Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:15:27



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM313.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/OM313-
	BiooBarcode39_CTATAC_R1.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM313-
	BiooBarcode39_CTATAC_R2.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
loude.	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:15:26 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM313.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	4,434,021
Mapped reads	1,796,536 / 40.52%
Unmapped reads	2,637,485 / 59.48%
Mapped paired reads	1,796,536 / 40.52%
Mapped reads, first in pair	902,093 / 20.34%
Mapped reads, second in pair	894,443 / 20.17%
Mapped reads, both in pair	1,746,951 / 39.4%
Mapped reads, singletons	49,585 / 1.12%
Read min/max/mean length	30 / 100 / 99.93
Duplicated reads (estimated)	184,656 / 4.16%
Duplication rate	7.29%
Clipped reads	219,222 / 4.94%

2.2. ACGT Content

Number/percentage of A's	52,067,746 / 30.15%
Number/percentage of C's	34,241,428 / 19.83%
Number/percentage of T's	52,214,731 / 30.24%
Number/percentage of G's	34,169,171 / 19.79%
Number/percentage of N's	13,925 / 0.01%
GC Percentage	39.61%



2.3. Coverage

Mean	7.2157
Standard Deviation	7.9361

2.4. Mapping Quality

Moon Monning Quality	58 47
Mean Mapping Quality	30.47

2.5. Insert size

Mean	1,029.69
Standard Deviation	32,440.84
P25/Median/P75	337 / 350 / 360

2.6. Mismatches and indels

General error rate	1.65%
Mismatches	2,712,123
Insertions	59,446
Mapped reads with at least one insertion	3.12%
Deletions	66,864
Mapped reads with at least one deletion	3.51%
Homopolymer indels	62.22%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	6097420	6.2396	4.0499
gi 107412068 2 emb LT615 257.1	860454	6197762	7.2029	6.3913
gi 107412086 5 emb LT615 258.1	989719	8159003	8.2438	11.8962
gi 107412108 6 emb LT615 259.1	935450	7426895	7.9394	13.2541
gi 107412130 1 emb LT615 260.1	1432239	10928815	7.6306	8.2544
gi 107412161 5 emb LT615 261.1	1080962	8055492	7.4522	7.682
gi 107412187 1 emb LT615 262.1	1545099	10284620	6.6563	3.7448
gi 107412223 5 emb LT615 263.1	1585108	10885325	6.8672	5.8594
gi 107412259 0 emb LT615 264.1	2122358	14747422	6.9486	4.8943
gi 107412305 0 emb LT615 265.1	1754192	13603734	7.755	9.7455
gi 107412342 1 emb LT615	2150147	16129960	7.5018	14.2966

266.1				
gi 107412389 8 emb LT615 267.1	3031036	21008007	6.931	4.0249
gi 107412458 8 emb LT615 268.1	2359348	16303953	6.9104	8.2309
gi 107412506 5 emb LT615 269.1	3135668	23053113	7.3519	3.8017

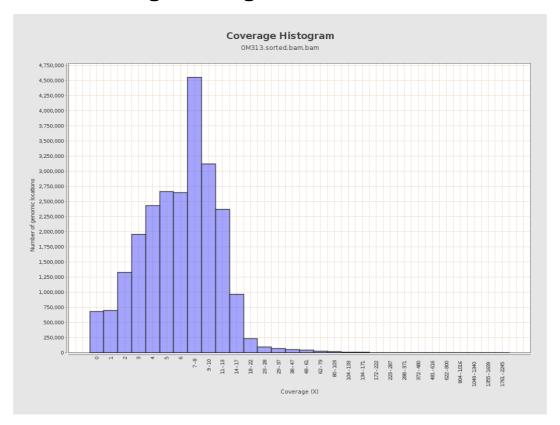


3. Results : Coverage across reference



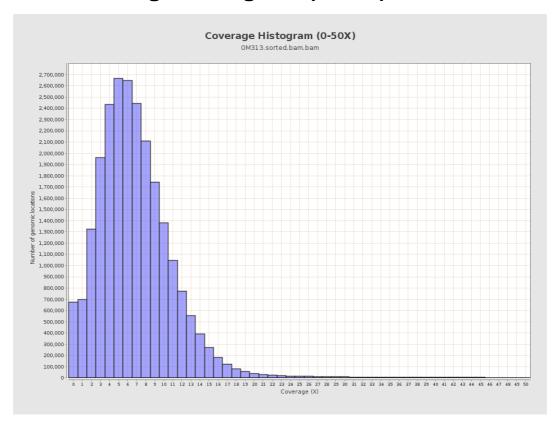


4. Results : Coverage Histogram



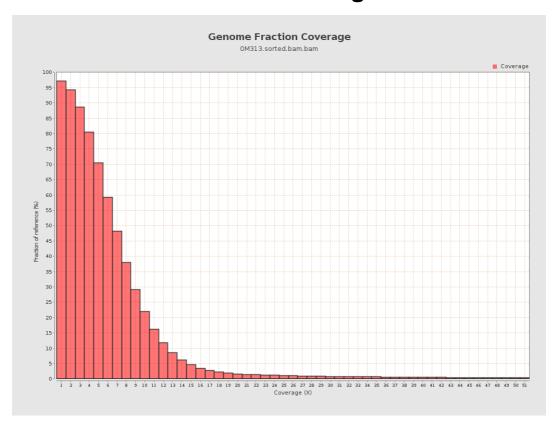


5. Results: Coverage Histogram (0-50X)



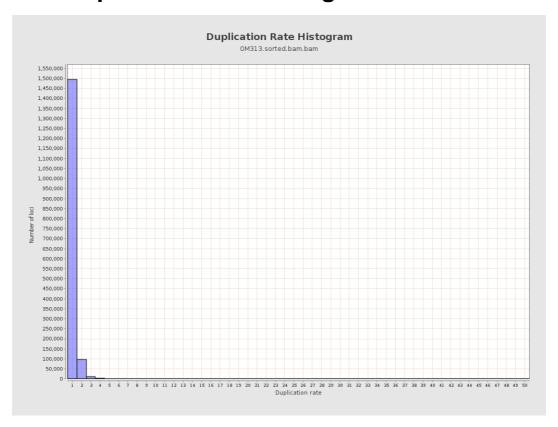


6. Results : Genome Fraction Coverage



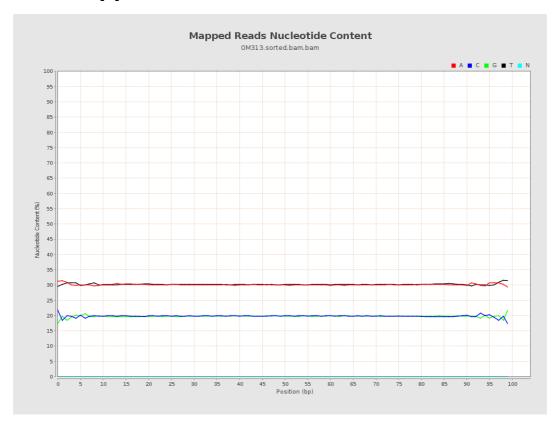


7. Results: Duplication Rate Histogram



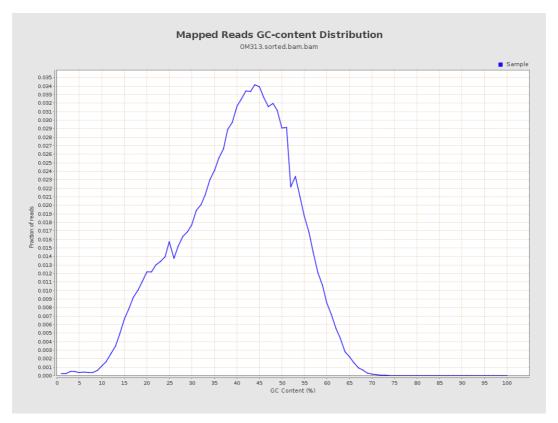


8. Results: Mapped Reads Nucleotide Content



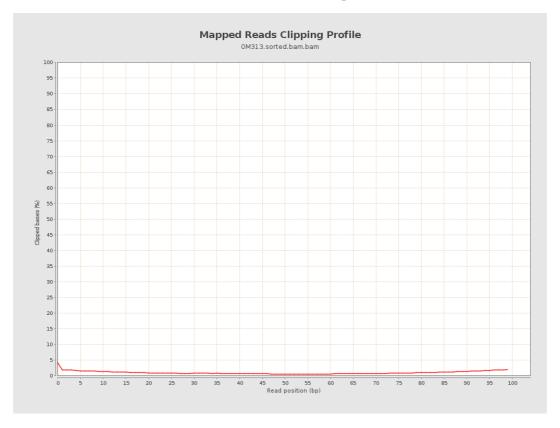


9. Results: Mapped Reads GC-content Distribution



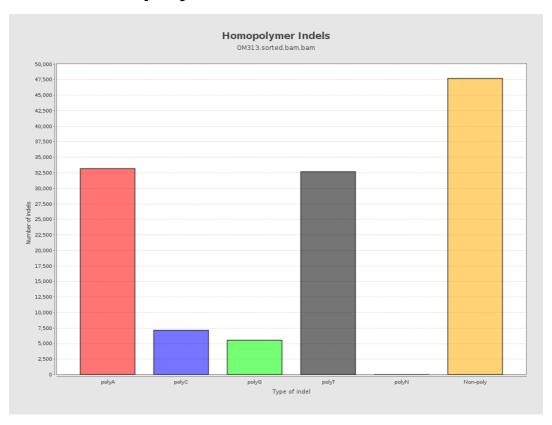


10. Results: Mapped Reads Clipping Profile





11. Results : Homopolymer Indels



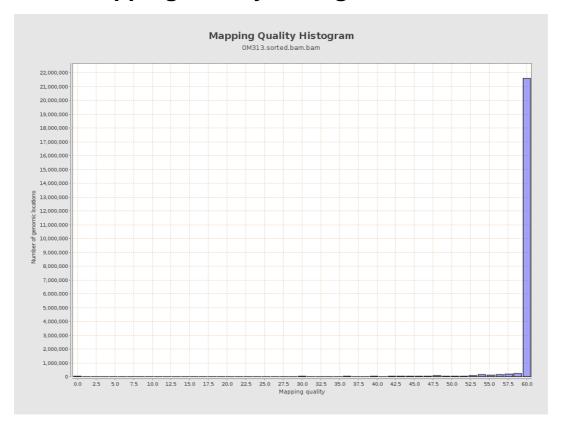


12. Results: Mapping Quality Across Reference





13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

