Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:59:58



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM284.sorted.bam.ba m -nw 400 -hm 3

1.2. Alignment

Command line:	bwa mem -M
	/home/vdp5/data/salvador_vivax_asia
	_2016/first-
	SAMEA2376790/pvivax_sal1_SAME
	A2376790.fasta
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM284-
	BiooBarcode30_CACCGG_R2.fastq.
	gz
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM284-
	BiooBarcode30_CACCGG_R1.fastq.
	gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:59:58 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM284.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	6,525,218
Mapped reads	1,574,511 / 24.13%
Unmapped reads	4,950,707 / 75.87%
Mapped paired reads	1,574,511 / 24.13%
Mapped reads, first in pair	783,608 / 12.01%
Mapped reads, second in pair	790,903 / 12.12%
Mapped reads, both in pair	1,513,340 / 23.19%
Mapped reads, singletons	61,171 / 0.94%
Read min/max/mean length	30 / 100 / 99.96
Duplicated reads (estimated)	162,346 / 2.49%
Duplication rate	7.22%
Clipped reads	206,929 / 3.17%

2.2. ACGT Content

Number/percentage of A's	45,573,820 / 30.31%
Number/percentage of C's	29,546,888 / 19.65%
Number/percentage of T's	45,768,293 / 30.44%
Number/percentage of G's	29,482,932 / 19.61%
Number/percentage of N's	12,188 / 0.01%
GC Percentage	39.26%



2.3. Coverage

Mean	6.2833
Standard Deviation	7.987

2.4. Mapping Quality

NA NA	50.00	
Mean Mapping Quality	58.22	
3 3 3 3 3		

2.5. Insert size

Mean	945.1	
Standard Deviation	29,201.48	
P25/Median/P75	313 / 325 / 335	

2.6. Mismatches and indels

General error rate	1.65%
Mismatches	2,362,861
Insertions	52,718
Mapped reads with at least one insertion	3.17%
Deletions	60,048
Mapped reads with at least one deletion	3.57%
Homopolymer indels	62.33%

2.7. Chromosome stats

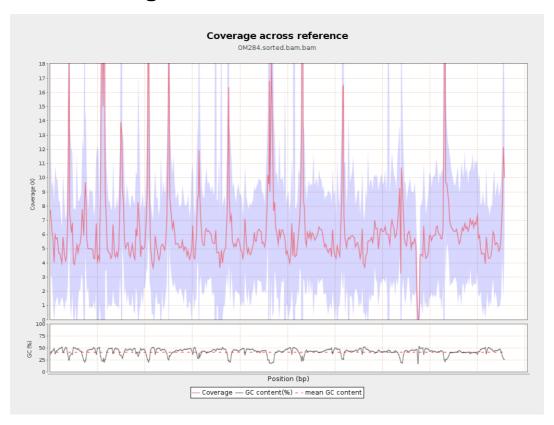
Name	Length	Mapped bases	Mean coverage	Standard deviation

.00000000000000000000000000000000000000		\$5550000000000000000000000000000000000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	5348900	5.4736	3.8016
gi 107412068 2 emb LT615 257.1	860454	5451566	6.3357	6.4537
gi 107412086 5 emb LT615 258.1	989719	7411320	7.4883	10.817
gi 107412108 6 emb LT615 259.1	935450	6868624	7.3426	11.8195
gi 107412130 1 emb LT615 260.1	1432239	9374866	6.5456	7.0378
gi 107412161 5 emb LT615 261.1	1080962	6811079	6.3009	6.8375
gi 107412187 1 emb LT615 262.1	1545099	8899638	5.7599	3.5671
gi 107412223 5 emb LT615 263.1	1585108	9628794	6.0745	8.3345
gi 107412259 0 emb LT615 264.1	2122358	12387954	5.8369	3.8567
gi 107412305 0 emb LT615 265.1	1754192	12372764	7.0533	14.7649
gi 107412342 1 emb LT615	2150147	13654787	6.3506	11.8136

266.1				
gi 107412389 8 emb LT615 267.1	3031036	17969181	5.9284	4.9472
gi 107412458 8 emb LT615 268.1	2359348	14640641	6.2054	7.7425
gi 107412506 5 emb LT615 269.1	3135668	19720308	6.289	3.8082

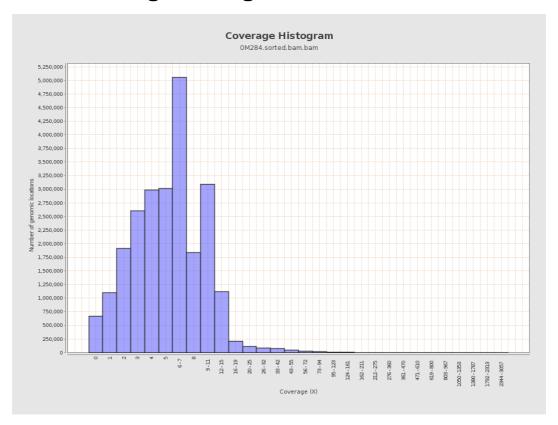


3. Results : Coverage across reference



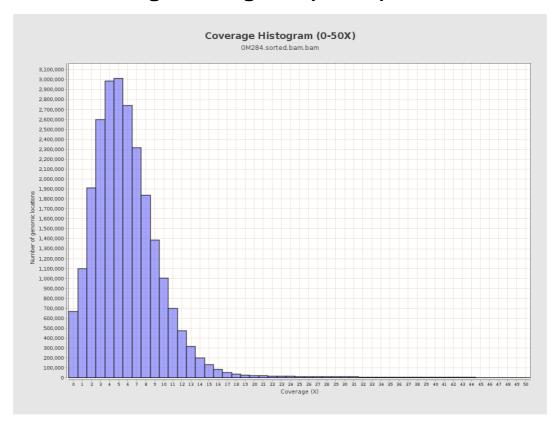


4. Results : Coverage Histogram



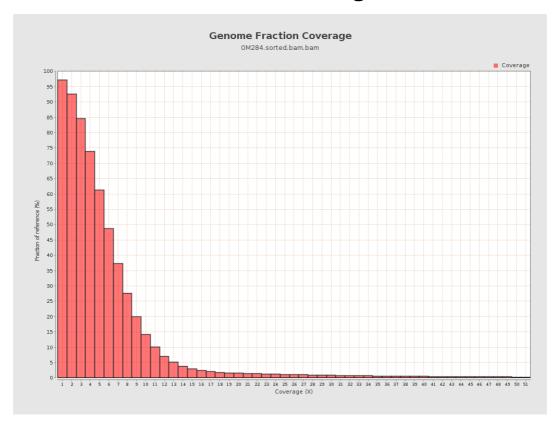


5. Results: Coverage Histogram (0-50X)



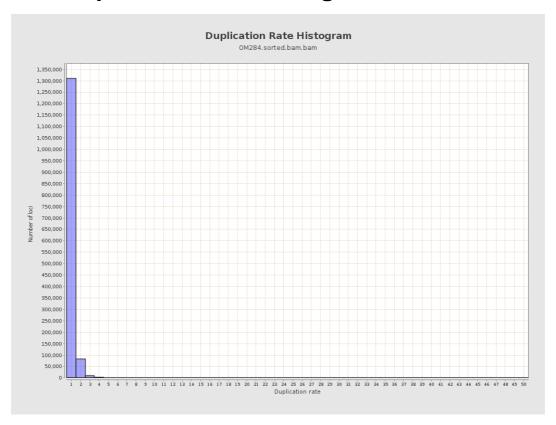


6. Results : Genome Fraction Coverage



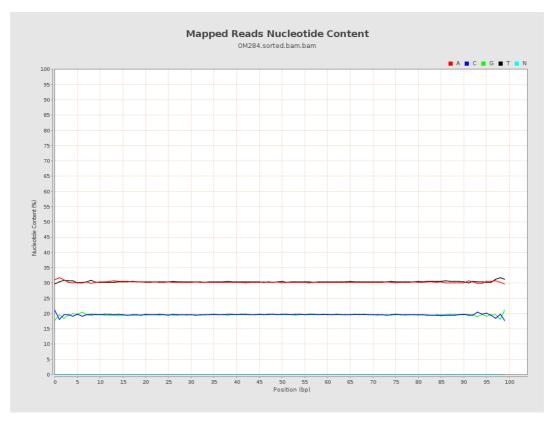


7. Results: Duplication Rate Histogram



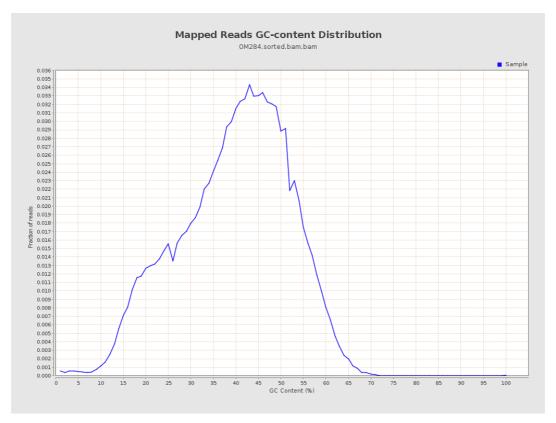


8. Results: Mapped Reads Nucleotide Content



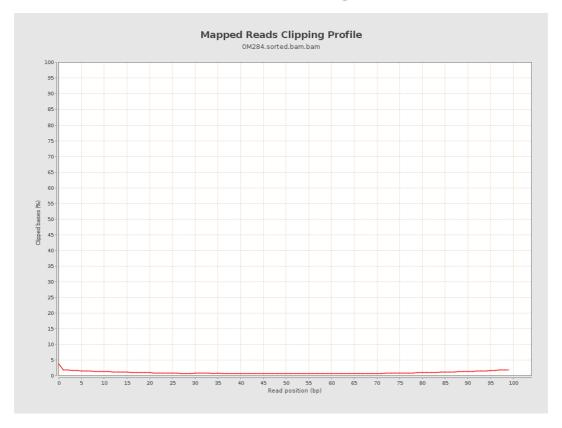


9. Results: Mapped Reads GC-content Distribution



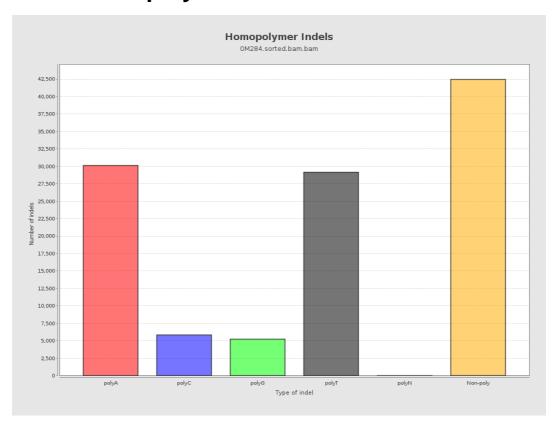


10. Results: Mapped Reads Clipping Profile



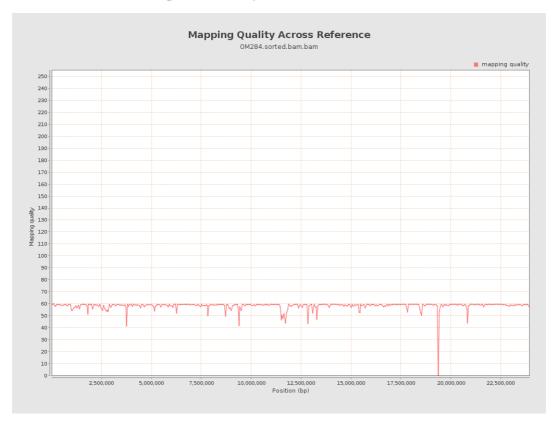


11. Results : Homopolymer Indels



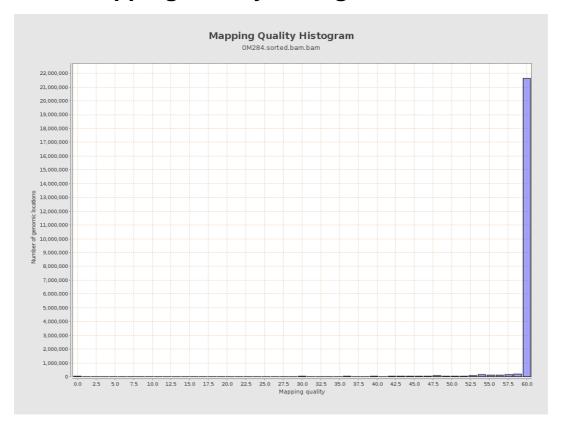


12. Results: Mapping Quality Across Reference



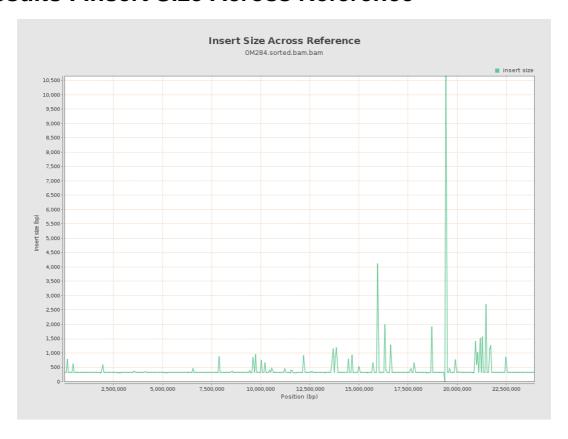


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

