Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:25:08



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/111 1 .nodup.bam -nw 400 -hm 3

1.2. Alignment

SM:\$sample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004 _R2_001.fastq.gz	BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1111 .nodup.bam
reads: bwa mem -M -t 8 -R	Program:	bwa (0.7.17-r1188)
@RG\tID:\$unit\tPL:Illumina\tLB:LibA\ SM:\$sample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004 _R2_001.fastq.gz	, , , , , , , , , , , , , , , , , , , ,	no
Size of a homopolymer:	Command line:	@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_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_570/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_570_S137_L004
	Size of a homopolymer:	3



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Number of windows:	400			
Analysis date:	Mon May 29 21:25:08 CEST 2023			
Draw chromosome limits:	no			
Skip duplicate alignments:	no			



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	48,337,431
Mapped reads	46,057,368 / 95.28%
Unmapped reads	2,280,063 / 4.72%
Mapped paired reads	46,057,368 / 95.28%
Mapped reads, first in pair	23,101,467 / 47.79%
Mapped reads, second in pair	22,955,901 / 47.49%
Mapped reads, both in pair	45,278,009 / 93.67%
Mapped reads, singletons	779,359 / 1.61%
Read min/max/mean length	30 / 151 / 148.15
Duplicated reads (flagged)	6,171,351 / 12.77%
Clipped reads	10,492,118 / 21.71%

2.2. ACGT Content

Number/percentage of A's	1,975,071,591 / 30.85%		
Number/percentage of C's	1,227,956,645 / 19.18%		
Number/percentage of T's	1,976,355,395 / 30.87%		
Number/percentage of G's	1,223,564,917 / 19.11%		
Number/percentage of N's	45,433 / 0%		
GC Percentage	38.29%		

2.3. Coverage



Mean	20.5981
Standard Deviation	165.1848

2.4. Mapping Quality

Mean Mapping Quality	43.89
Modif Mapping addity	10.00

2.5. Insert size

Mean	211,135.96
Standard Deviation	2,161,261.72
P25/Median/P75	324 / 421 / 542

2.6. Mismatches and indels

General error rate	2.53%
Mismatches	150,452,745
Insertions	4,189,453
Mapped reads with at least one insertion	8.22%
Deletions	4,387,615
Mapped reads with at least one deletion	8.47%
Homopolymer indels	55.71%

2.7. Chromosome stats

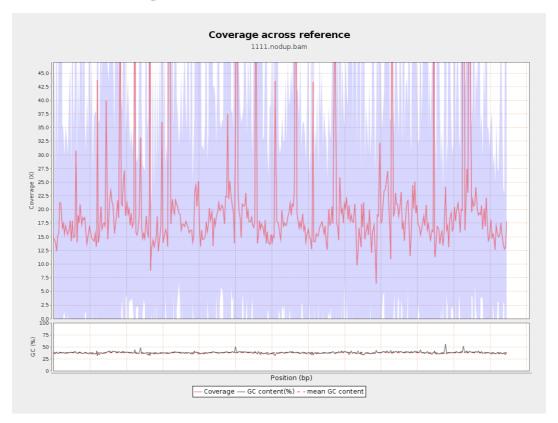
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	495438002	16.6678	58.033



LT669789.1	36598175	804558243	21.9836	195.7138
LT669790.1	30422129	633596447	20.8268	146.4123
LT669791.1	52758100	1079960676	20.47	159.0107
LT669792.1	28376109	565870142	19.9418	191.2467
LT669793.1	33388210	638585212	19.1261	88.6887
LT669794.1	50579949	1024659292	20.2582	181.1669
LT669795.1	49795044	1176553885	23.6279	203.0857

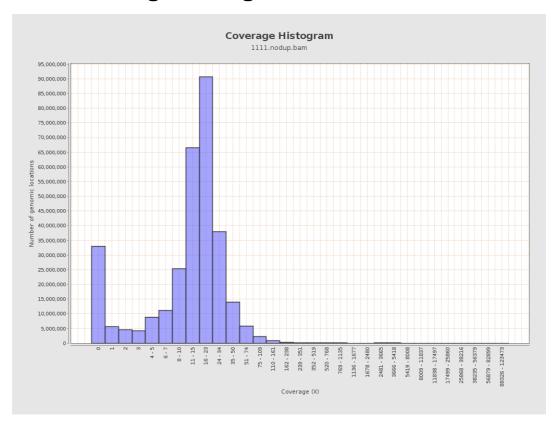


3. Results: Coverage across reference



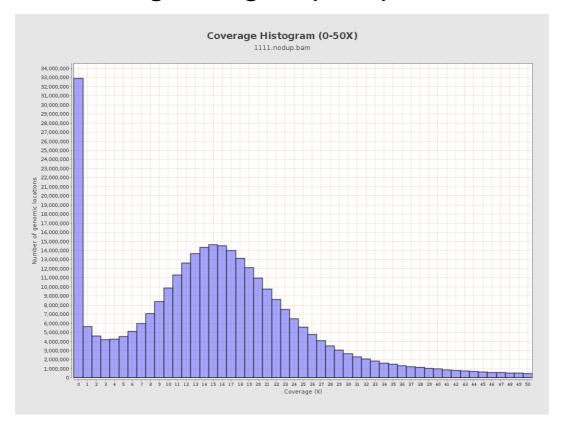


4. Results: Coverage Histogram



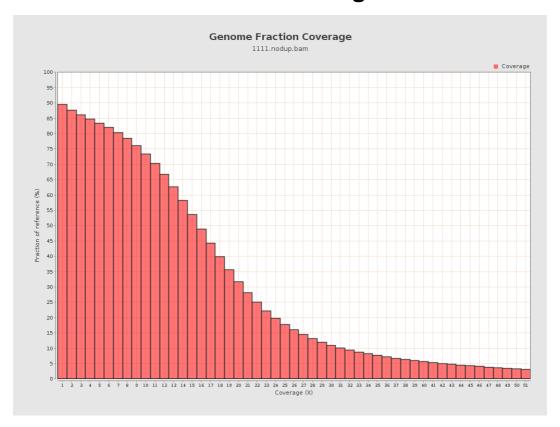


5. Results: Coverage Histogram (0-50X)



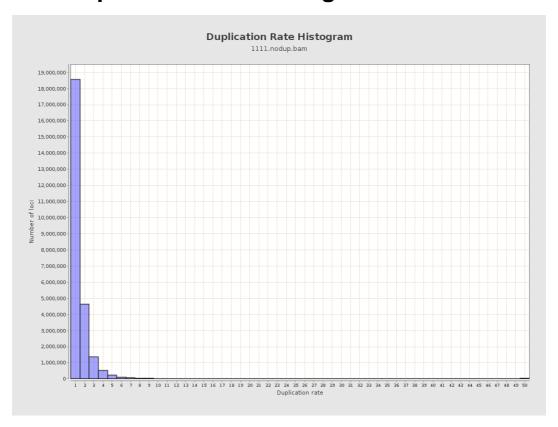


6. Results : Genome Fraction Coverage



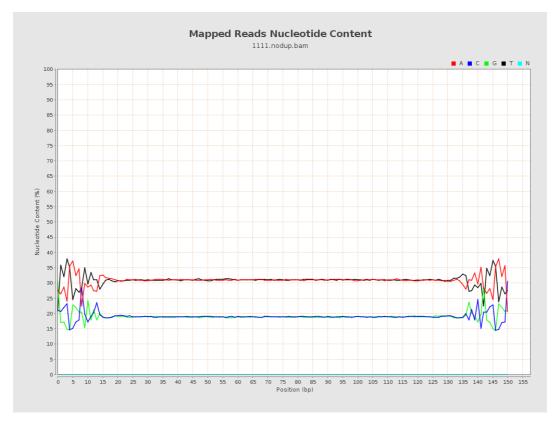


7. Results : Duplication Rate Histogram



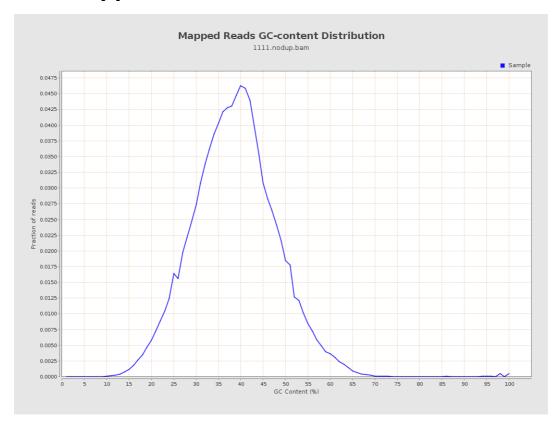


8. Results: Mapped Reads Nucleotide Content



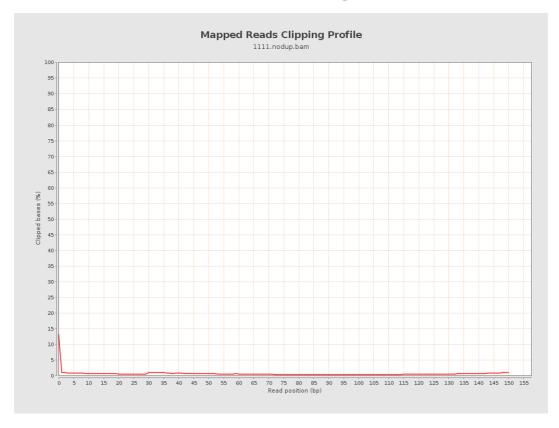


9. Results: Mapped Reads GC-content Distribution



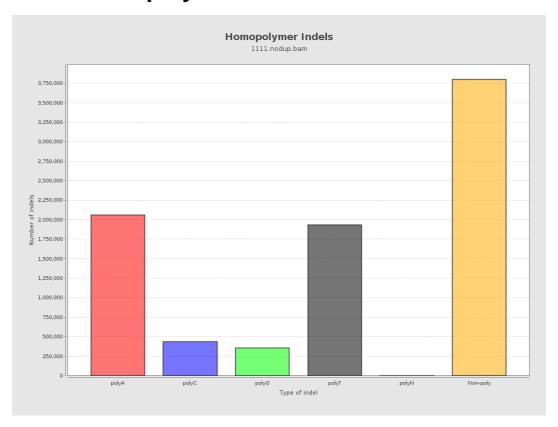


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



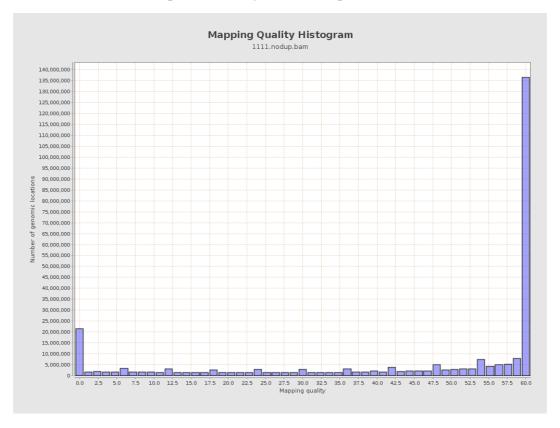


12. Results: Mapping Quality Across Reference



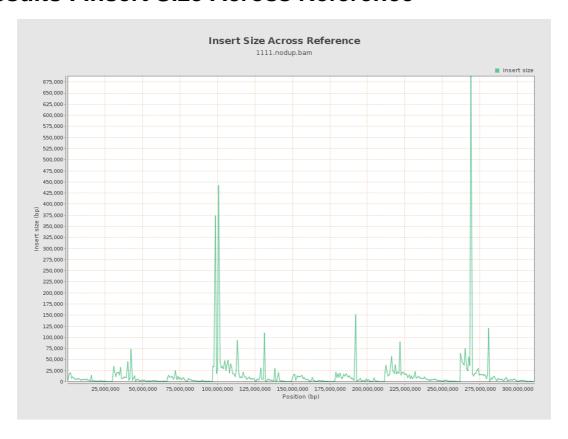


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

