Qualimap Analysis Results

BAM QC analysis Generated by Qualimap v.2.2.2-dev 2022/06/28 15:24:42



1. Input data & parameters (inside of regions)

1.1. QualiMap command line

qualimap bamqc -bam blem_22_final_aligned_gaiix_sorted.bam -gff ./Blastocladiella_emersonii_ATCC_22665.gtf -nw 400 -hm 3

1.2. Alignment

Command line:	bwa sampe
	Blastocladiella_emersonii_ATCC_22
	665.scaffolds.fa
	blem_22_final_vs_s_1_1.sai
	blem_22_final_vs_s_1_2.sai
	/sequencing/before_oxford/blastoclad
	iella/illumina_gaii/trimmed/s_1_1_trim
	med_paired.fastq.gz
	/sequencing/before_oxford/blastoclad
	iella/illumina_gaii/trimmed/s_1_2_trim
	med_paired.fastq.gz
Draw chromosome limits:	no
Analyze overlapping paired-end	no
reads:	
reads.	
Program:	bwa (0.7.17-r1188)
Analysis date:	Tue Jun 28 15:24:41 UTC 2022
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	blem_22_final_aligned_gaiix_sorted.
	bam

1.3. GFF region



Library protocol:	non-strand-specific	
Outside statistics:	no	
GFF file:	./Blastocladiella_emersonii_ATCC_2 2665.gtf	



2. Summary (inside of regions)

2.1. Globals

Reference size	32,654,225
Number of reads	34,499,850
Mapped reads	28,358,716 / 82.2%
Unmapped reads	6,141,134 / 17.8%
Mapped paired reads	28,358,716 / 82.2%
Mapped reads, first in pair	14,186,663 / 41.12%
Mapped reads, second in pair	14,172,053 / 41.08%
Mapped reads, both in pair	27,863,594 / 80.76%
Mapped reads, singletons	495,122 / 1.44%
Secondary alignments	0
Read min/max/mean length	40 / 66 / 63.35
Clipped reads	17,618 / 0.05%

2.2. Globals (inside of regions)

Regions size/percentage of reference	18,908,946 / 57.91%
Mapped reads	9,613,400 / 27.87%
[Mapped reduction of the control of	5,616,166 / 27.61/6
Mapped reads, only first in pair	4,803,574 / 13.92%
Mapped reads, only second in pair	4,809,826 / 13.94%
Mapped reads, both in pair	9,438,314 / 27.36%
Mapped reads, singletons	175,086 / 0.51%
Correct strand reads	0 / 0%
Clipped reads	17,618 / 0.05%



Duplicated reads (estimated)	3,521,055 / 36.63%	
Duplication rate	35.25%	

2.3. ACGT Content (inside of regions)

Number/percentage of A's	98,554,054 / 17.54%	
Number/percentage of C's	183,027,226 / 32.57%	
Number/percentage of T's	96,858,565 / 17.24%	
Number/percentage of G's	183,180,262 / 32.6%	
Number/percentage of N's	298,014 / 0.05%	
GC Percentage	65.17%	

2.4. Coverage (inside of regions)

Mean	29.7172
Standard Deviation	36.9466

2.5. Mapping Quality (inside of regions)

Mean Mapping Quality	50.7

2.6. Insert size (inside of regions)

Mean	4,122.3	
Standard Deviation	84,175.54	
P25/Median/P75	252 / 357 / 443	

2.7. Mismatches and indels (inside of regions)

General error rate	0.41%
Mismatches	2,297,110



	CENTRO DE INVESTIGACION
Insertions	1,814
Mapped reads with at least one insertion	0.01%
Deletions	3,131
Mapped reads with at least one deletion	0.01%
Homopolymer indels	27.44%

2.8. Chromosome stats (inside of regions)

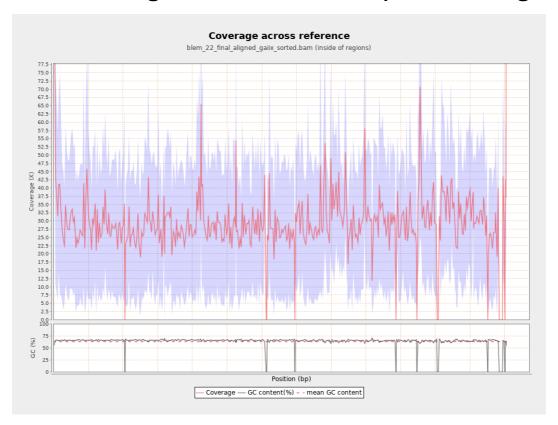
Name	Length	Mapped bases	Mean coverage	Standard deviation
c_be_22_1	3774054	112380408	29.7771	23.2257
c_be_22_2	1841349	50018361	27.164	19.8766
c_be_22_3	1766176	50482619	28.583	21.0823
c_be_22_4	1721370	49001364	28.4665	21.2131
c_be_22_5	1155248	32203810	27.8761	19.8743
c_be_22_6	1320572	35457015	26.8497	20.384
c_be_22_7	1210433	35361907	29.2143	22.0579
c_be_22_8	587084	20843910	35.5041	22.6403
c_be_22_9	904154	25927512	28.676	20.4053
c_be_22_10	981880	29498803	30.0432	21.772
c_be_22_11	822787	22795333	27.705	20.6409
c_be_22_12	677011	23836769	35.2088	26.1212
c_be_22_13	389119	13808098	35.4855	24.409
c_be_22_14	573396	17733381	30.9269	20.9947
c_be_22_15	544593	16693273	30.6527	21.8634



c_be_22_16	396747	10114695	25.4941	19.2275
c_be_22_17	109013	2741215	25.1458	20.3825
c_be_22_18	96249	3675496	38.1874	24.6907
c_be_22_20	8122	338245	41.6455	26.7146
c_be_22_22	25542	945251	37.0077	21.4277
c_be_22_26	4047	8063269	1,992.4065	550.6858

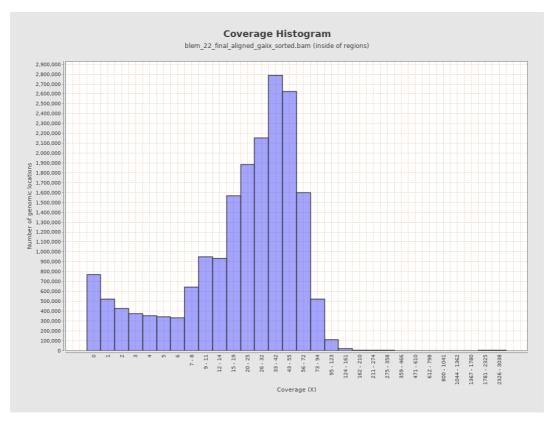


3. Results: Coverage across reference (inside of regions)



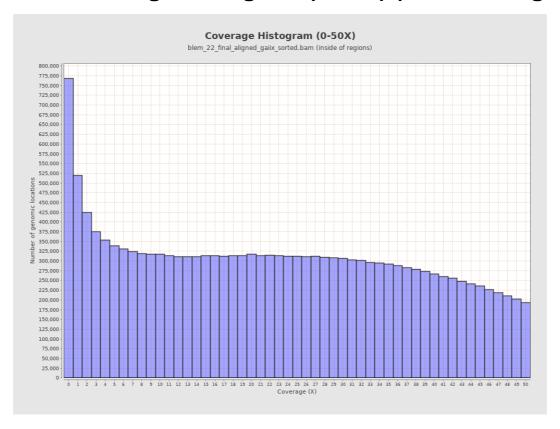


4. Results: Coverage Histogram (inside of regions)



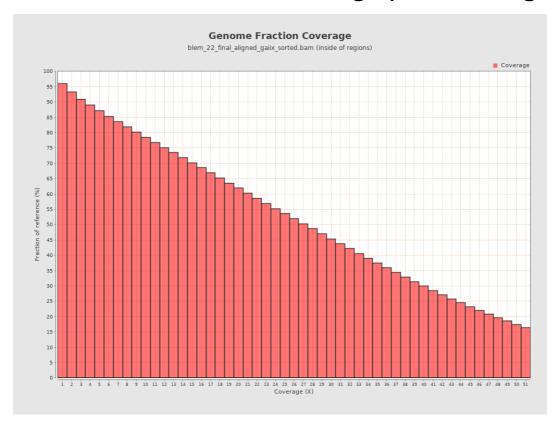


5. Results: Coverage Histogram (0-50X) (inside of regions)



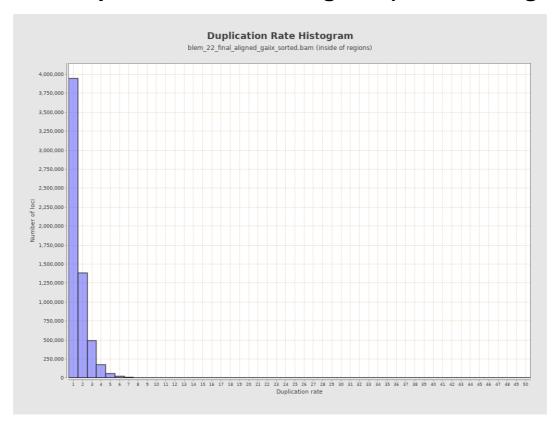


6. Results: Genome Fraction Coverage (inside of regions)



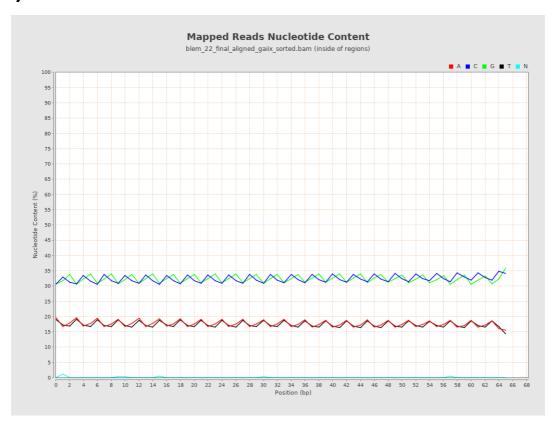


7. Results: Duplication Rate Histogram (inside of regions)



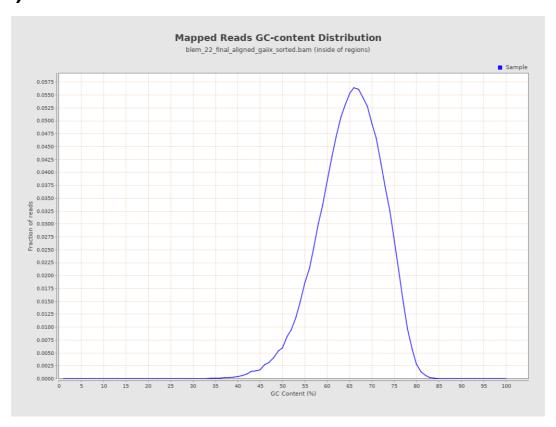


8. Results: Mapped Reads Nucleotide Content (inside of regions)



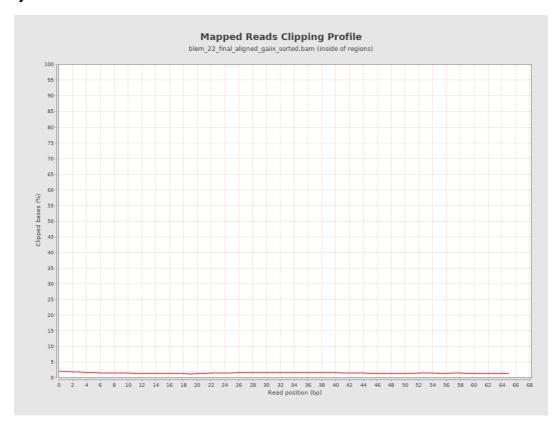


9. Results: Mapped Reads GC-content Distribution (inside of regions)



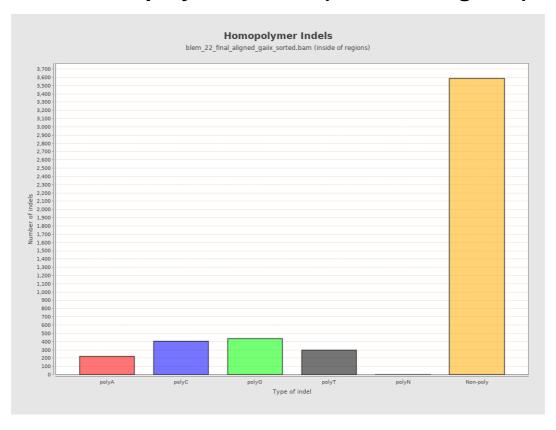


10. Results: Mapped Reads Clipping Profile (inside of regions)



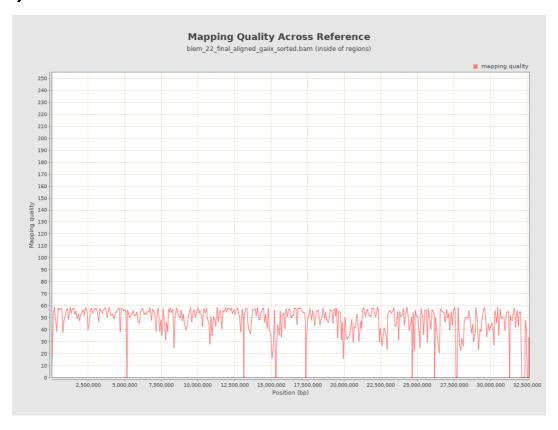


11. Results: Homopolymer Indels (inside of regions)



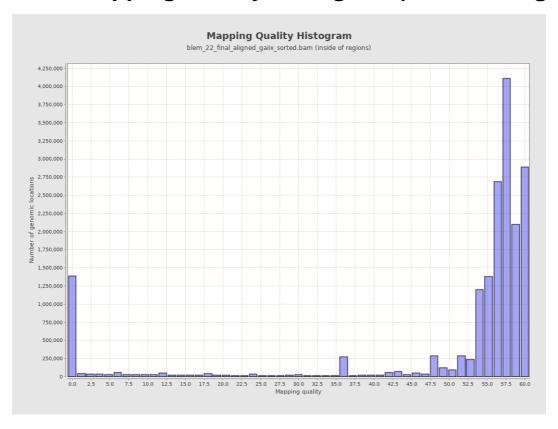


12. Results : Mapping Quality Across Reference (inside of regions)



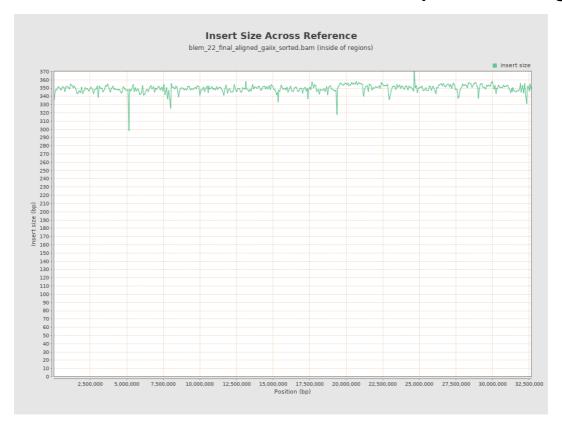


13. Results: Mapping Quality Histogram (inside of regions)





14. Results: Insert Size Across Reference (inside of regions)





15. Results: Insert Size Histogram (inside of regions)

