

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/evol1_R1.clean.fq clean_fastp/evol1_R2.clean.fq
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.19-r1273)
Analysis date:	Sun Sep 28 15:28:14 COT 2025
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	alineamiento.sorted.bam

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Summary

Globals

Reference size	4,542,330
Number of reads	1,412,170
Mapped reads	1,410,726 / 99.9%
Unmapped reads	1,444 / 0.1%
Mapped paired reads	1,410,726 / 99.9%
Mapped reads, first in pair	705,376 / 49.95%
Mapped reads, second in pair	705,350 / 49.95%
Mapped reads, both in pair	1,410,576 / 99.89%
Mapped reads, singletons	150 / 0.01%
Secondary alignments	0
Supplementary alignments	2,793 / 0.2%
Read min/max/mean length	30 / 130 / 125.05
Duplicated reads (estimated)	450,638 / 31.91%
Duplication rate	28.52%
Clipped reads	33,159 / 2.35%

ACGT Content

Number/percentage of A's	43,148,176 / 24.54%
Number/percentage of C's	44,874,378 / 25.52%
Number/percentage of T's	42,668,061 / 24.27%
Number/percentage of G's	45,147,917 / 25.68%
Number/percentage of N's	256 / 0%
GC Percentage	51.2%

Coverage

Mean	38.7132
Standard Deviation	20.2323

Mapping Quality

Mean Mapping Quality	52.76
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Insert size

Mean	185.31
Standard Deviation	89.31
P25/Median/P75	118 / 169 / 236

Mismatches and indels

General error rate	0.86%
Mismatches	1,507,113
Insertions	1,454
Mapped reads with at least one insertion	0.1%
Deletions	4,649
Mapped reads with at least one deletion	0.33%
Homopolymer indels	41.37%

Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
NODE_1_length_128095_cov_6.785184	128095	5043979	39.3769	11.0156
NODE_2_length_82803_cov_6.565415	82803	3704054	44.7333	12.2726
NODE_3_length_67374_cov_6.990315	67374	2578028	38.2644	38.0711
NODE_4_length_64220_cov_6.902657	64220	2371048	36.9207	11.1026
NODE_5_length_62470_cov_6.652071	62470	2180104	34.8984	10.6452
NODE_6_length_57377_cov_6.450769	57377	1898901	33.0952	9.1109
NODE_7_length_56148_cov_6.680905	56148	2169964	38.6472	10.876
NODE_8_length_53129_cov_6.453913	53129	1889355	35.5617	11.0146

NODE_9_length_51339_cov_6.555690	51339	1750105	34.0892	10.1523
NODE_10_length_50148_cov_7.376619	50148	2070017	41.2782	71.0145
NODE_11_length_47541_cov_6.786885	47541	2134481	44.8977	12.953
NODE_12_length_47476_cov_6.940659	47476	1749362	36.8473	10.4689
NODE_13_length_45748_cov_6.605476	45748	2030562	44.3858	12.8693
NODE_14_length_42164_cov_7.302857	42164	1823379	43.2449	11.4841
NODE_15_length_41859_cov_6.336164	41859	1409884	33.6817	9.6798
NODE_16_length_41246_cov_6.395062	41246	1445447	35.0445	9.8132
NODE_17_length_40621_cov_6.581571	40621	1611619	39.6745	10.8773
NODE_18_length_40269_cov_6.536604	40269	1341614	33.3163	10.5492
NODE_19_length_39449_cov_6.562116	39449	1562668	39.6124	10.8954
NODE_20_length_39197_cov_6.188391	39197	1274750	32.5216	10.0947
NODE_21_length_38592_cov_6.613385	38592	1590420	41.2111	11.5296
NODE_22_length_38180_cov_6.564275	38180	1265213	33.1381	9.4602
NODE_23_length_37841_cov_6.954480	37841	1625607	42.9589	11.5279
NODE_24_length_37771_cov_6.886706	37771	1670876	44.237	12.2875
NODE_25_length_37158_cov_6.616446	37158	1297233	34.9113	11.7389
NODE_26_length_36717_cov_6.611587	36717	1317211	35.8747	10.9823
NODE_27_length_36553_cov_6.506329	36553	1352709	37.0068	10.6273
NODE_28_length_35580_cov_6.758874	35580	1453607	40.8546	11.3999
NODE_29_length_34669_cov_6.887300	34669	1459606	42.1012	11.7594
NODE_30_length_34487_cov_6.705071	34487	1428095	41.4097	12.35
NODE_31_length_34460_cov_6.392559	34460	1178528	34.1999	11.1271
NODE_32_length_34252_cov_6.619031	34252	1312458	38.3177	10.6835
NODE_33_length_33899_cov_6.657635	33899	1204321	35.5267	9.9114
NODE_34_length_33259_cov_6.758041	33259	1313811	39.5024	10.4972
NODE_35_length_32794_cov_6.925441	32794	1177532	35.9069	10.2174
NODE_36_length_31970_cov_8.003227	31970	1114001	34.8452	11.7528
NODE_37_length_31817_cov_6.900573	31817	1401609	44.0522	12.3235
NODE_38_length_31339_cov_6.341421	31339	1317957	42.0549	12.4087
NODE_39_length_31057_cov_6.174247	31057	1020387	32.8553	9.6285
NODE_40_length_30974_cov_6.521621	30974	1429719	46.1587	11.4132
NODE_41_length_29817_cov_6.482562	29817	1148691	38.5247	11.7182
NODE_42_length_28637_cov_6.646596	28637	1006751	35.1556	11.1848
NODE_43_length_28112_cov_6.625548	28112	1124134	39.9877	10.5745
NODE_44_length_27652_cov_10.825597	27652	1734952	62.7424	77.9536
NODE_45_length_27569_cov_6.860253	27569	1259664	45.6913	12.5762

NODE_46_length_27559_cov_6.394743	27559	907373	32.9247	10.6188
NODE_47_length_26904_cov_6.043279	26904	982966	36.5361	10.6711
NODE_48_length_26757_cov_6.483185	26757	893289	33.3852	10.4654
NODE_49_length_26652_cov_6.760650	26652	1156628	43.3974	12.3883
NODE_50_length_26509_cov_7.336395	26509	1176034	44.3636	10.9659
NODE_51_length_26442_cov_6.749574	26442	1111871	42.0494	11.7433
NODE_52_length_26372_cov_6.291409	26372	942660	35.7447	10.0835
NODE_53_length_26281_cov_6.861283	26281	985635	37.5037	11.8821
NODE_54_length_25123_cov_6.655337	25123	987832	39.3198	12.5144
NODE_55_length_24740_cov_6.993437	24740	862297	34.8544	11.4319
NODE_56_length_23978_cov_6.469757	23978	862261	35.9605	10.8942
NODE_57_length_23772_cov_6.394443	23772	1016502	42.7605	11.9699
NODE_58_length_23694_cov_6.439824	23694	842159	35.5431	10.5082
NODE_59_length_22748_cov_6.321024	22748	962508	42.3118	13.1279
NODE_60_length_22139_cov_6.760324	22139	965620	43.6162	12.4772
NODE_61_length_21807_cov_7.152492	21807	901133	41.3231	10.6573
NODE_62_length_21246_cov_6.347506	21246	721418	33.9555	10.8267
NODE_63_length_21017_cov_6.696069	21017	912011	43.394	14.1998
NODE_64_length_20743_cov_7.134957	20743	907928	43.7703	13.5909
NODE_65_length_20727_cov_6.587558	20727	841995	40.6231	11.3554
NODE_66_length_20091_cov_6.478838	20091	821148	40.8714	12.1507
NODE_67_length_19289_cov_6.788032	19289	716077	37.1236	13.0718
NODE_68_length_19139_cov_6.715364	19139	716978	37.4616	11.0735
NODE_69_length_19032_cov_6.474733	19032	589373	30.9675	10.9483
NODE_70_length_18897_cov_6.684163	18897	695847	36.8231	9.9168
NODE_71_length_18650_cov_7.063243	18650	761598	40.8364	11.3244
NODE_72_length_18603_cov_6.917457	18603	798294	42.9121	10.7156
NODE_73_length_18577_cov_7.166019	18577	832844	44.832	12.6839
NODE_74_length_18393_cov_6.084033	18393	608434	33.0796	10.1819
NODE_75_length_18342_cov_6.023951	18342	634511	34.5933	9.287
NODE_76_length_18219_cov_6.538373	18219	752530	41.3047	11.4502
NODE_77_length_18195_cov_6.592503	18195	675010	37.0987	12.2356
NODE_78_length_18022_cov_7.746146	18022	649503	36.0395	10.5905
NODE_79_length_17913_cov_6.040710	17913	724580	40.45	11.2606
NODE_80_length_17900_cov_6.413505	17900	589710	32.9447	9.7201
NODE_81_length_17457_cov_7.285427	17457	759655	43.5158	10.2905
NODE_82_length_16990_cov_6.549099	16990	786533	46.2939	13.0166

NODE_83_length_16905_cov_6.053769	16905	572364	33.8577	8.1388
NODE_84_length_16593_cov_6.576611	16593	664743	40.0617	11.6273
NODE_85_length_16491_cov_6.428997	16491	602727	36.5488	10.0925
NODE_86_length_16420_cov_6.759548	16420	547770	33.3599	10.1345
NODE_87_length_16202_cov_6.665449	16202	752217	46.4274	13.406
NODE_88_length_16111_cov_7.069756	16111	612773	38.0344	11.0727
NODE_89_length_15876_cov_6.341382	15876	573899	36.1488	11.6486
NODE_90_length_15540_cov_7.766032	15540	646925	41.6297	10.5867
NODE_91_length_15214_cov_6.587836	15214	583059	38.3238	11.0996
NODE_92_length_14873_cov_7.090566	14873	558856	37.5752	12.6992
NODE_93_length_14803_cov_6.983116	14803	572927	38.7034	11.8326
NODE_94_length_14785_cov_6.378140	14785	491320	33.231	8.9858
NODE_95_length_14769_cov_6.527117	14769	624249	42.2675	11.992
NODE_96_length_14488_cov_6.429155	14488	527753	36.4269	9.7533
NODE_97_length_14406_cov_7.541495	14406	604489	41.9609	12.2609
NODE_98_length_14156_cov_6.223459	14156	465914	32.9128	9.7929
NODE_99_length_14122_cov_6.741167	14122	525454	37.2082	17.9463
NODE_100_length_14104_cov_6.241298	14104	479157	33.9731	10.1428
NODE_101_length_14024_cov_6.575775	14024	480909	34.2919	9.2332
NODE_102_length_13760_cov_6.919081	13760	495850	36.0356	11.2946
NODE_103_length_13755_cov_6.425474	13755	491061	35.7005	10.4877
NODE_104_length_13709_cov_6.954446	13709	609631	44.4694	11.7363
NODE_105_length_13692_cov_6.751218	13692	497624	36.3441	11.2201
NODE_106_length_13612_cov_6.425242	13612	524966	38.5664	11.6889
NODE_107_length_13357_cov_5.791836	13357	477253	35.7306	11.0152
NODE_108_length_13246_cov_6.092032	13246	510188	38.5164	11.6126
NODE_109_length_13239_cov_6.749697	13239	435857	32.9222	9.6211
NODE_110_length_13191_cov_6.710947	13191	493193	37.3886	10.9003
NODE_111_length_13151_cov_6.361255	13151	564422	42.9186	11.836
NODE_112_length_13136_cov_6.322300	13136	463756	35.3042	10.3217
NODE_113_length_13128_cov_6.885336	13128	520367	39.6379	12.0781
NODE_114_length_13044_cov_6.074833	13044	510309	39.1221	9.6694
NODE_115_length_13019_cov_6.245526	13019	418338	32.1329	11.1292
NODE_116_length_12977_cov_6.456121	12977	516104	39.7707	11.4158
NODE_117_length_12875_cov_6.651638	12875	484278	37.6138	10.8796
NODE_118_length_12853_cov_6.005470	12853	425718	33.1221	11.3742
NODE_119_length_12837_cov_6.722735	12837	524077	40.8255	11.655

NODE_120_length_12700_cov_6.565362	12700	583548	45.9487	13.2593
NODE_121_length_12379_cov_6.916423	12379	496141	40.0792	10.836
NODE_122_length_12264_cov_6.544353	12264	511860	41.7368	11.6544
NODE_123_length_12165_cov_7.156647	12165	409194	33.637	9.5953
NODE_124_length_12082_cov_7.223580	12082	586383	48.5336	12.8314
NODE_125_length_12074_cov_6.009069	12074	393821	32.6173	9.8573
NODE_126_length_12062_cov_6.368452	12062	383611	31.8033	9.6719
NODE_127_length_11941_cov_6.979303	11941	451681	37.8261	10.9352
NODE_128_length_11918_cov_6.268988	11918	406850	34.1374	10.2539
NODE_129_length_11753_cov_6.515387	11753	459523	39.0984	9.8273
NODE_130_length_11691_cov_6.022173	11691	438036	37.4678	10.8828
NODE_131_length_11624_cov_6.500562	11624	433960	37.3331	12.5353
NODE_132_length_11431_cov_6.976705	11431	460906	40.3207	12.3718
NODE_133_length_11380_cov_6.774393	11380	449941	39.5379	10.6429
NODE_134_length_11314_cov_6.072298	11314	380904	33.6666	10.4111
NODE_135_length_11122_cov_7.149273	11122	415127	37.3249	9.8286
NODE_136_length_11082_cov_5.591185	11082	367884	33.1965	9.6289
NODE_137_length_11057_cov_6.201963	11057	366444	33.1414	8.6053
NODE_138_length_10940_cov_6.081029	10940	400383	36.5981	10.4808
NODE_139_length_10903_cov_6.430310	10903	384474	35.2631	10.6836
NODE_140_length_10885_cov_6.597045	10885	426724	39.2029	12.2274
NODE_141_length_10884_cov_6.260689	10884	360120	33.0871	11.6951
NODE_142_length_10753_cov_6.053655	10753	391310	36.3908	10.3119
NODE_143_length_10401_cov_6.390682	10401	393695	37.8516	11.9107
NODE_144_length_10374_cov_6.277449	10374	343409	33.1029	8.5382
NODE_145_length_10208_cov_6.641190	10208	448398	43.9261	11.2476
NODE_146_length_10160_cov_6.476200	10160	390607	38.4456	12.892
NODE_147_length_10158_cov_6.608136	10158	441273	43.4409	12.3925
NODE_148_length_10090_cov_7.159542	10090	424453	42.0667	11.3418
NODE_149_length_10083_cov_6.109194	10083	366763	36.3744	10.5662
NODE_150_length_10021_cov_6.794501	10021	411540	41.0678	10.9536
NODE_151_length_9943_cov_6.665251	9943	425114	42.7551	13.5797
NODE_152_length_9909_cov_6.041100	9909	404351	40.8064	11.6795
NODE_153_length_9804_cov_6.671248	9804	345408	35.2313	10.8374
NODE_154_length_9688_cov_7.212187	9688	390656	40.3237	10.683
NODE_155_length_9687_cov_6.106935	9687	360575	37.2226	11.4042
NODE_156_length_9595_cov_6.957128	9595	442895	46.1589	11.5514

NODE_157_length_9595_cov_6.312055	9595	397235	41.4002	16.0436
NODE_158_length_9486_cov_7.761107	9486	402027	42.3811	11.2725
NODE_159_length_9419_cov_6.681867	9419	339049	35.9963	11.9061
NODE_160_length_9378_cov_7.027888	9378	313571	33.4369	9.7799
NODE_161_length_9357_cov_6.134595	9357	334970	35.7989	9.5068
NODE_162_length_9254_cov_7.240461	9254	330307	35.6934	8.6462
NODE_163_length_9148_cov_6.411855	9148	341611	37.3427	11.4197
NODE_164_length_9036_cov_5.761496	9036	353406	39.1109	11.481
NODE_165_length_8923_cov_6.572234	8923	326012	36.5361	10.4894
NODE_166_length_8921_cov_6.142793	8921	291721	32.7005	10.7015
NODE_167_length_8835_cov_5.750228	8835	317819	35.9727	11.0939
NODE_168_length_8803_cov_6.598080	8803	334060	37.9484	11.8596
NODE_169_length_8762_cov_7.217526	8762	383998	43.8254	10.8406
NODE_170_length_8734_cov_6.158313	8734	391450	44.8191	10.4291
NODE_171_length_8598_cov_7.627297	8598	560882	65.234	134.0089
NODE_172_length_8425_cov_6.106332	8425	292321	34.6969	12.7627
NODE_173_length_8314_cov_7.127618	8314	335976	40.4109	14.7484
NODE_174_length_8147_cov_6.582180	8147	291857	35.8239	11.9435
NODE_175_length_8035_cov_6.681955	8035	311900	38.8177	10.955
NODE_176_length_7989_cov_6.163474	7989	343639	43.014	14.642
NODE_177_length_7943_cov_5.998605	7943	272498	34.3067	9.6475
NODE_178_length_7898_cov_6.319521	7898	261724	33.138	10.7382
NODE_179_length_7896_cov_7.494197	7896	285951	36.2147	9.2856
NODE_180_length_7756_cov_5.656019	7756	266726	34.3896	10.9073
NODE_181_length_7720_cov_6.688715	7720	295953	38.3359	10.2427
NODE_182_length_7675_cov_7.083596	7675	329417	42.9208	11.9139
NODE_183_length_7555_cov_5.330667	7555	246865	32.6757	11.2899
NODE_184_length_7469_cov_6.961964	7469	255841	34.2537	10.2928
NODE_185_length_7458_cov_6.454951	7458	287125	38.4989	9.4386
NODE_186_length_7422_cov_6.788109	7422	284643	38.3513	10.6969
NODE_187_length_7381_cov_6.105242	7381	257344	34.8657	11.7204
NODE_188_length_7334_cov_6.237533	7334	263000	35.8604	13.5749
NODE_189_length_7296_cov_6.811214	7296	288888	39.5954	10.737
NODE_190_length_7177_cov_6.678321	7177	247041	34.4212	10.0207
NODE_191_length_7142_cov_7.155496	7142	306326	42.8908	11.5161
NODE_192_length_7107_cov_7.622235	7107	459271	64.6223	34.4514
NODE_193_length_6975_cov_6.909249	6975	281238	40.3209	9.5442

NODE_194_length_6858_cov_6.137439	6858	259948	37.9043	9.4732
NODE_195_length_6771_cov_5.588892	6771	252986	37.3632	10.5307
NODE_196_length_6748_cov_6.346033	6748	227960	33.7819	8.7268
NODE_197_length_6722_cov_5.153442	6722	251401	37.3997	11.0185
NODE_198_length_6679_cov_6.203955	6679	265884	39.809	12.6535
NODE_199_length_6667_cov_6.564277	6667	236575	35.4845	14.6691
NODE_200_length_6649_cov_7.459812	6649	242008	36.3977	9.8935
NODE_201_length_6613_cov_7.254346	6613	272159	41.1551	12.2273
NODE_202_length_6553_cov_7.187135	6553	238978	36.4685	10.3066
NODE_203_length_6536_cov_6.179911	6536	249240	38.1334	15.5746
NODE_204_length_6465_cov_7.045242	6465	294841	45.6057	10.6359
NODE_205_length_6400_cov_6.742632	6400	253031	39.5361	11.6133
NODE_206_length_6386_cov_6.028432	6386	226432	35.4576	10.7265
NODE_207_length_6301_cov_6.661063	6301	239903	38.0738	13.638
NODE_208_length_6293_cov_6.326868	6293	213128	33.8675	11.4802
NODE_209_length_6284_cov_6.289934	6284	203705	32.4165	8.6592
NODE_210_length_6165_cov_6.291162	6165	248614	40.3267	11.1996
NODE_211_length_6159_cov_9.525229	6159	354179	57.5059	87.7597
NODE_212_length_6133_cov_6.379730	6133	206262	33.6315	11.7073
NODE_213_length_6078_cov_6.039681	6078	249229	41.0051	14.4941
NODE_214_length_6009_cov_6.648975	6009	214484	35.6938	13.1126
NODE_215_length_5932_cov_5.672112	5932	251481	42.394	13.6275
NODE_216_length_5874_cov_6.323767	5874	213175	36.2913	13.1052
NODE_217_length_5855_cov_6.883276	5855	240471	41.0711	11.581
NODE_218_length_5718_cov_6.152040	5718	215105	37.6189	14.127
NODE_219_length_5682_cov_7.177537	5682	227528	40.0436	15.286
NODE_220_length_5598_cov_6.038066	5598	186876	33.3826	11.555
NODE_221_length_5502_cov_5.499174	5502	231478	42.0716	10.3535
NODE_222_length_5469_cov_5.423347	5469	177773	32.5056	11.9467
NODE_223_length_5346_cov_5.627481	5346	177347	33.1738	9.864
NODE_224_length_5300_cov_7.339180	5300	182555	34.4443	8.9722
NODE_225_length_5267_cov_5.527245	5267	162873	30.9233	12.8547
NODE_226_length_5217_cov_5.393065	5217	203024	38.9159	13.7861
NODE_227_length_5203_cov_5.933955	5203	179919	34.5799	10.226
NODE_228_length_4926_cov_6.994046	4926	212322	43.1023	12.2871
NODE_229_length_4720_cov_6.840729	4720	180073	38.1511	10.9964
NODE_230_length_4702_cov_6.786529	4702	189139	40.2252	11.7777

NODE_231_length_4700_cov_7.118622	4700	213459	45.4168	14.1164
NODE_232_length_4593_cov_6.044513	4593	192196	41.8454	12.0195
NODE_233_length_4572_cov_5.734337	4572	171889	37.596	10.271
NODE_234_length_4558_cov_7.129691	4558	158552	34.7854	10.0007
NODE_235_length_4542_cov_5.179853	4542	155533	34.2433	13.3117
NODE_236_length_4505_cov_7.164045	4505	220707	48.9916	13.7891
NODE_237_length_4463_cov_5.786298	4463	139358	31.2252	10.0265
NODE_238_length_4453_cov_7.615962	4453	236229	53.0494	53.4504
NODE_239_length_4447_cov_6.114299	4447	185122	41.6285	12.8603
NODE_240_length_4426_cov_10.998399	4426	314043	70.9541	30.3928
NODE_241_length_4404_cov_6.086457	4404	136044	30.891	14.0582
NODE_242_length_4388_cov_6.789061	4388	200099	45.6014	14.803
NODE_243_length_4360_cov_6.666202	4360	146800	33.6697	10.9715
NODE_244_length_4321_cov_7.052274	4321	198005	45.8239	11.0424
NODE_245_length_4269_cov_5.857143	4269	173100	40.5481	11.9839
NODE_246_length_4254_cov_7.927840	4254	195306	45.9111	10.3962
NODE_247_length_4238_cov_7.502271	4238	199687	47.1182	18.9181
NODE_248_length_4232_cov_6.754369	4232	185577	43.8509	15.5392
NODE_249_length_4191_cov_6.534091	4191	128243	30.5996	8.5569
NODE_250_length_3989_cov_7.109812	3989	149075	37.3715	11.2408
NODE_251_length_3987_cov_6.222279	3987	178283	44.7161	11.2975
NODE_252_length_3918_cov_6.998188	3918	136590	34.8622	10.8007
NODE_253_length_3914_cov_7.053382	3914	180833	46.2016	12.0959
NODE_254_length_3889_cov_7.051904	3889	151668	38.9992	11.1986
NODE_255_length_3840_cov_6.864201	3840	150794	39.2693	13.8278
NODE_256_length_3718_cov_5.793612	3718	5641	1.5172	6.9363
NODE_257_length_3612_cov_6.984256	3612	149004	41.2525	16.0927
NODE_258_length_3459_cov_6.787897	3459	112154	32.4238	11.2523
NODE_259_length_3454_cov_7.741689	3454	135895	39.3442	13.2103
NODE_260_length_3445_cov_5.969027	3445	109779	31.8662	7.4988
NODE_261_length_3436_cov_6.466726	3436	123212	35.8591	12.3522
NODE_262_length_3417_cov_5.727246	3417	134167	39.2646	13.2953
NODE_263_length_3391_cov_6.460132	3391	158056	46.6104	13.0045
NODE_264_length_3221_cov_5.989893	3221	123277	38.2729	9.4926
NODE_265_length_3197_cov_5.321451	3197	104316	32.6293	13.1217
NODE_266_length_3165_cov_5.041158	3165	111812	35.3276	14.7039
NODE_267_length_2986_cov_5.404640	2986	80396	26.9243	9.1154

NODE_268_length_2892_cov_6.400070	2892	120804	41.7718	11.229
NODE_269_length_2874_cov_5.641717	2874	103651	36.0651	11.6974
NODE_270_length_2840_cov_6.217235	2840	114399	40.2813	11.9847
NODE_271_length_2824_cov_5.682196	2824	93940	33.2649	9.8235
NODE_272_length_2824_cov_5.415312	2824	100201	35.4819	13.5641
NODE_273_length_2815_cov_6.638043	2815	100311	35.6345	16.356
NODE_274_length_2803_cov_6.133916	2803	83460	29.7752	8.4344
NODE_275_length_2801_cov_5.910051	2801	76549	27.3292	9.1923
NODE_276_length_2799_cov_5.498178	2799	113304	40.4802	11.3241
NODE_277_length_2763_cov_7.701994	2763	97633	35.3359	10.834
NODE_278_length_2752_cov_7.131999	2752	97732	35.5131	9.0619
NODE_279_length_2719_cov_7.465090	2719	101347	37.2736	11.577
NODE_280_length_2621_cov_4.977007	2621	71467	27.2671	14.5475
NODE_281_length_2605_cov_6.713725	2605	93035	35.714	11.3618
NODE_282_length_2600_cov_7.387819	2600	90668	34.8723	12.5128
NODE_283_length_2423_cov_6.507601	2423	95395	39.3706	10.5805
NODE_284_length_2411_cov_4.927844	2411	95542	39.6275	10.5126
NODE_285_length_2408_cov_6.631534	2408	82370	34.2068	21.3441
NODE_286_length_2401_cov_6.257033	2401	99427	41.4107	18.191
NODE_287_length_2311_cov_7.305408	2311	87430	37.8321	11.4191
NODE_288_length_2299_cov_7.794118	2299	84515	36.7616	9.8099
NODE_289_length_2285_cov_4.230493	2285	83063	36.3514	17.4769
NODE_290_length_2250_cov_6.409112	2250	89951	39.9782	10.8399
NODE_291_length_2225_cov_6.890323	2225	78611	35.3308	10.4128
NODE_292_length_2201_cov_5.739981	2201	92663	42.1004	13.2538
NODE_293_length_2152_cov_6.685742	2152	102640	47.6952	22.7888
NODE_294_length_2090_cov_5.674693	2090	0	0	0
NODE_295_length_2081_cov_4.181145	2081	46843	22.5099	16.0149
NODE_296_length_2058_cov_6.223665	2058	70894	34.448	10.916
NODE_297_length_2016_cov_5.934217	2016	64077	31.7842	16.5699
NODE_298_length_1962_cov_6.682223	1962	86101	43.8843	14.8316
NODE_299_length_1961_cov_5.969045	1961	80521	41.0612	10.7065
NODE_300_length_1849_cov_7.397993	1849	63671	34.4354	10.433
NODE_301_length_1792_cov_4.773172	1792	45493	25.3867	14.3987
NODE_302_length_1745_cov_4.195266	1745	45269	25.9421	13.6906
NODE_303_length_1738_cov_6.494355	1738	68405	39.3585	12.8762
NODE_304_length_1733_cov_6.300358	1733	61296	35.3699	12.1712

NODE_305_length_1701_cov_7.597813	1701	73799	43.3857	11.8529
NODE_306_length_1692_cov_7.228467	1692	13821	8.1684	12.842
NODE_307_length_1660_cov_6.632399	1660	72767	43.8355	9.9422
NODE_308_length_1659_cov_5.844763	1659	52146	31.4322	14.8197
NODE_309_length_1639_cov_5.011995	1639	43404	26.482	14.1384
NODE_310_length_1636_cov_4.981657	1636	43460	26.5648	13.9869
NODE_311_length_1619_cov_5.331841	1619	47482	29.328	10.0665
NODE_312_length_1524_cov_6.925119	1524	67900	44.5538	13.3245
NODE_313_length_1515_cov_7.513699	1515	64127	42.3281	12.3872
NODE_314_length_1458_cov_5.365645	1458	36579	25.0885	10.9656
NODE_315_length_1411_cov_5.904867	1411	49130	34.8193	12.0514
NODE_316_length_1401_cov_5.419019	1401	45681	32.606	26.8092
NODE_317_length_1343_cov_28.016304	1343	206569	153.8116	56.4546
NODE_318_length_1330_cov_6.074510	1330	39639	29.8038	12.6841
NODE_319_length_1317_cov_15.332805	1317	44737	33.9689	11.527
NODE_320_length_1316_cov_8.438541	1316	50394	38.2933	9.2876
NODE_321_length_1267_cov_7.046205	1267	1503	1.1863	3.5525
NODE_322_length_1264_cov_5.028122	1264	35226	27.8687	9.5571
NODE_323_length_1242_cov_6.393429	1242	45264	36.4444	10.772
NODE_324_length_1234_cov_6.662426	1234	43163	34.9781	13.1213
NODE_325_length_1220_cov_5.731330	1220	41906	34.3492	10.9059
NODE_326_length_1202_cov_31.651264	1202	224981	187.1722	45.4985
NODE_327_length_1202_cov_6.162162	1202	44859	37.3203	14.8384
NODE_328_length_1184_cov_6.378211	1184	36771	31.0566	12.8256
NODE_329_length_1126_cov_5.515406	1126	44758	39.7496	15.2665
NODE_330_length_1120_cov_6.895775	1120	39674	35.4232	14.4414
NODE_331_length_1061_cov_52.165010	1061	397192	374.3563	76.1478
NODE_332_length_1058_cov_6.152542	1058	46805	44.2391	12.7746
NODE_333_length_1049_cov_5.069416	1049	31005	29.5567	9.6348
NODE_334_length_1028_cov_6.548818	1028	25422	24.7296	11.5561
NODE_335_length_1017_cov_6.663202	1017	23522	23.1288	12.6054
NODE_336_length_1005_cov_6.855789	1005	47606	47.3692	23.0333
NODE_337_length_997_cov_4.842887	997	33682	33.7834	12.9083
NODE_338_length_988_cov_5.786710	988	25270	25.5769	11.8425
NODE_339_length_980_cov_6.978378	980	34511	35.2153	17.2206
NODE_340_length_969_cov_5.641138	969	31940	32.9618	12.8131
NODE_341_length_959_cov_5.765487	959	26351	27.4776	9.6117

NODE_342_length_955_cov_7.021111	955	31637	33.1277	16.4839
NODE_343_length_946_cov_7.351291	946	31856	33.6744	12.1129
NODE_344_length_941_cov_3.143341	941	22291	23.6886	11.9215
NODE_345_length_933_cov_3.996583	933	22533	24.1511	14.6421
NODE_346_length_927_cov_8.569954	927	33617	36.2643	11.1088
NODE_347_length_908_cov_5.065651	908	25035	27.5716	14.0963
NODE_348_length_893_cov_3.436754	893	14690	16.4502	9.5578
NODE_349_length_888_cov_4.866747	888	8310	9.3581	11.3019
NODE_350_length_870_cov_6.392638	870	28622	32.8989	8.2073
NODE_351_length_831_cov_7.960052	831	30698	36.941	15.5225
NODE_352_length_831_cov_5.025773	831	32409	39	13.8732
NODE_353_length_825_cov_6.254545	825	24246	29.3891	8.6465
NODE_354_length_824_cov_6.001300	824	33946	41.1966	14.5698
NODE_355_length_822_cov_4.878748	822	24221	29.4659	10.9239
NODE_356_length_819_cov_5.837696	819	29353	35.84	12.1776
NODE_357_length_804_cov_8.275033	804	40857	50.8172	22.4451
NODE_358_length_794_cov_5.059540	794	23339	29.3942	9.7629
NODE_359_length_792_cov_4.974220	792	20815	26.2816	9.0802
NODE_360_length_791_cov_53.259511	791	231719	292.9444	52.4023
NODE_361_length_777_cov_8.457064	777	27348	35.1969	17.6906
NODE_362_length_752_cov_8.124821	752	43563	57.9295	24.7239
NODE_363_length_711_cov_32.515244	711	145472	204.602	74.1579
NODE_364_length_688_cov_21.399684	688	91585	133.1177	63.2505
NODE_365_length_674_cov_3.602585	674	12435	18.4496	8.0459
NODE_366_length_650_cov_4.996639	650	31344	48.2215	19.3132
NODE_367_length_648_cov_2.888702	648	10574	16.3179	8.5664
NODE_368_length_620_cov_3.380531	620	19901	32.0984	14.7502
NODE_369_length_606_cov_6.442831	606	18982	31.3234	15.9148
NODE_370_length_598_cov_4.885820	598	13527	22.6204	10.1742
NODE_371_length_566_cov_4.964775	566	27337	48.2986	11.4628
NODE_372_length_566_cov_3.765166	566	18100	31.9788	7.1963
NODE_373_length_556_cov_14.500998	556	41816	75.2086	29.1527
NODE_374_length_548_cov_56.308316	548	181861	331.8631	91.3558
NODE_375_length_534_cov_4.202505	534	10407	19.4888	14.0478
NODE_376_length_528_cov_5.306554	528	15289	28.9564	15.2441
NODE_377_length_526_cov_12.169851	526	38127	72.4848	19.8908
NODE_378_length_515_cov_36.428261	515	113816	221.0019	105.0381

NODE_379_length_501_cov_3.966368	501	12725	25.3992	14.7027
NODE_380_length_482_cov_3.690867	482	11159	23.1515	6.7397
NODE_381_length_477_cov_5.829384	477	23439	49.1384	8.8872
NODE_382_length_469_cov_4.673913	469	11756	25.0661	7.7105
NODE_383_length_468_cov_4.389831	468	12189	26.0449	11.232
NODE_384_length_461_cov_7.596059	461	12326	26.7375	9.7797
NODE_385_length_442_cov_5.666667	442	13045	29.5136	10.1696
NODE_386_length_428_cov_7.512064	428	17796	41.5794	8.932
NODE_387_length_422_cov_12.275204	422	17535	41.5521	14.6616
NODE_388_length_419_cov_5.151099	419	9148	21.8329	6.5771
NODE_389_length_399_cov_2.956395	399	6887	17.2607	11.1967
NODE_390_length_393_cov_11.840237	393	25844	65.7608	17.1625
NODE_391_length_392_cov_6.065282	392	10353	26.4107	8.3319
NODE_392_length_389_cov_3.356287	389	5055	12.9949	5.6519
NODE_393_length_382_cov_5.311927	382	7499	19.6309	12.6299
NODE_394_length_372_cov_1.876972	372	7419	19.9435	15.0225
NODE_395_length_363_cov_4.535714	363	9482	26.1212	10.0449
NODE_396_length_352_cov_7.141414	352	11469	32.5824	12.8224
NODE_397_length_348_cov_9.361775	348	12728	36.5747	10.2899
NODE_398_length_341_cov_2.258741	341	7700	22.5806	11.6119
NODE_399_length_337_cov_6.549645	337	9065	26.8991	9.0924
NODE_400_length_330_cov_4.803636	330	5721	17.3364	7.7447
NODE_401_length_325_cov_9.925926	325	16686	51.3415	53.7048
NODE_402_length_318_cov_5.159696	318	7480	23.522	6.5294
NODE_403_length_300_cov_5.620408	300	6475	21.5833	9.6477
NODE_404_length_293_cov_4.810924	293	6833	23.3208	12.0102
NODE_405_length_292_cov_26.755274	292	45364	155.3562	49.9993
NODE_406_length_288_cov_17.858369	288	29536	102.5556	52.2578
NODE_407_length_279_cov_20.647321	279	36116	129.448	47.3175
NODE_408_length_277_cov_2.328829	277	3784	13.6606	4.9467
NODE_409_length_268_cov_6.549296	268	13144	49.0448	16.301
NODE_410_length_264_cov_3.306220	264	2070	7.8409	3.181
NODE_411_length_263_cov_19.615385	263	18218	69.27	25.5164
NODE_412_length_263_cov_2.759615	263	4415	16.7871	9.0881
NODE_413_length_255_cov_4.415000	255	6318	24.7765	11.1289
NODE_414_length_254_cov_7.130653	254	7957	31.3268	11.6436
NODE_415_length_253_cov_4.989899	253	6053	23.9249	7.4201

NODE_416_length_244_cov_9.544974	244	9715	39.8156	8.1494
NODE_417_length_244_cov_1.576720	244	603	2.4713	0.8512
NODE_418_length_243_cov_4.765957	243	6679	27.4856	12.0975
NODE_419_length_241_cov_5.784946	241	5445	22.5934	10.6272
NODE_420_length_236_cov_7.535912	236	6002	25.4322	8.2887
NODE_421_length_233_cov_7.095506	233	8010	34.3777	15.8707
NODE_422_length_232_cov_1.265537	232	2255	9.7198	4.0219
NODE_423_length_225_cov_22.664706	225	25993	115.5244	49.7536
NODE_424_length_224_cov_4.840237	224	11174	49.8839	10.7743
NODE_425_length_218_cov_8.331288	218	2296	10.5321	4.4476
NODE_426_length_218_cov_4.539877	218	3826	17.5505	6.0046
NODE_427_length_215_cov_2.968750	215	2933	13.6419	7.3089
NODE_428_length_214_cov_3.842767	214	7243	33.8458	7.1806
NODE_429_length_211_cov_5.602564	211	0	0	0
NODE_430_length_209_cov_6.071429	209	3880	18.5646	7.1643
NODE_431_length_206_cov_6.066225	206	3883	18.8495	8.9047
NODE_432_length_202_cov_6.306122	202	9456	46.8119	21.9911
NODE_433_length_201_cov_3.534247	201	4609	22.9303	8.7489
NODE_434_length_200_cov_15.317241	200	15252	76.26	24.8477
NODE_435_length_197_cov_7.345070	197	11664	59.2081	23.638
NODE_436_length_192_cov_7.343066	192	6369	33.1719	11.7272
NODE_437_length_192_cov_6.262774	192	5217	27.1719	8.8645
NODE_438_length_190_cov_10.281481	190	8768	46.1474	19.5971
NODE_439_length_188_cov_4.654135	188	2946	15.6702	5.4606
NODE_440_length_178_cov_6.276423	178	3118	17.5169	9.1026
NODE_441_length_173_cov_10.288136	173	5978	34.5549	9.5925
NODE_442_length_173_cov_9.355932	173	3075	17.7746	7.3525
NODE_443_length_172_cov_4.008547	172	3412	19.8372	4.9506
NODE_444_length_171_cov_11.706897	171	1676	9.8012	3.8626
NODE_445_length_170_cov_9.452174	170	0	0	0
NODE_446_length_169_cov_7.298246	169	5135	30.3846	9.3277
NODE_447_length_169_cov_4.868421	169	7613	45.0473	11.1019
NODE_448_length_169_cov_4.833333	169	5681	33.6154	10.5157
NODE_449_length_168_cov_3.256637	168	4136	24.619	6.5998
NODE_450_length_166_cov_5.630631	166	1975	11.8976	4.2859
NODE_451_length_164_cov_11.183486	164	2391	14.5793	4.9891
NODE_452_length_163_cov_11.657407	163	6622	40.6258	12.1186

NODE_453_length_161_cov_9.273585	161	2949	18.3168	4.0912
NODE_454_length_161_cov_7.443396	161	4108	25.5155	7.9377
NODE_455_length_160_cov_7.809524	160	0	0	0
NODE_456_length_160_cov_4.428571	160	3117	19.4812	9.5636
NODE_457_length_159_cov_6.971154	159	1895	11.9182	4.6567
NODE_458_length_158_cov_182.223301	158	88329	559.0443	161.0043
NODE_459_length_158_cov_10.611650	158	5285	33.4494	11.8378
NODE_460_length_158_cov_4.417476	158	3616	22.8861	6.9309
NODE_461_length_157_cov_7.676471	157	5339	34.0064	11.634
NODE_462_length_156_cov_10.158416	156	1793	11.4936	4.5791
NODE_463_length_155_cov_5.230000	155	2247	14.4968	4.4698
NODE_464_length_152_cov_15.618557	152	8442	55.5395	16.3018
NODE_465_length_152_cov_15.164948	152	2930	19.2763	5.7995
NODE_466_length_152_cov_12.783505	152	10146	66.75	20.5036
NODE_467_length_152_cov_5.175258	152	5901	38.8224	11.331
NODE_468_length_151_cov_8.197917	151	0	0	0
NODE_469_length_149_cov_34.691489	149	10394	69.7584	25.0346
NODE_470_length_147_cov_29.293478	147	8433	57.3673	15.1281
NODE_471_length_147_cov_22.152174	147	11351	77.2177	19.888
NODE_472_length_145_cov_12.111111	145	2626	18.1103	5.8228
NODE_473_length_145_cov_6.533333	145	3750	25.8621	8.4842
NODE_474_length_145_cov_5.622222	145	4982	34.3586	9.4502
NODE_475_length_138_cov_5.771084	138	3551	25.7319	5.8267
NODE_476_length_135_cov_5.762500	135	2524	18.6963	5.1658
NODE_477_length_130_cov_6.933333	130	1405	10.8077	2.646
NODE_478_length_129_cov_6.756757	129	414	3.2093	0.9538
NODE_479_length_127_cov_10.958333	127	3016	23.748	7.1771
NODE_480_length_124_cov_6.159420	124	2732	22.0323	4.7957
NODE_481_length_123_cov_9.735294	123	3243	26.3659	5.0433
NODE_482_length_123_cov_7.191176	123	711	5.7805	1.8937
NODE_483_length_122_cov_24.149254	122	1014	8.3115	2.4127
NODE_484_length_120_cov_24.538462	120	4278	35.65	4.6073
NODE_485_length_119_cov_5.703125	119	2836	23.8319	5.8831
NODE_486_length_119_cov_5.406250	119	2395	20.1261	5.3304
NODE_487_length_116_cov_4.114754	116	3368	29.0345	7.7615
NODE_488_length_115_cov_24.733333	115	4611	40.0957	6.2457
NODE_489_length_114_cov_9.033898	114	1218	10.6842	1.997

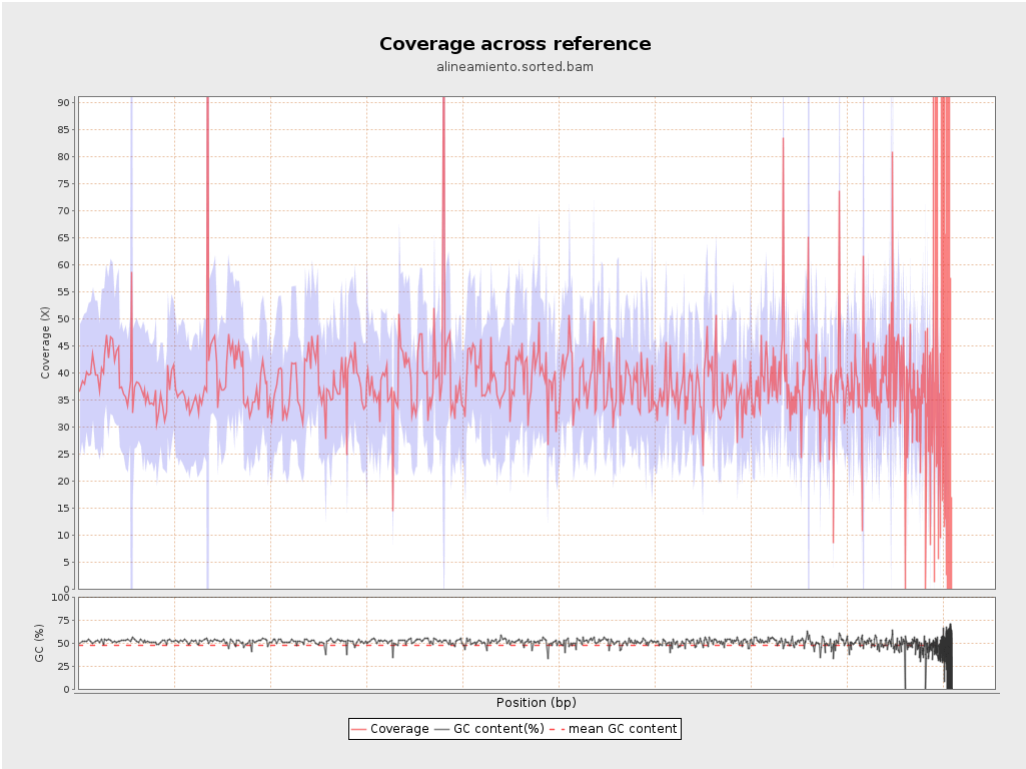
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NODE_491_length_114_cov_7.305085	114	1161	10.1842	1.4342
NODE_492_length_114_cov_5.576271	114	2979	26.1316	4.6988
NODE_493_length_112_cov_12.017544	112	5159	46.0625	6.1497
NODE_494_length_112_cov_4.877193	112	196	1.75	1.0133
NODE_495_length_111_cov_122.446429	111	29751	268.027	36.2806
NODE_496_length_111_cov_78.392857	111	25324	228.1441	31.075
NODE_497_length_111_cov_29.517857	111	4537	40.8739	5.0442
NODE_498_length_111_cov_28.750000	111	9250	83.3333	13.2911
NODE_499_length_111_cov_26.303571	111	8363	75.3423	10.9888
NODE_500_length_111_cov_25.089286	111	8676	78.1622	10.032
NODE_501_length_111_cov_16.339286	111	3758	33.8559	4.3243
NODE_502_length_111_cov_15.839286	111	333	3	0.7827
NODE_503_length_111_cov_13.428571	111	55	0.4955	0.5
NODE_504_length_111_cov_13.017857	111	3341	30.0991	3.7632
NODE_505_length_111_cov_12.714286	111	3051	27.4865	3.9109
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	3679	33.1441	4.4151
NODE_509_length_111_cov_10.482143	111	0	0	0
NODE_510_length_111_cov_10.017857	111	148	1.3333	1.4036
NODE_511_length_111_cov_9.017857	111	1717	15.4685	1.9992
NODE_512_length_111_cov_8.410714	111	1628	14.6667	3.9486
NODE_513_length_111_cov_8.303571	111	1465	13.1982	2.7667
NODE_514_length_111_cov_7.696429	111	0	0	0
NODE_515_length_111_cov_7.660714	111	2120	19.0991	2.0043
NODE_516_length_111_cov_7.446429	111	316	2.8468	0.4492
NODE_517_length_111_cov_7.357143	111	2736	24.6486	3.0303
NODE_518_length_111_cov_7.285714	111	2579	23.2342	3.5386
NODE_519_length_111_cov_7.267857	111	2724	24.5405	2.7989
NODE_520_length_111_cov_6.714286	111	1485	13.3784	2.2221
NODE_521_length_111_cov_6.607143	111	804	7.2432	1.4595
NODE_522_length_111_cov_6.482143	111	3362	30.2883	4.483
NODE_523_length_111_cov_6.446429	111	286	2.5766	1.1897
NODE_524_length_111_cov_6.178571	111	0	0	0
NODE_525_length_111_cov_6.035714	111	1122	10.1081	1.3244
NODE_526_length_111_cov_5.946429	111	207	1.8649	1.4045

NODE_527_length_111_cov_5.750000	111	1239	11.1622	1.392
NODE_528_length_111_cov_5.678571	111	2692	24.2523	2.5129
NODE_529_length_111_cov_4.696429	111	648	5.8378	0.6784
NODE_530_length_111_cov_4.392857	111	476	4.2883	1.2762
NODE_531_length_111_cov_4.357143	111	1242	11.1892	1.8085
NODE_532_length_111_cov_4.107143	111	788	7.0991	1.5709
NODE_533_length_111_cov_3.910714	111	729	6.5676	1.462
NODE_534_length_111_cov_3.446429	111	0	0	0
NODE_535_length_111_cov_3.142857	111	968	8.7207	1.6558
NODE_536_length_110_cov_18.600000	110	2123	19.3	3.1667
NODE_537_length_110_cov_10.709091	110	2552	23.2	3.7678
NODE_538_length_109_cov_6.129630	109	2945	27.0183	6.4424
NODE_539_length_109_cov_6.000000	109	1061	9.7339	2.489
NODE_540_length_108_cov_29.509434	108	6223	57.6204	7.1566
NODE_541_length_108_cov_9.188679	108	597	5.5278	0.8762
NODE_542_length_108_cov_7.339623	108	374	3.463	0.7506
NODE_543_length_107_cov_6.019231	107	1034	9.6636	1.1116
NODE_544_length_106_cov_5.980392	106	914	8.6226	9.1316
NODE_545_length_106_cov_4.313725	106	1469	13.8585	2.1563
NODE_546_length_105_cov_5.540000	105	42	0.4	0.4899
NODE_547_length_103_cov_11.270833	103	4571	44.3786	3.7446
NODE_548_length_103_cov_7.625000	103	2099	20.3786	1.3732
NODE_549_length_103_cov_3.104167	103	1488	14.4466	0.7972
NODE_550_length_101_cov_20.500000	101	4344	43.0099	2.3777
NODE_551_length_100_cov_14.488889	100	2072	20.72	1.0303
NODE_552_length_99_cov_9.886364	99	1535	15.5051	0.8333
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	1350	14.2105	0.6472
NODE_556_length_95_cov_3.475000	95	3008	31.6632	2.598
NODE_557_length_94_cov_21.153846	94	4837	51.4574	8.9664
NODE_558_length_91_cov_7.722222	91	0	0	0
NODE_559_length_88_cov_130.000000	88	180	2.0455	1.1669
NODE_560_length_88_cov_79.606061	88	310	3.5227	2.0448
NODE_561_length_88_cov_6.545455	88	227	2.5795	2.4155
NODE_562_length_88_cov_4.666667	88	285	3.2386	1.4693
NODE_563_length_86_cov_13.064516	86	89	1.0349	0.9207

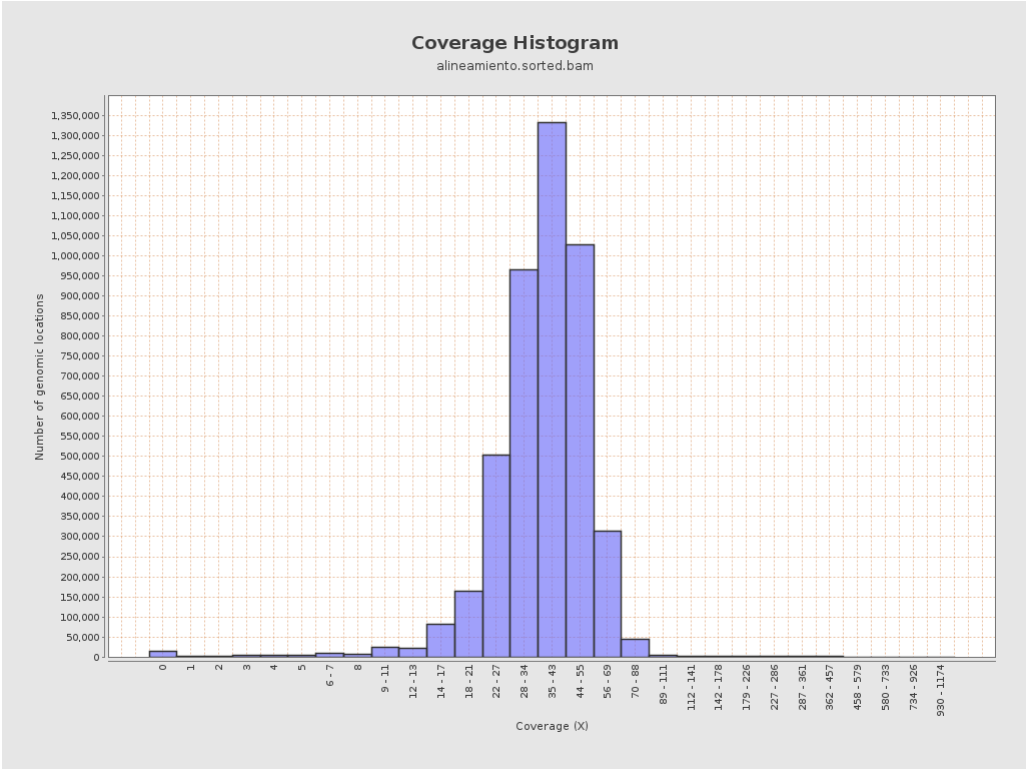
NODE_564_length_86_cov_10.064516	86	379	4.407	1.3501
NODE_565_length_86_cov_7.258065	86	33	0.3837	0.4863
NODE_566_length_86_cov_4.193548	86	0	0	0
NODE_567_length_85_cov_6.566667	85	73	0.8588	0.3482
NODE_568_length_85_cov_5.833333	85	241	2.8353	0.3709
NODE_569_length_83_cov_16.750000	83	1027	12.3735	3.1612
NODE_570_length_81_cov_5.730769	81	0	0	0
NODE_571_length_80_cov_26.200000	80	65	0.8125	0.3903
NODE_572_length_80_cov_5.240000	80	120	1.5	0.5916
NODE_573_length_79_cov_6.833333	79	493	6.2405	1.046
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	821	10.5256	0.8122
NODE_578_length_78_cov_13.956522	78	0	0	0
NODE_579_length_77_cov_6.318182	77	0	0	0
NODE_580_length_76_cov_16.761905	76	851	11.1974	0.6493
NODE_581_length_75_cov_11.450000	75	0	0	0
NODE_582_length_75_cov_10.600000	75	88	1.1733	0.885
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	195	2.8676	0.3389
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	40	0.597	0.4905
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	0	0	0
NODE_599_length_64_cov_12.000000	64	0	0	0
NODE_600_length_63_cov_20.500000	63	706	11.2063	1.9531

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	80	1.3333	0.8692
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	0	0	0
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
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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	950	16.9643	5.9939
NODE_621_length_56_cov_16.000000	56	0	0	0
NODE_622_length_56_cov_15.000000	56	0	0	0

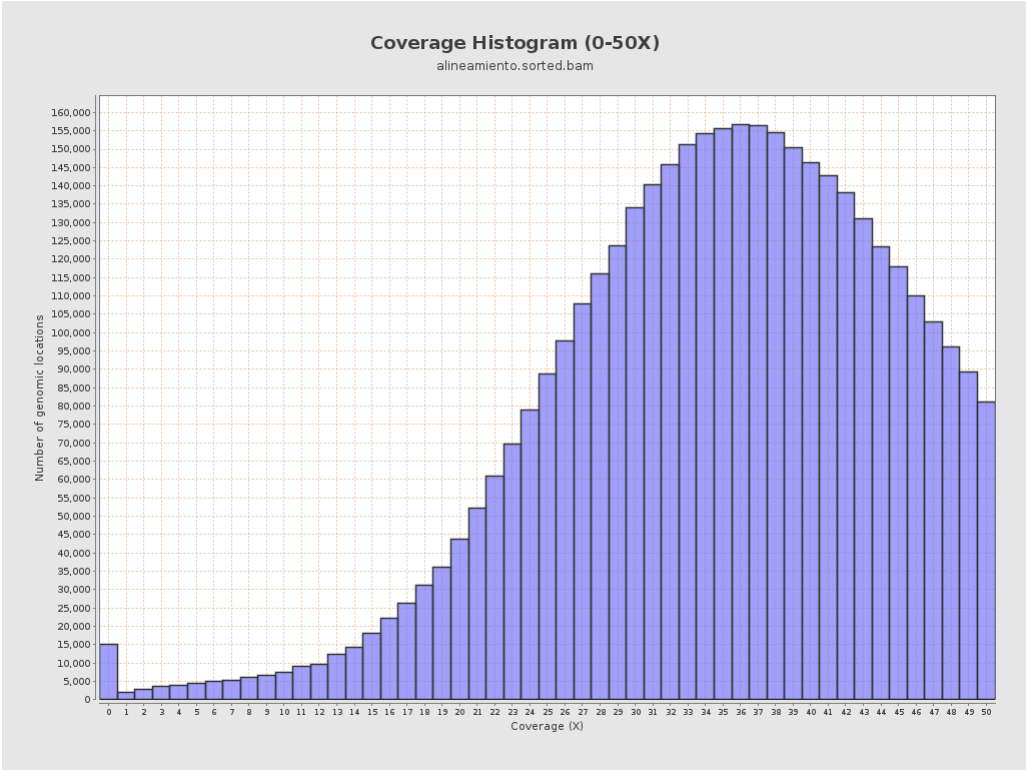
Coverage across reference



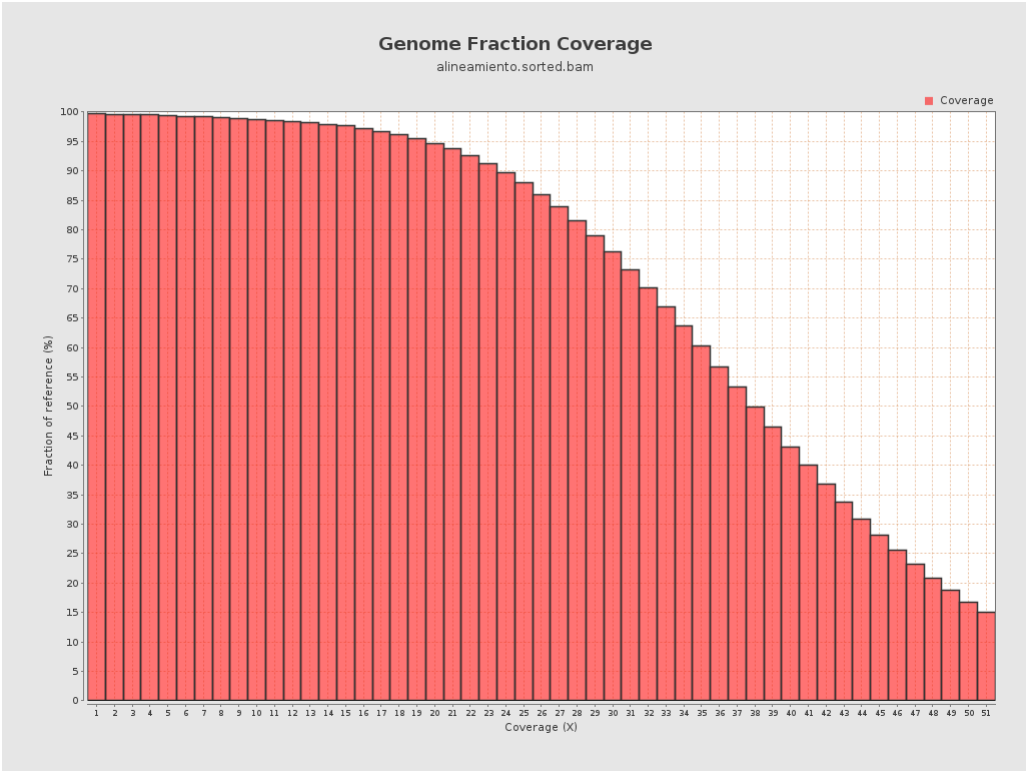
Coverage Histogram



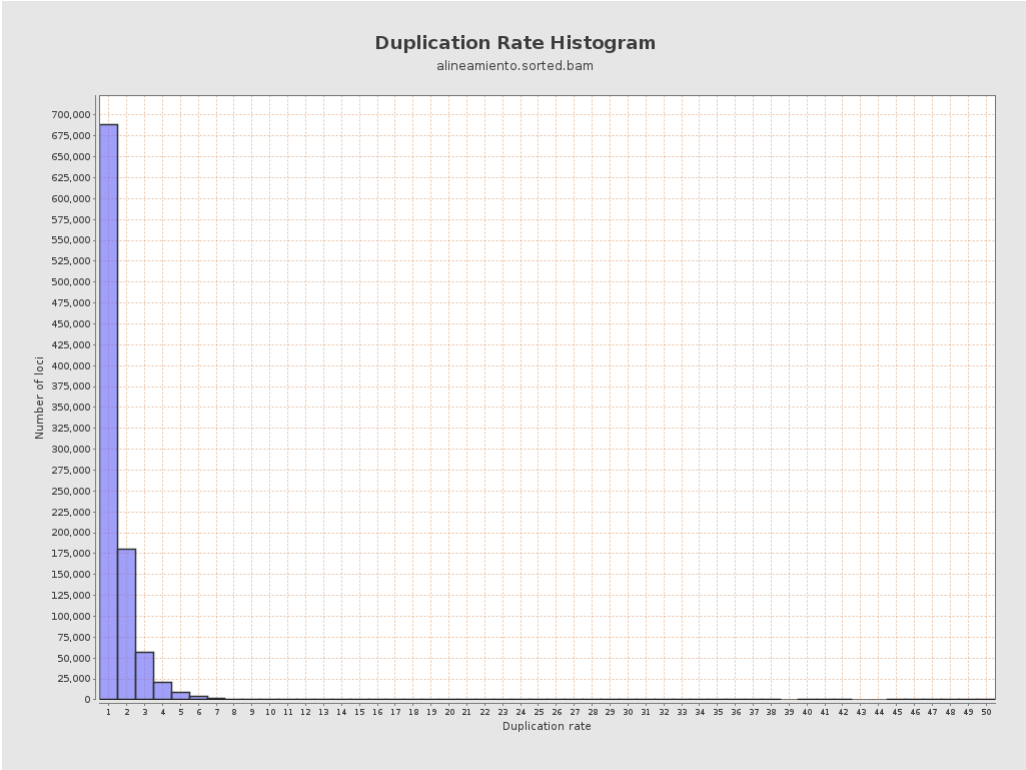
Coverage Histogram (0-50X)



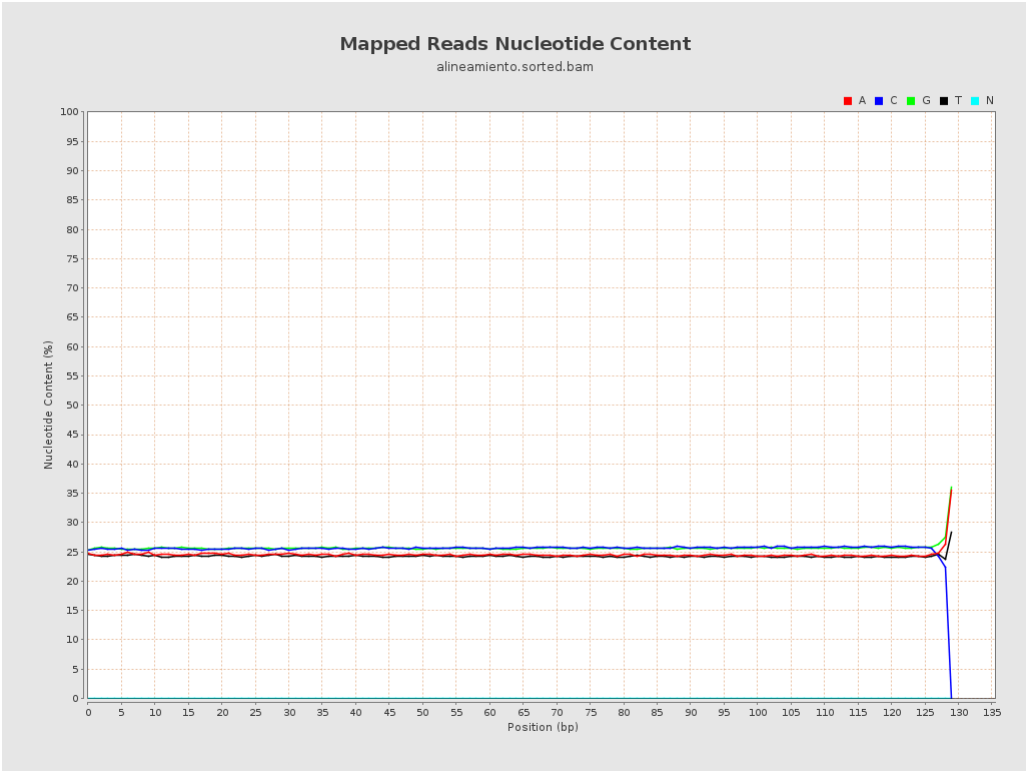
Genome Fraction Coverage



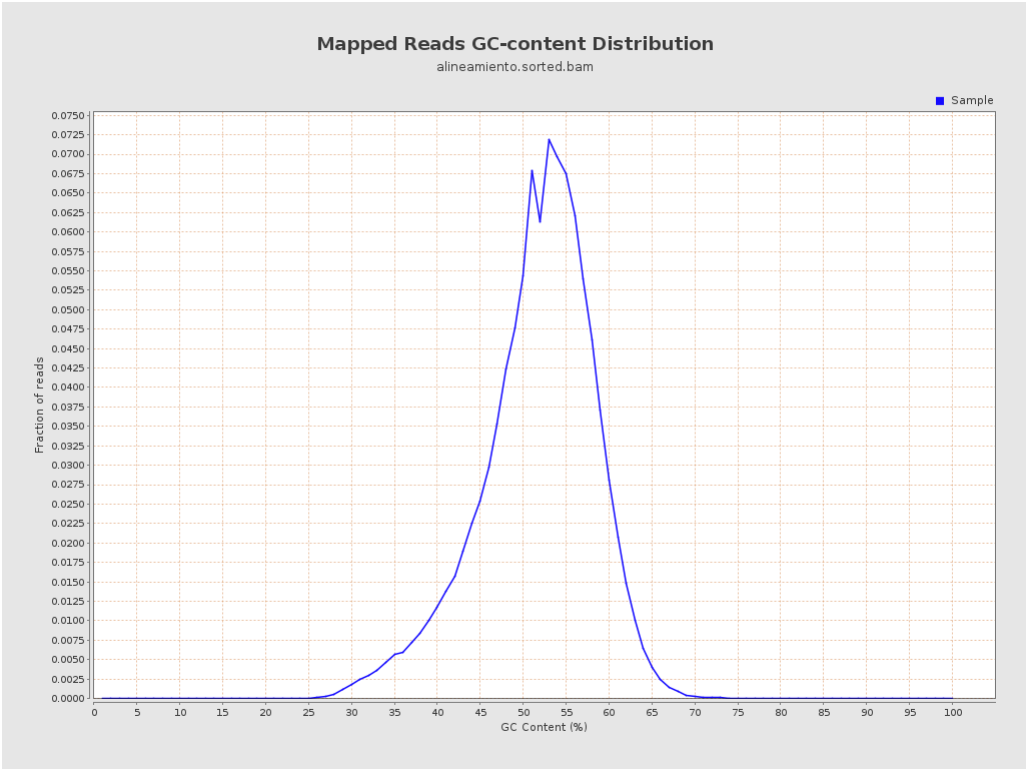
Duplication Rate Histogram



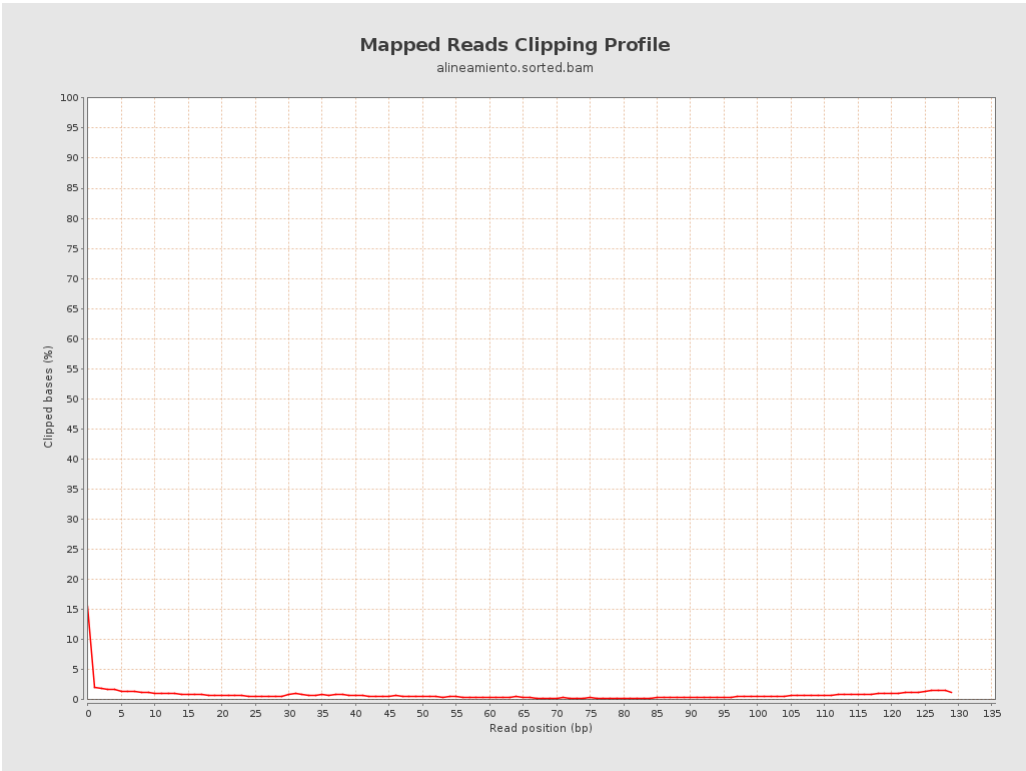
Mapped Reads Nucleotide Content



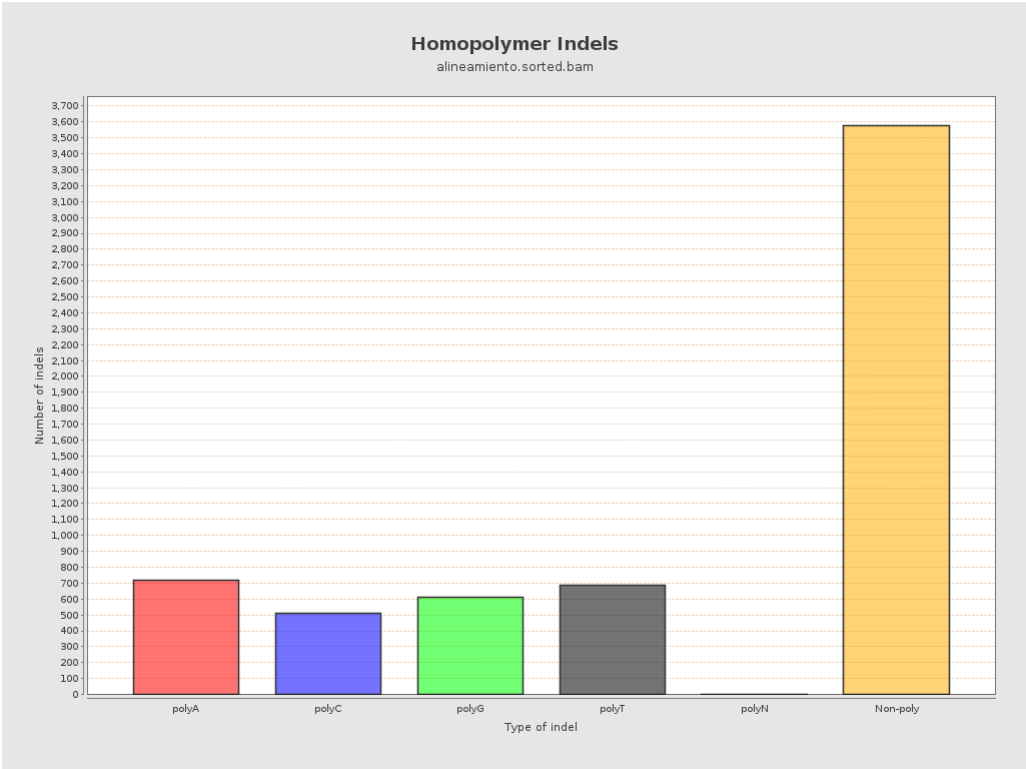
Mapped Reads GC-content Distribution



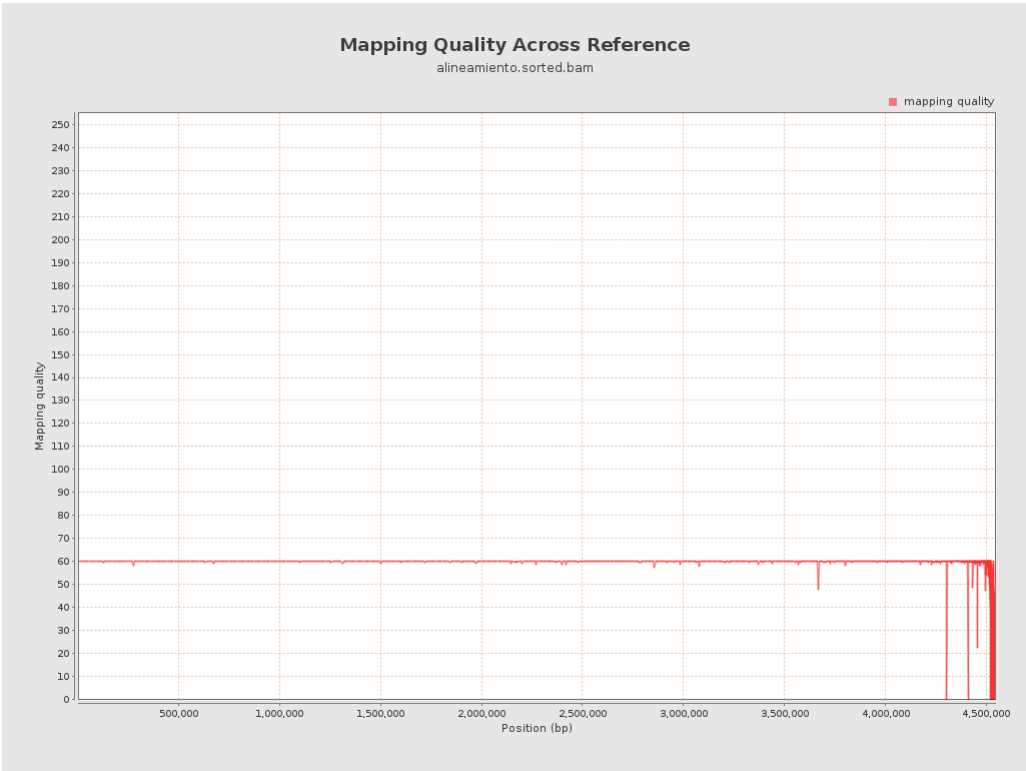
Mapped Reads Clipping Profile



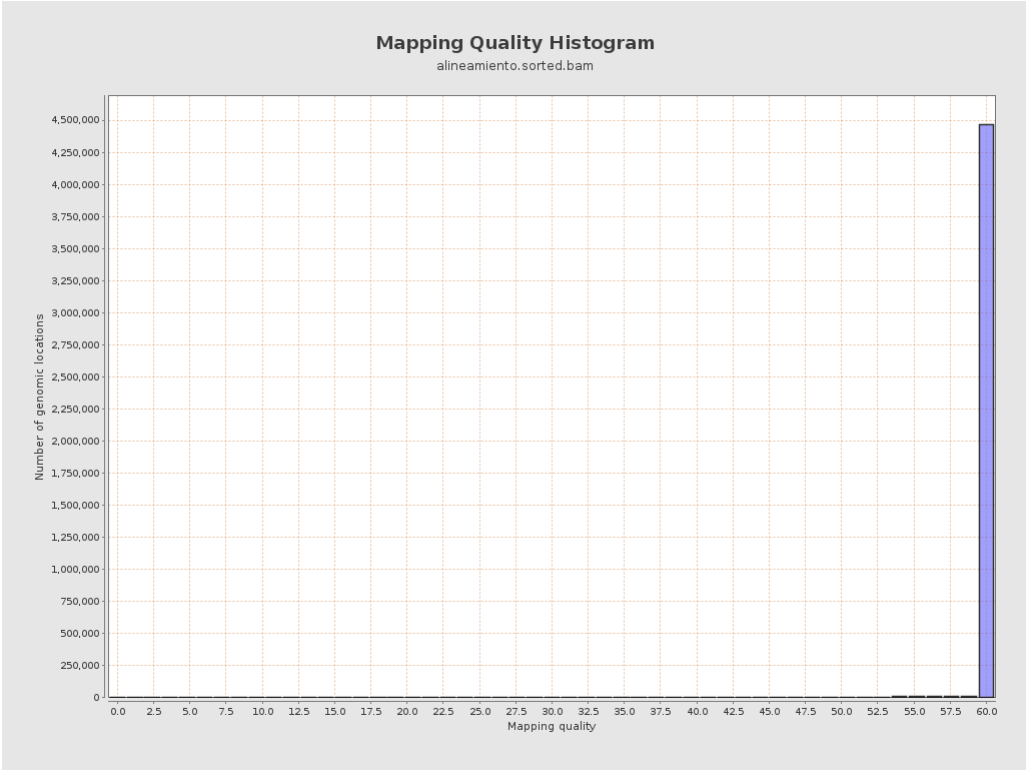
Homopolymer Indels



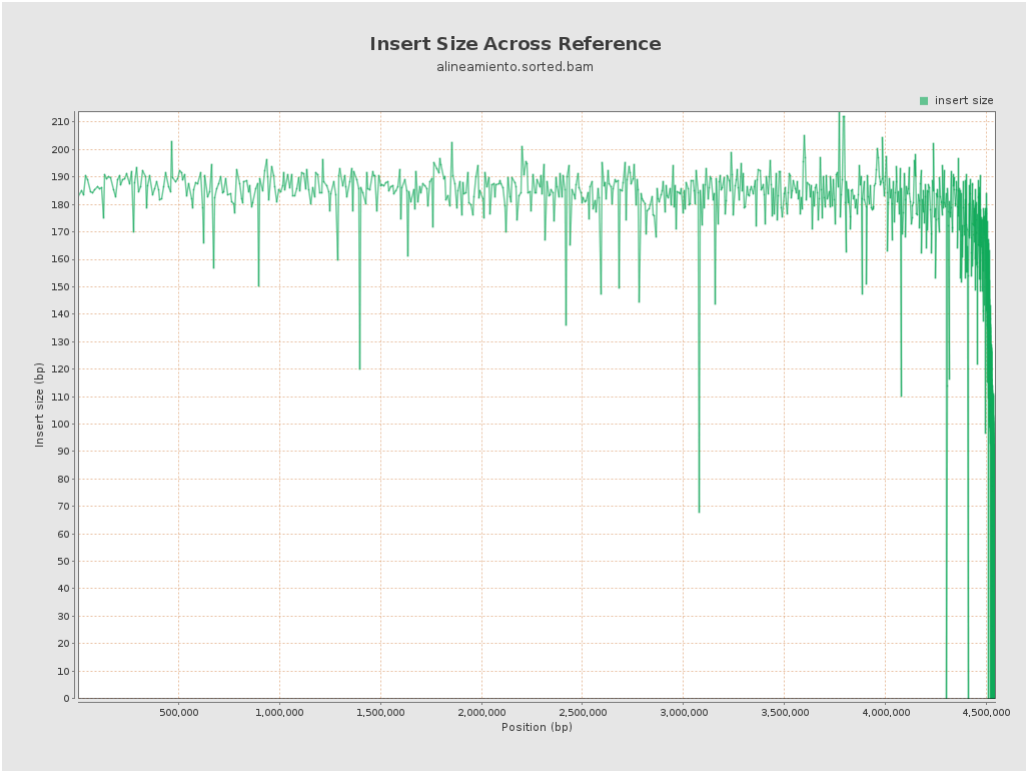
Mapping Quality Across Reference



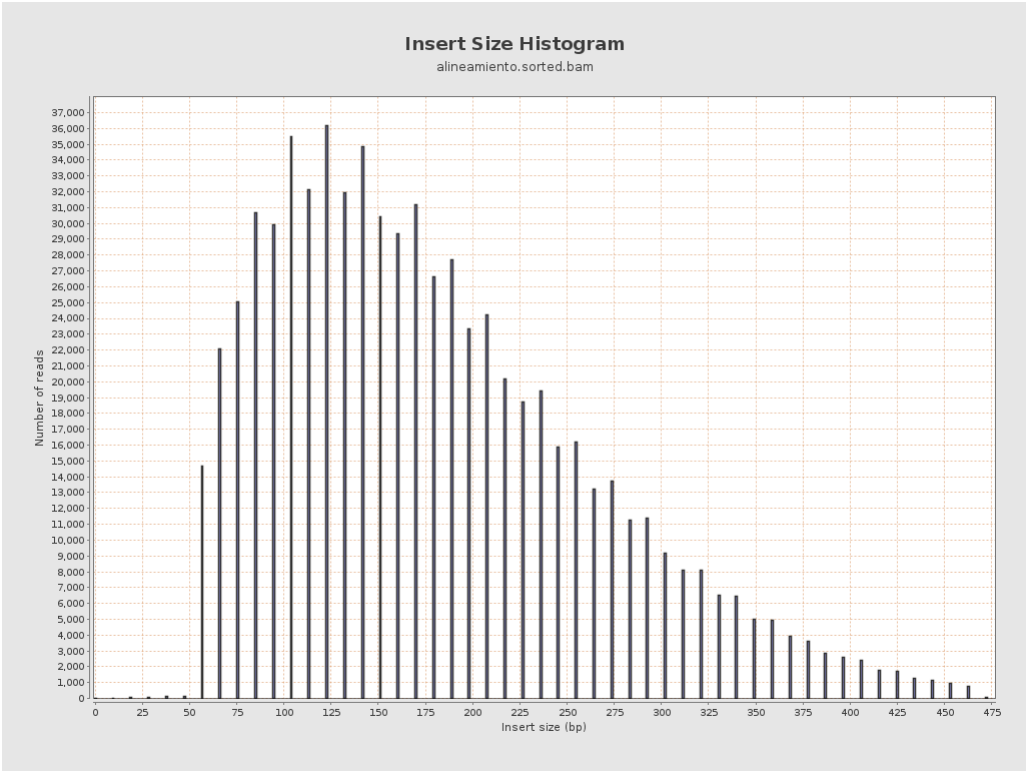
Mapping Quality Histogram



Insert Size Across Reference



Insert Size Histogram



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