Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 14:14:49



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/OM312.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/OM312-
	BiooBarcode25_ACTGAT_R1.fastq.g
	z
	/home/vdp5/data/cambodia_samples/
	sequences_gz/OM312-
	BiooBarcode25_ACTGAT_R2.fastq.g
	Z
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
reads.	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 14:14:48 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/OM312.sorted.bam.

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

bam



2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	38,764,803
Mapped reads	5,241,454 / 13.52%
Unmapped reads	33,523,349 / 86.48%
Mapped paired reads	5,241,454 / 13.52%
Mapped reads, first in pair	2,632,469 / 6.79%
Mapped reads, second in pair	2,608,985 / 6.73%
Mapped reads, both in pair	4,935,066 / 12.73%
Mapped reads, singletons	306,388 / 0.79%
Read min/max/mean length	30 / 100 / 99.97
Duplicated reads (estimated)	1,160,321 / 2.99%
Duplication rate	16%
Clipped reads	796,839 / 2.06%

2.2. ACGT Content

Number/percentage of A's	148,714,116 / 30.16%
Number/percentage of C's	97,446,726 / 19.76%
Number/percentage of T's	149,654,005 / 30.35%
Number/percentage of G's	97,331,749 / 19.74%
Number/percentage of N's	40,663 / 0.01%
GC Percentage	39.5%



2.3. Coverage

Mean	20.6059
Standard Deviation	37.3116

2.4. Mapping Quality

Mean Mapping Quality	57 71
wide in the pring seatility	01.11

2.5. Insert size

Mean	892.97
Standard Deviation	26,611.55
P25/Median/P75	323 / 342 / 352

2.6. Mismatches and indels

General error rate	1.62%
Mismatches	7,602,623
Insertions	173,474
Mapped reads with at least one insertion	3.11%
Deletions	196,648
Mapped reads with at least one deletion	3.47%
Homopolymer indels	61.36%

2.7. Chromosome stats

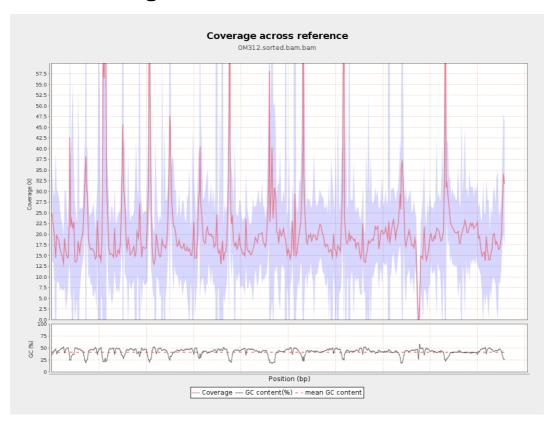
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	17772060	18.1864	12.1477
gi 107412068 2 emb LT615 257.1	860454	17839238	20.7324	22.4777
gi 107412086 5 emb LT615 258.1	989719	23283094	23.525	35.7101
gi 107412108 6 emb LT615 259.1	935450	20875501	22.316	32.9218
gi 107412130 1 emb LT615 260.1	1432239	31594216	22.0593	26.2996
gi 107412161 5 emb LT615 261.1	1080962	21892660	20.2529	21.0194
gi 107412187 1 emb LT615 262.1	1545099	29682531	19.2108	11.9352
gi 107412223 5 emb LT615 263.1	1585108	32749359	20.6606	48.9317
gi 107412259 0 emb LT615 264.1	2122358	41462405	19.536	13.2203
gi 107412305 0 emb LT615 265.1	1754192	38262775	21.8122	97.6261
gi 107412342 1 emb LT615	2150147	46726506	21.7318	42.138

266.1				
gi 107412389 8 emb LT615 267.1	3031036	60445843	19.9423	29.0677
gi 107412458 8 emb LT615 268.1	2359348	46349933	19.6452	21.6848
gi 107412506 5 emb LT615 269.1	3135668	64761191	20.6531	11.3495

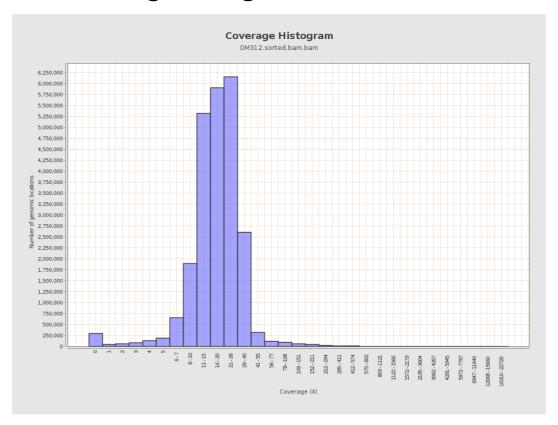


3. Results: Coverage across reference



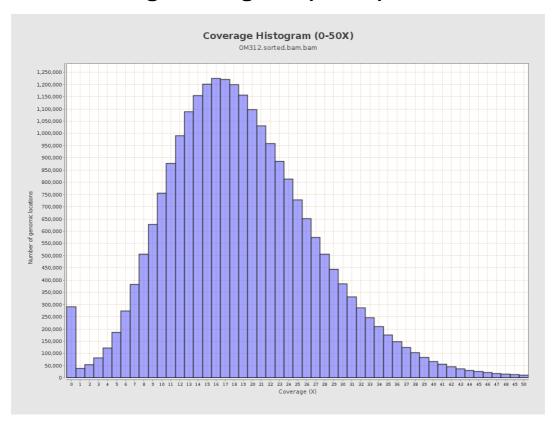


4. Results: Coverage Histogram



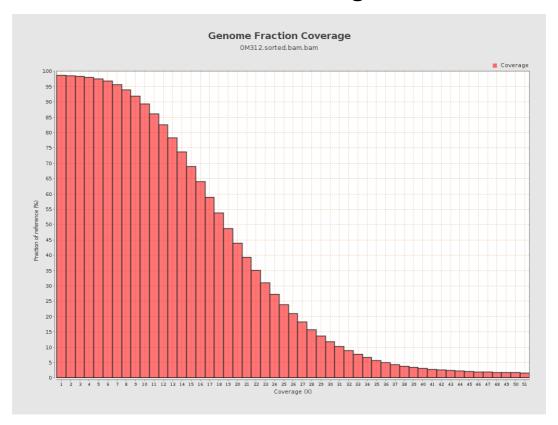


5. Results: Coverage Histogram (0-50X)



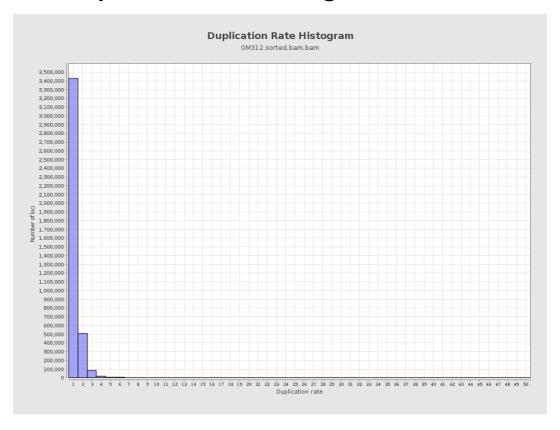


6. Results : Genome Fraction Coverage



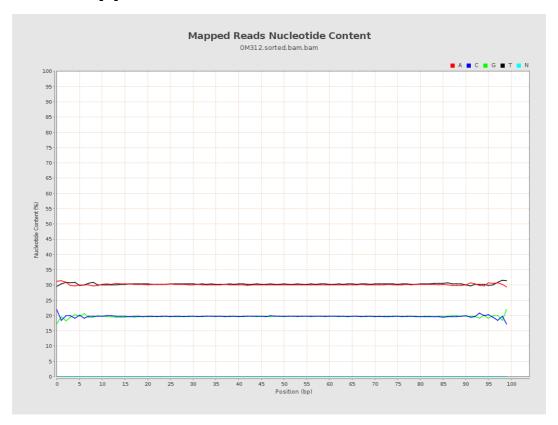


7. Results: Duplication Rate Histogram



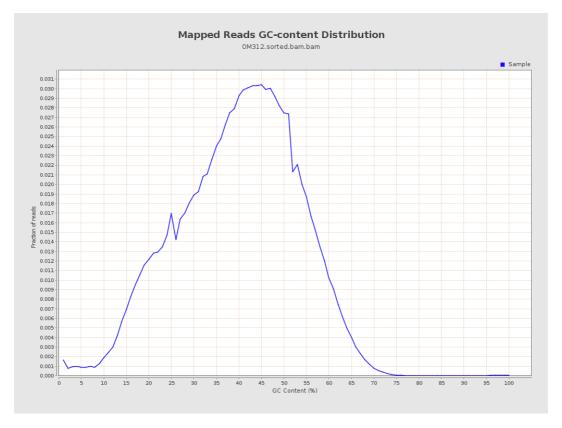


8. Results: Mapped Reads Nucleotide Content



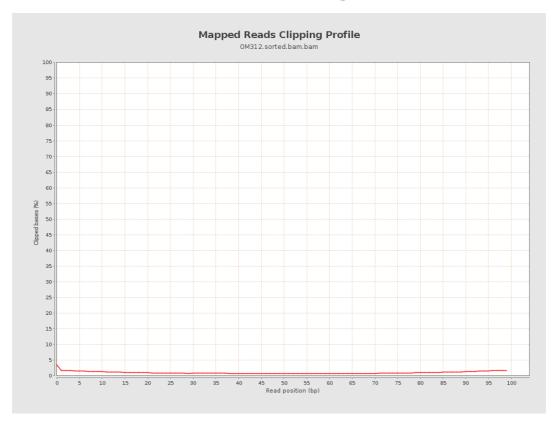


9. Results: Mapped Reads GC-content Distribution



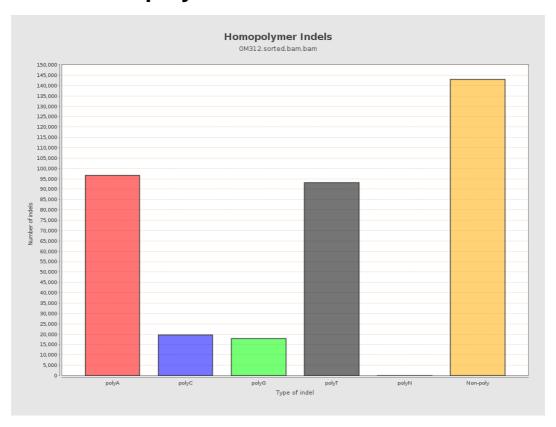


10. Results: Mapped Reads Clipping Profile



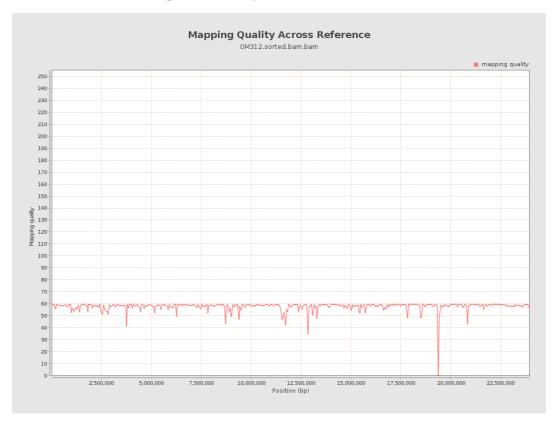


11. Results : Homopolymer Indels



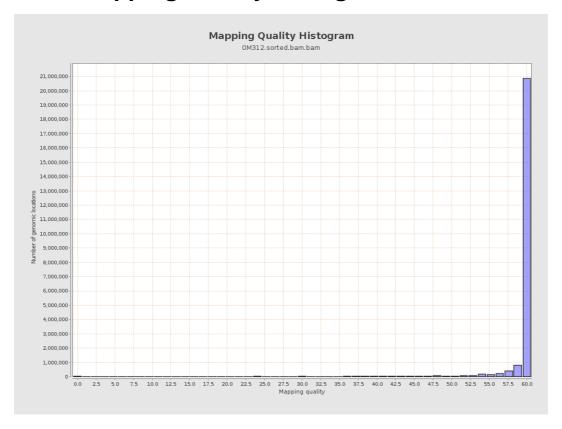


12. Results: Mapping Quality Across Reference



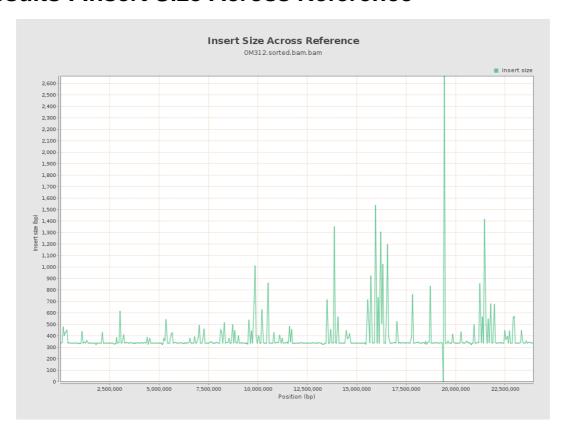


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

