Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:25:49



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM325.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/OM325-
	BiooBarcode35_CATTTT_R1.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM325-
	BiooBarcode35_CATTTT_R2.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:25:48 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM325.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997	
Number of reads	27,168,106	
Mapped reads	3,538,026 / 13.02%	
Unmapped reads	23,630,080 / 86.98%	
Mapped paired reads	3,538,026 / 13.02%	
Mapped reads, first in pair	1,780,337 / 6.55%	
Mapped reads, second in pair	1,757,689 / 6.47%	
Mapped reads, both in pair	3,312,826 / 12.19%	
Mapped reads, singletons	225,200 / 0.83%	
Read min/max/mean length	30 / 100 / 99.97	
Duplicated reads (estimated)	725,468 / 2.67%	
Duplication rate	14.6%	
Clipped reads	542,354 / 2%	

2.2. ACGT Content

Number/percentage of A's	100,504,678 / 30.21%
Number/percentage of C's	65,530,841 / 19.7%
Number/percentage of T's	101,243,231 / 30.44%
Number/percentage of G's	65,374,123 / 19.65%
Number/percentage of N's	27,060 / 0.01%
GC Percentage	39.35%



2.3. Coverage

Mean	13.8999
Standard Deviation	27.1862

2.4. Mapping Quality

Mean Mapping Quality	57 57	
would wapping addity	01.01	

2.5. Insert size

Mean	1,002.59	
Standard Deviation	31,250.27	
P25/Median/P75	333 / 348 / 357	

2.6. Mismatches and indels

General error rate	1.63%	
Mismatches	5,149,736	
Insertions	116,034	
Mapped reads with at least one insertion	3.08%	
Deletions	133,381	
Mapped reads with at least one deletion	3.48%	
Homopolymer indels	61.8%	

2.7. Chromosome stats

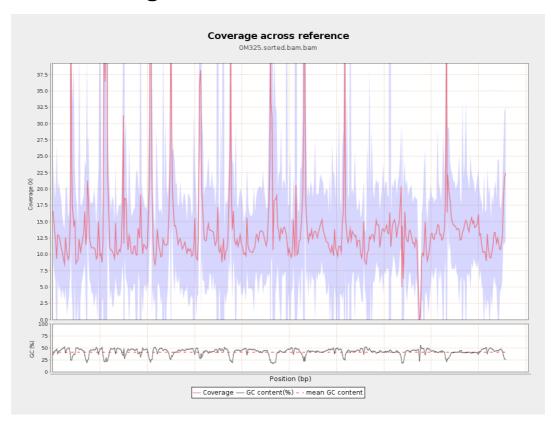
Name	Length	Mapped bases	Mean coverage	Standard deviation

		30.4.0.900000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	12006795	12.2867	10.1688
gi 107412068 2 emb LT615 257.1	860454	11188978	13.0036	14.6832
gi 107412086 5 emb LT615 258.1	989719	15940100	16.1057	28.4497
gi 107412108 6 emb LT615 259.1	935450	15306841	16.3631	24.4316
gi 107412130 1 emb LT615 260.1	1432239	21071704	14.7124	19.3799
gi 107412161 5 emb LT615 261.1	1080962	15365088	14.2143	18.1391
gi 107412187 1 emb LT615 262.1	1545099	21436059	13.8736	10.4907
gi 107412223 5 emb LT615 263.1	1585108	21945363	13.8447	35.8548
gi 107412259 0 emb LT615 264.1	2122358	27875925	13.1344	10.0617
gi 107412305 0 emb LT615 265.1	1754192	26065872	14.8592	70.5704
gi 107412342 1 emb LT615	2150147	32097776	14.9282	30.8219

266.1				
gi 107412389 8 emb LT615 267.1	3031036	40361063	13.3159	21.1227
gi 107412458 8 emb LT615 268.1	2359348	28820475	12.2154	12.4583
gi 107412506 5 emb LT615 269.1	3135668	43545072	13.887	8.3915

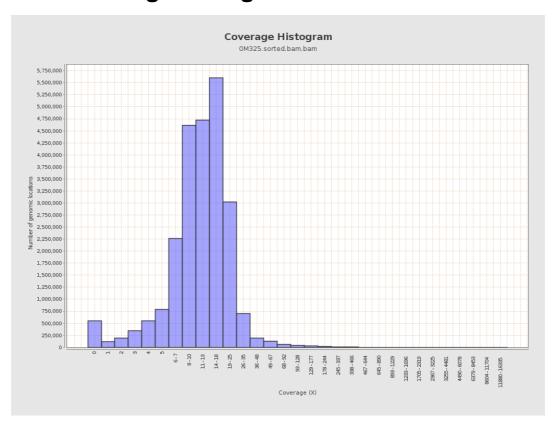


3. Results: Coverage across reference



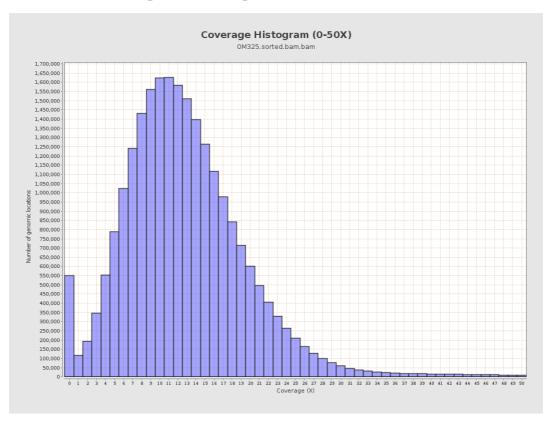


4. Results : Coverage Histogram



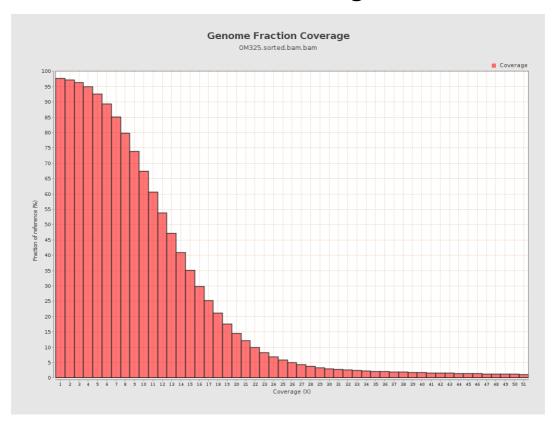


5. Results: Coverage Histogram (0-50X)



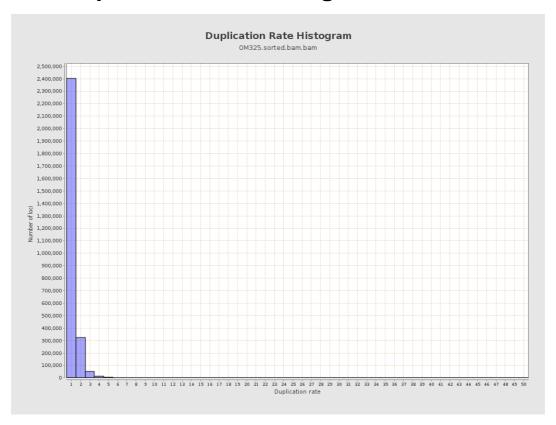


6. Results : Genome Fraction Coverage



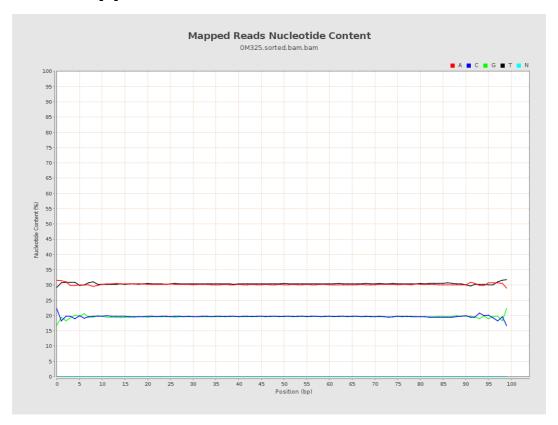


7. Results: Duplication Rate Histogram



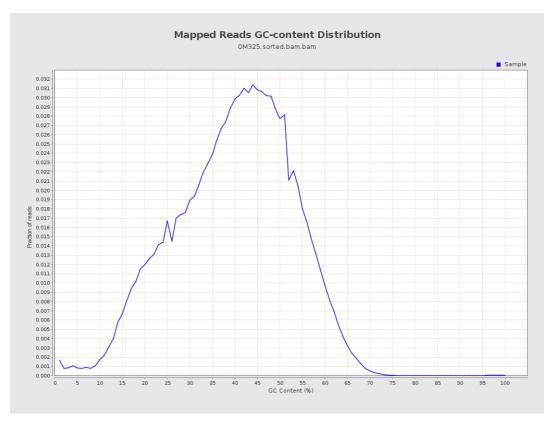


8. Results: Mapped Reads Nucleotide Content



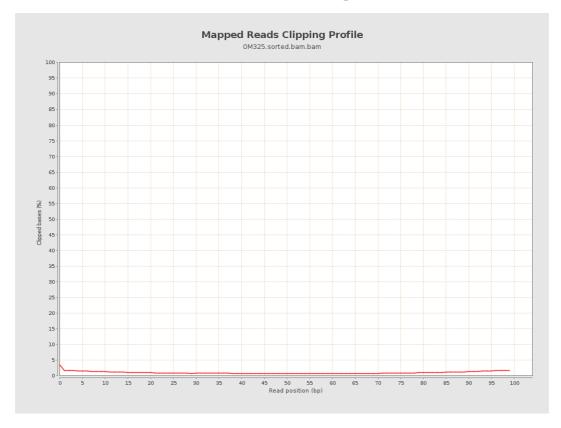


9. Results: Mapped Reads GC-content Distribution



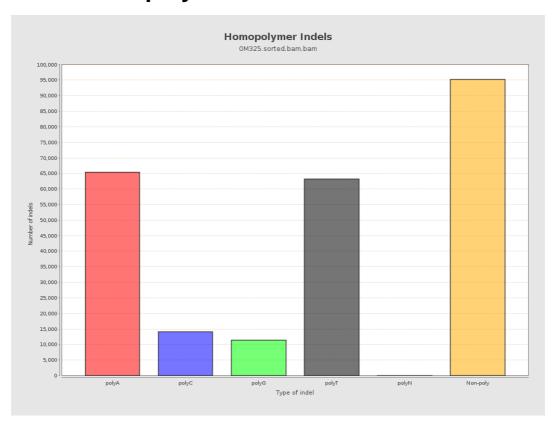


10. Results: Mapped Reads Clipping Profile



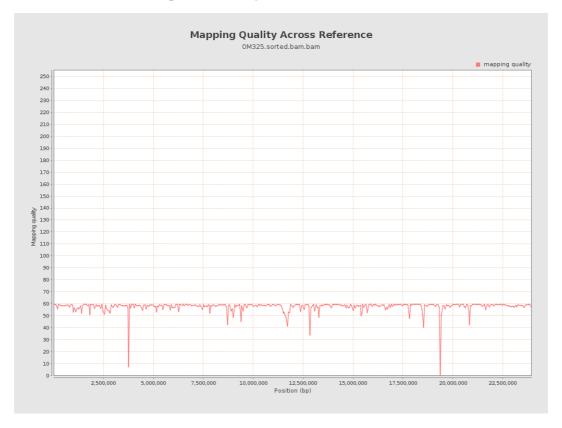


11. Results : Homopolymer Indels



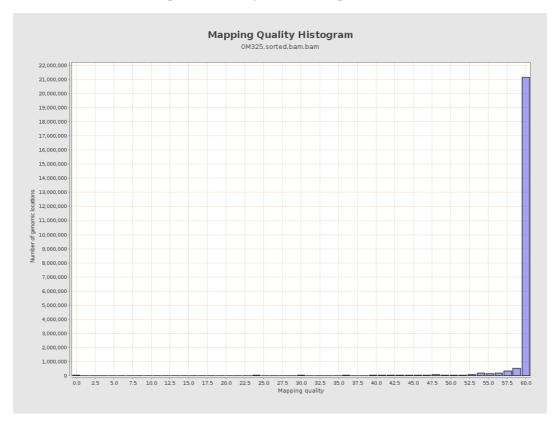


12. Results: Mapping Quality Across Reference



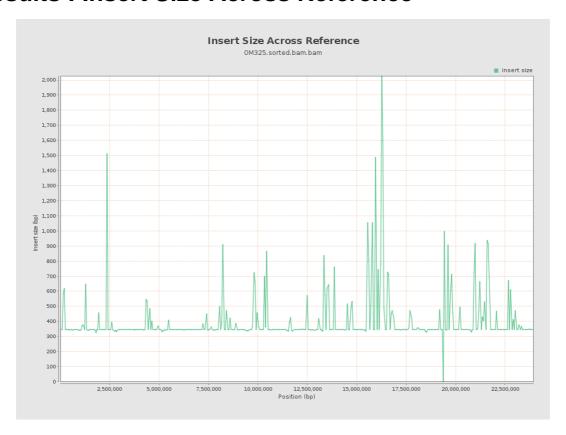


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

