Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:27:38



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/506 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 506 .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:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\text{sample} /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ. v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_275/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_275_S356_L003 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_275/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_275_S356_L003 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400



Analysis date:	Mon May 29 21:27:38 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	58,575,380
Mapped reads	51,422,805 / 87.79%
Unmapped reads	7,152,575 / 12.21%
Mapped paired reads	51,422,805 / 87.79%
Mapped reads, first in pair	25,743,788 / 43.95%
Mapped reads, second in pair	25,679,017 / 43.84%
Mapped reads, both in pair	50,316,398 / 85.9%
Mapped reads, singletons	1,106,407 / 1.89%
Read min/max/mean length	30 / 151 / 148.06
Duplicated reads (flagged)	7,011,129 / 11.97%
Clipped reads	12,513,828 / 21.36%

2.2. ACGT Content

Number/percentage of A's	2,170,859,593 / 30.78%		
Number/percentage of C's	1,356,811,156 / 19.24%		
Number/percentage of T's	2,168,220,645 / 30.74%		
Number/percentage of G's	1,357,882,223 / 19.25%		
Number/percentage of N's	25,562 / 0%		
GC Percentage	38.49%		

2.3. Coverage



Mean	22.6939
Standard Deviation	202.9563

2.4. Mapping Quality

Many Manning of Oscality	10.54
Mean Mapping Quality	43.54

2.5. Insert size

Mean	234,603.53	
Standard Deviation	2,285,909.25	
P25/Median/P75	308 / 408 / 532	

2.6. Mismatches and indels

General error rate	2.39%
Mismatches	155,120,655
Insertions	4,888,945
Mapped reads with at least one insertion	8.54%
Deletions	5,016,844
Mapped reads with at least one deletion	8.65%
Homopolymer indels	56.48%

2.7. Chromosome stats

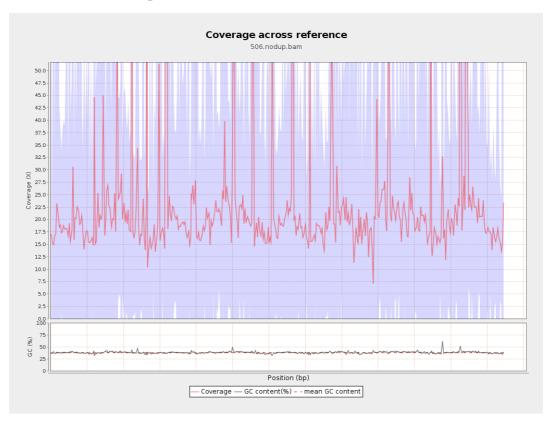
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	541028258	18.2015	71.5765



LT669789.1	36598175	893662867	24.4182	219.56
LT669790.1	30422129	734048397	24.1288	202.6402
LT669791.1	52758100	1193774643	22.6273	201.4266
LT669792.1	28376109	633389261	22.3212	238.0031
LT669793.1	33388210	704190964	21.091	110.7994
LT669794.1	50579949	1131745300	22.3754	199.4358
LT669795.1	49795044	1240528936	24.9127	265.1354

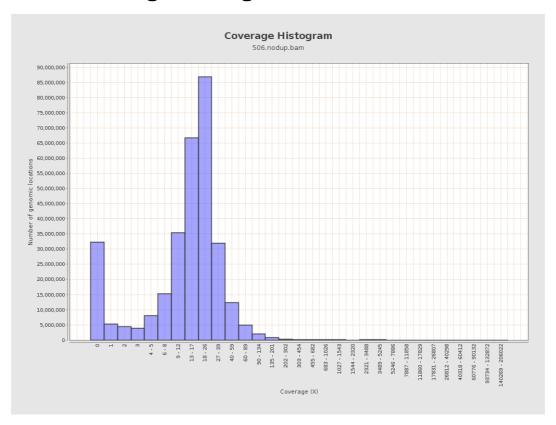


3. Results: Coverage across reference



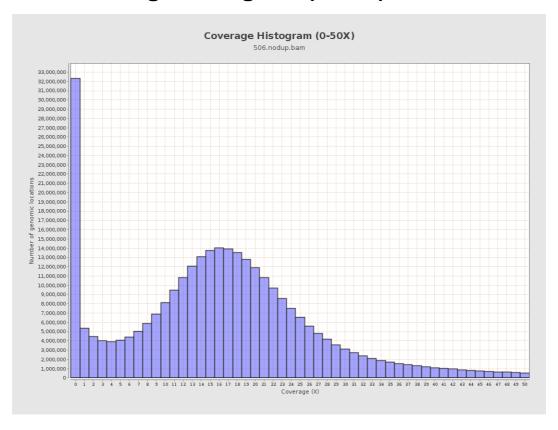


4. Results : Coverage Histogram



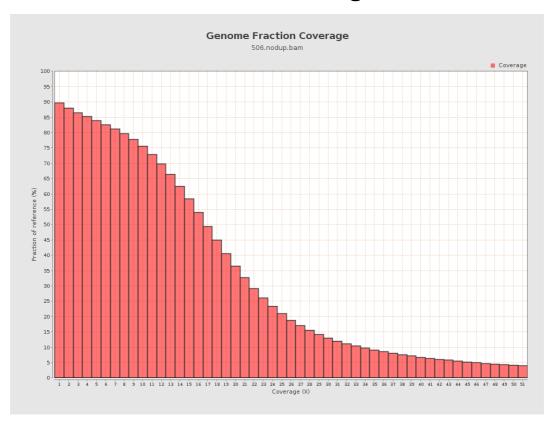


5. Results: Coverage Histogram (0-50X)



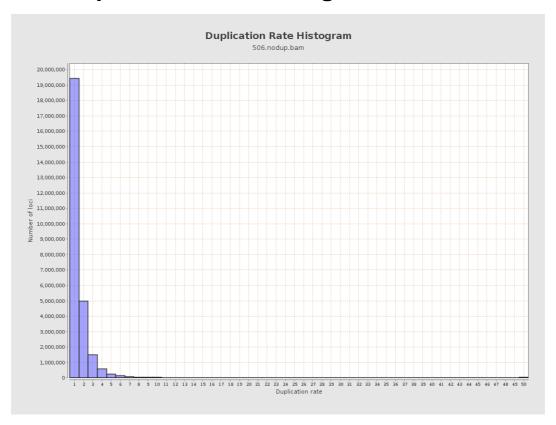


6. Results : Genome Fraction Coverage





7. Results : Duplication Rate Histogram



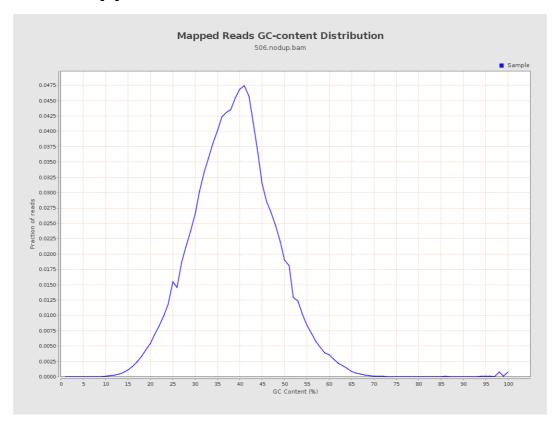


8. Results: Mapped Reads Nucleotide Content



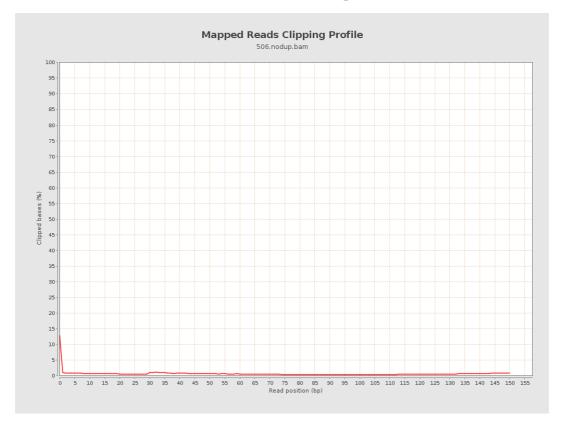


9. Results: Mapped Reads GC-content Distribution



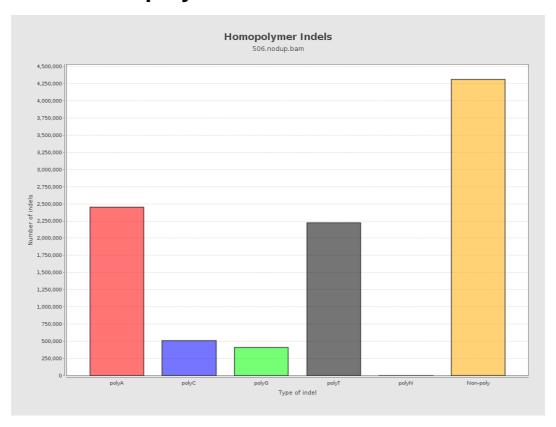


10. Results: Mapped Reads Clipping Profile



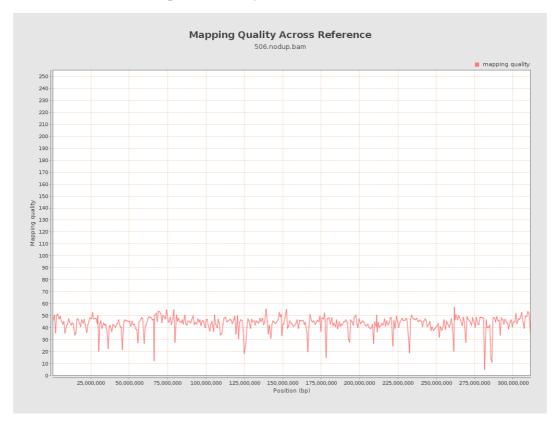


11. Results : Homopolymer Indels



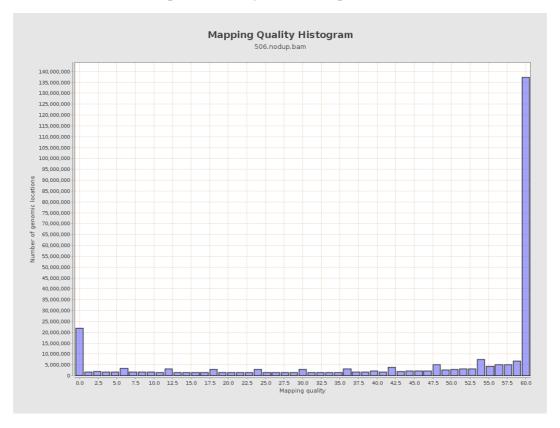


12. Results: Mapping Quality Across Reference



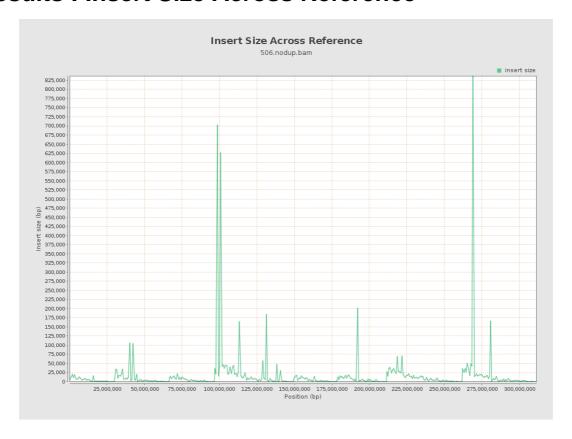


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

