Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2023/05/29 21:32:52



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam /proj/uppstore2018210/Aalpina/working/Kate/Working/F2/MarkDuplicates/148 2 .nodup.bam -nw 400 -hm 3

1.2. Alignment

BAM file:	/proj/uppstore2018210/Aalpina/worki ng/Kate/Working/F2/MarkDuplicates/ 1482 .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\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPL:Illumina\tLB:LibA\t SM:\unit\tPaina\tan\tan\tan\tan\tan\tan\tan\tan\tan\t
Size of a homopolymer:	3



Number of windows:	400
Analysis date:	Mon May 29 21:32:51 CEST 2023
Draw chromosome limits:	no
Skip duplicate alignments:	no



2. Summary

2.1. Globals

Reference size	311,642,060
Number of reads	67,300,609
Mapped reads	63,182,307 / 93.88%
Unmapped reads	4,118,302 / 6.12%
Mapped paired reads	63,182,307 / 93.88%
Mapped reads, first in pair	31,616,674 / 46.98%
Mapped reads, second in pair	31,565,633 / 46.9%
Mapped reads, both in pair	61,845,899 / 91.9%
Mapped reads, singletons	1,336,408 / 1.99%
Read min/max/mean length	30 / 151 / 148.26
Duplicated reads (flagged)	9,743,722 / 14.48%
Clipped reads	13,363,722 / 19.86%

2.2. ACGT Content

Number/percentage of A's	2,732,492,688 / 31%
Number/percentage of C's	1,675,920,644 / 19.01%
Number/percentage of T's	2,731,101,958 / 30.99%
Number/percentage of G's	1,674,462,531 / 19%
Number/percentage of N's	29,312 / 0%
GC Percentage	38.01%

2.3. Coverage



Mean	28.3551
Standard Deviation	195.0521

2.4. Mapping Quality

Mean Mapping Quality	44.43

2.5. Insert size

Mean	238,958.38
Standard Deviation	2,329,486.07
P25/Median/P75	351 / 456 / 595

2.6. Mismatches and indels

General error rate	2.29%
Mismatches	185,630,102
Insertions	5,891,321
Mapped reads with at least one insertion	8.37%
Deletions	6,015,987
Mapped reads with at least one deletion	8.47%
Homopolymer indels	57.35%

2.7. Chromosome stats

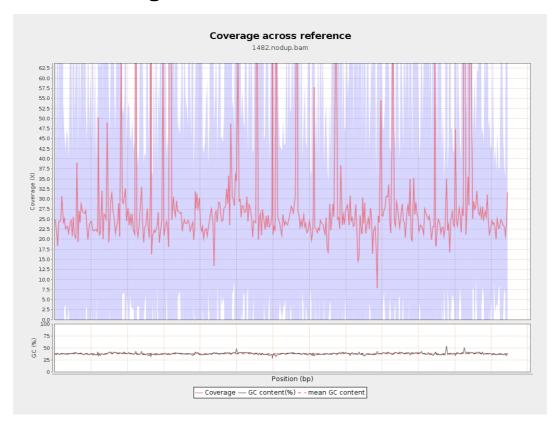
Name	Length	Mapped bases	Mean coverage	Standard deviation
LT669788.1	29724344	717551313	24.1402	68.1765



LT669789.1	36598175	1073875111	29.3423	221.3924
LT669790.1	30422129	948865783	31.19	235.0536
LT669791.1	52758100	1485597901	28.1587	177.655
LT669792.1	28376109	806841888	28.4338	239.9528
LT669793.1	33388210	891379875	26.6974	150.9784
LT669794.1	50579949	1374065376	27.1662	172.7546
LT669795.1	49795044	1538460014	30.8958	231.6842

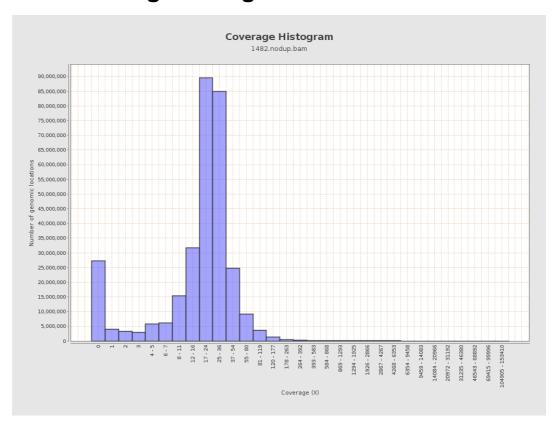


3. Results: Coverage across reference



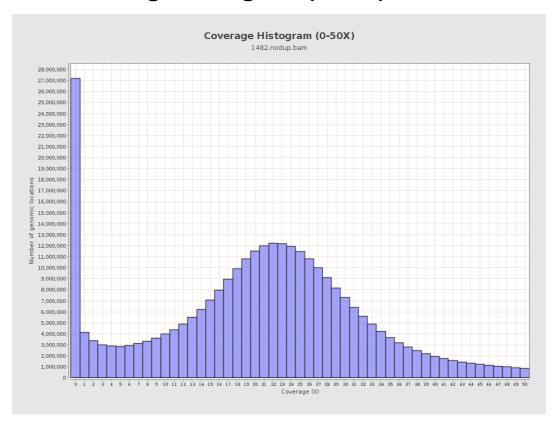


4. Results : Coverage Histogram



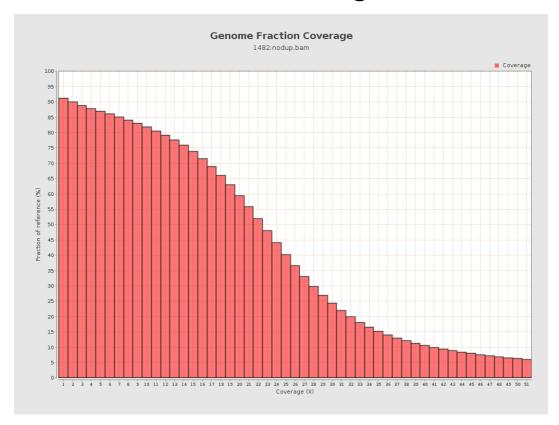


5. Results: Coverage Histogram (0-50X)



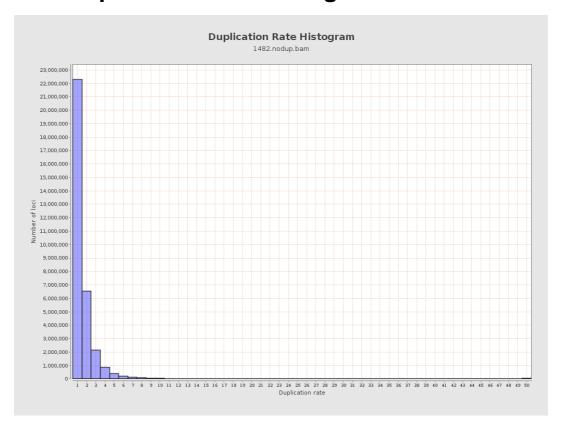


6. Results : Genome Fraction Coverage





7. Results: Duplication Rate Histogram



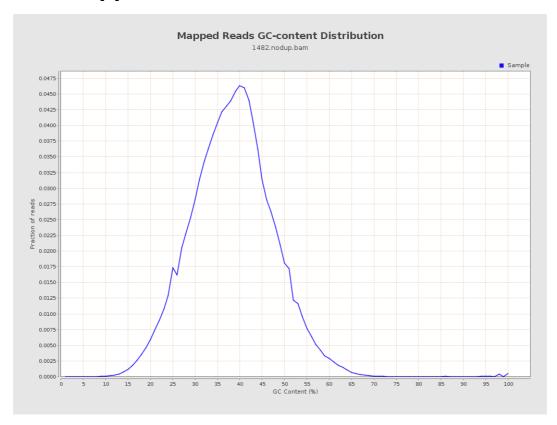


8. Results: Mapped Reads Nucleotide Content



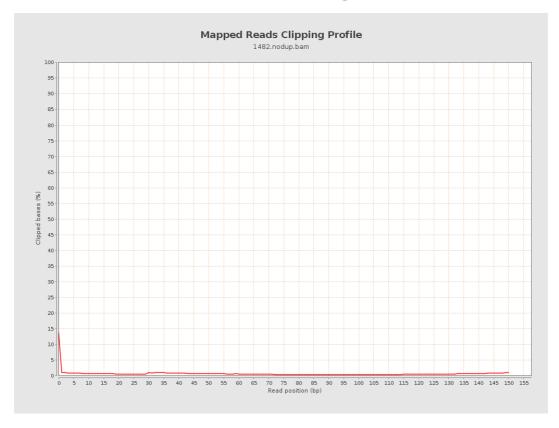


9. Results: Mapped Reads GC-content Distribution



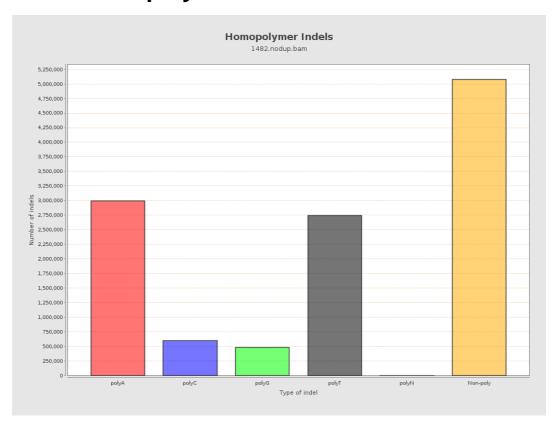


10. Results: Mapped Reads Clipping Profile



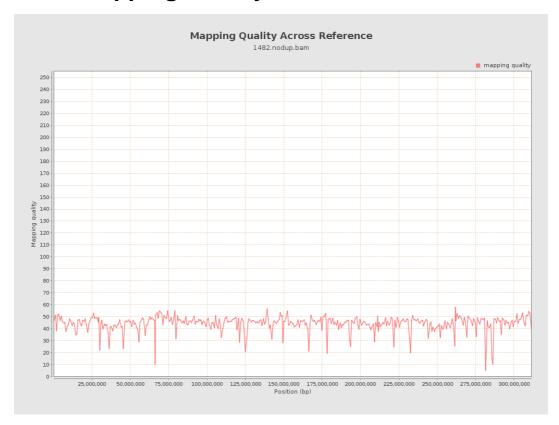


11. Results : Homopolymer Indels



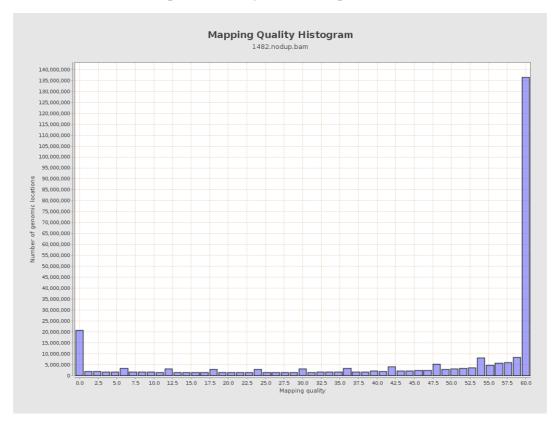


12. Results: Mapping Quality Across Reference



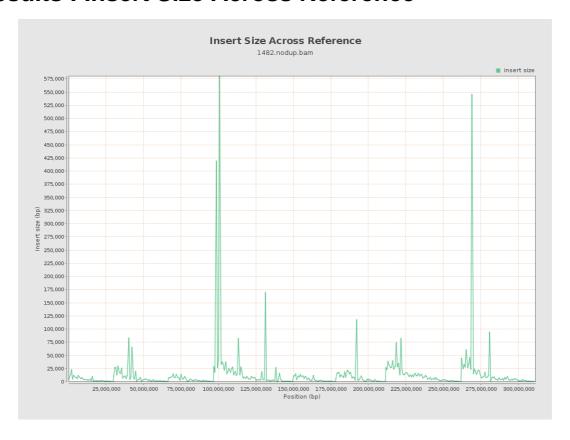


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

