

# Qualimap Analysis Results

*BAM QC analysis*

*Generated by Qualimap v.2.2.1*

*2019/09/27 16:13:43*

# 1. Input data & parameters (inside of regions)

## 1.1. QualiMap command line

```

qualimap bamqc -bam
/nfs/no_backup/rg/projects/regeneration/pipeline/grape-nf-dm6-
r6.22/work/08/8523288d4253119f20923d085c517a/H16H15C2_m4_n10_to
Genome.bam -gff
/nfs/users2/rg/projects/references/Annotation/D.melanogaster/dmel_r6.22/m
RNA_ncRNA/ucsc.dmel-all-
r6.22.mRNA.nRNA.190.length.selection.type.no.Overlapping.Sorted.gtf -nw
400 -hm 3

```

## 1.2. Alignment

Command line:	<pre> STAR --runThreadN 8 --genomeDir genomeDir --readFilesIn C3- dash_R1.fastq.gz C3- dash_R2.fastq.gz -- readFilesCommand pigz -p8 -dc --limitBAMsortRAM 33285996544 -- outSAMtype BAM SortedByCoordinate -- outSAMattributes NH HI AS NM MD --outSAMunmapped Within -- outSAMattrRGline ID:H16H15C2 PU:H16H15C2 SM:H16H15C2 PL:ILLUMINA CN:CRG -- outFilterType BySJout -- outFilterMultimapNmax 10 -- outFilterMismatchNmax 999 -- outFilterMismatchNoverReadLmax 0.04 --alignIntronMin 20 -- alignIntronMax 1000000 -- alignMatesGapMax 1000000 -- alignSJoverhangMin 8 -- alignSJDBoverhangMin 1 -- </pre>
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	quantMode TranscriptomeSAM
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	STAR (STAR_2.4.0j)
Analysis date:	Fri Sep 27 16:13:42 CEST 2019
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	/nfs/no_backup/rg/projects/regeneration/pipeline/grape-nf-dm6-r6.22/work/08/8523288d4253119f20923d085c517a/H16H15C2_m4_n10_tOGenome.bam

### 1.3. GFF region

Library protocol:	non-strand-specific
Outside statistics:	no
GFF file:	/nfs/users2/rg/projects/references/Annotation/D.melanogaster/dmel_r6.22/mRNA_ncRNA/ucsc.dmel-all-r6.22.mRNA.nRNA.190.length.selection.type.no.Overlapping.Sorted.gtf

## 2. Summary (inside of regions)

### 2.1. Globals

Reference size	143,726,002
Number of reads	73,771,630
Mapped reads	71,237,016 / 96.56%
Unmapped reads	2,534,614 / 3.44%
Mapped paired reads	71,237,016 / 96.56%
Mapped reads, first in pair	35,618,508 / 48.28%
Mapped reads, second in pair	35,618,508 / 48.28%
Mapped reads, both in pair	71,237,016 / 96.56%
Mapped reads, singletons	0 / 0%
Read min/max/mean length	76 / 76 / 76
Clipped reads	5,851,947 / 7.93%

### 2.2. Globals (inside of regions)

Regions size/percentage of reference	93,645,580 / 65.16%
Mapped reads	58,986,629 / 79.96%
Mapped reads, only first in pair	29,493,947 / 39.98%
Mapped reads, only second in pair	29,492,682 / 39.98%
Mapped reads, both in pair	58,986,629 / 79.96%
Mapped reads, singletons	0 / 0%
Correct strand reads	0 / 0%
Clipped reads	5,851,947 / 7.93%
Duplicated reads (estimated)	50,795,802 / 86.11%

Duplication rate	56.77%
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### 2.3. ACGT Content (inside of regions)

Number/percentage of A's	1,114,642,194 / 25.03%
Number/percentage of C's	1,100,288,224 / 24.71%
Number/percentage of T's	1,146,639,893 / 25.75%
Number/percentage of G's	1,091,699,768 / 24.51%
Number/percentage of N's	6,294,396,470 / 141.34%
GC Percentage	49.22%

### 2.4. Coverage (inside of regions)

Mean	114.7767
Standard Deviation	963.1814

### 2.5. Mapping Quality (inside of regions)

Mean Mapping Quality	241.53
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### 2.6. Insert size (inside of regions)

Mean	635.56
Standard Deviation	9,602.85
P25/Median/P75	160 / 216 / 330

### 2.7. Mismatches and indels (inside of regions)

General error rate	0.19%
Mismatches	19,739,788
Insertions	534,344

Mapped reads with at least one insertion	0.75%
Deletions	297,123
Mapped reads with at least one deletion	0.41%
Homopolymer indels	69.63%

## 2.8. Chromosome stats (inside of regions)

Name	Length	Mapped bases	Mean coverage	Standard deviation
chr2L	15854837	1792502622	113.0571	837.7507
chr2R	16880511	2733248165	161.9174	1,383.3557
chr3L	18005806	2099956191	116.6266	752.0796
chr3R	23285070	1908217137	81.9502	613.2069
chr4	1040043	180101171	173.167	656.3606
chrM	11009	298609036	27,124.0836	28,474.2276
chrUn_DS485 919v1	0	0	0	0
chrUn_DS483 755v1	0	0	0	0
chrUn_DS485 425v1	0	0	0	0
chrUn_DS484 861v1	0	0	0	0
chrUn_DS484 484v1	0	0	0	0
chrUn_DS483 705v1	0	0	0	0

chrUn_DS485 490v1	0	0	0	0
chrUn_DS485 998v1	0	0	0	0
chrUn_DS483 873v1	0	0	0	0
chrUn_DS485 608v1	0	0	0	0
chrUn_DS485 270v1	0	0	0	0
chrUn_DS485 979v1	0	0	0	0
chrUn_DS485 398v1	0	0	0	0
chrUn_DS484 139v1	0	0	0	0
chrUn_DS483 906v1	0	0	0	0
chrUn_DS485 760v1	0	0	0	0
chrUn_DS484 191v1	0	0	0	0
chrUn_DS485 340v1	0	0	0	0
chrUn_DS484 489v1	0	0	0	0
chrUn_DS485 495v1	0	0	0	0
chrUn_DS484 923v1	0	0	0	0

chrUn_DS484 663v1	0	0	0	0
chrUn_DS485 390v1	0	0	0	0
chrUn_DS485 130v1	0	0	0	0
chrUn_DS485 995v1	0	0	0	0
chrUn_DS484 448v1	0	0	0	0
chrUn_DS484 827v1	0	0	0	0
chrUn_DS485 467v1	0	0	0	0
chrUn_DS485 433v1	0	0	0	0
chrUn_DS484 944v1	0	0	0	0
chrUn_DS485 504v1	0	0	0	0
chrUn_DS484 938v1	0	0	0	0
chrUn_DS485 984v1	0	0	0	0
chrUn_DS484 921v1	0	0	0	0
chrUn_DS485 859v1	0	0	0	0
chrUn_DS485 086v1	0	0	0	0



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chrUn_DS485 294v1	0	0	0	0
chrUn_DS484 855v1	0	0	0	0
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chrUn_DS485 386v1	0	0	0	0
chrUn_DS484 726v1	0	0	0	0
chrUn_DS484 366v1	0	0	0	0
chrUn_DS486 002v1	0	0	0	0
chrUn_DS484 770v1	0	0	0	0
chrUn_DS485 354v1	0	0	0	0
chrUn_DS483 728v1	0	0	0	0
chrUn_DS485 403v1	0	0	0	0
chrUn_DS484 964v1	0	0	0	0
chrUn_DS483 921v1	0	0	0	0

chrUn_DS485 181v1	0	0	0	0
chrUn_DS485 602v1	0	0	0	0
chrUn_DS485 783v1	0	0	0	0
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chrUn_DS484 972v1	0	0	0	0
chrUn_DS484 407v1	0	0	0	0
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chrUn_DS483 748v1	0	0	0	0
chrUn_DS484 460v1	0	0	0	0

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chrUn_DS484 039v1	0	0	0	0
chrUn_DS484 339v1	0	0	0	0
chrUn_DS485 457v1	0	0	0	0
chrUn_DS485 643v1	0	0	0	0
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chrUn_DS485 678v1	0	0	0	0
chrUn_DS485 150v1	0	0	0	0
chrUn_DS484 746v1	0	0	0	0
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chrUn_DS485 541v1	0	0	0	0
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chrUn_DS484 490v1	0	0	0	0
chrUn_DS484 881v1	0	0	0	0

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chrUn_DS483 719v1	0	0	0	0
chrUn_DS484 571v1	0	0	0	0
chrUn_DS485 733v1	0	0	0	0
chrUn_CP007 102v1	0	0	0	0
chrUn_DS484 052v1	0	0	0	0

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chrUn_DS485 239v1	0	0	0	0
chrUn_DS485 853v1	0	0	0	0
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chrUn_DS484 707v1	0	0	0	0
chrUn_DS485 675v1	0	0	0	0
chrUn_DS485 065v1	0	0	0	0

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chrUn_DS483 723v1	0	0	0	0
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chrUn_DS484 716v1	0	0	0	0
chrUn_DS485 907v1	0	0	0	0

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chrUn_DS485 891v1	0	0	0	0
chrUn_DS484 329v1	0	0	0	0
chrUn_DS484 653v1	0	0	0	0
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chrUn_DS484 493v1	0	0	0	0
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chrUn_DS484 866v1	0	0	0	0
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chrUn_DS485 810v1	0	0	0	0
chrUn_DS485 982v1	0	0	0	0

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chrUn_DS483 736v1	0	0	0	0
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chrUn_DS484 776v1	0	0	0	0
chrUn_DS483 864v1	0	0	0	0



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chrUn_DS485 940v1	0	0	0	0
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chrUn_DS485 585v1	0	0	0	0
chrUn_DS484 948v1	0	0	0	0
chrUn_DS484 728v1	0	0	0	0

chrUn_DS484 313v1	0	0	0	0
chrUn_DS485 395v1	0	0	0	0
chrUn_DS484 443v1	0	0	0	0
chrUn_DS483 650v1	0	0	0	0
chrUn_DS485 498v1	0	0	0	0
chrUn_DS485 668v1	0	0	0	0
chrUn_DS485 751v1	0	0	0	0
chrUn_DS484 077v1	0	0	0	0
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chrUn_DS485 545v1	0	0	0	0
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chrUn_DS484 394v1	0	0	0	0
chrUn_DS485 064v1	0	0	0	0
chrUn_DS484 549v1	0	0	0	0
chrUn_DS484 738v1	0	0	0	0

chrUn_DS484 985v1	0	0	0	0
chrUn_DS485 324v1	0	0	0	0
chrUn_DS485 904v1	0	0	0	0
chrUn_DS484 979v1	0	0	0	0
chrUn_DS485 353v1	0	0	0	0
chrUn_DS485 688v1	0	0	0	0
chrUn_DS484 987v1	0	0	0	0
chrUn_DS483 680v1	0	0	0	0
chrUn_DS485 686v1	0	0	0	0
chrUn_DS484 456v1	0	0	0	0
chrUn_DS485 488v1	0	0	0	0
chrUn_DS484 479v1	0	0	0	0
chrUn_DS484 154v1	0	0	0	0
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chrX_DS4846 22v1_random	0	0	0	0
chrX_DS4845 26v1_random	0	0	0	0
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chrX_DS4852 35v1_random	0	0	0	0
chrX_DS4847 45v1_random	0	0	0	0
chrX_DS4845 07v1_random	0	0	0	0
chrX_DS4840 74v1_random	0	0	0	0



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chrX_DS4849 65v1_random	0	0	0	0
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chrX_DS4851 12v1_random	0	0	0	0
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chrX_DS4856 51v1_random	0	0	0	0
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chrX_DS4841 85v1_random	0	0	0	0
chrX_DS4855 50v1_random	0	0	0	0
chrX_DS4837 95v1_random	0	0	0	0
chrX_DS4846 66v1_random	0	0	0	0
chrX_DS4836 66v1_random	0	0	0	0
chrX_DS4843 71v1_random	0	0	0	0
chrX_DS4839 07v1_random	0	0	0	0
chrX_DS4843 87v1_random	0	0	0	0
chrX_DS4843 16v1_random	0	0	0	0
chrX_DS4838 03v1_random	0	0	0	0
chrX_DS4839 50v1_random	0	0	0	0
chrX_DS4838 85v1_random	0	0	0	0
chrX_DS4839 28v1_random	0	0	0	0

chrX_DS4843 26v1_random	0	0	0	0
chrX_DS4837 45v1_random	0	0	0	0
chrX_DS4838 92v1_random	0	0	0	0
chrX_DS4840 61v1_random	0	0	0	0
chrX_DS4843 30v1_random	0	0	0	0
chrX_DS4841 40v1_random	0	0	0	0
chrX_DS4840 51v1_random	0	0	0	0
chrX_DS4838 93v1_random	0	0	0	0
chrX_DS4840 75v1_random	0	0	0	0
chrX_DS4839 48v1_random	0	0	0	0
chrX_DS4840 81v1_random	0	0	0	0
chrX_DS4845 86v1_random	0	0	0	0
chrX_DS4842 78v1_random	0	0	0	0
chrX_DS4840 46v1_random	0	0	0	0
chrX_DS4841 33v1_random	0	0	0	0

chrX_DS4839 09v1_random	0	0	0	0
chrX_DS4844 88v1_random	0	0	0	0
chrX_DS4839 74v1_random	0	0	0	0
chrX_DS4839 03v1_random	0	0	0	0
chrX_DS4845 38v1_random	0	0	0	0
chrX_DS4839 46v1_random	0	0	0	0
chrX_DS4845 56v1_random	0	0	0	0
chrX_DS4838 51v1_random	0	0	0	0
chrX_DS4839 26v1_random	0	0	0	0
chrX_DS4845 63v1_random	0	0	0	0
chrX_DS4839 23v1_random	0	0	0	0
chrX_DS4841 66v1_random	0	0	0	0
chrX_DS4843 41v1_random	0	0	0	0
chrX_DS4840 99v1_random	0	0	0	0
chrX_DS4840 60v1_random	0	0	0	0

chrX_DS4841 32v1_random	0	0	0	0
chrX_DS4838 21v1_random	0	0	0	0
chrX_DS4838 18v1_random	0	0	0	0
chrX_DS4845 62v1_random	0	0	0	0
chrX_DS4839 69v1_random	0	0	0	0
chrX_DS4840 26v1_random	0	0	0	0
chrX_CP0071 04v1_random	0	0	0	0
chrX_CP0071 03v1_random	0	0	0	0
chrY	1063129	15067492	14.1728	29.7492
chrY_DS4851 13v1_random	0	0	0	0
chrY_DS4852 67v1_random	0	0	0	0
chrY_DS4849 92v1_random	0	0	0	0
chrY_DS4855 94v1_random	0	0	0	0
chrY_DS4848 05v1_random	0	0	0	0
chrY_DS4840 21v1_random	0	0	0	0

chrY_DS4841 84v1_random	0	0	0	0
chrY_DS4850 13v1_random	0	0	0	0
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chrY_DS4841 42v1_random	1265	0	0	0
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chrY_DS4842 33v1_random	0	0	0	0
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chrY_DS4841 46v1_random	0	0	0	0
chrY_DS4839 59v1_random	0	0	0	0

chrY_DS4857 95v1_random	0	0	0	0
chrY_DS4842 59v1_random	0	0	0	0
chrY_DS4837 78v1_random	0	0	0	0
chrY_DS4846 81v1_random	0	0	0	0
chrY_DS4859 27v1_random	0	0	0	0
chrY_DS4849 86v1_random	0	0	0	0
chrY_DS4841 64v1_random	0	0	0	0
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chrY_DS4850 51v1_random	0	0	0	0
chrY_DS4839 87v1_random	0	0	0	0

chrY_DS4851 59v1_random	0	0	0	0
chrY_DS4842 66v1_random	0	0	0	0
chrY_DS4856 46v1_random	0	0	0	0
chrY_DS4847 81v1_random	0	0	0	0
chrY_DS4855 61v1_random	0	0	0	0
chrY_DS4840 56v1_random	0	0	0	0
chrY_DS4851 66v1_random	0	0	0	0
chrY_DS4854 27v1_random	0	0	0	0
chrY_DS4858 94v1_random	0	0	0	0
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chrY_DS4854 92v1_random	0	0	0	0
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chrY_DS4844 92v1_random	0	0	0	0
chrY_DS4854 83v1_random	0	0	0	0



chrY_DS4852 50v1_random	0	0	0	0
chrY_DS4853 88v1_random	0	0	0	0
chrY_DS4848 18v1_random	0	0	0	0
chrY_DS4855 75v1_random	0	0	0	0
chrY_DS4856 96v1_random	0	0	0	0
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chrY_DS4845 74v1_random	0	0	0	0
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chrY_DS4857 32v1_random	0	0	0	0
chrY_DS4853 74v1_random	0	0	0	0
chrY_DS4853 59v1_random	0	0	0	0
chrY_DS4855 23v1_random	1105	0	0	0
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chrY_DS4853 99v1_random	0	0	0	0
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chrY_DS4842 49v1_random	0	0	0	0
chrY_DS4859 38v1_random	435	0	0	0
chrY_DS4853 29v1_random	0	0	0	0
chrY_DS4845 23v1_random	0	0	0	0

chrY_DS4850 42v1_random	0	0	0	0
chrY_DS4859 01v1_random	0	0	0	0
chrY_DS4848 63v1_random	0	0	0	0
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chrY_DS4857 72v1_random	0	0	0	0
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chrY_DS4853 28v1_random	0	0	0	0
chrY_DS4843 36v1_random	0	0	0	0
chrY_DS4851 78v1_random	0	0	0	0
chrY_DS4854 09v1_random	0	0	0	0
chrY_DS4857 64v1_random	0	0	0	0
chrY_DS4841 28v1_random	0	0	0	0
chrY_DS4857 39v1_random	0	0	0	0
chrY_DS4854 52v1_random	0	0	0	0
chrY_DS4849 09v1_random	1356	0	0	0

chrY_DS4856 41v1_random	0	0	0	0
chrY_DS4849 56v1_random	0	0	0	0
chrY_DS4853 20v1_random	0	0	0	0
chrY_DS4853 02v1_random	0	0	0	0
chrY_DS4854 40v1_random	0	0	0	0
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chrY_DS4850 99v1_random	0	0	0	0
chrY_DS4858 39v1_random	0	0	0	0
chrY_DS4845 89v1_random	0	0	0	0
chrY_DS4850 48v1_random	0	0	0	0
chrY_DS4853 63v1_random	0	0	0	0

chrY_DS4841 03v1_random	0	0	0	0
chrY_DS4855 32v1_random	0	0	0	0
chrY_DS4849 42v1_random	0	0	0	0
chrY_DS4849 83v1_random	0	0	0	0
chrY_DS4846 80v1_random	0	0	0	0
chrY_DS4844 41v1_random	0	0	0	0
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chrY_DS4859 72v1_random	0	0	0	0
chrY_DS4840 43v1_random	0	0	0	0
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chrY_DS4853 18v1_random	0	0	0	0
chrY_DS4859 63v1_random	0	0	0	0

chrY_DS4857 76v1_random	0	0	0	0
chrY_DS4851 37v1_random	0	0	0	0
chrY_DS4853 15v1_random	0	0	0	0
chrY_DS4846 96v1_random	0	0	0	0
chrY_DS4837 42v1_random	654	0	0	0
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chrY_DS4841 81v1_random	0	0	0	0
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chrY_DS4858 88v1_random	0	0	0	0
chrY_DS4845 31v1_random	0	0	0	0
chrY_DS4854 70v1_random	0	0	0	0
chrY_DS4854 73v1_random	0	0	0	0
chrY_DS4857 55v1_random	0	0	0	0

chrY_DS4858 92v1_random	0	0	0	0
chrY_DS4855 52v1_random	0	0	0	0
chrY_DS4852 88v1_random	0	0	0	0
chrY_DS4850 14v1_random	0	0	0	0
chrY_DS4847 57v1_random	0	0	0	0
chrY_DS4848 20v1_random	0	0	0	0
chrY_DS4854 22v1_random	0	0	0	0
chrY_DS4848 76v1_random	0	0	0	0
chrY_DS4858 58v1_random	0	0	0	0
chrY_DS4855 12v1_random	0	0	0	0
chrY_DS4851 43v1_random	0	0	0	0
chrY_DS4843 90v1_random	0	0	0	0
chrY_DS4854 16v1_random	0	0	0	0
chrY_DS4846 74v1_random	0	0	0	0
chrY_DS4844 65v1_random	0	0	0	0

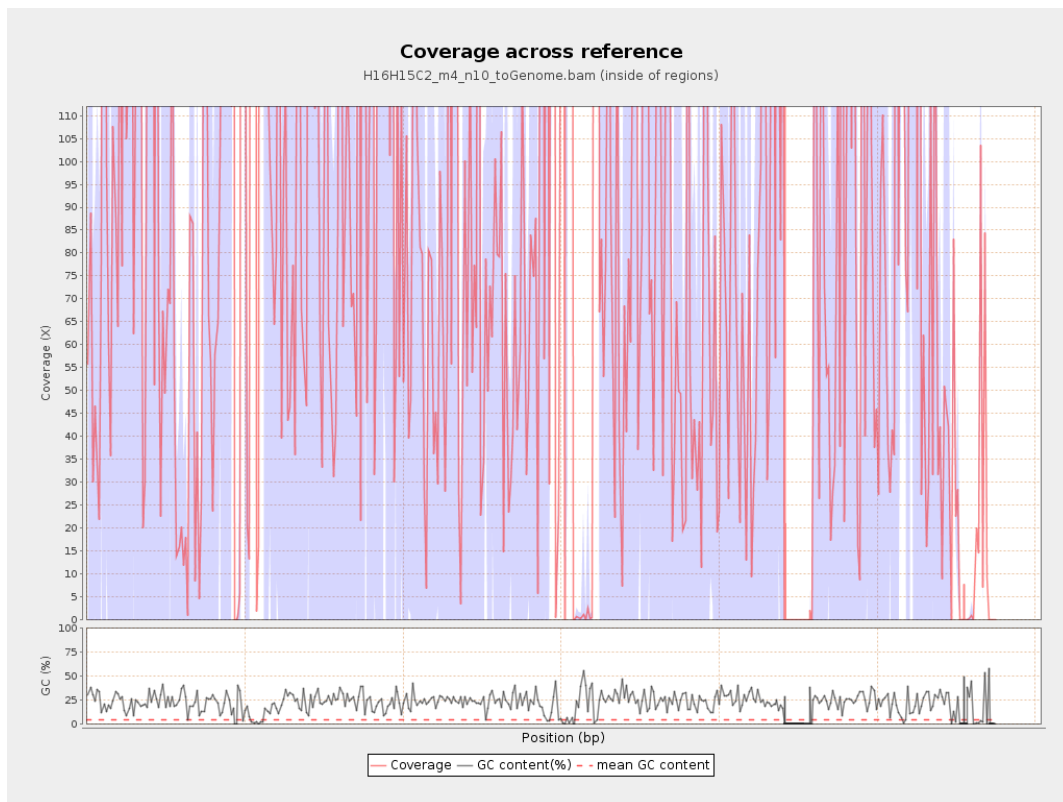
chrY_DS4854 36v1_random	0	0	0	0
chrY_DS4854 50v1_random	0	0	0	0
chrY_DS4848 30v1_random	0	0	0	0
chrY_DS4839 88v1_random	0	0	0	0
chrY_DS4848 07v1_random	0	0	0	0
chrY_DS4859 56v1_random	0	0	0	0
chrY_DS4852 83v1_random	0	0	0	0
chrY_DS4853 35v1_random	0	0	0	0
chrY_DS4856 98v1_random	0	0	0	0
chrY_DS4846 41v1_random	0	0	0	0
chrY_DS4854 30v1_random	0	0	0	0
chrY_DS4853 16v1_random	0	0	0	0
chrY_DS4843 77v1_random	0	0	0	0
chrY_DS4857 86v1_random	0	0	0	0
chrY_DS4849 24v1_random	0	0	0	0



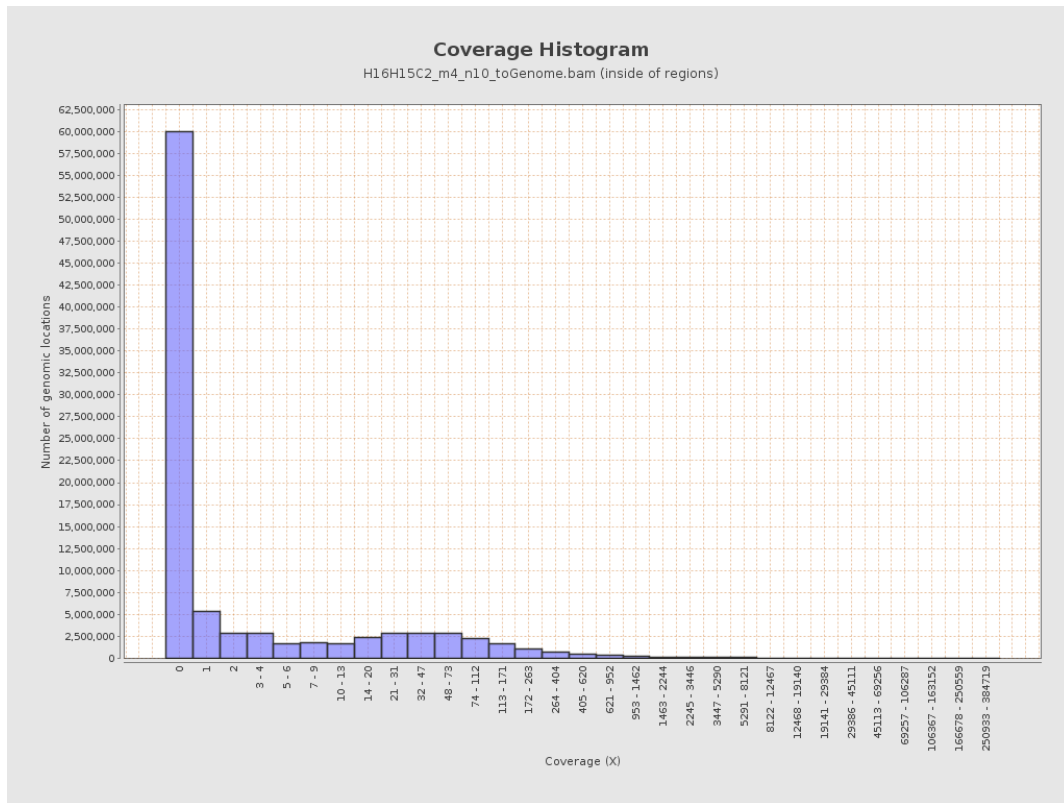
chrY_DS4858 85v1_random	0	0	0	0
chrY_DS4858 49v1_random	0	0	0	0
chrY_DS4852 19v1_random	0	0	0	0
chrY_DS4848 75v1_random	0	0	0	0
chrY_DS4841 75v1_random	0	0	0	0
chrY_DS4850 28v1_random	0	0	0	0
chrY_DS4837 25v1_random	0	0	0	0
chrY_DS4839 31v1_random	1190	0	0	0
chrY_DS4839 96v1_random	0	0	0	0
chrY_DS4838 75v1_random	2770	0	0	0
chrY_DS4838 89v1_random	0	0	0	0
chrY_DS4840 29v1_random	0	0	0	0
chrY_DS4840 94v1_random	0	0	0	0
chrY_DS4836 77v1_random	0	0	0	0
chrY_DS4837 88v1_random	0	0	0	0

chrY_DS4836 90v1_random	0	0	0	0
chrY_CP0071 09v1_random	0	0	0	0
chrY_CP0071 10v1_random	0	0	0	0
chrY_CP0071 11v1_random	0	0	0	0
chrY_CP0071 12v1_random	0	0	0	0
chrY_CP0071 13v1_random	0	0	0	0
chrY_CP0071 14v1_random	0	0	0	0
chrY_CP0071 15v1_random	0	0	0	0
chrY_CP0071 16v1_random	0	0	0	0
chrY_CP0071 17v1_random	0	0	0	0
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chrY_CP0071 07v1_random	0	0	0	0
chrY_CP0071 08v1_random	0	0	0	0

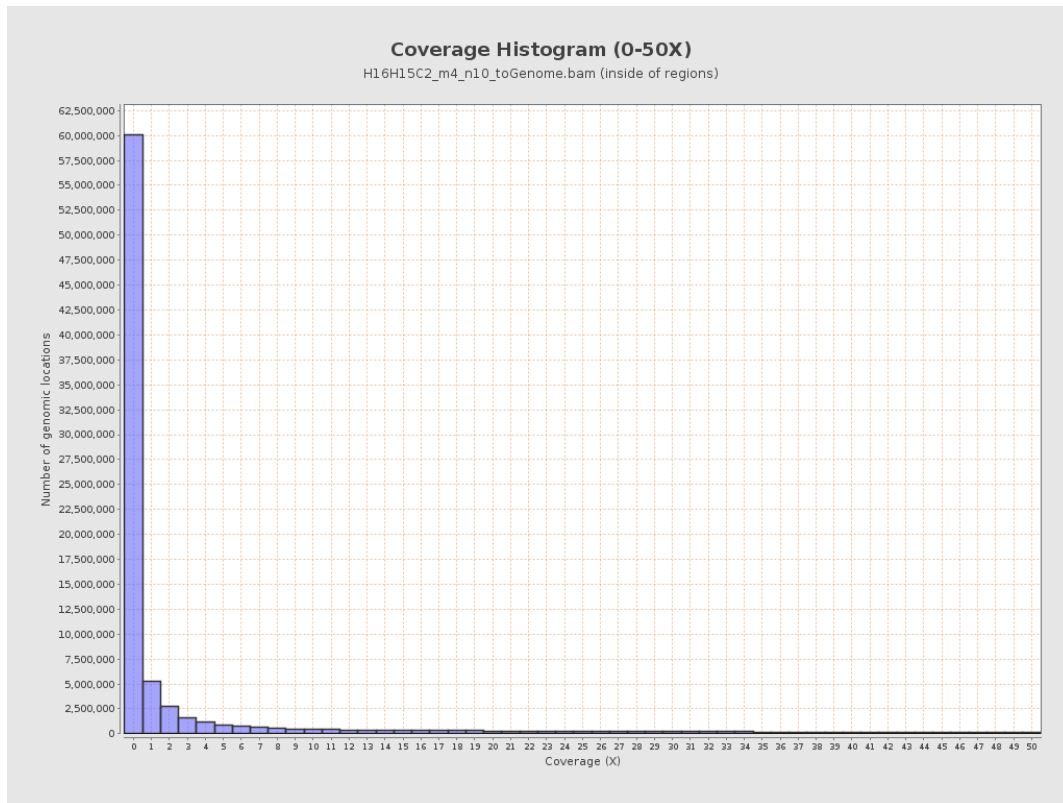
### 3. Results : Coverage across reference (inside of regions)



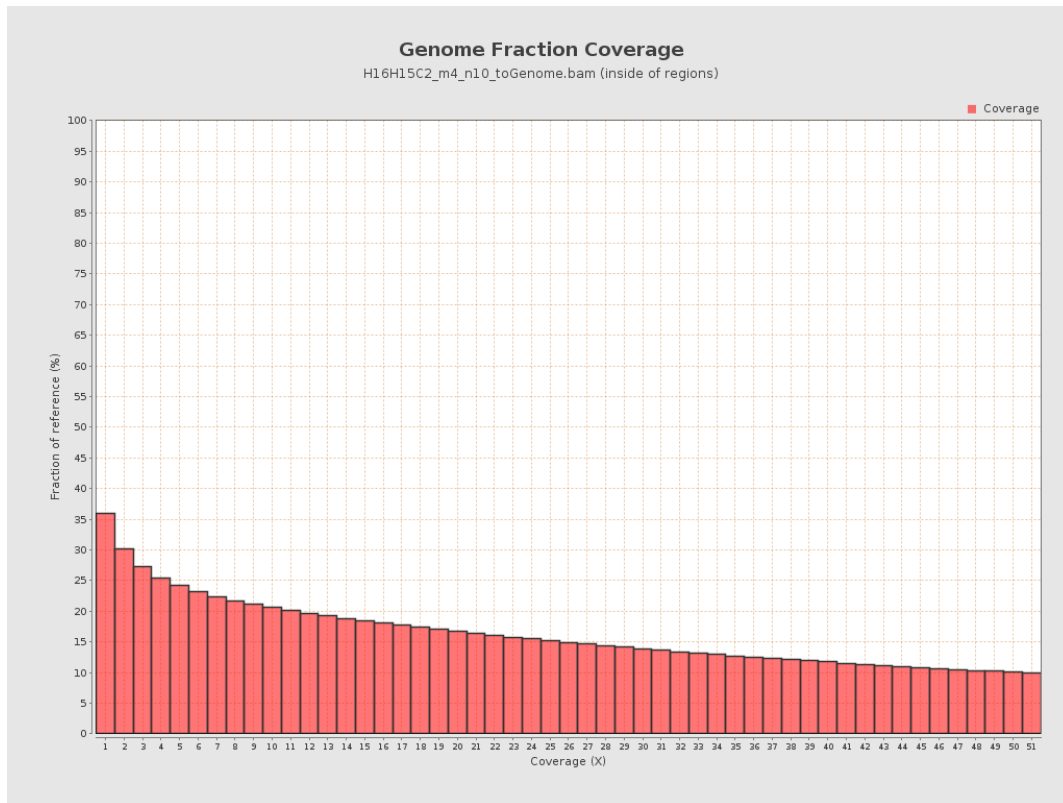
# 4. Results : Coverage Histogram (inside of regions)



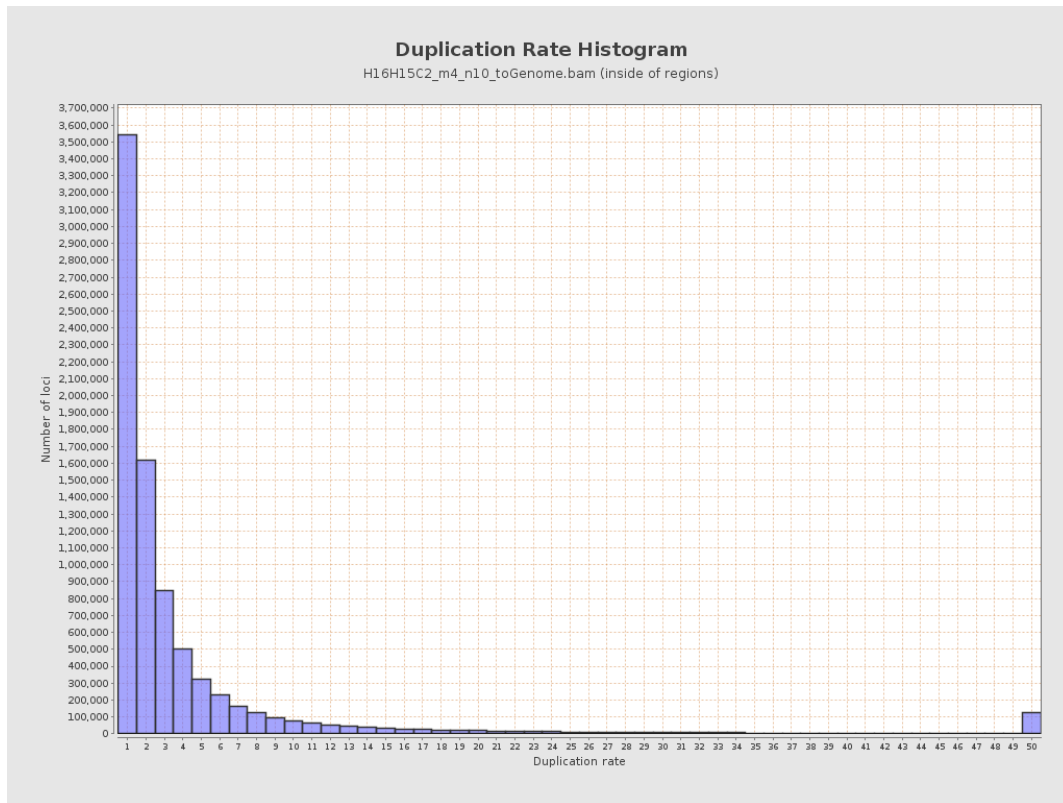
## 5. Results : Coverage Histogram (0-50X) (inside of regions)



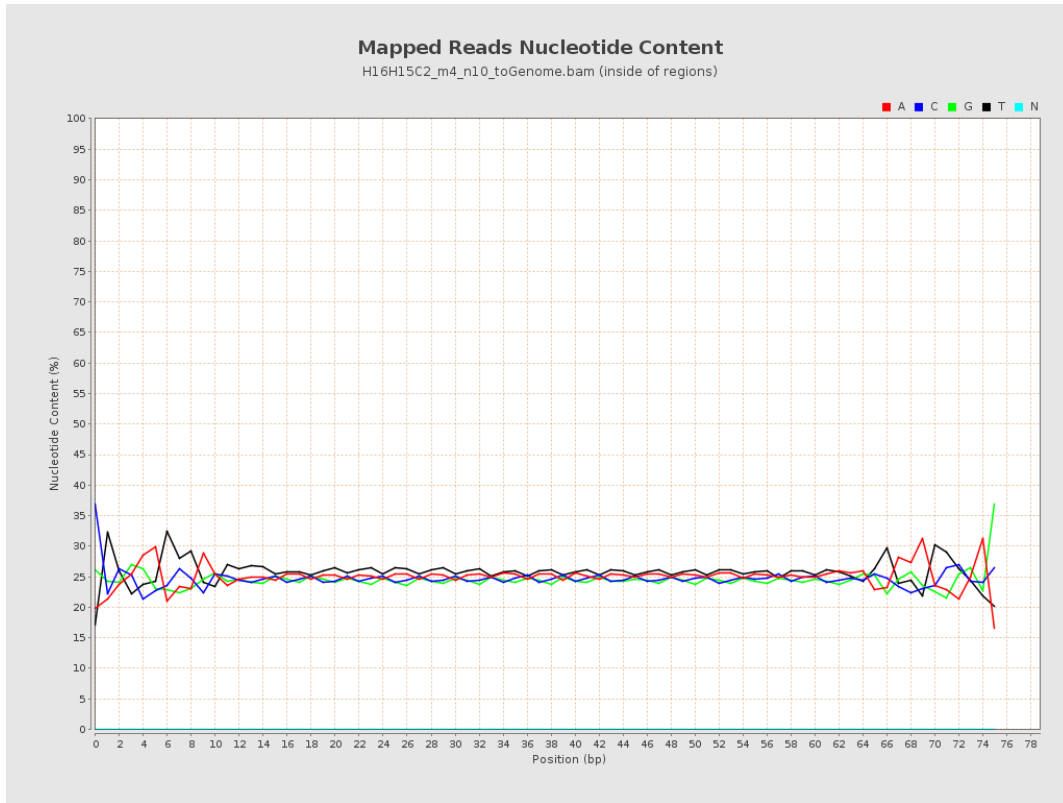
## 6. Results : Genome Fraction Coverage (inside of regions)



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

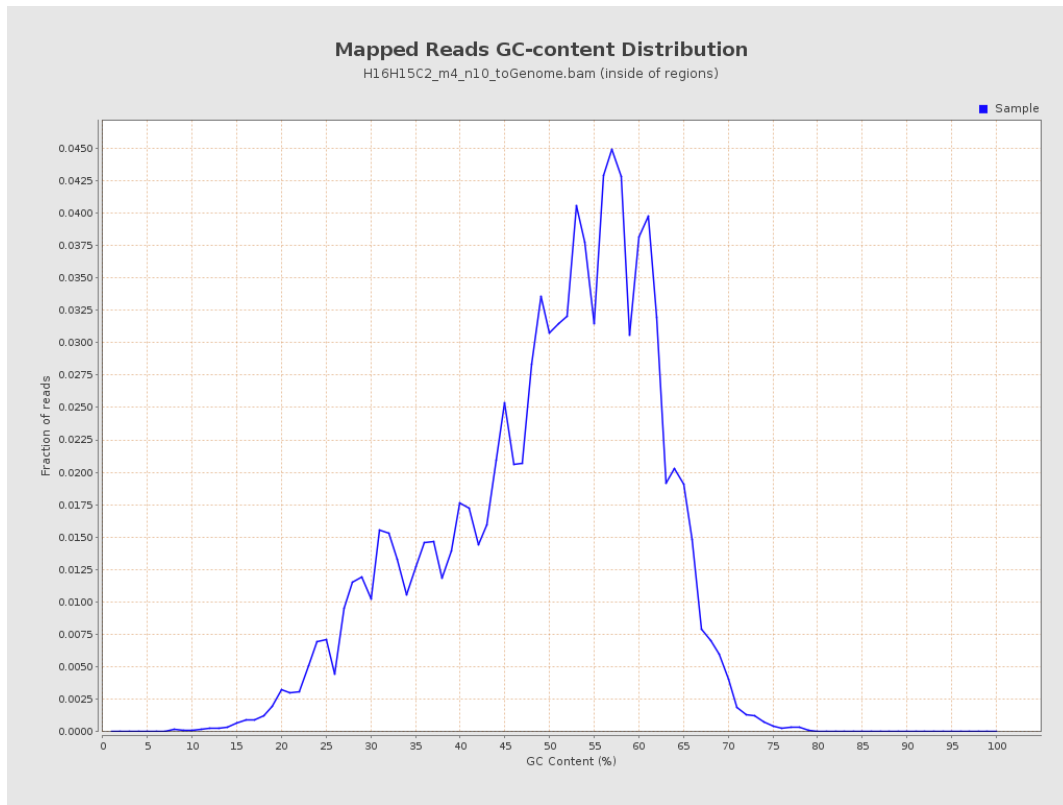


## 8. Results : Mapped Reads Nucleotide Content (inside of regions)

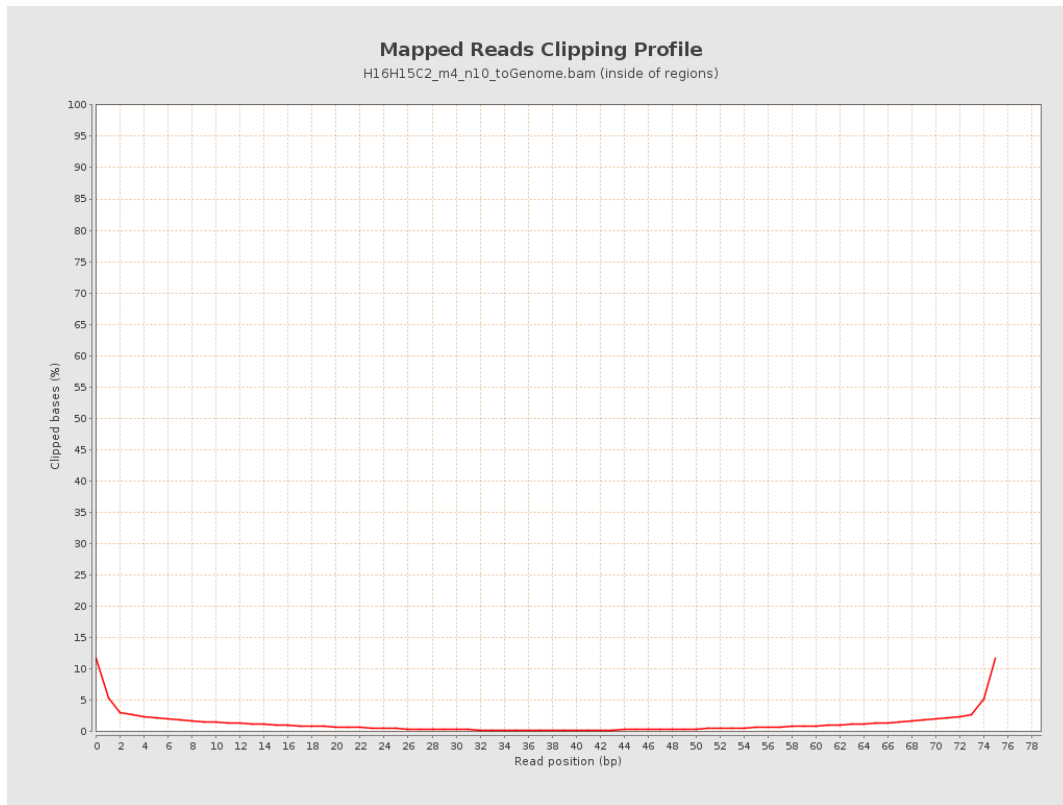




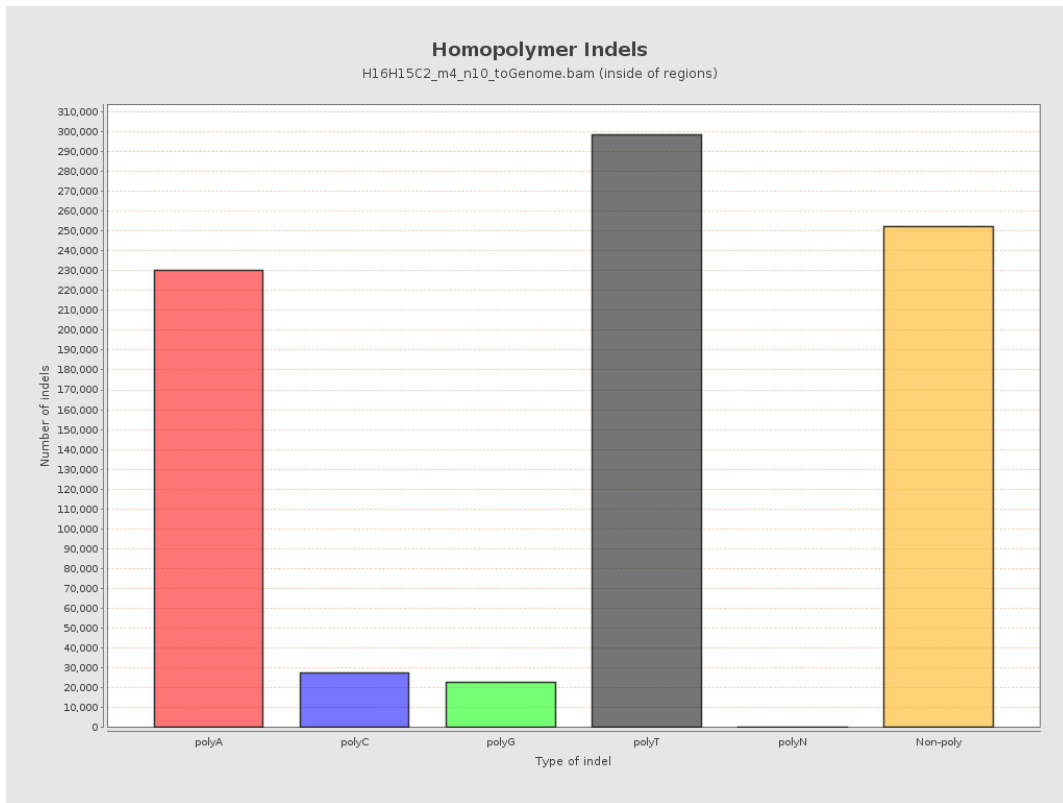
## 9. Results : Mapped Reads GC-content Distribution (inside of regions)



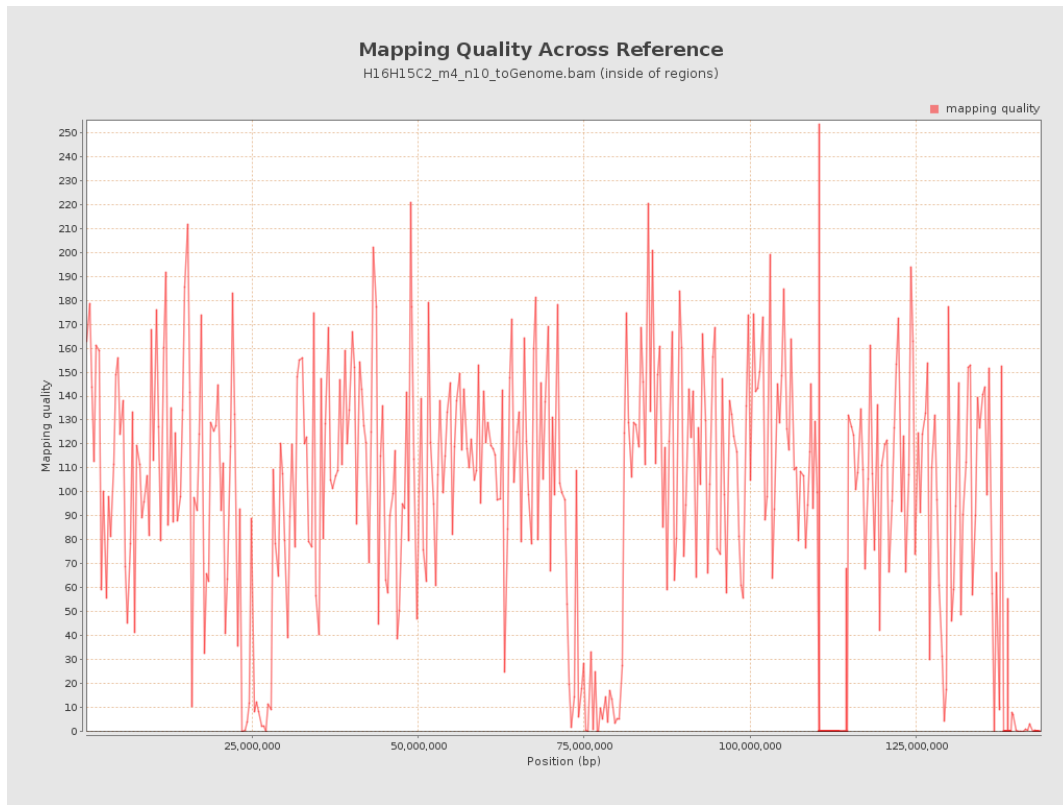
## 10. Results : Mapped Reads Clipping Profile (inside of regions)



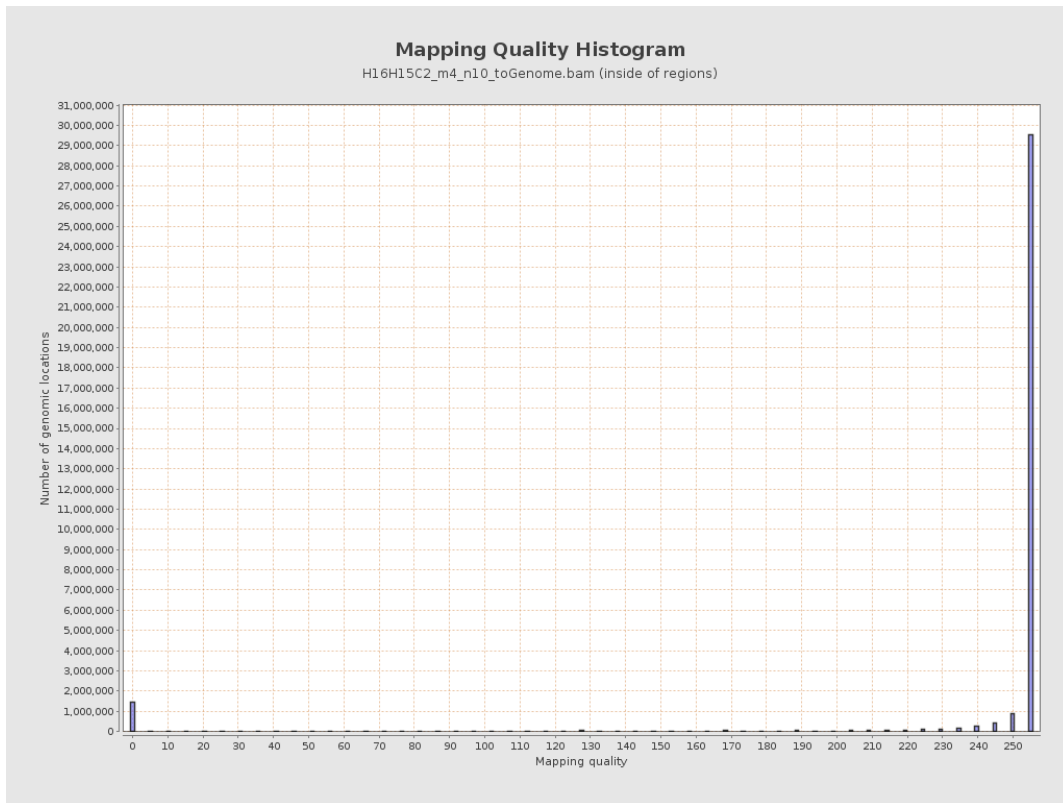
# 11. Results : Homopolymer Indels (inside of regions)



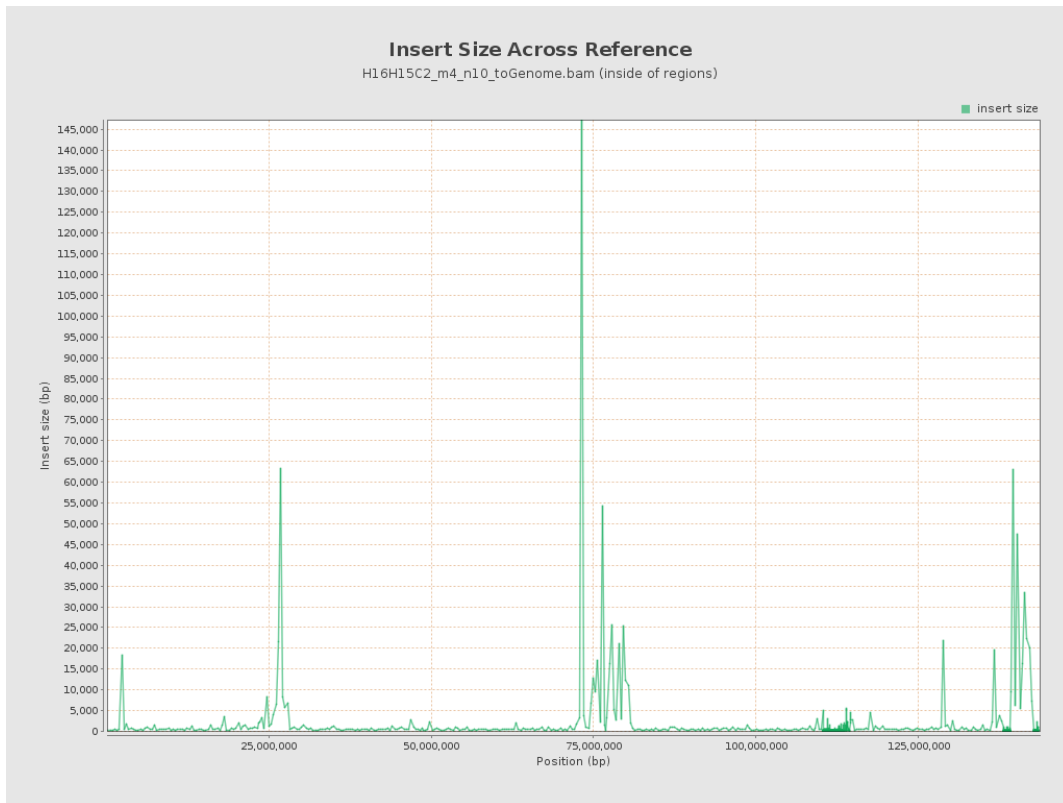
## 12. Results : Mapping Quality Across Reference (inside of regions)



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



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



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

