Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.2-dev 2022/03/01 01:51:54



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam output/UF701/UF701_f4_q37_sortc_markdup.rescaled.bam -nw 400 -hm 3

1.2. Alignment

Command line:	bwa samse -r @RG\tID:UF701\tSM:UF701\tLB:nan\ tPL:ILLUMINA /data/stonelab/references/M_leprae_ TN/M_leprae_TN.fasta output/UF701/UF701-ancient.sai ancient.trimmed.fq
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.17-r1188)
Analysis date:	Tue Mar 01 01:51:53 MST 2022
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	output/UF701/UF701_f4_q37_sortc_ markdup.rescaled.bam



2. Summary

2.1. Globals

Reference size	3,268,203	
Number of reads	807	
Mapped reads	807 / 100%	
Unmapped reads	0 / 0%	
Mapped paired reads	0 / 0%	
Secondary alignments	0	
Read min/max/mean length	30 / 127 / 48.95	
Duplicated reads (estimated)	167 / 20.69%	
Duplication rate	19.06%	
Clipped reads	0 / 0%	

2.2. ACGT Content

Number/percentage of A's	9,669 / 24.49%	
Number/percentage of C's	9,769 / 24.74%	
Number/percentage of T's	7,511 / 19.02%	
Number/percentage of G's	12,539 / 31.75%	
Number/percentage of N's	0 / 0%	
GC Percentage	56.49%	

2.3. Coverage

Mean	0.0121
Standard Deviation	0.5727



2.4. Mapping Quality

Mean Mapping Quality	6.29
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2.5. Mismatches and indels

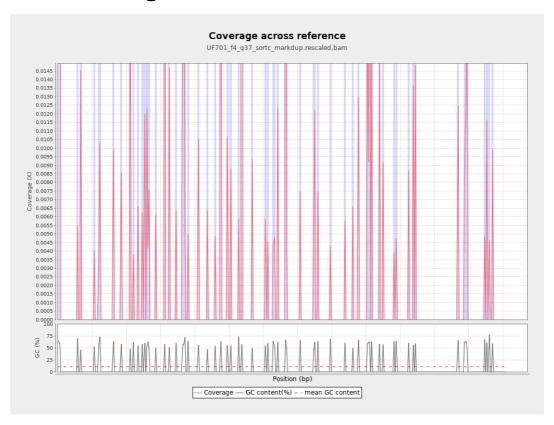
General error rate	4.1%	
Mismatches	1,605	
Insertions	15	
Mapped reads with at least one insertion	1.86%	
Deletions	12	
Mapped reads with at least one deletion	1.49%	
Homopolymer indels	14.81%	

2.6. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
ENA AL4503 80 AL450380.	3268203	39500	0.0121	0.5727
1				

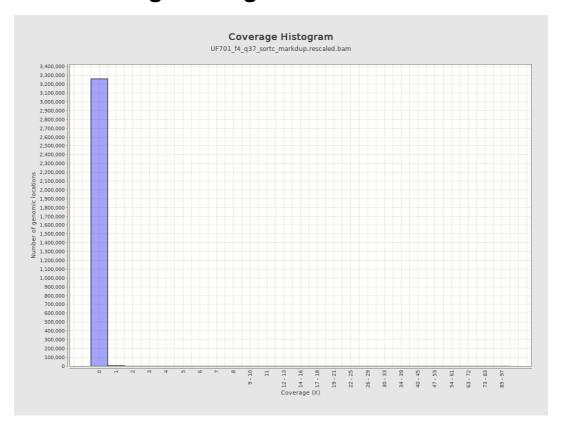


3. Results: Coverage across reference



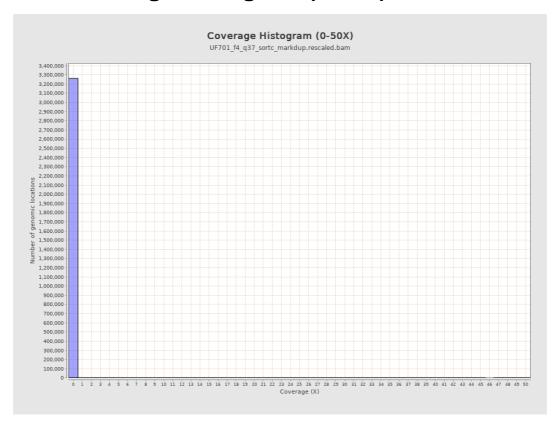


4. Results: Coverage Histogram



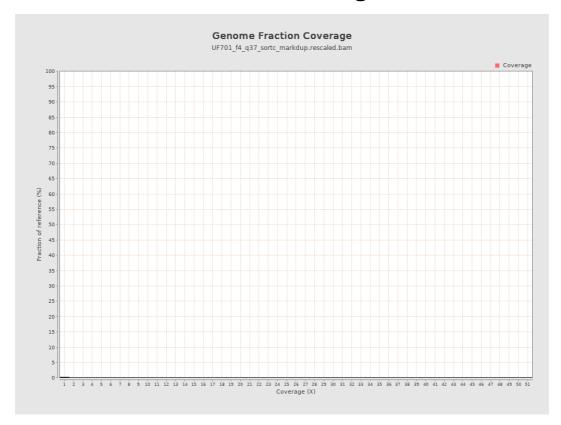


5. Results: Coverage Histogram (0-50X)



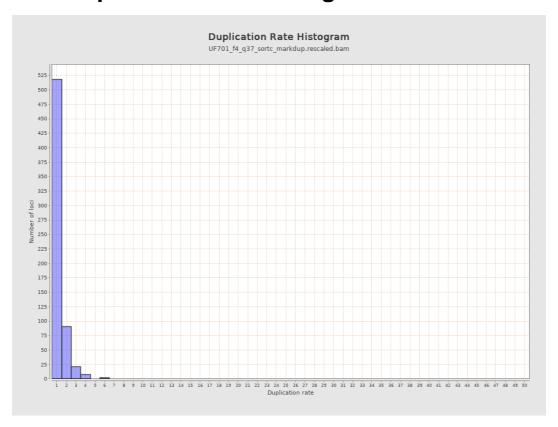


6. Results : Genome Fraction Coverage



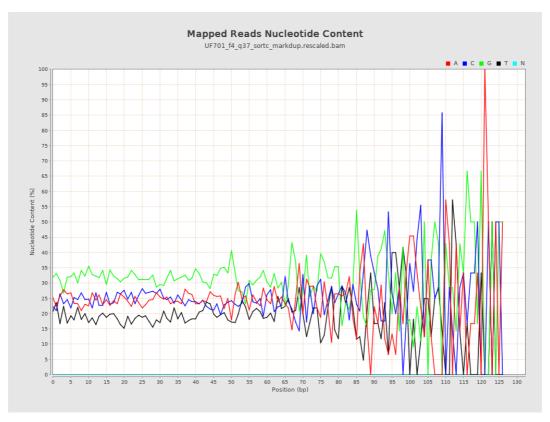


7. Results: Duplication Rate Histogram



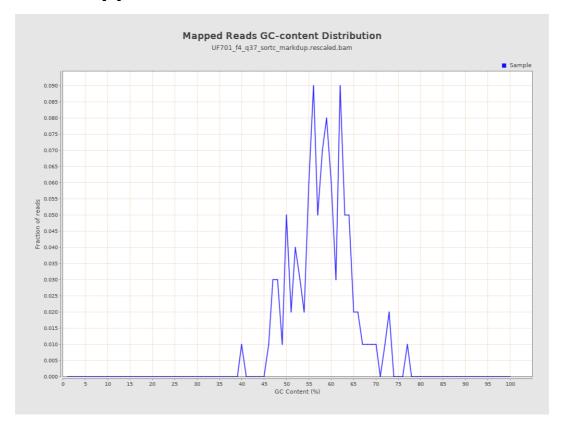


8. Results: Mapped Reads Nucleotide Content



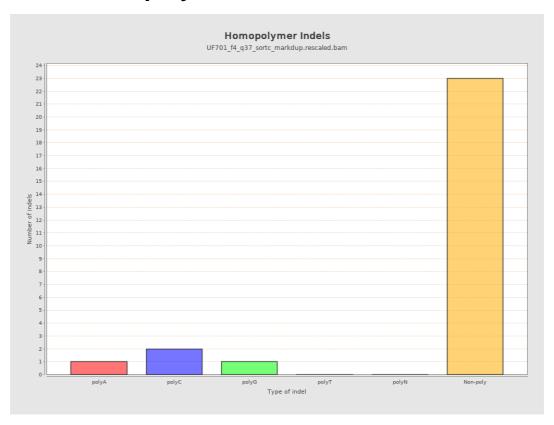


9. Results: Mapped Reads GC-content Distribution



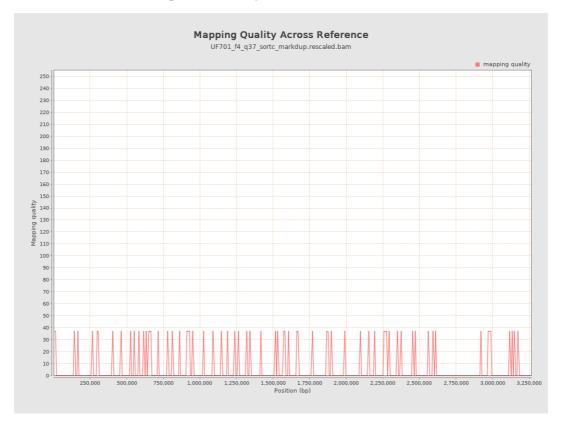


10. Results : Homopolymer Indels





11. Results: Mapping Quality Across Reference





12. Results: Mapping Quality Histogram

