Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:32:37



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/833 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 833 .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:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\sample /proj/uppstore2018210/Aalpina/data/r eference/GCA_900128785.1_MPIPZ. v5_genomic.fa /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_179/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_179_S269_L002 _R1_001.fastq.gz /proj/uppstore2018210/Aalpina/data/r awdata/P26207/P26207_179/02- FASTQ/220902_A00621_0737_BHM GCVDSX3/P26207_179_S269_L002 _R2_001.fastq.gz
Size of a homopolymer:	3
Number of windows:	400



Analysis date:	Mon May 29 21:32:36 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	65,083,853
Mapped reads	61,458,109 / 94.43%
Unmapped reads	3,625,744 / 5.57%
Mapped paired reads	61,458,109 / 94.43%
Mapped reads, first in pair	30,815,344 / 47.35%
Mapped reads, second in pair	30,642,765 / 47.08%
Mapped reads, both in pair	60,182,222 / 92.47%
Mapped reads, singletons	1,275,887 / 1.96%
Read min/max/mean length	30 / 151 / 148.17
Duplicated reads (flagged)	10,068,472 / 15.47%
Clipped reads	13,588,171 / 20.88%

2.2. ACGT Content

Number/percentage of A's	2,632,586,791 / 30.77%		
Number/percentage of C's	1,645,975,513 / 19.24%		
Number/percentage of T's	2,638,260,074 / 30.84%		
Number/percentage of G's	1,637,536,939 / 19.14%		
Number/percentage of N's	35,657 / 0%		
GC Percentage	38.38%		

2.3. Coverage



Mean	27.5215
Standard Deviation	244.028

2.4. Mapping Quality

Mean Mapping Quality	43.66

2.5. Insert size

Mean	233,346.08	
Standard Deviation	2,278,750.29	
P25/Median/P75	344 / 448 / 584	

2.6. Mismatches and indels

General error rate	2.41%
Mismatches	190,410,575
Insertions	5,859,876
Mapped reads with at least one insertion	8.58%
Deletions	6,005,468
Mapped reads with at least one deletion	8.69%
Homopolymer indels	56.18%

2.7. Chromosome stats

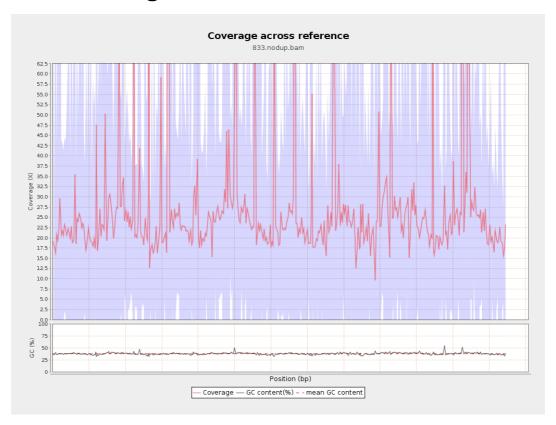
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	634416503	21.3433	62.1459



LT669789.1	36598175	1055214745	28.8324	266.383
LT669790.1	30422129	869270708	28.5736	241.992
LT669791.1	52758100	1451923870	27.5204	207.9745
LT669792.1	28376109	765210572	26.9667	325.7854
LT669793.1	33388210	858728673	25.7195	177.6449
LT669794.1	50579949	1349644847	26.6834	233.4995
LT669795.1	49795044	1592431523	31.9797	315.5257

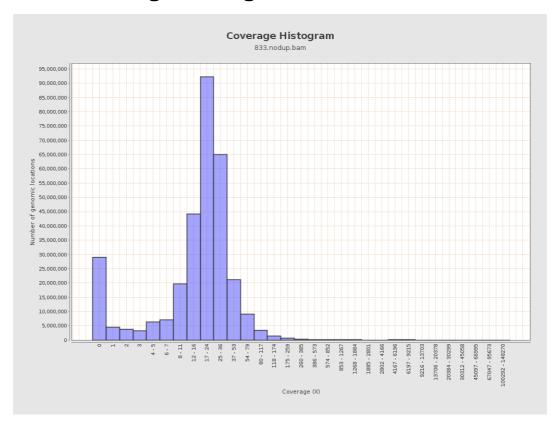


3. Results: Coverage across reference



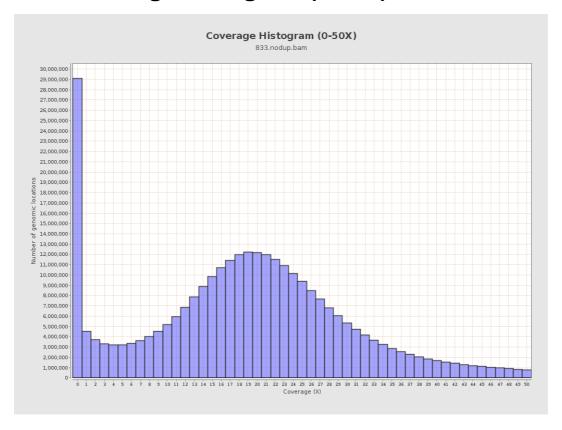


4. Results: Coverage Histogram



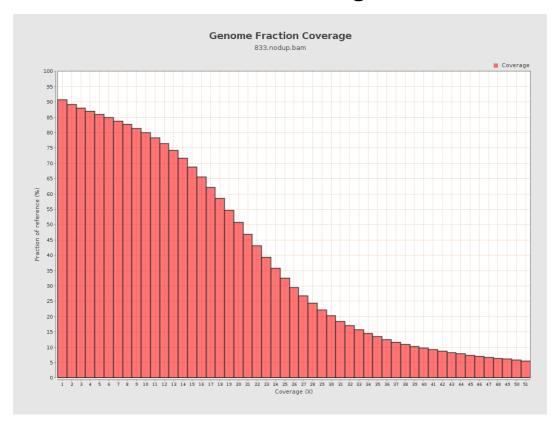


5. Results: Coverage Histogram (0-50X)



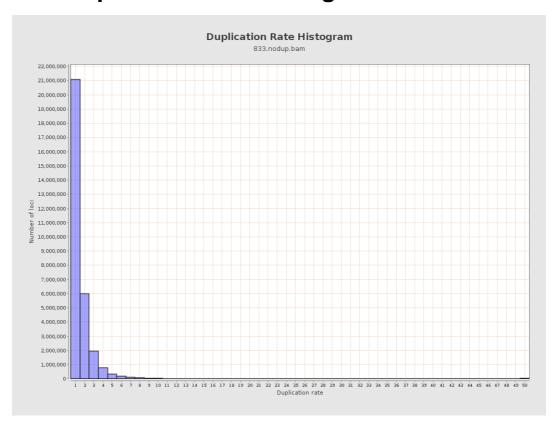


6. Results : Genome Fraction Coverage





7. Results : Duplication Rate Histogram



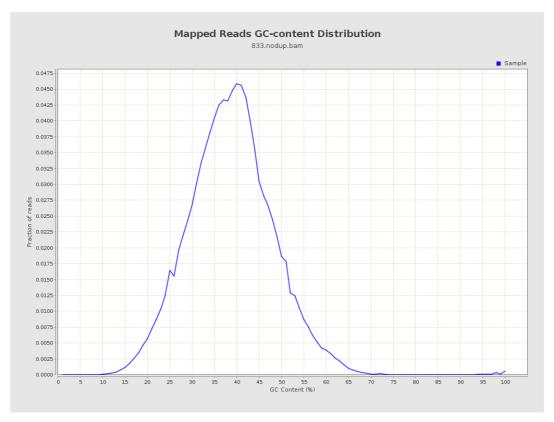


8. Results: Mapped Reads Nucleotide Content



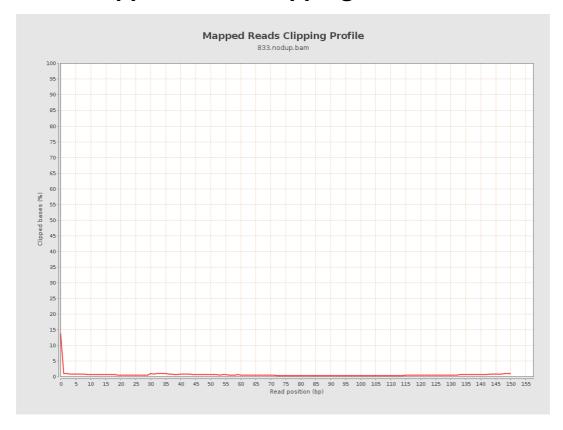


9. Results: Mapped Reads GC-content Distribution



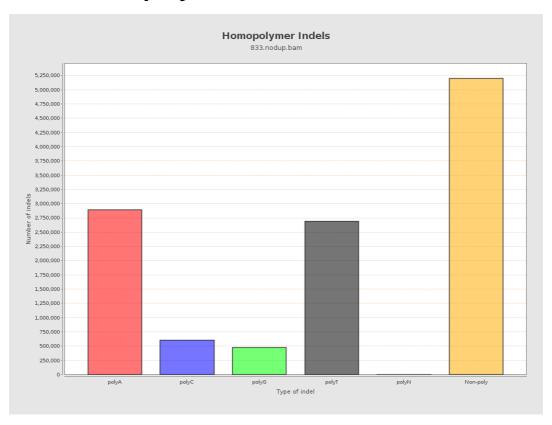


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



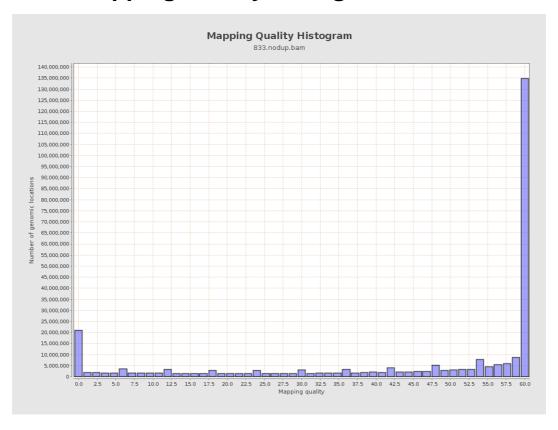


12. Results: Mapping Quality Across Reference



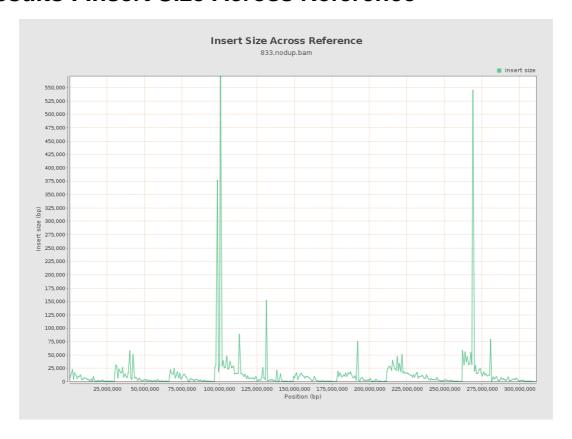


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

