Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:30:55



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/835 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 835 .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_149/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_149_S239_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_149/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_149_S239_L002 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400



Analysis date:	Mon May 29 21:30:54 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	63,178,421
Mapped reads	59,502,856 / 94.18%
Unmapped reads	3,675,565 / 5.82%
Mapped paired reads	59,502,856 / 94.18%
Mapped reads, first in pair	29,818,883 / 47.2%
Mapped reads, second in pair	29,683,973 / 46.98%
Mapped reads, both in pair	58,265,872 / 92.22%
Mapped reads, singletons	1,236,984 / 1.96%
Read min/max/mean length	30 / 151 / 148.17
Duplicated reads (flagged)	9,616,900 / 15.22%
Clipped reads	12,962,749 / 20.52%

2.2. ACGT Content

Number/percentage of A's	2,551,708,707 / 30.89%
Number/percentage of C's	1,581,067,609 / 19.14%
Number/percentage of T's	2,553,441,480 / 30.91%
Number/percentage of G's	1,575,604,972 / 19.07%
Number/percentage of N's	35,175 / 0%
GC Percentage	38.21%

2.3. Coverage



Mean	26.5757
Standard Deviation	215.7207

2.4. Mapping Quality

Mean Mapping Quality	44.96
ing an mapping adamy	11.00

2.5. Insert size

Mean	216,117.37	
Standard Deviation	2,211,308.61	
P25/Median/P75	323 / 424 / 556	

2.6. Mismatches and indels

General error rate	2.22%
Mismatches	168,497,291
Insertions	5,463,155
Mapped reads with at least one insertion	8.26%
Deletions	5,467,843
Mapped reads with at least one deletion	8.17%
Homopolymer indels	56.94%

2.7. Chromosome stats

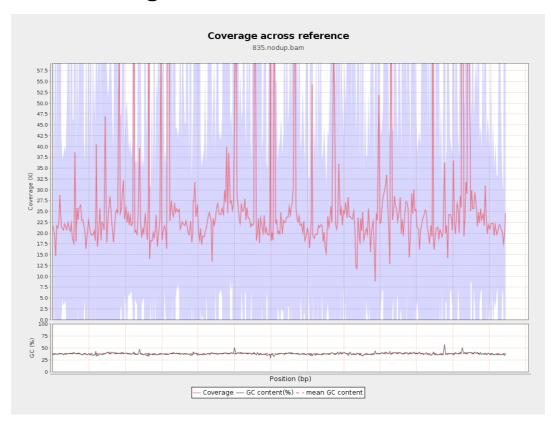
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	645465571	21.715	65.9748



LT669789.1	36598175	976325321	26.6769	227.3517
LT669790.1	30422129	878715658	28.8841	236.2233
LT669791.1	52758100	1379067405	26.1394	189.5996
LT669792.1	28376109	740836075	26.1077	224.9905
LT669793.1	33388210	806614995	24.1587	113.3895
LT669794.1	50579949	1273802023	25.1839	193.0733
LT669795.1	49795044	1581282402	31.7558	321.0794

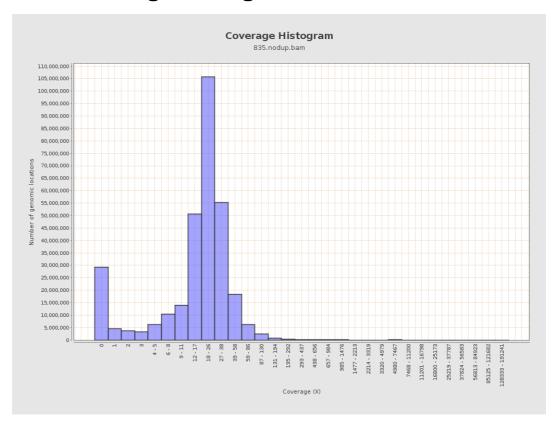


3. Results: Coverage across reference



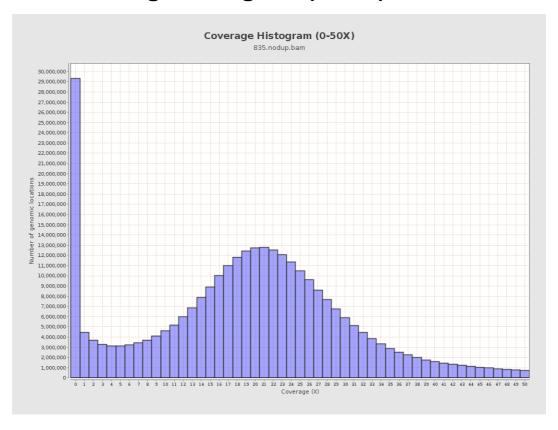


4. Results: Coverage Histogram



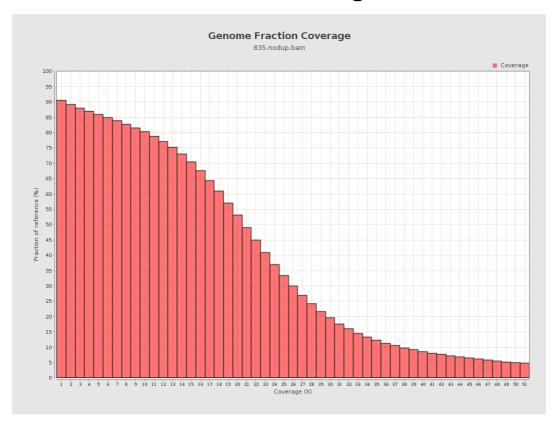


5. Results: Coverage Histogram (0-50X)



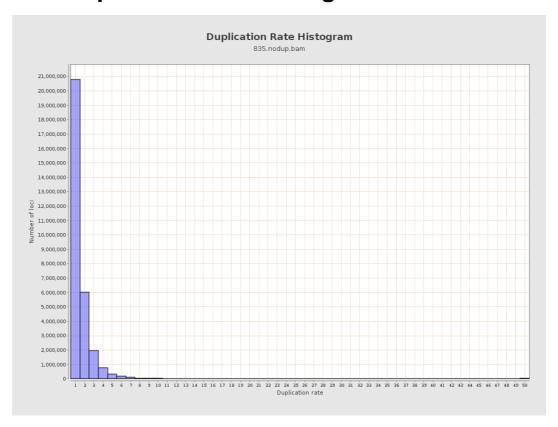


6. Results : Genome Fraction Coverage





7. Results : Duplication Rate Histogram



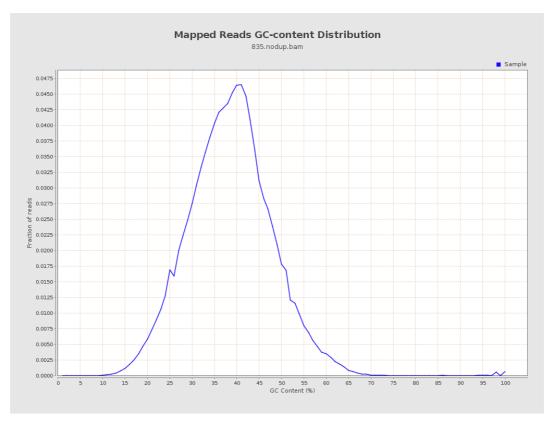


8. Results: Mapped Reads Nucleotide Content



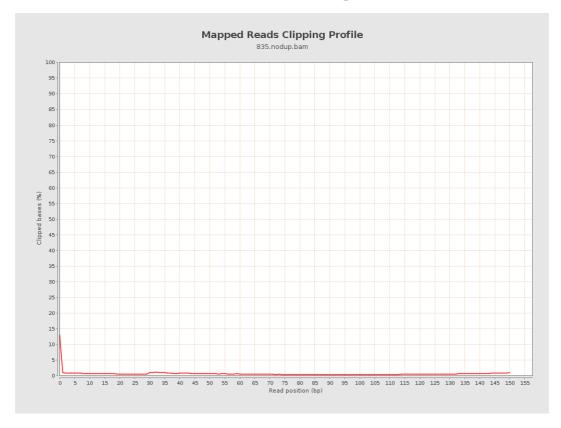


9. Results: Mapped Reads GC-content Distribution



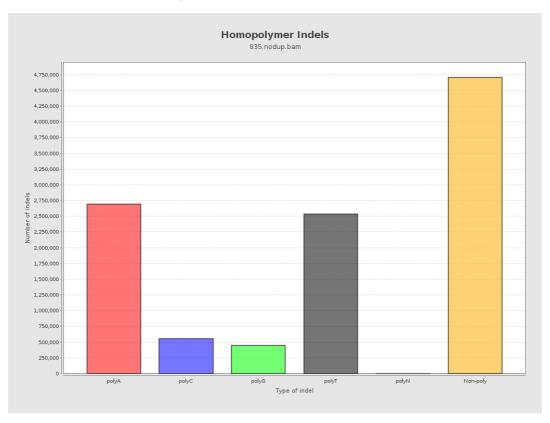


10. Results: Mapped Reads Clipping Profile



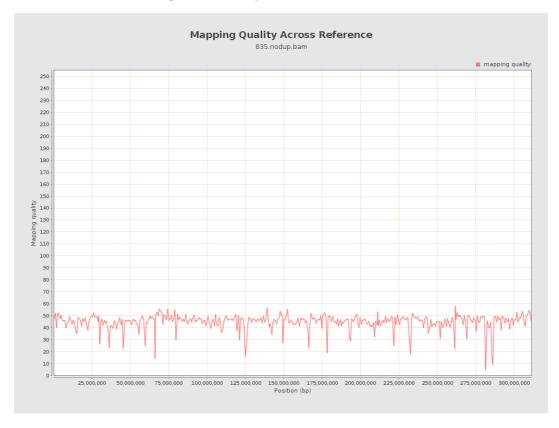


11. Results : Homopolymer Indels



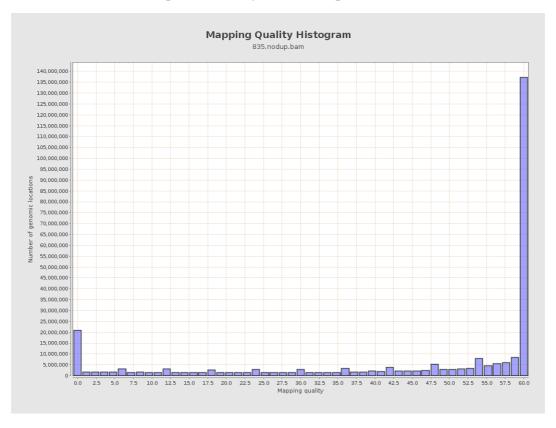


12. Results: Mapping Quality Across Reference



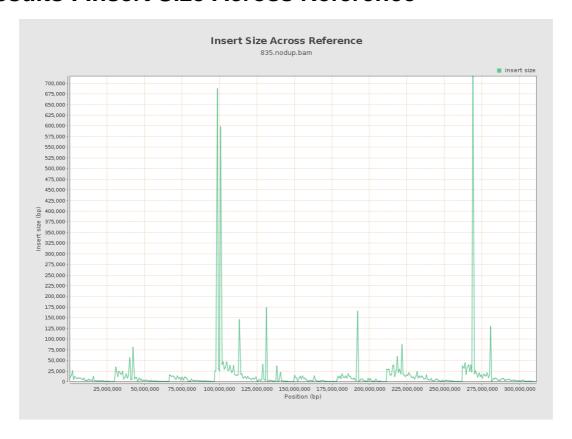


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

