

Qualimap Report: BAM QC

Input data and parameters

QualiMap command line

```
qualimap bamqc -bam alineamiento.sorted.bam -nw 400 -hm 3
```

Alignment

Command line:	bwa mem ensamble/ancestral_assembly/scaffolds.fasta clean_fastp/evol2_R1.clean.fq clean_fastp/evol2_R2.clean.fq
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.19-r1273)
Analysis date:	Sun Sep 28 17:32:48 COT 2025
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	alineamiento.sorted.bam

CONTENTS

- Input data & parameters
- Summary
- Coverage across reference
- Coverage Histogram
- Coverage Histogram (0-50X)
- Genome Fraction Coverage
- Duplication Rate Histogram
- Mapped Reads Nucleotide Content
- Mapped Reads GC-content Distribution
- Mapped Reads Clipping Profile
- Homopolymer Indels
- Mapping Quality Across Reference
- Mapping Quality Histogram
- Insert Size Across Reference
- Insert Size Histogram

Summary

Globals

Reference size	4,542,330
Number of reads	1,351,692
Mapped reads	1,322,086 / 97.81%
Unmapped reads	29,606 / 2.19%
Mapped paired reads	1,322,086 / 97.81%
Mapped reads, first in pair	661,043 / 48.9%
Mapped reads, second in pair	661,043 / 48.9%
Mapped reads, both in pair	1,321,996 / 97.8%
Mapped reads, singletons	90 / 0.01%
Secondary alignments	0
Supplementary alignments	2,782 / 0.21%
Read min/max/mean length	30 / 130 / 127.42
Duplicated reads (estimated)	423,905 / 31.36%
Duplication rate	28.39%
Clipped reads	32,296 / 2.39%

ACGT Content

Number/percentage of A's	40,888,363 / 24.35%
Number/percentage of C's	43,135,926 / 25.69%
Number/percentage of T's	40,429,521 / 24.08%
Number/percentage of G's	43,453,143 / 25.88%
Number/percentage of N's	254 / 0%
GC Percentage	51.57%

Coverage

Mean	36.9667
Standard Deviation	23.1146

Mapping Quality

Mean Mapping Quality	52.6
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Insert size

Mean	210.39
Standard Deviation	87.18
P25/Median/P75	149 / 201 / 261

Mismatches and indels

General error rate	0.91%
Mismatches	1,523,035
Insertions	1,445
Mapped reads with at least one insertion	0.11%
Deletions	4,302
Mapped reads with at least one deletion	0.32%
Homopolymer indels	41.05%

Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
NODE_1_length_128095_cov_6.785184	128095	4855372	37.9045	10.9265
NODE_2_length_82803_cov_6.565415	82803	3177650	38.376	11.1208
NODE_3_length_67374_cov_6.990315	67374	2652669	39.3723	37.3588
NODE_4_length_64220_cov_6.902657	64220	2453939	38.2114	10.7411
NODE_5_length_62470_cov_6.652071	62470	2226876	35.6471	10.1565
NODE_6_length_57377_cov_6.450769	57377	2025582	35.303	10.0199
NODE_7_length_56148_cov_6.680905	56148	2146746	38.2337	10.4489
NODE_8_length_53129_cov_6.453913	53129	1927173	36.2735	11.2128

NODE_9_length_51339_cov_6.555690	51339	1729432	33.6865	10.4855
NODE_10_length_50148_cov_7.376619	50148	2101285	41.9017	73.1247
NODE_11_length_47541_cov_6.786885	47541	1856771	39.0562	11.4819
NODE_12_length_47476_cov_6.940659	47476	1724274	36.3189	11.1165
NODE_13_length_45748_cov_6.605476	45748	1705629	37.2831	11.2001
NODE_14_length_42164_cov_7.302857	42164	1714915	40.6725	10.5041
NODE_15_length_41859_cov_6.336164	41859	1345922	32.1537	10.5422
NODE_16_length_41246_cov_6.395062	41246	1461828	35.4417	9.9079
NODE_17_length_40621_cov_6.581571	40621	1590194	39.1471	10.1756
NODE_18_length_40269_cov_6.536604	40269	1338972	33.2507	9.9678
NODE_19_length_39449_cov_6.562116	39449	1449131	36.7343	11.1643
NODE_20_length_39197_cov_6.188391	39197	1358374	34.6551	9.6782
NODE_21_length_38592_cov_6.613385	38592	1526644	39.5586	11.2205
NODE_22_length_38180_cov_6.564275	38180	1333089	34.9159	10.5179
NODE_23_length_37841_cov_6.954480	37841	1485626	39.2597	11.1281
NODE_24_length_37771_cov_6.886706	37771	1481282	39.2174	10.9944
NODE_25_length_37158_cov_6.616446	37158	1218369	32.7889	12.3014
NODE_26_length_36717_cov_6.611587	36717	1375554	37.4637	11.3055
NODE_27_length_36553_cov_6.506329	36553	1305292	35.7096	9.0726
NODE_28_length_35580_cov_6.758874	35580	1371001	38.5329	9.7958
NODE_29_length_34669_cov_6.887300	34669	1301725	37.5472	10.6968
NODE_30_length_34487_cov_6.705071	34487	1282217	37.1797	10.6974
NODE_31_length_34460_cov_6.392559	34460	1201876	34.8774	10.9937
NODE_32_length_34252_cov_6.619031	34252	1230915	35.937	10.5723
NODE_33_length_33899_cov_6.657635	33899	1227752	36.2179	9.0854
NODE_34_length_33259_cov_6.758041	33259	1239927	37.2809	10.2649
NODE_35_length_32794_cov_6.925441	32794	1198625	36.5501	10.8413
NODE_36_length_31970_cov_8.003227	31970	1024765	32.054	11.3795
NODE_37_length_31817_cov_6.900573	31817	1249225	39.2628	11.5466
NODE_38_length_31339_cov_6.341421	31339	1137345	36.2917	11.3305
NODE_39_length_31057_cov_6.174247	31057	1069224	34.4278	9.8617
NODE_40_length_30974_cov_6.521621	30974	1262910	40.7732	10.3377
NODE_41_length_29817_cov_6.482562	29817	1131977	37.9641	10.4013
NODE_42_length_28637_cov_6.646596	28637	1027465	35.8789	12.2923
NODE_43_length_28112_cov_6.625548	28112	1062193	37.7843	9.2595
NODE_44_length_27652_cov_10.825597	27652	1620681	58.6099	62.8165
NODE_45_length_27569_cov_6.860253	27569	1099764	39.8913	11.339

NODE_46_length_27559_cov_6.394743	27559	892784	32.3954	10.3538
NODE_47_length_26904_cov_6.043279	26904	993071	36.9116	10.3409
NODE_48_length_26757_cov_6.483185	26757	860909	32.1751	10.6141
NODE_49_length_26652_cov_6.760650	26652	1045885	39.2423	10.4878
NODE_50_length_26509_cov_7.336395	26509	1063608	40.1225	9.9732
NODE_51_length_26442_cov_6.749574	26442	1000773	37.8479	10.8856
NODE_52_length_26372_cov_6.291409	26372	929217	35.235	10.6969
NODE_53_length_26281_cov_6.861283	26281	934558	35.5602	9.9712
NODE_54_length_25123_cov_6.655337	25123	964753	38.4012	11.8731
NODE_55_length_24740_cov_6.993437	24740	874874	35.3627	12.0469
NODE_56_length_23978_cov_6.469757	23978	894130	37.2896	11.355
NODE_57_length_23772_cov_6.394443	23772	866823	36.464	12.7013
NODE_58_length_23694_cov_6.439824	23694	821953	34.6903	10.3316
NODE_59_length_22748_cov_6.321024	22748	856211	37.639	12.3805
NODE_60_length_22139_cov_6.760324	22139	855159	38.6268	10.5011
NODE_61_length_21807_cov_7.152492	21807	846864	38.8345	12.7289
NODE_62_length_21246_cov_6.347506	21246	750774	35.3372	10.4485
NODE_63_length_21017_cov_6.696069	21017	726456	34.5652	13.6127
NODE_64_length_20743_cov_7.134957	20743	782962	37.7458	12.3584
NODE_65_length_20727_cov_6.587558	20727	802450	38.7152	10.9105
NODE_66_length_20091_cov_6.478838	20091	778476	38.7475	12.2856
NODE_67_length_19289_cov_6.788032	19289	668027	34.6325	13.8593
NODE_68_length_19139_cov_6.715364	19139	668983	34.9539	10.6235
NODE_69_length_19032_cov_6.474733	19032	639382	33.5951	10.3084
NODE_70_length_18897_cov_6.684163	18897	646424	34.2078	9.5634
NODE_71_length_18650_cov_7.063243	18650	680555	36.4909	11.0646
NODE_72_length_18603_cov_6.917457	18603	721791	38.7997	9.084
NODE_73_length_18577_cov_7.166019	18577	658015	35.421	11.0229
NODE_74_length_18393_cov_6.084033	18393	598861	32.5592	10.9045
NODE_75_length_18342_cov_6.023951	18342	662418	36.1148	9.3594
NODE_76_length_18219_cov_6.538373	18219	638868	35.066	12.4515
NODE_77_length_18195_cov_6.592503	18195	640331	35.1927	11.6961
NODE_78_length_18022_cov_7.746146	18022	615724	34.1651	9.8067
NODE_79_length_17913_cov_6.040710	17913	679813	37.9508	11.0883
NODE_80_length_17900_cov_6.413505	17900	579889	32.396	9.5375
NODE_81_length_17457_cov_7.285427	17457	704237	40.3412	10.303
NODE_82_length_16990_cov_6.549099	16990	671711	39.5357	11.0578

NODE_83_length_16905_cov_6.053769	16905	605044	35.7908	10.8145
NODE_84_length_16593_cov_6.576611	16593	614490	37.0331	11.9
NODE_85_length_16491_cov_6.428997	16491	577287	35.0062	11.161
NODE_86_length_16420_cov_6.759548	16420	560502	34.1353	9.1149
NODE_87_length_16202_cov_6.665449	16202	613154	37.8443	11.4338
NODE_88_length_16111_cov_7.069756	16111	508578	31.5671	9.8268
NODE_89_length_15876_cov_6.341382	15876	552303	34.7885	10.5584
NODE_90_length_15540_cov_7.766032	15540	557177	35.8544	11.1909
NODE_91_length_15214_cov_6.587836	15214	576912	37.9198	11.4922
NODE_92_length_14873_cov_7.090566	14873	545772	36.6955	11.1487
NODE_93_length_14803_cov_6.983116	14803	581670	39.2941	10.9612
NODE_94_length_14785_cov_6.378140	14785	552743	37.3854	10.5813
NODE_95_length_14769_cov_6.527117	14769	549920	37.2347	11.6614
NODE_96_length_14488_cov_6.429155	14488	538024	37.1358	9.5699
NODE_97_length_14406_cov_7.541495	14406	534561	37.1068	11.531
NODE_98_length_14156_cov_6.223459	14156	507069	35.8201	9.7387
NODE_99_length_14122_cov_6.741167	14122	534227	37.8294	18.7582
NODE_100_length_14104_cov_6.241298	14104	482564	34.2147	10.5422
NODE_101_length_14024_cov_6.575775	14024	480454	34.2594	8.8385
NODE_102_length_13760_cov_6.919081	13760	484564	35.2154	10.6411
NODE_103_length_13755_cov_6.425474	13755	526411	38.2705	11.0364
NODE_104_length_13709_cov_6.954446	13709	519057	37.8625	10.0292
NODE_105_length_13692_cov_6.751218	13692	459618	33.5684	10.1645
NODE_106_length_13612_cov_6.425242	13612	479214	35.2053	11.0824
NODE_107_length_13357_cov_5.791836	13357	454428	34.0217	12.3456
NODE_108_length_13246_cov_6.092032	13246	513733	38.784	10.434
NODE_109_length_13239_cov_6.749697	13239	450747	34.0469	9.5126
NODE_110_length_13191_cov_6.710947	13191	487583	36.9633	10.3189
NODE_111_length_13151_cov_6.361255	13151	486847	37.0198	9.8142
NODE_112_length_13136_cov_6.322300	13136	497821	37.8975	11.3744
NODE_113_length_13128_cov_6.885336	13128	514537	39.1939	12.0744
NODE_114_length_13044_cov_6.074833	13044	490995	37.6414	10.5402
NODE_115_length_13019_cov_6.245526	13019	442448	33.9848	12.3133
NODE_116_length_12977_cov_6.456121	12977	486781	37.5111	12.1402
NODE_117_length_12875_cov_6.651638	12875	474650	36.866	9.6765
NODE_118_length_12853_cov_6.005470	12853	438367	34.1062	10.4457
NODE_119_length_12837_cov_6.722735	12837	449791	35.0386	11.2671

NODE_120_length_12700_cov_6.565362	12700	525900	41.4094	11.9015
NODE_121_length_12379_cov_6.916423	12379	446192	36.0443	11.4494
NODE_122_length_12264_cov_6.544353	12264	473080	38.5747	12.1309
NODE_123_length_12165_cov_7.156647	12165	420438	34.5613	10.7126
NODE_124_length_12082_cov_7.223580	12082	518620	42.925	12.3513
NODE_125_length_12074_cov_6.009069	12074	424132	35.1277	10.0297
NODE_126_length_12062_cov_6.368452	12062	426364	35.3477	9.3948
NODE_127_length_11941_cov_6.979303	11941	426993	35.7586	10.5232
NODE_128_length_11918_cov_6.268988	11918	409850	34.3892	11.4852
NODE_129_length_11753_cov_6.515387	11753	465402	39.5986	10.4558
NODE_130_length_11691_cov_6.022173	11691	430176	36.7955	10.5517
NODE_131_length_11624_cov_6.500562	11624	418552	36.0076	10.8804
NODE_132_length_11431_cov_6.976705	11431	423530	37.051	10.3217
NODE_133_length_11380_cov_6.774393	11380	445565	39.1533	10.6002
NODE_134_length_11314_cov_6.072298	11314	372986	32.9668	10.1753
NODE_135_length_11122_cov_7.149273	11122	393400	35.3713	10.4218
NODE_136_length_11082_cov_5.591185	11082	392597	35.4265	9.583
NODE_137_length_11057_cov_6.201963	11057	380513	34.4138	9.3073
NODE_138_length_10940_cov_6.081029	10940	402791	36.8182	10.8463
NODE_139_length_10903_cov_6.430310	10903	319908	29.3413	9.4701
NODE_140_length_10885_cov_6.597045	10885	385514	35.417	8.5668
NODE_141_length_10884_cov_6.260689	10884	318712	29.2826	11.7382
NODE_142_length_10753_cov_6.053655	10753	379650	35.3064	11.9053
NODE_143_length_10401_cov_6.390682	10401	629099	60.4845	22.8958
NODE_144_length_10374_cov_6.277449	10374	374347	36.0851	9.9795
NODE_145_length_10208_cov_6.641190	10208	395367	38.7311	11.6879
NODE_146_length_10160_cov_6.476200	10160	393543	38.7345	12.2395
NODE_147_length_10158_cov_6.608136	10158	382140	37.6196	11.7918
NODE_148_length_10090_cov_7.159542	10090	383503	38.0082	10.3979
NODE_149_length_10083_cov_6.109194	10083	372148	36.9085	9.813
NODE_150_length_10021_cov_6.794501	10021	380375	37.9578	11.333
NODE_151_length_9943_cov_6.665251	9943	371353	37.3482	11.9545
NODE_152_length_9909_cov_6.041100	9909	390093	39.3675	10.2399
NODE_153_length_9804_cov_6.671248	9804	372829	38.0283	10.7857
NODE_154_length_9688_cov_7.212187	9688	365986	37.7773	11.9842
NODE_155_length_9687_cov_6.106935	9687	351365	36.2718	12.574
NODE_156_length_9595_cov_6.957128	9595	382393	39.8534	12.5562

NODE_157_length_9595_cov_6.312055	9595	317548	33.0952	16.0463
NODE_158_length_9486_cov_7.761107	9486	371612	39.1748	10.4093
NODE_159_length_9419_cov_6.681867	9419	331807	35.2274	11.2319
NODE_160_length_9378_cov_7.027888	9378	319676	34.0879	12.4379
NODE_161_length_9357_cov_6.134595	9357	337413	36.06	10.1816
NODE_162_length_9254_cov_7.240461	9254	337554	36.4766	9.2666
NODE_163_length_9148_cov_6.411855	9148	346561	37.8838	13.3873
NODE_164_length_9036_cov_5.761496	9036	291819	32.2952	10.9583
NODE_165_length_8923_cov_6.572234	8923	312915	35.0684	8.7423
NODE_166_length_8921_cov_6.142793	8921	290054	32.5136	9.436
NODE_167_length_8835_cov_5.750228	8835	325948	36.8928	12.3431
NODE_168_length_8803_cov_6.598080	8803	286210	32.5128	12.5069
NODE_169_length_8762_cov_7.217526	8762	346213	39.513	10.9587
NODE_170_length_8734_cov_6.158313	8734	375426	42.9844	9.9586
NODE_171_length_8598_cov_7.627297	8598	555008	64.5508	151.7399
NODE_172_length_8425_cov_6.106332	8425	282823	33.5695	10.599
NODE_173_length_8314_cov_7.127618	8314	309103	37.1786	12.9878
NODE_174_length_8147_cov_6.582180	8147	247434	30.3712	12.3503
NODE_175_length_8035_cov_6.681955	8035	312339	38.8723	11.903
NODE_176_length_7989_cov_6.163474	7989	300164	37.5722	13.2643
NODE_177_length_7943_cov_5.998605	7943	257318	32.3956	12.0815
NODE_178_length_7898_cov_6.319521	7898	277783	35.1713	11.6411
NODE_179_length_7896_cov_7.494197	7896	256521	32.4875	9.8381
NODE_180_length_7756_cov_5.656019	7756	269178	34.7058	9.6825
NODE_181_length_7720_cov_6.688715	7720	268348	34.7601	10.2581
NODE_182_length_7675_cov_7.083596	7675	282424	36.7979	10.425
NODE_183_length_7555_cov_5.330667	7555	244898	32.4154	12.9236
NODE_184_length_7469_cov_6.961964	7469	253985	34.0052	9.7172
NODE_185_length_7458_cov_6.454951	7458	280772	37.6471	9.6402
NODE_186_length_7422_cov_6.788109	7422	248304	33.4551	10.1825
NODE_187_length_7381_cov_6.105242	7381	247547	33.5384	11.5581
NODE_188_length_7334_cov_6.237533	7334	237248	32.3491	14.7422
NODE_189_length_7296_cov_6.811214	7296	5717	0.7836	3.6349
NODE_190_length_7177_cov_6.678321	7177	255072	35.5402	10.4779
NODE_191_length_7142_cov_7.155496	7142	557766	78.0966	16.1284
NODE_192_length_7107_cov_7.622235	7107	412868	58.0931	27.0433
NODE_193_length_6975_cov_6.909249	6975	272255	39.033	8.3181

NODE_194_length_6858_cov_6.137439	6858	265082	38.653	9.7578
NODE_195_length_6771_cov_5.588892	6771	246011	36.333	12.269
NODE_196_length_6748_cov_6.346033	6748	250758	37.1603	8.9331
NODE_197_length_6722_cov_5.153442	6722	237545	35.3384	11.6472
NODE_198_length_6679_cov_6.203955	6679	258820	38.7513	12.3027
NODE_199_length_6667_cov_6.564277	6667	181539	27.2295	14.8001
NODE_200_length_6649_cov_7.459812	6649	236827	35.6184	10.688
NODE_201_length_6613_cov_7.254346	6613	260802	39.4378	14.4571
NODE_202_length_6553_cov_7.187135	6553	253392	38.6681	11.8625
NODE_203_length_6536_cov_6.179911	6536	200369	30.6562	14.4736
NODE_204_length_6465_cov_7.045242	6465	262766	40.6444	8.9027
NODE_205_length_6400_cov_6.742632	6400	235866	36.8541	10.5704
NODE_206_length_6386_cov_6.028432	6386	227054	35.555	11.0886
NODE_207_length_6301_cov_6.661063	6301	229882	36.4834	11.8317
NODE_208_length_6293_cov_6.326868	6293	190300	30.2399	11.4799
NODE_209_length_6284_cov_6.289934	6284	199798	31.7947	7.9079
NODE_210_length_6165_cov_6.291162	6165	245360	39.7989	11.5645
NODE_211_length_6159_cov_9.525229	6159	463671	75.2835	146.6743
NODE_212_length_6133_cov_6.379730	6133	206861	33.7292	10.1411
NODE_213_length_6078_cov_6.039681	6078	212960	35.0378	12.476
NODE_214_length_6009_cov_6.648975	6009	231973	38.6043	11.051
NODE_215_length_5932_cov_5.672112	5932	221516	37.3425	13.3361
NODE_216_length_5874_cov_6.323767	5874	241093	41.0441	12.2258
NODE_217_length_5855_cov_6.883276	5855	214551	36.6441	10.1176
NODE_218_length_5718_cov_6.152040	5718	170608	29.837	11.6802
NODE_219_length_5682_cov_7.177537	5682	197792	34.8103	13.6648
NODE_220_length_5598_cov_6.038066	5598	164037	29.3028	11.5901
NODE_221_length_5502_cov_5.499174	5502	219880	39.9636	9.3692
NODE_222_length_5469_cov_5.423347	5469	188314	34.433	8.0348
NODE_223_length_5346_cov_5.627481	5346	157139	29.3938	10.2188
NODE_224_length_5300_cov_7.339180	5300	177502	33.4909	10.5278
NODE_225_length_5267_cov_5.527245	5267	142217	27.0015	12.5765
NODE_226_length_5217_cov_5.393065	5217	195732	37.5181	12.9403
NODE_227_length_5203_cov_5.933955	5203	184230	35.4084	11.5882
NODE_228_length_4926_cov_6.994046	4926	181232	36.7909	10.9153
NODE_229_length_4720_cov_6.840729	4720	163003	34.5345	11.9966
NODE_230_length_4702_cov_6.786529	4702	148178	31.5138	12.2266

NODE_231_length_4700_cov_7.118622	4700	172357	36.6717	12.5171
NODE_232_length_4593_cov_6.044513	4593	163420	35.5802	9.5542
NODE_233_length_4572_cov_5.734337	4572	177108	38.7375	11.4627
NODE_234_length_4558_cov_7.129691	4558	138991	30.4939	10.2248
NODE_235_length_4542_cov_5.179853	4542	139290	30.6671	11.0337
NODE_236_length_4505_cov_7.164045	4505	166391	36.9347	10.657
NODE_237_length_4463_cov_5.786298	4463	128077	28.6975	9.2599
NODE_238_length_4453_cov_7.615962	4453	191660	43.0406	56.0898
NODE_239_length_4447_cov_6.114299	4447	179449	40.3528	12.7242
NODE_240_length_4426_cov_10.998399	4426	321125	72.5542	32.3794
NODE_241_length_4404_cov_6.086457	4404	150217	34.1092	19.7035
NODE_242_length_4388_cov_6.789061	4388	150195	34.2286	11.9151
NODE_243_length_4360_cov_6.666202	4360	141289	32.4057	12.2041
NODE_244_length_4321_cov_7.052274	4321	167115	38.6751	13.8345
NODE_245_length_4269_cov_5.857143	4269	140735	32.9667	13.3561
NODE_246_length_4254_cov_7.927840	4254	160735	37.7844	9.5629
NODE_247_length_4238_cov_7.502271	4238	124088	29.2798	14.6161
NODE_248_length_4232_cov_6.754369	4232	166989	39.4586	17.5529
NODE_249_length_4191_cov_6.534091	4191	125073	29.8432	9.3284
NODE_250_length_3989_cov_7.109812	3989	124696	31.26	10.7384
NODE_251_length_3987_cov_6.222279	3987	155090	38.8989	11.2877
NODE_252_length_3918_cov_6.998188	3918	128874	32.8928	9.1928
NODE_253_length_3914_cov_7.053382	3914	151849	38.7964	7.9275
NODE_254_length_3889_cov_7.051904	3889	136749	35.163	12.4413
NODE_255_length_3840_cov_6.864201	3840	138129	35.9711	13.3702
NODE_256_length_3718_cov_5.793612	3718	137969	37.1084	13.9196
NODE_257_length_3612_cov_6.984256	3612	129722	35.9142	11.0019
NODE_258_length_3459_cov_6.787897	3459	116762	33.756	12.2325
NODE_259_length_3454_cov_7.741689	3454	116570	33.7493	14.8906
NODE_260_length_3445_cov_5.969027	3445	115252	33.4549	9.9849
NODE_261_length_3436_cov_6.466726	3436	117678	34.2485	14.563
NODE_262_length_3417_cov_5.727246	3417	120322	35.2128	12.2402
NODE_263_length_3391_cov_6.460132	3391	138193	40.7529	14.6826
NODE_264_length_3221_cov_5.989893	3221	97066	30.1354	11.4236
NODE_265_length_3197_cov_5.321451	3197	108887	34.0591	15.3218
NODE_266_length_3165_cov_5.041158	3165	86143	27.2174	11.1324
NODE_267_length_2986_cov_5.404640	2986	82962	27.7837	8.4595

NODE_268_length_2892_cov_6.400070	2892	95457	33.0073	8.4368
NODE_269_length_2874_cov_5.641717	2874	96924	33.7244	12.0427
NODE_270_length_2840_cov_6.217235	2840	96291	33.9053	9.8805
NODE_271_length_2824_cov_5.682196	2824	87808	31.0935	10.4414
NODE_272_length_2824_cov_5.415312	2824	96694	34.2401	13.6395
NODE_273_length_2815_cov_6.638043	2815	68230	24.238	13.2256
NODE_274_length_2803_cov_6.133916	2803	92481	32.9936	8.5193
NODE_275_length_2801_cov_5.910051	2801	61995	22.1332	11.0722
NODE_276_length_2799_cov_5.498178	2799	103330	36.9168	9.989
NODE_277_length_2763_cov_7.701994	2763	91950	33.279	9.2477
NODE_278_length_2752_cov_7.131999	2752	86509	31.435	9.9381
NODE_279_length_2719_cov_7.465090	2719	92751	34.1122	9.4456
NODE_280_length_2621_cov_4.977007	2621	40671	15.5174	15.5556
NODE_281_length_2605_cov_6.713725	2605	89053	34.1854	12.1844
NODE_282_length_2600_cov_7.387819	2600	74258	28.5608	13.3284
NODE_283_length_2423_cov_6.507601	2423	88192	36.3979	11.167
NODE_284_length_2411_cov_4.927844	2411	89145	36.9743	9.8755
NODE_285_length_2408_cov_6.631534	2408	48146	19.9942	13.3589
NODE_286_length_2401_cov_6.257033	2401	64037	26.671	13.664
NODE_287_length_2311_cov_7.305408	2311	71972	31.1432	10.2046
NODE_288_length_2299_cov_7.794118	2299	76252	33.1675	12.8795
NODE_289_length_2285_cov_4.230493	2285	33349	14.5947	9.801
NODE_290_length_2250_cov_6.409112	2250	86820	38.5867	10.9138
NODE_291_length_2225_cov_6.890323	2225	69215	31.1079	10.3756
NODE_292_length_2201_cov_5.739981	2201	72623	32.9955	13.7159
NODE_293_length_2152_cov_6.685742	2152	53243	24.7412	12.7555
NODE_294_length_2090_cov_5.674693	2090	57030	27.2871	12.435
NODE_295_length_2081_cov_4.181145	2081	26807	12.8818	11.3027
NODE_296_length_2058_cov_6.223665	2058	70172	34.0972	9.9123
NODE_297_length_2016_cov_5.934217	2016	40943	20.309	14.1255
NODE_298_length_1962_cov_6.682223	1962	69064	35.2008	16.446
NODE_299_length_1961_cov_5.969045	1961	66499	33.9108	11.9027
NODE_300_length_1849_cov_7.397993	1849	53243	28.7956	11.7772
NODE_301_length_1792_cov_4.773172	1792	32561	18.1702	12.6895
NODE_302_length_1745_cov_4.195266	1745	24337	13.9467	10.2866
NODE_303_length_1738_cov_6.494355	1738	52821	30.3918	13.2857
NODE_304_length_1733_cov_6.300358	1733	59244	34.1858	15.56

NODE_305_length_1701_cov_7.597813	1701	48799	28.6884	10.4117
NODE_306_length_1692_cov_7.228467	1692	67072	39.6407	30.4179
NODE_307_length_1660_cov_6.632399	1660	56899	34.2765	12.315
NODE_308_length_1659_cov_5.844763	1659	52655	31.739	16.7002
NODE_309_length_1639_cov_5.011995	1639	44625	27.227	16.1674
NODE_310_length_1636_cov_4.981657	1636	36876	22.5403	11.5865
NODE_311_length_1619_cov_5.331841	1619	44509	27.4917	13.0805
NODE_312_length_1524_cov_6.925119	1524	64984	42.6404	14.0619
NODE_313_length_1515_cov_7.513699	1515	61812	40.8	14.1628
NODE_314_length_1458_cov_5.365645	1458	20546	14.0919	9.3412
NODE_315_length_1411_cov_5.904867	1411	39578	28.0496	9.95
NODE_316_length_1401_cov_5.419019	1401	33109	23.6324	25.8254
NODE_317_length_1343_cov_28.016304	1343	251060	186.9397	68.1609
NODE_318_length_1330_cov_6.074510	1330	38965	29.297	13.2253
NODE_319_length_1317_cov_15.332805	1317	91632	69.5763	16.7159
NODE_320_length_1316_cov_8.438541	1316	43704	33.2097	8.4108
NODE_321_length_1267_cov_7.046205	1267	48581	38.3433	9.3672
NODE_322_length_1264_cov_5.028122	1264	27458	21.7231	5.8191
NODE_323_length_1242_cov_6.393429	1242	41234	33.1997	15.3077
NODE_324_length_1234_cov_6.662426	1234	34725	28.1402	9.3743
NODE_325_length_1220_cov_5.731330	1220	40379	33.0975	11.5166
NODE_326_length_1202_cov_31.651264	1202	371769	309.292	77.9972
NODE_327_length_1202_cov_6.162162	1202	41923	34.8777	14.8574
NODE_328_length_1184_cov_6.378211	1184	30518	25.7753	10
NODE_329_length_1126_cov_5.515406	1126	34423	30.571	19.205
NODE_330_length_1120_cov_6.895775	1120	19607	17.5063	12.9313
NODE_331_length_1061_cov_52.165010	1061	819252	772.1508	139.9108
NODE_332_length_1058_cov_6.152542	1058	34881	32.9688	11.8751
NODE_333_length_1049_cov_5.069416	1049	28610	27.2736	11.7593
NODE_334_length_1028_cov_6.548818	1028	22041	21.4407	11.5252
NODE_335_length_1017_cov_6.663202	1017	22602	22.2242	11.5191
NODE_336_length_1005_cov_6.855789	1005	23843	23.7244	11.8381
NODE_337_length_997_cov_4.842887	997	15443	15.4895	6.6153
NODE_338_length_988_cov_5.786710	988	22456	22.7287	14.5724
NODE_339_length_980_cov_6.978378	980	23254	23.7286	16.6427
NODE_340_length_969_cov_5.641138	969	32355	33.3901	14.7949
NODE_341_length_959_cov_5.765487	959	29053	30.2951	10.9945

NODE_342_length_955_cov_7.021111	955	28096	29.4199	11.2358
NODE_343_length_946_cov_7.351291	946	18415	19.4662	8.9654
NODE_344_length_941_cov_3.143341	941	12513	13.2976	7.8513
NODE_345_length_933_cov_3.996583	933	21849	23.418	15.5286
NODE_346_length_927_cov_8.569954	927	29123	31.4164	8.435
NODE_347_length_908_cov_5.065651	908	14738	16.2313	8.9656
NODE_348_length_893_cov_3.436754	893	6008	6.7279	3.2932
NODE_349_length_888_cov_4.866747	888	8023	9.0349	4.7791
NODE_350_length_870_cov_6.392638	870	27008	31.0437	10.8409
NODE_351_length_831_cov_7.960052	831	31483	37.8857	20.254
NODE_352_length_831_cov_5.025773	831	23861	28.7136	8.9927
NODE_353_length_825_cov_6.254545	825	29890	36.2303	6.8971
NODE_354_length_824_cov_6.001300	824	23542	28.5704	14.7185
NODE_355_length_822_cov_4.878748	822	17220	20.9489	15.1413
NODE_356_length_819_cov_5.837696	819	20922	25.5458	9.1888
NODE_357_length_804_cov_8.275033	804	32923	40.949	22.1761
NODE_358_length_794_cov_5.059540	794	24263	30.5579	11.6761
NODE_359_length_792_cov_4.974220	792	23940	30.2273	11.9909
NODE_360_length_791_cov_53.259511	791	206207	260.6915	45.9499
NODE_361_length_777_cov_8.457064	777	31079	39.9987	23.8703
NODE_362_length_752_cov_8.124821	752	34215	45.4987	21.105
NODE_363_length_711_cov_32.515244	711	111505	156.8284	59.1427
NODE_364_length_688_cov_21.399684	688	78824	114.5698	64.9183
NODE_365_length_674_cov_3.602585	674	7710	11.4392	6.4516
NODE_366_length_650_cov_4.996639	650	23538	36.2123	14.3856
NODE_367_length_648_cov_2.888702	648	4377	6.7546	3.0747
NODE_368_length_620_cov_3.380531	620	18800	30.3226	13.1681
NODE_369_length_606_cov_6.442831	606	24246	40.0099	20.3607
NODE_370_length_598_cov_4.885820	598	11280	18.8629	6.8978
NODE_371_length_566_cov_4.964775	566	31125	54.9912	16.6451
NODE_372_length_566_cov_3.765166	566	16717	29.5353	4.9786
NODE_373_length_556_cov_14.500998	556	46358	83.3777	29.7644
NODE_374_length_548_cov_56.308316	548	148479	270.9471	83.3372
NODE_375_length_534_cov_4.202505	534	4622	8.6554	7.6539
NODE_376_length_528_cov_5.306554	528	12965	24.5549	17.5279
NODE_377_length_526_cov_12.169851	526	40308	76.6312	21.4134
NODE_378_length_515_cov_36.428261	515	111417	216.3437	114.9624

NODE_379_length_501_cov_3.966368	501	9084	18.1317	10.3732
NODE_380_length_482_cov_3.690867	482	7935	16.4627	9.699
NODE_381_length_477_cov_5.829384	477	19935	41.7925	7.8244
NODE_382_length_469_cov_4.673913	469	5946	12.678	7.6021
NODE_383_length_468_cov_4.389831	468	10541	22.5235	9.9973
NODE_384_length_461_cov_7.596059	461	12116	26.282	8.0902
NODE_385_length_442_cov_5.666667	442	6820	15.4299	7.5726
NODE_386_length_428_cov_7.512064	428	13146	30.715	11.485
NODE_387_length_422_cov_12.275204	422	14272	33.8199	16.4253
NODE_388_length_419_cov_5.151099	419	7613	18.1695	10.957
NODE_389_length_399_cov_2.956395	399	2222	5.5689	3.1654
NODE_390_length_393_cov_11.840237	393	25799	65.6463	13.5989
NODE_391_length_392_cov_6.065282	392	12701	32.4005	12.1311
NODE_392_length_389_cov_3.356287	389	2792	7.1774	3.1998
NODE_393_length_382_cov_5.311927	382	4092	10.712	8.1876
NODE_394_length_372_cov_1.876972	372	1843	4.9543	2.7777
NODE_395_length_363_cov_4.535714	363	12301	33.8871	10.4592
NODE_396_length_352_cov_7.141414	352	16364	46.4886	12.5052
NODE_397_length_348_cov_9.361775	348	23808	68.4138	19.3363
NODE_398_length_341_cov_2.258741	341	2951	8.654	3.1997
NODE_399_length_337_cov_6.549645	337	7235	21.4688	9.489
NODE_400_length_330_cov_4.803636	330	4816	14.5939	4.453
NODE_401_length_325_cov_9.925926	325	12143	37.3631	38.7683
NODE_402_length_318_cov_5.159696	318	5862	18.434	11.4858
NODE_403_length_300_cov_5.620408	300	1664	5.5467	3.8533
NODE_404_length_293_cov_4.810924	293	7265	24.7952	15.6796
NODE_405_length_292_cov_26.755274	292	40012	137.0274	46.1439
NODE_406_length_288_cov_17.858369	288	24113	83.7257	43.197
NODE_407_length_279_cov_20.647321	279	32041	114.8423	31.2846
NODE_408_length_277_cov_2.328829	277	1298	4.6859	1.8806
NODE_409_length_268_cov_6.549296	268	15070	56.2313	18.6783
NODE_410_length_264_cov_3.306220	264	2019	7.6477	4.6962
NODE_411_length_263_cov_19.615385	263	21979	83.5703	33.7668
NODE_412_length_263_cov_2.759615	263	2439	9.2738	4.3402
NODE_413_length_255_cov_4.415000	255	7726	30.298	10.1929
NODE_414_length_254_cov_7.130653	254	5228	20.5827	5.92
NODE_415_length_253_cov_4.989899	253	2021	7.9881	2.7201

NODE_416_length_244_cov_9.544974	244	10256	42.0328	9.7459
NODE_417_length_244_cov_1.576720	244	42	0.1721	0.3775
NODE_418_length_243_cov_4.765957	243	7329	30.1605	11.4149
NODE_419_length_241_cov_5.784946	241	6182	25.6515	8.6573
NODE_420_length_236_cov_7.535912	236	4884	20.6949	7.3859
NODE_421_length_233_cov_7.095506	233	8088	34.7124	13.7172
NODE_422_length_232_cov_1.265537	232	840	3.6207	2.8757
NODE_423_length_225_cov_22.664706	225	27840	123.7333	50.6433
NODE_424_length_224_cov_4.840237	224	11192	49.9643	13.0671
NODE_425_length_218_cov_8.331288	218	1704	7.8165	4.5295
NODE_426_length_218_cov_4.539877	218	5572	25.5596	9.2948
NODE_427_length_215_cov_2.968750	215	473	2.2	1.7946
NODE_428_length_214_cov_3.842767	214	6303	29.4533	6.0739
NODE_429_length_211_cov_5.602564	211	3522	16.6919	9.804
NODE_430_length_209_cov_6.071429	209	4559	21.8134	7.7539
NODE_431_length_206_cov_6.066225	206	3521	17.0922	6.4361
NODE_432_length_202_cov_6.306122	202	9194	45.5149	18.3821
NODE_433_length_201_cov_3.534247	201	4701	23.3881	8.9642
NODE_434_length_200_cov_15.317241	200	11196	55.98	20.232
NODE_435_length_197_cov_7.345070	197	8081	41.0203	14.6537
NODE_436_length_192_cov_7.343066	192	6272	32.6667	14.5464
NODE_437_length_192_cov_6.262774	192	3120	16.25	5.778
NODE_438_length_190_cov_10.281481	190	7891	41.5316	17.6037
NODE_439_length_188_cov_4.654135	188	1505	8.0053	2.6837
NODE_440_length_178_cov_6.276423	178	475	2.6685	1.7728
NODE_441_length_173_cov_10.288136	173	4270	24.6821	8.1338
NODE_442_length_173_cov_9.355932	173	1476	8.5318	3.1706
NODE_443_length_172_cov_4.008547	172	4549	26.4477	6.5745
NODE_444_length_171_cov_11.706897	171	1775	10.3801	4.2867
NODE_445_length_170_cov_9.452174	170	5718	33.6353	10.7362
NODE_446_length_169_cov_7.298246	169	2769	16.3846	6.2198
NODE_447_length_169_cov_4.868421	169	5231	30.9527	7.8052
NODE_448_length_169_cov_4.833333	169	4441	26.2781	9.4133
NODE_449_length_168_cov_3.256637	168	2464	14.6667	4.773
NODE_450_length_166_cov_5.630631	166	1156	6.9639	3.6568
NODE_451_length_164_cov_11.183486	164	2211	13.4817	4.2361
NODE_452_length_163_cov_11.657407	163	4955	30.3988	10.1893

NODE_453_length_161_cov_9.273585	161	2431	15.0994	4.3126
NODE_454_length_161_cov_7.443396	161	5847	36.3168	10.9762
NODE_455_length_160_cov_7.809524	160	963	6.0187	2.6136
NODE_456_length_160_cov_4.428571	160	3107	19.4187	7.446
NODE_457_length_159_cov_6.971154	159	1554	9.7736	3.0999
NODE_458_length_158_cov_182.223301	158	99167	627.6392	181.5875
NODE_459_length_158_cov_10.611650	158	5656	35.7975	12.003
NODE_460_length_158_cov_4.417476	158	2999	18.981	8.1423
NODE_461_length_157_cov_7.676471	157	4353	27.7261	7.1686
NODE_462_length_156_cov_10.158416	156	2842	18.2179	6.0904
NODE_463_length_155_cov_5.230000	155	2849	18.3806	5.8146
NODE_464_length_152_cov_15.618557	152	7223	47.5197	13.8649
NODE_465_length_152_cov_15.164948	152	5070	33.3553	9.4767
NODE_466_length_152_cov_12.783505	152	7854	51.6711	13.3278
NODE_467_length_152_cov_5.175258	152	5562	36.5921	9.7767
NODE_468_length_151_cov_8.197917	151	0	0	0
NODE_469_length_149_cov_34.691489	149	8743	58.6779	19.5429
NODE_470_length_147_cov_29.293478	147	8012	54.5034	14.0317
NODE_471_length_147_cov_22.152174	147	11057	75.2177	19.3125
NODE_472_length_145_cov_12.111111	145	2138	14.7448	5.4225
NODE_473_length_145_cov_6.533333	145	4494	30.9931	8.3728
NODE_474_length_145_cov_5.622222	145	2663	18.3655	4.5619
NODE_475_length_138_cov_5.771084	138	2933	21.2536	4.7762
NODE_476_length_135_cov_5.762500	135	3604	26.6963	6.8554
NODE_477_length_130_cov_6.933333	130	1733	13.3308	2.1746
NODE_478_length_129_cov_6.756757	129	126	0.9767	0.1507
NODE_479_length_127_cov_10.958333	127	5295	41.6929	11.7778
NODE_480_length_124_cov_6.159420	124	1168	9.4194	2.2757
NODE_481_length_123_cov_9.735294	123	1664	13.5285	3.2468
NODE_482_length_123_cov_7.191176	123	566	4.6016	0.9348
NODE_483_length_122_cov_24.149254	122	844	6.918	1.4519
NODE_484_length_120_cov_24.538462	120	5028	41.9	4.0402
NODE_485_length_119_cov_5.703125	119	5583	46.916	7.457
NODE_486_length_119_cov_5.406250	119	425	3.5714	0.8155
NODE_487_length_116_cov_4.114754	116	2401	20.6983	5.582
NODE_488_length_115_cov_24.733333	115	5940	51.6522	7.2424
NODE_489_length_114_cov_9.033898	114	1048	9.193	1.9596

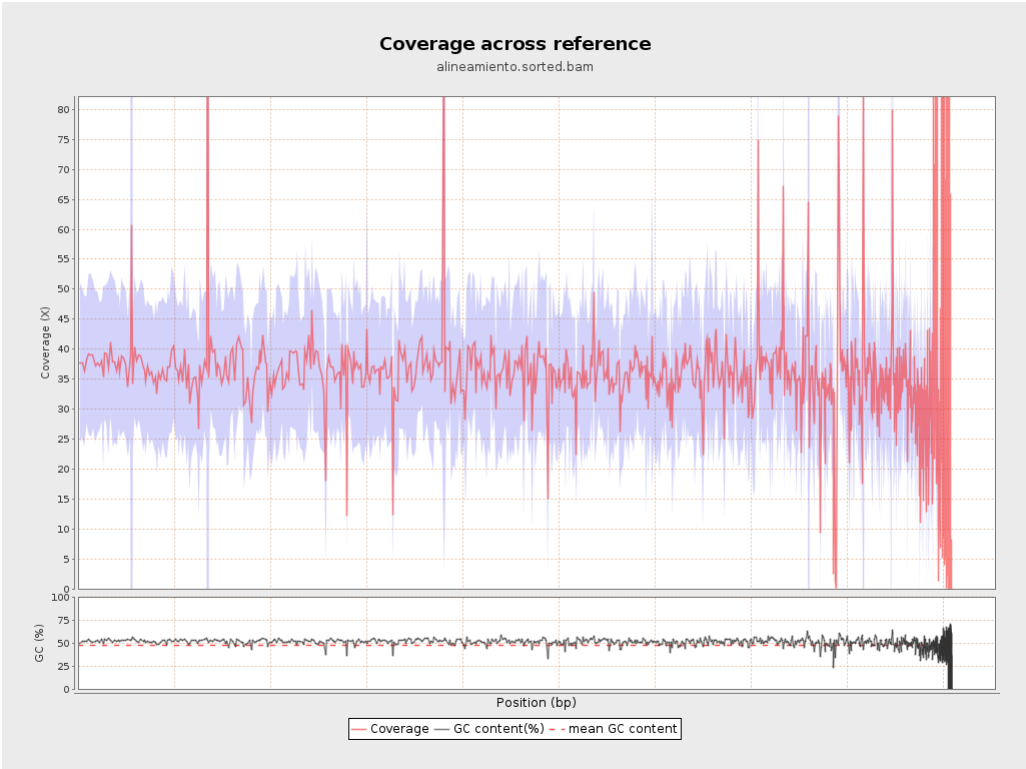
NODE_490_length_114_cov_8.593220	114	101	0.886	0.3179
NODE_491_length_114_cov_7.305085	114	739	6.4825	1.1565
NODE_492_length_114_cov_5.576271	114	1920	16.8421	2.5703
NODE_493_length_112_cov_12.017544	112	4165	37.1875	5.6585
NODE_494_length_112_cov_4.877193	112	112	1	0
NODE_495_length_111_cov_122.446429	111	32090	289.0991	35.5829
NODE_496_length_111_cov_78.392857	111	24428	220.0721	26.8911
NODE_497_length_111_cov_29.517857	111	6242	56.2342	6.3724
NODE_498_length_111_cov_28.750000	111	8007	72.1351	10.2864
NODE_499_length_111_cov_26.303571	111	5525	49.7748	7.148
NODE_500_length_111_cov_25.089286	111	6963	62.7297	7.3398
NODE_501_length_111_cov_16.339286	111	5838	52.5946	6.1796
NODE_502_length_111_cov_15.839286	111	1581	14.2432	2.9231
NODE_503_length_111_cov_13.428571	111	73	0.6577	0.9348
NODE_504_length_111_cov_13.017857	111	1797	16.1892	2.5687
NODE_505_length_111_cov_12.714286	111	1349	12.1532	1.4091
NODE_506_length_111_cov_12.625000	111	0	0	0
NODE_507_length_111_cov_12.410714	111	0	0	0
NODE_508_length_111_cov_12.410714	111	2293	20.6577	2.1995
NODE_509_length_111_cov_10.482143	111	0	0	0
NODE_510_length_111_cov_10.017857	111	299	2.6937	2.7535
NODE_511_length_111_cov_9.017857	111	749	6.7477	0.5106
NODE_512_length_111_cov_8.410714	111	1005	9.0541	1.681
NODE_513_length_111_cov_8.303571	111	3087	27.8108	3.5324
NODE_514_length_111_cov_7.696429	111	85	0.7658	0.4235
NODE_515_length_111_cov_7.660714	111	1966	17.7117	3.5013
NODE_516_length_111_cov_7.446429	111	0	0	0
NODE_517_length_111_cov_7.357143	111	2390	21.5315	2.3551
NODE_518_length_111_cov_7.285714	111	1748	15.7477	2.545
NODE_519_length_111_cov_7.267857	111	2320	20.9009	1.5766
NODE_520_length_111_cov_6.714286	111	1613	14.5315	1.2651
NODE_521_length_111_cov_6.607143	111	1611	14.5135	1.1536
NODE_522_length_111_cov_6.482143	111	3284	29.5856	3.6674
NODE_523_length_111_cov_6.446429	111	0	0	0
NODE_524_length_111_cov_6.178571	111	0	0	0
NODE_525_length_111_cov_6.035714	111	1466	13.2072	2.3176
NODE_526_length_111_cov_5.946429	111	395	3.5586	2.7404

NODE_527_length_111_cov_5.750000	111	426	3.8378	0.5119
NODE_528_length_111_cov_5.678571	111	1379	12.4234	1.0183
NODE_529_length_111_cov_4.696429	111	421	3.7928	0.5713
NODE_530_length_111_cov_4.392857	111	916	8.2523	1.5738
NODE_531_length_111_cov_4.357143	111	1838	16.5586	2.878
NODE_532_length_111_cov_4.107143	111	414	3.7297	0.6143
NODE_533_length_111_cov_3.910714	111	406	3.6577	0.6223
NODE_534_length_111_cov_3.446429	111	0	0	0
NODE_535_length_111_cov_3.142857	111	213	1.9189	0.273
NODE_536_length_110_cov_18.600000	110	2487	22.6091	3.0364
NODE_537_length_110_cov_10.709091	110	2137	19.4273	4.4445
NODE_538_length_109_cov_6.129630	109	1277	11.7156	2.0096
NODE_539_length_109_cov_6.000000	109	990	9.0826	1.9775
NODE_540_length_108_cov_29.509434	108	7120	65.9259	6.9024
NODE_541_length_108_cov_9.188679	108	2179	20.1759	1.3321
NODE_542_length_108_cov_7.339623	108	3278	30.3519	3.8713
NODE_543_length_107_cov_6.019231	107	2512	23.4766	2.1975
NODE_544_length_106_cov_5.980392	106	212	2	2.1805
NODE_545_length_106_cov_4.313725	106	1406	13.2642	1.3549
NODE_546_length_105_cov_5.540000	105	215	2.0476	0.4875
NODE_547_length_103_cov_11.270833	103	4037	39.1942	2.622
NODE_548_length_103_cov_7.625000	103	1410	13.6893	0.8247
NODE_549_length_103_cov_3.104167	103	809	7.8544	0.5102
NODE_550_length_101_cov_20.500000	101	4980	49.3069	3.7778
NODE_551_length_100_cov_14.488889	100	2034	20.34	1.38
NODE_552_length_99_cov_9.886364	99	3027	30.5758	1.1109
NODE_553_length_98_cov_8.976744	98	0	0	0
NODE_554_length_95_cov_7.000000	95	0	0	0
NODE_555_length_95_cov_6.425000	95	933	9.8211	0.9622
NODE_556_length_95_cov_3.475000	95	1866	19.6421	0.6475
NODE_557_length_94_cov_21.153846	94	3456	36.766	6.1166
NODE_558_length_91_cov_7.722222	91	0	0	0
NODE_559_length_88_cov_130.000000	88	198	2.25	1.2454
NODE_560_length_88_cov_79.606061	88	170	1.9318	1.2321
NODE_561_length_88_cov_6.545455	88	356	4.0455	3.8344
NODE_562_length_88_cov_4.666667	88	139	1.5795	0.7937
NODE_563_length_86_cov_13.064516	86	210	2.4419	2.3108

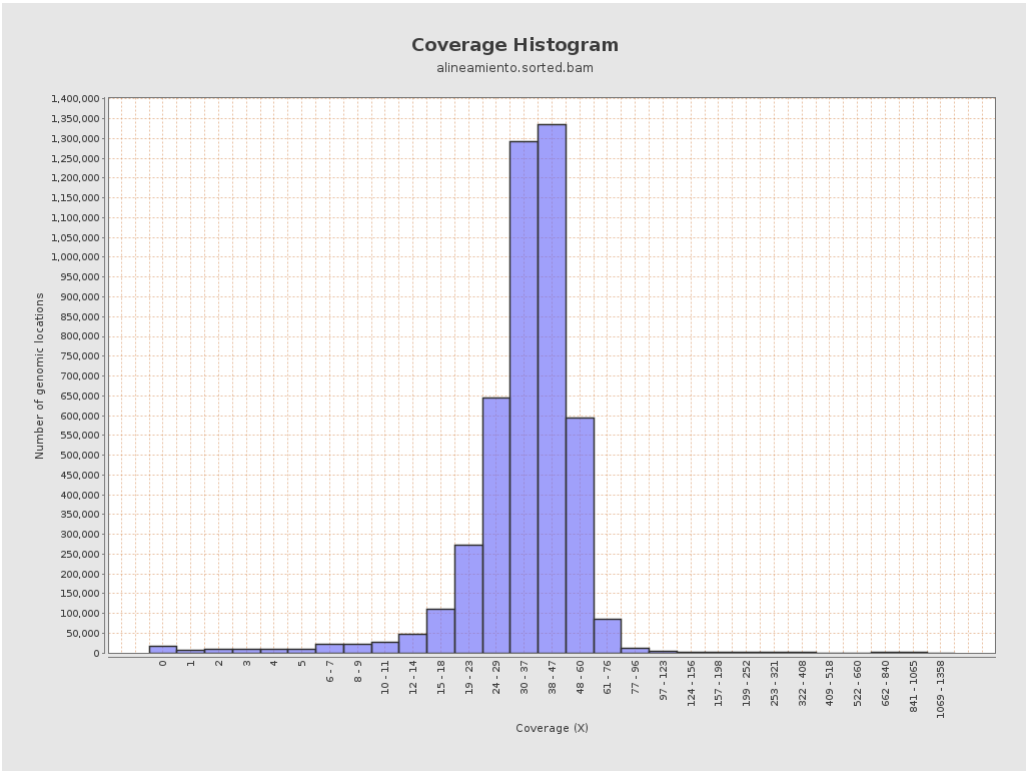
NODE_564_length_86_cov_10.064516	86	153	1.7791	0.5985
NODE_565_length_86_cov_7.258065	86	0	0	0
NODE_566_length_86_cov_4.193548	86	0	0	0
NODE_567_length_85_cov_6.566667	85	62	0.7294	0.4443
NODE_568_length_85_cov_5.833333	85	170	2	0
NODE_569_length_83_cov_16.750000	83	887	10.6867	3.1004
NODE_570_length_81_cov_5.730769	81	0	0	0
NODE_571_length_80_cov_26.200000	80	0	0	0
NODE_572_length_80_cov_5.240000	80	173	2.1625	0.511
NODE_573_length_79_cov_6.833333	79	270	3.4177	1.7903
NODE_574_length_78_cov_204.695652	78	0	0	0
NODE_575_length_78_cov_133.434783	78	0	0	0
NODE_576_length_78_cov_63.521739	78	0	0	0
NODE_577_length_78_cov_14.869565	78	518	6.641	0.64
NODE_578_length_78_cov_13.956522	78	78	1	0
NODE_579_length_77_cov_6.318182	77	0	0	0
NODE_580_length_76_cov_16.761905	76	972	12.7895	0.5457
NODE_581_length_75_cov_11.450000	75	0	0	0
NODE_582_length_75_cov_10.600000	75	165	2.2	1.8403
NODE_583_length_74_cov_20.736842	74	0	0	0
NODE_584_length_74_cov_8.473684	74	0	0	0
NODE_585_length_72_cov_6.588235	72	0	0	0
NODE_586_length_71_cov_15.437500	71	0	0	0
NODE_587_length_70_cov_165.266667	70	0	0	0
NODE_588_length_70_cov_15.133333	70	0	0	0
NODE_589_length_69_cov_3.285714	69	0	0	0
NODE_590_length_68_cov_24.615385	68	0	0	0
NODE_591_length_68_cov_21.615385	68	0	0	0
NODE_592_length_67_cov_30.333333	67	0	0	0
NODE_593_length_67_cov_18.083333	67	0	0	0
NODE_594_length_67_cov_16.416667	67	0	0	0
NODE_595_length_66_cov_32.727273	66	0	0	0
NODE_596_length_65_cov_17.900000	65	0	0	0
NODE_597_length_65_cov_12.700000	65	0	0	0
NODE_598_length_65_cov_9.300000	65	30	0.4615	0.4985
NODE_599_length_64_cov_12.000000	64	0	0	0
NODE_600_length_63_cov_20.500000	63	528	8.381	1.2141

NODE_601_length_63_cov_15.375000	63	0	0	0
NODE_602_length_63_cov_7.375000	63	0	0	0
NODE_603_length_61_cov_4.166667	61	0	0	0
NODE_604_length_60_cov_29.600000	60	0	0	0
NODE_605_length_60_cov_25.200000	60	0	0	0
NODE_606_length_60_cov_10.000000	60	0	0	0
NODE_607_length_60_cov_5.000000	60	0	0	0
NODE_608_length_59_cov_9.500000	59	0	0	0
NODE_609_length_59_cov_4.000000	59	0	0	0
NODE_610_length_58_cov_22.000000	58	98	1.6897	1.4646
NODE_611_length_58_cov_14.000000	58	0	0	0
NODE_612_length_58_cov_13.000000	58	0	0	0
NODE_613_length_57_cov_24.500000	57	0	0	0
NODE_614_length_57_cov_24.000000	57	0	0	0
NODE_615_length_57_cov_20.000000	57	0	0	0
NODE_616_length_57_cov_16.000000	57	0	0	0
NODE_617_length_57_cov_14.000000	57	0	0	0
NODE_618_length_56_cov_30.000000	56	0	0	0
NODE_619_length_56_cov_24.000000	56	0	0	0
NODE_620_length_56_cov_20.000000	56	426	7.6071	2.3955
NODE_621_length_56_cov_16.000000	56	0	0	0
NODE_622_length_56_cov_15.000000	56	0	0	0

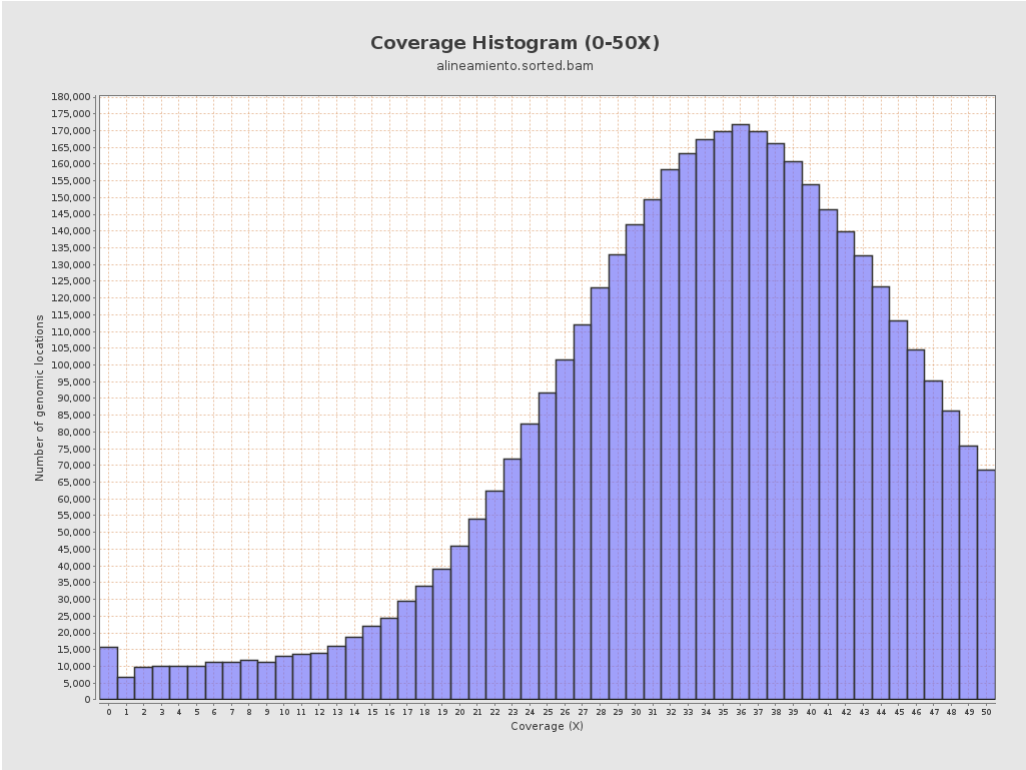
Coverage across reference



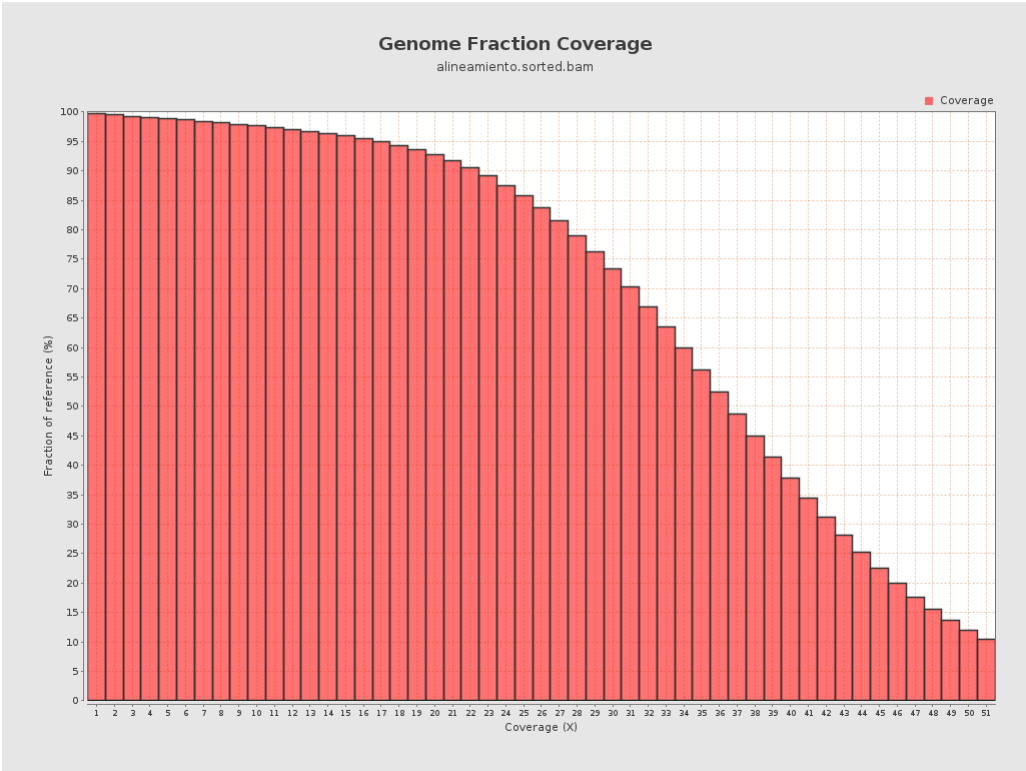
Coverage Histogram



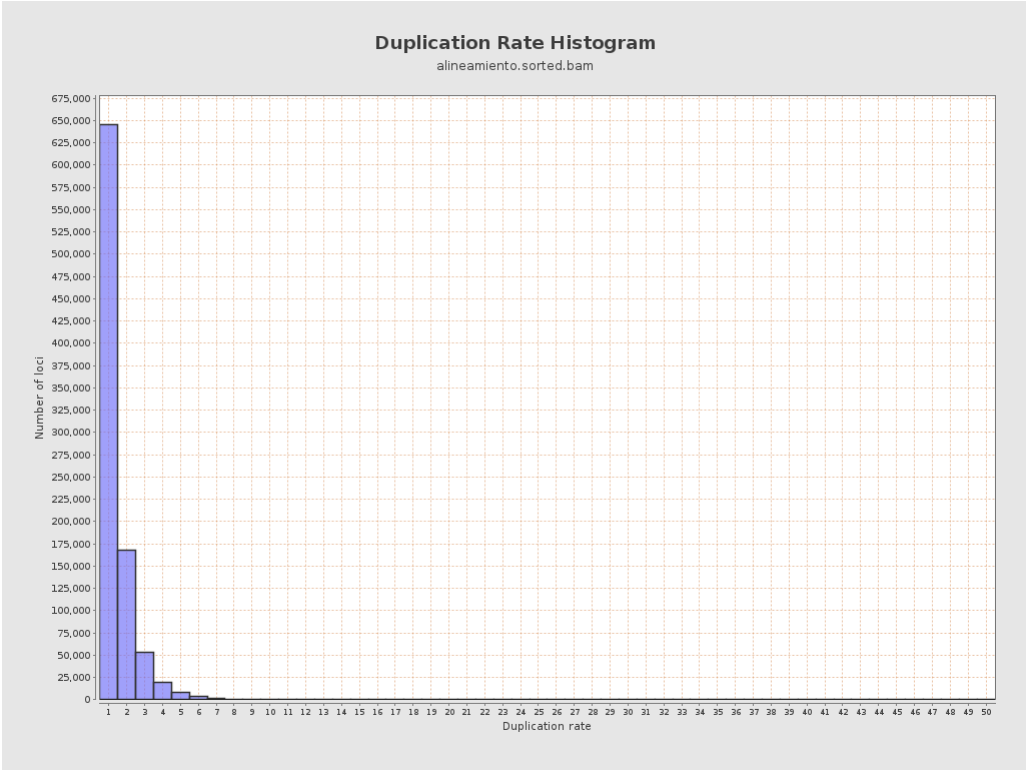
Coverage Histogram (0-50X)



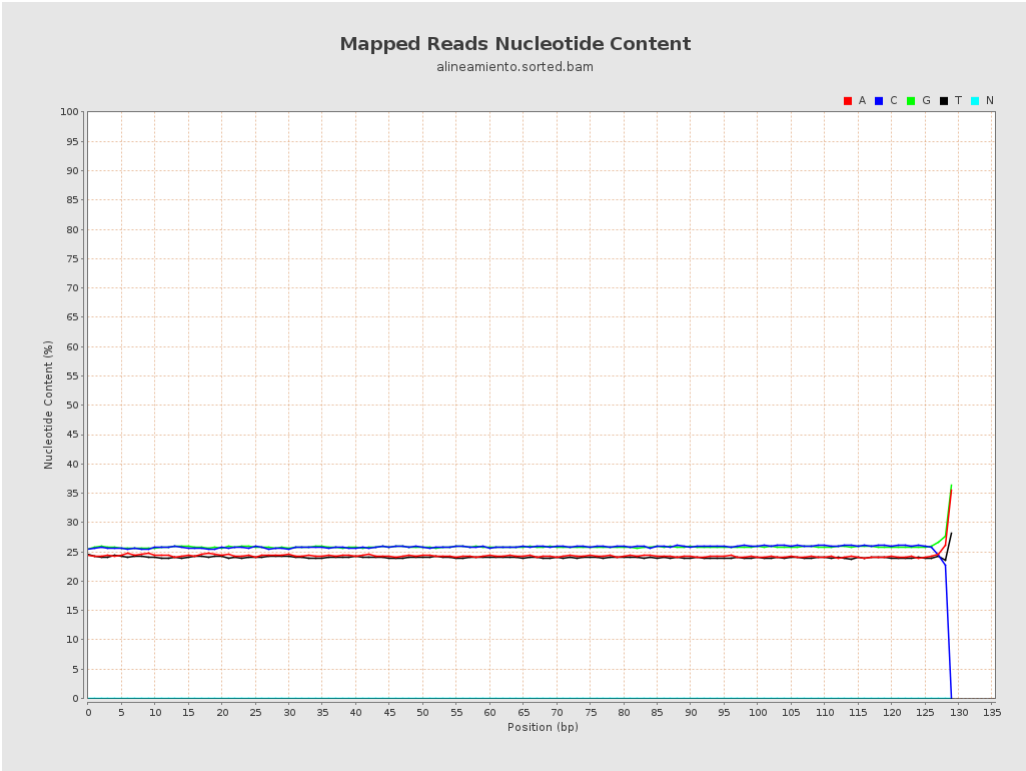
Genome Fraction Coverage



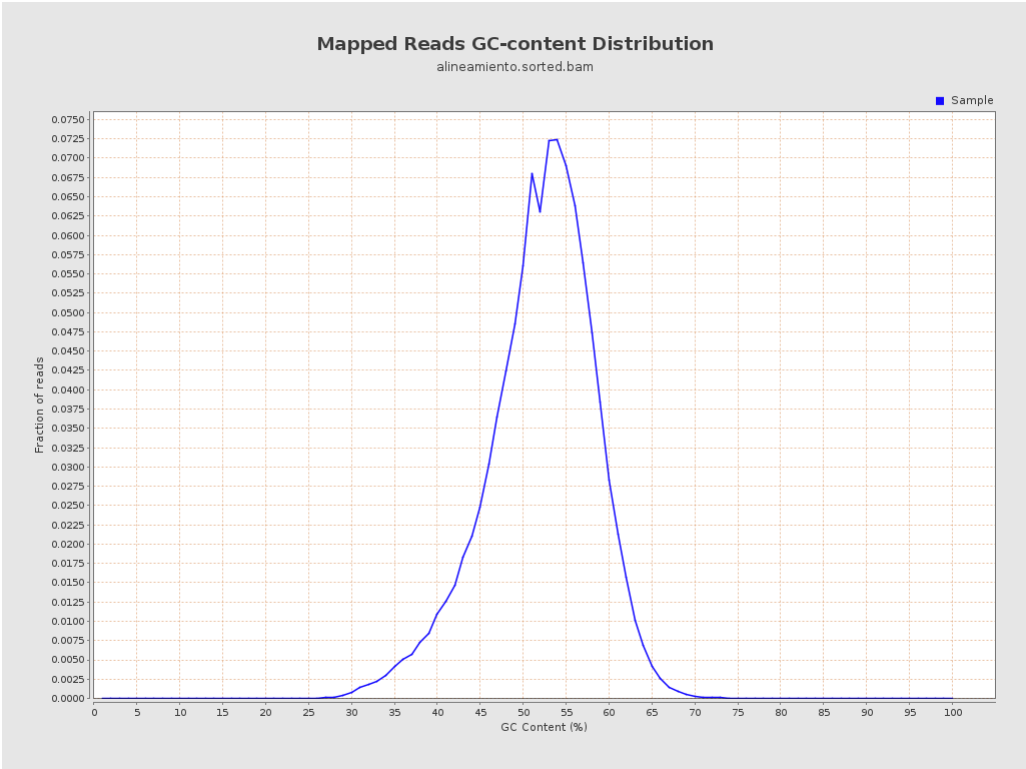
Duplication Rate Histogram



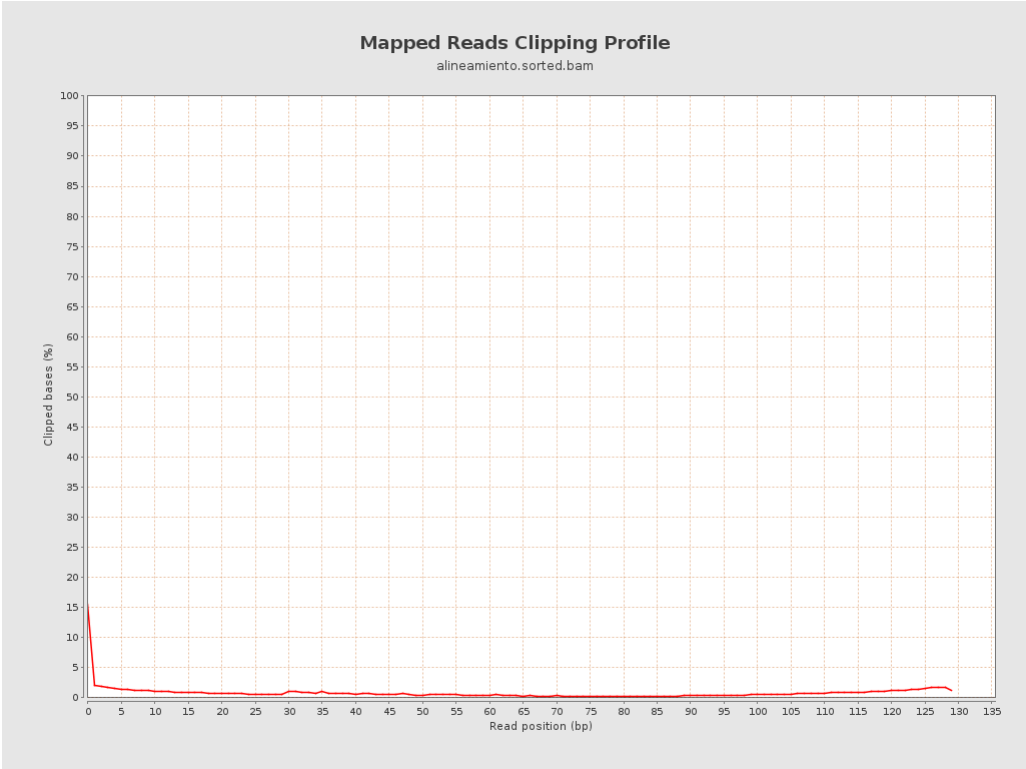
Mapped Reads Nucleotide Content



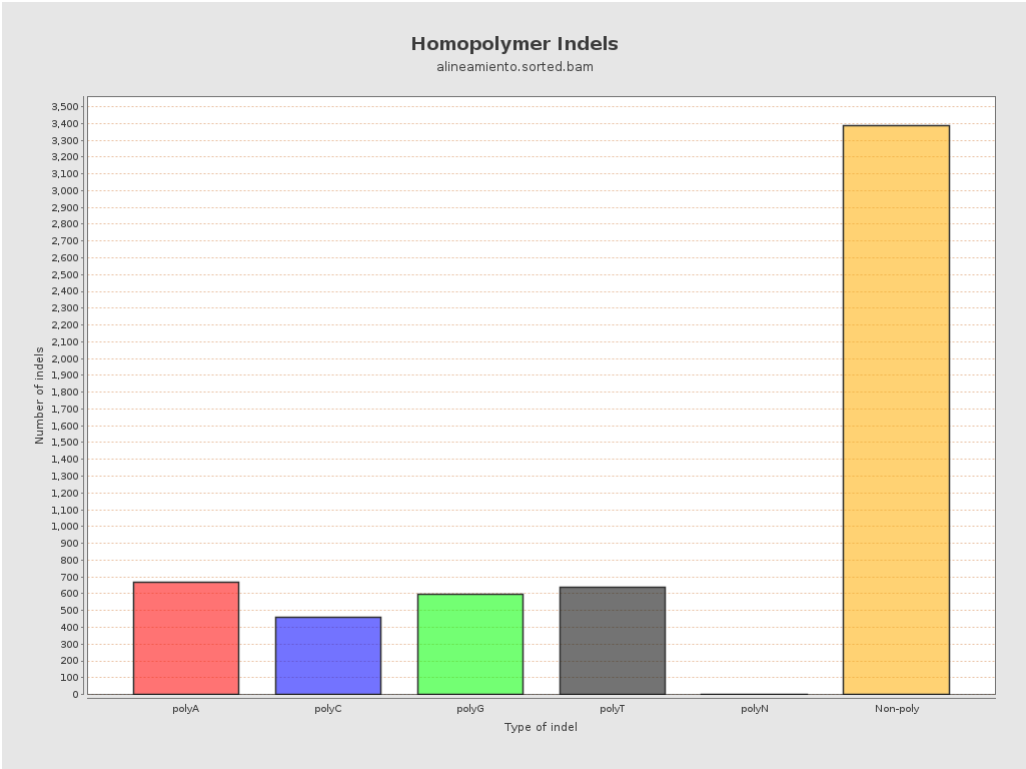
Mapped Reads GC-content Distribution



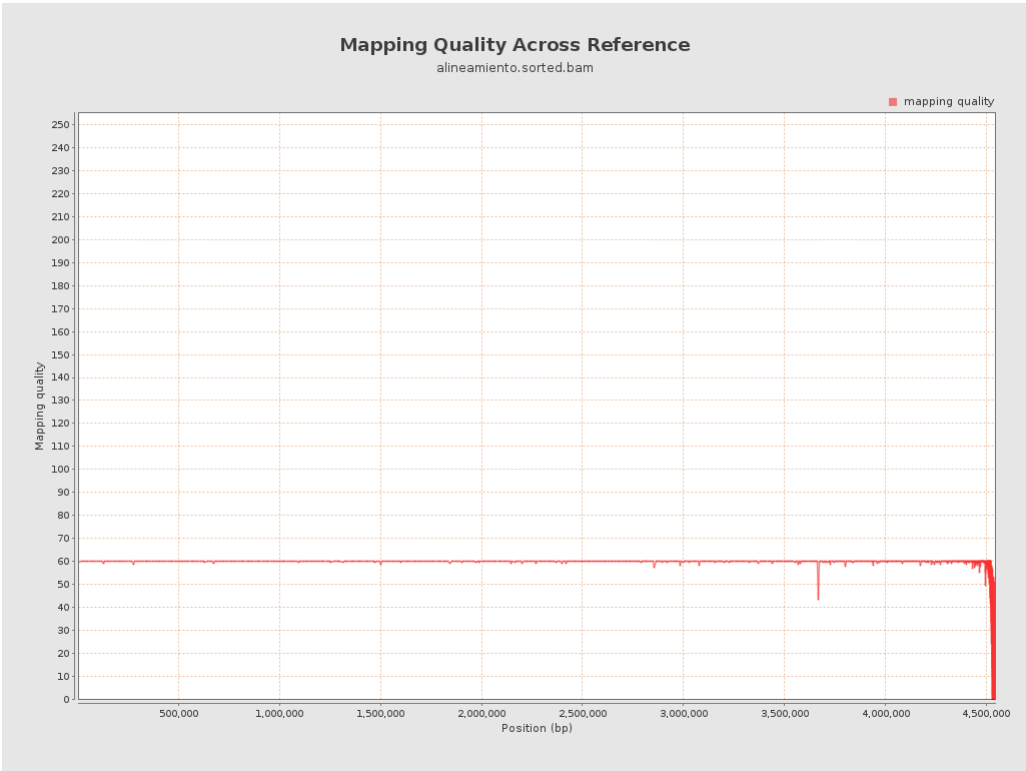
Mapped Reads Clipping Profile



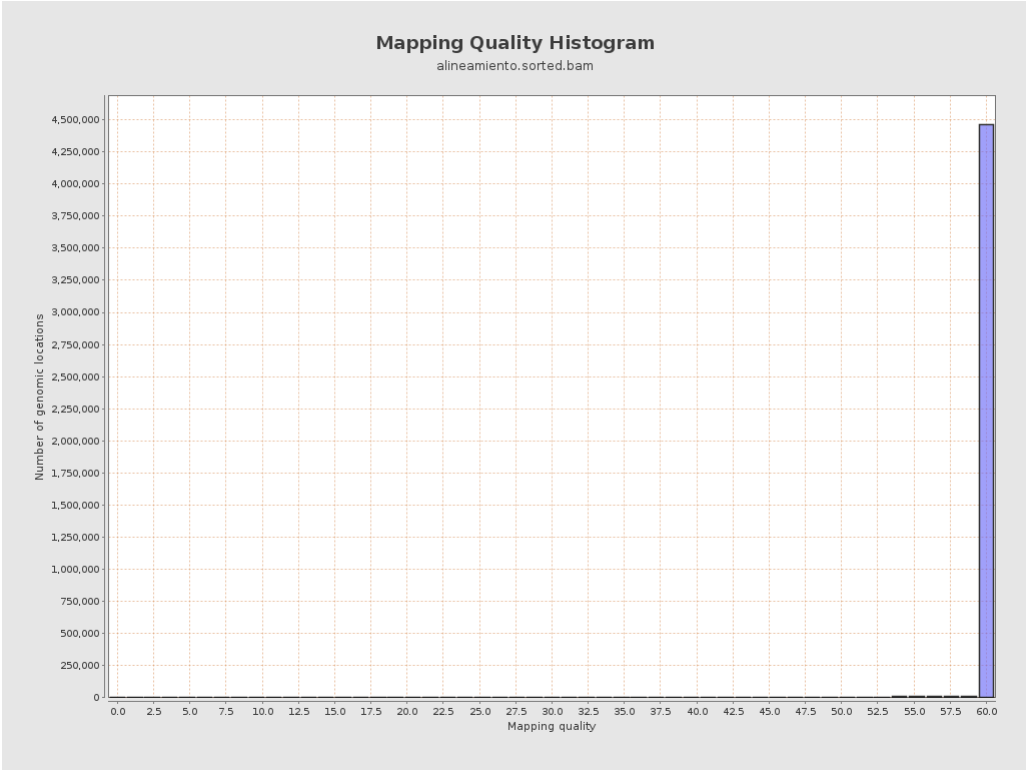
Homopolymer Indels



Mapping Quality Across Reference



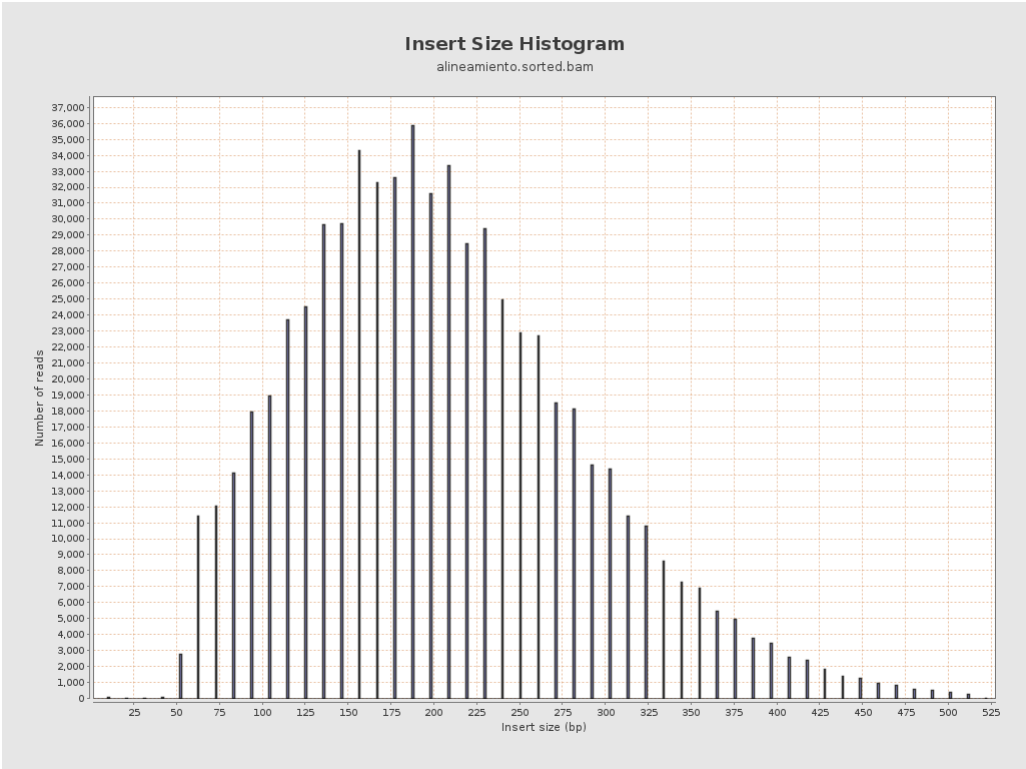
Mapping Quality Histogram



Insert Size Across Reference



Insert Size Histogram



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