Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:22:02



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/137 1 .nodup.bam -nw 400 -hm 3

1.2. Alignment

Dwa (0.7.17-r1188)	BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1371 .nodup.bam
reads: Command line: bwa mem -M -t 8 -R @RG\tlD:\$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_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004 _R2_001.fastq.gz	Program:	bwa (0.7.17-r1188)
@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_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004 _R2_001.fastq.gz	, , , , , , , , , , , , , , , , , , , ,	no
Size of a homopolymer:	Command line:	@RG\tID:\$unit\tPL:IIIumina\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_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_579/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_579_S146_L004
	Size of a homopolymer:	3



Number of windows:	400
Analysis date:	Mon May 29 21:22:01 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	38,047,518
Mapped reads	35,725,585 / 93.9%
Unmapped reads	2,321,933 / 6.1%
Mapped paired reads	35,725,585 / 93.9%
Mapped reads, first in pair	17,920,311 / 47.1%
Mapped reads, second in pair	17,805,274 / 46.8%
Mapped reads, both in pair	34,965,770 / 91.9%
Mapped reads, singletons	759,815 / 2%
Read min/max/mean length	30 / 151 / 148.27
Duplicated reads (flagged)	4,747,435 / 12.48%
Clipped reads	8,247,379 / 21.68%

2.2. ACGT Content

Number/percentage of A's	1,527,804,344 / 30.83%		
Number/percentage of C's	950,307,082 / 19.17%		
Number/percentage of T's	1,531,385,775 / 30.9%		
Number/percentage of G's	946,578,601 / 19.1%		
Number/percentage of N's	34,633 / 0%		
GC Percentage	38.27%		

2.3. Coverage



Mean	15.9438
Standard Deviation	119.739

2.4. Mapping Quality

Mean Mapping Quality	44.16

2.5. Insert size

Mean	218,595.6
Standard Deviation	2,219,691.54
P25/Median/P75	324 / 420 / 538

2.6. Mismatches and indels

General error rate	2.55%
Mismatches	117,336,871
Insertions	3,287,094
Mapped reads with at least one insertion	8.27%
Deletions	3,346,595
Mapped reads with at least one deletion	8.32%
Homopolymer indels	56.07%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	402583227	13.5439	37.492



LT669789.1	36598175	588025216	16.0671	122.5736
LT669790.1	30422129	522773716	17.184	123.7081
LT669791.1	52758100	821053675	15.5626	107.9909
LT669792.1	28376109	449070646	15.8257	145.2816
LT669793.1	33388210	496396430	14.8674	85.1019
LT669794.1	50579949	746219269	14.7533	98.274
LT669795.1	49795044	942636156	18.9303	171.5629

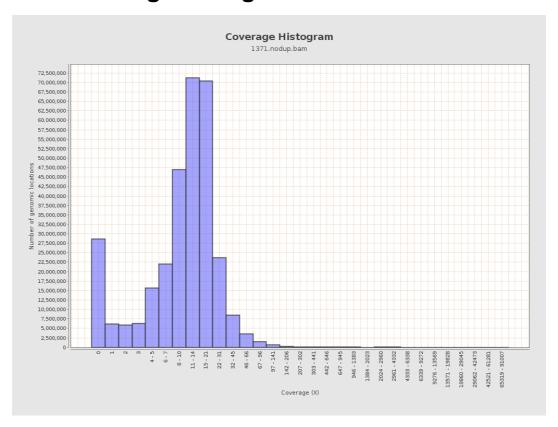


3. Results : Coverage across reference



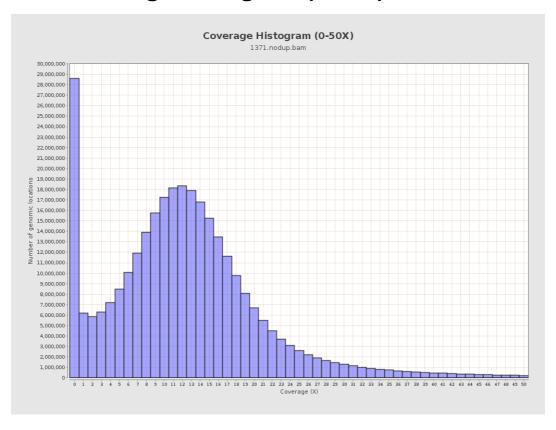


4. Results: Coverage Histogram



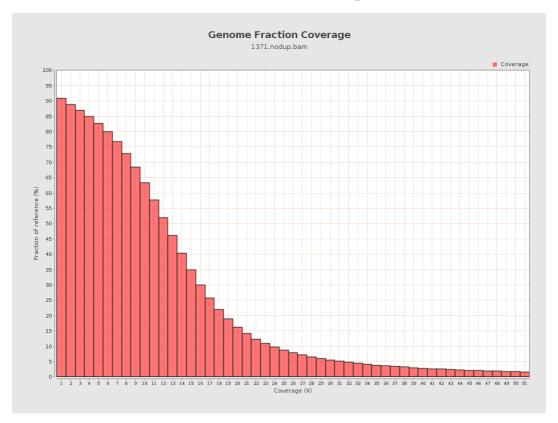


5. Results: Coverage Histogram (0-50X)



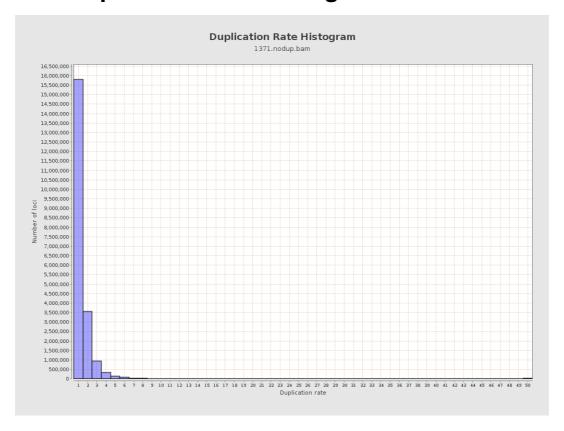


6. Results : Genome Fraction Coverage



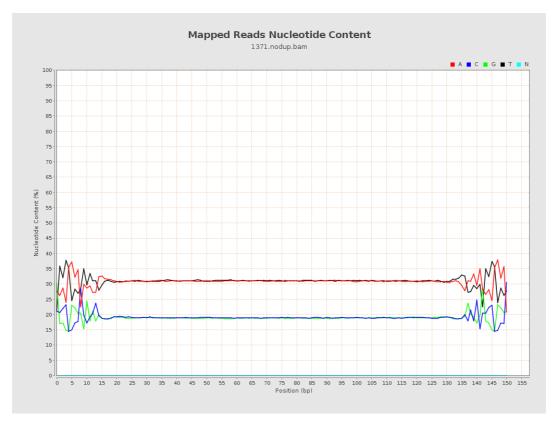


7. Results: Duplication Rate Histogram



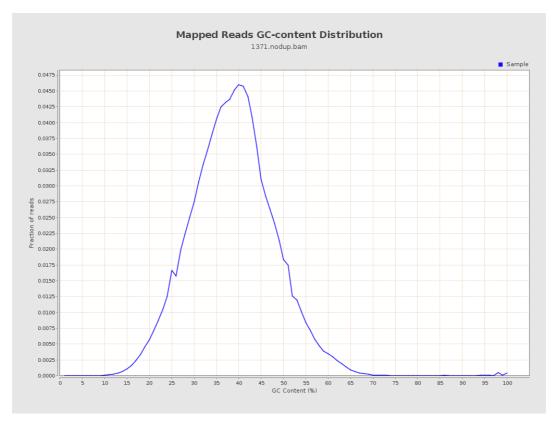


8. Results: Mapped Reads Nucleotide Content



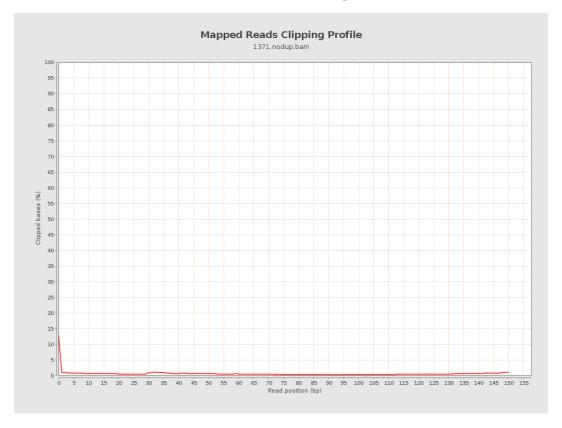


9. Results: Mapped Reads GC-content Distribution



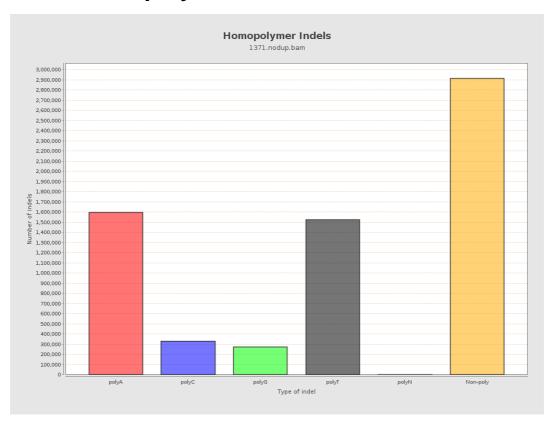


10. Results: Mapped Reads Clipping Profile





11. Results: Homopolymer Indels



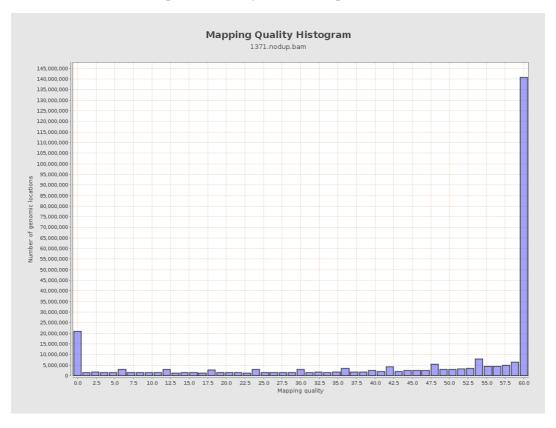


12. Results: Mapping Quality Across Reference



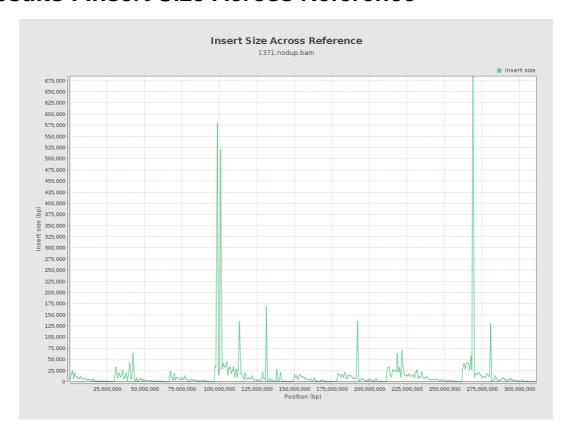


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

