	315 / 416 / 542

2.6. Mismatches and indels

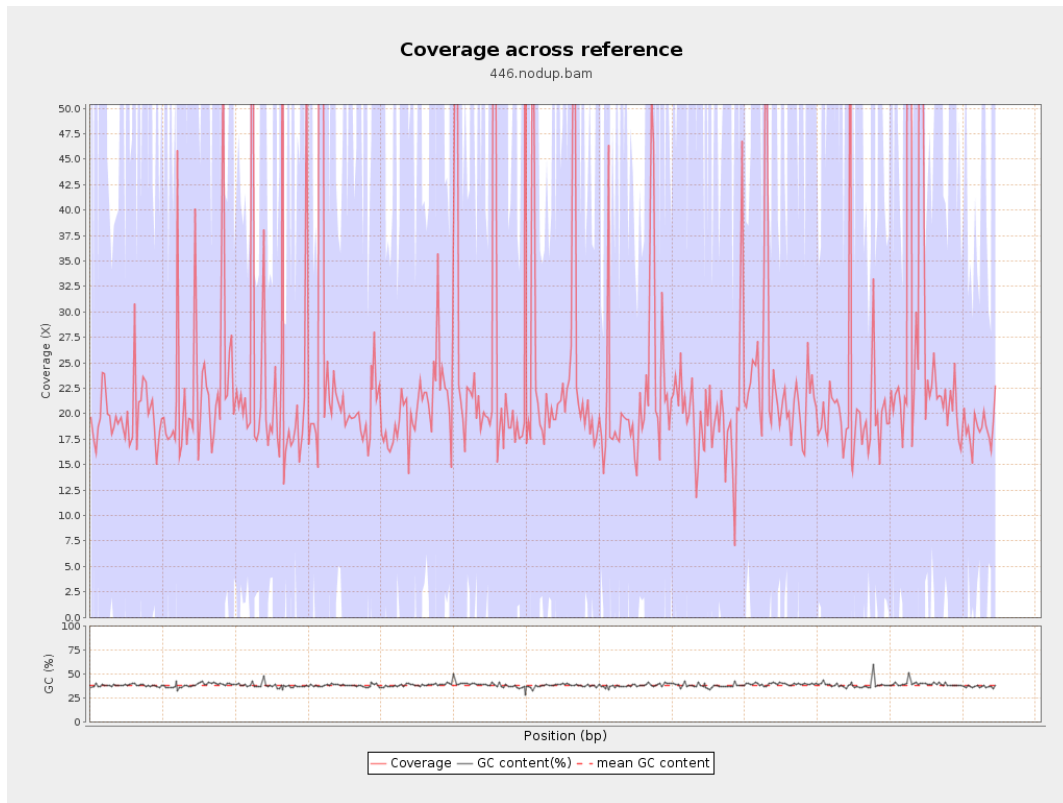
General error rate	2.35%
Mismatches	156,510,572
Insertions	5,011,622
Mapped reads with at least one insertion	8.52%
Deletions	5,076,702
Mapped reads with at least one deletion	8.54%
Homopolymer indels	56.63%

2.7. Chromosome stats

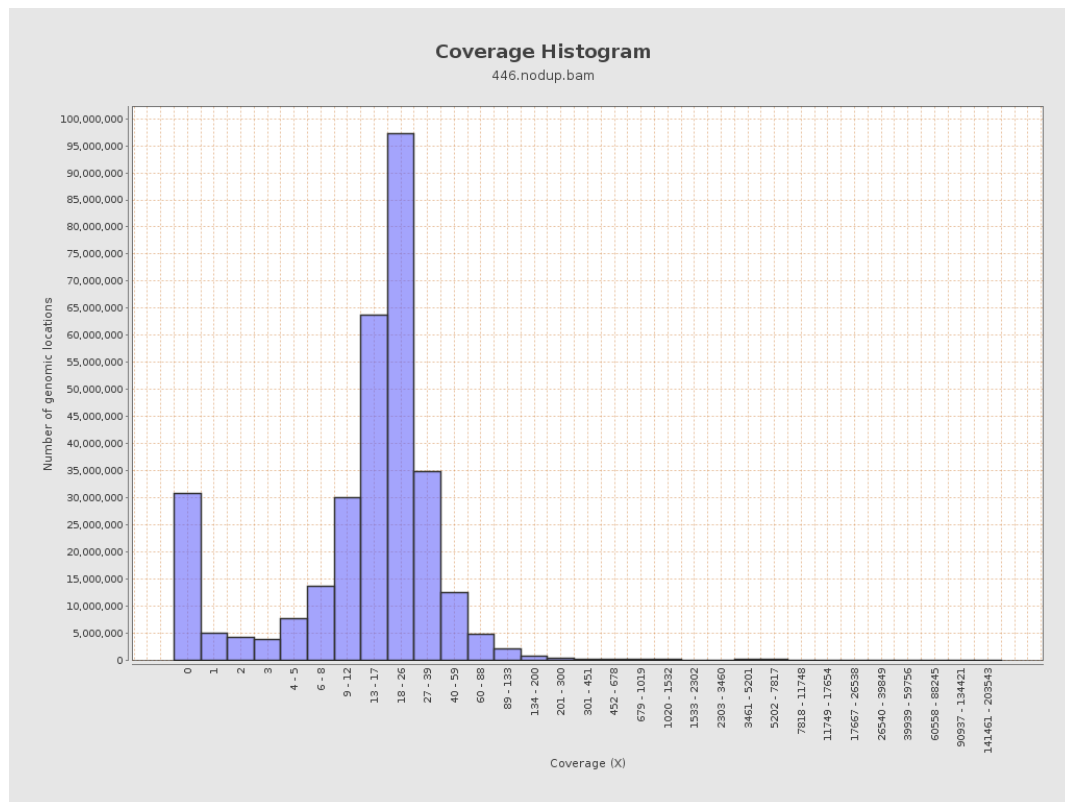
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	581973916	19.579	73.9565

LT669789.1	36598175	872099995	23.8291	213.0671
LT669790.1	30422129	780480505	25.655	212.7939
LT669791.1	52758100	1196535129	22.6796	193.955
LT669792.1	28376109	660493667	23.2764	188.2259
LT669793.1	33388210	715709145	21.436	102.6007
LT669794.1	50579949	1131885766	22.3782	182.1396
LT669795.1	49795044	1331038805	26.7303	274.7337

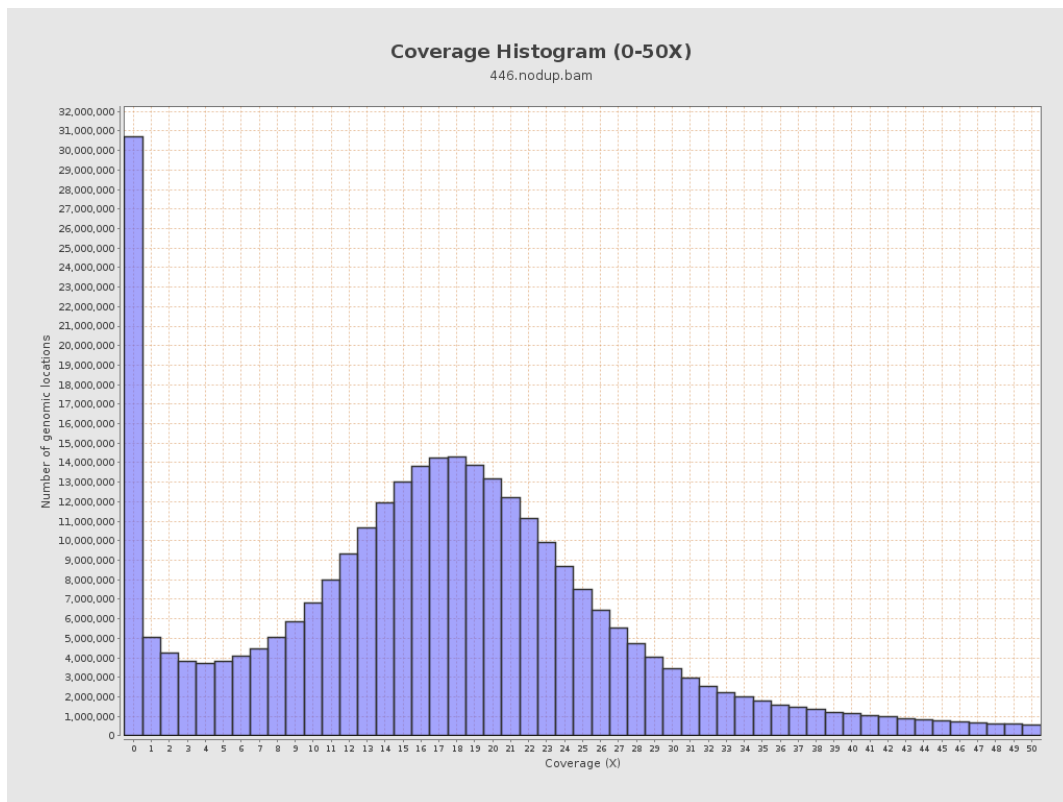
3. Results : Coverage across reference



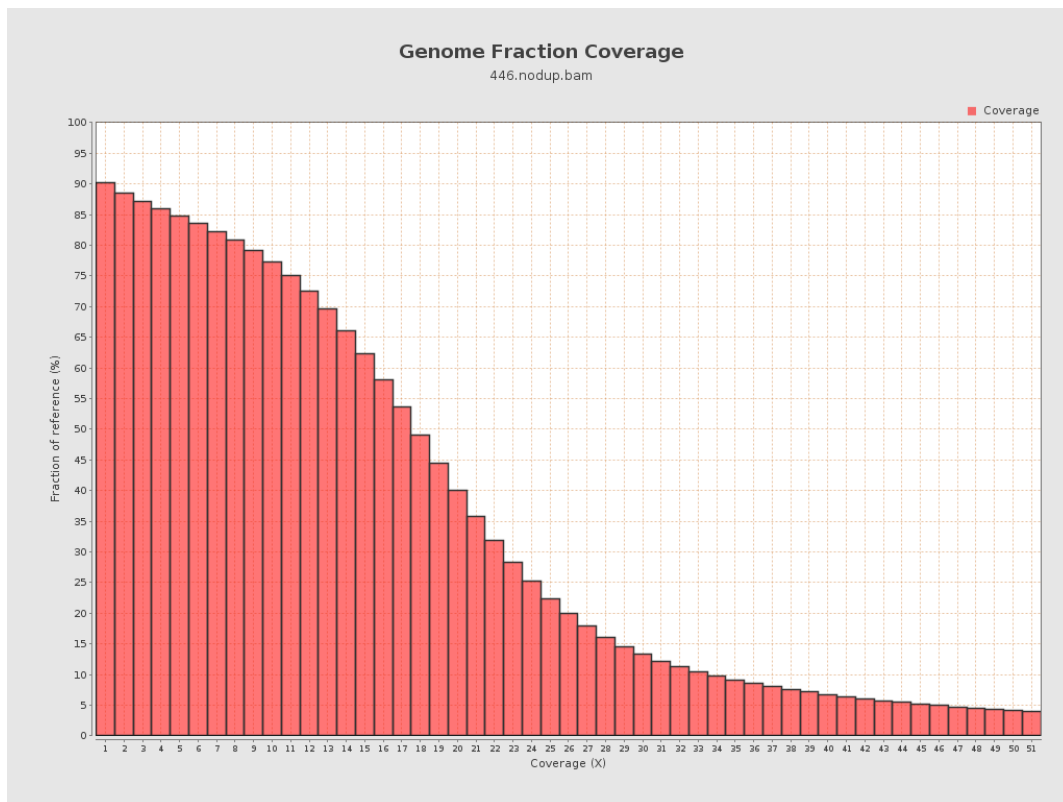
4. Results : Coverage Histogram



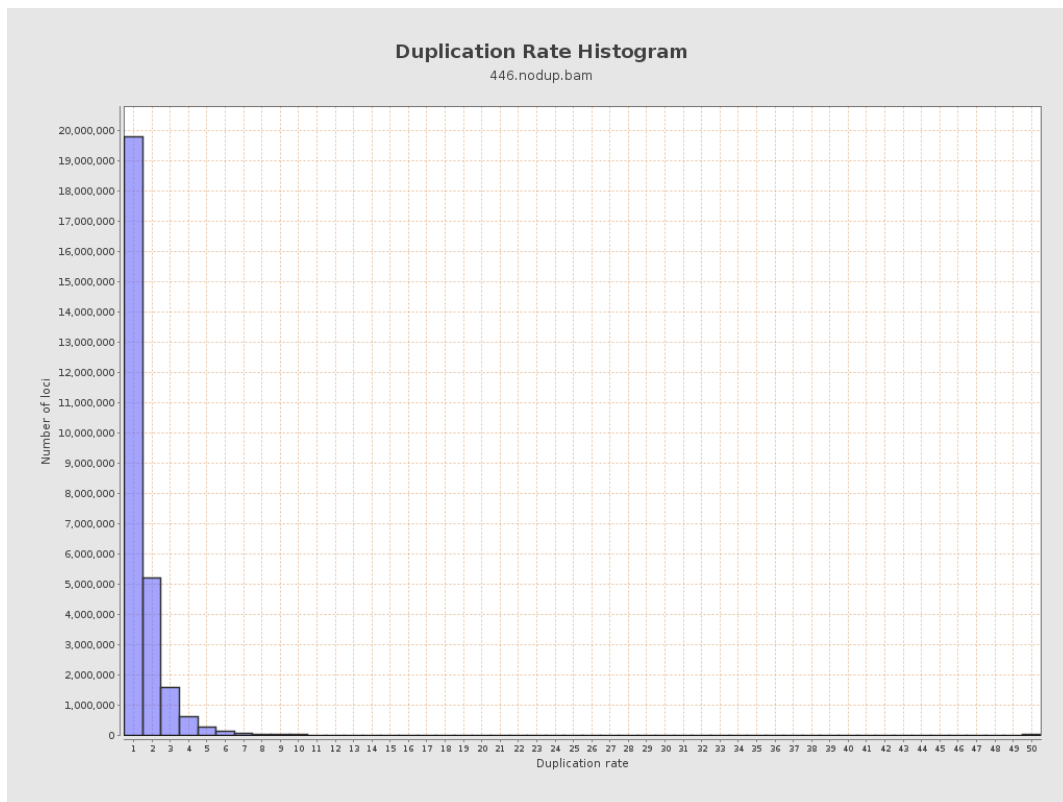
5. Results : Coverage Histogram (0-50X)



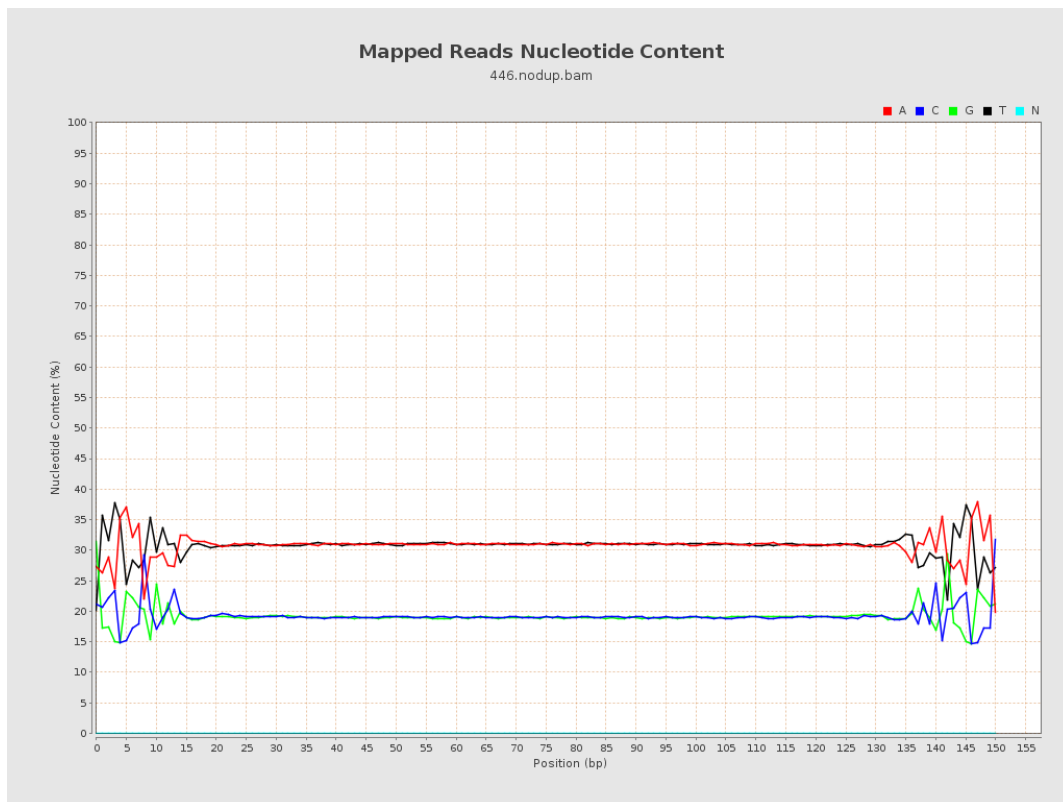
6. Results : Genome Fraction Coverage



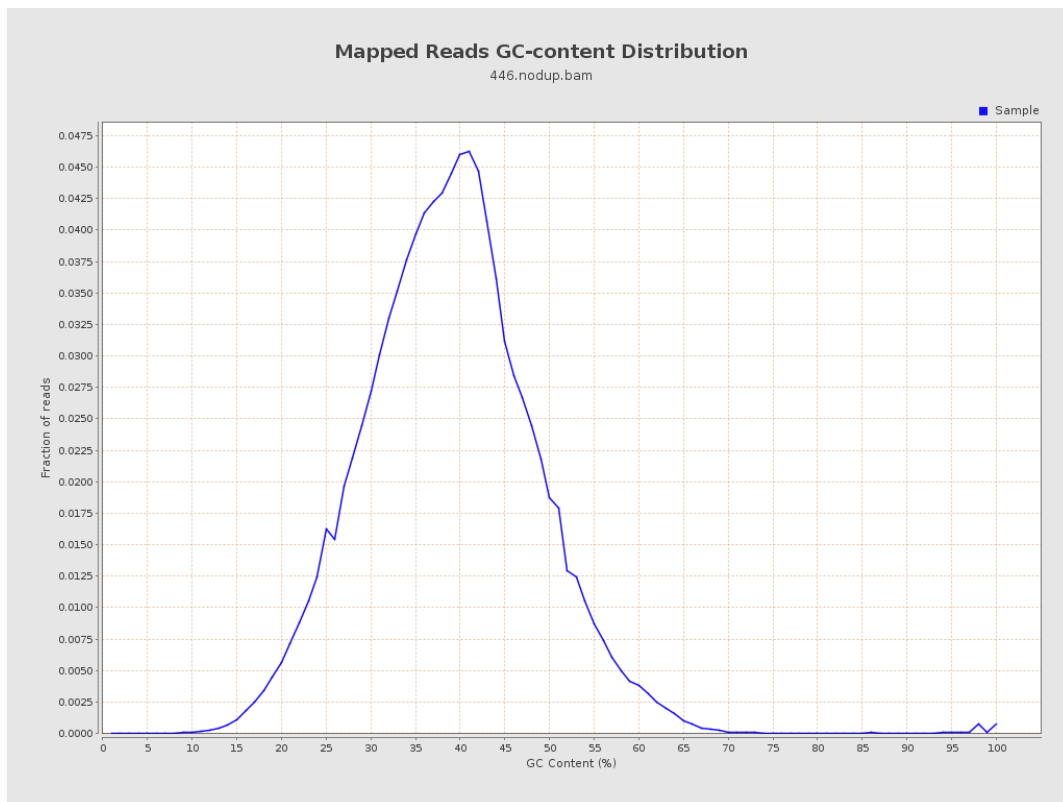
7. Results : Duplication Rate Histogram



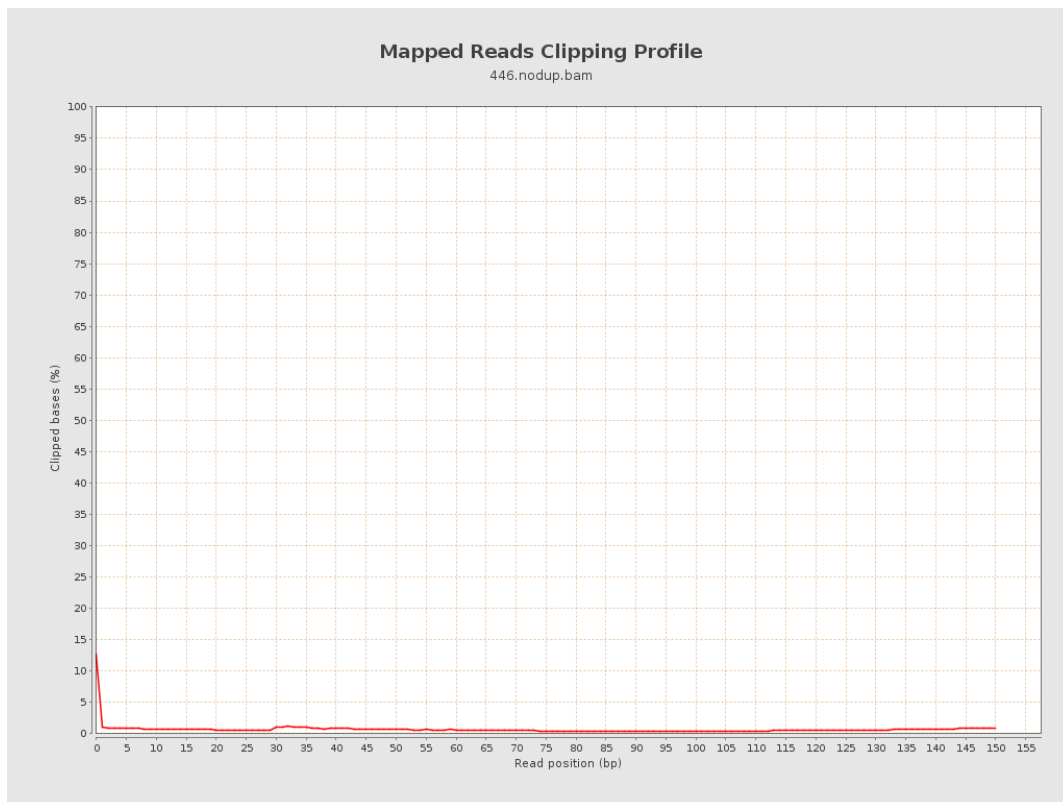
8. Results : Mapped Reads Nucleotide Content



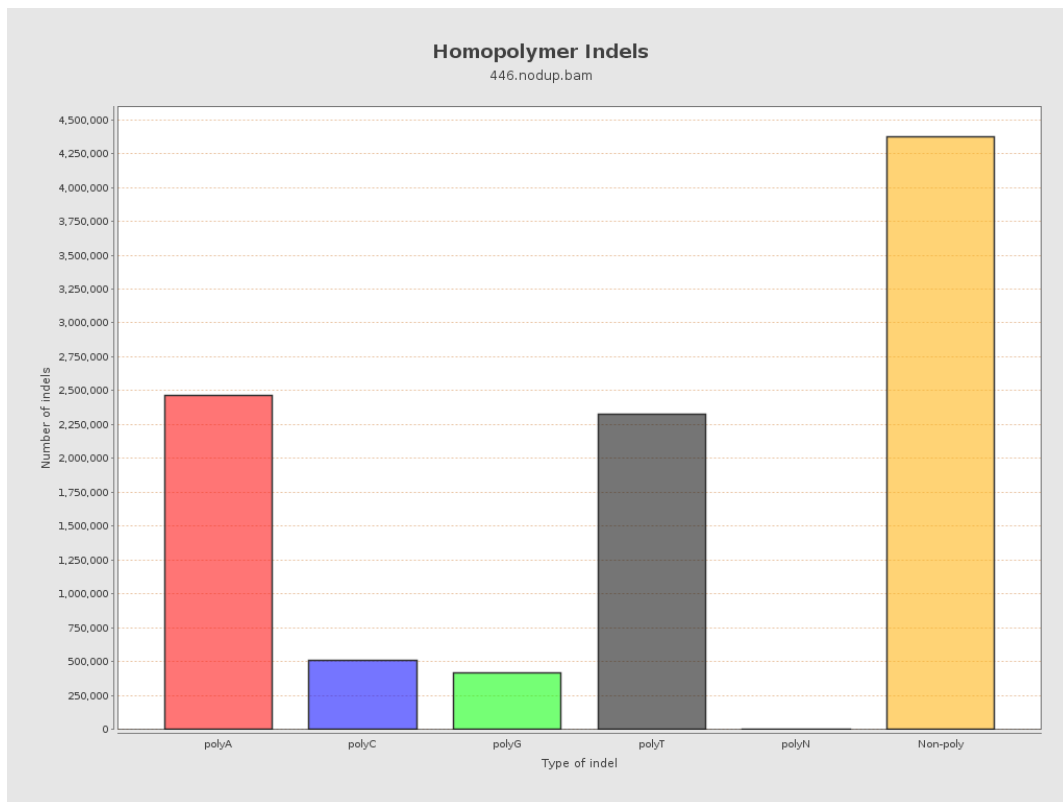
9. Results : Mapped Reads GC-content Distribution



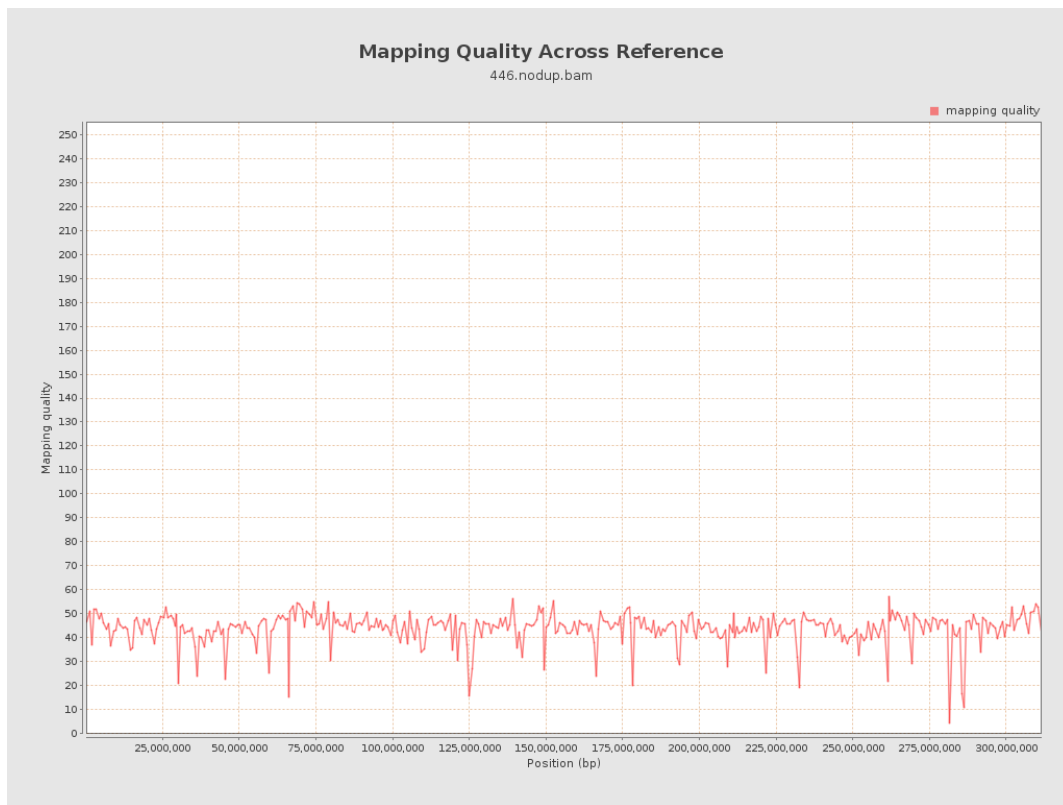
10. Results : Mapped Reads Clipping Profile



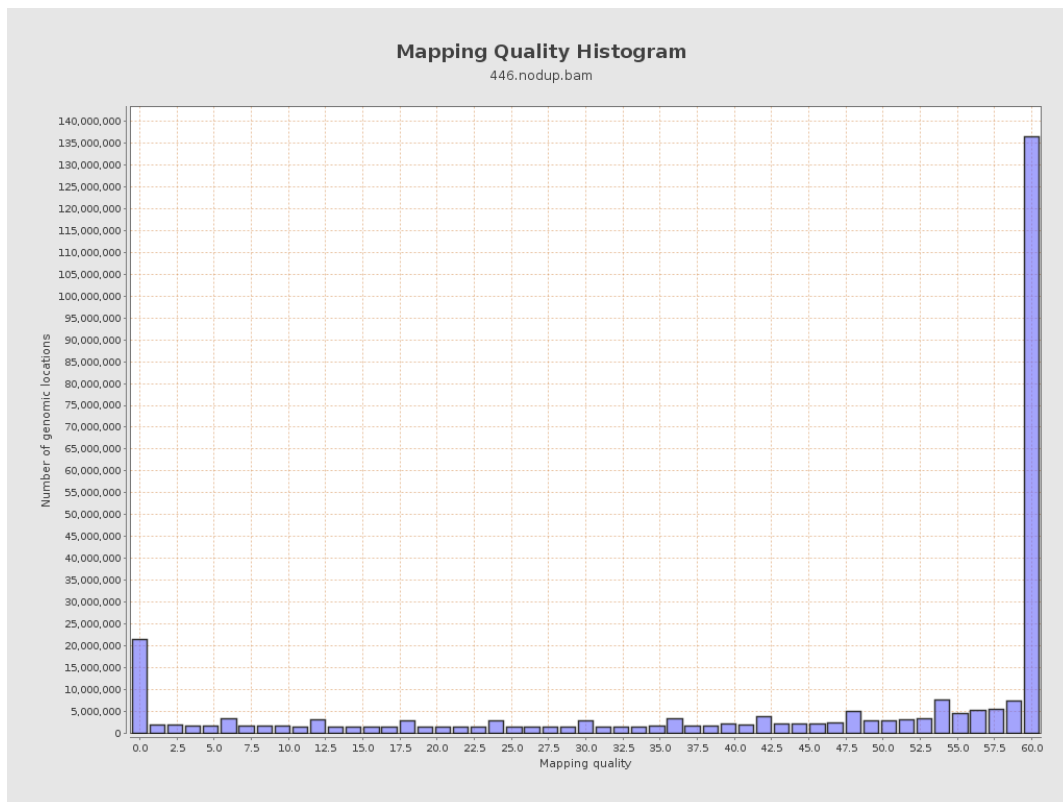
11. Results : Homopolymer Indels



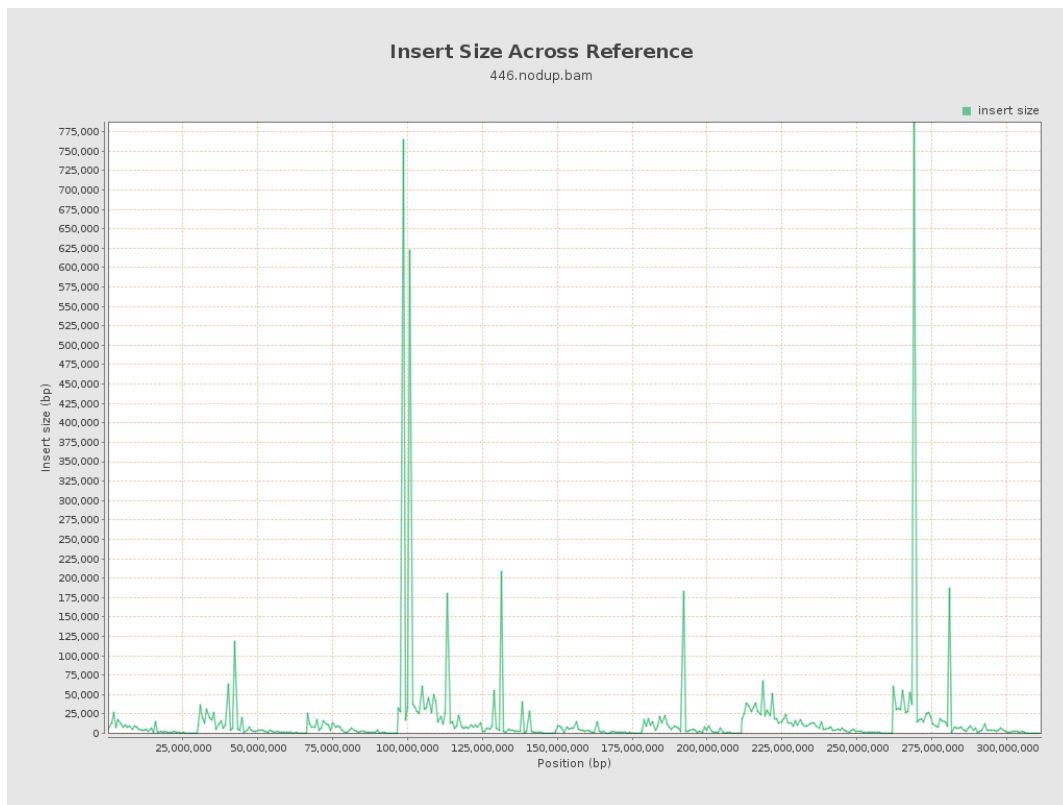
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

