Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:40:25



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM164.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/OM164-
	BiooBarcode18_GTCCGC_R2.fastq.
	gz
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM164-
	BiooBarcode18_GTCCGC_R1.fastq.
	gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:40:25 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM164.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	10,370,392
Mapped reads	6,819,282 / 65.76%
Unmapped reads	3,551,110 / 34.24%
Mapped paired reads	6,819,282 / 65.76%
Mapped reads, first in pair	3,400,575 / 32.79%
Mapped reads, second in pair	3,418,707 / 32.97%
Mapped reads, both in pair	6,688,421 / 64.5%
Mapped reads, singletons	130,861 / 1.26%
Read min/max/mean length	30 / 100 / 99.9
Duplicated reads (estimated)	1,467,773 / 14.15%
Duplication rate	17.58%
Clipped reads	749,924 / 7.23%

2.2. ACGT Content

Number/percentage of A's	197,628,004 / 29.97%
Number/percentage of C's	131,946,721 / 20.01%
Number/percentage of T's	198,207,002 / 30.05%
Number/percentage of G's	131,722,035 / 19.97%
Number/percentage of N's	54,150 / 0.01%
GC Percentage	39.98%



2.3. Coverage

Mean	27.5553
Standard Deviation	25.6765

2.4. Mapping Quality

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Mean Mapping Quality	58.71

2.5. Insert size

Mean	772.11
Standard Deviation	21,334.27
P25/Median/P75	323 / 335 / 344

2.6. Mismatches and indels

General error rate	1.57%
Mismatches	9,844,968
Insertions	210,091
Mapped reads with at least one insertion	2.93%
Deletions	241,538
Mapped reads with at least one deletion	3.35%
Homopolymer indels	63.37%

2.7. Chromosome stats

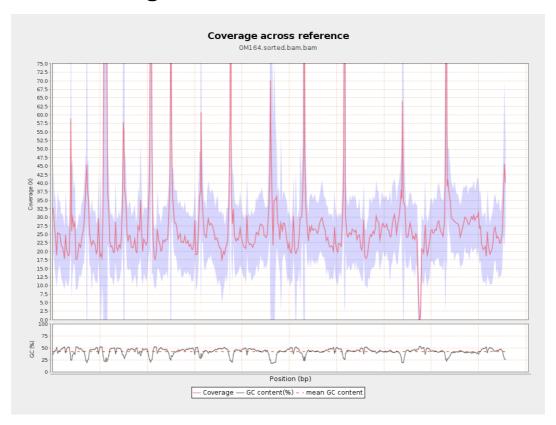
Name	Length	Mapped bases	Mean coverage	Standard deviation

	0.00.00 .0	30.4.0.4.000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	23409563	23.9553	12.0662
gi 107412068 2 emb LT615 257.1	860454	22803906	26.5022	19.0077
gi 107412086 5 emb LT615 258.1	989719	32452962	32.7901	47.14
gi 107412108 6 emb LT615 259.1	935450	27737678	29.6517	41.5548
gi 107412130 1 emb LT615 260.1	1432239	40822135	28.5023	26.7822
gi 107412161 5 emb LT615 261.1	1080962	31652494	29.2818	34.0386
gi 107412187 1 emb LT615 262.1	1545099	39643908	25.6578	11.1842
gi 107412223 5 emb LT615 263.1	1585108	43146079	27.2196	19.2316
gi 107412259 0 emb LT615 264.1	2122358	55795480	26.2894	14.4409
gi 107412305 0 emb LT615 265.1	1754192	48529867	27.6651	22.1184
gi 107412342 1 emb LT615	2150147	62932194	29.2688	44.5329

				CENTRO DE INVESTIGACION
266.1				
gi 107412389 8 emb LT615 267.1	3031036	80512799	26.5628	13.3549
gi 107412458 8 emb LT615 268.1	2359348	63722292	27.0084	28.6108
gi 107412506 5 emb LT615 269.1	3135668	87036836	27.757	10.7681

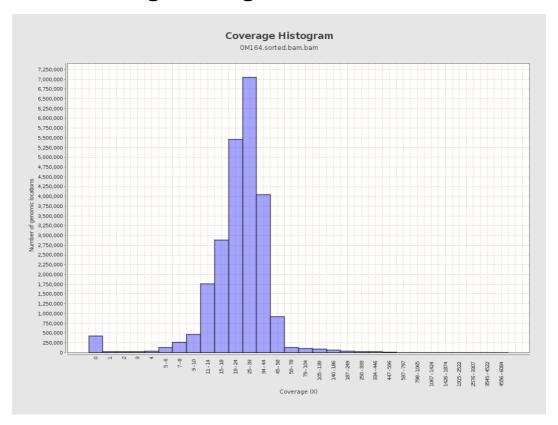


3. Results: Coverage across reference



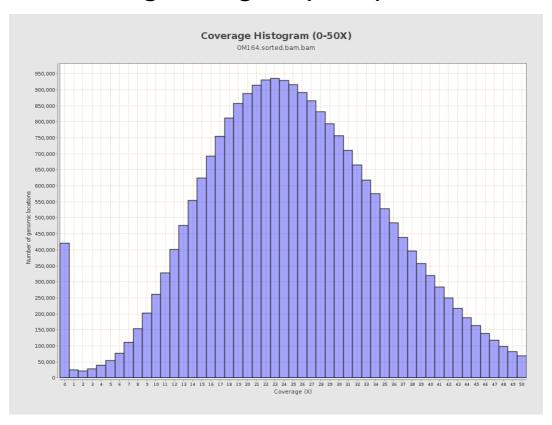


4. Results: Coverage Histogram



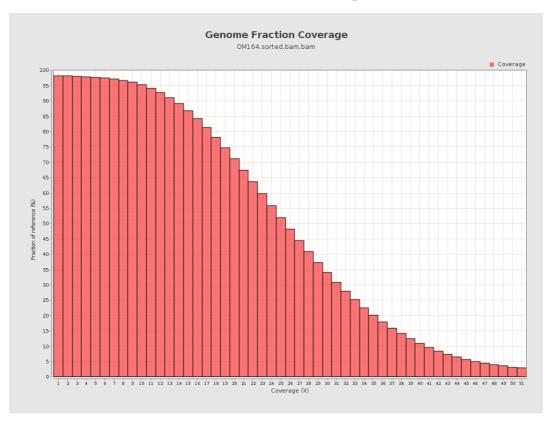


5. Results: Coverage Histogram (0-50X)



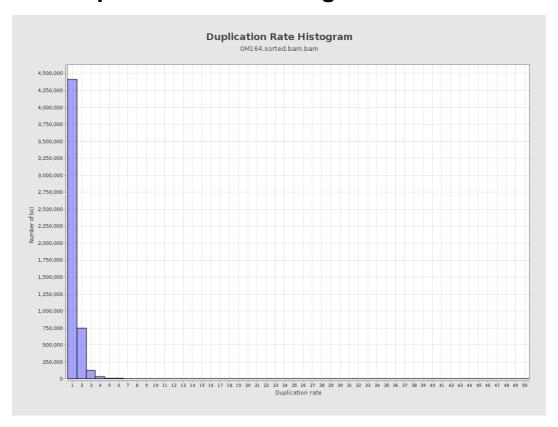


6. Results : Genome Fraction Coverage



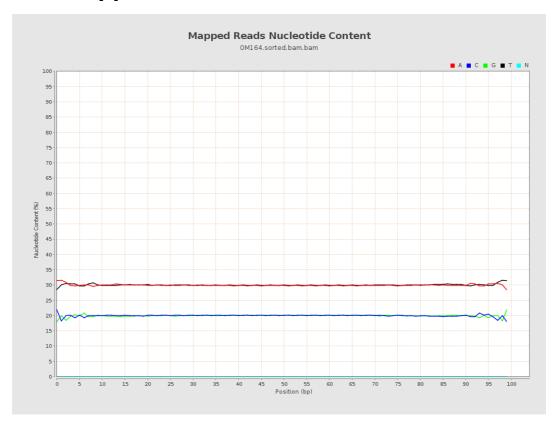


7. Results : Duplication Rate Histogram



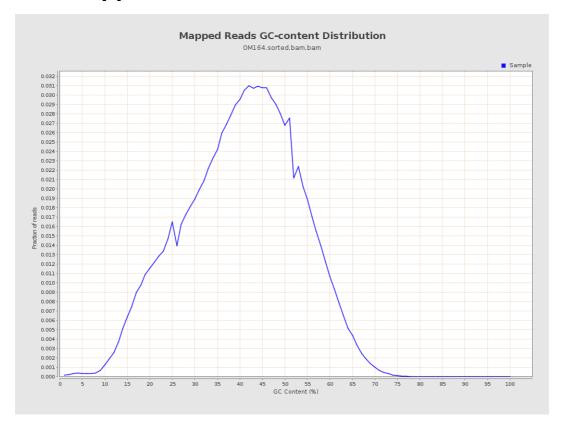


8. Results: Mapped Reads Nucleotide Content



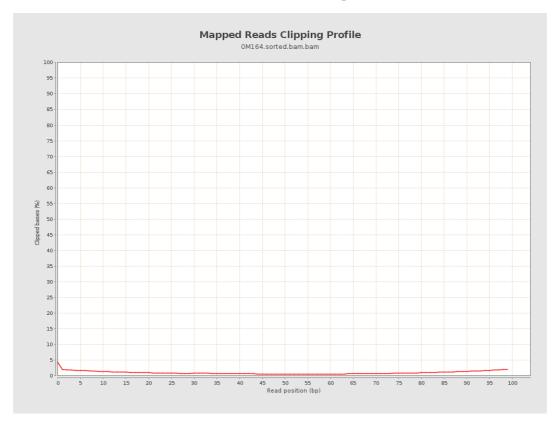


9. Results: Mapped Reads GC-content Distribution



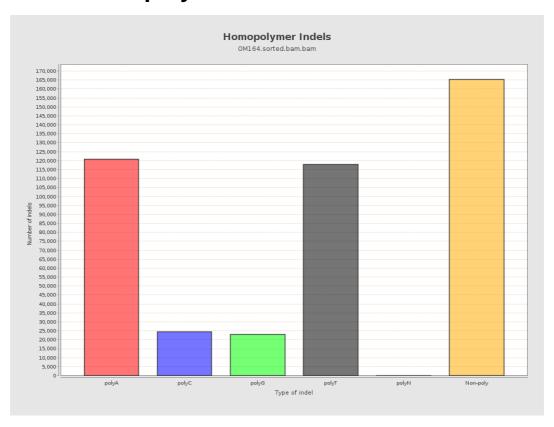


10. Results: Mapped Reads Clipping Profile



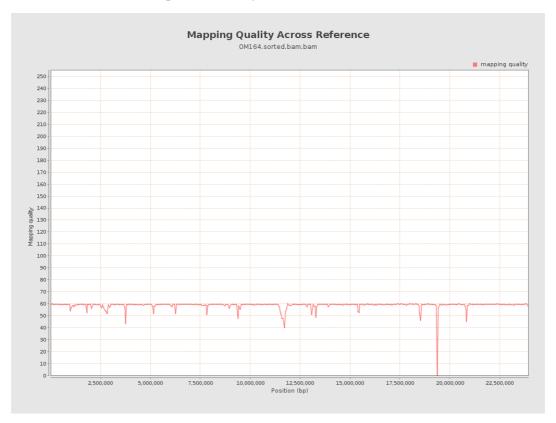


11. Results : Homopolymer Indels



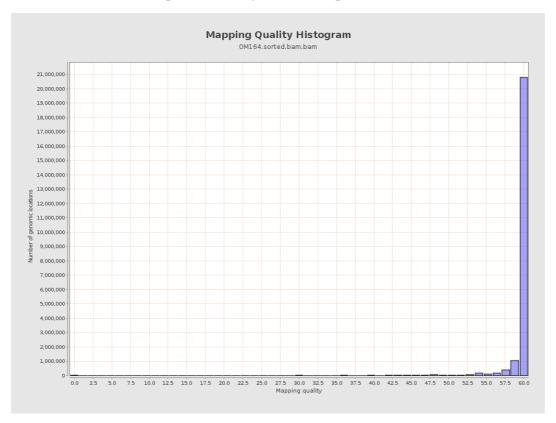


12. Results: Mapping Quality Across Reference



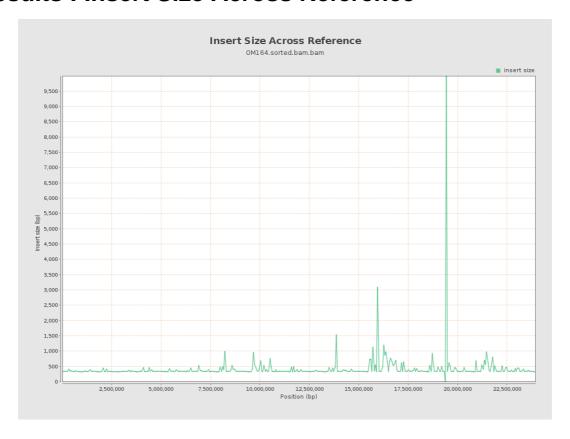


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

