Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 12:13:15



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM046.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/OM046- BiooBarcode9_ACTTGA_R2.fastq.gz /home/vdp5/data/cambodia_samples/ sequences_gz/OM046- BiooBarcode9_ACTTGA_R1.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 12:13:15 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM046.sorted.bam. bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	17,783,164
Mapped reads	6,401,395 / 36%
Unmapped reads	11,381,769 / 64%
Mapped paired reads	6,401,395 / 36%
Mapped reads, first in pair	3,191,991 / 17.95%
Mapped reads, second in pair	3,209,404 / 18.05%
Mapped reads, both in pair	6,238,951 / 35.08%
Mapped reads, singletons	162,444 / 0.91%
Read min/max/mean length	30 / 100 / 99.94
Duplicated reads (estimated)	1,369,729 / 7.7%
Duplication rate	17.4%
Clipped reads	722,196 / 4.06%

2.2. ACGT Content

Number/percentage of A's	183,380,971 / 29.74%
Number/percentage of C's	124,732,738 / 20.23%
Number/percentage of T's	184,044,718 / 29.85%
Number/percentage of G's	124,409,162 / 20.18%
Number/percentage of N's	54,328 / 0.01%
GC Percentage	40.41%



2.3. Coverage

Mean	25.7619
Standard Deviation	25.9907

2.4. Mapping Quality

Maria Manada a Oscalita	F0 F0	
Mean Mapping Quality	58.53	
11 0		

2.5. Insert size

Mean	739.73	
Standard Deviation	25,336.25	
P25/Median/P75	267 / 280 / 290	

2.6. Mismatches and indels

General error rate	1.46%
Mismatches	8,539,625
Insertions	196,817
Mapped reads with at least one insertion	2.9%
Deletions	226,556
Mapped reads with at least one deletion	3.33%
Homopolymer indels	63.26%

2.7. Chromosome stats

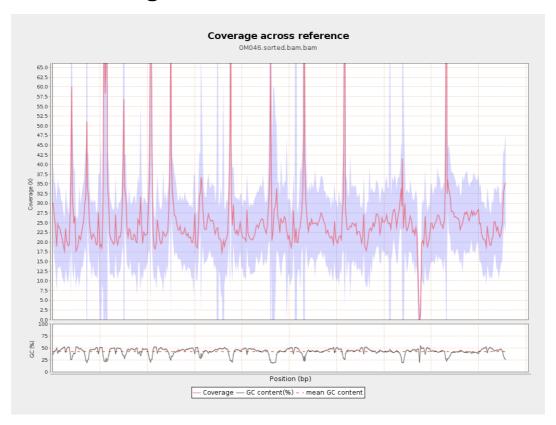
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	22206601	22.7243	9.8954
gi 107412068 2 emb LT615 257.1	860454	23426464	27.2257	21.3185
gi 107412086 5 emb LT615 258.1	989719	29587507	29.8949	38.3116
gi 107412108 6 emb LT615 259.1	935450	26506244	28.3353	42.2833
gi 107412130 1 emb LT615 260.1	1432239	37834811	26.4165	25.5039
gi 107412161 5 emb LT615 261.1	1080962	29581898	27.3663	24.786
gi 107412187 1 emb LT615 262.1	1545099	37208246	24.0815	9.2266
gi 107412223 5 emb LT615 263.1	1585108	39855957	25.144	20.9451
gi 107412259 0 emb LT615 264.1	2122358	52396318	24.6878	14.4104
gi 107412305 0 emb LT615 265.1	1754192	44616979	25.4345	34.411
gi 107412342 1 emb LT615	2150147	58486242	27.201	46.5074

				CENTRÓ DE INVESTIGACION
266.1				
gi 107412389	3031036	75835526	25.0197	14.2267
8 emb LT615				
267.1				
gi 107412458	2359348	58777546	24.9126	29.5148
8 emb LT615				
268.1				
gi 107412506	3135668	80909294	25.8029	9.1159
5 emb LT615				
269.1				

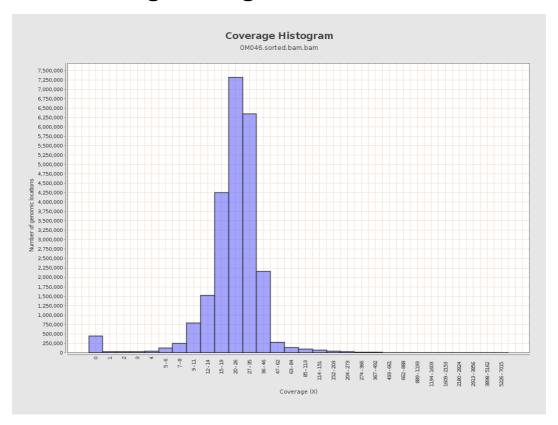


3. Results: Coverage across reference



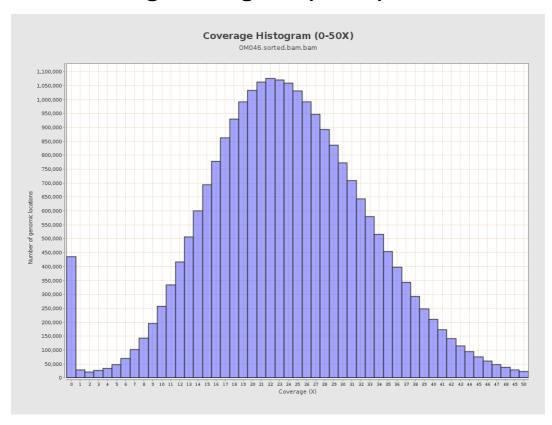


4. Results: Coverage Histogram



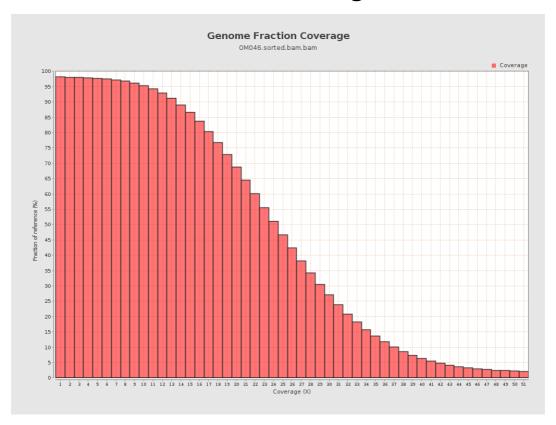


5. Results: Coverage Histogram (0-50X)



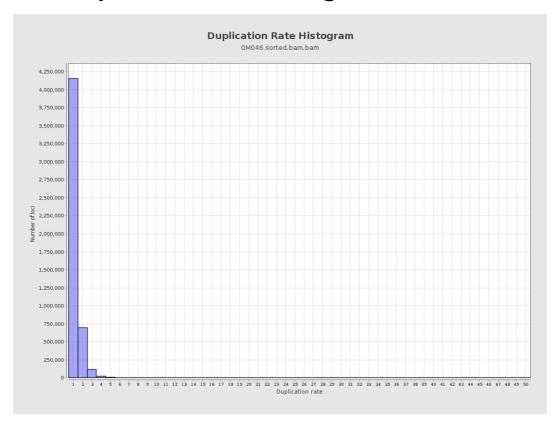


6. Results : Genome Fraction Coverage



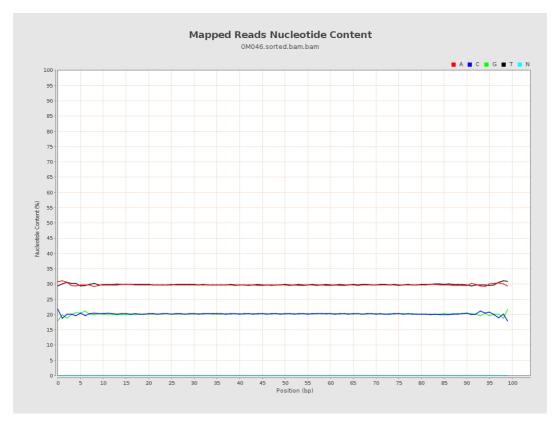


7. Results: Duplication Rate Histogram



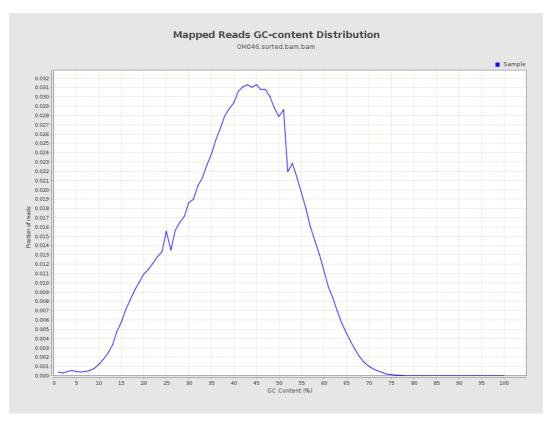


8. Results: Mapped Reads Nucleotide Content



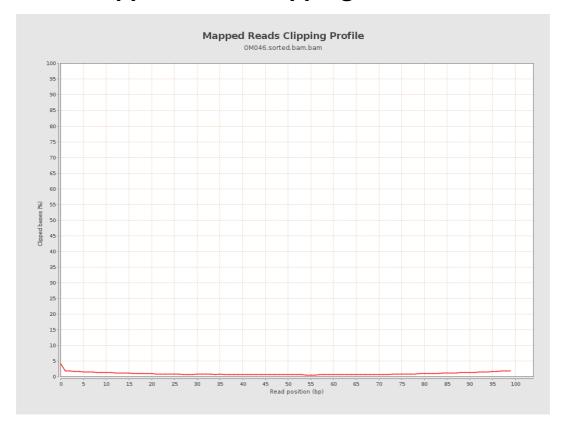


9. Results: Mapped Reads GC-content Distribution



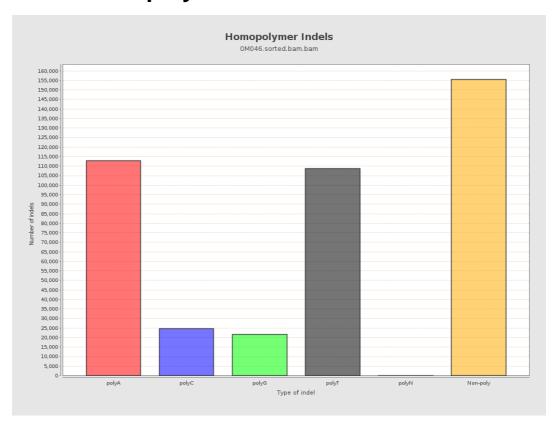


10. Results: Mapped Reads Clipping Profile



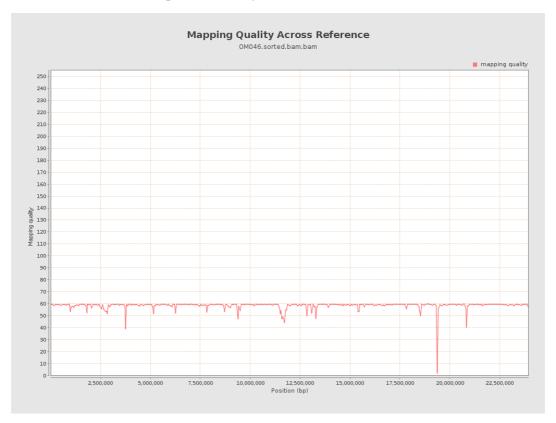


11. Results : Homopolymer Indels



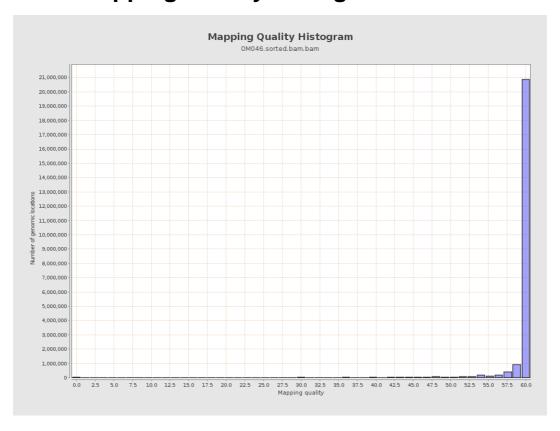


12. Results: Mapping Quality Across Reference



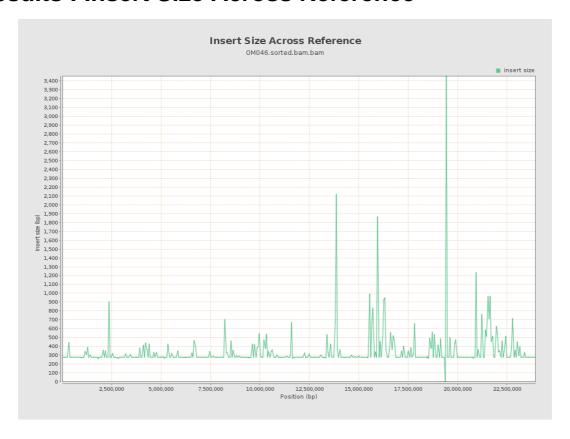


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

