

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.2.1

2023/05/29 21:34:33

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam
/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/826
.nodup.bam -nw 400 -hm 3
```

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/826 .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_288/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_288_S369_L003_R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/awdata/P26207/P26207_288/02-FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_288_S369_L003_R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400

Analysis date:	Mon May 29 21:34:32 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no

2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	76,813,571
Mapped reads	71,673,943 / 93.31%
Unmapped reads	5,139,628 / 6.69%
Mapped paired reads	71,673,943 / 93.31%
Mapped reads, first in pair	35,848,088 / 46.67%
Mapped reads, second in pair	35,825,855 / 46.64%
Mapped reads, both in pair	70,124,963 / 91.29%
Mapped reads, singletons	1,548,980 / 2.02%
Read min/max/mean length	30 / 151 / 148.16
Duplicated reads (flagged)	11,741,297 / 15.29%
Clipped reads	16,595,515 / 21.6%

2.2. ACGT Content

Number/percentage of A's	3,043,834,028 / 30.73%
Number/percentage of C's	1,908,824,343 / 19.27%
Number/percentage of T's	3,050,659,576 / 30.8%
Number/percentage of G's	1,901,041,541 / 19.19%
Number/percentage of N's	35,014 / 0%
GC Percentage	38.47%

2.3. Coverage

Mean	31.8608
Standard Deviation	270.9555

2.4. Mapping Quality

Mean Mapping Quality	44.29
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2.5. Insert size

Mean	223,942.89
Standard Deviation	2,248,251.98
P25/Median/P75	312 / 410 / 536

2.6. Mismatches and indels

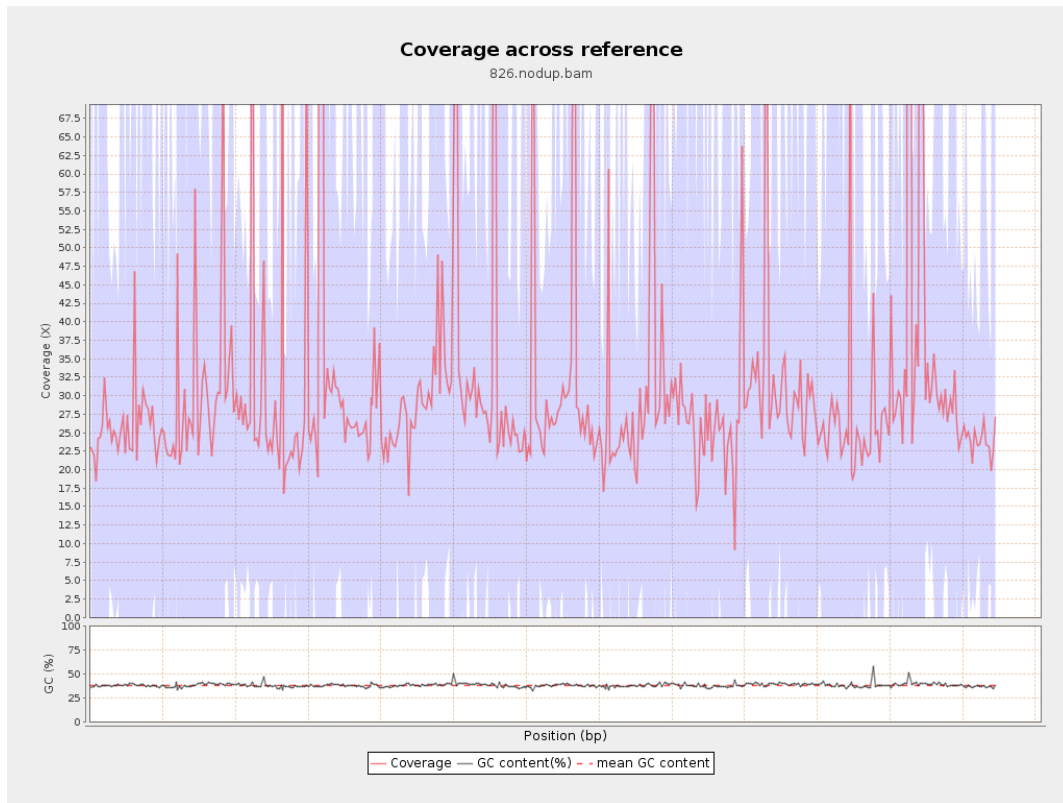
General error rate	2.37%
Mismatches	216,797,745
Insertions	6,689,761
Mapped reads with at least one insertion	8.38%
Deletions	6,638,374
Mapped reads with at least one deletion	8.23%
Homopolymer indels	56.37%

2.7. Chromosome stats

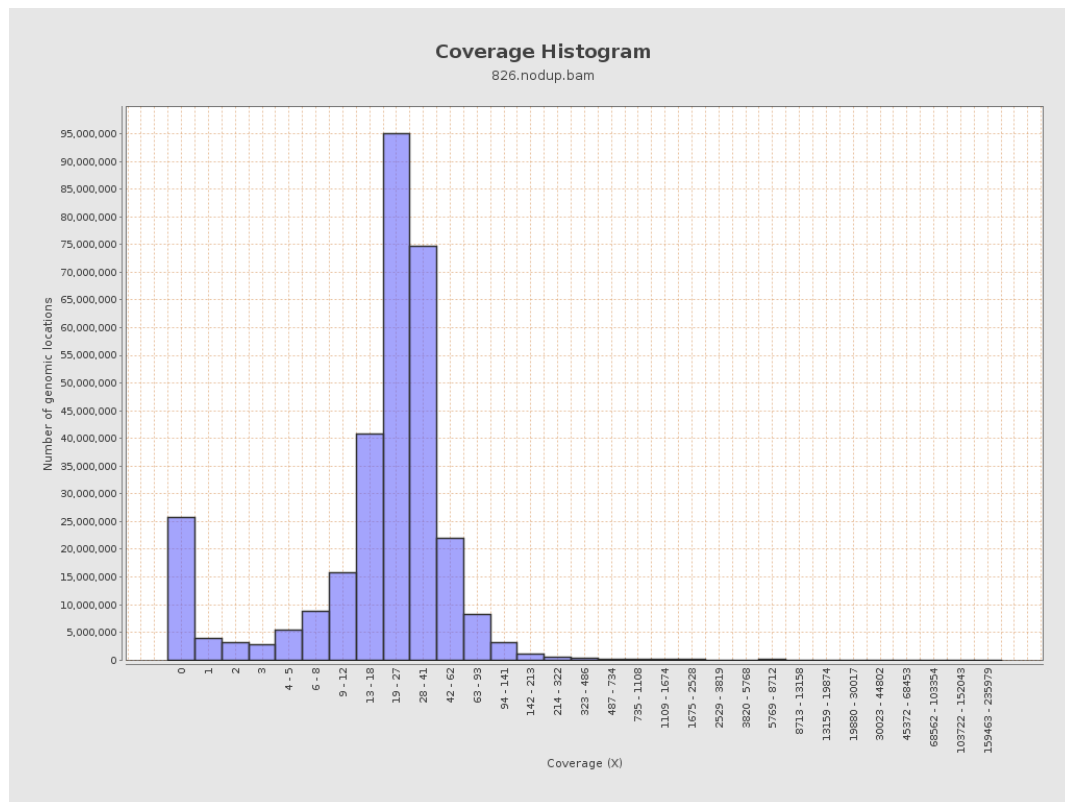
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	753274713	25.342	84.9005

LT669789.1	36598175	1172365742	32.0334	280.1511
LT669790.1	30422129	1066670868	35.0623	301.6922
LT669791.1	52758100	1666457009	31.5868	249.065
LT669792.1	28376109	880871559	31.0427	309.1142
LT669793.1	33388210	983419440	29.4541	192.8645
LT669794.1	50579949	1522120236	30.0934	229.0918
LT669795.1	49795044	1883999764	37.8351	378.6602

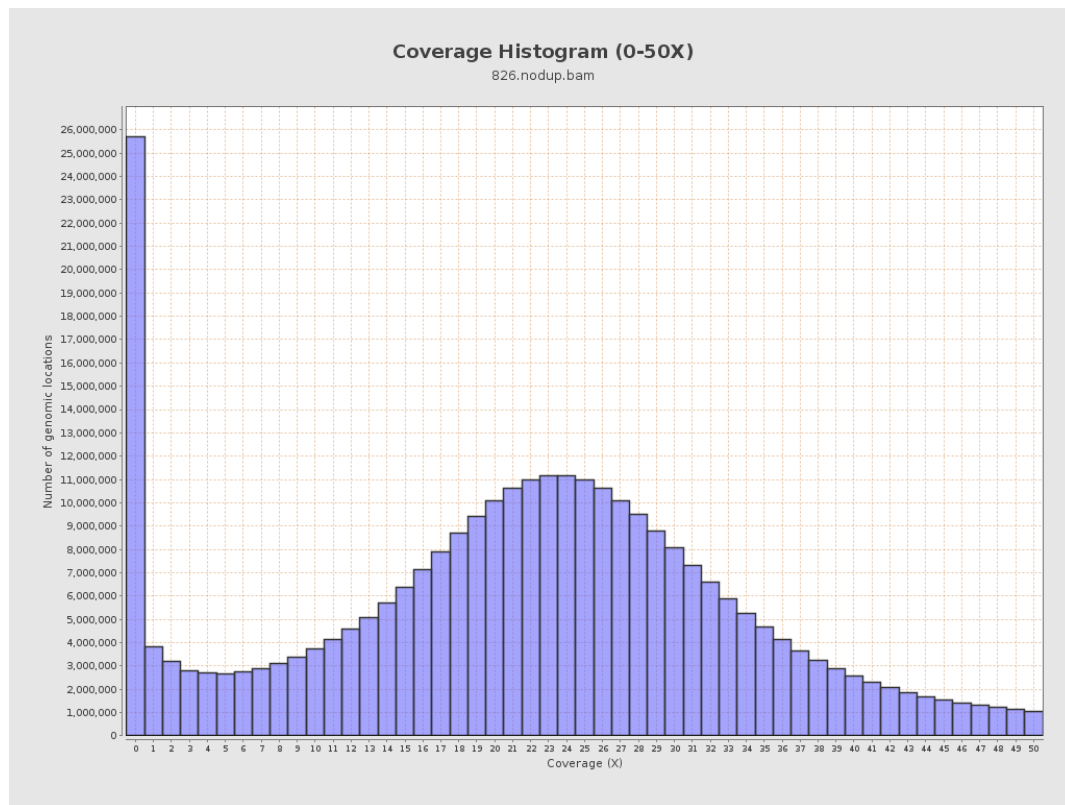
3. Results : Coverage across reference



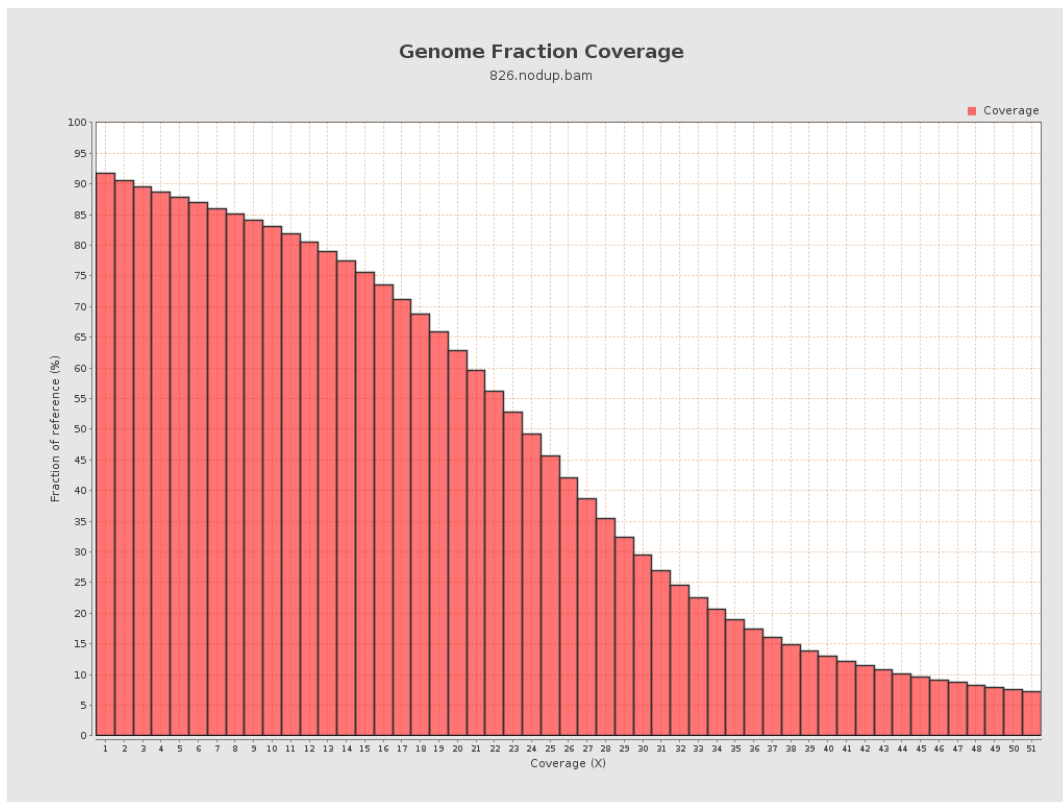
4. Results : Coverage Histogram



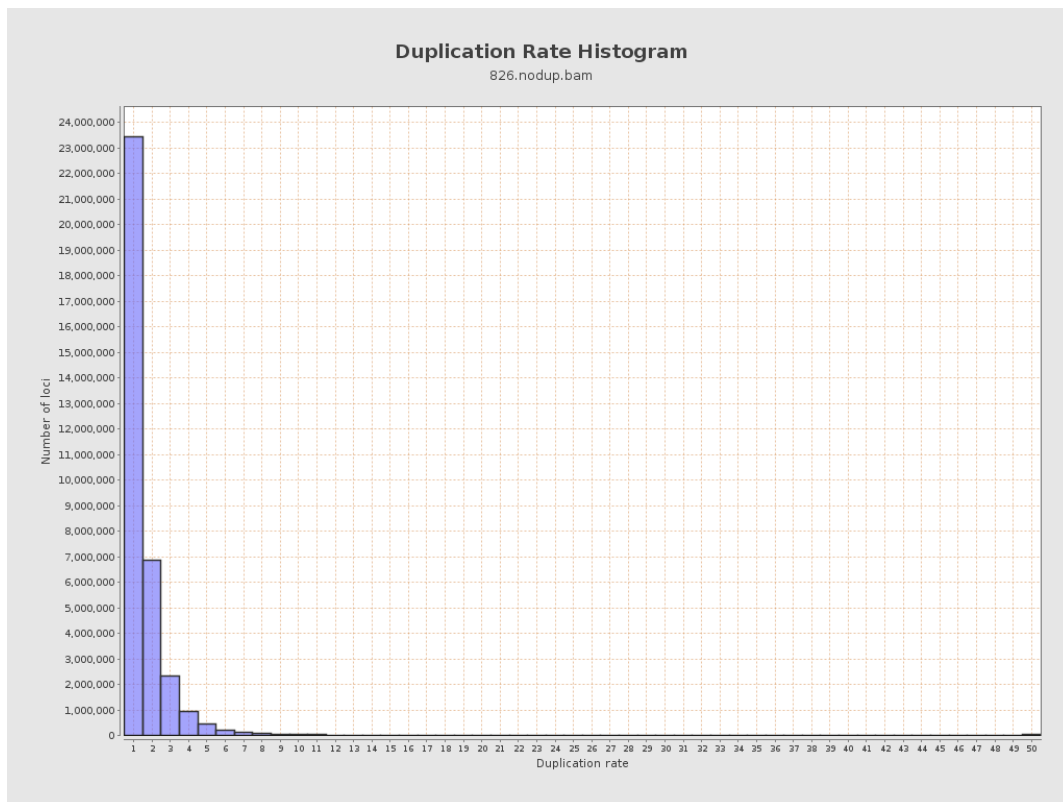
5. Results : Coverage Histogram (0-50X)



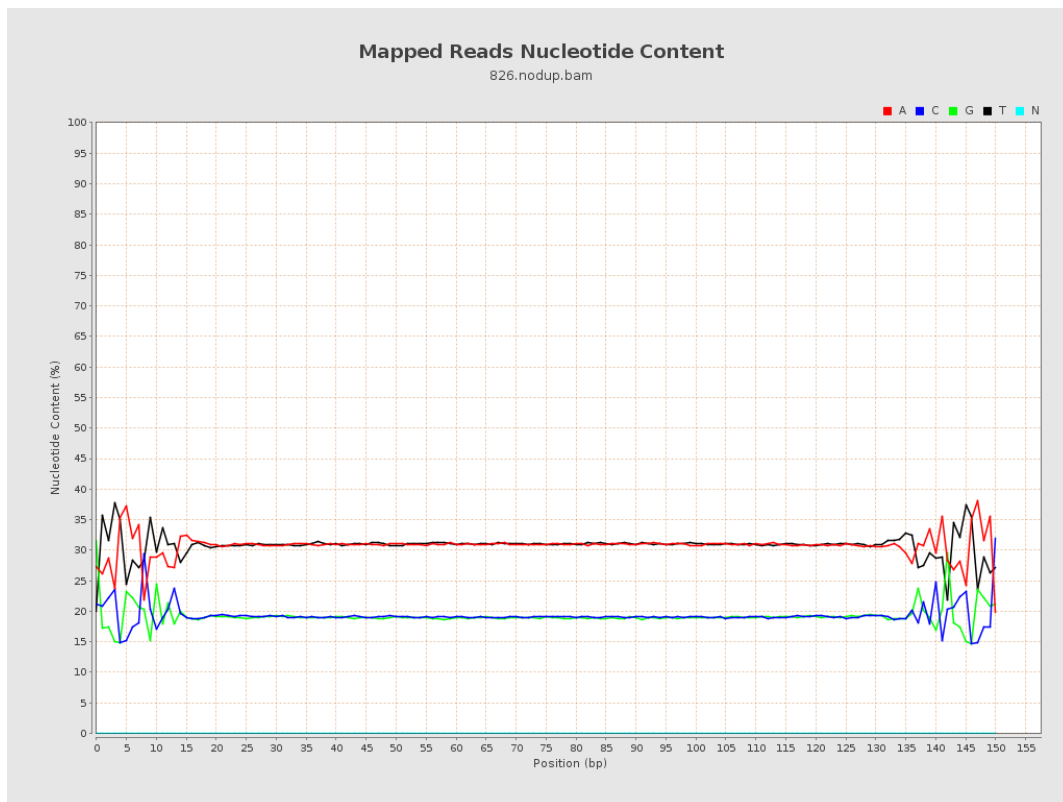
6. Results : Genome Fraction Coverage



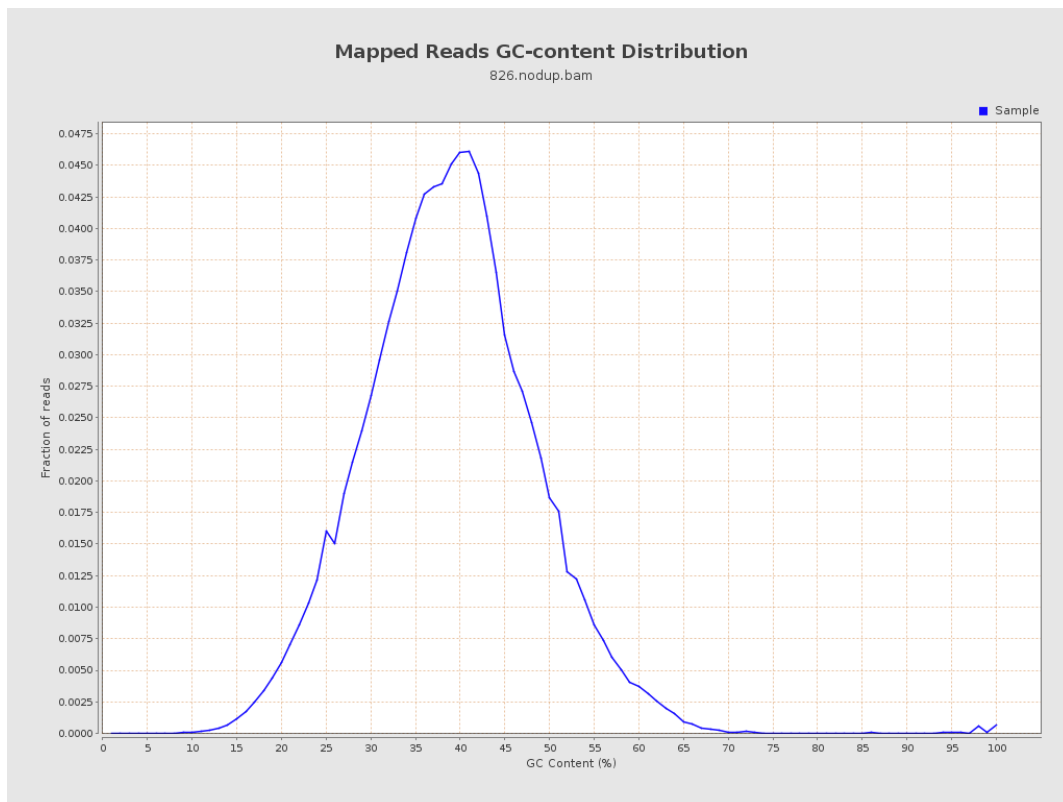
7. Results : Duplication Rate Histogram



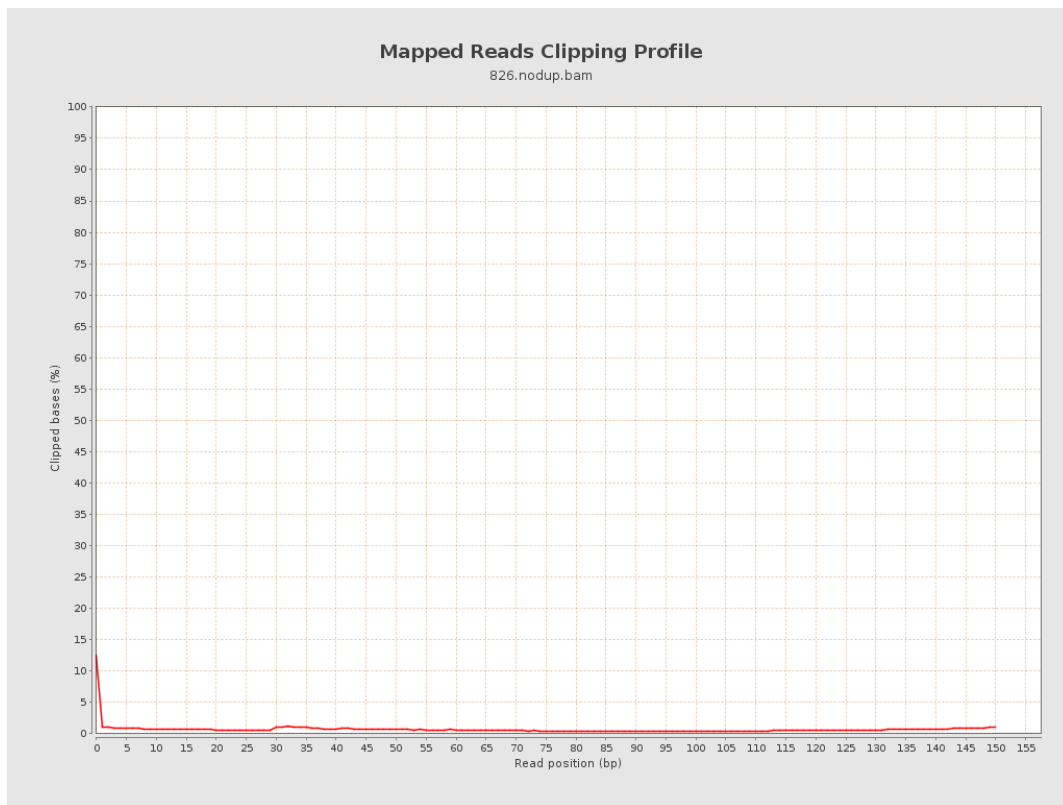
8. Results : Mapped Reads Nucleotide Content



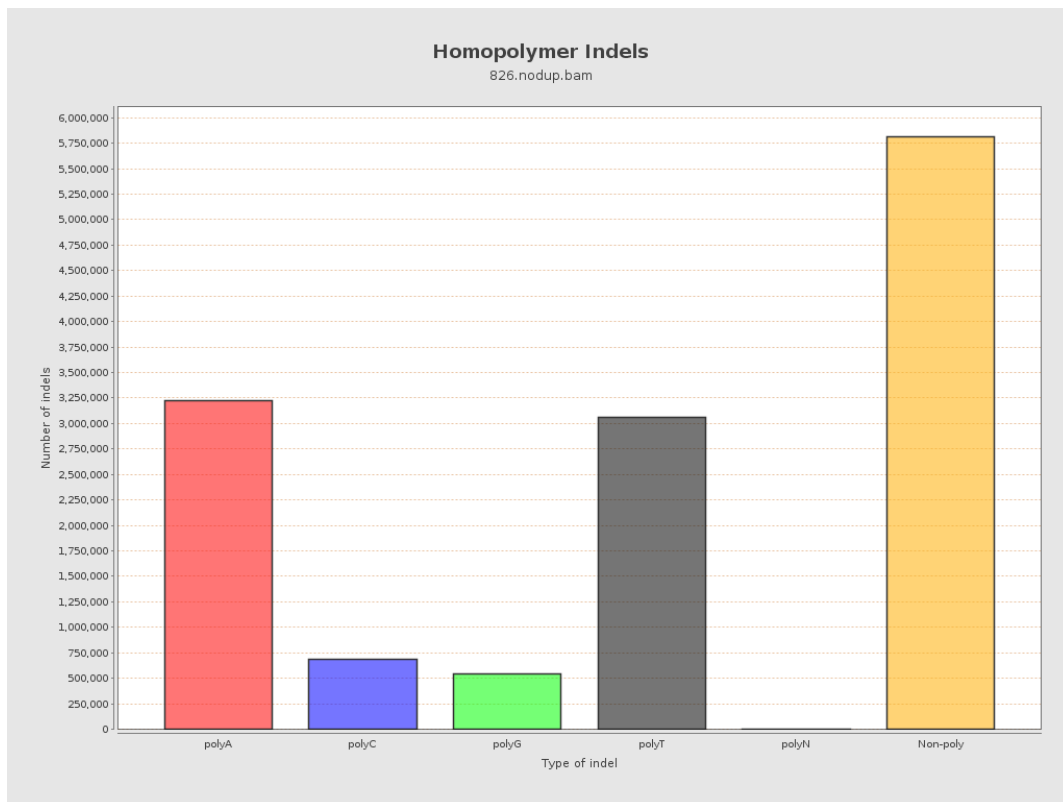
9. Results : Mapped Reads GC-content Distribution



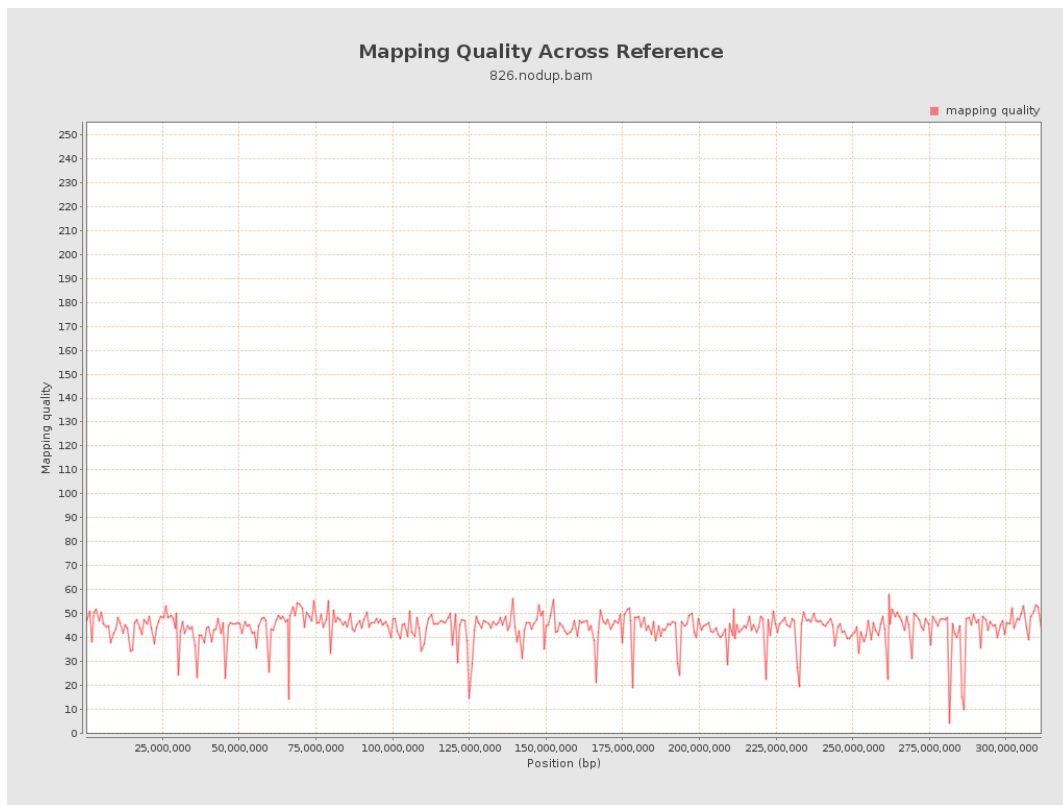
10. Results : Mapped Reads Clipping Profile



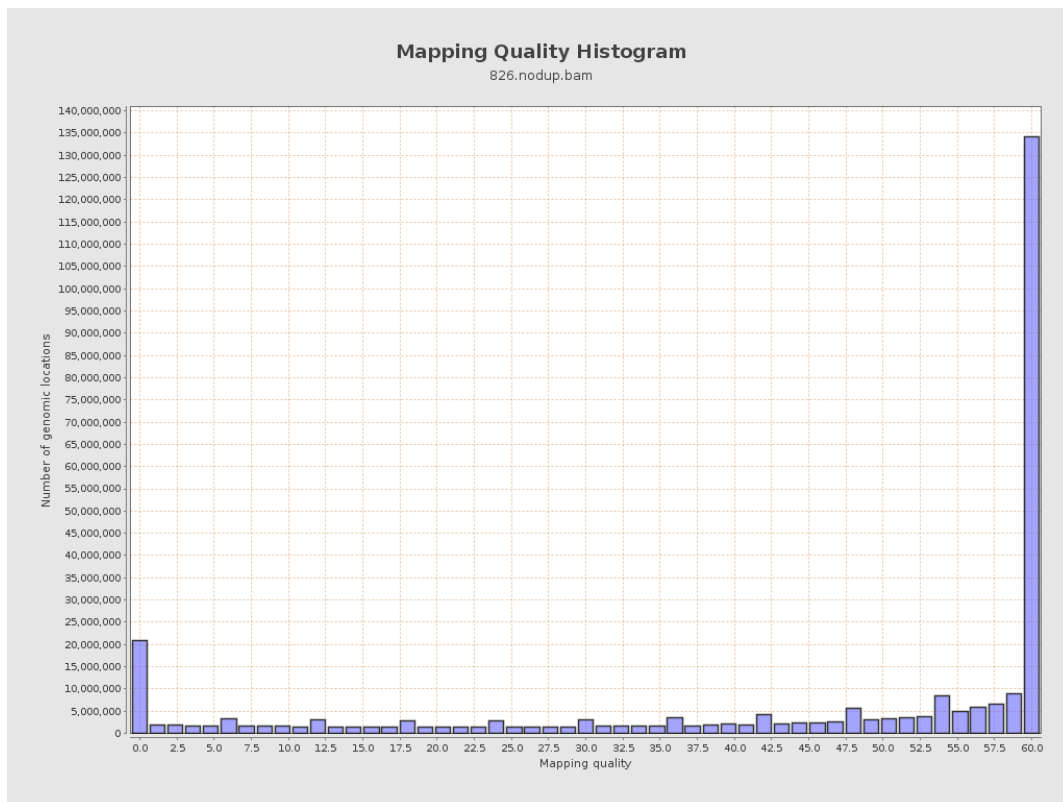
11. Results : Homopolymer Indels



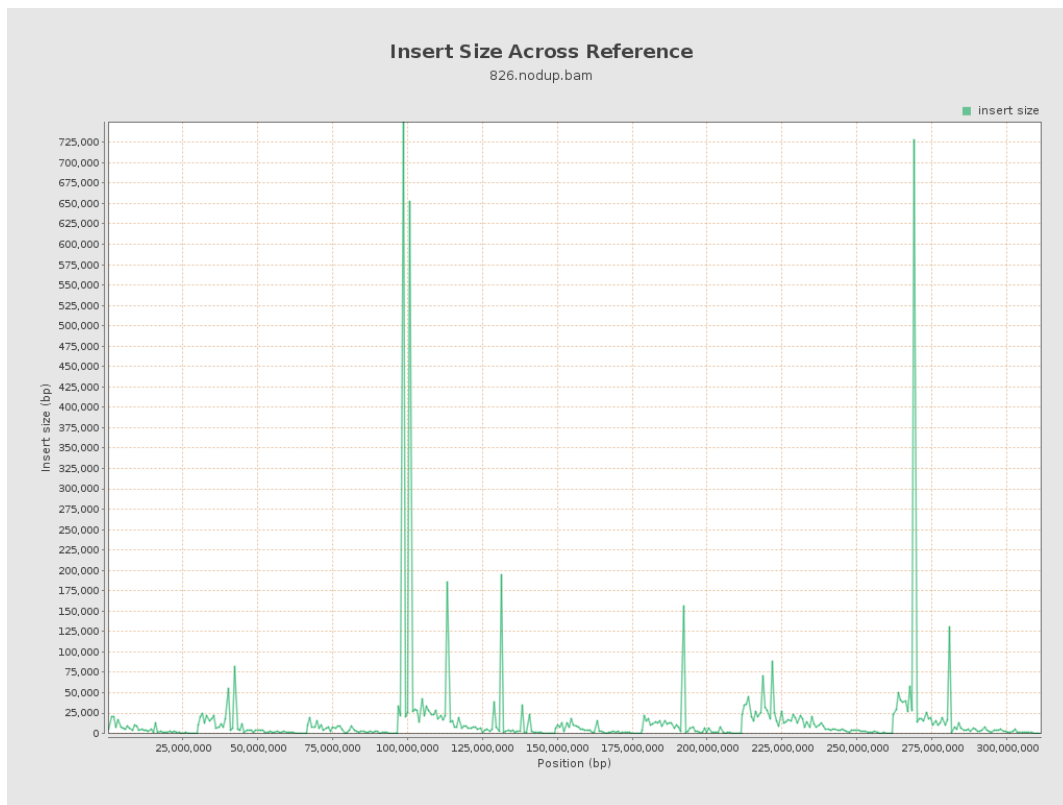
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

