Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:27:23



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/142 8 .nodup.bam -nw 400 -hm 3

1.2. Alignment

Description	BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1428 .nodup.bam
reads: Downward line: Downward line	Program:	bwa (0.7.17-r1188)
@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_573/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_573_S140_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_573/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_573_S140_L004 _R2_001.fastq.gz	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	no
Size of a homopolymer:	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_573/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_573_S140_L004 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_573/02- FASTQ/220906_A00187_0838_AHM G3KDSX3/P26207_573_S140_L004
	Size of a homopolymer:	3



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Number of windows:	400			
Analysis date:	Mon May 29 21:27:22 CEST 2023			
Draw chromosome limits:	no			
Skip duplicate alignments:	no			



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	52,831,272
Mapped reads	50,383,566 / 95.37%
Unmapped reads	2,447,706 / 4.63%
Mapped paired reads	50,383,566 / 95.37%
Mapped reads, first in pair	25,267,842 / 47.83%
Mapped reads, second in pair	25,115,724 / 47.54%
Mapped reads, both in pair	49,555,466 / 93.8%
Mapped reads, singletons	828,100 / 1.57%
Read min/max/mean length	30 / 151 / 148.07
Duplicated reads (flagged)	6,689,758 / 12.66%
Clipped reads	11,806,941 / 22.35%

2.2. ACGT Content

Number/percentage of A's	2,148,384,055 / 30.74%		
Number/percentage of C's	1,345,929,577 / 19.26%		
Number/percentage of T's	2,152,084,237 / 30.8%		
Number/percentage of G's	1,341,760,527 / 19.2%		
Number/percentage of N's	48,893 / 0%		
GC Percentage	38.46%		

2.3. Coverage



Mean	22.4831
Standard Deviation	188.8029

2.4. Mapping Quality

Mean Mapping Quality	43.69

2.5. Insert size

Mean	210,552.13
Standard Deviation	2,160,418.23
P25/Median/P75	302 / 396 / 512

2.6. Mismatches and indels

General error rate	2.59%
Mismatches	168,435,995
Insertions	4,614,189
Mapped reads with at least one insertion	8.25%
Deletions	4,864,986
Mapped reads with at least one deletion	8.56%
Homopolymer indels	55%

2.7. Chromosome stats

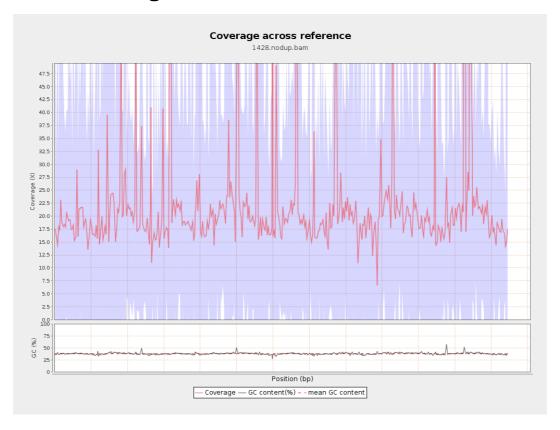
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	545883803	18.3649	62.0051



LT669789.1	36598175	817777929	22.3448	192.5553
LT669790.1	30422129	693393705	22.7924	145.9322
LT669791.1	52758100	1169444425	22.1662	166.861
LT669792.1	28376109	630709863	22.2268	205.4286
LT669793.1	33388210	707371437	21.1863	127.7547
LT669794.1	50579949	1097865871	21.7056	176.114
LT669795.1	49795044	1344239782	26.9955	290.7025

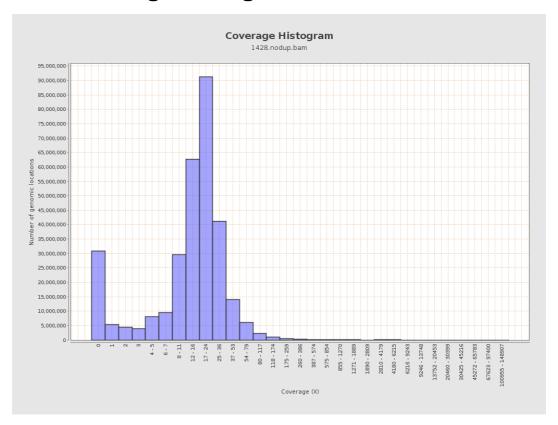


3. Results: Coverage across reference



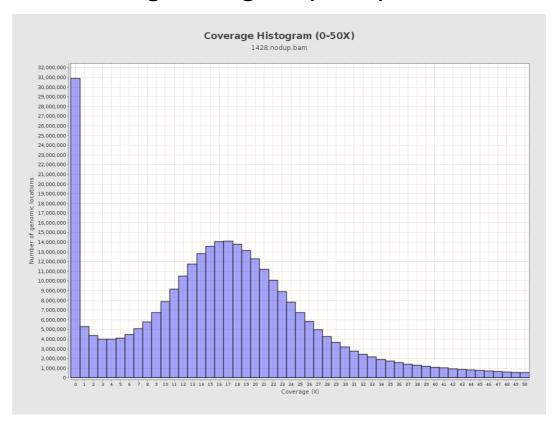


4. Results: Coverage Histogram



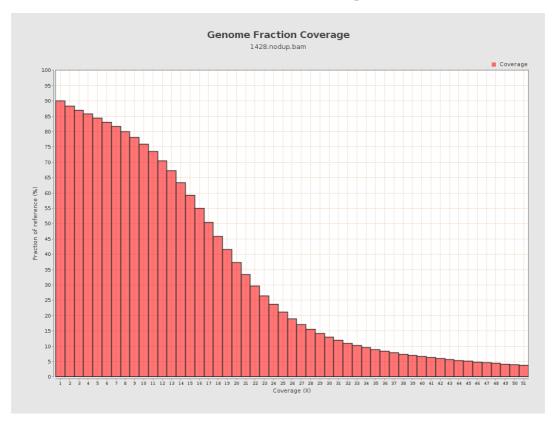


5. Results: Coverage Histogram (0-50X)



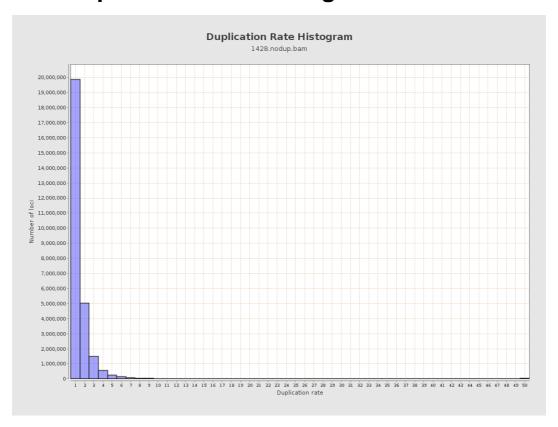


6. Results : Genome Fraction Coverage





7. Results : Duplication Rate Histogram



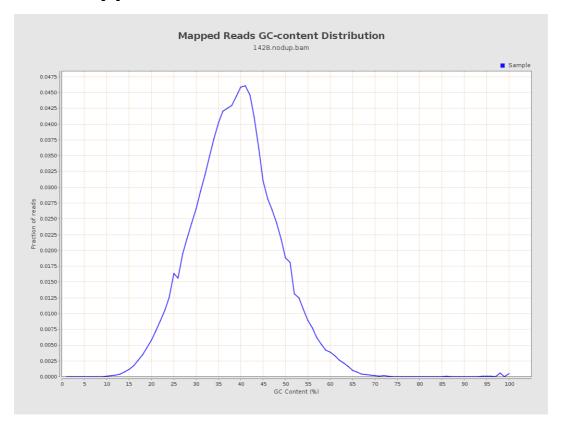


8. Results: Mapped Reads Nucleotide Content



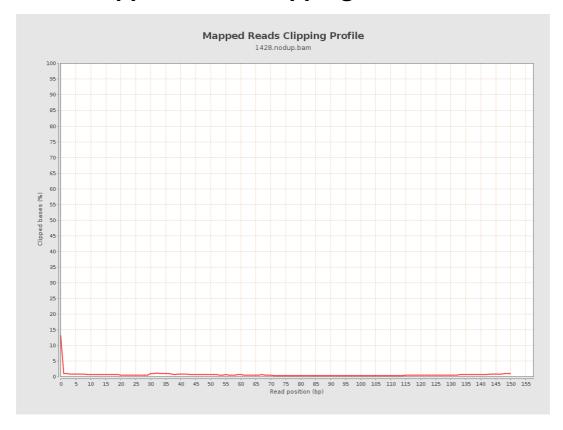


9. Results: Mapped Reads GC-content Distribution



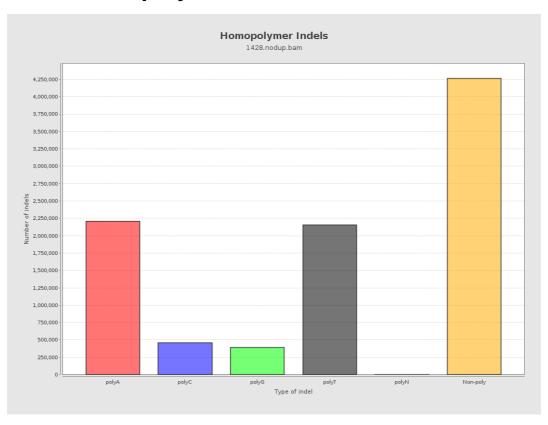


10. Results: Mapped Reads Clipping Profile



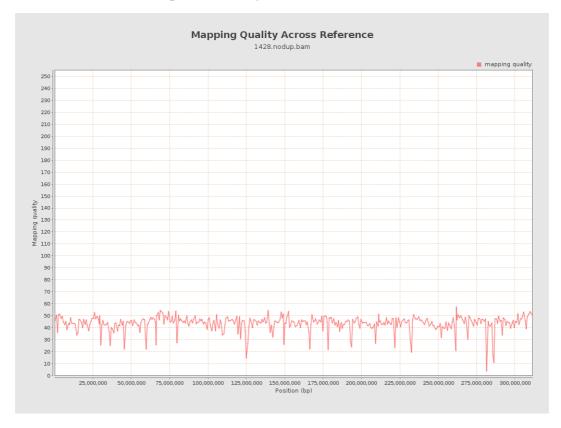


11. Results : Homopolymer Indels



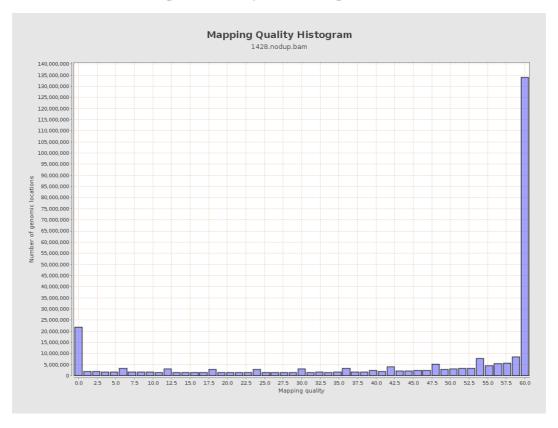


12. Results: Mapping Quality Across Reference



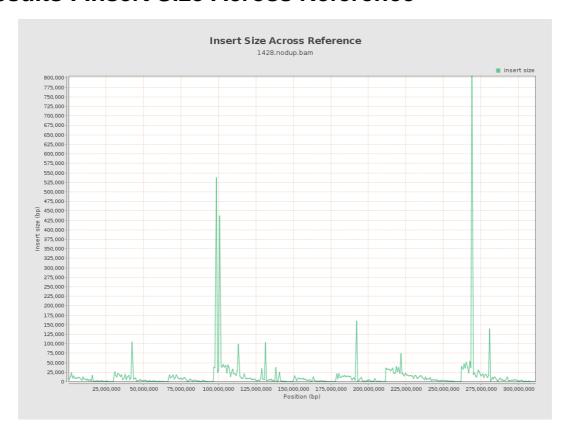


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

