Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:18:28



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM124.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/OM-
	124_CTTGTA_R2.fastq.gz
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM-
	124_CTTGTA_R1.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end	no
reads:	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:18:27 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/
	sequences_bam/OM124.sorted.bam.
	bam
	<u></u>



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	49,017,302
Mapped reads	3,124,724 / 6.37%
Unmapped reads	45,892,578 / 93.63%
Mapped paired reads	3,124,724 / 6.37%
Mapped reads, first in pair	1,563,333 / 3.19%
Mapped reads, second in pair	1,561,391 / 3.19%
Mapped reads, both in pair	2,742,771 / 5.6%
Mapped reads, singletons	381,953 / 0.78%
Read min/max/mean length	30 / 100 / 99.97
Duplicated reads (estimated)	708,330 / 1.45%
Duplication rate	11.6%
Clipped reads	655,690 / 1.34%

2.2. ACGT Content

Number/percentage of A's	82,499,340 / 29.42%
Number/percentage of C's	56,809,352 / 20.26%
Number/percentage of T's	84,267,254 / 30.05%
Number/percentage of G's	56,818,143 / 20.26%
Number/percentage of N's	8,767 / 0%
GC Percentage	40.52%



2.3. Coverage

Mean	11.7167
Standard Deviation	59.9616

2.4. Mapping Quality

Moon Monning Quality	EG 2			
Mean Mapping Quality	30.2			

2.5. Insert size

Mean	1,004.54	
Standard Deviation	31,497.75	
P25/Median/P75	224 / 236 / 256	

2.6. Mismatches and indels

General error rate	1.2%
Mismatches	3,080,118
Insertions	109,366
Mapped reads with at least one insertion	3.24%
Deletions	122,201
Mapped reads with at least one deletion	3.42%
Homopolymer indels	60.63%

2.7. Chromosome stats

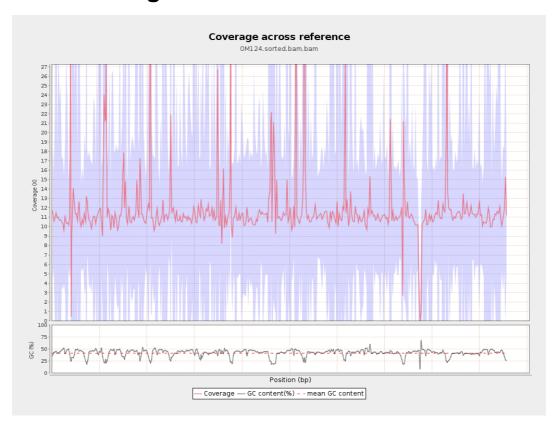
Name	Length	Mapped bases	Mean coverage	Standard deviation

		000000000000000000000000000000000000000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	10864952	11.1183	14.44
gi 107412068 2 emb LT615 257.1	860454	9263600	10.7659	24.4172
gi 107412086 5 emb LT615 258.1	989719	12312662	12.4406	28.2718
gi 107412108 6 emb LT615 259.1	935450	11215579	11.9895	17.2465
gi 107412130 1 emb LT615 260.1	1432239	18657784	13.027	33.9667
gi 107412161 5 emb LT615 261.1	1080962	12523695	11.5857	23.2297
gi 107412187 1 emb LT615 262.1	1545099	17185303	11.1225	14.6871
gi 107412223 5 emb LT615 263.1	1585108	19273847	12.1593	85.2632
gi 107412259 0 emb LT615 264.1	2122358	23721833	11.1771	10.8501
gi 107412305 0 emb LT615 265.1	1754192	23008679	13.1164	183.3061
gi 107412342 1 emb LT615	2150147	25732074	11.9676	23.2232

				CENTRO DE INVESTIGACION
266.1				
gi 107412389	3031036	34785571	11.4765	53.3698
8 emb LT615				
267.1				
gi 107412458	2359348	26487641	11.2267	16.555
8 emb LT615				
268.1				
gi 107412506	3135668	35687667	11.3812	14.0723
5 emb LT615				
269.1				

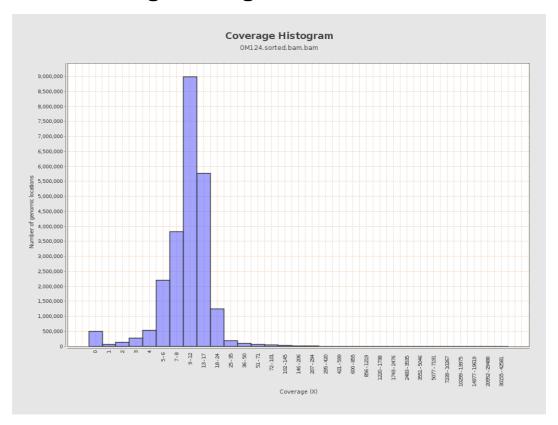


3. Results: Coverage across reference



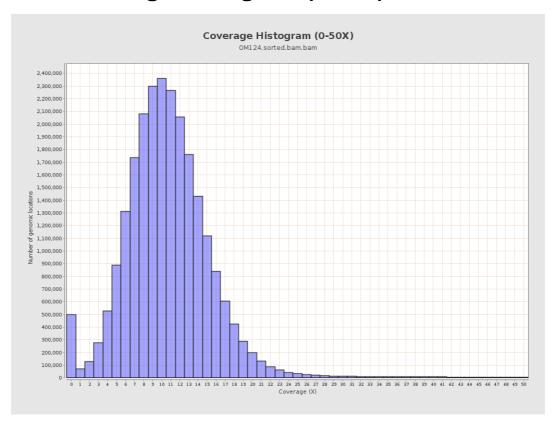


4. Results : Coverage Histogram



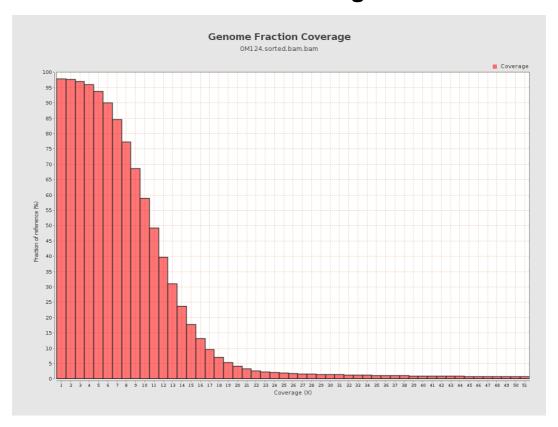


5. Results: Coverage Histogram (0-50X)



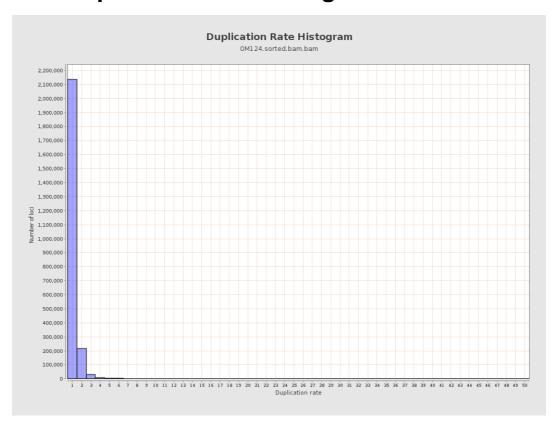


6. Results : Genome Fraction Coverage



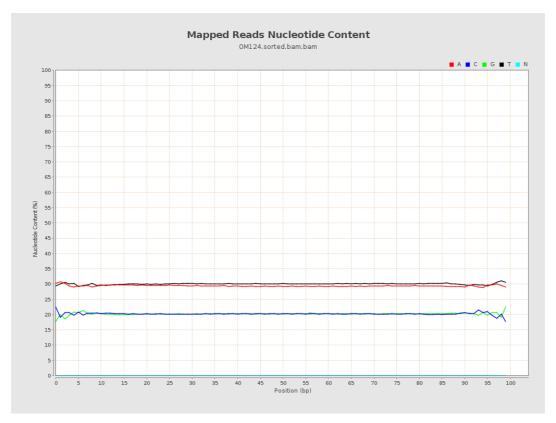


7. Results : Duplication Rate Histogram



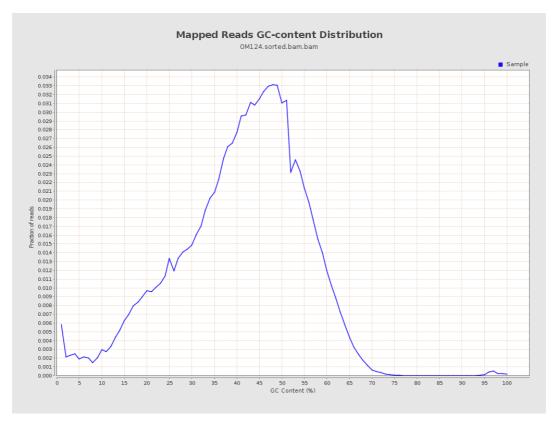


8. Results: Mapped Reads Nucleotide Content



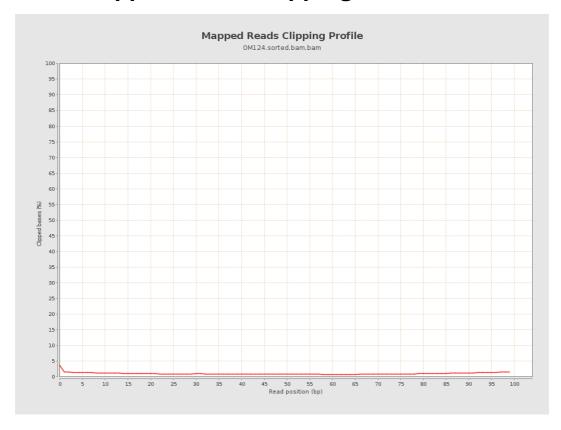


9. Results: Mapped Reads GC-content Distribution



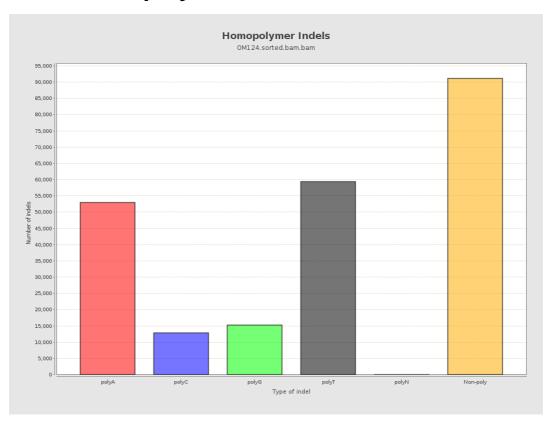


10. Results: Mapped Reads Clipping Profile



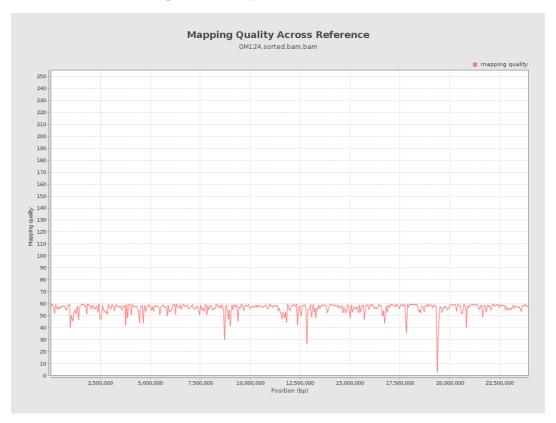


11. Results : Homopolymer Indels



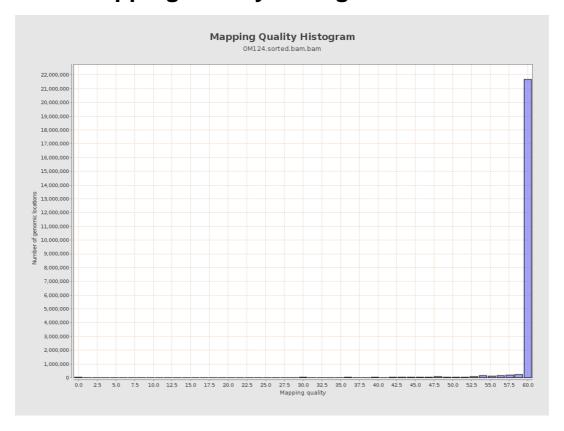


12. Results: Mapping Quality Across Reference



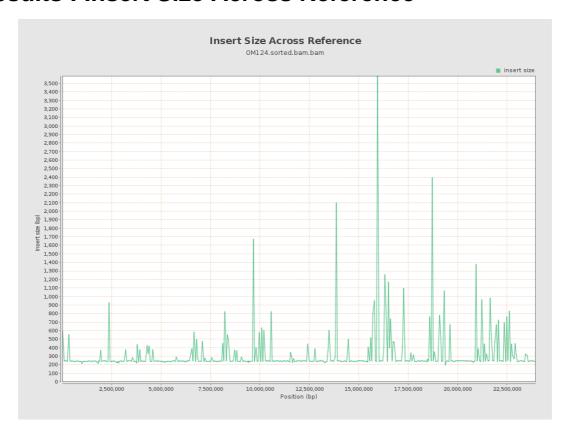


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

