Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:28:51



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/104 5 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1045 .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_119/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_119_S209_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_119/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_119_S209_L002 _R2_001.fastq.gz
Size of a homopolymer:	3



Number of windows:	400
Analysis date:	Mon May 29 21:28:51 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	61,046,750
Mapped reads	55,381,765 / 90.72%
Unmapped reads	5,664,985 / 9.28%
Mapped paired reads	55,381,765 / 90.72%
Mapped reads, first in pair	27,710,569 / 45.39%
Mapped reads, second in pair	27,671,196 / 45.33%
Mapped reads, both in pair	53,627,792 / 87.85%
Mapped reads, singletons	1,753,973 / 2.87%
Read min/max/mean length	30 / 151 / 148.09
Duplicated reads (flagged)	9,709,340 / 15.9%
Clipped reads	13,136,963 / 21.52%

2.2. ACGT Content

Number/percentage of A's	2,346,040,040 / 30.89%		
Number/percentage of C's	1,450,619,841 / 19.1%		
Number/percentage of T's	2,349,297,910 / 30.93%		
Number/percentage of G's	1,449,741,008 / 19.09%		
Number/percentage of N's	32,389 / 0%		
GC Percentage	38.18%		

2.3. Coverage



Mean	24.4386
Standard Deviation	224.9114

2.4. Mapping Quality

Mean Mapping Quality	43.99
Micari Mapping addity	40.00

2.5. Insert size

Mean	262,267.65
Standard Deviation	2,464,856.73
P25/Median/P75	318 / 416 / 546

2.6. Mismatches and indels

General error rate	2.39%
Mismatches	165,976,083
Insertions	5,659,845
Mapped reads with at least one insertion	9.1%
Deletions	5,425,484
Mapped reads with at least one deletion	8.66%
Homopolymer indels	56.81%

2.7. Chromosome stats

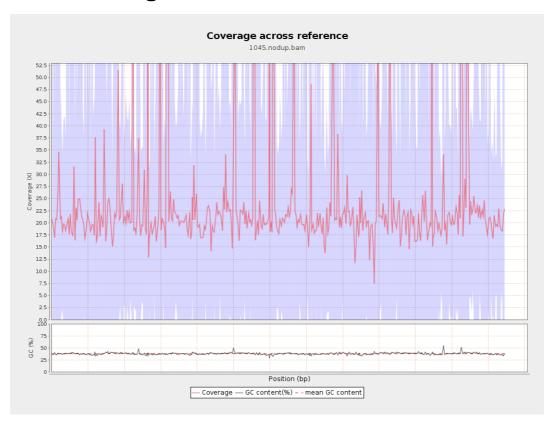
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	618361937	20.8032	97.0417



LT669789.1	36598175	895863575	24.4784	242.6949
LT669790.1	30422129	907853285	29.8419	323.4813
LT669791.1	52758100	1259383899	23.8709	252.2867
LT669792.1	28376109	701947519	24.7373	225.0888
LT669793.1	33388210	752581999	22.5404	143.709
LT669794.1	50579949	1138237554	22.5037	194.3186
LT669795.1	49795044	1341874307	26.9479	234.9393

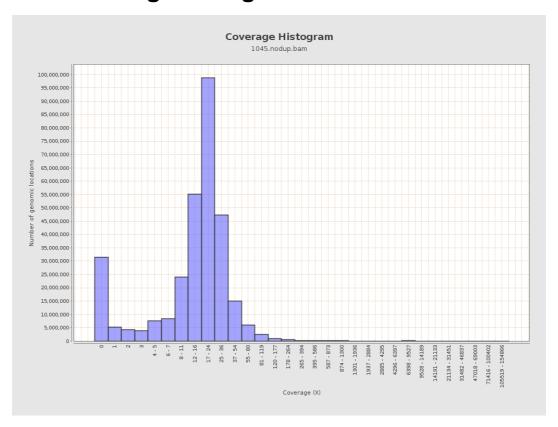


3. Results: Coverage across reference



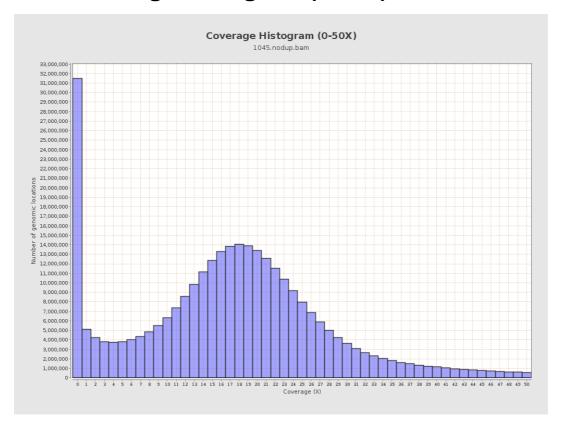


4. Results: Coverage Histogram



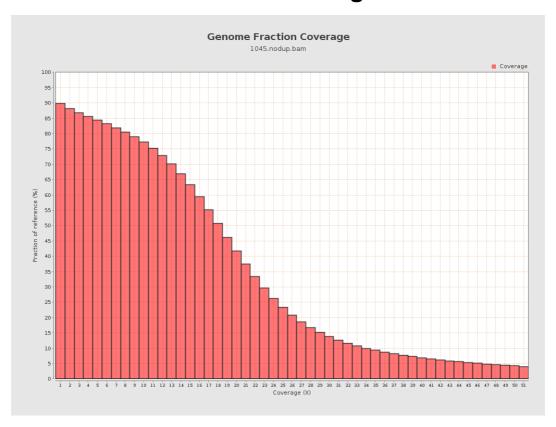


5. Results: Coverage Histogram (0-50X)



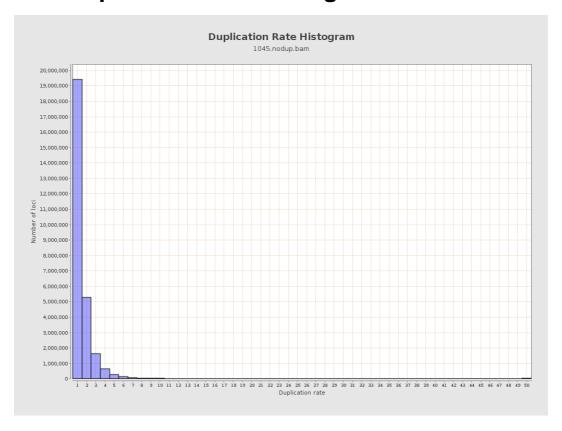


6. Results : Genome Fraction Coverage





7. Results : Duplication Rate Histogram



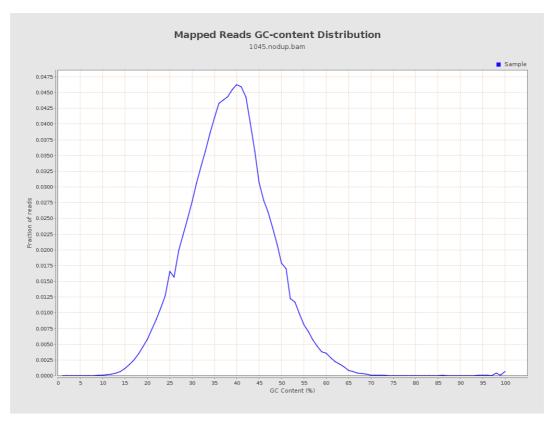


8. Results: Mapped Reads Nucleotide Content



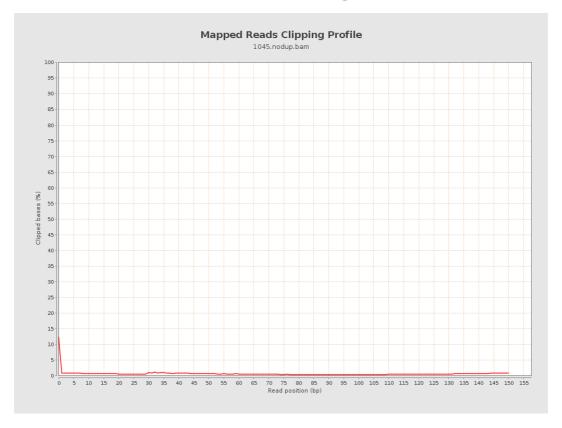


9. Results: Mapped Reads GC-content Distribution



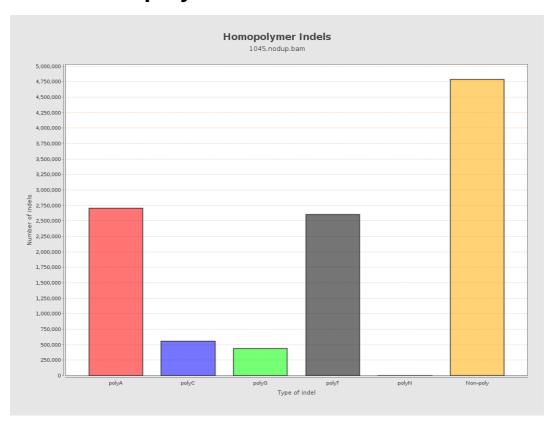


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



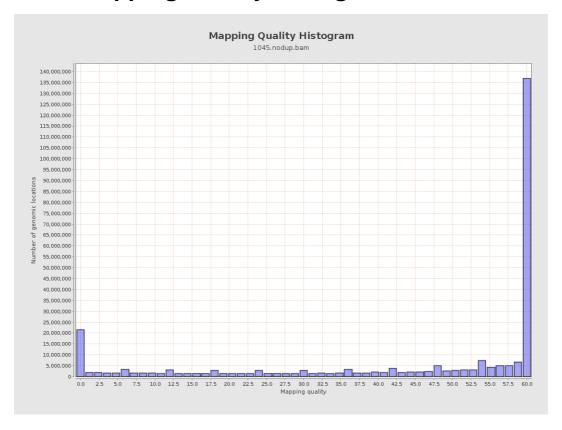


12. Results: Mapping Quality Across Reference



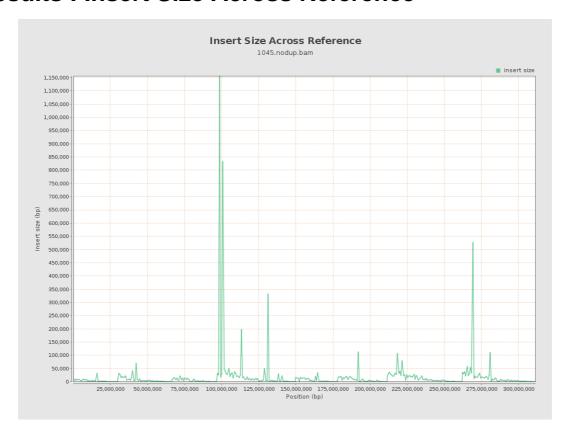


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

