Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:57:55



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM273.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/OM273-
	BiooBarcode26_ATGAGC_R2.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM273-
	BiooBarcode26_ATGAGC_R1.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end	no
reads:	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:57:54 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM273.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997	
Number of reads	4,237,400	
Mapped reads	2,039,732 / 48.14%	
Unmapped reads	2,197,668 / 51.86%	
Mapped paired reads	2,039,732 / 48.14%	
Mapped reads, first in pair	1,016,775 / 24%	
Mapped reads, second in pair	1,022,957 / 24.14%	
Mapped reads, both in pair	1,991,830 / 47.01%	
Mapped reads, singletons	47,902 / 1.13%	
Read min/max/mean length	30 / 100 / 99.92	
Duplicated reads (estimated)	238,009 / 5.62%	
Duplication rate	8.04%	
Clipped reads	258,100 / 6.09%	

2.2. ACGT Content

Number/percentage of A's	59,114,480 / 30.2%
Number/percentage of C's	38,717,087 / 19.78%
Number/percentage of T's	59,257,637 / 30.27%
Number/percentage of G's	38,655,180 / 19.75%
Number/percentage of N's	16,248 / 0.01%
GC Percentage	39.53%



2.3. Coverage

Mean	8.1792
Standard Deviation	9.403

2.4. Mapping Quality

Moon Monning Quality	50.60
Mean Mapping Quality	58.69

2.5. Insert size

Mean	820.91	
Standard Deviation	23,783.59	
P25/Median/P75	302 / 326 / 340	

2.6. Mismatches and indels

General error rate	1.69%	
Mismatches	3,155,416	
Insertions	68,389	
Mapped reads with at least one insertion	3.18%	
Deletions	77,963	
Mapped reads with at least one deletion	3.6%	
Homopolymer indels	61.41%	

2.7. Chromosome stats

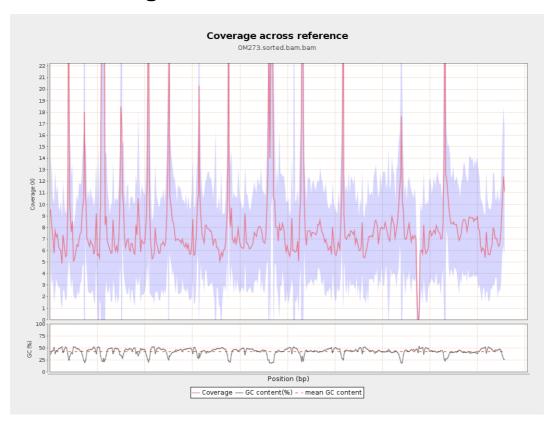
Name	Length	Mapped bases	Mean coverage	Standard deviation

	_			CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	7160608	7.3276	6.3051
gi 107412068 2 emb LT615 257.1	860454	7190549	8.3567	8.0449
gi 107412086 5 emb LT615 258.1	989719	10100717	10.2056	15.8769
gi 107412108 6 emb LT615 259.1	935450	8430348	9.0121	16.4675
gi 107412130 1 emb LT615 260.1	1432239	12321096	8.6027	10.1308
gi 107412161 5 emb LT615 261.1	1080962	8516515	7.8786	7.4002
gi 107412187 1 emb LT615 262.1	1545099	11519468	7.4555	4.2475
gi 107412223 5 emb LT615 263.1	1585108	12384542	7.8131	6.3324
gi 107412259 0 emb LT615 264.1	2122358	16303651	7.6819	5.524
gi 107412305 0 emb LT615 265.1	1754192	17069468	9.7307	12.2508
gi 107412342 1 emb LT615	2150147	18196150	8.4627	15.484

266.1				
gi 107412389 8 emb LT615 267.1	3031036	23272998	7.6782	4.5115
gi 107412458 8 emb LT615 268.1	2359348	18328376	7.7684	10.4605
gi 107412506 5 emb LT615 269.1	3135668	25171558	8.0275	3.861

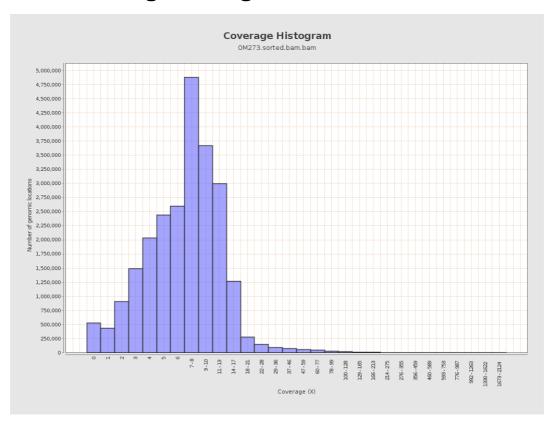


3. Results: Coverage across reference



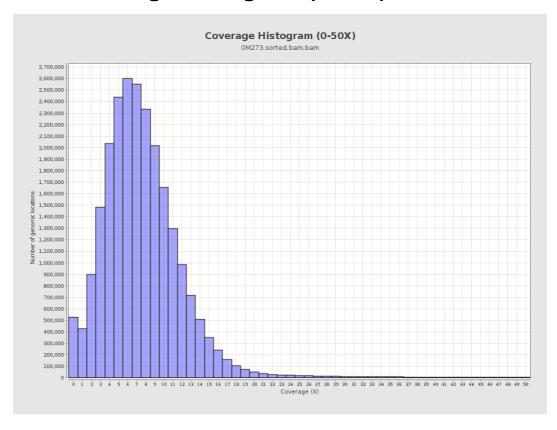


4. Results : Coverage Histogram



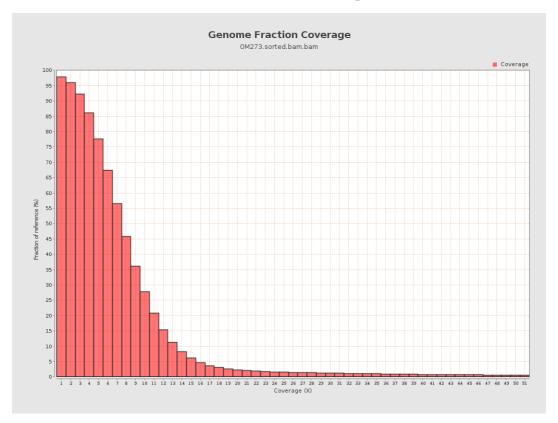


5. Results: Coverage Histogram (0-50X)



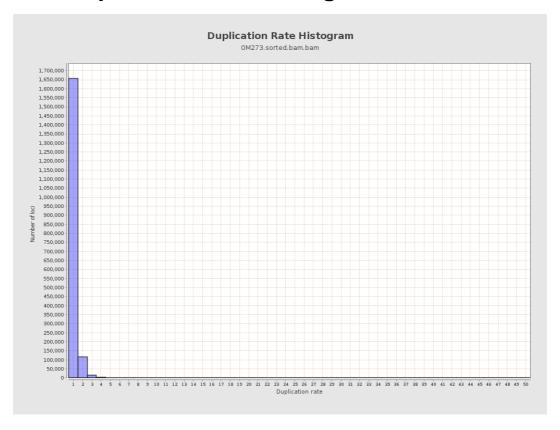


6. Results : Genome Fraction Coverage



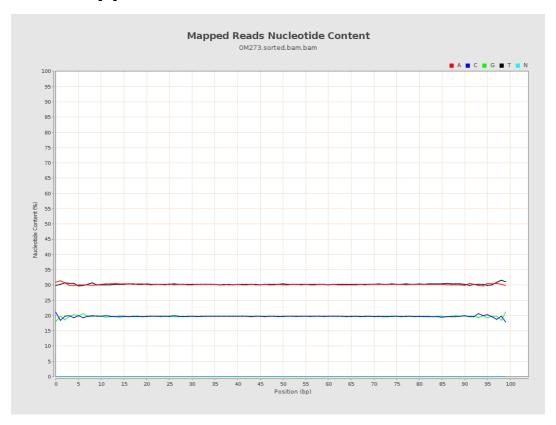


7. Results: Duplication Rate Histogram



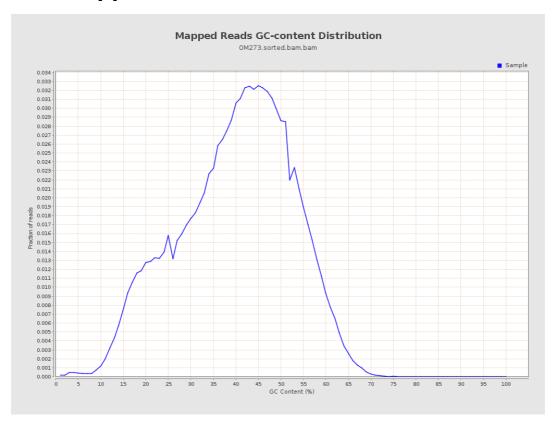


8. Results: Mapped Reads Nucleotide Content



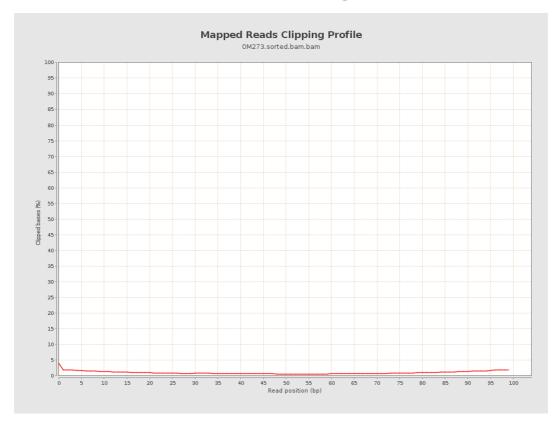


9. Results: Mapped Reads GC-content Distribution



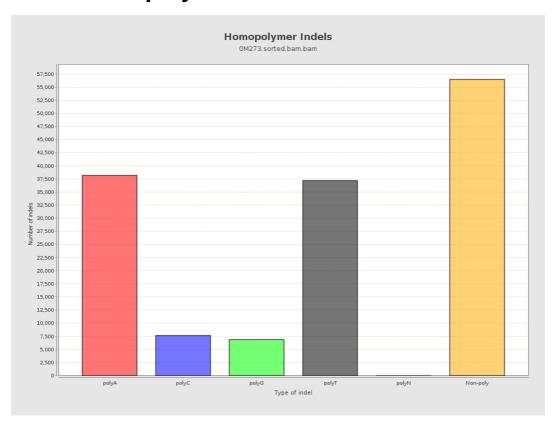


10. Results: Mapped Reads Clipping Profile



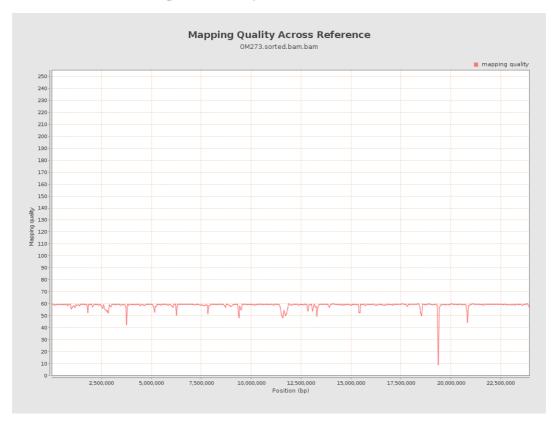


11. Results : Homopolymer Indels



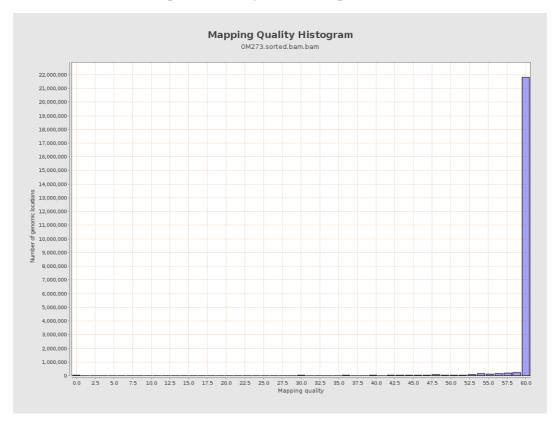


12. Results: Mapping Quality Across Reference



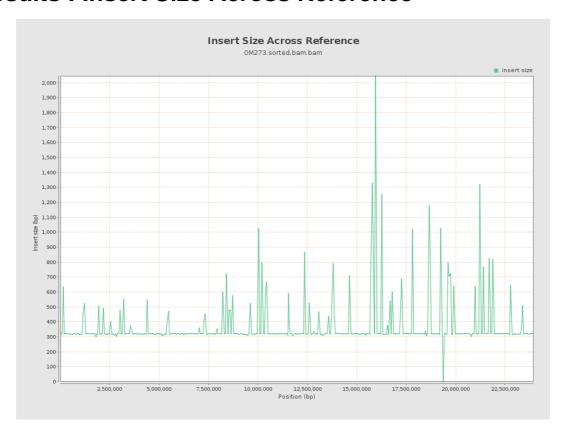


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

