Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:44:00



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM208.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/OM208-
	BiooBarcode19_GTGAAA_R1.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM208-
	BiooBarcode19_GTGAAA_R2.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
reaus.	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:44:00 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM208.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	17,086,772
Mapped reads	4,128,426 / 24.16%
Unmapped reads	12,958,346 / 75.84%
Mapped paired reads	4,128,426 / 24.16%
Mapped reads, first in pair	2,068,052 / 12.1%
Mapped reads, second in pair	2,060,374 / 12.06%
Mapped reads, both in pair	3,999,316 / 23.41%
Mapped reads, singletons	129,110 / 0.76%
Read min/max/mean length	30 / 100 / 99.95
Duplicated reads (estimated)	673,699 / 3.94%
Duplication rate	12.7%
Clipped reads	493,202 / 2.89%

2.2. ACGT Content

Number/percentage of A's	117,975,050 / 29.84%
Number/percentage of C's	79,486,972 / 20.1%
Number/percentage of T's	118,602,420 / 30%
Number/percentage of G's	79,314,578 / 20.06%
Number/percentage of N's	35,809 / 0.01%
GC Percentage	40.16%



2.3. Coverage

Mean	16.5198
Standard Deviation	17.7781

2.4. Mapping Quality

Moon Manning Quality	58 29			
Mean Mapping Quality	30.29			

2.5. Insert size

Mean	725.31
Standard Deviation	29,192.18
P25/Median/P75	184 / 192 / 202

2.6. Mismatches and indels

General error rate	1.38%
Mismatches	5,155,838
Insertions	128,980
Mapped reads with at least one insertion	2.95%
Deletions	146,400
Mapped reads with at least one deletion	3.32%
Homopolymer indels	63.76%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation

.00000000000000000000000000000000000000		100000000000000000000000000000000000000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	14514728	14.8531	7.66
gi 107412068 2 emb LT615 257.1	860454	13228792	15.3742	10.8385
gi 107412086 5 emb LT615 258.1	989719	18209437	18.3986	22.6575
gi 107412108 6 emb LT615 259.1	935450	17002111	18.1753	22.4898
gi 107412130 1 emb LT615 260.1	1432239	25067522	17.5023	16.303
gi 107412161 5 emb LT615 261.1	1080962	18195663	16.8328	14.1883
gi 107412187 1 emb LT615 262.1	1545099	24908848	16.1212	7.9888
gi 107412223 5 emb LT615 263.1	1585108	26170442	16.5102	24.7114
gi 107412259 0 emb LT615 264.1	2122358	33777168	15.9149	7.9351
gi 107412305 0 emb LT615 265.1	1754192	29259955	16.68	37.6682
gi 107412342 1 emb LT615	2150147	36700024	17.0686	19.477

				CENTRO DE INVESTIGACION
266.1				
gi 107412389	3031036	49051654	16.1831	14.8991
8 emb LT615				
267.1				
gi 107412458	2359348	37622520	15.9462	14.0892
8 emb LT615				
268.1				
gi 107412506	3135668	52087784	16.6114	7.4576
5 emb LT615				
269.1				

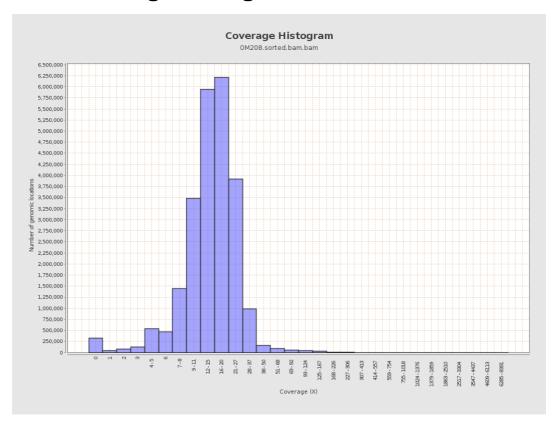


3. Results: Coverage across reference



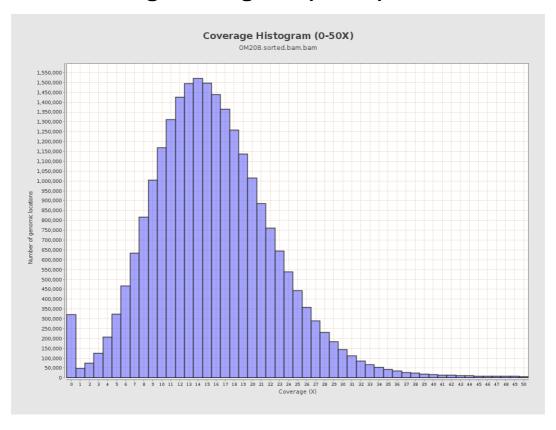


4. Results: Coverage Histogram



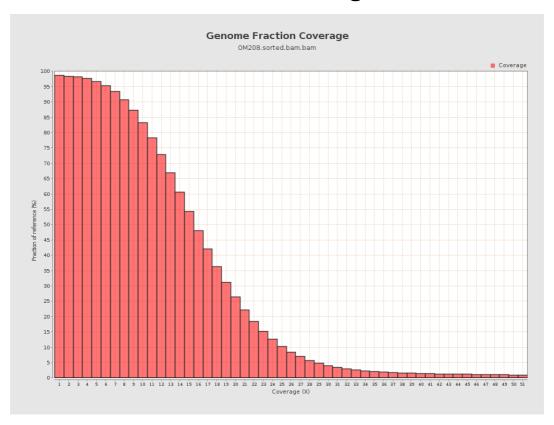


5. Results: Coverage Histogram (0-50X)



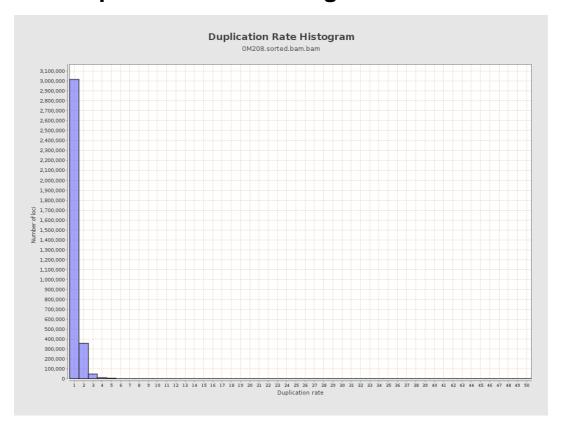


6. Results : Genome Fraction Coverage



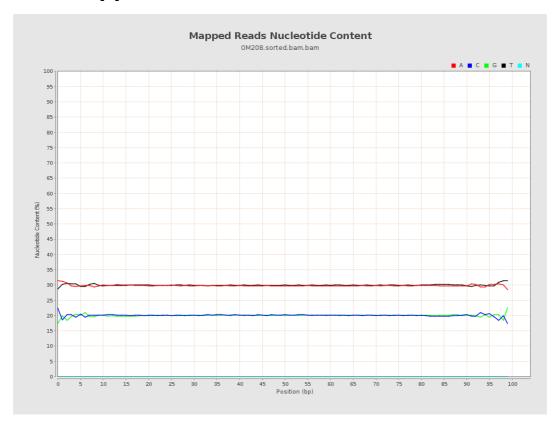


7. Results: Duplication Rate Histogram



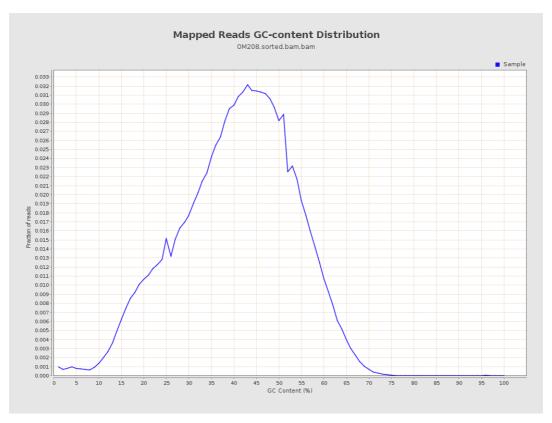


8. Results: Mapped Reads Nucleotide Content



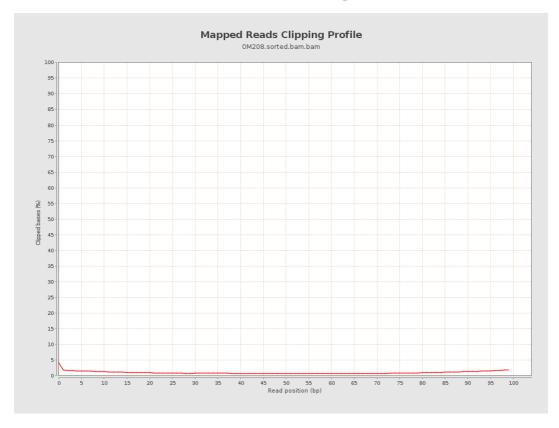


9. Results: Mapped Reads GC-content Distribution



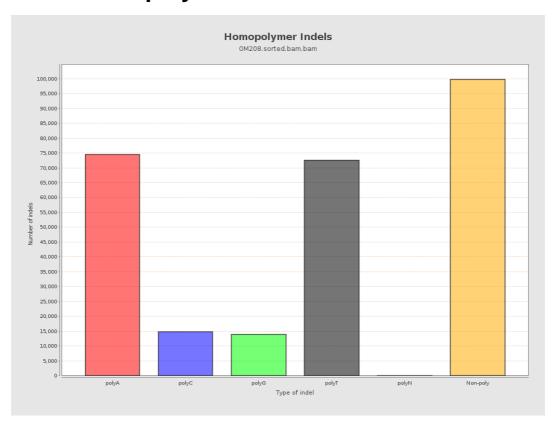


10. Results: Mapped Reads Clipping Profile



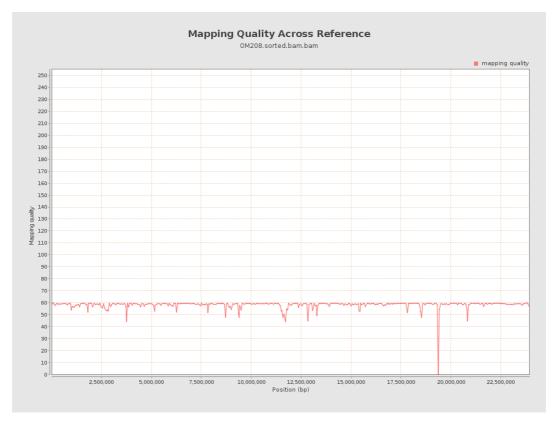


11. Results : Homopolymer Indels



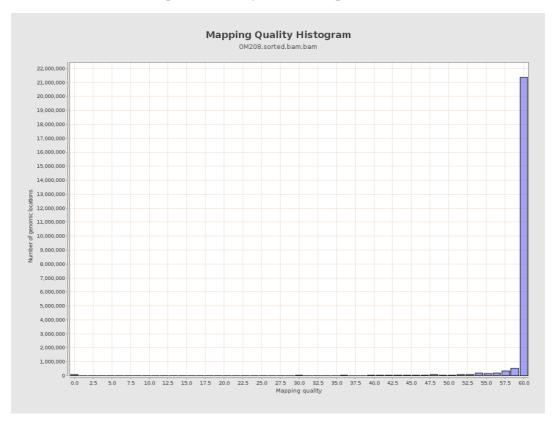


12. Results: Mapping Quality Across Reference



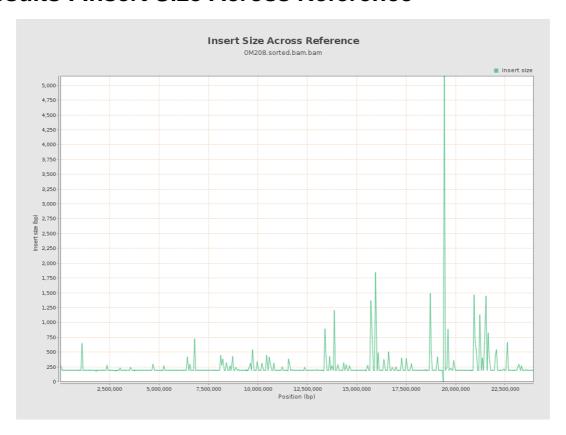


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

