Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:33:12



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM339.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/OM339-
	BiooBarcode43_TACAGC_R1.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM339-
	BiooBarcode43_TACAGC_R2.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
loudo.	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:33:11 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM339.sorted.bam.

Bioinformatics and Genomics

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bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	61,984,822
Mapped reads	16,834,707 / 27.16%
Unmapped reads	45,150,115 / 72.84%
Mapped paired reads	16,834,707 / 27.16%
Mapped reads, first in pair	8,432,237 / 13.6%
Mapped reads, second in pair	8,402,470 / 13.56%
Mapped reads, both in pair	16,382,068 / 26.43%
Mapped reads, singletons	452,639 / 0.73%
Read min/max/mean length	30 / 100 / 99.95
Duplicated reads (estimated)	6,474,489 / 10.45%
Duplication rate	33.71%
Clipped reads	2,226,315 / 3.59%

2.2. ACGT Content

Number/percentage of A's	487,597,466 / 30.36%
Number/percentage of C's	314,326,934 / 19.57%
Number/percentage of T's	490,540,799 / 30.55%
Number/percentage of G's	313,343,345 / 19.51%
Number/percentage of N's	141,994 / 0.01%
GC Percentage	39.09%



2.3. Coverage

Mean	67.0989
Standard Deviation	79.2495

2.4. Mapping Quality

Mean Mapping Quality	58.36			
Invied in Mapping Quality	30.30			

2.5. Insert size

Mean	677.71	
Standard Deviation	26,323.11	
P25/Median/P75	172 / 186 / 201	

2.6. Mismatches and indels

General error rate	1.58%
Mismatches	24,115,843
Insertions	580,219
Mapped reads with at least one insertion	3.23%
Deletions	653,657
Mapped reads with at least one deletion	3.63%
Homopolymer indels	60.77%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation

.00000000000000000000000000000000000000		30.4.0.000		CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	58498512	59.8624	42.9894
gi 107412068 2 emb LT615 257.1	860454	63575129	73.8856	79.7926
gi 107412086 5 emb LT615 258.1	989719	79936197	80.7666	128.4827
gi 107412108 6 emb LT615 259.1	935450	68045917	72.7414	101.8037
gi 107412130 1 emb LT615 260.1	1432239	100785421	70.3691	76.7732
gi 107412161 5 emb LT615 261.1	1080962	76263264	70.5513	74.8709
gi 107412187 1 emb LT615 262.1	1545099	94470391	61.142	26.309
gi 107412223 5 emb LT615 263.1	1585108	104409267	65.8689	91.5155
gi 107412259 0 emb LT615 264.1	2122358	135503209	63.8456	37.6827
gi 107412305 0 emb LT615 265.1	1754192	119465768	68.103	133.6404
gi 107412342 1 emb LT615	2150147	146047466	67.9244	111.1796

266.1				
gi 107412389 8 emb LT615 267.1	3031036	192137510	63.39	49.3047
gi 107412458 8 emb LT615 268.1	2359348	162196139	68.7462	85.8028
gi 107412506 5 emb LT615 269.1	3135668	206287620	65.7875	26.399

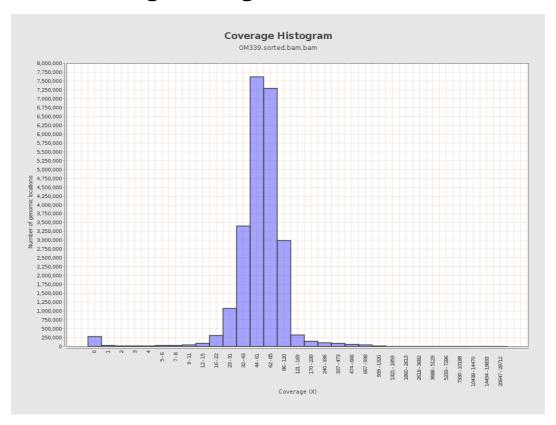


3. Results: Coverage across reference



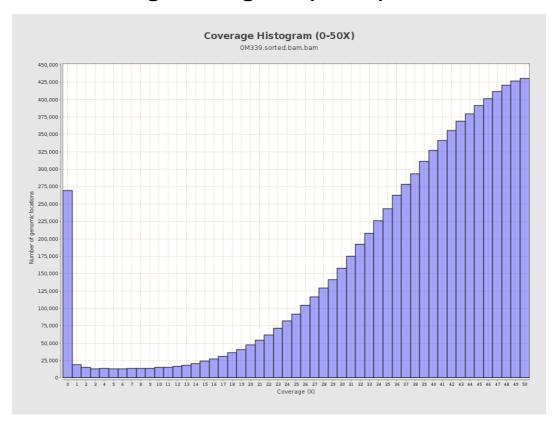


4. Results: Coverage Histogram



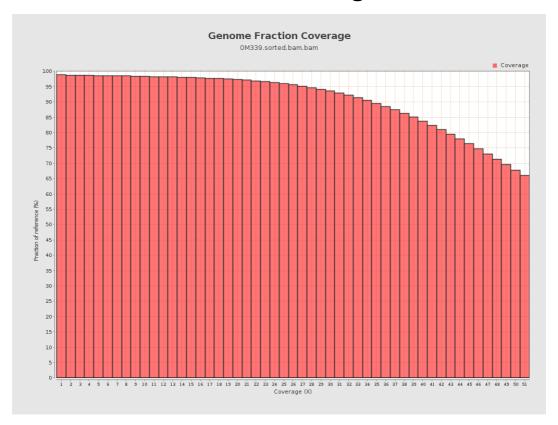


5. Results: Coverage Histogram (0-50X)



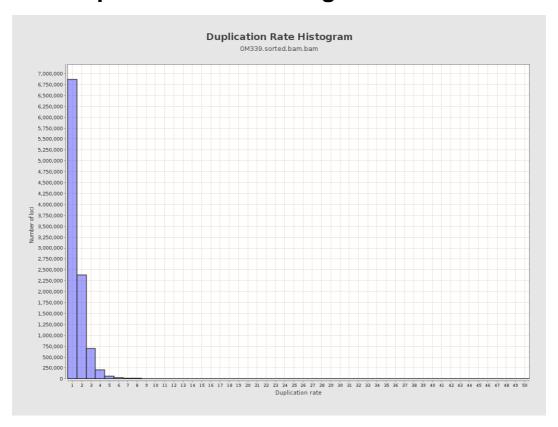


6. Results : Genome Fraction Coverage



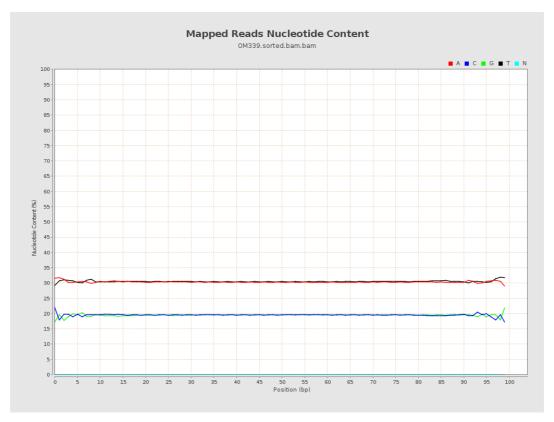


7. Results: Duplication Rate Histogram



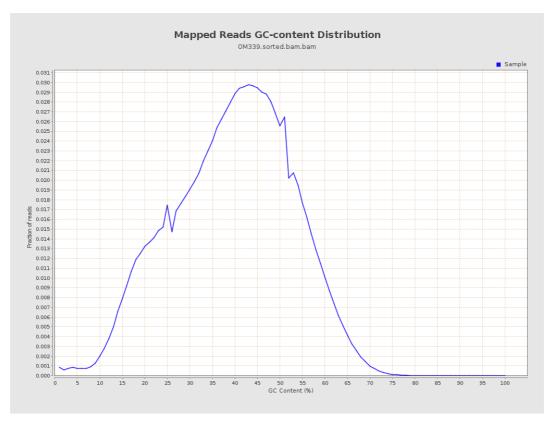


8. Results: Mapped Reads Nucleotide Content



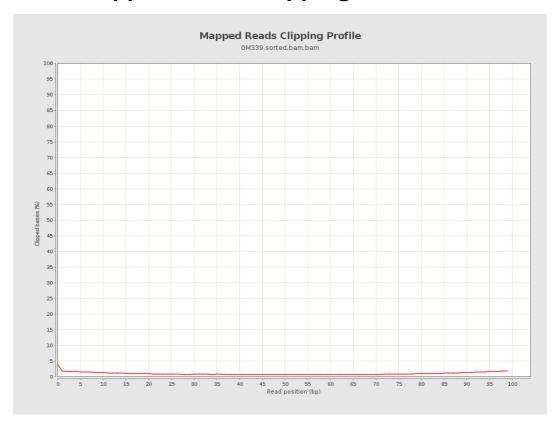


9. Results: Mapped Reads GC-content Distribution



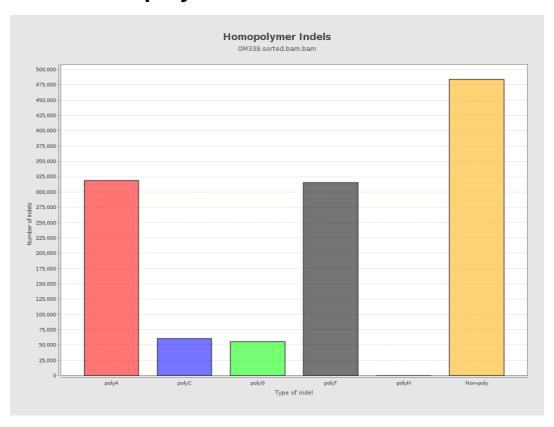


10. Results: Mapped Reads Clipping Profile



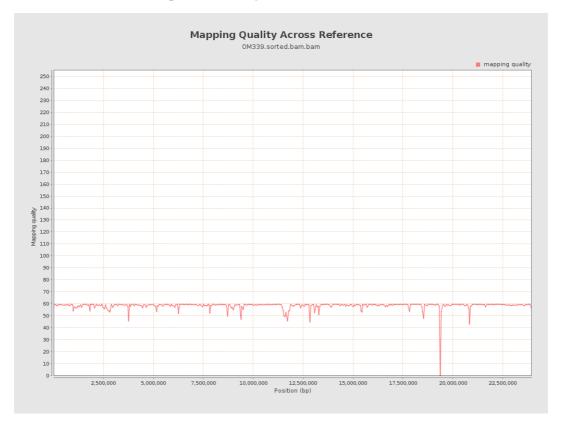


11. Results : Homopolymer Indels



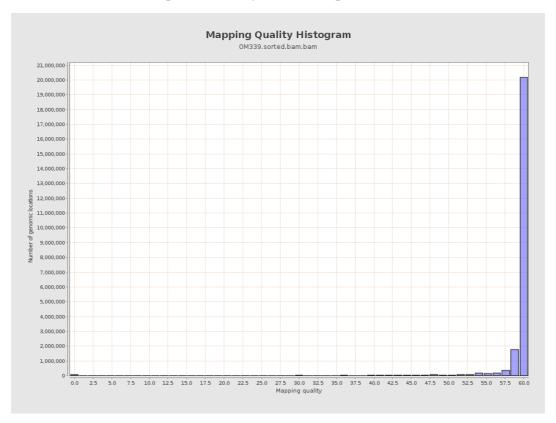


12. Results: Mapping Quality Across Reference



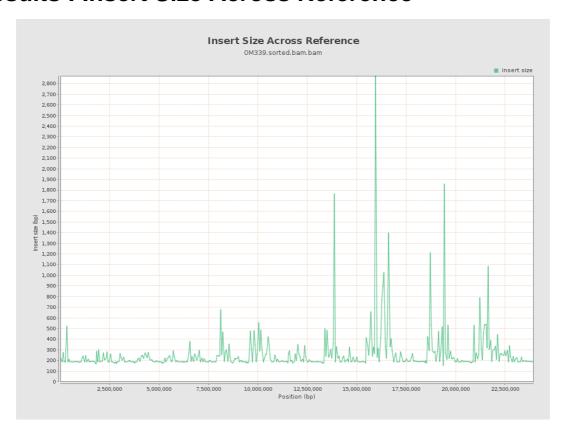


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

