Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 13:33:59



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM143.sorted.bam.ba m -nw 400 -hm 3

1.2. Alignment

Command line:	bwa mem -M
Command line.	/home/vdp5/data/salvador_vivax_asia
	2016/first-
	SAMEA2376790/pvivax_sal1_SAME
	A2376790.fasta
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM143-
	BiooBarcode17_GTAGAG_R2.fastq.
	.
	gz //home/vdp5/data/cambodia_samples/
	sequences_gz/OM143-
	BiooBarcode17_GTAGAG_R1.fastq.
	·
	gz
Draw chromosome limits:	no
Analyze overlapping paired-end	no
reads:	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 13:33:58 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/
Di divi ilio.	sequences_bam/OM143.sorted.bam.
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Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	6,807,050
Mapped reads	5,012,018 / 73.63%
Unmapped reads	1,795,032 / 26.37%
Mapped paired reads	5,012,018 / 73.63%
Mapped reads, first in pair	2,500,820 / 36.74%
Mapped reads, second in pair	2,511,198 / 36.89%
Mapped reads, both in pair	4,936,099 / 72.51%
Mapped reads, singletons	75,919 / 1.12%
Read min/max/mean length	30 / 100 / 99.86
Duplicated reads (estimated)	832,858 / 12.24%
Duplication rate	14.11%
Clipped reads	476,201 / 7%

2.2. ACGT Content

Number/percentage of A's	143,087,867 / 29.4%
Number/percentage of C's	100,245,739 / 20.6%
Number/percentage of T's	143,499,186 / 29.49%
Number/percentage of G's	99,808,569 / 20.51%
Number/percentage of N's	25,127 / 0.01%
GC Percentage	41.11%



2.3. Coverage

Mean	20.3313
Standard Deviation	17.5595

2.4. Mapping Quality

Maan Manning Quality	F0 C0
Mean Mapping Quality	58.63

2.5. Insert size

Mean	838.41	
Standard Deviation	25,640.92	
P25/Median/P75	301 / 312 / 321	

2.6. Mismatches and indels

General error rate	1.21%
Mismatches	5,563,721
Insertions	140,285
Mapped reads with at least one insertion	2.66%
Deletions	162,084
Mapped reads with at least one deletion	3.07%
Homopolymer indels	64.8%

2.7. Chromosome stats

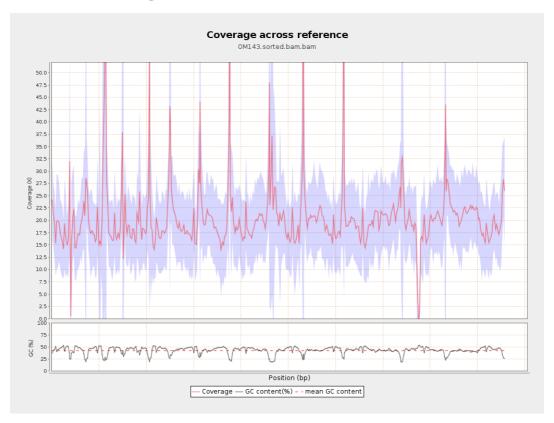
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	18059186	18.4802	7.913
gi 107412068 2 emb LT615 257.1	860454	15697627	18.2434	12.4583
gi 107412086 5 emb LT615 258.1	989719	21160397	21.3802	20.3772
gi 107412108 6 emb LT615 259.1	935450	20625008	22.0482	28.3674
gi 107412130 1 emb LT615 260.1	1432239	28754369	20.0765	19.5961
gi 107412161 5 emb LT615 261.1	1080962	21033818	19.4584	12.0462
gi 107412187 1 emb LT615 262.1	1545099	30539187	19.7652	7.9481
gi 107412223 5 emb LT615 263.1	1585108	32608225	20.5716	12.1292
gi 107412259 0 emb LT615 264.1	2122358	42751588	20.1434	9.5007
gi 107412305 0 emb LT615 265.1	1754192	36847116	21.0052	14.1088
gi 107412342 1 emb LT615	2150147	46399708	21.5798	40.6671

266.1				
gi 107412389 8 emb LT615 267.1	3031036	61514097	20.2947	8.7891
gi 107412458 8 emb LT615 268.1	2359348	45474006	19.274	14.1254
gi 107412506 5 emb LT615 269.1	3135668	65652197	20.9372	7.349

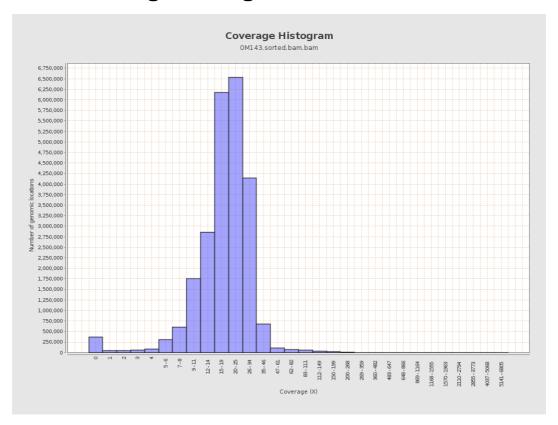


3. Results: Coverage across reference



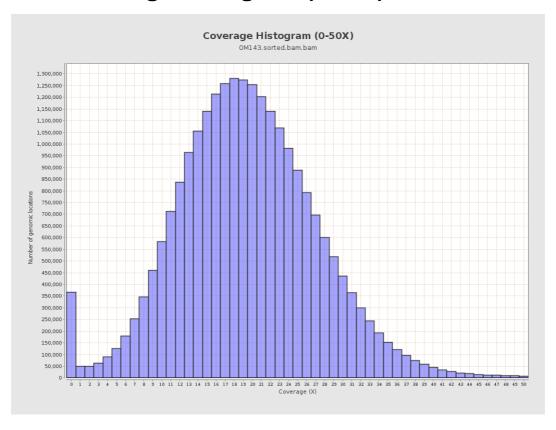


4. Results: Coverage Histogram



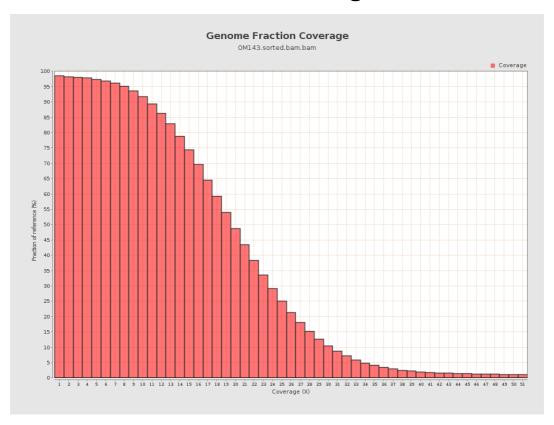


5. Results: Coverage Histogram (0-50X)



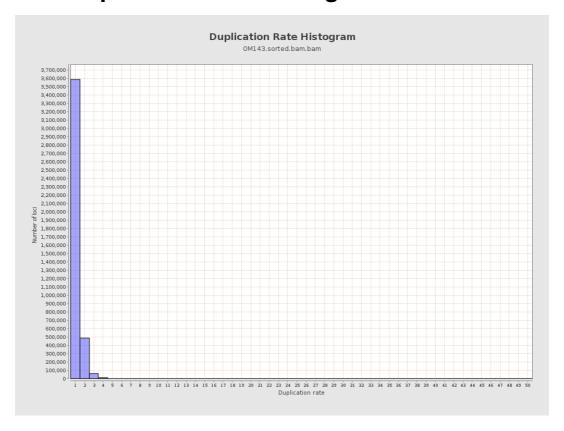


6. Results : Genome Fraction Coverage





7. Results: Duplication Rate Histogram



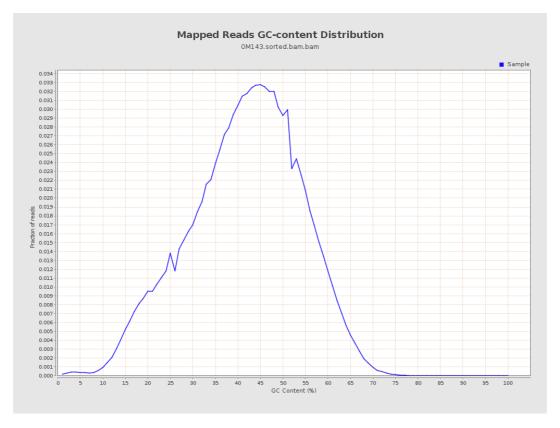


8. Results: Mapped Reads Nucleotide Content



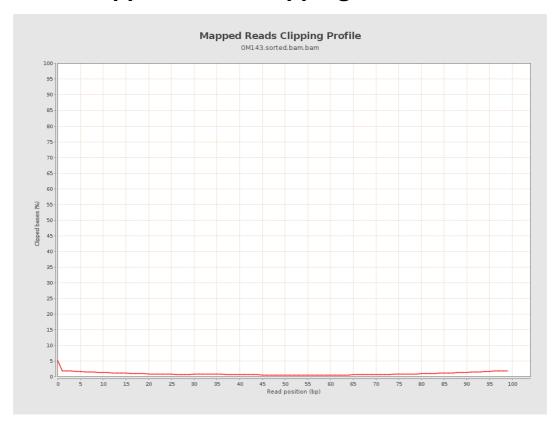


9. Results: Mapped Reads GC-content Distribution



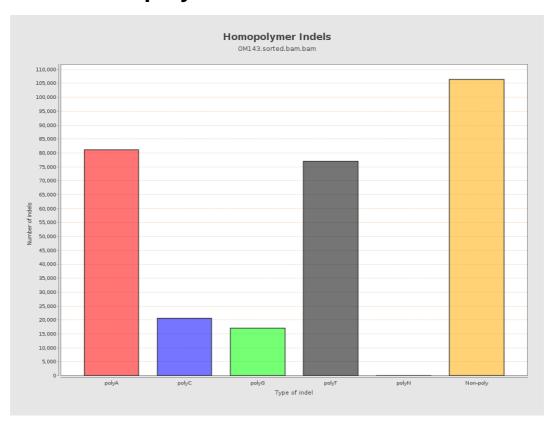


10. Results: Mapped Reads Clipping Profile



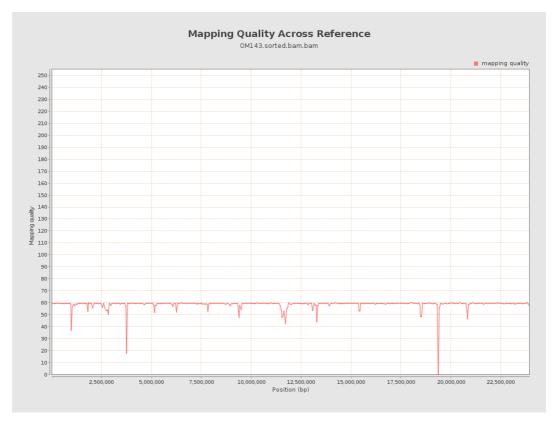


11. Results : Homopolymer Indels



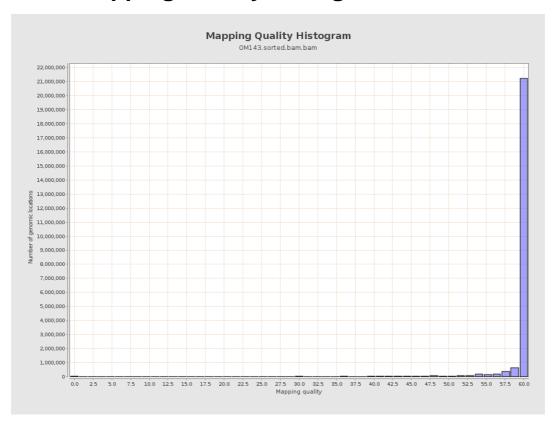


12. Results: Mapping Quality Across Reference



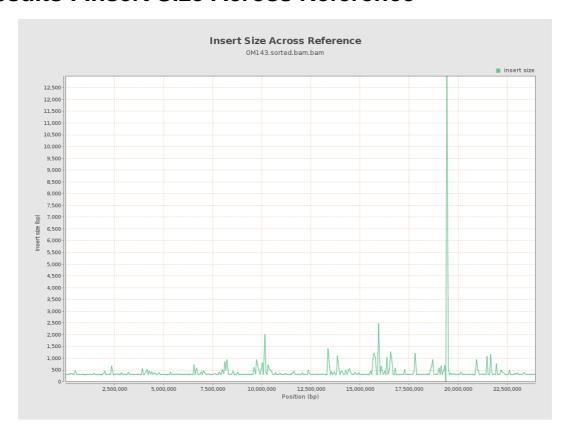


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

