Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:24:42



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/868 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 868 .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: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_276/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_276_S357_L003 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_276/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_276_S357_L003 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400



Analysis date:	Mon May 29 21:24:41 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	49,722,051
Mapped reads	44,396,913 / 89.29%
Unmapped reads	5,325,138 / 10.71%
Mapped paired reads	44,396,913 / 89.29%
Mapped reads, first in pair	22,253,423 / 44.76%
Mapped reads, second in pair	22,143,490 / 44.53%
Mapped reads, both in pair	42,718,315 / 85.91%
Mapped reads, singletons	1,678,598 / 3.38%
Read min/max/mean length	30 / 151 / 147.98
Duplicated reads (flagged)	7,536,939 / 15.16%
Clipped reads	11,381,918 / 22.89%

2.2. ACGT Content

Number/percentage of A's	1,865,871,231 / 31.02%	
Number/percentage of C's	1,140,323,250 / 18.96%	
Number/percentage of T's	1,867,202,505 / 31.04%	
Number/percentage of G's	1,142,104,108 / 18.99%	
Number/percentage of N's	21,865 / 0%	
GC Percentage	37.94%	

2.3. Coverage



Mean	19.3523
Standard Deviation	214.2349

2.4. Mapping Quality

Mean Mapping Quality	44.38
wican mapping equality	TT.30

2.5. Insert size

Mean	286,467.37	
Standard Deviation	2,602,361.56	
P25/Median/P75	338 / 448 / 581	

2.6. Mismatches and indels

General error rate	2.42%
Mismatches	132,475,388
Insertions	4,629,618
Mapped reads with at least one insertion	9.25%
Deletions	4,210,539
Mapped reads with at least one deletion	8.4%
Homopolymer indels	57.79%

2.7. Chromosome stats

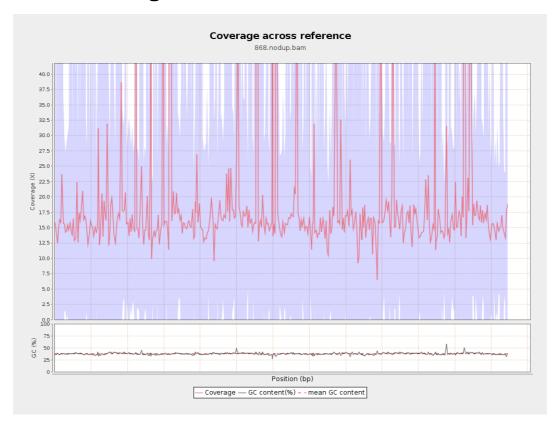
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	462773379	15.5688	89.5464



LT669789.1	36598175	706178510	19.2955	218.6447
LT669790.1	30422129	784389555	25.7835	339.894
LT669791.1	52758100	1011612711	19.1745	243.3495
LT669792.1	28376109	560729521	19.7606	207.9294
LT669793.1	33388210	580434529	17.3844	130.637
LT669794.1	50579949	901046625	17.8143	160.622
LT669795.1	49795044	1023829313	20.5609	227.3104

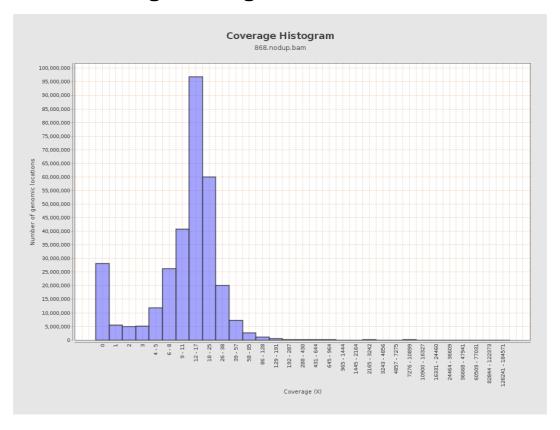


3. Results: Coverage across reference



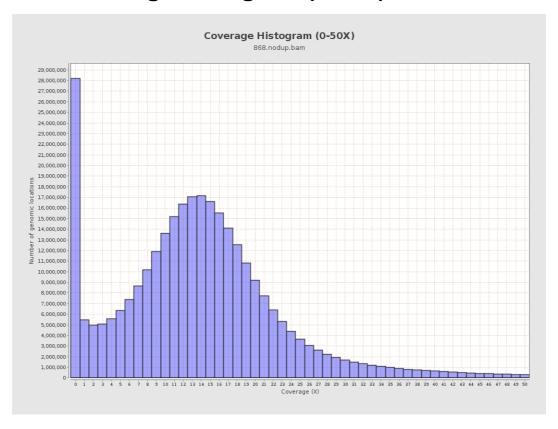


4. Results: Coverage Histogram



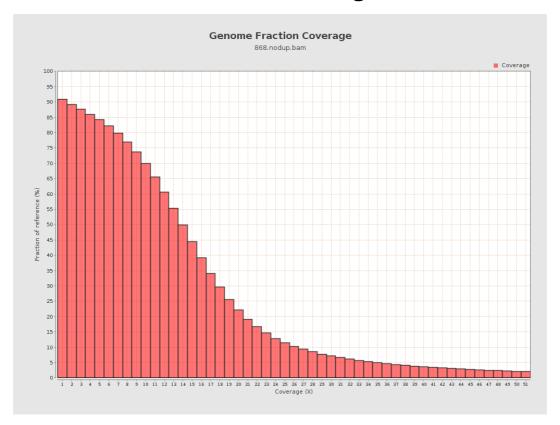


5. Results: Coverage Histogram (0-50X)



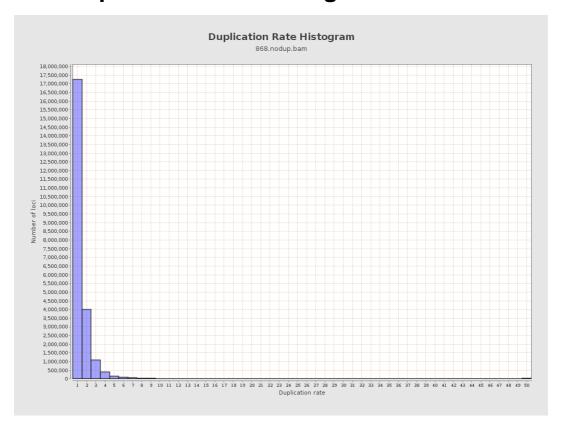


6. Results : Genome Fraction Coverage





7. Results: Duplication Rate Histogram



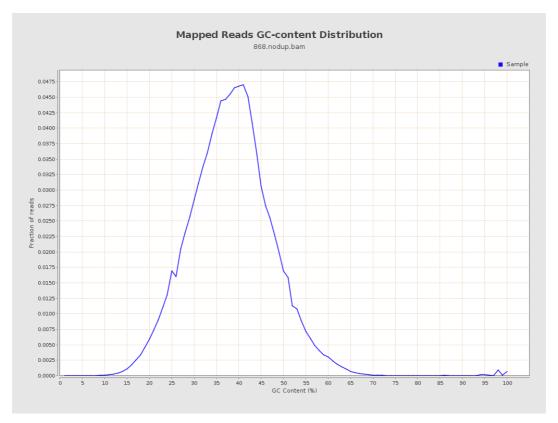


8. Results: Mapped Reads Nucleotide Content



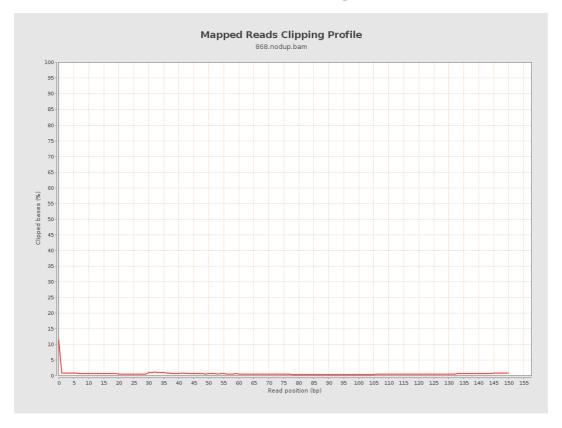


9. Results: Mapped Reads GC-content Distribution



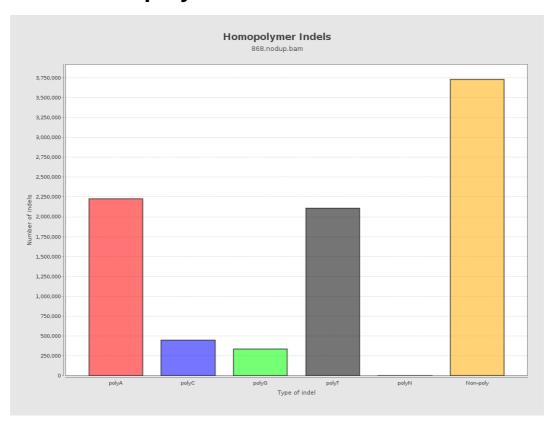


10. Results: Mapped Reads Clipping Profile



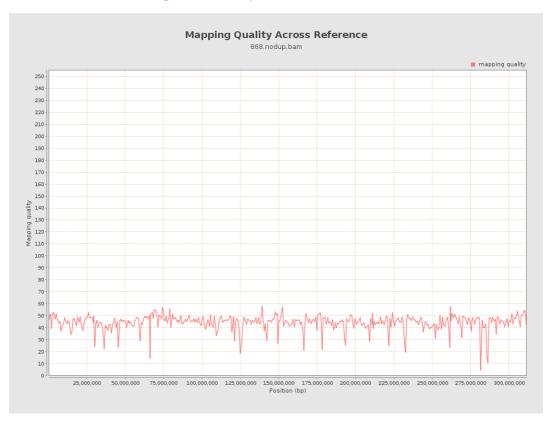


11. Results : Homopolymer Indels



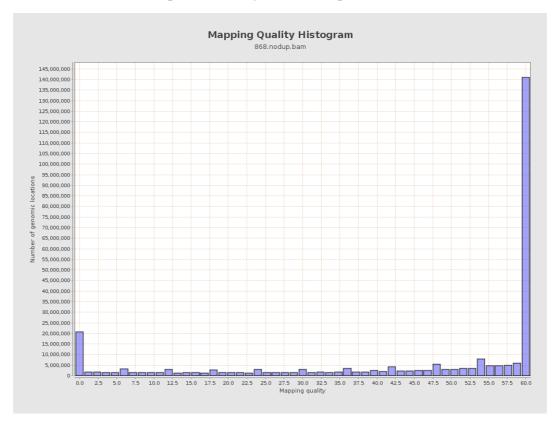


12. Results: Mapping Quality Across Reference



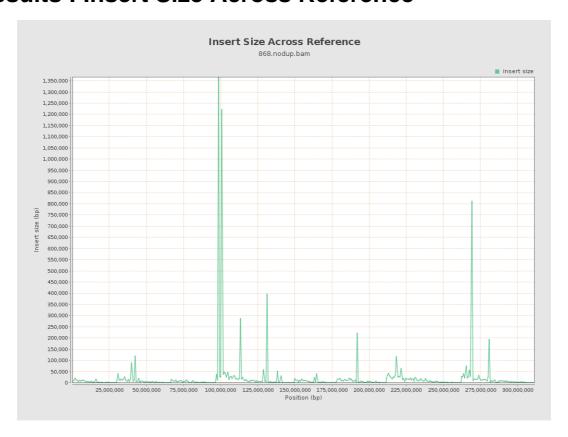


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

