

Qualimap Analysis Results

BAM QC analysis

Generated by Qualimap v.2.3

2024/02/25 15:02:43

1. Input data & parameters

1.1. QualiMap command line

```
qualimap bamqc -bam E16_retina_rep1_Aligned.sortedByCoord.out.bam -nw 400 -hm 3
```

1.2. Alignment

Command line:	<pre>/athena/angsd/scratch/mef3005/share/envs/angsd/bin/STAR-avx2 -- runMode alignReads -- runThreadN 8 --genomeDir ../genome/galGal6_STAR_Index -- readFilesIn ../fastq/SRR1804235_1.fastq.gz ../fastq/SRR1804235_2.fastq.gz -- readFilesCommand zcat -- outFileNamePrefix E16_retina_rep1_ --outSAMtype BAM SortedByCoordinate -- outSAMattributes NH HI AS nM MD --outFilterType BySJout -- outFilterMultimapNmax 20</pre>
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	STAR (2.7.11a)
Analysis date:	Sun Feb 25 15:02:41 EST 2024
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	E16_retina_rep1_Aligned.sortedByC

oord.out.bam

2. Summary

2.1. Globals

Reference size	1,065,365,425
Number of reads	67,674,970
Mapped reads	67,674,970 / 100%
Unmapped reads	0 / 0%
Mapped paired reads	67,674,970 / 100%
Mapped reads, first in pair	33,844,552 / 50.01%
Mapped reads, second in pair	33,830,418 / 49.99%
Mapped reads, both in pair	67,660,796 / 99.98%
Mapped reads, singletons	14,174 / 0.02%
Secondary alignments	1,643,744
Read min/max/mean length	32 / 150 / 149.1
Duplicated reads (estimated)	49,929,315 / 73.78%
Duplication rate	51.53%
Clipped reads	7,226,157 / 10.68%

2.2. ACGT Content

Number/percentage of A's	2,559,968,550 / 26.32%
Number/percentage of C's	2,301,871,696 / 23.67%
Number/percentage of T's	2,534,853,144 / 26.06%
Number/percentage of G's	2,328,174,750 / 23.94%
Number/percentage of N's	1,249,964 / 0.01%
GC Percentage	47.6%

2.3. Coverage

Mean	80.2349
Standard Deviation	225.8893

2.4. Mapping Quality

Mean Mapping Quality	26.26
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2.5. Insert size

Mean	1,922.67
Standard Deviation	8,846.92
P25/Median/P75	190 / 292 / 1,243

2.6. Mismatches and indels

Mismatches	72,743,147
Insertions	1,474,884
Mapped reads with at least one insertion	2.12%
Deletions	1,087,976
Mapped reads with at least one deletion	1.58%
Homopolymer indels	46.2%

2.7. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
chr1	197608386	14669466069	74.235	339.8679

chr10	21119840	1922337343	91.0205	190.486
chr11	20200042	1618480512	80.1226	134.9422
chr12	20387278	1803732556	88.4734	136.0164
chr13	19166714	2191624798	114.3454	196.5141
chr13_NW_0 20109755v1_ random	2157	0	0	0
chr14	16219308	1632461929	100.6493	235.8751
chr14_NW_0 20109756v1_ random	765	0	0	0
chr15	13062184	1320803714	101.1166	198.3655
chr15_NW_0 20109757v1_ random	2034	0	0	0
chr16	2844601	375771734	132.1	999.447
chr16_NW_0 20109758v1_ random	149503	687850	4.6009	6.0935
chr17	10762512	1139647596	105.8905	209.8084
chr18	11373140	1202167154	105.7023	288.9382
chr19	10323212	1420283011	137.5815	309.7129
chr19_NW_0 20109759v1_ random	1131	0	0	0
chr1_NW_02 0109737v1_r andom	1765	0	0	0
chr1_NW_02	2384	1136	0.4765	0.8204

0109738v1_r andom				
chr1_NW_02 0109739v1_r andom	4675	0	0	0
chr1_NW_02 0109740v1_r andom	5861	0	0	0
chr1_NW_02 0109741v1_r andom	10869	13559	1.2475	2.365
chr1_NW_02 0109742v1_r andom	21511	0	0	0
chr1_NW_02 0109743v1_r andom	22289	0	0	0
chr2	149682049	11574616987	77.328	140.4403
chr20	13897287	1487266608	107.0185	158.5183
chr21	6844979	1340972615	195.906	512.1683
chr22	5459462	548413638	100.452	241.982
chr22_NW_0 20109760v1_ random	918	0	0	0
chr23	6149580	688522860	111.9626	358.063
chr23_NW_0 20109761v1_ random	322	0	0	0
chr23_NW_0 20109762v1_ random	1264	0	0	0

chr23_NW_0 20109763v1_ random	1662	0	0	0
chr23_NW_0 20109764v1_ random	15003	0	0	0
chr23_NW_0 20109765v1_ random	16157	0	0	0
chr23_NW_0 20109766v1_ random	18922	0	0	0
chr24	6491222	949592939	146.2888	248.4441
chr25	3980610	345386273	86.7672	157.0792
chr25_NW_0 20109767v1_ random	1884	0	0	0
chr26	6055710	585157144	96.629	210.8811
chr27	8080432	700609456	86.7045	236.8111
chr28	5116882	862174748	168.4961	358.6788
chr28_NW_0 20109768v1_ random	1519	8927	5.8769	5.9075
chr3	110838418	8084617501	72.9406	170.3416
chr30	1818525	318805547	175.31	220.142
chr31	6153034	144349377	23.4599	47.9764
chr31_NW_0 20109769v1_ random	9481	300	0.0316	0.2401

chr31_NW_0 20109770v1_ random	11305	866	0.0766	0.4056
chr31_NW_0 20109771v1_ random	11340	0	0	0
chr32	725831	126499604	174.2824	247.7044
chr33	7821666	530956475	67.8828	379.5637
chr33_NW_0 20109772v1_ random	182	0	0	0
chr3_NW_02 0109744v1_r andom	509	0	0	0
chr3_NW_02 0109745v1_r andom	1783	0	0	0
chr3_NW_02 0109746v1_r andom	6272	53942	8.6004	31.5459
chr3_NW_02 0109747v1_r andom	7246	137546	18.9823	19.5072
chr4	91315245	7203775382	78.8891	160.2569
chr5	59809098	5674321587	94.8739	180.4093
chr6	36374701	2557543806	70.3111	111.444
chr6_NW_02 0109748v1_r andom	4087	3351	0.8199	1.3087
chr6_NW_02 0109749v1_r	4448	0	0	0

andom				
chr6_NW_02 0109750v1_r andom	5224	1609	0.308	1.0827
chr6_NW_02 0109751v1_r andom	10724	597	0.0557	0.3194
chr6_NW_02 0109752v1_r andom	10928	0	0	0
chr6_NW_02 0109753v1_r andom	18845	3497	0.1856	0.8364
chr7	36742308	2861113277	77.8697	103.2441
chr8	30219446	2568998240	85.0114	136.753
chr9	24153086	2193685571	90.8242	154.4278
chr9_NW_02 0109754v1_r andom	27963	0	0	0
chrM	16775	106783328	6,365.6231	7,809.9744
chrUn_NW_0 20109830v1	27104	0	0	0
chrUn_NW_0 20109831v1	27130	1743	0.0642	0.4476
chrUn_NW_0 20109832v1	27830	285	0.0102	0.1424
chrUn_NW_0 20109833v1	28243	242529	8.5872	10.5588
chrUn_NW_0 20109834v1	29697	2525	0.085	0.4335

chrUn_NW_0 20109835v1	30157	18209	0.6038	0.7192
chrUn_NW_0 20109836v1	30225	0	0	0
chrUn_NW_0 20109837v1	30439	0	0	0
chrUn_NW_0 20109838v1	30818	0	0	0
chrUn_NW_0 20109839v1	33030	2906	0.088	0.1842
chrUn_NW_0 20109840v1	33083	2653	0.0802	0.5502
chrUn_NW_0 20109841v1	33731	297	0.0088	0.0934
chrUn_NW_0 20109842v1	33531	0	0	0
chrUn_NW_0 20109843v1	33802	564532	16.7011	17.6936
chrUn_NW_0 20109844v1	87	0	0	0
chrUn_NW_0 20109845v1	246	0	0	0
chrUn_NW_0 20109846v1	195	0	0	0
chrUn_NW_0 20109847v1	345	0	0	0
chrUn_NW_0 20109848v1	342	0	0	0
chrUn_NW_0 20109849v1	579	283	0.4888	0.8504

chrUn_NW_0 20109850v1	555	0	0	0
chrUn_NW_0 20109851v1	623	0	0	0
chrUn_NW_0 20109852v1	597	0	0	0
chrUn_NW_0 20109853v1	676	0	0	0
chrUn_NW_0 20109854v1	644	0	0	0
chrUn_NW_0 20109855v1	678	4666	6.882	12.1095
chrUn_NW_0 20109856v1	677	395	0.5835	0.8823
chrUn_NW_0 20109857v1	806	0	0	0
chrUn_NW_0 20109858v1	791	0	0	0
chrUn_NW_0 20109859v1	950	51103	53.7926	59.8167
chrUn_NW_0 20109860v1	848	0	0	0
chrUn_NW_0 20109861v1	966	148	0.1532	0.7346
chrUn_NW_0 20109862v1	955	0	0	0
chrUn_NW_0 20109863v1	1115	0	0	0
chrUn_NW_0 20109864v1	1086	0	0	0

chrUn_NW_0 20109865v1	1173	0	0	0
chrUn_NW_0 20109866v1	1167	0	0	0
chrUn_NW_0 20109867v1	1381	0	0	0
chrUn_NW_0 20109868v1	1367	4888	3.5757	6.5225
chrUn_NW_0 20109869v1	1453	0	0	0
chrUn_NW_0 20109870v1	1394	152	0.109	0.4541
chrUn_NW_0 20109871v1	1579	0	0	0
chrUn_NW_0 20109872v1	1547	0	0	0
chrUn_NW_0 20109873v1	1643	0	0	0
chrUn_NW_0 20109874v1	1589	0	0	0
chrUn_NW_0 20109875v1	1748	0	0	0
chrUn_NW_0 20109876v1	1664	0	0	0
chrUn_NW_0 20109877v1	1756	0	0	0
chrUn_NW_0 20109878v1	1752	0	0	0
chrUn_NW_0 20109879v1	1800	15718	8.7322	26.811

chrUn_NW_0 20109880v1	1782	0	0	0
chrUn_NW_0 20109881v1	1840	0	0	0
chrUn_NW_0 20109882v1	1834	0	0	0
chrUn_NW_0 20109883v1	1935	0	0	0
chrUn_NW_0 20109884v1	1908	0	0	0
chrUn_NW_0 20109885v1	2071	15914	7.6842	7.4432
chrUn_NW_0 20109886v1	2033	11388	5.6016	23.1626
chrUn_NW_0 20109887v1	2149	0	0	0
chrUn_NW_0 20109888v1	2087	0	0	0
chrUn_NW_0 20109889v1	2260	534	0.2363	1.1331
chrUn_NW_0 20109890v1	2214	0	0	0
chrUn_NW_0 20109891v1	2308	182	0.0789	0.3881
chrUn_NW_0 20109892v1	2262	0	0	0
chrUn_NW_0 20109893v1	2462	0	0	0
chrUn_NW_0 20109894v1	2402	0	0	0

chrUn_NW_0 20109895v1	2520	0	0	0
chrUn_NW_0 20109896v1	2481	0	0	0
chrUn_NW_0 20109897v1	2566	0	0	0
chrUn_NW_0 20109898v1	2555	0	0	0
chrUn_NW_0 20109899v1	2599	0	0	0
chrUn_NW_0 20109900v1	2568	0	0	0
chrUn_NW_0 20109901v1	2615	0	0	0
chrUn_NW_0 20109902v1	2610	0	0	0
chrUn_NW_0 20109903v1	2758	0	0	0
chrUn_NW_0 20109904v1	2663	0	0	0
chrUn_NW_0 20109905v1	2898	0	0	0
chrUn_NW_0 20109906v1	2883	0	0	0
chrUn_NW_0 20109907v1	2928	2132	0.7281	2.7411
chrUn_NW_0 20109908v1	2902	246	0.0848	0.2785
chrUn_NW_0 20109909v1	2979	0	0	0

chrUn_NW_0 20109910v1	2948	0	0	0
chrUn_NW_0 20109911v1	2991	48637	16.2611	15.9438
chrUn_NW_0 20109912v1	2985	7801	2.6134	11.7159
chrUn_NW_0 20109913v1	3346	9881	2.9531	4.3976
chrUn_NW_0 20109914v1	3019	0	0	0
chrUn_NW_0 20109915v1	3504	0	0	0
chrUn_NW_0 20109916v1	3436	17714	5.1554	24.721
chrUn_NW_0 20109917v1	3531	0	0	0
chrUn_NW_0 20109918v1	3516	105831	30.0998	71.5321
chrUn_NW_0 20109919v1	3584	0	0	0
chrUn_NW_0 20109920v1	3581	0	0	0
chrUn_NW_0 20109921v1	3657	0	0	0
chrUn_NW_0 20109922v1	3647	0	0	0
chrUn_NW_0 20109923v1	3680	0	0	0
chrUn_NW_0 20109924v1	3660	0	0	0

chrUn_NW_0 20109925v1	3847	0	0	0
chrUn_NW_0 20109926v1	3687	0	0	0
chrUn_NW_0 20109927v1	3973	0	0	0
chrUn_NW_0 20109928v1	3863	0	0	0
chrUn_NW_0 20109929v1	4040	0	0	0
chrUn_NW_0 20109930v1	4037	42586	10.5489	14.261
chrUn_NW_0 20109931v1	4198	0	0	0
chrUn_NW_0 20109932v1	4154	0	0	0
chrUn_NW_0 20109933v1	4245	0	0	0
chrUn_NW_0 20109934v1	4206	0	0	0
chrUn_NW_0 20109935v1	4359	0	0	0
chrUn_NW_0 20109936v1	4266	0	0	0
chrUn_NW_0 20109937v1	4511	0	0	0
chrUn_NW_0 20109938v1	4451	30791	6.9178	6.3288
chrUn_NW_0 20109939v1	4621	0	0	0

chrUn_NW_0 20109940v1	4617	0	0	0
chrUn_NW_0 20109941v1	4685	0	0	0
chrUn_NW_0 20109942v1	4652	0	0	0
chrUn_NW_0 20109943v1	4766	0	0	0
chrUn_NW_0 20109944v1	4730	0	0	0
chrUn_NW_0 20109945v1	4808	0	0	0
chrUn_NW_0 20109946v1	4777	1467	0.3071	0.6291
chrUn_NW_0 20109947v1	5075	0	0	0
chrUn_NW_0 20109948v1	5044	0	0	0
chrUn_NW_0 20109949v1	5230	0	0	0
chrUn_NW_0 20109950v1	5199	0	0	0
chrUn_NW_0 20109951v1	5419	664331	122.5929	132.7899
chrUn_NW_0 20109952v1	5289	11920	2.2537	12.3539
chrUn_NW_0 20109953v1	5637	0	0	0
chrUn_NW_0 20109954v1	5521	0	0	0

chrUn_NW_0 20109955v1	5685	0	0	0
chrUn_NW_0 20109956v1	5662	760	0.1342	0.5872
chrUn_NW_0 20109957v1	5791	0	0	0
chrUn_NW_0 20109958v1	5694	0	0	0
chrUn_NW_0 20109959v1	6042	0	0	0
chrUn_NW_0 20109960v1	5955	0	0	0
chrUn_NW_0 20109961v1	6185	741	0.1198	0.5785
chrUn_NW_0 20109962v1	6066	0	0	0
chrUn_NW_0 20109963v1	6269	0	0	0
chrUn_NW_0 20109964v1	6243	18759	3.0048	4.5955
chrUn_NW_0 20109965v1	6324	0	0	0
chrUn_NW_0 20109966v1	6318	0	0	0
chrUn_NW_0 20109967v1	6378	74285	11.6471	62.9977
chrUn_NW_0 20109968v1	6349	0	0	0
chrUn_NW_0 20109969v1	6539	0	0	0

chrUn_NW_0 20109970v1	6414	0	0	0
chrUn_NW_0 20109971v1	6586	0	0	0
chrUn_NW_0 20109972v1	6564	0	0	0
chrUn_NW_0 20109973v1	6698	281	0.042	0.2537
chrUn_NW_0 20109974v1	6638	0	0	0
chrUn_NW_0 20109975v1	6808	0	0	0
chrUn_NW_0 20109976v1	6764	0	0	0
chrUn_NW_0 20109977v1	6824	0	0	0
chrUn_NW_0 20109978v1	6814	0	0	0
chrUn_NW_0 20109979v1	6881	121352	17.6358	17.3952
chrUn_NW_0 20109980v1	6824	1085	0.159	0.7533
chrUn_NW_0 20109981v1	6925	0	0	0
chrUn_NW_0 20109982v1	6885	0	0	0
chrUn_NW_0 20109983v1	7090	0	0	0
chrUn_NW_0 20109984v1	6958	0	0	0

chrUn_NW_0 20109985v1	7336	0	0	0
chrUn_NW_0 20109986v1	7298	0	0	0
chrUn_NW_0 20109987v1	7621	0	0	0
chrUn_NW_0 20109988v1	7511	0	0	0
chrUn_NW_0 20109989v1	7675	600	0.0782	0.3009
chrUn_NW_0 20109990v1	7655	0	0	0
chrUn_NW_0 20109991v1	7923	300	0.0379	0.2583
chrUn_NW_0 20109992v1	7918	0	0	0
chrUn_NW_0 20109993v1	8038	0	0	0
chrUn_NW_0 20109994v1	8025	0	0	0
chrUn_NW_0 20109995v1	8118	0	0	0
chrUn_NW_0 20109996v1	8110	0	0	0
chrUn_NW_0 20109997v1	8180	782	0.0956	0.4121
chrUn_NW_0 20109998v1	8152	0	0	0
chrUn_NW_0 20109999v1	8242	0	0	0

chrUn_NW_0 20110000v1	8189	0	0	0
chrUn_NW_0 20110001v1	8294	0	0	0
chrUn_NW_0 20110002v1	8247	0	0	0
chrUn_NW_0 20110003v1	8516	0	0	0
chrUn_NW_0 20110004v1	8464	51058	6.0324	22.769
chrUn_NW_0 20110005v1	8656	0	0	0
chrUn_NW_0 20110006v1	8637	0	0	0
chrUn_NW_0 20110007v1	8749	878	0.1004	0.7326
chrUn_NW_0 20110008v1	8722	0	0	0
chrUn_NW_0 20110009v1	8846	0	0	0
chrUn_NW_0 20110010v1	8788	2377	0.2705	0.606
chrUn_NW_0 20110011v1	8913	0	0	0
chrUn_NW_0 20110012v1	8891	0	0	0
chrUn_NW_0 20110013v1	8999	1495	0.1661	0.6414
chrUn_NW_0 20110014v1	8915	0	0	0

chrUn_NW_0 20110015v1	9118	0	0	0
chrUn_NW_0 20110016v1	9032	0	0	0
chrUn_NW_0 20110017v1	9308	0	0	0
chrUn_NW_0 20110018v1	9172	10770	1.1742	1.2322
chrUn_NW_0 20110019v1	9568	2227600	232.8177	238.2575
chrUn_NW_0 20110020v1	9469	0	0	0
chrUn_NW_0 20110021v1	9617	0	0	0
chrUn_NW_0 20110022v1	9579	0	0	0
chrUn_NW_0 20110023v1	9688	2772	0.2861	0.8502
chrUn_NW_0 20110024v1	9619	0	0	0
chrUn_NW_0 20110025v1	9858	0	0	0
chrUn_NW_0 20110026v1	9696	0	0	0
chrUn_NW_0 20110027v1	9935	0	0	0
chrUn_NW_0 20110028v1	9888	0	0	0
chrUn_NW_0 20110029v1	10056	0	0	0

chrUn_NW_0 20110030v1	10010	0	0	0
chrUn_NW_0 20110031v1	10371	0	0	0
chrUn_NW_0 20110032v1	10066	0	0	0
chrUn_NW_0 20110033v1	10691	1030	0.0963	0.4989
chrUn_NW_0 20110034v1	10473	0	0	0
chrUn_NW_0 20110035v1	10984	0	0	0
chrUn_NW_0 20110036v1	10816	19935	1.8431	1.8953
chrUn_NW_0 20110037v1	11066	0	0	0
chrUn_NW_0 20110038v1	10993	23968	2.1803	11.6147
chrUn_NW_0 20110039v1	11212	0	0	0
chrUn_NW_0 20110040v1	11204	600	0.0536	0.2987
chrUn_NW_0 20110041v1	11376	0	0	0
chrUn_NW_0 20110042v1	11254	0	0	0
chrUn_NW_0 20110043v1	11663	0	0	0
chrUn_NW_0 20110044v1	11473	799	0.0696	0.4384

chrUn_NW_0 20110045v1	11891	0	0	0
chrUn_NW_0 20110046v1	11743	0	0	0
chrUn_NW_0 20110047v1	11985	0	0	0
chrUn_NW_0 20110048v1	11970	0	0	0
chrUn_NW_0 20110049v1	12125	2994	0.2469	0.4723
chrUn_NW_0 20110050v1	12040	0	0	0
chrUn_NW_0 20110051v1	12152	0	0	0
chrUn_NW_0 20110052v1	12129	0	0	0
chrUn_NW_0 20110053v1	12430	0	0	0
chrUn_NW_0 20110054v1	12389	0	0	0
chrUn_NW_0 20110055v1	12562	0	0	0
chrUn_NW_0 20110056v1	12537	0	0	0
chrUn_NW_0 20110057v1	12789	0	0	0
chrUn_NW_0 20110058v1	12721	0	0	0
chrUn_NW_0 20110059v1	12987	0	0	0

chrUn_NW_0 20110060v1	12986	0	0	0
chrUn_NW_0 20110061v1	13139	0	0	0
chrUn_NW_0 20110062v1	13021	0	0	0
chrUn_NW_0 20110063v1	13224	297	0.0225	0.1482
chrUn_NW_0 20110064v1	13157	2341	0.1779	1.3638
chrUn_NW_0 20110065v1	13513	0	0	0
chrUn_NW_0 20110066v1	13240	0	0	0
chrUn_NW_0 20110067v1	13671	0	0	0
chrUn_NW_0 20110068v1	13599	0	0	0
chrUn_NW_0 20110069v1	13798	52363	3.795	6.189
chrUn_NW_0 20110070v1	13793	0	0	0
chrUn_NW_0 20110071v1	13985	0	0	0
chrUn_NW_0 20110072v1	13913	3403	0.2446	0.4108
chrUn_NW_0 20110073v1	14131	0	0	0
chrUn_NW_0 20110074v1	14086	0	0	0

chrUn_NW_0 20110075v1	14298	0	0	0
chrUn_NW_0 20110076v1	14205	1132	0.0797	0.3597
chrUn_NW_0 20110077v1	14604	0	0	0
chrUn_NW_0 20110078v1	14494	0	0	0
chrUn_NW_0 20110079v1	14655	0	0	0
chrUn_NW_0 20110080v1	14613	0	0	0
chrUn_NW_0 20110081v1	14773	174	0.0118	0.153
chrUn_NW_0 20110082v1	14715	1210	0.0822	0.647
chrUn_NW_0 20110083v1	15132	6178	0.4083	0.6869
chrUn_NW_0 20110084v1	15049	0	0	0
chrUn_NW_0 20110085v1	15167	0	0	0
chrUn_NW_0 20110086v1	15134	1356	0.0896	0.7229
chrUn_NW_0 20110087v1	15417	1499	0.0972	0.4521
chrUn_NW_0 20110088v1	15387	0	0	0
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chrUn_NW_0 20110090v1	15492	0	0	0
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chrUn_NW_0 20110092v1	15663	0	0	0
chrUn_NW_0 20110093v1	16031	229	0.0143	0.1547
chrUn_NW_0 20110094v1	15929	0	0	0
chrUn_NW_0 20110095v1	16129	0	0	0
chrUn_NW_0 20110096v1	16106	12658	0.7859	0.9779
chrUn_NW_0 20110097v1	16233	8428	0.5192	0.5581
chrUn_NW_0 20110098v1	16140	300	0.0186	0.1873
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chrUn_NW_0 20110100v1	16245	0	0	0
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chrUn_NW_0 20110109v1	18705	300	0.016	0.1454
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chrUn_NW_0 20110122v1	21580	234	0.0108	0.1404
chrUn_NW_0 20110123v1	21699	0	0	0
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chrUn_NW_0 20110126v1	21751	0	0	0
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chrUn_NW_0 20110128v1	22381	8473	0.3786	0.7404
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chrUn_NW_0 20110130v1	22641	0	0	0
chrUn_NW_0 20110131v1	23748	264153	11.1232	11.4885
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chrUn_NW_0 20110138v1	24712	0	0	0
chrUn_NW_0 20110139v1	25466	0	0	0
chrUn_NW_0 20110140v1	25409	0	0	0
chrUn_NW_0 20110141v1	26131	1016	0.0389	0.4798
chrUn_NW_0 20110142v1	25700	0	0	0
chrUn_NW_0 20110143v1	26298	21928	0.8338	1.1158
chrUn_NW_0 20110144v1	26150	0	0	0
chrUn_NW_0 20110145v1	26595	0	0	0
chrUn_NW_0 20110146v1	26310	1166	0.0443	0.1657
chrUn_NW_0 20110147v1	26960	19539	0.7247	2.5521
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chrUn_NW_0 20110150v1	42067	138982	3.3038	6.1901
chrUn_NW_0 20110151v1	39545	0	0	0
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chrUn_NW_0 20110156v1	177577	74103	0.4173	3.8347
chrUn_NW_0 20110157v1	94788	252713	2.6661	3.7156
chrUn_NW_0 20110158v1	468536	64099	0.1368	7.3949
chrUn_NW_0 20110159v1	199634	466550	2.337	6.4231
chrUn_NW_0 20110160v1	696307	59892056	86.0139	155.9006
chrUn_NW_0 20110161v1	665899	12990825	19.5087	79.1486
chrUn_NW_0 20110162v1	1222195	4465668	3.6538	4.5531
chrUn_NW_0 20110163v1	900507	17975294	19.9613	61.214
chrUn_NW_0 20110164v1	2003471	44070620	21.9971	22.4641

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chrUn_NW_0 20110167v1	2023903	67905418	33.5517	53.7388
chrUn_NW_0 20110168v1	7419	0	0	0
chrUn_NW_0 20110169v1	4840	0	0	0
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chrW_NW_02 0109778v1_r andom	3094	0	0	0
chrW_NW_02 0109779v1_r andom	5587	0	0	0
chrW_NW_02 0109780v1_r andom	6668	0	0	0
chrW_NW_02 0109781v1_r	6830	0	0	0

andom				
chrW_NW_02 0109782v1_r andom	6929	0	0	0
chrW_NW_02 0109783v1_r andom	7074	0	0	0
chrW_NW_02 0109784v1_r andom	7765	0	0	0
chrW_NW_02 0109785v1_r andom	7878	0	0	0
chrW_NW_02 0109786v1_r andom	8166	0	0	0
chrW_NW_02 0109787v1_r andom	8267	0	0	0
chrW_NW_02 0109788v1_r andom	8275	0	0	0
chrW_NW_02 0109789v1_r andom	8559	0	0	0
chrW_NW_02 0109790v1_r andom	8909	0	0	0
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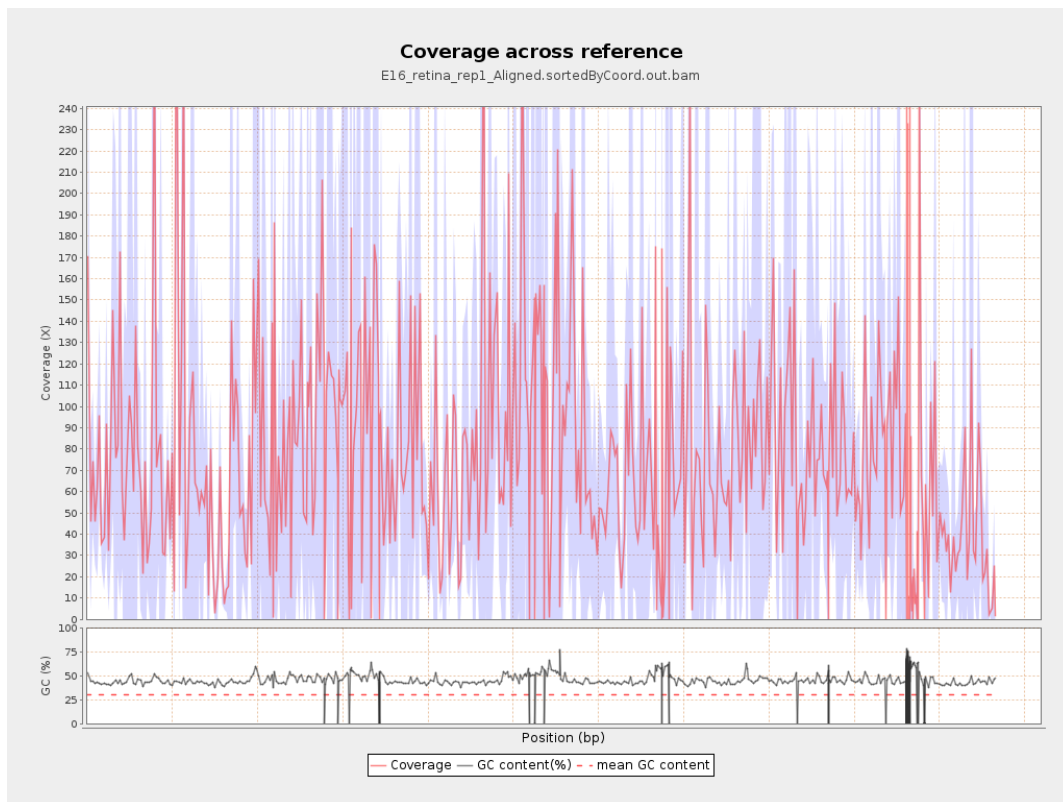
0109792v1_r andom				
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chrW_NW_02 0109795v1_r andom	10162	0	0	0
chrW_NW_02 0109796v1_r andom	10224	0	0	0
chrW_NW_02 0109797v1_r andom	10371	0	0	0
chrW_NW_02 0109798v1_r andom	10551	0	0	0
chrW_NW_02 0109799v1_r andom	10871	0	0	0
chrW_NW_02 0109800v1_r andom	11068	0	0	0
chrW_NW_02 0109801v1_r andom	12127	0	0	0
chrW_NW_02 0109802v1_r andom	12728	0	0	0

chrW_NW_02 0109803v1_r andom	13691	0	0	0
chrW_NW_02 0109804v1_r andom	13829	0	0	0
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chrW_NW_02 0109806v1_r andom	14330	0	0	0
chrW_NW_02 0109807v1_r andom	14810	0	0	0
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chrW_NW_02 0109809v1_r andom	16043	0	0	0
chrW_NW_02 0109810v1_r andom	16320	0	0	0
chrW_NW_02 0109811v1_r andom	17217	0	0	0
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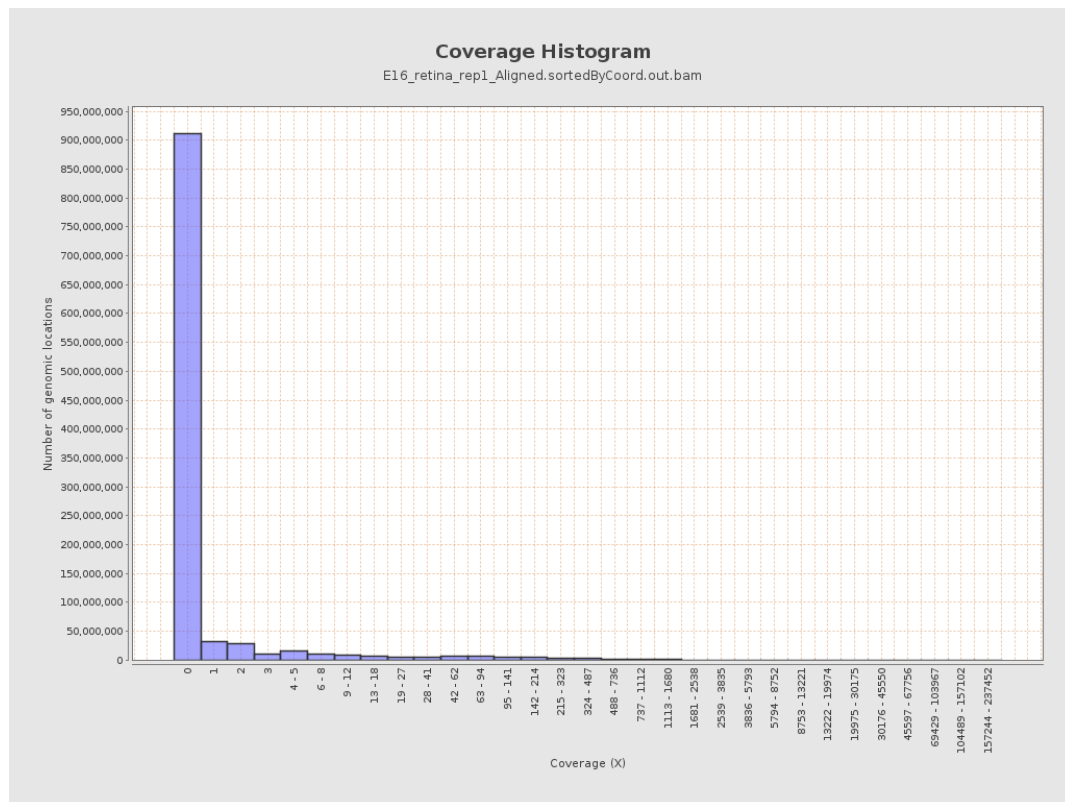
andom				
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chrW_NW_02 0109817v1_r andom	19204	0	0	0
chrW_NW_02 0109818v1_r andom	19471	0	0	0
chrW_NW_02 0109819v1_r andom	19721	0	0	0
chrW_NW_02 0109820v1_r andom	19850	0	0	0
chrW_NW_02 0109821v1_r andom	19928	0	0	0
chrW_NW_02 0109822v1_r andom	22964	0	0	0
chrW_NW_02 0109823v1_r andom	23209	0	0	0
chrW_NW_02	24105	0	0	0

0109824v1_r andom				
chrW_NW_02 0109825v1_r andom	27808	0	0	0
chrW_NW_02 0109826v1_r andom	28212	0	0	0
chrZ	82529921	3636692912	44.0651	161.9268
chrZ_NW_02 0109829v1_r andom	15587	29035	1.8628	7.0107

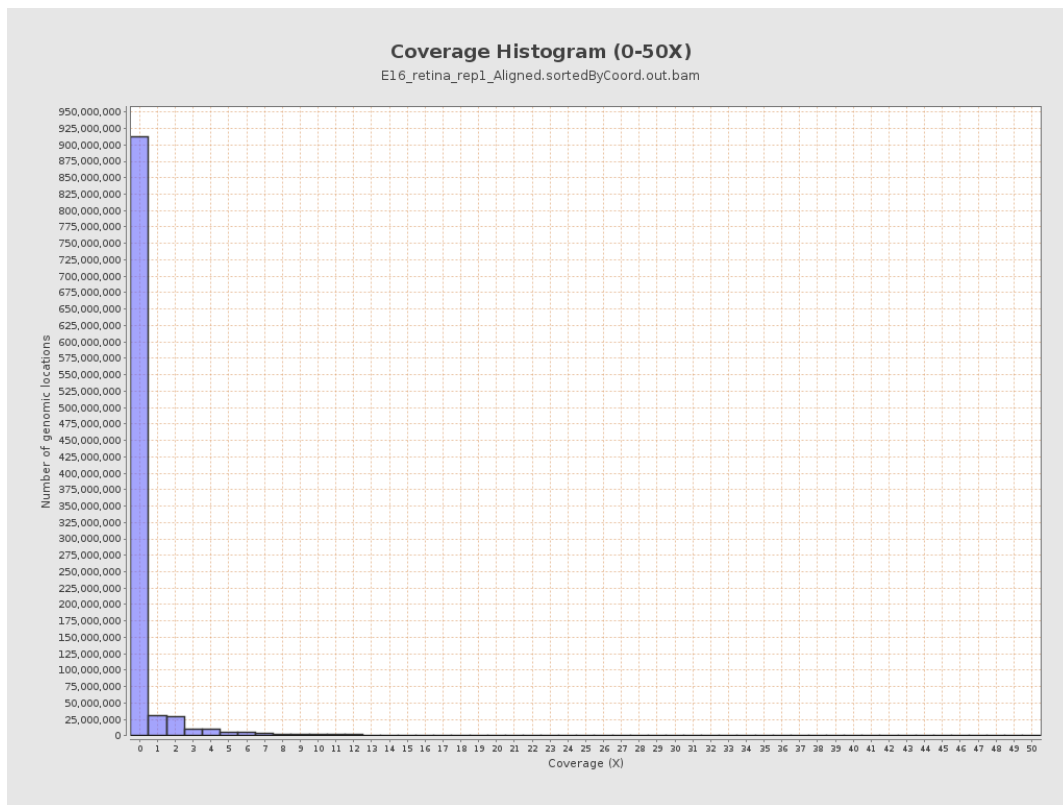
3. Results : Coverage across reference



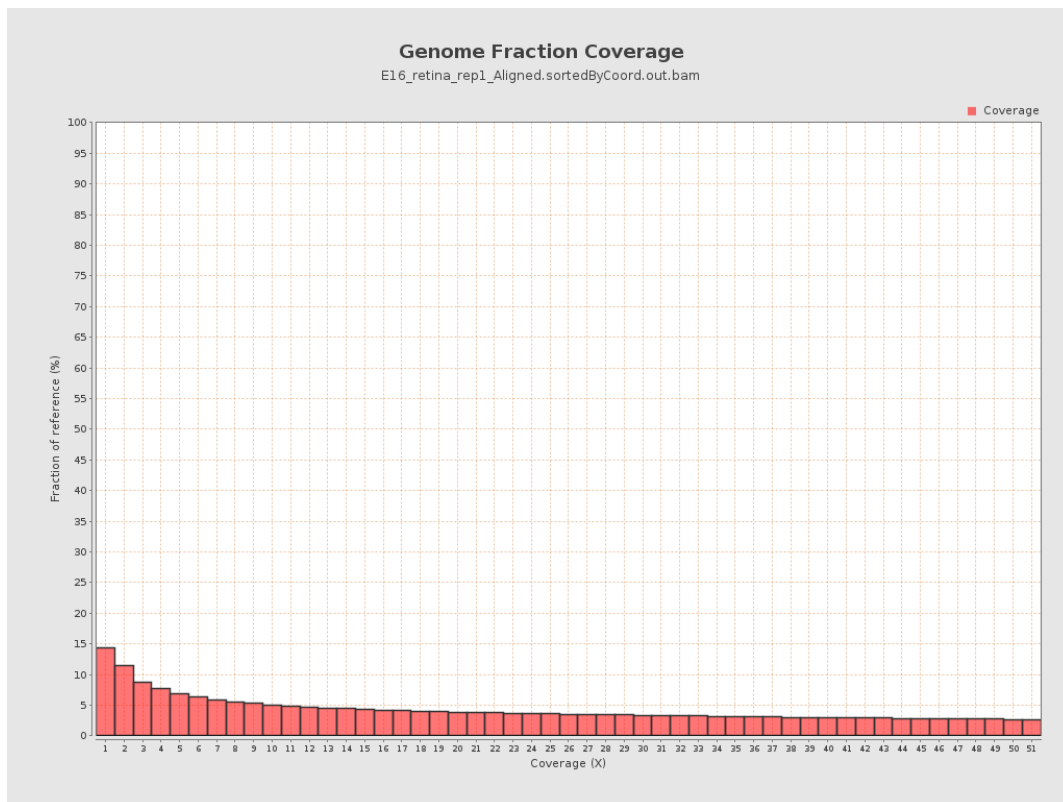
4. Results : Coverage Histogram



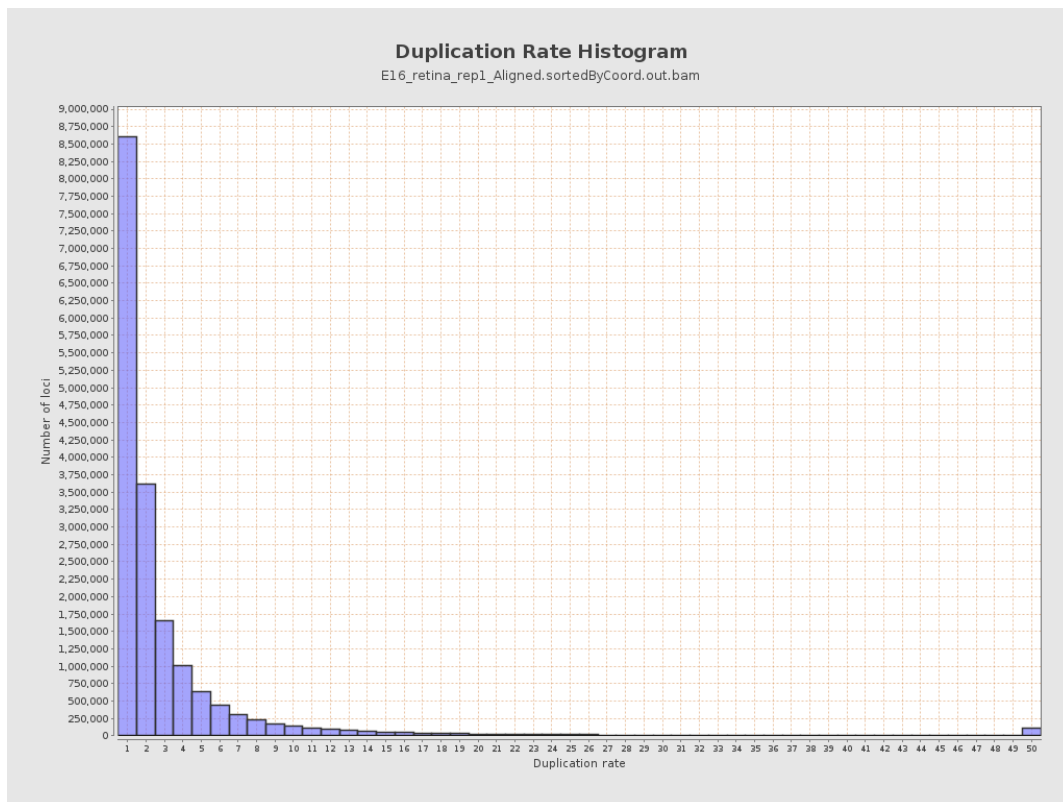
5. Results : Coverage Histogram (0-50X)



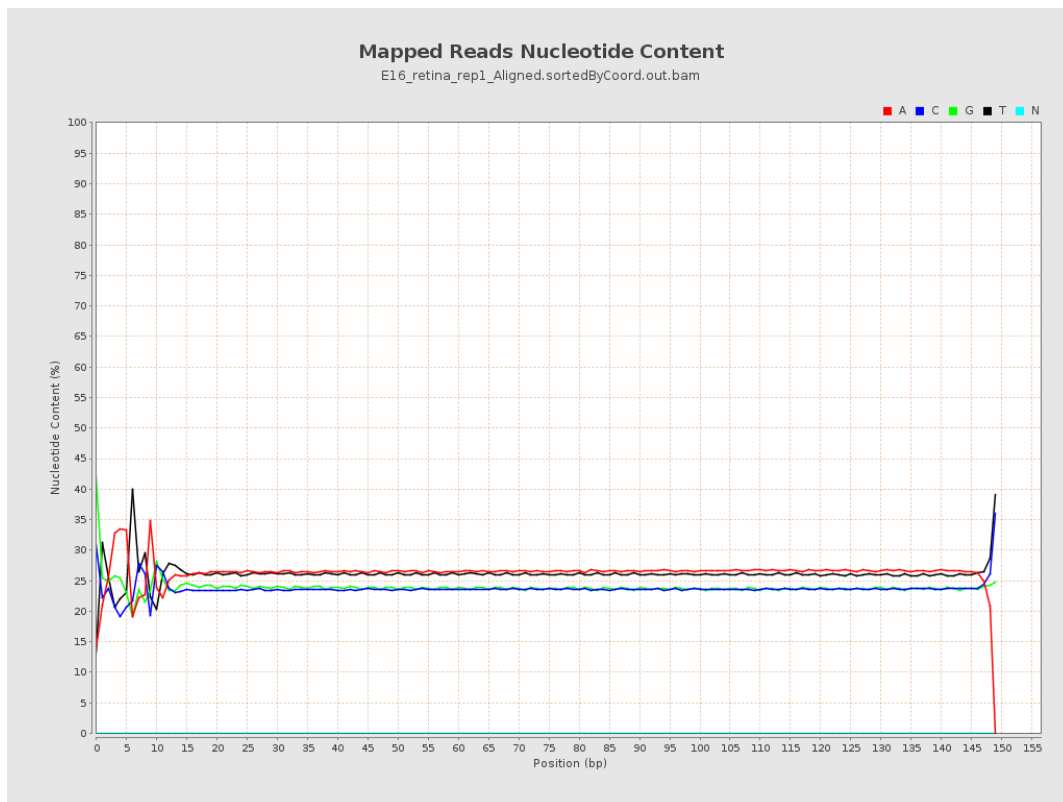
6. Results : Genome Fraction Coverage



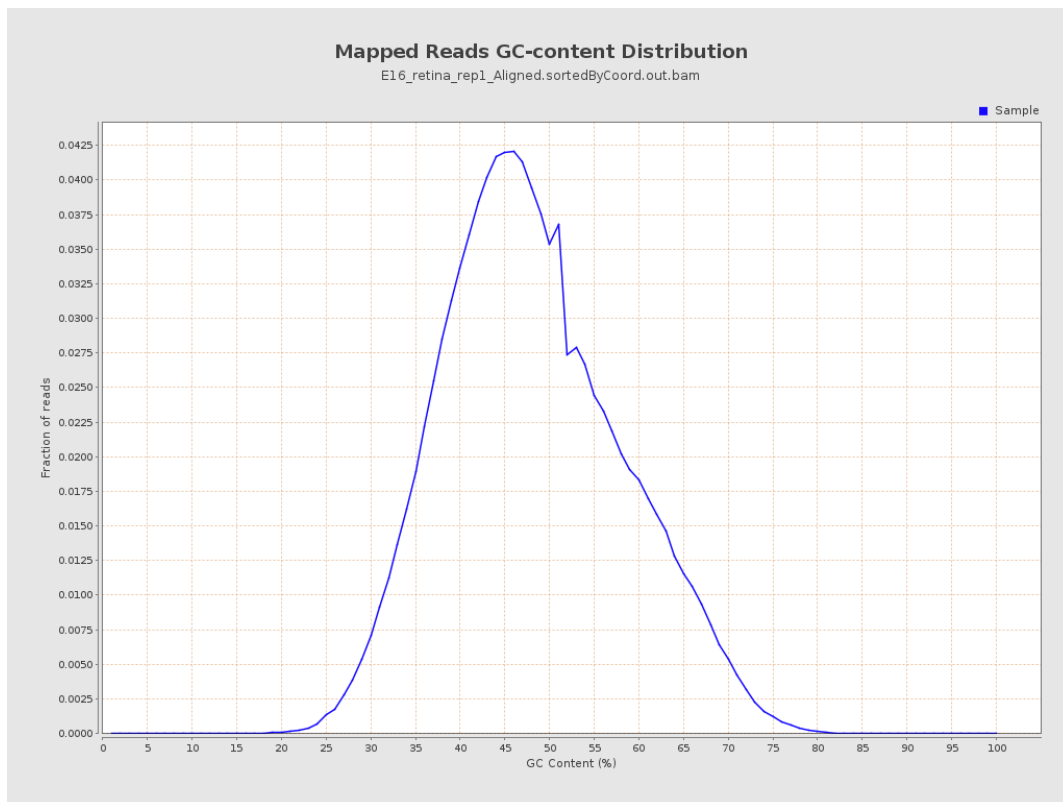
7. Results : Duplication Rate Histogram



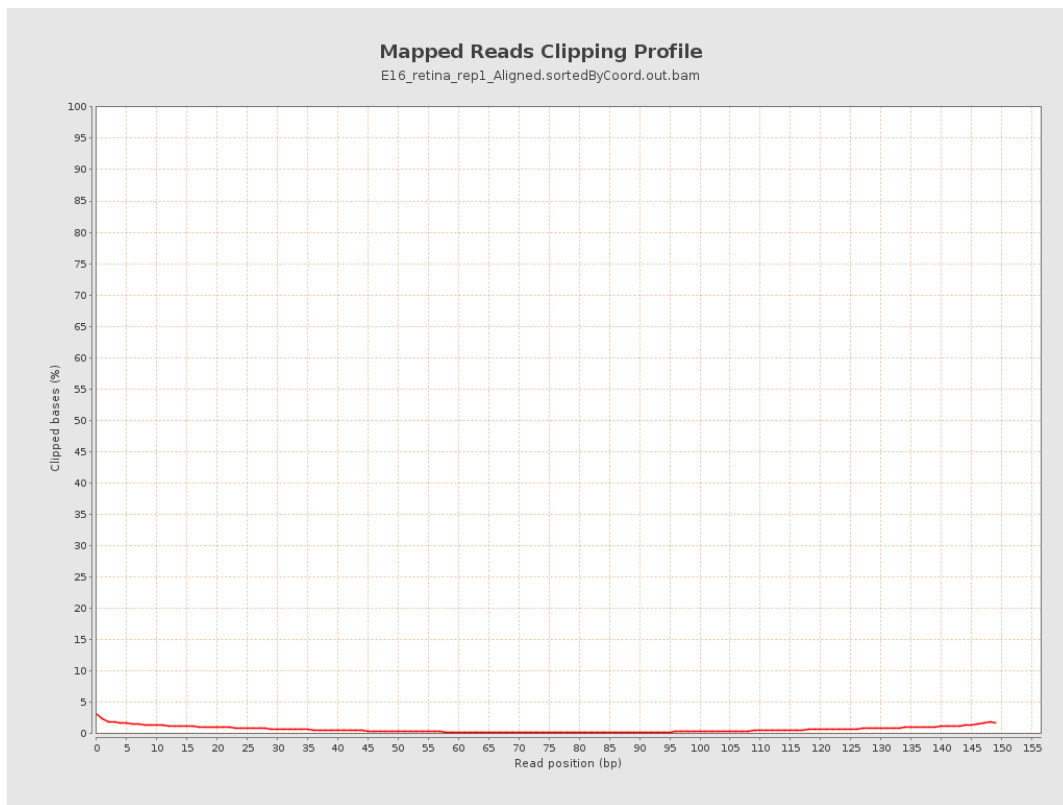
8. Results : Mapped Reads Nucleotide Content



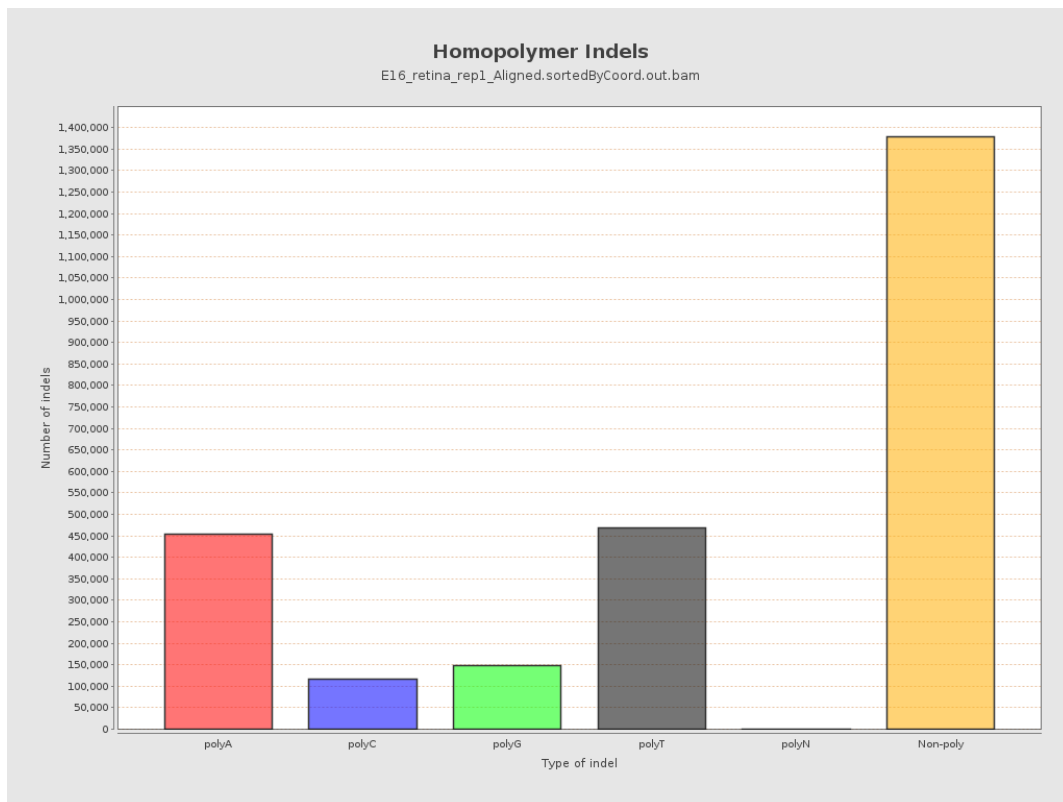
9. Results : Mapped Reads GC-content Distribution



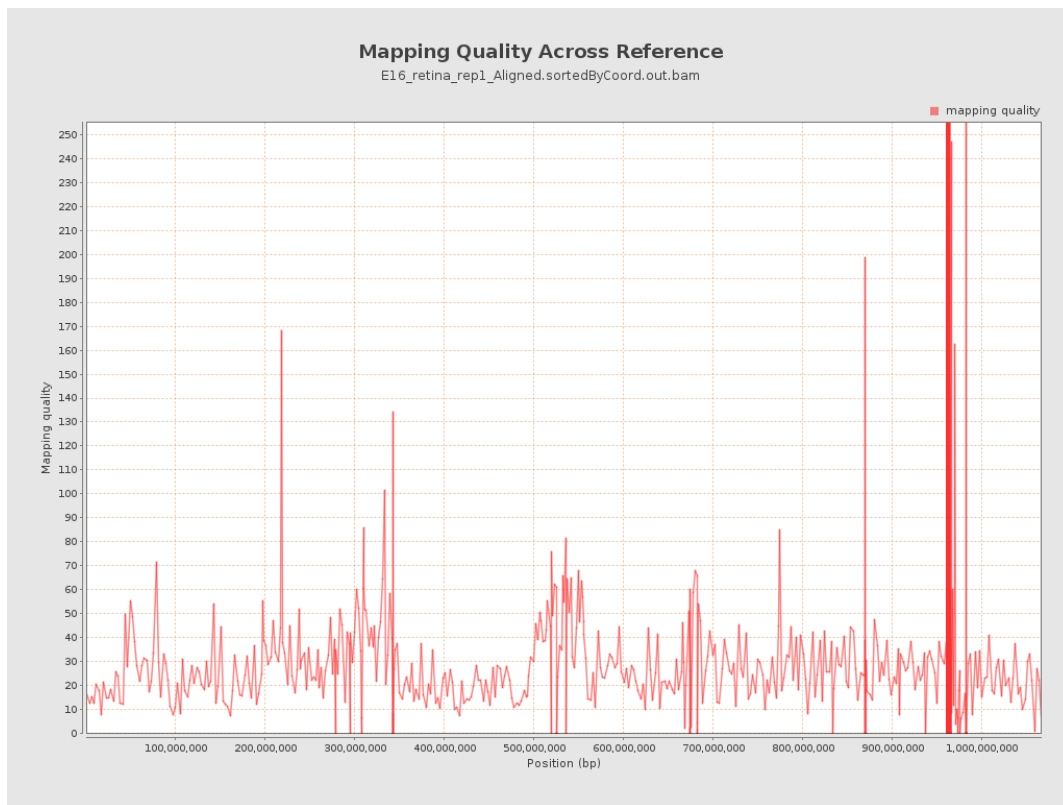
10. Results : Mapped Reads Clipping Profile



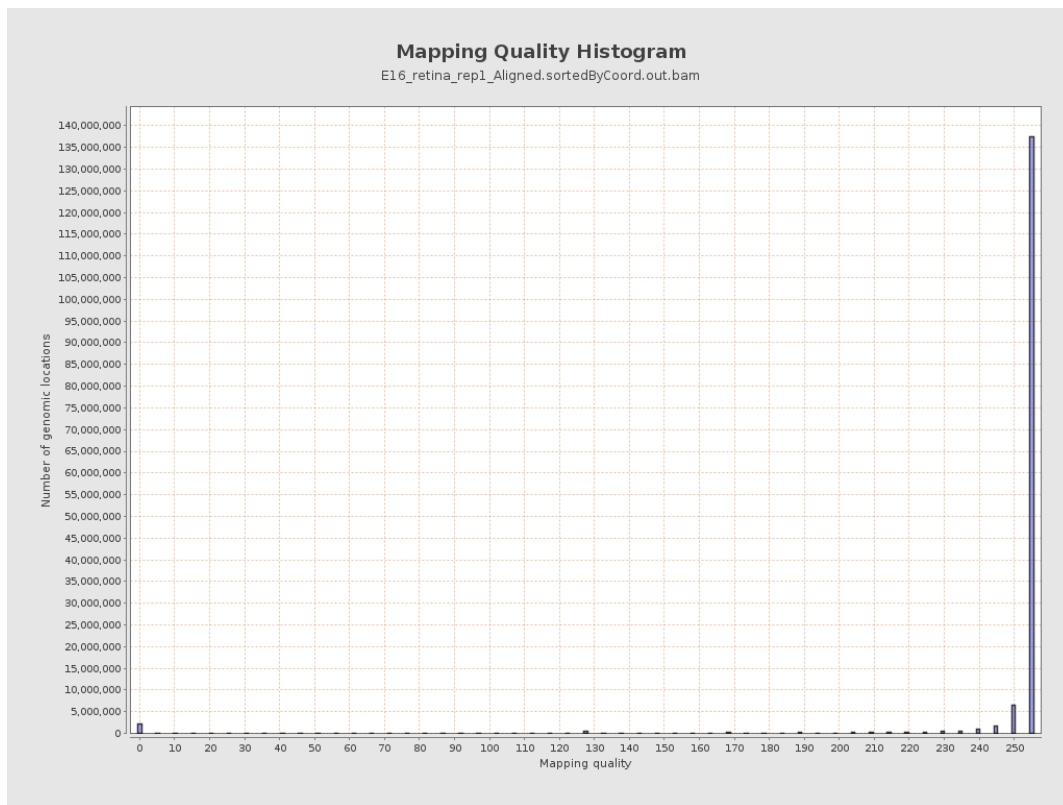
11. Results : Homopolymer Indels



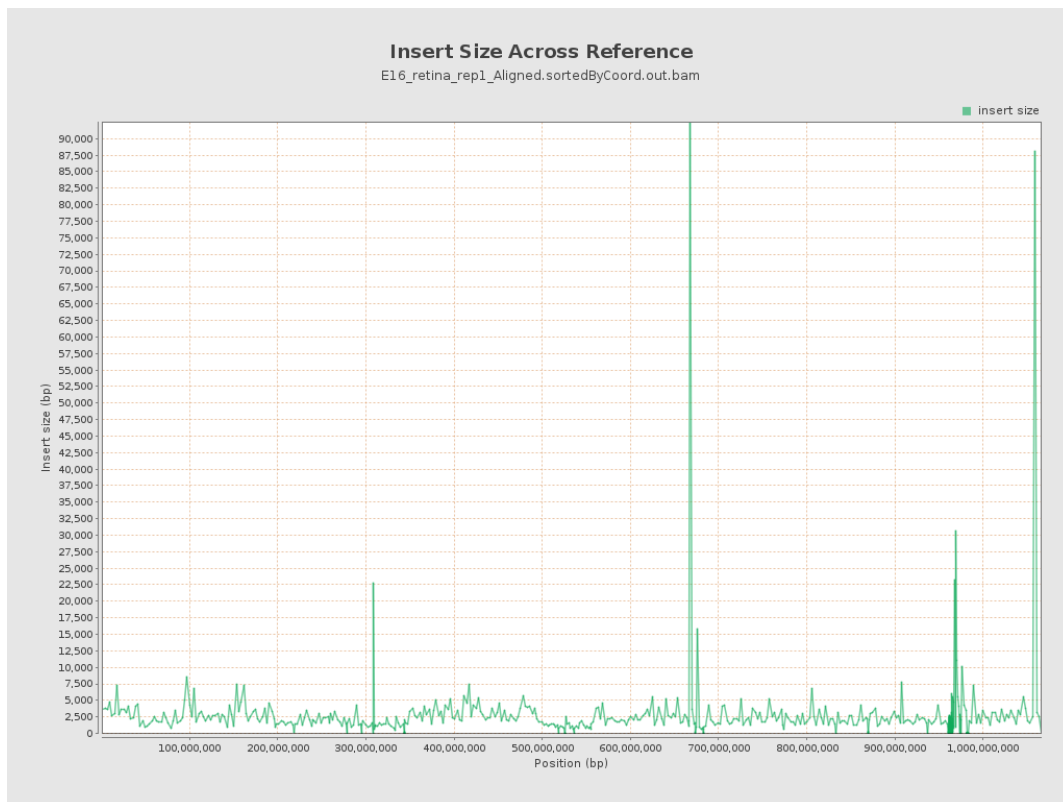
12. Results : Mapping Quality Across Reference



13. Results : Mapping Quality Histogram



14. Results : Insert Size Across Reference



15. Results : Insert Size Histogram

