Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 11:56:28



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM012.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/OM012- BiooBarcode1_CGATGT_R1.fastq.gz /home/vdp5/data/cambodia_samples/ sequences_gz/OM012- BiooBarcode1_CGATGT_R2.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 11:56:28 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM012.sorted.bam. bam



2. Summary

2.1. Globals

Reference size	23,958,997	
Number of reads	3,908,464	
Mapped reads	887,242 / 22.7%	
Unmapped reads	3,021,222 / 77.3%	
Mapped paired reads	887,242 / 22.7%	
Mapped reads, first in pair	445,045 / 11.39%	
Mapped reads, second in pair	442,197 / 11.31%	
Mapped reads, both in pair	852,331 / 21.81%	
Mapped reads, singletons	34,911 / 0.89%	
Read min/max/mean length	30 / 100 / 99.96	
Duplicated reads (estimated)	71,546 / 1.83%	
Duplication rate	5.67%	
Clipped reads	114,763 / 2.94%	

2.2. ACGT Content

Number/percentage of A's	25,422,112 / 30.05%	
Number/percentage of C's	16,840,918 / 19.9%	
Number/percentage of T's	25,562,037 / 30.21%	
Number/percentage of G's	16,781,417 / 19.83%	
Number/percentage of N's	7,137 / 0.01%	
GC Percentage	39.74%	



2.3. Coverage

Mean	3.5352
Standard Deviation	4.7246

2.4. Mapping Quality

Moon Monning Quality	58 14
Mean Mapping Quality	36.14

2.5. Insert size

Mean	858.2	
Standard Deviation	27,229.01	
P25/Median/P75	286 / 297 / 308	

2.6. Mismatches and indels

General error rate	1.52%	
Mismatches	1,215,316	
Insertions	28,974	
Mapped reads with at least one insertion	3.09%	
Deletions	33,037	
Mapped reads with at least one deletion	3.48%	
Homopolymer indels	63.1%	

2.7. Chromosome stats

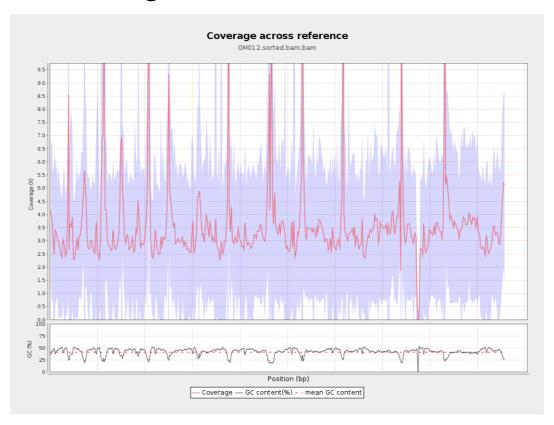
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	3069919	3.1415	2.5278
gi 107412068 2 emb LT615 257.1	860454	2921790	3.3956	3.3363
gi 107412086 5 emb LT615 258.1	989719	3532099	3.5688	4.3192
gi 107412108 6 emb LT615 259.1	935450	3595075	3.8432	5.6513
gi 107412130 1 emb LT615 260.1	1432239	5243600	3.6611	4.2548
gi 107412161 5 emb LT615 261.1	1080962	3954566	3.6584	4.0761
gi 107412187 1 emb LT615 262.1	1545099	5063255	3.277	2.3406
gi 107412223 5 emb LT615 263.1	1585108	5566126	3.5115	5.8989
gi 107412259 0 emb LT615 264.1	2122358	7067088	3.3298	2.4336
gi 107412305 0 emb LT615 265.1	1754192	6776749	3.8632	9.4144
gi 107412342 1 emb LT615	2150147	7842896	3.6476	6.6679

266.1				
gi 107412389 8 emb LT615 267.1	3031036	10509842	3.4674	3.6278
gi 107412458 8 emb LT615 268.1	2359348	8381414	3.5524	4.1673
gi 107412506 5 emb LT615 269.1	3135668	11174580	3.5637	2.3896

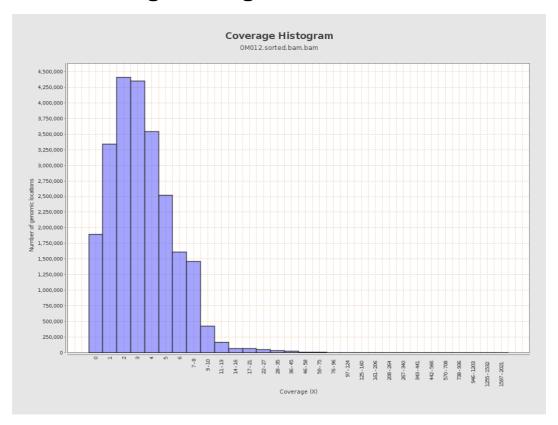


3. Results : Coverage across reference



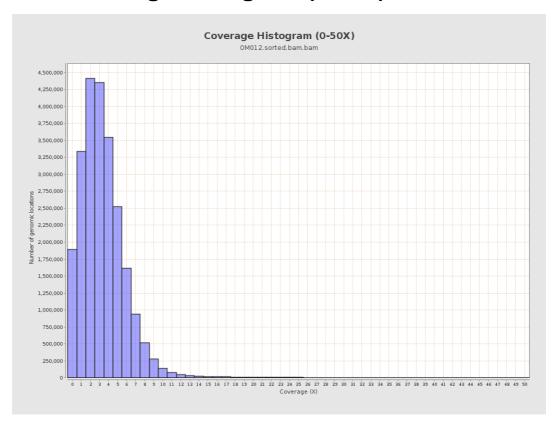


4. Results : Coverage Histogram



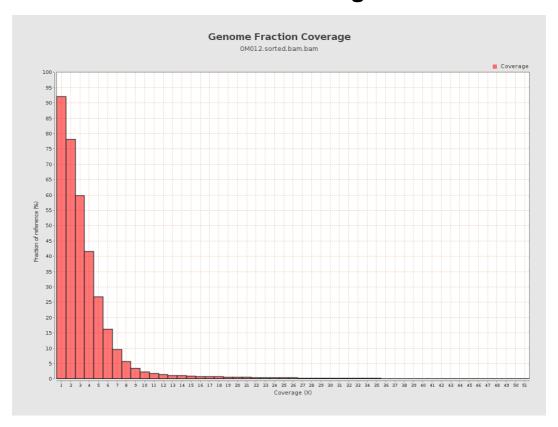


5. Results: Coverage Histogram (0-50X)



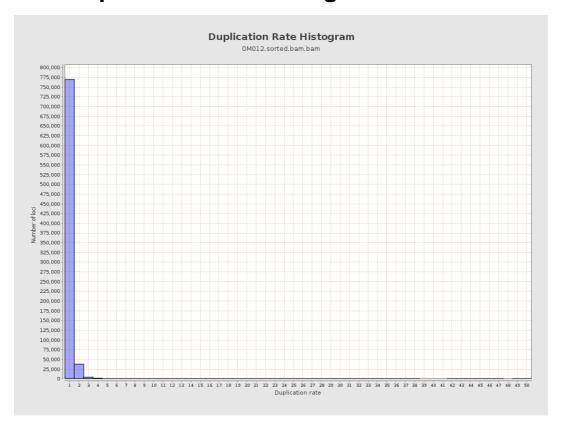


6. Results : Genome Fraction Coverage



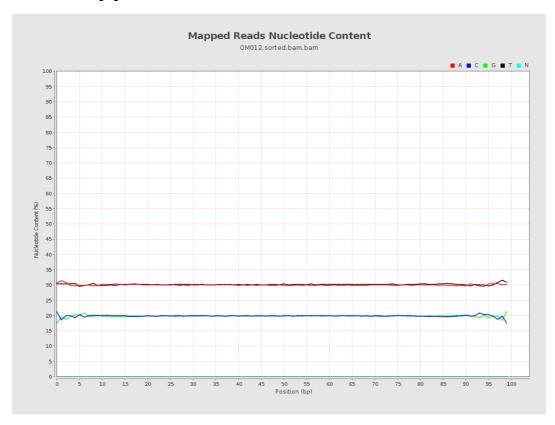


7. Results: Duplication Rate Histogram



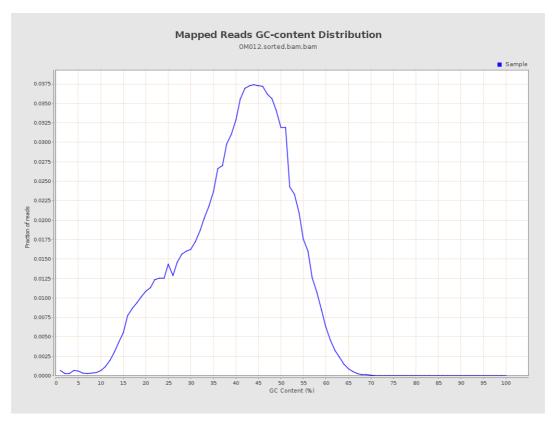


8. Results: Mapped Reads Nucleotide Content



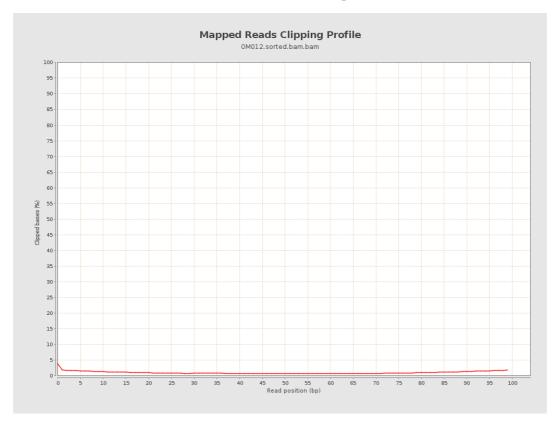


9. Results: Mapped Reads GC-content Distribution



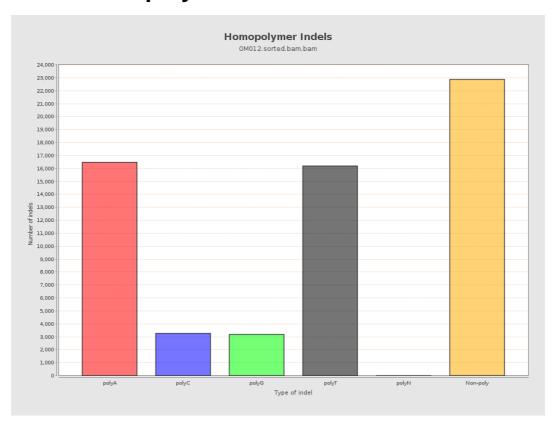


10. Results: Mapped Reads Clipping Profile



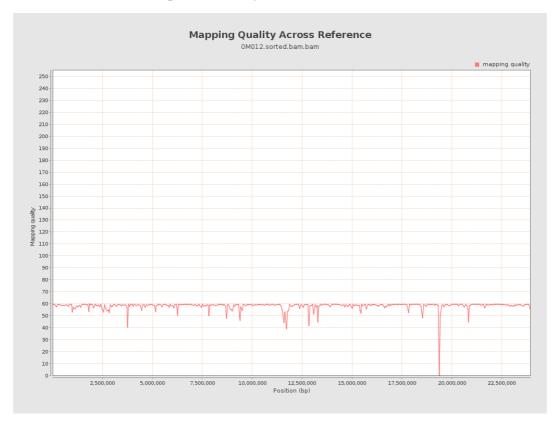


11. Results : Homopolymer Indels



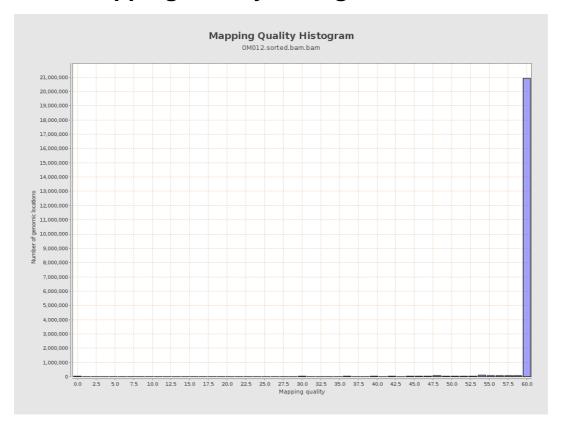


12. Results: Mapping Quality Across Reference



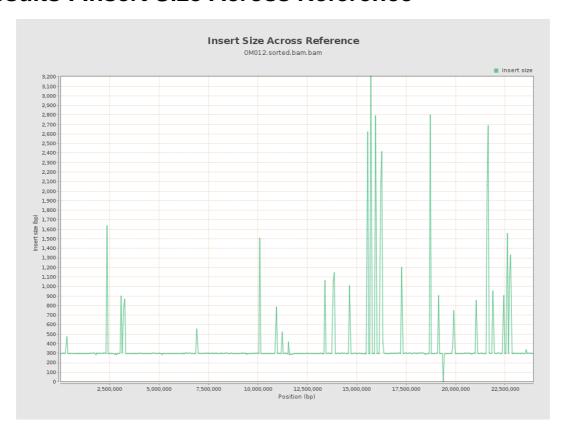


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

