Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.2-dev 2022/03/01 02:16:08



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam
output/UF25/UF25_f4_q37_sortc_markdup.rescaled.bam -nw 400 -hm 3

1.2. Alignment

Command line:	bwa samse -r @RG\tID:UF25\tSM:UF25\tLB:nan\tP L:ILLUMINA /data/stonelab/references/M_leprae_ TN/M_leprae_TN.fasta output/UF25/UF25-ancient.sai output/UF25/UF25- ancient.trimmed.fq	
Draw chromosome limits:	no	
Analyze overlapping paired-end reads:	no	
Program:	bwa (0.7.17-r1188)	
Analysis date:	Tue Mar 01 02:16:08 MST 2022	
Size of a homopolymer:	3	
Skip duplicate alignments:	no	
Number of windows:	400	
BAM file:	output/UF25/UF25_f4_q37_sortc_markdup.rescaled.bam	



2. Summary

2.1. Globals

Reference size	3,268,203		
Number of reads	1,491,676		
Mapped reads	1,491,676 / 100%		
Unmapped reads	0 / 0%		
Mapped paired reads	0 / 0%		
Secondary alignments	0		
Read min/max/mean length	30 / 141 / 68.11		
Duplicated reads (estimated)	453,015 / 30.37%		
Duplication rate	30.17%		
Clipped reads	6 / 0%		

2.2. ACGT Content

Number/percentage of A's	23,328,842 / 22.96%	
Number/percentage of C's	25,701,586 / 25.3%	
Number/percentage of T's	23,580,408 / 23.21%	
Number/percentage of G's	28,987,782 / 28.53%	
Number/percentage of N's	29 / 0%	
GC Percentage	53.83%	

2.3. Coverage

Mean	31.0886
Standard Deviation	24.4164



2.4. Mapping Quality

Mean Mapping Quality	37
3 -1	

2.5. Mismatches and indels

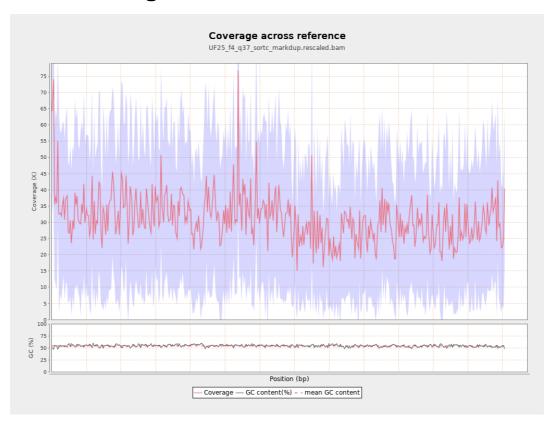
General error rate	0.15%
Mismatches	147,835
Insertions	2,196
Mapped reads with at least one insertion	0.15%
Deletions	4,529
Mapped reads with at least one deletion	0.3%
Homopolymer indels	43.55%

2.6. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
ENA AL4503 80 AL450380. 1	3268203	101603898	31.0886	24.4164

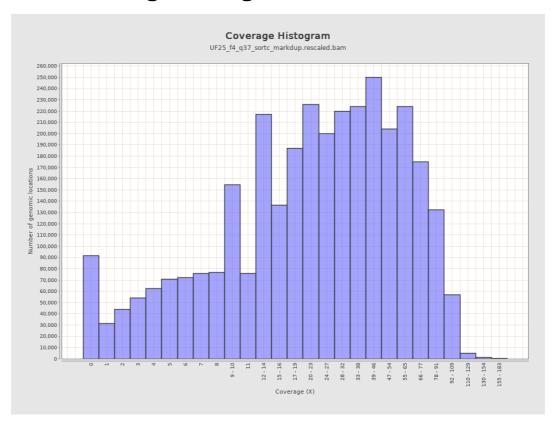


3. Results : Coverage across reference



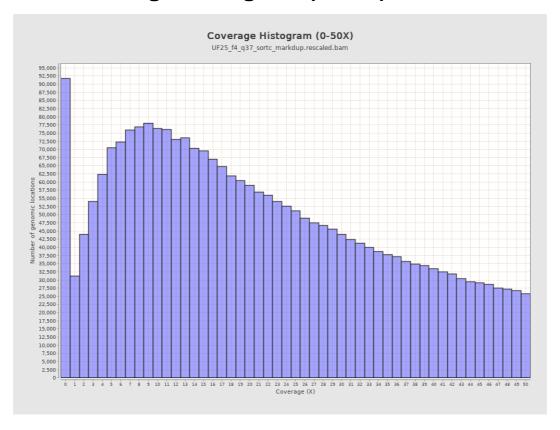


4. Results : Coverage Histogram



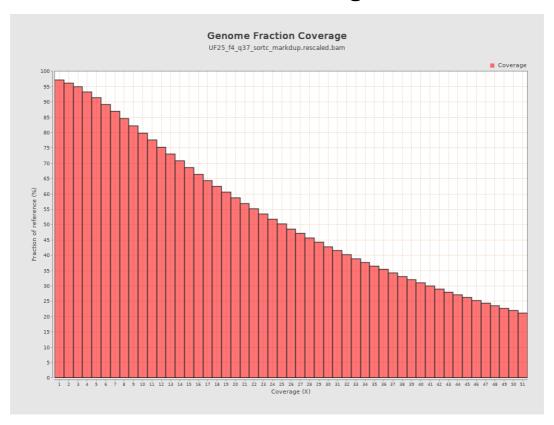


5. Results: Coverage Histogram (0-50X)



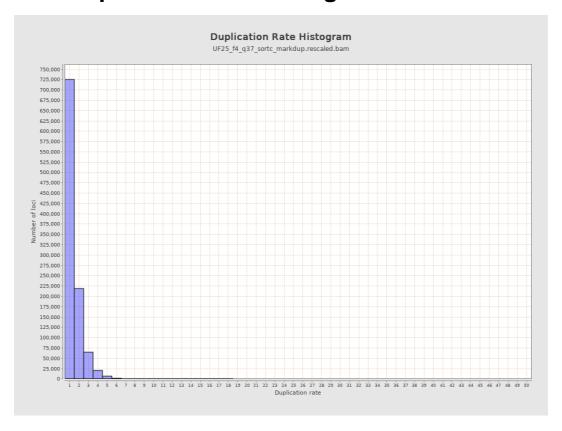


6. Results : Genome Fraction Coverage



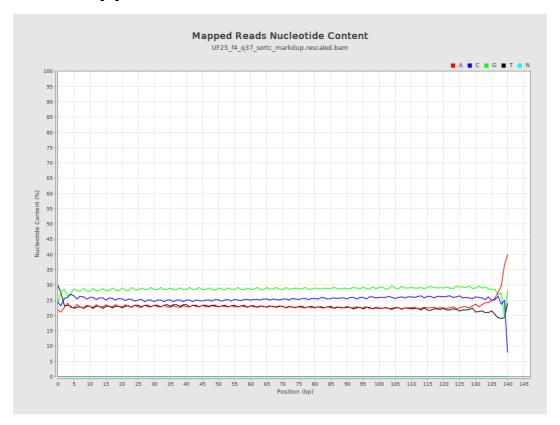


7. Results: Duplication Rate Histogram



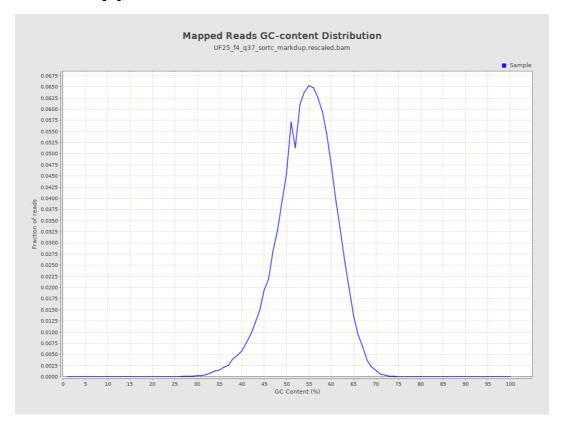


8. Results: Mapped Reads Nucleotide Content



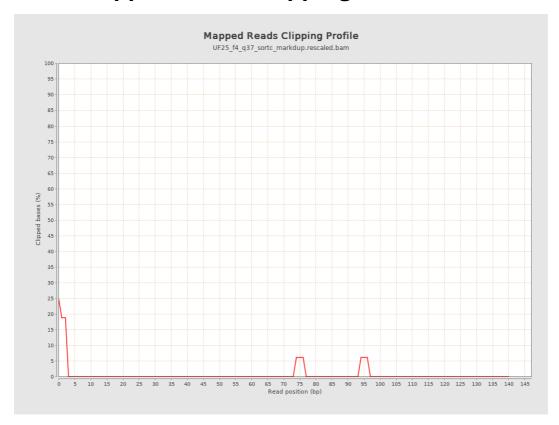


9. Results: Mapped Reads GC-content Distribution



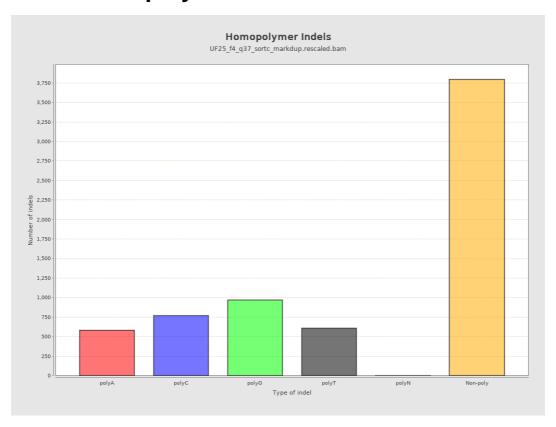


10. Results: Mapped Reads Clipping Profile



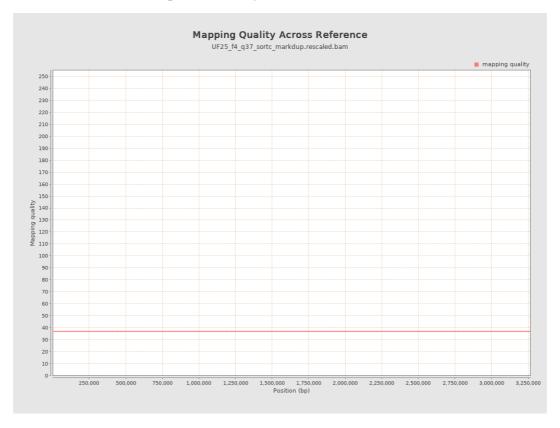


11. Results : Homopolymer Indels





12. Results: Mapping Quality Across Reference





13. Results: Mapping Quality Histogram

