Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:01:25



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM299.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/OM299-
	BiooBarcode33_CAGGCG_R1.fastq.
	gz
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM299-
	BiooBarcode33_CAGGCG_R2.fastq.
	gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:01:24 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM299.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	2,096,324
Mapped reads	1,338,286 / 63.84%
Unmapped reads	758,038 / 36.16%
Mapped paired reads	1,338,286 / 63.84%
Mapped reads, first in pair	671,840 / 32.05%
Mapped reads, second in pair	666,446 / 31.79%
Mapped reads, both in pair	1,306,844 / 62.34%
Mapped reads, singletons	31,442 / 1.5%
Read min/max/mean length	30 / 100 / 99.91
Duplicated reads (estimated)	127,490 / 6.08%
Duplication rate	6.69%
Clipped reads	168,651 / 8.05%

2.2. ACGT Content

Number/percentage of A's	39,061,165 / 30.35%	
Number/percentage of C's	25,273,616 / 19.64%	
Number/percentage of T's	39,138,016 / 30.41%	
Number/percentage of G's	25,242,104 / 19.61%	
Number/percentage of N's	10,422 / 0.01%	
GC Percentage	39.25%	



2.3. Coverage

Mean	5.3782
Standard Deviation	6.3028

2.4. Mapping Quality

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Mean Mapping Quality	58.68	
11 0		

2.5. Insert size

Mean	906.54	
Standard Deviation	25,462.99	
P25/Median/P75	340 / 356 / 365	

2.6. Mismatches and indels

General error rate	1.77%
Mismatches	2,176,344
Insertions	45,337
Mapped reads with at least one insertion	3.21%
Deletions	52,332
Mapped reads with at least one deletion	3.68%
Homopolymer indels	62.16%

2.7. Chromosome stats

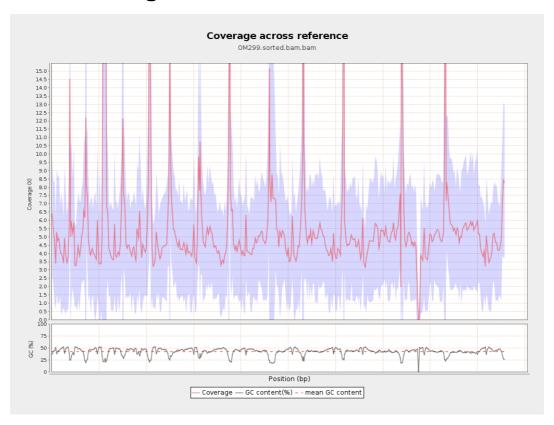
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	4573684	4.6803	3.2456
gi 107412068 2 emb LT615 257.1	860454	4481604	5.2084	5.0173
gi 107412086 5 emb LT615 258.1	989719	6542335	6.6103	11.735
gi 107412108 6 emb LT615 259.1	935450	5524325	5.9055	10.4719
gi 107412130 1 emb LT615 260.1	1432239	8302398	5.7968	7.5724
gi 107412161 5 emb LT615 261.1	1080962	5967022	5.5201	6.1838
gi 107412187 1 emb LT615 262.1	1545099	7693292	4.9792	3.1579
gi 107412223 5 emb LT615 263.1	1585108	8376322	5.2844	5.2764
gi 107412259 0 emb LT615 264.1	2122358	10724181	5.053	3.7546
gi 107412305 0 emb LT615 265.1	1754192	9448876	5.3865	4.8779
gi 107412342 1 emb LT615	2150147	12252439	5.6984	10.1295

266.1				
gi 107412389 8 emb LT615 267.1	3031036	15366848	5.0698	3.8481
gi 107412458 8 emb LT615 268.1	2359348	12889062	5.463	7.4012
gi 107412506 5 emb LT615 269.1	3135668	16714218	5.3304	2.9901

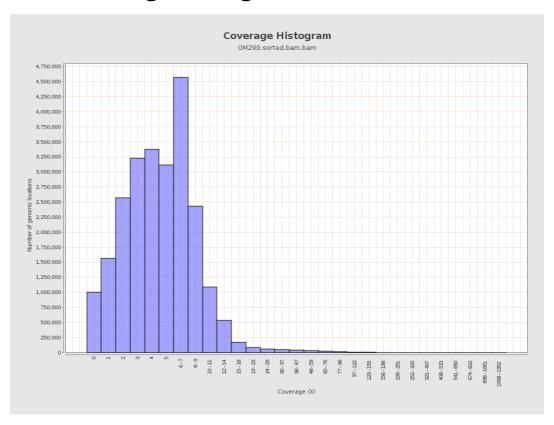


3. Results : Coverage across reference



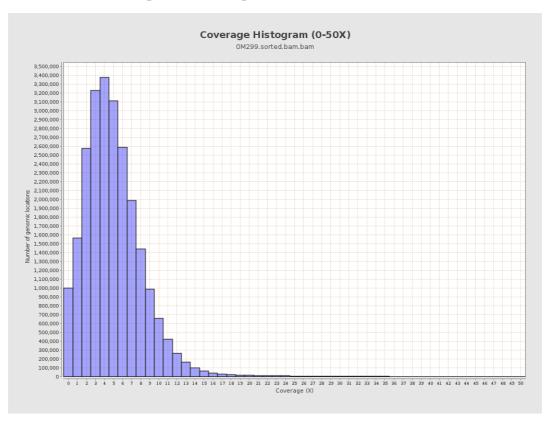


4. Results : Coverage Histogram



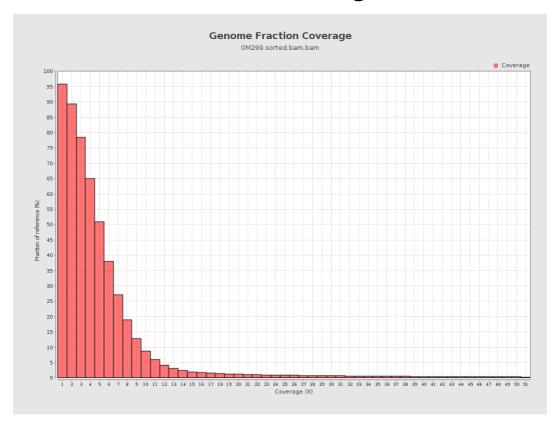


5. Results: Coverage Histogram (0-50X)



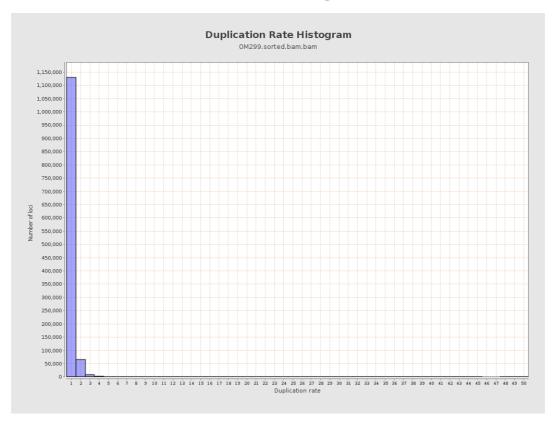


6. Results : Genome Fraction Coverage



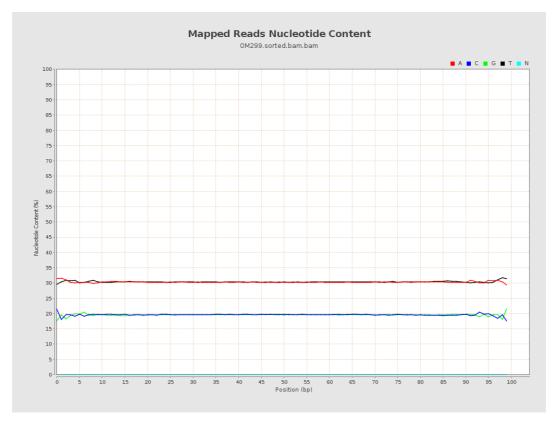


7. Results : Duplication Rate Histogram



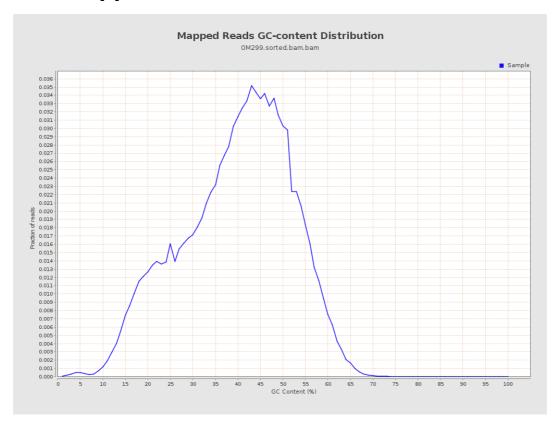


8. Results: Mapped Reads Nucleotide Content



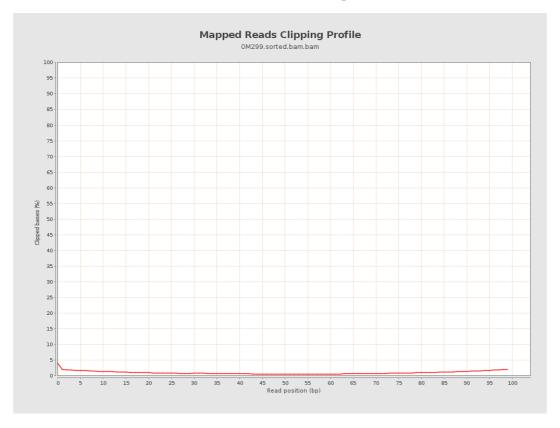


9. Results: Mapped Reads GC-content Distribution



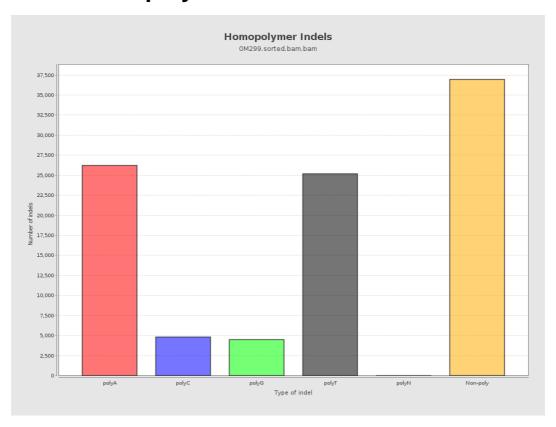


10. Results: Mapped Reads Clipping Profile



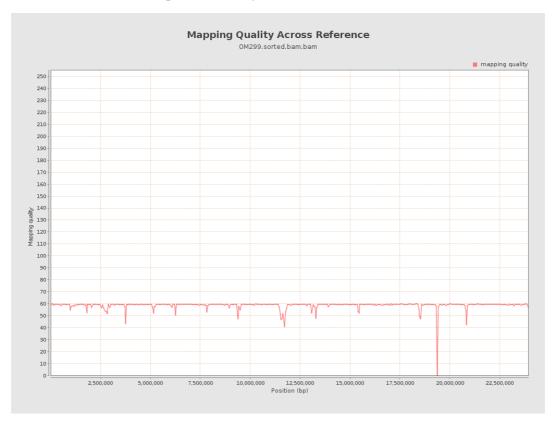


11. Results : Homopolymer Indels



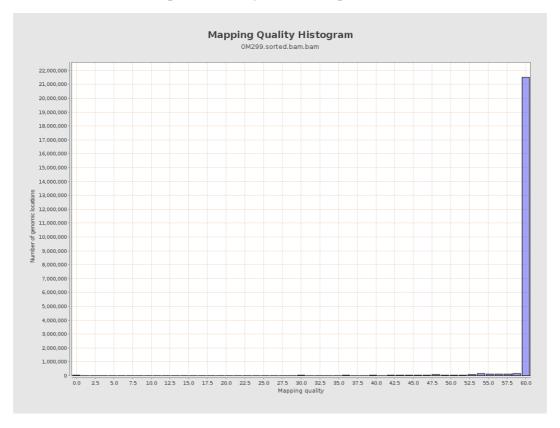


12. Results: Mapping Quality Across Reference



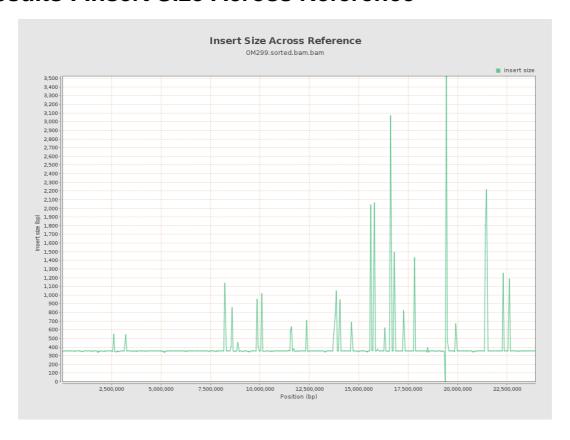


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

