Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:25:53



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/148 3 .nodup.bam -nw 400 -hm 3

1.2. Alignment

Description	BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1483 .nodup.bam
reads: Downward line: Downward line	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_107/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_107_S197_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_107/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_107_S197_L002 _R2_001.fastq.gz	' ' ' ' ' '	no
Size of a homopolymer: 3	Command line:	@RG\tID:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\sample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ. v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_107/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_107_S197_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_107/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_107_S197_L002
y	Size of a homopolymer:	3



CENTRO DE INVESTIGA				
Number of windows:	400			
Analysis date:	Mon May 29 21:25:52 CEST 2023			
Draw chromosome limits:	no			
Skip duplicate alignments:	no			



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	50,793,157
Mapped reads	46,837,794 / 92.21%
Unmapped reads	3,955,363 / 7.79%
Mapped paired reads	46,837,794 / 92.21%
Mapped reads, first in pair	23,459,304 / 46.19%
Mapped reads, second in pair	23,378,490 / 46.03%
Mapped reads, both in pair	45,538,345 / 89.65%
Mapped reads, singletons	1,299,449 / 2.56%
Read min/max/mean length	30 / 151 / 148.06
Duplicated reads (flagged)	8,250,008 / 16.24%
Clipped reads	10,789,600 / 21.24%

2.2. ACGT Content

Number/percentage of A's	1,998,395,214 / 30.99%
Number/percentage of C's	1,224,572,408 / 18.99%
Number/percentage of T's	2,001,697,270 / 31.04%
Number/percentage of G's	1,223,829,926 / 18.98%
Number/percentage of N's	27,682 / 0%
GC Percentage	37.97%

2.3. Coverage



Mean	20.7468
Standard Deviation	170.3844

2.4. Mapping Quality

Mean Mapping Quality	44.52

2.5. Insert size

Mean	255,652.3
Standard Deviation	2,442,900.9
P25/Median/P75	329 / 429 / 557

2.6. Mismatches and indels

General error rate	2.3%
Mismatches	135,216,452
Insertions	4,618,826
Mapped reads with at least one insertion	8.8%
Deletions	4,511,716
Mapped reads with at least one deletion	8.51%
Homopolymer indels	57.08%

2.7. Chromosome stats

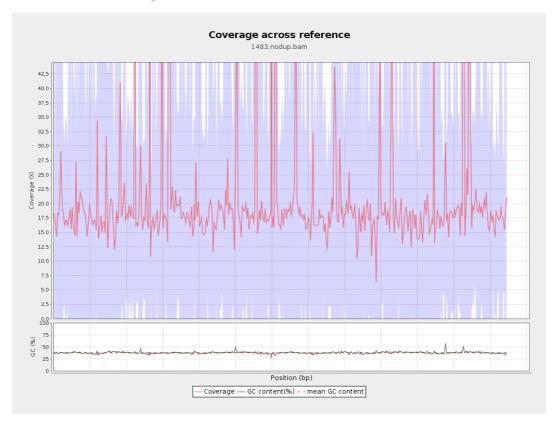
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	541574015	18.2199	73.4355



LT669789.1	36598175	753320986	20.5836	185.1249
LT669790.1	30422129	753802471	24.7781	233.6084
LT669791.1	52758100	1061728520	20.1245	185.5611
LT669792.1	28376109	604140024	21.2904	166.0053
LT669793.1	33388210	633055479	18.9604	90.0033
LT669794.1	50579949	962045348	19.0203	140.3046
LT669795.1	49795044	1155921338	23.2136	205.6744

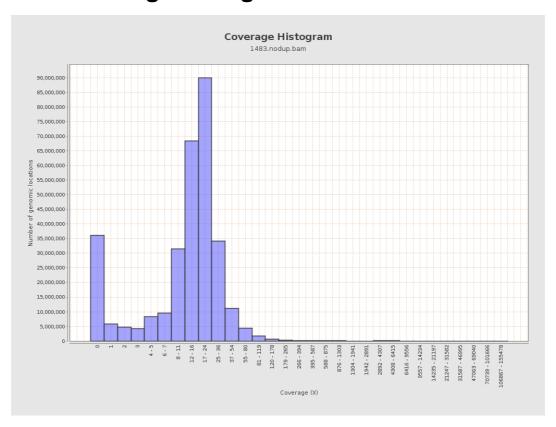


3. Results: Coverage across reference



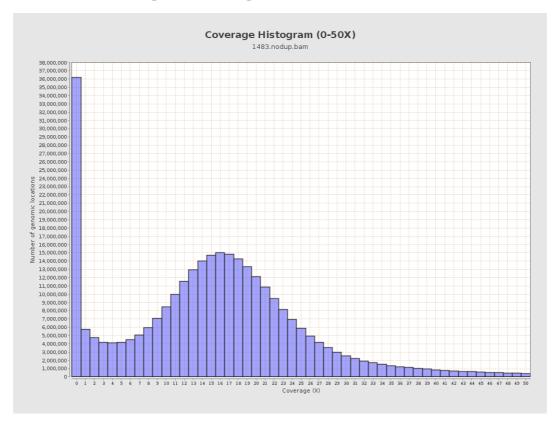


4. Results : Coverage Histogram



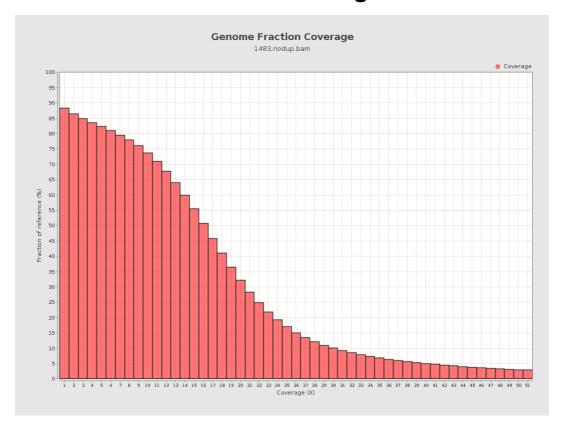


5. Results: Coverage Histogram (0-50X)



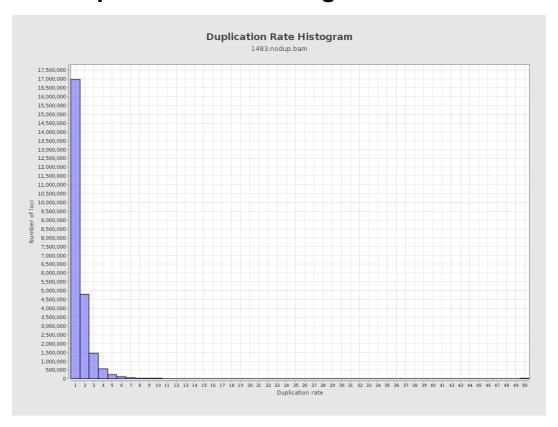


6. Results : Genome Fraction Coverage



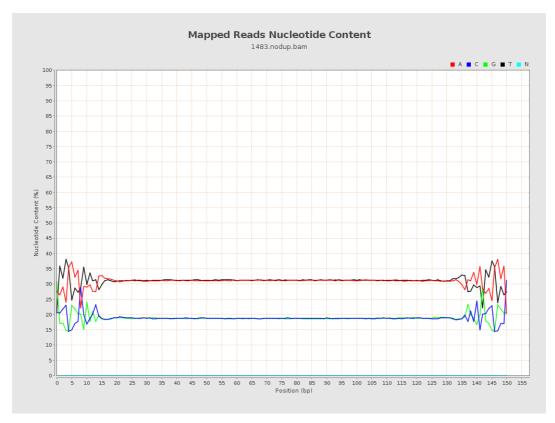


7. Results: Duplication Rate Histogram



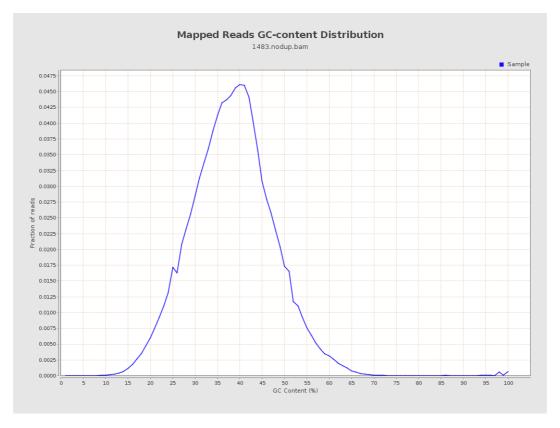


8. Results: Mapped Reads Nucleotide Content



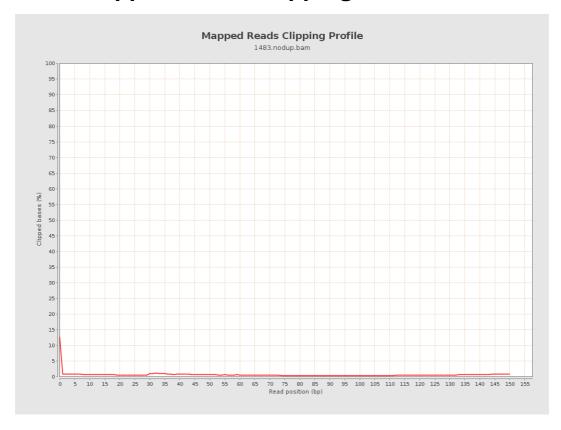


9. Results: Mapped Reads GC-content Distribution



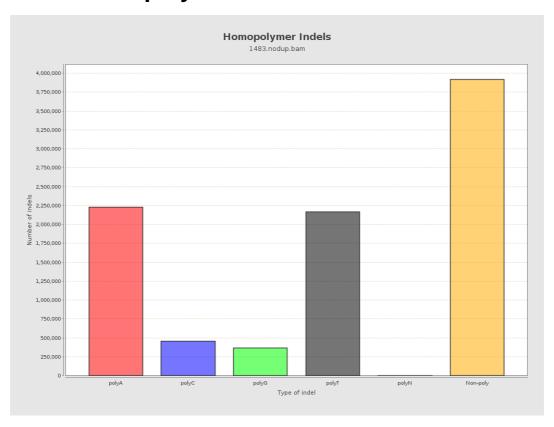


10. Results: Mapped Reads Clipping Profile



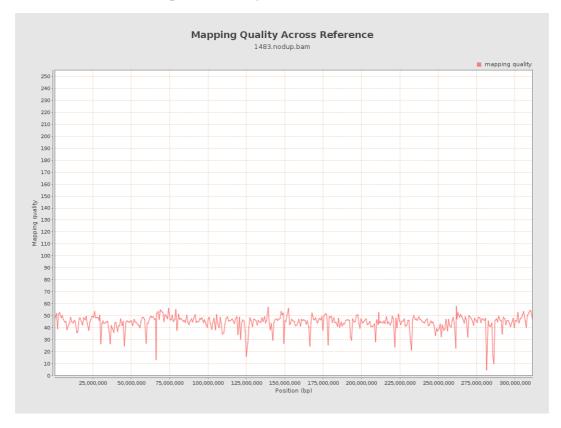


11. Results : Homopolymer Indels



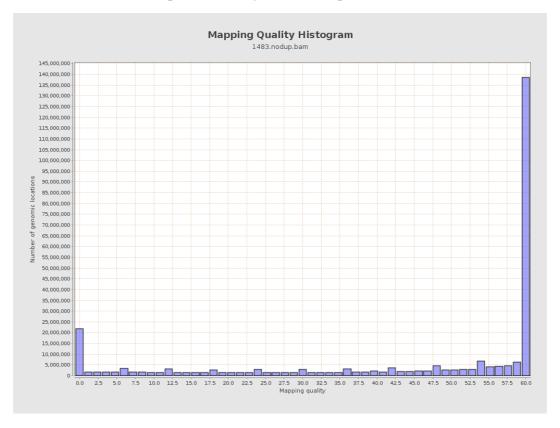


12. Results: Mapping Quality Across Reference



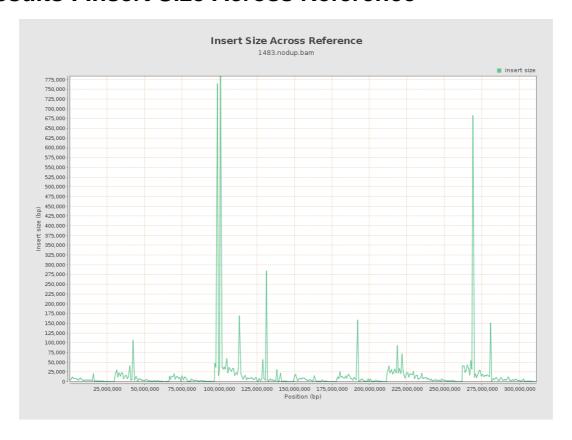


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

