Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:07:10



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM114.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-
	114_CAGATC_R2.fastq.gz /home/vdp5/data/cambodia_samples/ sequences_gz/OM- 114_CAGATC_R1.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:07:10 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM114.sorted.bam. bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	60,685,392
Mapped reads	3,348,435 / 5.52%
Unmapped reads	57,336,957 / 94.48%
Mapped paired reads	3,348,435 / 5.52%
Mapped reads, first in pair	1,676,112 / 2.76%
Mapped reads, second in pair	1,672,323 / 2.76%
Mapped reads, both in pair	2,883,128 / 4.75%
Mapped reads, singletons	465,307 / 0.77%
Read min/max/mean length	30 / 100 / 99.97
Duplicated reads (estimated)	896,049 / 1.48%
Duplication rate	14.43%
Clipped reads	766,953 / 1.26%

2.2. ACGT Content

Number/percentage of A's	88,192,218 / 29.73%	
Number/percentage of C's	59,098,566 / 19.92%	
Number/percentage of T's	90,306,902 / 30.45%	
Number/percentage of G's	59,025,140 / 19.9%	
Number/percentage of N's	10,006 / 0%	
GC Percentage	39.82%	



2.3. Coverage

Mean	12.3956
Standard Deviation	74.0861

2.4. Mapping Quality

Mean Mapping Quality	55.78	
mean mapping adains		

2.5. Insert size

Mean 1,121.6		
Standard Deviation	33,655.11	
P25/Median/P75	217 / 228 / 251	

2.6. Mismatches and indels

General error rate	1.25%
Mismatches	3,404,299
Insertions	122,207
Mapped reads with at least one insertion	3.36%
Deletions	140,024
Mapped reads with at least one deletion	3.56%
Homopolymer indels	60.67%

2.7. Chromosome stats

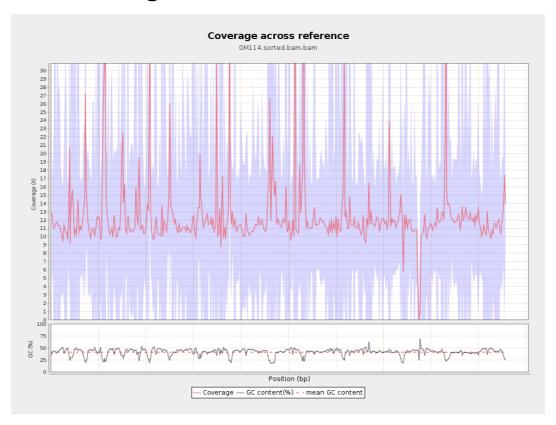
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	11008826	11.2655	17.124
gi 107412068 2 emb LT615 257.1	860454	11051492	12.8438	31.4841
gi 107412086 5 emb LT615 258.1	989719	13293015	13.4311	34.866
gi 107412108 6 emb LT615 259.1	935450	12579601	13.4476	20.9075
gi 107412130 1 emb LT615 260.1	1432239	18313072	12.7863	41.7723
gi 107412161 5 emb LT615 261.1	1080962	13302922	12.3066	28.3246
gi 107412187 1 emb LT615 262.1	1545099	17880197	11.5722	17.6265
gi 107412223 5 emb LT615 263.1	1585108	20771746	13.1043	107.1027
gi 107412259 0 emb LT615 264.1	2122358	24848803	11.7081	12.7826
gi 107412305 0 emb LT615 265.1	1754192	24846275	14.1639	226.9033
gi 107412342 1 emb LT615	2150147	27448219	12.7657	30.2421

266.1				
gi 107412389 8 emb LT615 267.1	3031036	36900149	12.1741	63.6024
gi 107412458 8 emb LT615 268.1	2359348	27090060	11.482	19.6799
gi 107412506 5 emb LT615 269.1	3135668	37652413	12.0078	16.9992

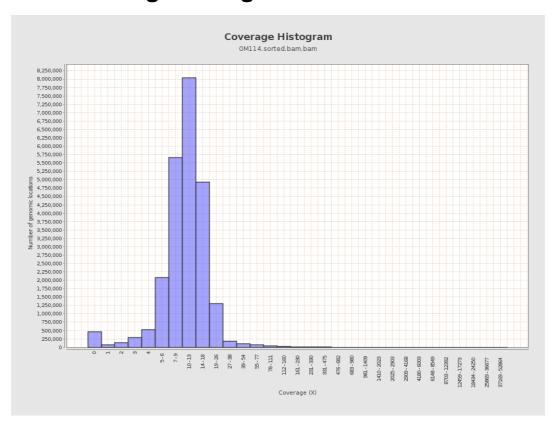


3. Results: Coverage across reference



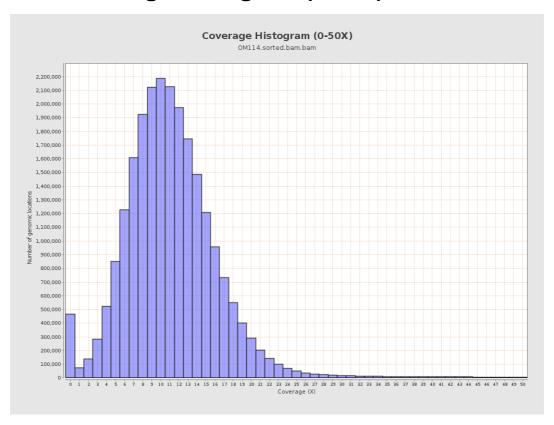


4. Results: Coverage Histogram



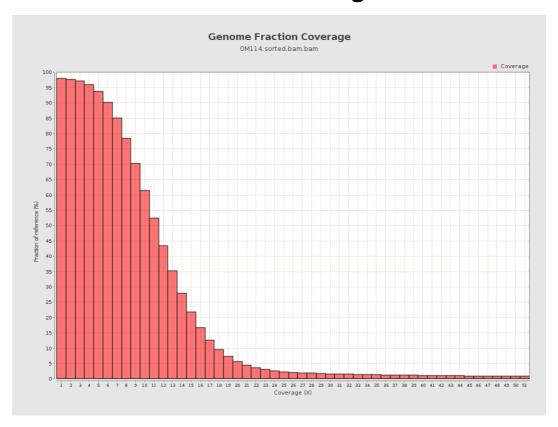


5. Results: Coverage Histogram (0-50X)



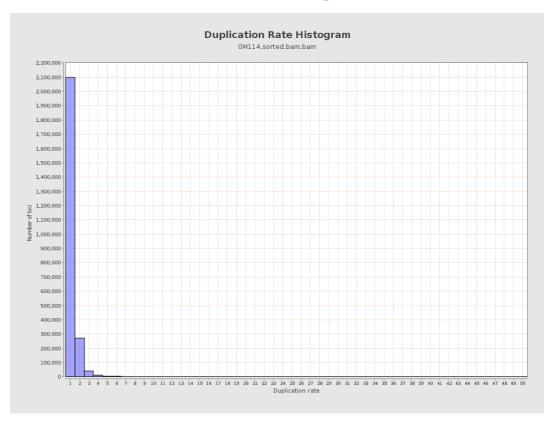


6. Results : Genome Fraction Coverage



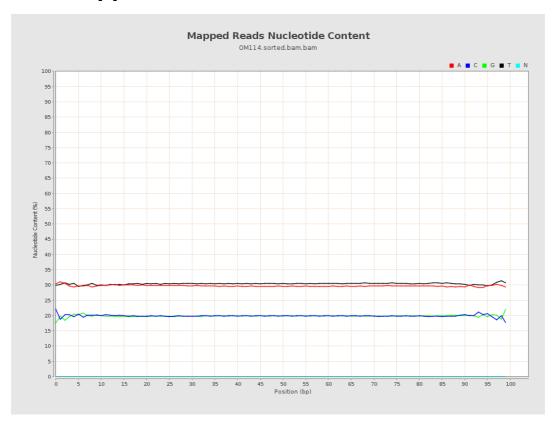


7. Results : Duplication Rate Histogram



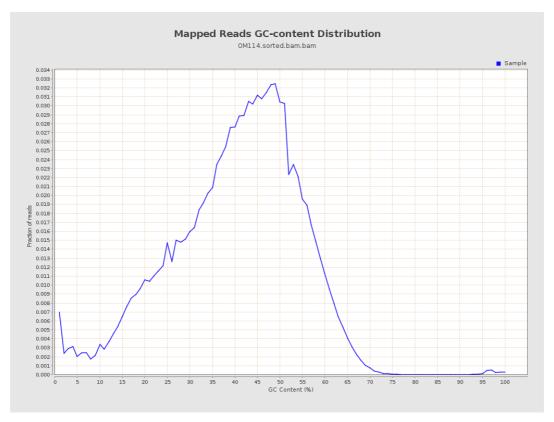


8. Results: Mapped Reads Nucleotide Content



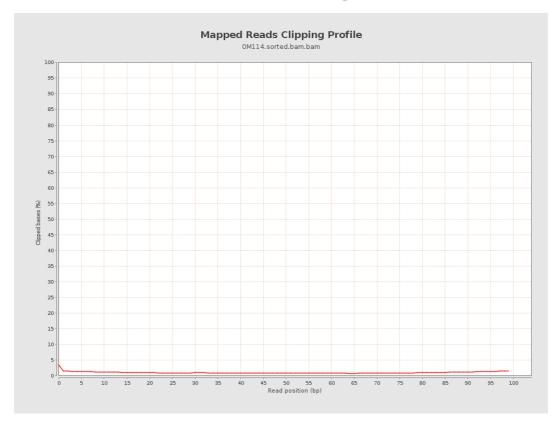


9. Results: Mapped Reads GC-content Distribution



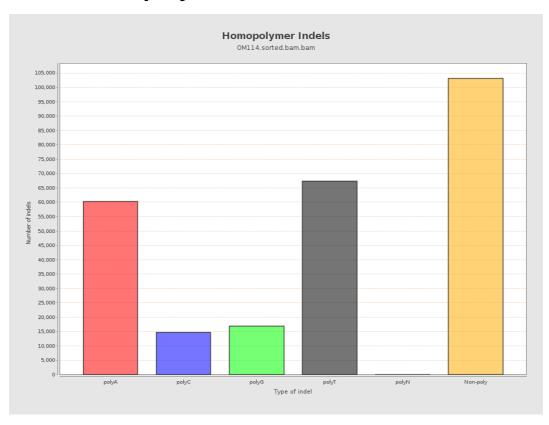


10. Results: Mapped Reads Clipping Profile



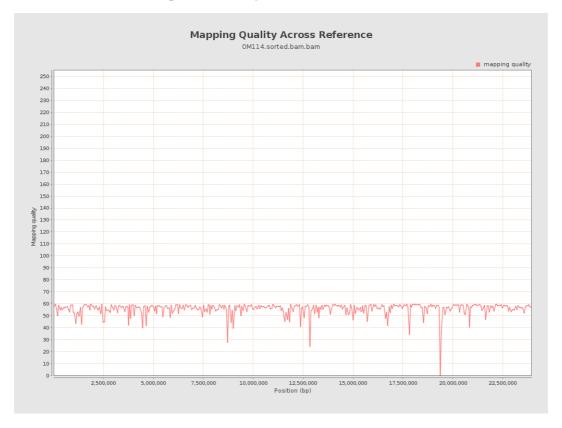


11. Results : Homopolymer Indels



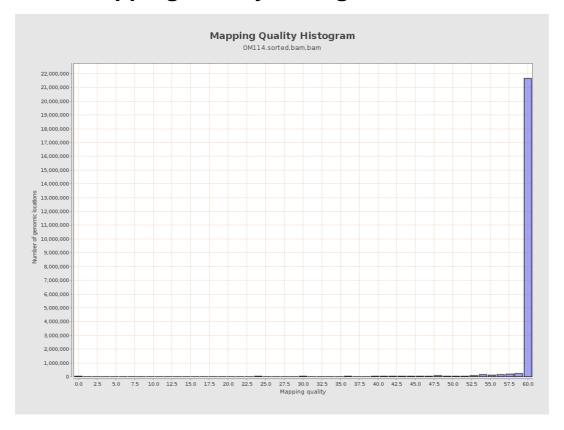


12. Results: Mapping Quality Across Reference



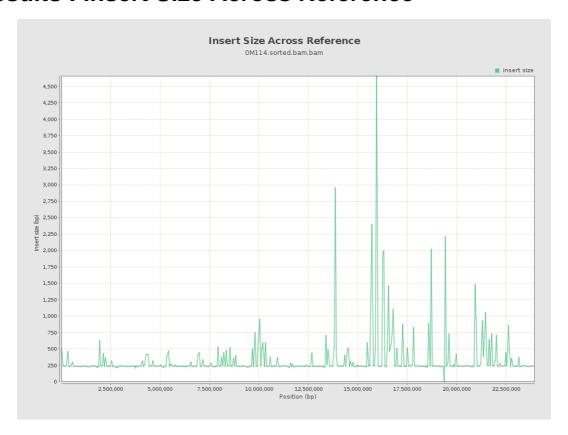


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

