Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:00:38



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM292.sorted.bam.ba m -nw 400 -hm 3

1.2. Alignment

a mem -M
=
me/vdp5/data/salvador_vivax_asia
016/first-
MEA2376790/pvivax_sal1_SAME
376790.fasta
me/vdp5/data/cambodia_samples/
uences_gz/OM292-
oBarcode31_CACGAT_R1.fastq.g
me/vdp5/data/cambodia_samples/
uences_gz/OM292-
oBarcode31_CACGAT_R2.fastq.g
a (0.7.15-r1140)
n Oct 23 14:00:37 EDT 2016
)
me/vdp5/data/cambodia_samples/
uences_bam/OM292.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	4,187,474
Mapped reads	1,167,887 / 27.89%
Unmapped reads	3,019,587 / 72.11%
Mapped paired reads	1,167,887 / 27.89%
Mapped reads, first in pair	588,135 / 14.05%
Mapped reads, second in pair	579,752 / 13.84%
Mapped reads, both in pair	1,124,387 / 26.85%
Mapped reads, singletons	43,500 / 1.04%
Read min/max/mean length	30 / 100 / 99.95
Duplicated reads (estimated)	102,105 / 2.44%
Duplication rate	6.17%
Clipped reads	147,588 / 3.52%

2.2. ACGT Content

Number/percentage of A's	33,658,881 / 30.11%
Number/percentage of C's	22,188,994 / 19.85%
Number/percentage of T's	33,819,449 / 30.25%
Number/percentage of G's	22,127,260 / 19.79%
Number/percentage of N's	8,973 / 0.01%
GC Percentage	39.64%



2.3. Coverage

Mean	4.6713
Standard Deviation	5.5849

2.4. Mapping Quality

Moon Monning Quality	58.35
Mean Mapping Quality	30.33

2.5. Insert size

Mean	960.22
Standard Deviation	30,772.75
P25/Median/P75	323 / 339 / 349

2.6. Mismatches and indels

General error rate	1.61%
Mismatches	1,710,948
Insertions	38,358
Mapped reads with at least one insertion	3.1%
Deletions	43,351
Mapped reads with at least one deletion	3.48%
Homopolymer indels	62.84%

2.7. Chromosome stats

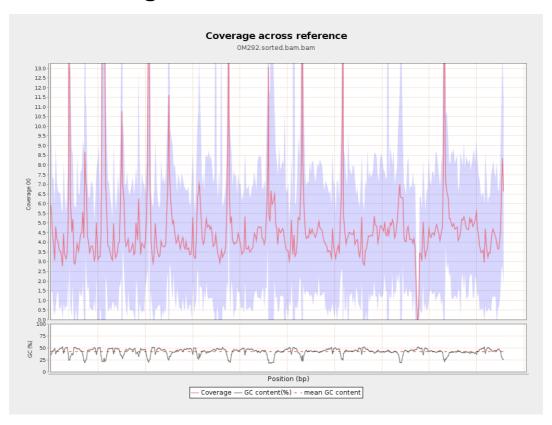
Name	Length	Mapped	Mean	Standard
		bases	coverage	deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	4034440	4.1285	3.4506
gi 107412068 2 emb LT615 257.1	860454	4200985	4.8823	4.9766
gi 107412086 5 emb LT615 258.1	989719	5395620	5.4517	8.6287
gi 107412108 6 emb LT615 259.1	935450	4719078	5.0447	8.006
gi 107412130 1 emb LT615 260.1	1432239	7014814	4.8978	5.3717
gi 107412161 5 emb LT615 261.1	1080962	5107317	4.7248	4.9317
gi 107412187 1 emb LT615 262.1	1545099	6731554	4.3567	2.7307
gi 107412223 5 emb LT615 263.1	1585108	7303864	4.6078	5.5916
gi 107412259 0 emb LT615 264.1	2122358	9516924	4.4841	3.3171
gi 107412305 0 emb LT615 265.1	1754192	8315342	4.7403	8.7817
gi 107412342 1 emb LT615	2150147	10238366	4.7617	8.6473

266.1				
gi 107412389 8 emb LT615 267.1	3031036	13837096	4.5651	4.0094
gi 107412458 8 emb LT615 268.1	2359348	10482859	4.4431	4.8358
gi 107412506 5 emb LT615 269.1	3135668	15020352	4.7902	2.9413

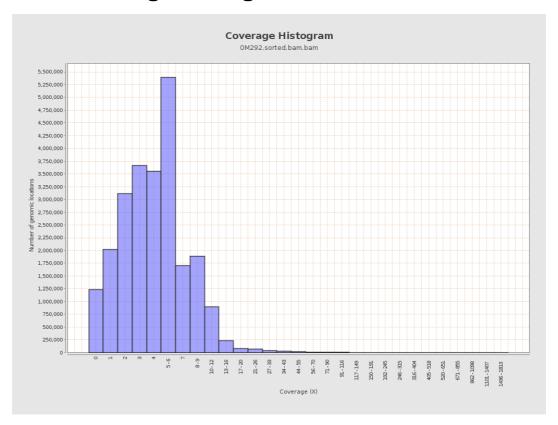


3. Results: Coverage across reference



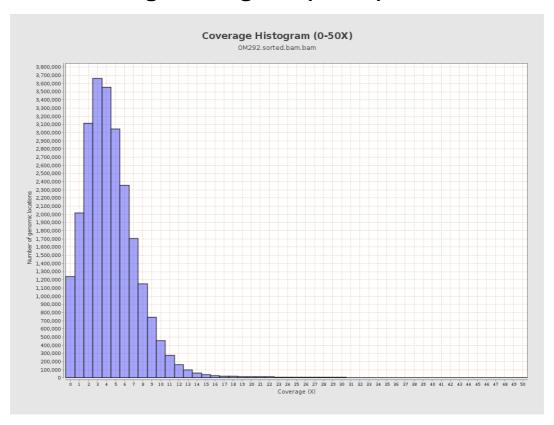


4. Results : Coverage Histogram



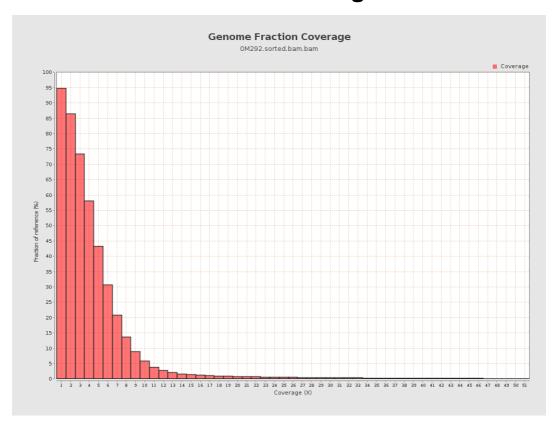


5. Results: Coverage Histogram (0-50X)



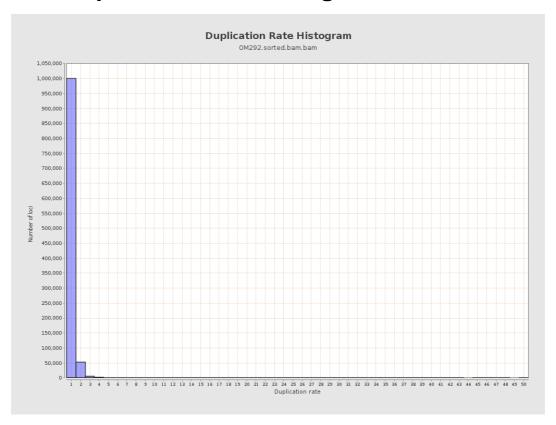


6. Results : Genome Fraction Coverage



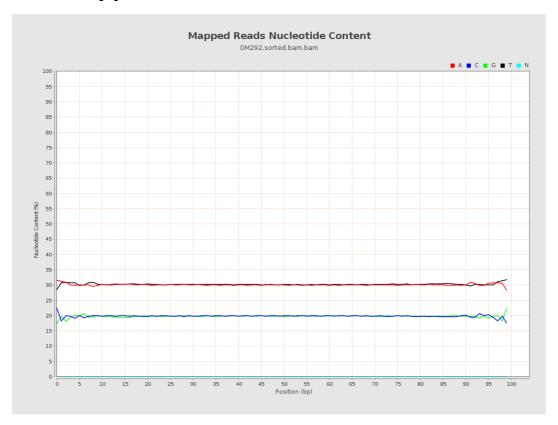


7. Results : Duplication Rate Histogram



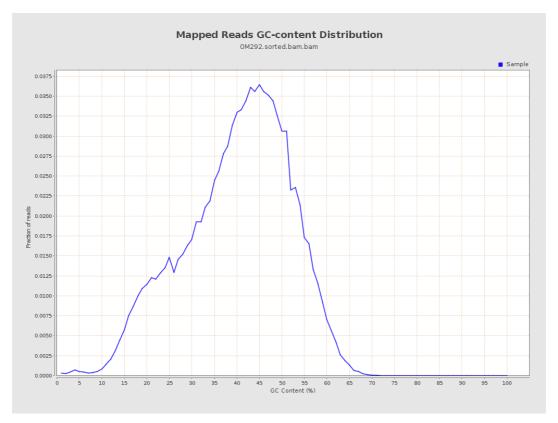


8. Results: Mapped Reads Nucleotide Content



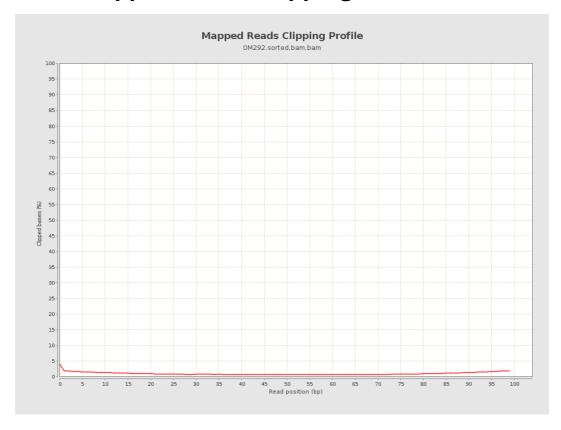


9. Results: Mapped Reads GC-content Distribution



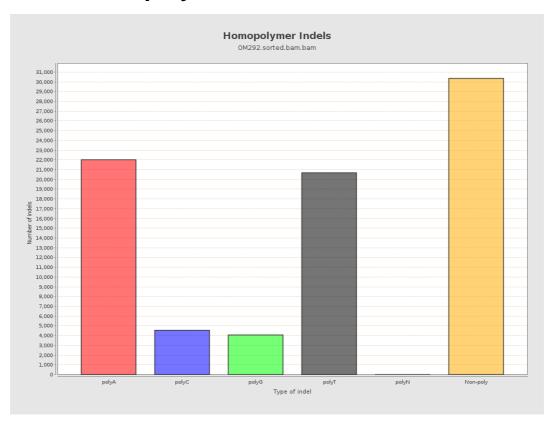


10. Results: Mapped Reads Clipping Profile



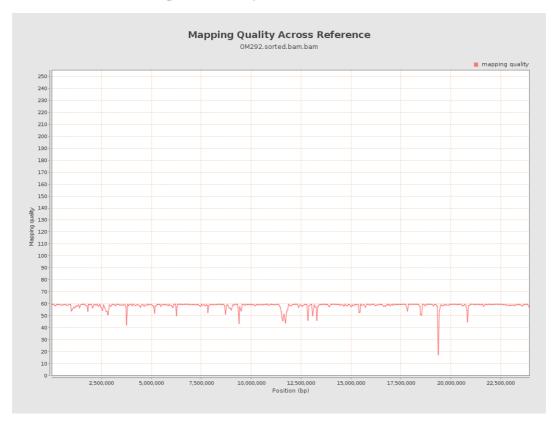


11. Results : Homopolymer Indels



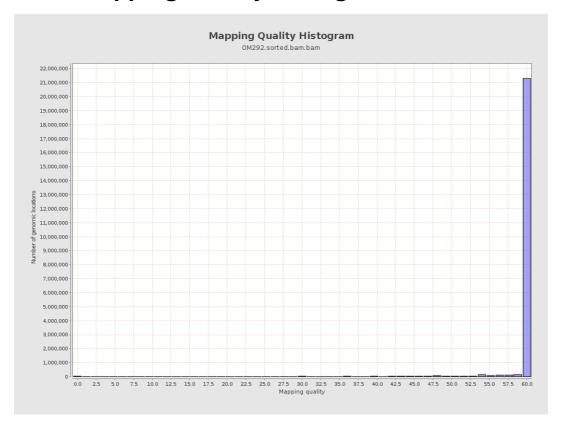


12. Results: Mapping Quality Across Reference





13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

