Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:40:05



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/420 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 420 .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_148/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_148_S238_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_148/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_148_S238_L002 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400



Analysis date:	Mon May 29 21:40:04 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	90,239,515
Mapped reads	85,991,268 / 95.29%
Unmapped reads	4,248,247 / 4.71%
Mapped paired reads	85,991,268 / 95.29%
Mapped reads, first in pair	43,075,147 / 47.73%
Mapped reads, second in pair	42,916,121 / 47.56%
Mapped reads, both in pair	84,579,653 / 93.73%
Mapped reads, singletons	1,411,615 / 1.56%
Read min/max/mean length	30 / 151 / 148.12
Duplicated reads (flagged)	14,545,171 / 16.12%
Clipped reads	18,429,519 / 20.42%

2.2. ACGT Content

Number/percentage of A's	3,704,943,250 / 30.91%
Number/percentage of C's	2,288,800,269 / 19.1%
Number/percentage of T's	3,707,857,776 / 30.94%
Number/percentage of G's	2,283,352,688 / 19.05%
Number/percentage of N's	50,964 / 0%
GC Percentage	38.15%

2.3. Coverage



Mean	38.557
Standard Deviation	272.1824

2.4. Mapping Quality

Mean Mapping Quality	44.43

2.5. Insert size

Mean	211,086.45	
Standard Deviation	2,172,244.58	
P25/Median/P75	312 / 409 / 538	

2.6. Mismatches and indels

General error rate	2.22%
Mismatches	244,344,107
Insertions	7,874,355
Mapped reads with at least one insertion	8.25%
Deletions	8,120,579
Mapped reads with at least one deletion	8.4%
Homopolymer indels	56.44%

2.7. Chromosome stats

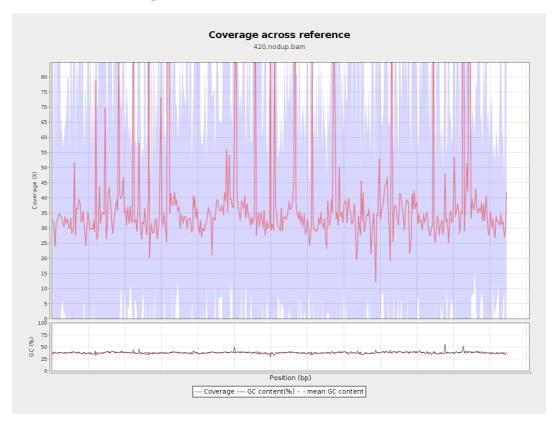
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	962091179	32.3671	77.1682



LT669789.1	36598175	1469062378	40.1403	320.4732
LT669790.1	30422129	1230095270	40.4342	240.4203
LT669791.1	52758100	1980389690	37.5372	220.9686
LT669792.1	28376109	1078450191	38.0056	299.0166
LT669793.1	33388210	1210526202	36.2561	207.8397
LT669794.1	50579949	1848228855	36.5407	240.5329
LT669795.1	49795044	2237145231	44.9271	398.5023

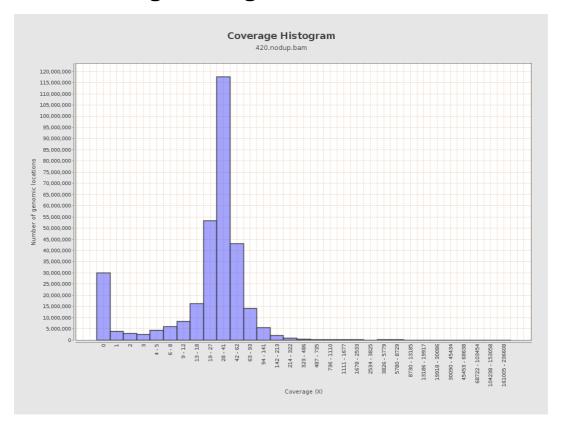


3. Results : Coverage across reference



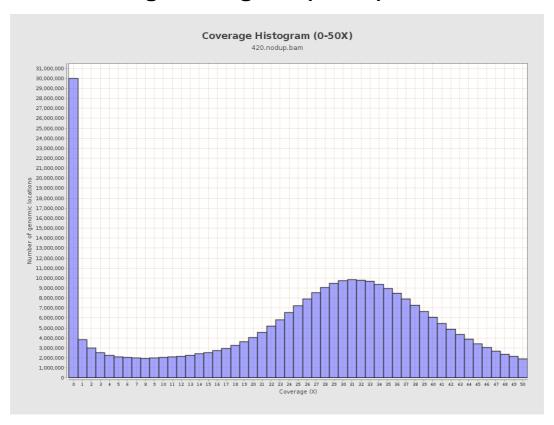


4. Results: Coverage Histogram



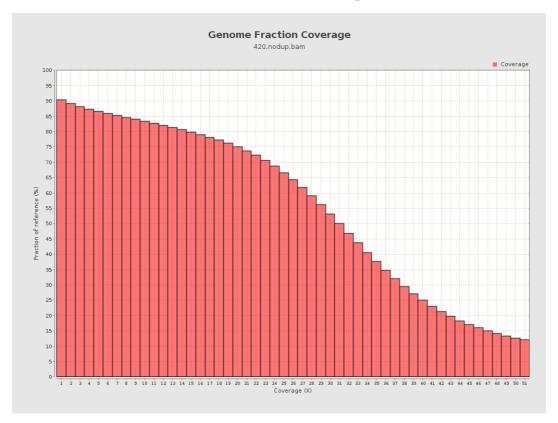


5. Results: Coverage Histogram (0-50X)



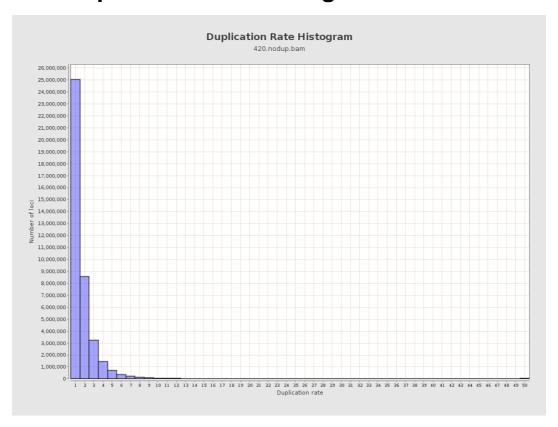


6. Results : Genome Fraction Coverage





7. Results: Duplication Rate Histogram



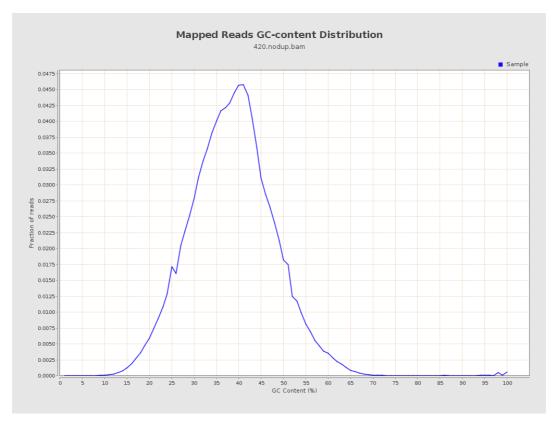


8. Results: Mapped Reads Nucleotide Content



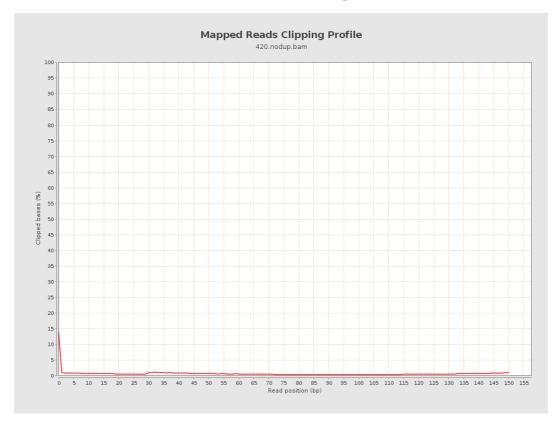


9. Results: Mapped Reads GC-content Distribution



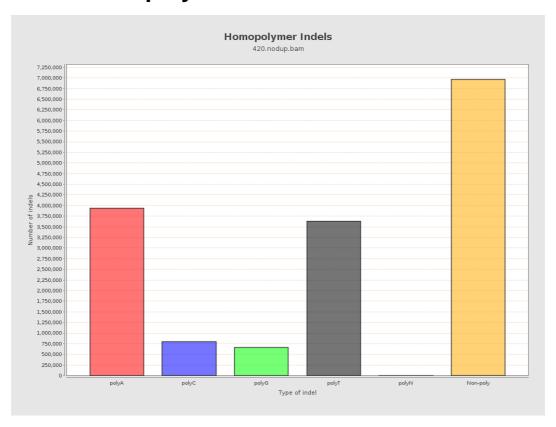


10. Results: Mapped Reads Clipping Profile





11. Results: Homopolymer Indels



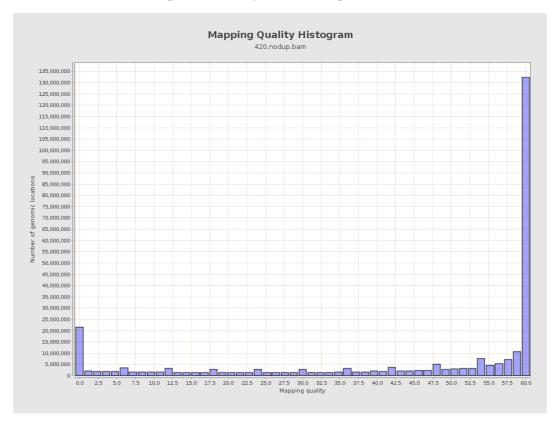


12. Results: Mapping Quality Across Reference



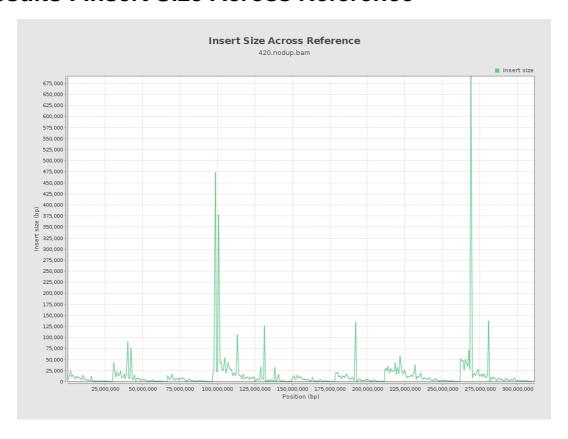


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

