Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:33:31



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/142 4 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1424 .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:IIIumina\tLB:LibA\t SM:\unit\tPL:IIIumina\tLB:LibA\t SM:\unit\tPL:IIIumina\tLB:LibA\t SM:\unit\tSample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ. v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_112/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_112_S202_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_112/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_112_S202_L002 _R2_001.fastq.gz
Size of a homopolymer:	3



Number of windows:	400
Analysis date:	Mon May 29 21:33:30 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	74,804,060
Mapped reads	69,225,725 / 92.54%
Unmapped reads	5,578,335 / 7.46%
Mapped paired reads	69,225,725 / 92.54%
Mapped reads, first in pair	34,662,495 / 46.34%
Mapped reads, second in pair	34,563,230 / 46.21%
Mapped reads, both in pair	67,667,200 / 90.46%
Mapped reads, singletons	1,558,525 / 2.08%
Read min/max/mean length	30 / 151 / 148.12
Duplicated reads (flagged)	11,227,512 / 15.01%
Clipped reads	15,394,652 / 20.58%

2.2. ACGT Content

Number/percentage of A's	2,964,938,331 / 30.89%	
Number/percentage of C's	1,833,274,389 / 19.1%	
Number/percentage of T's	2,967,799,901 / 30.92%	
Number/percentage of G's	1,831,499,202 / 19.08%	
Number/percentage of N's	39,951 / 0%	
GC Percentage	38.18%	

2.3. Coverage



Mean	30.8778
Standard Deviation	239.3902

2.4. Mapping Quality

Mean Mapping Quality	44.01

2.5. Insert size

Mean	238,441.95	
Standard Deviation	2,318,987.91	
P25/Median/P75	323 / 422 / 554	

2.6. Mismatches and indels

General error rate	2.32%
Mismatches	204,571,953
Insertions	6,631,081
Mapped reads with at least one insertion	8.59%
Deletions	6,682,372
Mapped reads with at least one deletion	8.56%
Homopolymer indels	56.55%

2.7. Chromosome stats

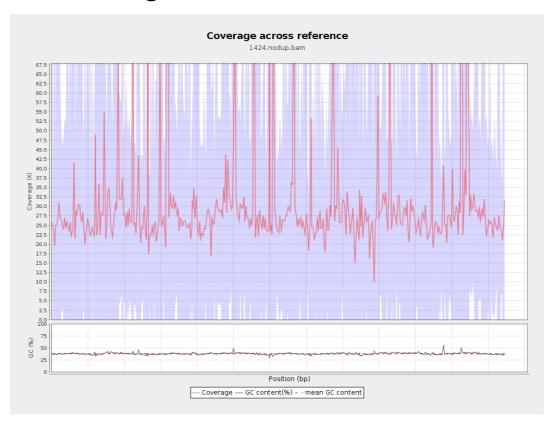
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	760948714	25.6002	79.4392



LT669789.1	36598175	1166962759	31.8858	264.2547
LT669790.1	30422129	1043806675	34.3108	270.5594
LT669791.1	52758100	1602171854	30.3683	221.3165
LT669792.1	28376109	873773556	30.7926	262.5726
LT669793.1	33388210	952512614	28.5284	224.0727
LT669794.1	50579949	1478207640	29.2252	197.5619
LT669795.1	49795044	1744442178	35.0324	307.0866

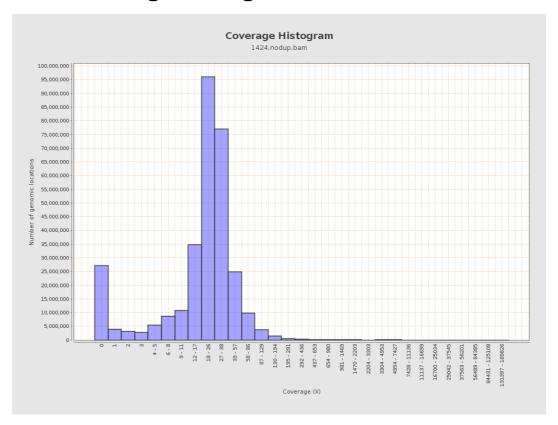


3. Results: Coverage across reference



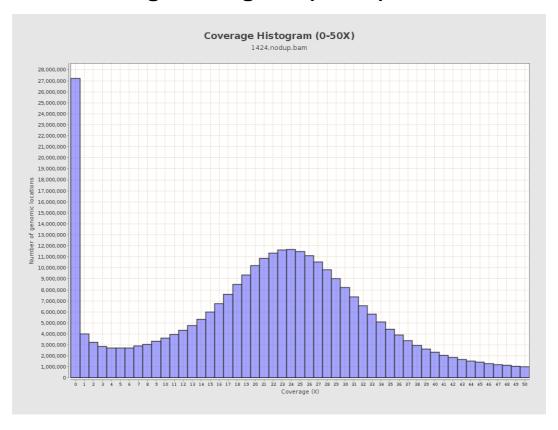


4. Results: Coverage Histogram



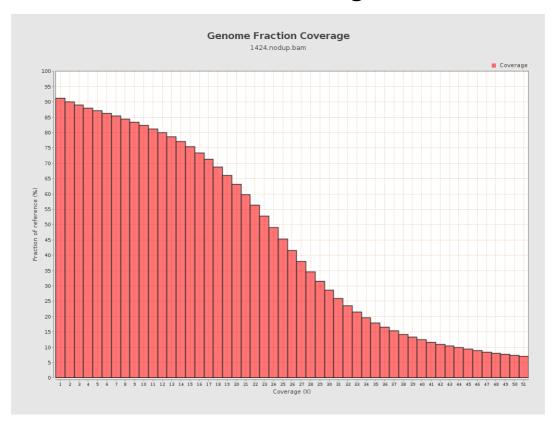


5. Results: Coverage Histogram (0-50X)



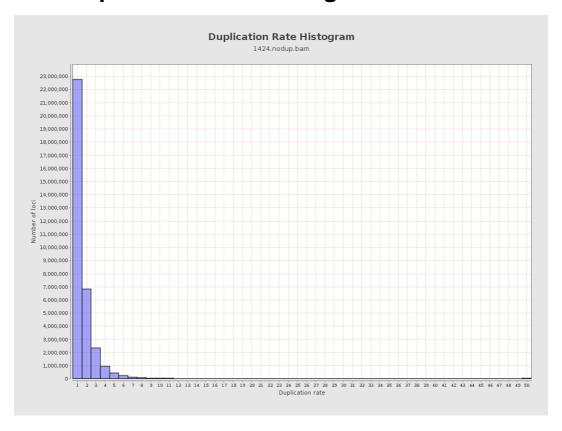


6. Results : Genome Fraction Coverage





7. Results: Duplication Rate Histogram



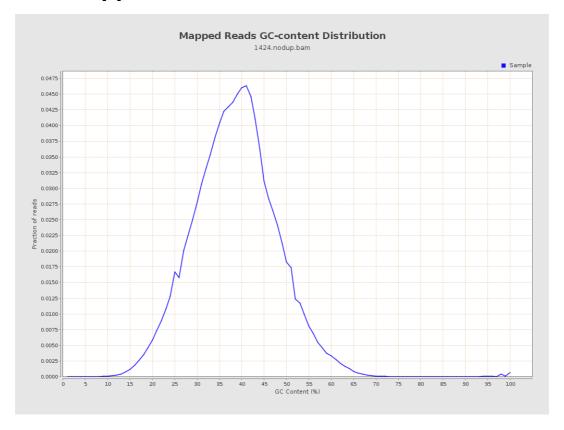


8. Results: Mapped Reads Nucleotide Content



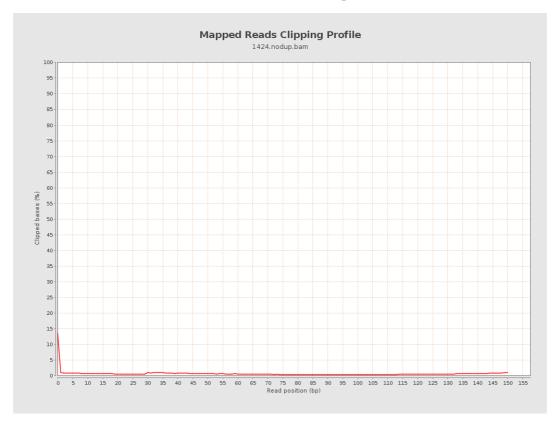


9. Results: Mapped Reads GC-content Distribution



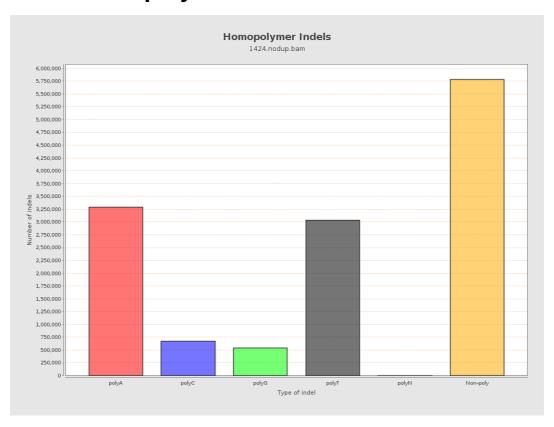


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



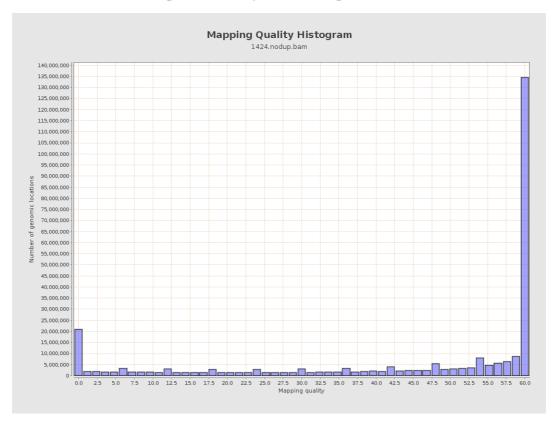


12. Results: Mapping Quality Across Reference



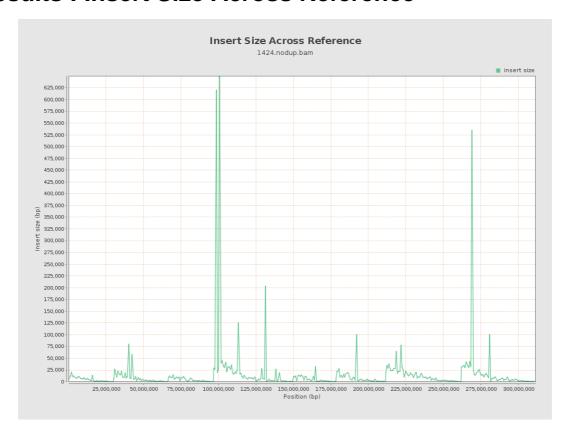


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

