Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.3 2024/10/15 10:25:50



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam
./Results_from_Pipeline/bams/ggal_gut.Aligned.sortedByCoord.out.bam -nw
400 -hm 3

1.2. Alignment

Command line:	/home/Ashutosh.Yadav/anaconda3/e nvs/starAligner/bin/STAR-avx2 runThreadN 16genomeDir indexreadFilesIn trimmed_ggal_gut_1.fastq trimmed_ggal_gut_2.fastq outFileNamePrefix ggal_gut outSAMtype BAM SortedByCoordinate
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	STAR (2.7.11b)
Analysis date:	Tue Oct 15 10:25:49 IST 2024
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	./Results_from_Pipeline/bams/ggal_g ut.Aligned.sortedByCoord.out.bam



2. Summary

2.1. Globals

Reference size	171,001	
Number of reads	4,667	
Mapped reads	4,667 / 100%	
Unmapped reads	0 / 0%	
Mapped paired reads	4,667 / 100%	
Mapped reads, first in pair	2,333 / 49.99%	
Mapped reads, second in pair	2,334 / 50.01%	
Mapped reads, both in pair	4,666 / 99.98%	
Mapped reads, singletons	1 / 0.02%	
Secondary alignments	204	
Read min/max/mean length	37 / 105 / 107.67	
Duplicated reads (estimated)	1,501 / 32.16%	
Duplication rate	28.08%	
Clipped reads	1,215 / 26.03%	

2.2. ACGT Content

Number/percentage of A's	128,310 / 27.6%
Number/percentage of C's	104,023 / 22.37%
Number/percentage of T's	127,769 / 27.48%
Number/percentage of G's	104,839 / 22.55%
Number/percentage of N's	1 / 0%
GC Percentage	44.92%



2.3. Coverage

Mean	29.0722
Standard Deviation	28.589

2.4. Mapping Quality

21.08
21.00

2.5. Insert size

Mean	1,638.42	
Standard Deviation	7,504.89	
P25/Median/P75	114 / 155 / 945	

2.6. Mismatches and indels

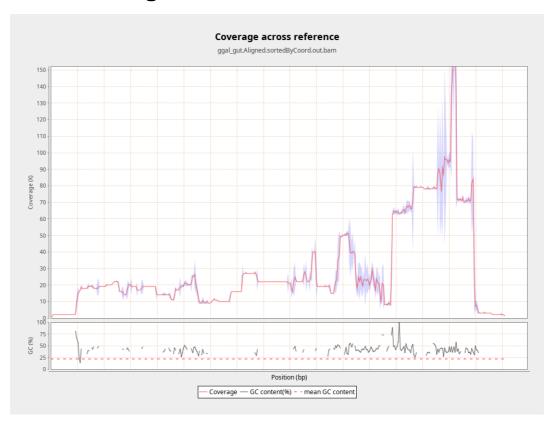
Insertions	162
Mapped reads with at least one insertion	3.26%
Deletions	38
Mapped reads with at least one deletion	0.73%
Homopolymer indels	50.5%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
1	171001	4971369	29.0722	28.589

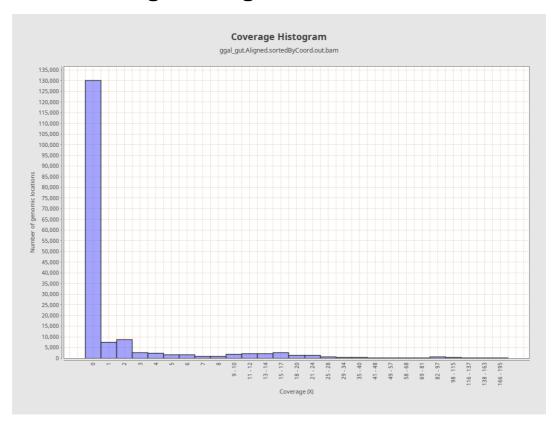


3. Results : Coverage across reference



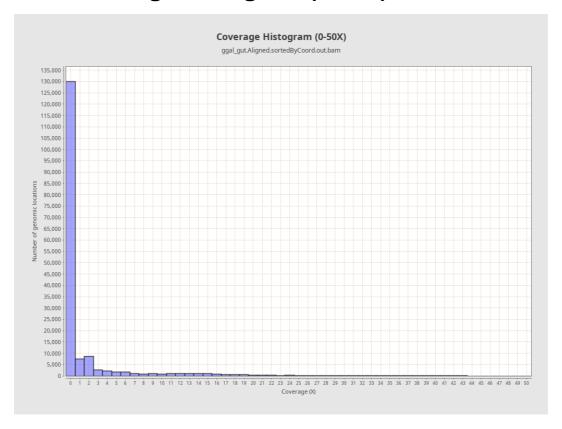


4. Results : Coverage Histogram



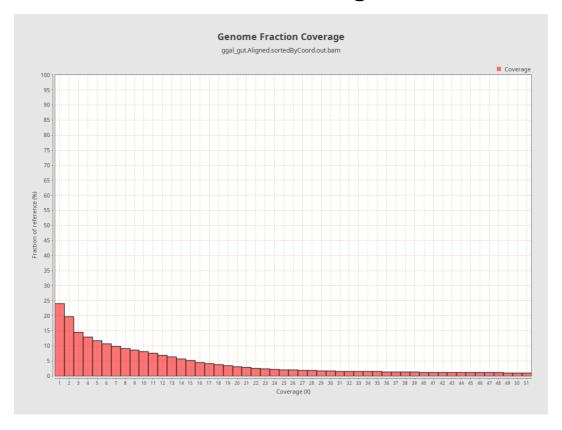


5. Results: Coverage Histogram (0-50X)



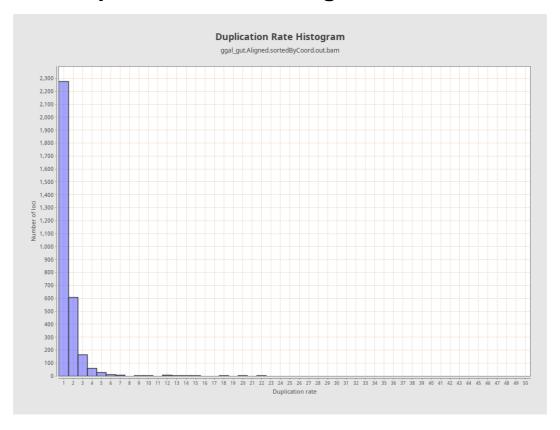


6. Results : Genome Fraction Coverage



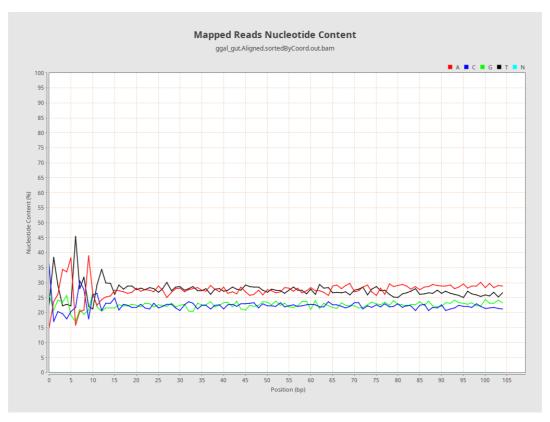


7. Results: Duplication Rate Histogram



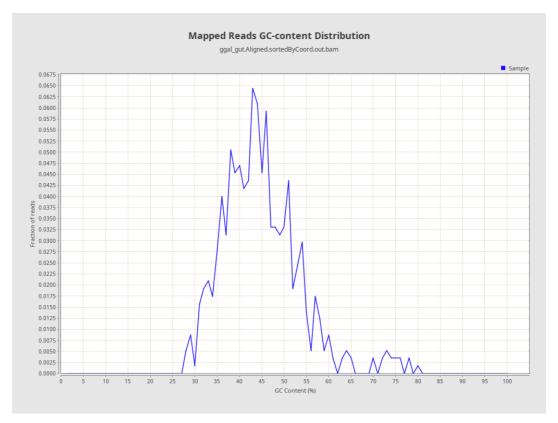


8. Results: Mapped Reads Nucleotide Content



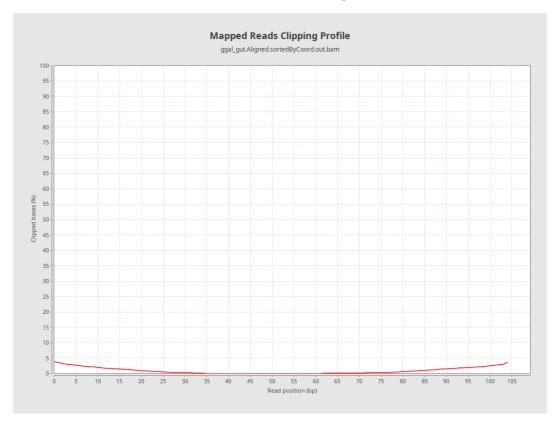


9. Results: Mapped Reads GC-content Distribution



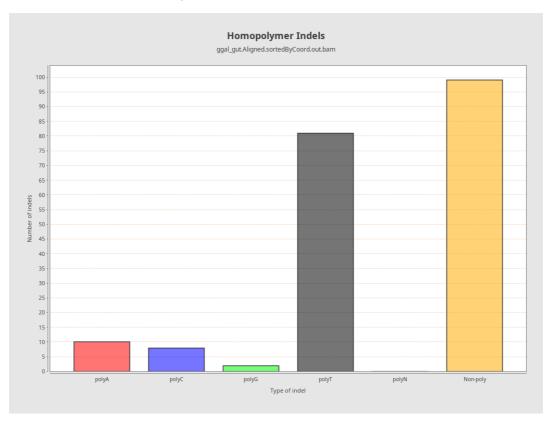


10. Results: Mapped Reads Clipping Profile



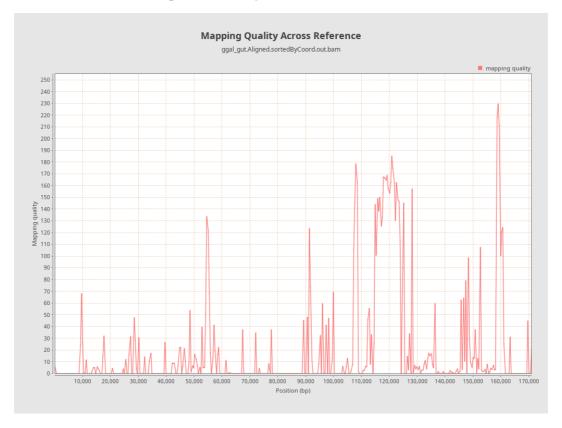


11. Results : Homopolymer Indels



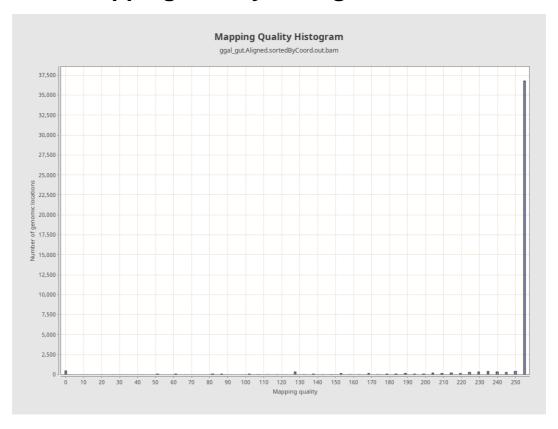


12. Results: Mapping Quality Across Reference



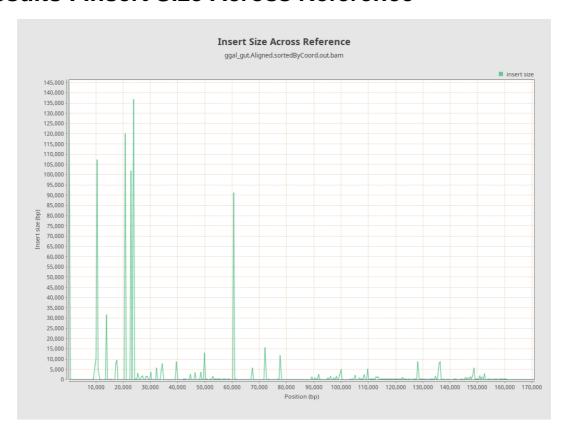


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

