Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.1 2016/10/23 11:44:23



1. Input data & parameters

1.1. QualiMap command line

qualimap bamqc -bam

/home/vdp5/data/cambodia_samples/sequences_bam/KP017.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/KP017-
	BiooBarcode_23_GAGTGG_R2.fastq
	.gz
	/home/vdp5/data/cambodia_samples/
	sequences_gz/KP017-
	BiooBarcode_23_GAGTGG_R1.fastq
	.gz
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
leads.	
Program:	bwa (0.7.15-r1140)
Analysis date:	Sun Oct 23 11:44:22 EDT 2016
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/home/vdp5/data/cambodia_samples/sequences_bam/KP017.sorted.bam.b

Bioinformatics and Genomics

PRINCIPE FELIPE
CENTRO DE INVESTIGACION

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2. Summary

2.1. Globals

Reference size	23,958,997
Number of reads	22,797,277
Mapped reads	18,190,531 / 79.79%
Unmapped reads	4,606,746 / 20.21%
Mapped paired reads	18,190,531 / 79.79%
Mapped reads, first in pair	9,063,542 / 39.76%
Mapped reads, second in pair	9,126,989 / 40.04%
Mapped reads, both in pair	17,966,020 / 78.81%
Mapped reads, singletons	224,511 / 0.98%
Read min/max/mean length	30 / 100 / 99.82
Duplicated reads (estimated)	7,032,848 / 30.85%
Duplication rate	39.31%
Clipped reads	1,435,946 / 6.3%

2.2. ACGT Content

Number/percentage of A's	490,929,424 / 27.7%
Number/percentage of C's	395,019,825 / 22.29%
Number/percentage of T's	492,420,023 / 27.79%
Number/percentage of G's	393,822,032 / 22.22%
Number/percentage of N's	151,125 / 0.01%
GC Percentage	44.51%



2.3. Coverage

Mean	74.0412
Standard Deviation	37.539

2.4. Mapping Quality

Maan Manning Quality	F0.70			
Mean Mapping Quality	58.72			

2.5. Insert size

Mean	1,035.58
Standard Deviation	30,854.5
P25/Median/P75	246 / 307 / 366

2.6. Mismatches and indels

General error rate	0.73%
Mismatches	11,900,084
Insertions	338,124
Mapped reads with at least one insertion	1.8%
Deletions	475,448
Mapped reads with at least one deletion	2.52%
Homopolymer indels	71.21%

2.7. Chromosome stats

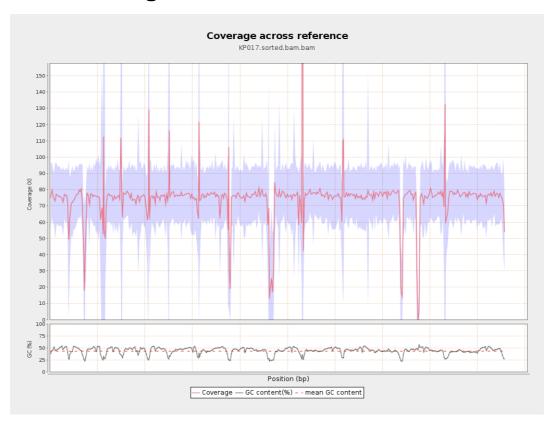
Name	Length	Mapped bases	Mean coverage	Standard deviation

				CENTRO DE INVESTIGACION
gi 107412047 8 emb LT615 256.1	977217	73366105	75.0766	17.7179
gi 107412068 2 emb LT615 257.1	860454	58954658	68.5158	27.8127
gi 107412086 5 emb LT615 258.1	989719	70941940	71.6789	38.1194
gi 107412108 6 emb LT615 259.1	935450	69703696	74.5135	47.2251
gi 107412130 1 emb LT615 260.1	1432239	106076268	74.0632	30.3812
gi 107412161 5 emb LT615 261.1	1080962	81720440	75.5997	30.2748
gi 107412187 1 emb LT615 262.1	1545099	117675030	76.1602	18.6371
gi 107412223 5 emb LT615 263.1	1585108	120216927	75.8415	26.6443
gi 107412259 0 emb LT615 264.1	2122358	154878865	72.9749	24.2046
gi 107412305 0 emb LT615 265.1	1754192	117756741	67.1288	32.7788
gi 107412342 1 emb LT615	2150147	168264929	78.2574	85.5185

				CENTRO DE INVESTIGACION
266.1				
gi 107412389 8 emb LT615 267.1	3031036	232372577	76.6644	20.5345
gi 107412458 8 emb LT615 268.1	2359348	164607338	69.7681	41.6361
gi 107412506 5 emb LT615 269.1	3135668	237416488	75.7148	16.2199

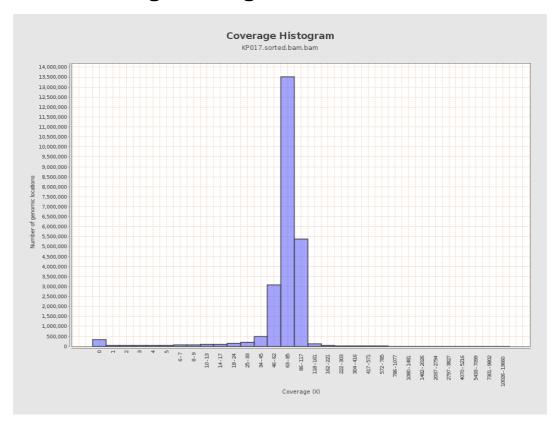


3. Results : Coverage across reference



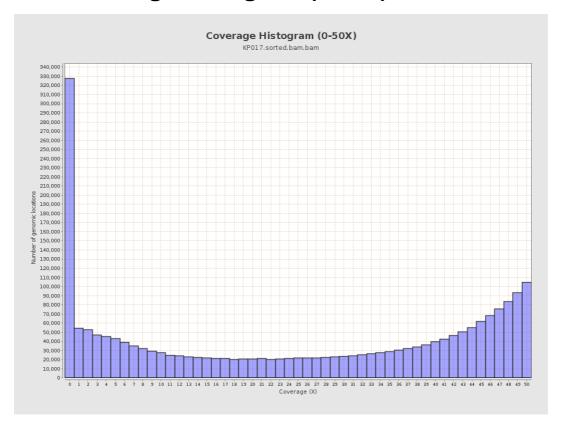


4. Results: Coverage Histogram



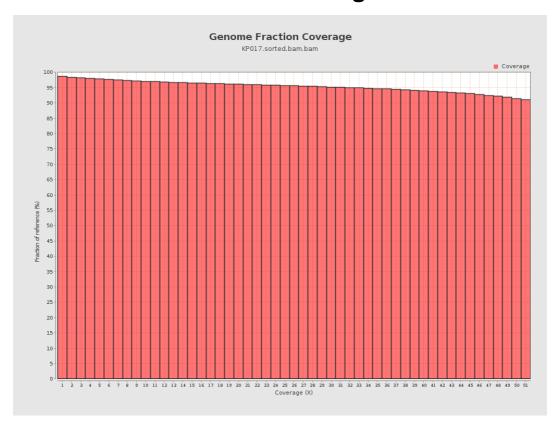


5. Results: Coverage Histogram (0-50X)



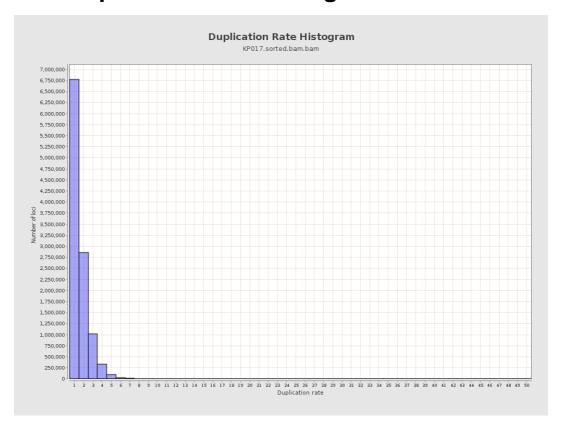


6. Results : Genome Fraction Coverage



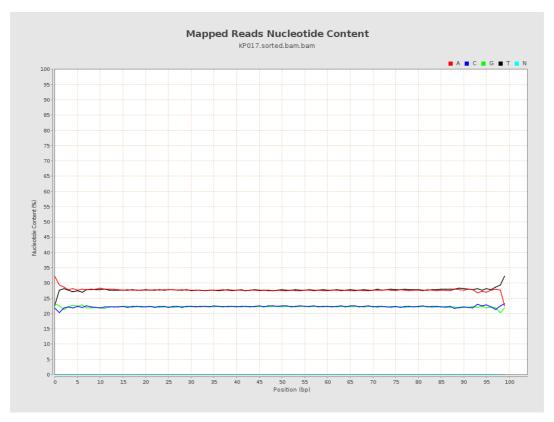


7. Results: Duplication Rate Histogram



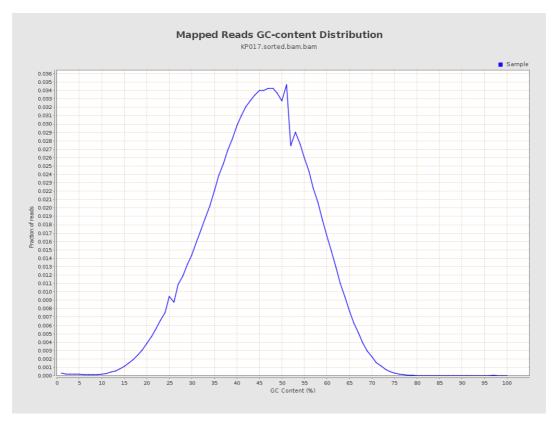


8. Results: Mapped Reads Nucleotide Content



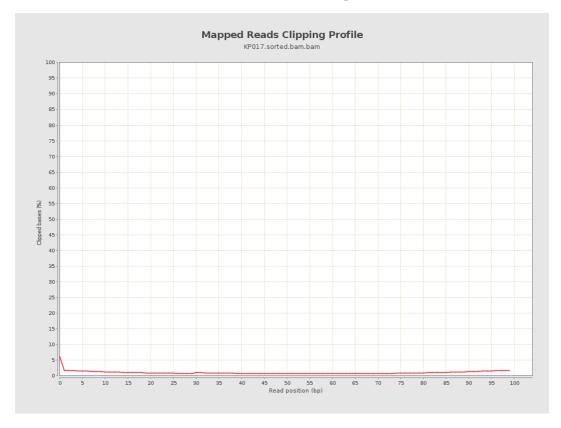


9. Results: Mapped Reads GC-content Distribution



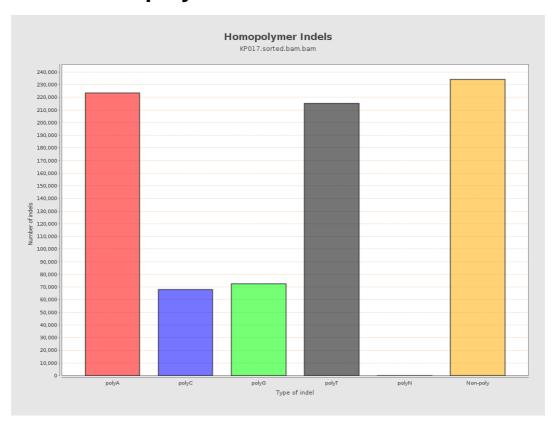


10. Results: Mapped Reads Clipping Profile



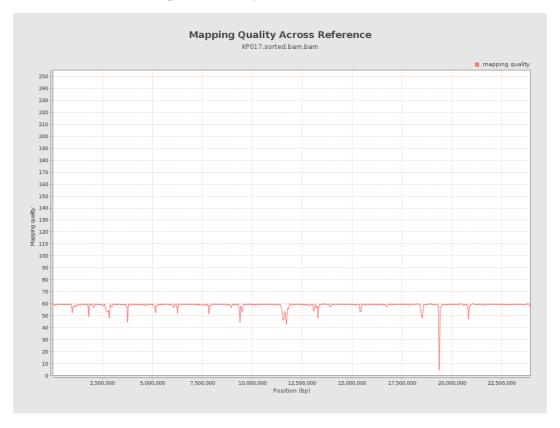


11. Results : Homopolymer Indels



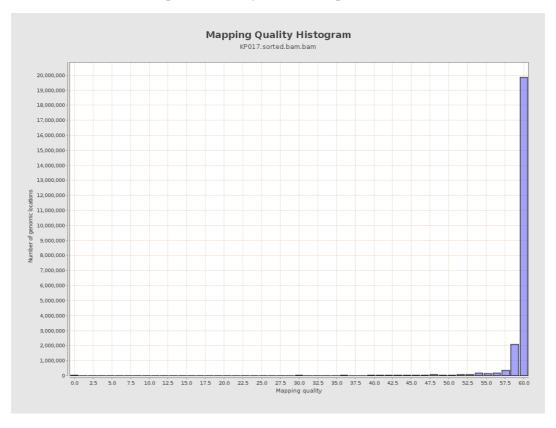


12. Results: Mapping Quality Across Reference



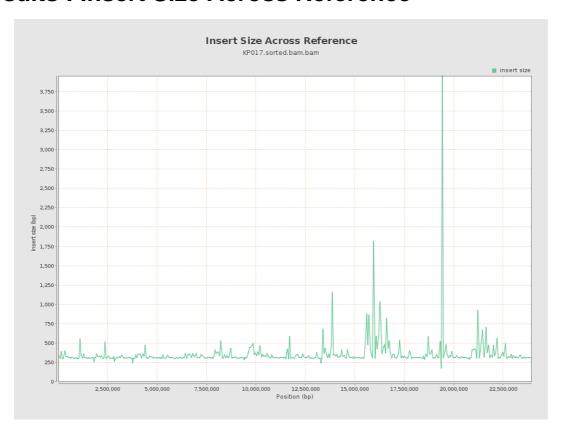


13. Results: Mapping Quality Histogram





14. Results: Insert Size Across Reference





15. Results: Insert Size Histogram

