Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:25:01



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM125.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- 125_ATCACG_R2.fastq.gz /home/vdp5/data/cambodia_samples/ sequences_gz/OM- 125_ATCACG_R1.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:25:00 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM125.sorted.bam. bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	60,519,116
Mapped reads	1,610,475 / 2.66%
Unmapped reads	58,908,641 / 97.34%
Mapped paired reads	1,610,475 / 2.66%
Mapped reads, first in pair	807,308 / 1.33%
Mapped reads, second in pair	803,167 / 1.33%
Mapped reads, both in pair	1,145,638 / 1.89%
Mapped reads, singletons	464,837 / 0.77%
Read min/max/mean length	30 / 100 / 99.98
Duplicated reads (estimated)	564,093 / 0.93%
Duplication rate	11.71%
Clipped reads	608,211 / 1%

2.2. ACGT Content

Number/percentage of A's	38,372,251 / 30.1%
Number/percentage of C's	24,382,623 / 19.13%
Number/percentage of T's	40,279,472 / 31.6%
Number/percentage of G's	24,432,138 / 19.17%
Number/percentage of N's	3,689 / 0%
GC Percentage	38.3%



2.3. Coverage

Mean	5.3277
Standard Deviation	75.776

2.4. Mapping Quality

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Mean Mapping Quality	52.32	

2.5. Insert size

Mean	1,637.38	
Standard Deviation	41,051.53	
P25/Median/P75	214 / 225 / 240	

2.6. Mismatches and indels

General error rate	1.32%
Mismatches	1,499,957
Insertions	68,639
Mapped reads with at least one insertion	3.83%
Deletions	73,672
Mapped reads with at least one deletion	3.71%
Homopolymer indels	55.7%

2.7. Chromosome stats

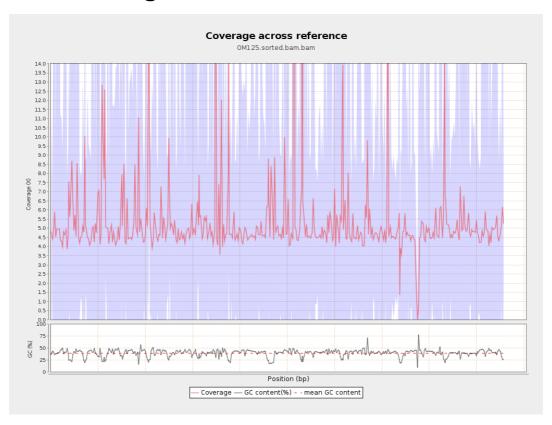
Name	Length	Mapped bases	Mean coverage	Standard deviation

		300000000000000000000000000000000000000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	4629206	4.7371	17.4054
gi 107412068 2 emb LT615 257.1	860454	4988376	5.7974	31.1445
gi 107412086 5 emb LT615 258.1	989719	5704827	5.7641	33.3265
gi 107412108 6 emb LT615 259.1	935450	4895140	5.2329	12.7346
gi 107412130 1 emb LT615 260.1	1432239	8296857	5.7929	38.3672
gi 107412161 5 emb LT615 261.1	1080962	5772721	5.3404	27.9195
gi 107412187 1 emb LT615 262.1	1545099	7602989	4.9207	18.0787
gi 107412223 5 emb LT615 263.1	1585108	9670856	6.1011	110.4619
gi 107412259 0 emb LT615 264.1	2122358	10232948	4.8215	12.6272
gi 107412305 0 emb LT615 265.1	1754192	11714995	6.6783	233.6772
gi 107412342 1 emb LT615	2150147	11483806	5.3409	23.3645

266.1				
gi 107412389 8 emb LT615 267.1	3031036	15975806	5.2707	66.7406
gi 107412458 8 emb LT615 268.1	2359348	10964544	4.6473	17.0336
gi 107412506 5 emb LT615 269.1	3135668	15712908	5.011	16.9496

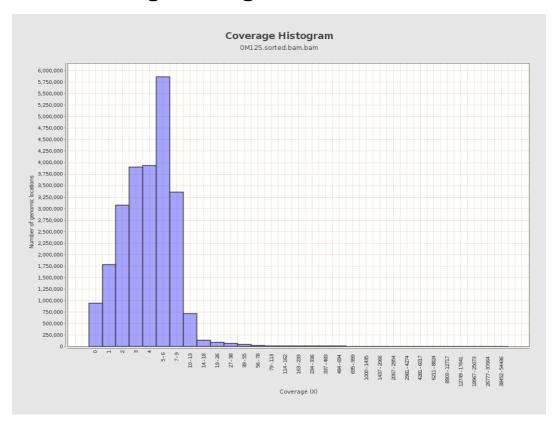


3. Results: Coverage across reference



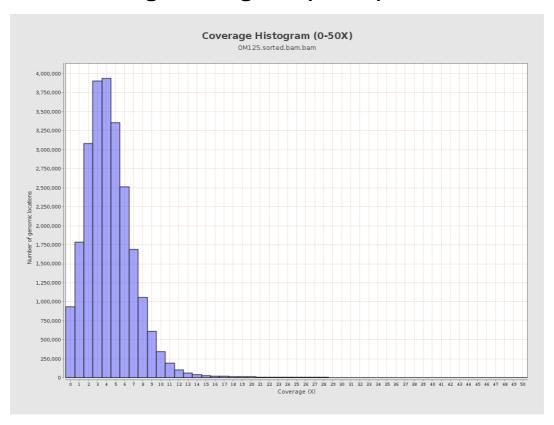


4. Results: Coverage Histogram



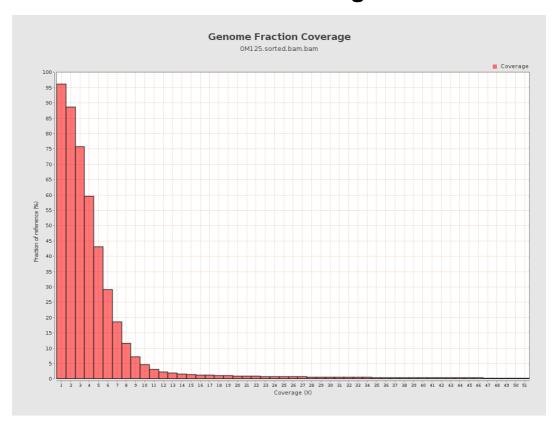


5. Results: Coverage Histogram (0-50X)



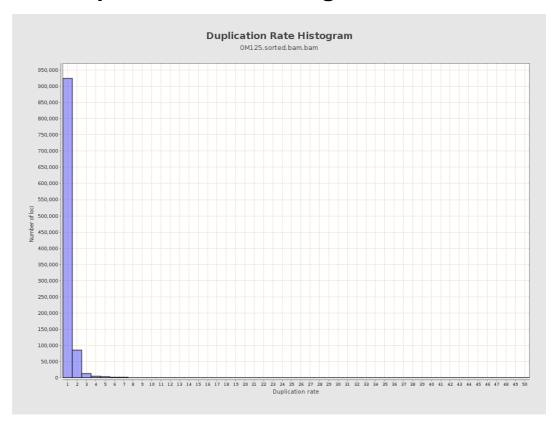


6. Results : Genome Fraction Coverage



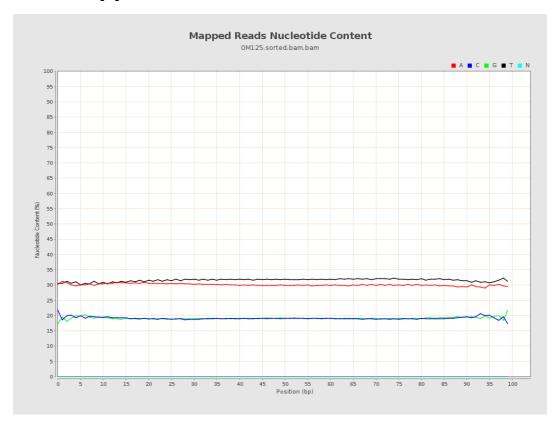


7. Results : Duplication Rate Histogram



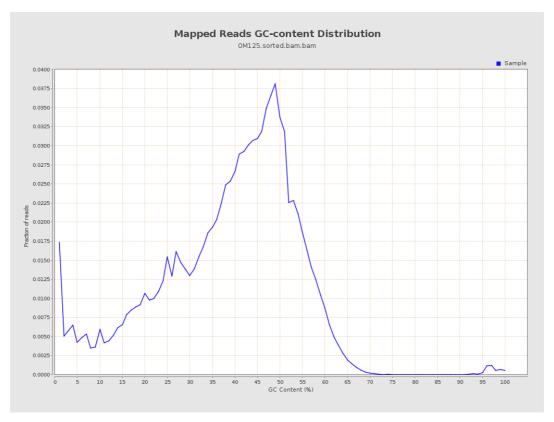


8. Results: Mapped Reads Nucleotide Content



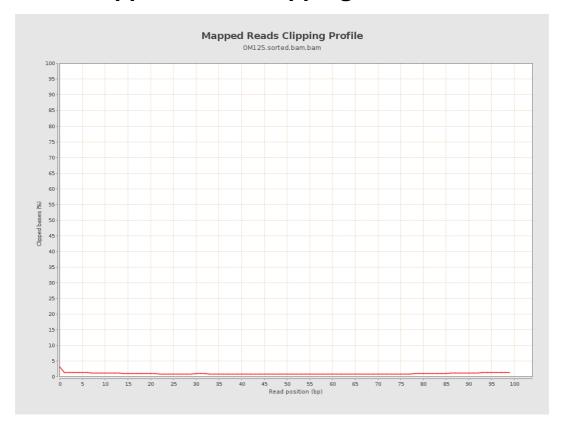


9. Results: Mapped Reads GC-content Distribution



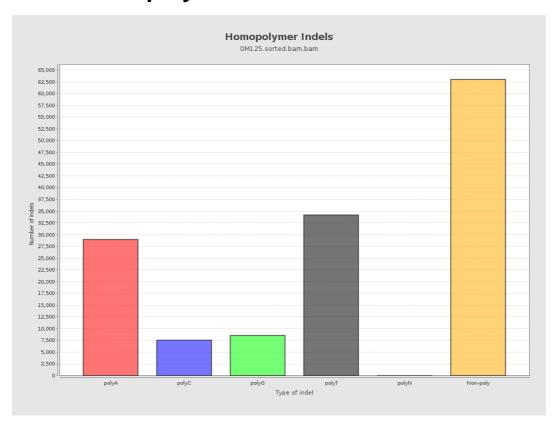


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



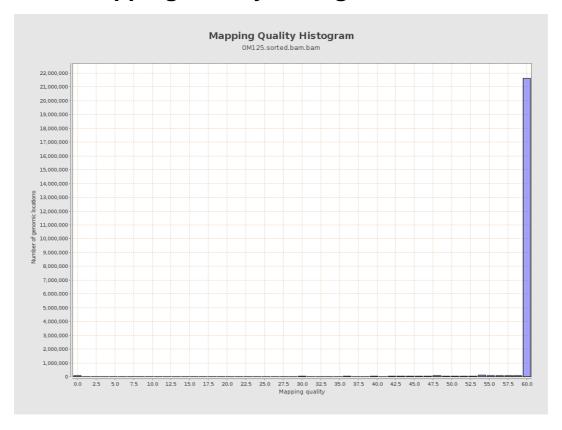


12. Results: Mapping Quality Across Reference



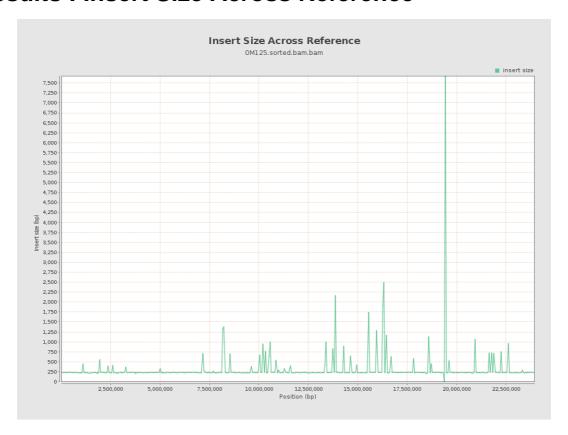


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

