Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:10:22



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM310.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/OM310-
	BiooBarcode38_CTAGCT_R2.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM310-
	BiooBarcode38_CTAGCT_R1.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end	no
reads:	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:10:22 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/ sequences_bam/OM310.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	1,863,529
Mapped reads	1,198,678 / 64.32%
Unmapped reads	664,851 / 35.68%
Mapped paired reads	1,198,678 / 64.32%
Mapped reads, first in pair	597,081 / 32.04%
Mapped reads, second in pair	601,597 / 32.28%
Mapped reads, both in pair	1,171,986 / 62.89%
Mapped reads, singletons	26,692 / 1.43%
Read min/max/mean length	30 / 100 / 99.9
Duplicated reads (estimated)	91,250 / 4.9%
Duplication rate	5.67%
Clipped reads	138,995 / 7.46%

2.2. ACGT Content

Number/percentage of A's	34,790,597 / 30.06%
Number/percentage of C's	23,080,624 / 19.94%
Number/percentage of T's	34,888,402 / 30.14%
Number/percentage of G's	22,983,818 / 19.86%
Number/percentage of N's	9,129 / 0.01%
GC Percentage	39.8%



2.3. Coverage

Mean	4.8363
Standard Deviation	5.6216

2.4. Mapping Quality

58 67
38.07

2.5. Insert size

Mean	885.46	
Standard Deviation	27,665.34	
P25/Median/P75	340 / 351 / 360	

2.6. Mismatches and indels

General error rate	1.66%
Mismatches	1,828,378
Insertions	40,114
Mapped reads with at least one insertion	3.17%
Deletions	44,651
Mapped reads with at least one deletion	3.52%
Homopolymer indels	62.6%

2.7. Chromosome stats

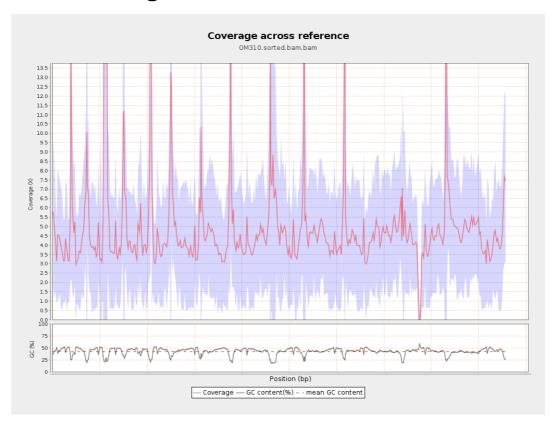
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	4176813	4.2742	3.4236
gi 107412068 2 emb LT615 257.1	860454	4312908	5.0124	4.4073
gi 107412086 5 emb LT615 258.1	989719	5712343	5.7717	9.1599
gi 107412108 6 emb LT615 259.1	935450	5112572	5.4654	8.3411
gi 107412130 1 emb LT615 260.1	1432239	7302274	5.0985	5.9123
gi 107412161 5 emb LT615 261.1	1080962	5338462	4.9386	5.1575
gi 107412187 1 emb LT615 262.1	1545099	6833877	4.4229	2.7486
gi 107412223 5 emb LT615 263.1	1585108	7448520	4.6991	3.9126
gi 107412259 0 emb LT615 264.1	2122358	9796658	4.6159	3.61
gi 107412305 0 emb LT615 265.1	1754192	8879996	5.0622	4.9347
gi 107412342 1 emb LT615	2150147	10951084	5.0932	10.9645

266.1				
gi 107412389 8 emb LT615 267.1	3031036	13953723	4.6036	3.0993
gi 107412458 8 emb LT615 268.1	2359348	10849974	4.5987	5.8886
gi 107412506 5 emb LT615 269.1	3135668	15202532	4.8483	2.7506

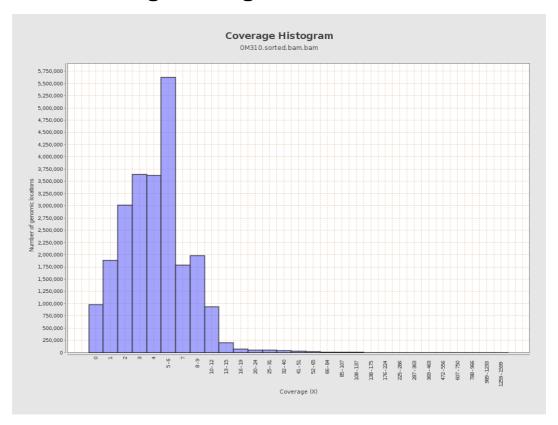


3. Results: Coverage across reference



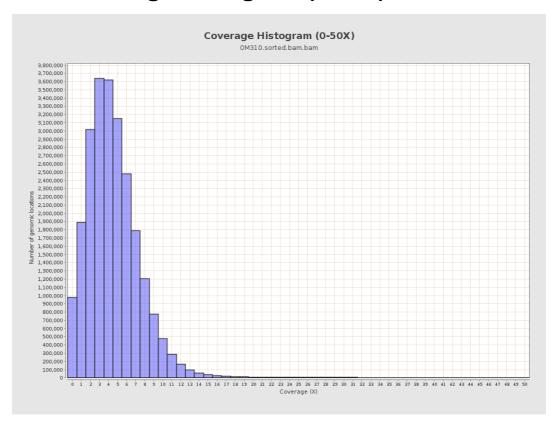


4. Results : Coverage Histogram



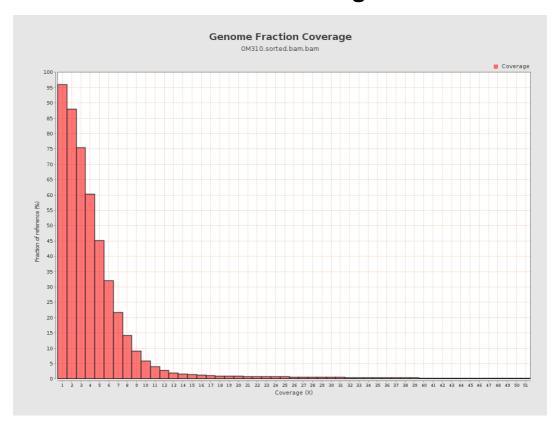


5. Results: Coverage Histogram (0-50X)



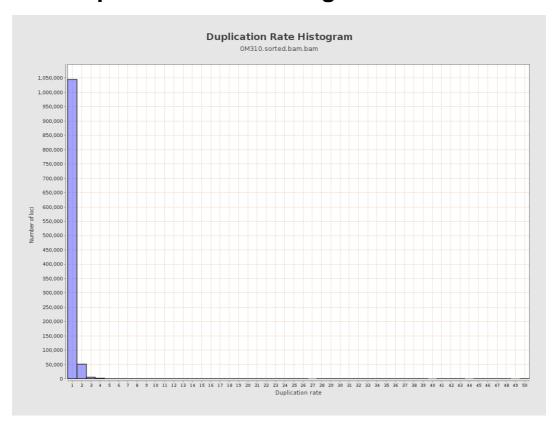


6. Results : Genome Fraction Coverage



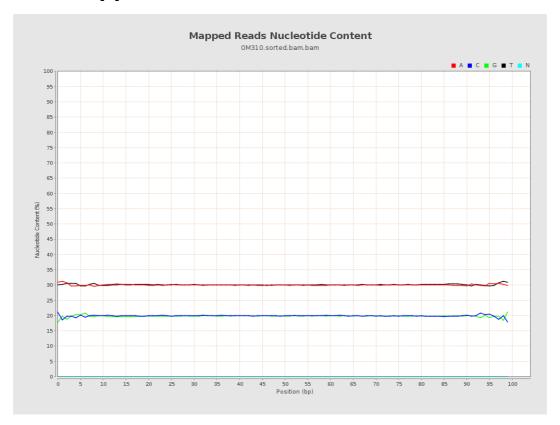


7. Results : Duplication Rate Histogram



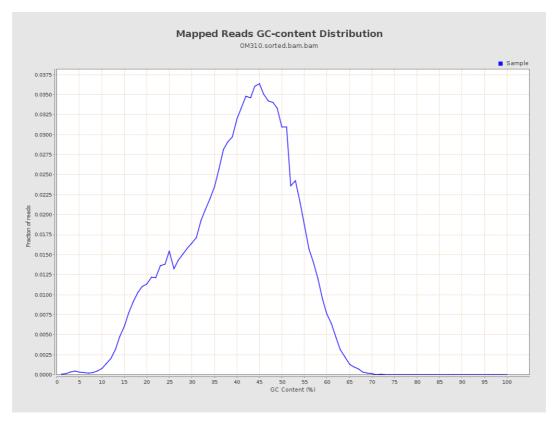


8. Results: Mapped Reads Nucleotide Content



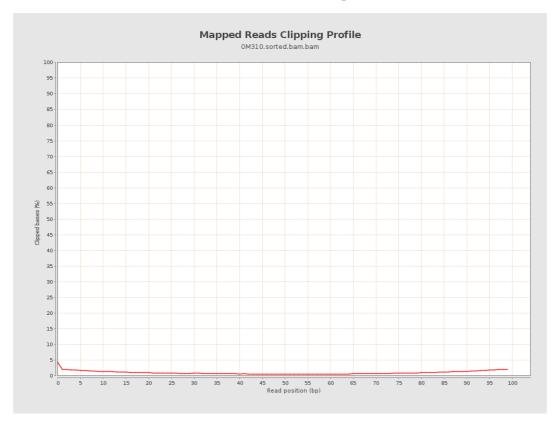


9. Results: Mapped Reads GC-content Distribution



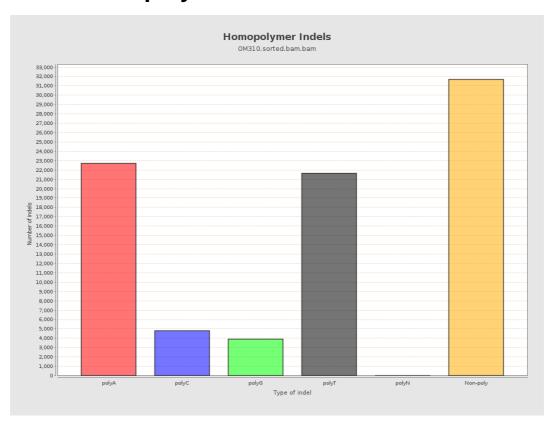


10. Results: Mapped Reads Clipping Profile



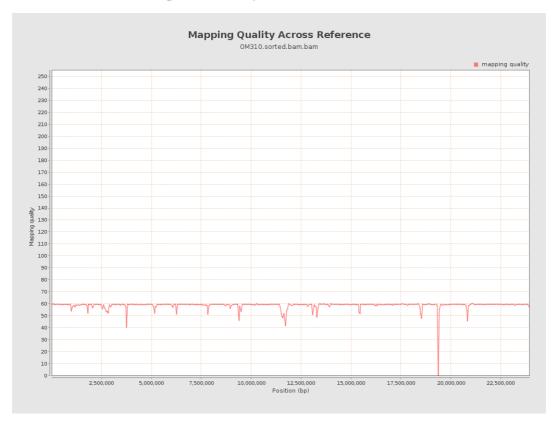


11. Results : Homopolymer Indels



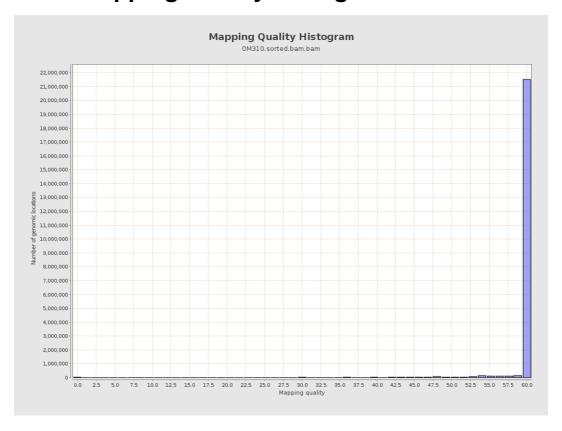


12. Results: Mapping Quality Across Reference



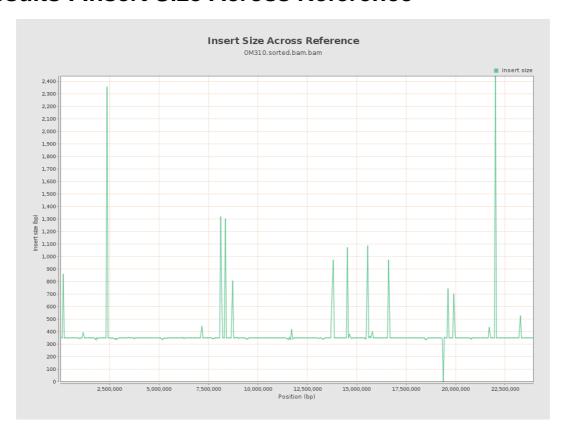


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

