Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:58:38



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM282.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/OM282-
	BiooBarcode28_CAAAAG_R2.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM282-
	BiooBarcode28_CAAAAG_R1.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:58:37 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM282.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997	
Number of reads	1,274,577	
Mapped reads	808,312 / 63.42%	
Unmapped reads	466,265 / 36.58%	
Mapped paired reads	808,312 / 63.42%	
Mapped reads, first in pair	402,742 / 31.6%	
Mapped reads, second in pair	405,570 / 31.82%	
Mapped reads, both in pair	793,316 / 62.24%	
Mapped reads, singletons	14,996 / 1.18%	
Read min/max/mean length	30 / 100 / 99.9	
Duplicated reads (estimated)	43,018 / 3.38%	
Duplication rate	4.2%	
Clipped reads	83,003 / 6.51%	

2.2. ACGT Content

Number/percentage of A's	23,285,609 / 29.72%
Number/percentage of C's	15,879,649 / 20.27%
Number/percentage of T's	23,360,044 / 29.81%
Number/percentage of G's	15,834,211 / 20.21%
Number/percentage of N's	6,487 / 0.01%
GC Percentage	40.47%



2.3. Coverage

Mean	3.274
Standard Deviation	3.2886

2.4. Mapping Quality

Maran Mananina (Ornality)	F0 00	
Mean Mapping Quality	58.68	
11 0		

2.5. Insert size

Mean	733.66	
Standard Deviation	21,300.13	
P25/Median/P75	303 / 314 / 322	

2.6. Mismatches and indels

General error rate	1.47%
Mismatches	1,092,964
Insertions	24,251
Mapped reads with at least one insertion	2.86%
Deletions	27,435
Mapped reads with at least one deletion	3.22%
Homopolymer indels	64.96%

2.7. Chromosome stats

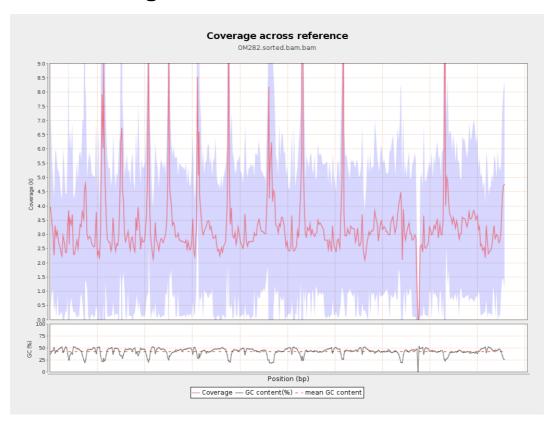
Name	Length	Mapped bases	Mean coverage	Standard deviation

		50000000000000000000000000000000000000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	2801843	2.8672	2.0923
gi 107412068 2 emb LT615 257.1	860454	2681327	3.1162	2.6738
gi 107412086 5 emb LT615 258.1	989719	3448182	3.484	4.1825
gi 107412108 6 emb LT615 259.1	935450	3187340	3.4073	4.4965
gi 107412130 1 emb LT615 260.1	1432239	4827849	3.3708	3.3856
gi 107412161 5 emb LT615 261.1	1080962	3607380	3.3372	3.2278
gi 107412187 1 emb LT615 262.1	1545099	5037787	3.2605	2.3941
gi 107412223 5 emb LT615 263.1	1585108	5179101	3.2673	2.7199
gi 107412259 0 emb LT615 264.1	2122358	6824830	3.2157	2.456
gi 107412305 0 emb LT615 265.1	1754192	6095778	3.475	3.1354
gi 107412342 1 emb LT615	2150147	7322157	3.4054	6.0989

				CENTRO DE INVESTIGACION
266.1				
gi 107412389	3031036	9757055	3.219	2.2652
8 emb LT615				
267.1				
gi 107412458	2359348	7226089	3.0627	3.2071
8 emb LT615				
268.1				
gi 107412506	3135668	10443963	3.3307	2.102
5 emb LT615				
269.1				

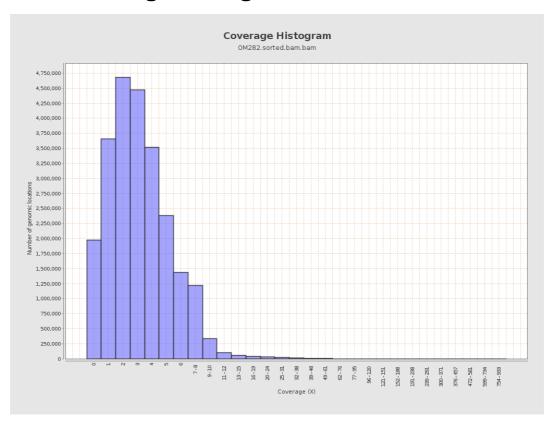


3. Results: Coverage across reference



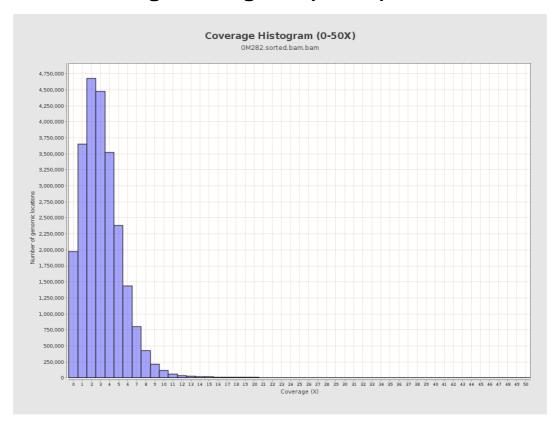


4. Results : Coverage Histogram



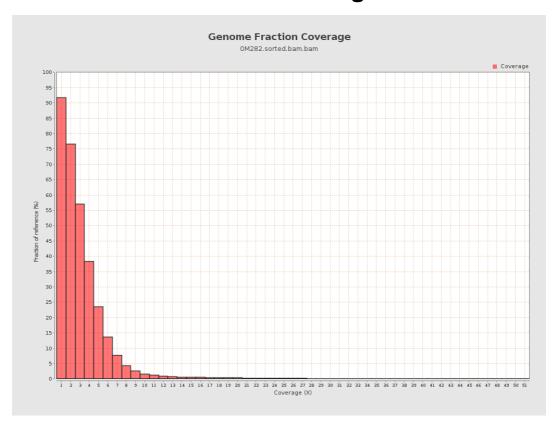


5. Results: Coverage Histogram (0-50X)



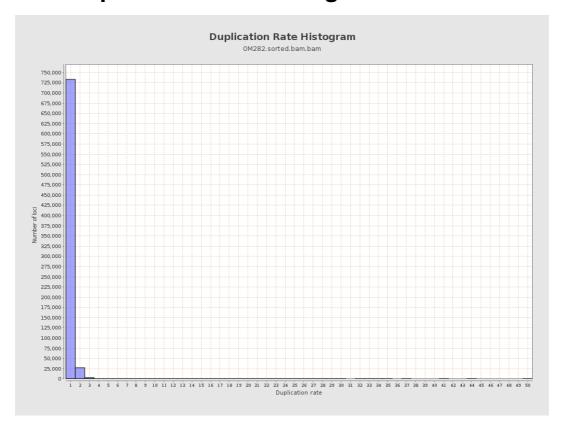


6. Results : Genome Fraction Coverage



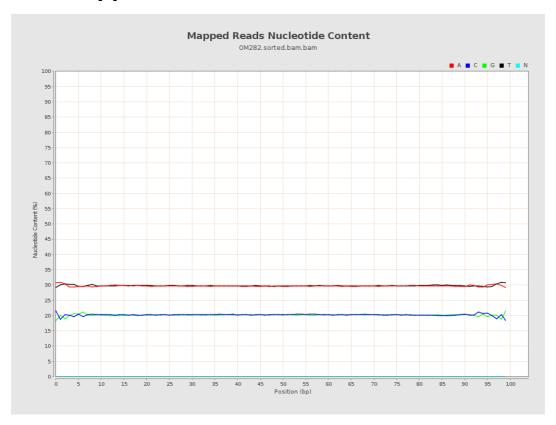


7. Results: Duplication Rate Histogram



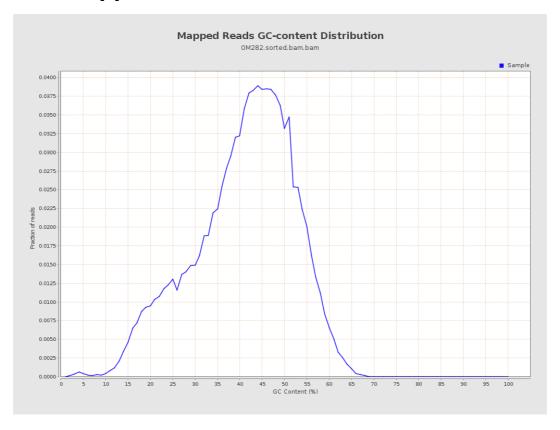


8. Results: Mapped Reads Nucleotide Content



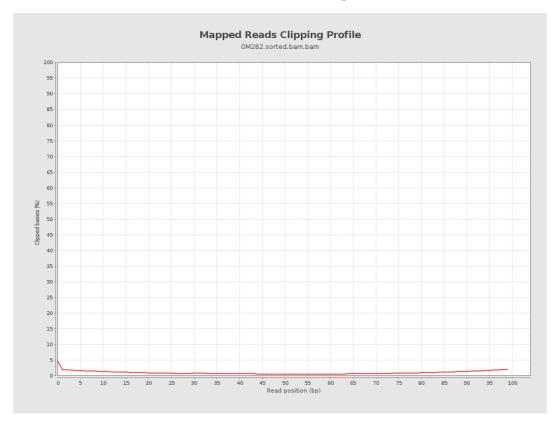


9. Results: Mapped Reads GC-content Distribution



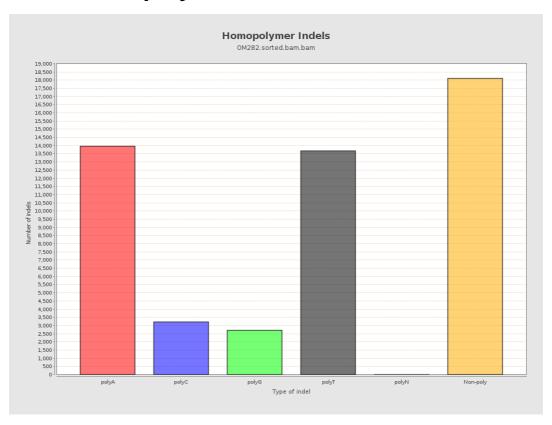


10. Results: Mapped Reads Clipping Profile



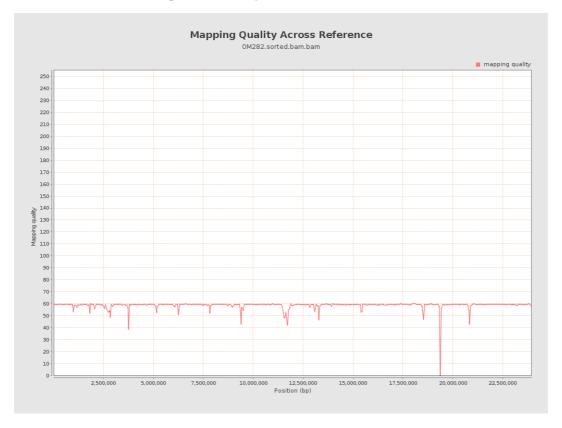


11. Results : Homopolymer Indels



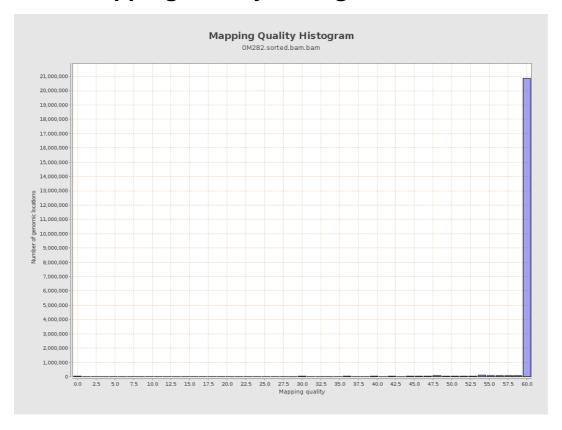


12. Results: Mapping Quality Across Reference



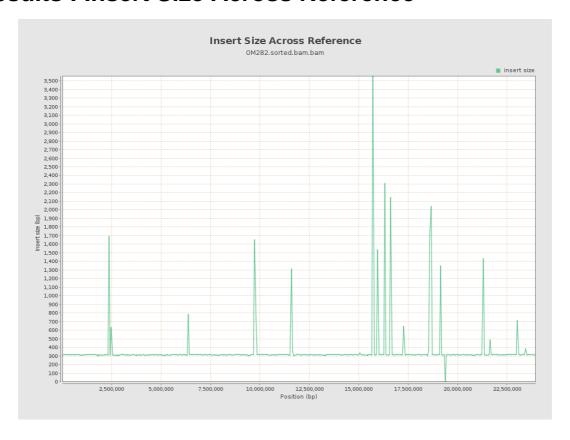


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

