

# Qualimap Analysis Results

*BAM QC analysis*

*Generated by Qualimap v.2.2.1*

*2019/09/27 16:14:42*

# 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/43/f43283cdcc7c6e1fe9018c1e0b6a6c/H11H00C2_m4_n10_toG
enome.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 C1- dash_R1.fastq.gz C1- dash_R2.fastq.gz -- readFilesCommand pigz -p8 -dc --limitBAMsortRAM 33285996544 -- outSAMtype BAM SortedByCoordinate -- outSAMattributes NH HI AS NM MD --outSAMunmapped Within -- outSAMattrRGline ID:H11H00C2 PU:H11H00C2 SM:H11H00C2 PL:ILLUMINA CN:CRG -- outFilterType BySJout -- outFilterMultimapNmax 10 -- outFilterMismatchNmax 999 -- outFilterMismatchNoverReadLmax 0.04 --alignIntronMin 20 -- alignIntronMax 1000000 -- alignMatesGapMax 1000000 -- alignSJoverhangMin 8 -- alignSJDBoverhangMin 1 -- </pre>
---------------	--

	quantMode TranscriptomeSAM
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	STAR (STAR_2.4.0j)
Analysis date:	Fri Sep 27 16:14:41 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/43/f43283cdcc7c6e1fe9018c1e0b6a6c/H11H00C2_m4_n10_to Genome.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	49,032,844
Mapped reads	45,890,842 / 93.59%
Unmapped reads	3,142,002 / 6.41%
Mapped paired reads	45,890,842 / 93.59%
Mapped reads, first in pair	22,945,421 / 46.8%
Mapped reads, second in pair	22,945,421 / 46.8%
Mapped reads, both in pair	45,890,842 / 93.59%
Mapped reads, singletons	0 / 0%
Read min/max/mean length	76 / 76 / 76
Clipped reads	4,467,820 / 9.11%

### 2.2. Globals (inside of regions)

Regions size/percentage of reference	93,645,580 / 65.16%
Mapped reads	36,751,953 / 74.95%
Mapped reads, only first in pair	18,376,449 / 37.48%
Mapped reads, only second in pair	18,375,504 / 37.48%
Mapped reads, both in pair	36,751,953 / 74.95%
Mapped reads, singletons	0 / 0%
Correct strand reads	0 / 0%
Clipped reads	4,467,820 / 9.11%
Duplicated reads (estimated)	30,525,002 / 83.06%

Duplication rate	50.3%
------------------	-------

### 2.3. ACGT Content (inside of regions)

Number/percentage of A's	695,217,143 / 25.13%
Number/percentage of C's	679,629,882 / 24.57%
Number/percentage of T's	717,039,235 / 25.92%
Number/percentage of G's	674,123,638 / 24.37%
Number/percentage of N's	3,374,944,857 / 122.01%
GC Percentage	48.94%

### 2.4. Coverage (inside of regions)

Mean	65.5808
Standard Deviation	666.2359

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

Mean Mapping Quality	242.7
----------------------	-------

### 2.6. Insert size (inside of regions)

Mean	528.3
Standard Deviation	8,052.3
P25/Median/P75	155 / 204 / 302

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

General error rate	0.34%
Mismatches	20,322,329
Insertions	323,748

Mapped reads with at least one insertion	0.7%
Deletions	178,571
Mapped reads with at least one deletion	0.39%
Homopolymer indels	69.1%

## 2.8. Chromosome stats (inside of regions)

Name	Length	Mapped bases	Mean coverage	Standard deviation
chr2L	15854837	1089478832	68.7159	554.2228
chr2R	16880511	1606780782	95.1856	995.1436
chr3L	18005806	1099009789	61.0364	497.8355
chr3R	23285070	1124535826	48.2943	385.595
chr4	1040043	102908012	98.9459	364.1343
chrM	11009	200300972	18,194.293	22,493.1284
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



chrUn_DS484 058v1	0	0	0	0
chrUn_DS485 294v1	0	0	0	0
chrUn_DS484 855v1	0	0	0	0
chrUn_DS485 356v1	0	0	0	0
chrUn_DS485 246v1	0	0	0	0
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
chrUn_DS485 547v1	0	0	0	0
chrUn_DS485 280v1	0	0	0	0
chrUn_DS483 976v1	0	0	0	0
chrUn_DS484 972v1	0	0	0	0
chrUn_DS484 407v1	0	0	0	0
chrUn_DS484 446v1	0	0	0	0
chrUn_DS485 906v1	0	0	0	0
chrUn_DS484 769v1	0	0	0	0
chrUn_DS484 527v1	0	0	0	0
chrUn_DS484 933v1	0	0	0	0
chrUn_DS483 748v1	0	0	0	0
chrUn_DS484 460v1	0	0	0	0

chrUn_DS483 711v1	0	0	0	0
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
chrUn_DS484 689v1	0	0	0	0
chrUn_DS485 822v1	0	0	0	0
chrUn_DS485 678v1	0	0	0	0
chrUn_DS485 150v1	0	0	0	0
chrUn_DS484 746v1	0	0	0	0
chrUn_DS485 957v1	0	0	0	0
chrUn_DS485 541v1	0	0	0	0
chrUn_DS485 741v1	0	0	0	0
chrUn_DS484 490v1	0	0	0	0
chrUn_DS484 881v1	0	0	0	0

chrUn_DS485 539v1	0	0	0	0
chrUn_DS485 958v1	0	0	0	0
chrUn_DS485 748v1	0	0	0	0
chrUn_DS484 822v1	0	0	0	0
chrUn_DS485 421v1	0	0	0	0
chrUn_DS485 296v1	0	0	0	0
chrUn_DS485 337v1	0	0	0	0
chrUn_DS483 700v1	0	0	0	0
chrUn_DS484 511v1	0	0	0	0
chrUn_DS485 973v1	0	0	0	0
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

chrUn_DS485 073v1	0	0	0	0
chrUn_DS484 257v1	0	0	0	0
chrUn_DS485 376v1	0	0	0	0
chrUn_DS484 485v1	0	0	0	0
chrUn_DS485 572v1	0	0	0	0
chrUn_DS484 816v1	0	0	0	0
chrUn_DS485 925v1	0	0	0	0
chrUn_DS485 239v1	0	0	0	0
chrUn_DS485 853v1	0	0	0	0
chrUn_DS485 443v1	0	0	0	0
chrUn_DS485 381v1	0	0	0	0
chrUn_DS485 339v1	0	0	0	0
chrUn_DS484 707v1	0	0	0	0
chrUn_DS485 675v1	0	0	0	0
chrUn_DS485 065v1	0	0	0	0

chrUn_DS484 546v1	0	0	0	0
chrUn_DS485 846v1	0	0	0	0
chrUn_DS484 667v1	0	0	0	0
chrUn_DS484 756v1	0	0	0	0
chrUn_DS485 558v1	0	0	0	0
chrUn_DS485 703v1	0	0	0	0
chrUn_DS483 977v1	0	0	0	0
chrUn_DS485 341v1	0	0	0	0
chrUn_DS484 226v1	0	0	0	0
chrUn_DS485 505v1	0	0	0	0
chrUn_DS485 451v1	0	0	0	0
chrUn_DS484 736v1	0	0	0	0
chrUn_DS484 304v1	0	0	0	0
chrUn_DS485 024v1	0	0	0	0
chrUn_DS485 808v1	0	0	0	0

chrUn_DS485 578v1	0	0	0	0
chrUn_DS485 029v1	0	0	0	0
chrUn_DS485 634v1	0	0	0	0
chrUn_DS483 877v1	0	0	0	0
chrUn_DS483 723v1	0	0	0	0
chrUn_DS485 038v1	0	0	0	0
chrUn_DS485 788v1	0	0	0	0
chrUn_DS484 496v1	0	0	0	0
chrUn_DS484 841v1	0	0	0	0
chrUn_DS485 123v1	0	0	0	0
chrUn_DS485 261v1	0	0	0	0
chrUn_DS485 673v1	0	0	0	0
chrUn_DS483 879v1	0	0	0	0
chrUn_DS484 716v1	0	0	0	0
chrUn_DS485 907v1	0	0	0	0

chrUn_DS484 100v1	0	0	0	0
chrUn_DS486 008v1	0	0	0	0
chrUn_DS485 747v1	0	0	0	0
chrUn_DS485 891v1	0	0	0	0
chrUn_DS484 329v1	0	0	0	0
chrUn_DS484 653v1	0	0	0	0
chrUn_DS483 692v1	0	0	0	0
chrUn_DS485 387v1	0	0	0	0
chrUn_DS483 938v1	0	0	0	0
chrUn_DS484 073v1	0	0	0	0
chrUn_DS483 957v1	0	0	0	0
chrUn_DS484 050v1	0	0	0	0
chrUn_DS483 694v1	0	0	0	0
chrUn_DS485 407v1	0	0	0	0
chrUn_DS485 357v1	0	0	0	0



chrUn_DS484 122v1	0	0	0	0
chrUn_DS484 548v1	0	0	0	0
chrUn_DS485 254v1	0	0	0	0
chrUn_DS484 988v1	0	0	0	0
chrUn_DS485 205v1	0	0	0	0
chrUn_DS485 793v1	0	0	0	0
chrUn_DS485 496v1	0	0	0	0
chrUn_DS484 904v1	0	0	0	0
chrUn_DS483 707v1	0	0	0	0
chrUn_DS485 365v1	0	0	0	0
chrUn_DS485 789v1	0	0	0	0
chrUn_DS484 842v1	0	0	0	0
chrUn_DS484 180v1	0	0	0	0
chrUn_DS485 333v1	0	0	0	0
chrUn_DS485 954v1	0	0	0	0

chrUn_DS484 202v1	0	0	0	0
chrUn_DS485 825v1	0	0	0	0
chrUn_DS485 285v1	0	0	0	0
chrUn_DS485 223v1	0	0	0	0
chrUn_DS485 313v1	0	0	0	0
chrUn_DS484 567v1	0	0	0	0
chrUn_DS484 040v1	0	0	0	0
chrUn_DS484 475v1	0	0	0	0
chrUn_DS484 168v1	0	0	0	0
chrUn_DS485 711v1	0	0	0	0
chrUn_DS485 475v1	0	0	0	0
chrUn_DS484 532v1	0	0	0	0
chrUn_DS484 751v1	0	0	0	0
chrUn_DS484 229v1	0	0	0	0
chrUn_DS485 870v1	0	0	0	0

chrUn_DS484 787v1	0	0	0	0
chrUn_DS484 277v1	0	0	0	0
chrUn_DS485 304v1	0	0	0	0
chrUn_DS485 794v1	0	0	0	0
chrUn_DS485 226v1	0	0	0	0
chrUn_DS484 470v1	0	0	0	0
chrUn_DS484 303v1	0	0	0	0
chrUn_DS485 506v1	0	0	0	0
chrUn_DS485 522v1	0	0	0	0
chrUn_DS484 505v1	0	0	0	0
chrUn_DS485 854v1	0	0	0	0
chrUn_DS485 342v1	0	0	0	0
chrUn_DS484 739v1	0	0	0	0
chrUn_DS484 452v1	0	0	0	0
chrUn_DS484 720v1	0	0	0	0

chrUn_DS485 722v1	0	0	0	0
chrUn_DS484 522v1	0	0	0	0
chrUn_DS485 781v1	0	0	0	0
chrUn_DS485 542v1	0	0	0	0
chrUn_DS485 821v1	0	0	0	0
chrUn_DS484 350v1	0	0	0	0
chrUn_DS485 623v1	0	0	0	0
chrUn_DS485 989v1	0	0	0	0
chrUn_DS485 743v1	0	0	0	0
chrUn_DS485 872v1	0	0	0	0
chrUn_DS484 190v1	0	0	0	0
chrUn_DS485 240v1	0	0	0	0
chrUn_DS484 844v1	0	0	0	0
chrUn_DS483 695v1	0	0	0	0
chrUn_DS484 798v1	0	0	0	0

chrUn_DS484 096v1	0	0	0	0
chrUn_DS483 799v1	0	0	0	0
chrUn_DS484 843v1	0	0	0	0
chrUn_DS484 659v1	0	0	0	0
chrUn_DS485 864v1	0	0	0	0
chrUn_DS484 825v1	0	0	0	0
chrUn_DS485 229v1	0	0	0	0
chrUn_DS485 773v1	0	0	0	0
chrUn_DS485 659v1	0	0	0	0
chrUn_DS484 993v1	0	0	0	0
chrUn_DS484 896v1	0	0	0	0
chrUn_DS486 005v1	0	0	0	0
chrUn_DS485 047v1	0	0	0	0
chrUn_DS484 069v1	0	0	0	0
chrUn_DS485 138v1	0	0	0	0

chrUn_DS485 929v1	0	0	0	0
chrUn_DS485 886v1	0	0	0	0
chrUn_DS484 493v1	0	0	0	0
chrUn_DS485 661v1	0	0	0	0
chrUn_DS484 866v1	0	0	0	0
chrUn_DS484 772v1	0	0	0	0
chrUn_DS484 727v1	0	0	0	0
chrUn_DS485 838v1	0	0	0	0
chrUn_DS485 701v1	0	0	0	0
chrUn_DS483 936v1	0	0	0	0
chrUn_DS485 581v1	0	0	0	0
chrUn_DS485 019v1	0	0	0	0
chrUn_DS483 940v1	0	0	0	0
chrUn_DS485 810v1	0	0	0	0
chrUn_DS485 982v1	0	0	0	0

chrUn_DS485 165v1	0	0	0	0
chrUn_DS484 404v1	0	0	0	0
chrUn_DS483 736v1	0	0	0	0
chrUn_DS485 654v1	0	0	0	0
chrUn_DS485 415v1	0	0	0	0
chrUn_DS484 275v1	0	0	0	0
chrUn_DS485 255v1	0	0	0	0
chrUn_DS484 383v1	0	0	0	0
chrUn_DS485 331v1	0	0	0	0
chrUn_DS483 901v1	0	0	0	0
chrUn_DS484 884v1	0	0	0	0
chrUn_DS484 515v1	0	0	0	0
chrUn_DS485 883v1	0	0	0	0
chrUn_DS483 703v1	0	0	0	0
chrUn_DS485 311v1	0	0	0	0

chrUn_DS484 897v1	0	0	0	0
chrUn_DS483 933v1	0	0	0	0
chrUn_DS485 740v1	0	0	0	0
chrUn_DS485 290v1	0	0	0	0
chrUn_DS484 481v1	0	0	0	0
chrUn_DS485 349v1	0	0	0	0
chrUn_DS484 454v1	0	0	0	0
chrUn_DS483 808v1	0	0	0	0
chrUn_DS484 976v1	0	0	0	0
chrUn_DS484 311v1	0	0	0	0
chrUn_DS485 089v1	0	0	0	0
chrUn_DS485 985v1	0	0	0	0
chrUn_DS485 753v1	0	0	0	0
chrUn_DS484 776v1	0	0	0	0
chrUn_DS483 864v1	0	0	0	0



chrUn_DS485 132v1	0	0	0	0
chrUn_DS485 209v1	0	0	0	0
chrUn_DS485 693v1	0	0	0	0
chrUn_DS484 210v1	0	0	0	0
chrUn_DS484 764v1	0	0	0	0
chrUn_DS484 999v1	0	0	0	0
chrUn_DS484 232v1	0	0	0	0
chrUn_DS484 262v1	0	0	0	0
chrUn_DS484 076v1	0	0	0	0
chrUn_DS485 437v1	0	0	0	0
chrUn_DS485 515v1	0	0	0	0
chrUn_DS485 199v1	0	0	0	0
chrUn_DS485 462v1	0	0	0	0
chrUn_DS485 501v1	0	0	0	0
chrUn_DS484 710v1	0	0	0	0

chrUn_DS485 153v1	0	0	0	0
chrUn_DS484 920v1	0	0	0	0
chrUn_DS485 163v1	0	0	0	0
chrUn_DS485 940v1	0	0	0	0
chrUn_DS485 650v1	0	0	0	0
chrUn_DS483 849v1	0	0	0	0
chrUn_DS483 972v1	0	0	0	0
chrUn_DS485 242v1	0	0	0	0
chrUn_DS485 056v1	0	0	0	0
chrUn_DS485 683v1	0	0	0	0
chrUn_DS483 682v1	0	0	0	0
chrUn_DS484 478v1	0	0	0	0
chrUn_DS485 325v1	0	0	0	0
chrUn_DS484 054v1	0	0	0	0
chrUn_DS484 771v1	0	0	0	0

chrUn_DS485 477v1	0	0	0	0
chrUn_DS484 170v1	0	0	0	0
chrUn_DS484 922v1	0	0	0	0
chrUn_DS484 160v1	0	0	0	0
chrUn_DS485 812v1	0	0	0	0
chrUn_DS485 438v1	0	0	0	0
chrUn_DS485 102v1	0	0	0	0
chrUn_DS485 082v1	0	0	0	0
chrUn_DS483 743v1	0	0	0	0
chrUn_DS484 282v1	0	0	0	0
chrUn_DS485 664v1	0	0	0	0
chrUn_DS484 369v1	0	0	0	0
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
chrUn_DS485 900v1	0	0	0	0
chrUn_DS485 545v1	0	0	0	0
chrUn_DS485 076v1	0	0	0	0
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
chrUn_DS483 845v1	0	0	0	0
chrUn_DS484 251v1	0	0	0	0

chrUn_DS485 442v1	0	0	0	0
chrUn_DS484 559v1	0	0	0	0
chrUn_DS485 062v1	0	0	0	0
chrUn_DS484 333v1	0	0	0	0
chrUn_DS484 207v1	0	0	0	0
chrUn_DS485 322v1	0	0	0	0
chrUn_DS484 309v1	0	0	0	0
chrUn_DS485 100v1	0	0	0	0
chrUn_DS485 526v1	0	0	0	0
chrUn_DS483 914v1	0	0	0	0
chrUn_DS485 362v1	0	0	0	0
chrUn_DS484 760v1	0	0	0	0
chrUn_DS485 893v1	0	0	0	0
chrUn_DS484 846v1	0	0	0	0
chrUn_DS485 249v1	0	0	0	0

chrUn_DS484 102v1	0	0	0	0
chrUn_DS484 380v1	0	0	0	0
chrUn_DS485 466v1	0	0	0	0
chrUn_DS483 805v1	0	0	0	0
chrUn_DS485 000v1	0	0	0	0
chrUn_DS484 243v1	0	0	0	0
chrUn_DS483 871v1	0	0	0	0
chrUn_DS484 436v1	0	0	0	0
chrUn_DS484 713v1	0	0	0	0
chrUn_DS485 863v1	0	0	0	0
chrUn_DS485 905v1	0	0	0	0
chrUn_DS485 055v1	0	0	0	0
chrUn_DS483 712v1	0	0	0	0
chrUn_DS484 152v1	0	0	0	0
chrUn_DS485 472v1	0	0	0	0

chrUn_DS483 678v1	0	0	0	0
chrUn_DS484 709v1	0	0	0	0
chrUn_DS485 026v1	0	0	0	0
chrUn_DS484 508v1	0	0	0	0
chrUn_DS485 842v1	0	0	0	0
chrUn_DS485 826v1	0	0	0	0
chrUn_DS484 578v1	0	0	0	0
chrUn_DS485 766v1	0	0	0	0
chrUn_DS484 654v1	0	0	0	0
chrUn_DS485 058v1	0	0	0	0
chrUn_DS485 828v1	0	0	0	0
chrUn_DS484 301v1	0	0	0	0
chrUn_DS483 740v1	0	0	0	0
chrUn_DS484 606v1	0	0	0	0
chrUn_DS484 220v1	0	0	0	0



chrUn_DS484 355v1	0	0	0	0
chrUn_DS485 682v1	0	0	0	0
chrUn_DS485 563v1	0	0	0	0
chrUn_DS485 059v1	0	0	0	0
chrUn_DS486 004v1	0	0	0	0
chrUn_DS485 173v1	0	0	0	0
chrUn_DS483 759v1	0	0	0	0
chrUn_DS484 111v1	0	0	0	0
chrUn_DS483 674v1	0	0	0	0
chrUn_DS484 895v1	0	0	0	0
chrUn_DS484 577v1	0	0	0	0
chrUn_DS484 400v1	0	0	0	0
chrUn_DS484 721v1	0	0	0	0
chrUn_DS485 529v1	0	0	0	0
chrUn_DS484 445v1	0	0	0	0

chrUn_DS484 991v1	0	0	0	0
chrUn_DS484 642v1	0	0	0	0
chrUn_DS485 868v1	0	0	0	0
chrUn_DS485 607v1	0	0	0	0
chrUn_DS483 876v1	0	0	0	0
chrUn_DS485 867v1	0	0	0	0
chrUn_DS485 509v1	0	0	0	0
chrUn_DS484 241v1	0	0	0	0
chrUn_DS485 605v1	0	0	0	0
chrUn_DS484 331v1	0	0	0	0
chrUn_DS484 106v1	0	0	0	0
chrUn_DS485 368v1	0	0	0	0
chrUn_DS484 276v1	0	0	0	0
chrUn_DS485 005v1	0	0	0	0
chrUn_DS485 469v1	0	0	0	0

chrUn_DS485 566v2	0	0	0	0
chrUn_DS483 855v1	0	0	0	0
chrUn_DS483 662v1	0	0	0	0
chrUn_DS485 260v1	0	0	0	0
chrUn_DS484 469v1	0	0	0	0
chrUn_DS484 601v1	0	0	0	0
chrUn_DS483 681v1	0	0	0	0
chrUn_DS484 916v1	0	0	0	0
chrUn_DS484 385v1	0	0	0	0
chrUn_DS485 557v1	0	0	0	0
chrUn_DS485 997v1	0	0	0	0
chrUn_DS484 960v1	0	0	0	0
chrUn_DS483 726v1	0	0	0	0
chrUn_DS485 456v1	0	0	0	0
chrUn_DS484 246v1	0	0	0	0

chrUn_DS485 887v1	0	0	0	0
chrUn_DS484 396v1	0	0	0	0
chrUn_DS485 902v1	0	0	0	0
chrUn_DS484 629v1	0	0	0	0
chrUn_DS484 310v1	0	0	0	0
chrUn_DS485 117v1	0	0	0	0
chrUn_DS485 468v1	0	0	0	0
chrUn_DS484 263v1	0	0	0	0
chrUn_DS485 224v1	0	0	0	0
chrUn_DS485 156v1	0	0	0	0
chrUn_DS484 501v1	0	0	0	0
chrUn_DS485 991v1	0	0	0	0
chrUn_DS485 964v1	0	0	0	0
chrUn_DS485 361v1	0	0	0	0
chrUn_DS484 593v1	0	0	0	0

chrUn_DS485 681v1	0	0	0	0
chrUn_DS484 982v1	0	0	0	0
chrUn_DS485 136v1	0	0	0	0
chrUn_DS483 738v1	0	0	0	0
chrUn_DS483 783v1	0	0	0	0
chrUn_DS485 411v1	0	0	0	0
chrUn_DS485 729v1	0	0	0	0
chrUn_DS485 622v1	0	0	0	0
chrUn_DS484 796v1	0	0	0	0
chrUn_DS485 671v1	0	0	0	0
chrUn_DS485 684v1	0	0	0	0
chrUn_DS485 148v1	0	0	0	0
chrUn_DS484 188v1	0	0	0	0
chrUn_DS484 566v1	0	0	0	0
chrUn_DS484 646v1	0	0	0	0

chrUn_DS485 588v1	0	0	0	0
chrUn_DS484 498v1	0	0	0	0
chrUn_DS485 820v1	0	0	0	0
chrUn_DS484 048v1	0	0	0	0
chrUn_DS485 079v1	0	0	0	0
chrUn_DS485 420v1	0	0	0	0
chrUn_DS483 772v1	0	0	0	0
chrUn_DS484 281v1	0	0	0	0
chrUn_DS484 059v1	0	0	0	0
chrUn_DS485 969v1	0	0	0	0
chrUn_DS485 027v1	0	0	0	0
chrUn_DS485 133v1	0	0	0	0
chrUn_DS485 192v1	0	0	0	0
chrUn_DS483 693v1	0	0	0	0
chrUn_DS484 228v1	0	0	0	0

chrUn_DS484 239v1	0	0	0	0
chrUn_DS484 595v1	0	0	0	0
chrUn_DS484 274v1	0	0	0	0
chrUn_DS485 917v1	0	0	0	0
chrUn_DS484 320v1	0	0	0	0
chrUn_DS484 480v1	0	0	0	0
chrUn_DS484 579v1	0	0	0	0
chrUn_DS485 980v1	0	0	0	0
chrUn_DS485 531v1	0	0	0	0
chrUn_DS484 806v1	0	0	0	0
chrUn_DS484 782v1	0	0	0	0
chrUn_DS484 639v1	0	0	0	0
chrUn_DS485 494v1	0	0	0	0
chrUn_DS484 238v1	0	0	0	0
chrUn_DS485 965v1	0	0	0	0

chrUn_DS484 514v1	0	0	0	0
chrUn_DS485 092v1	0	0	0	0
chrUn_DS485 518v1	0	0	0	0
chrUn_DS485 453v1	0	0	0	0
chrUn_DS484 542v1	0	0	0	0
chrUn_DS483 970v1	0	0	0	0
chrUn_DS484 632v1	0	0	0	0
chrUn_DS485 401v1	0	0	0	0
chrUn_DS484 193v1	0	0	0	0
chrUn_DS484 487v1	0	0	0	0
chrUn_DS484 087v1	0	0	0	0
chrUn_DS485 517v1	0	0	0	0
chrUn_DS485 742v1	0	0	0	0
chrUn_DS483 919v1	0	0	0	0
chrUn_DS484 748v1	0	0	0	0



chrUn_DS484 312v1	0	0	0	0
chrUn_DS485 679v1	0	0	0	0
chrUn_DS483 797v1	0	0	0	0
chrUn_DS485 803v1	0	0	0	0
chrUn_DS484 315v1	0	0	0	0
chrUn_DS485 912v1	0	0	0	0
chrUn_DS484 027v1	0	0	0	0
chrUn_DS485 122v1	0	0	0	0
chrUn_DS485 847v1	0	0	0	0
chrUn_DS484 941v1	0	0	0	0
chrUn_DS483 734v1	0	0	0	0
chrUn_DS484 510v1	0	0	0	0
chrUn_DS484 028v1	0	0	0	0
chrUn_DS484 561v1	0	0	0	0
chrUn_DS485 802v1	0	0	0	0

chrUn_DS484 118v1	0	0	0	0
chrUn_DS485 915v1	0	0	0	0
chrUn_DS485 933v1	0	0	0	0
chrUn_DS485 371v1	0	0	0	0
chrUn_DS484 437v1	0	0	0	0
chrUn_DS484 155v1	0	0	0	0
chrUn_DS485 298v1	0	0	0	0
chrUn_DS485 007v1	0	0	0	0
chrUn_DS484 899v1	0	0	0	0
chrUn_DS485 544v1	0	0	0	0
chrUn_DS485 841v1	0	0	0	0
chrUn_DS485 614v1	0	0	0	0
chrUn_DS484 651v1	0	0	0	0
chrUn_DS485 968v1	0	0	0	0
chrUn_DS484 962v1	0	0	0	0

chrUn_DS483 840v1	0	0	0	0
chrUn_DS483 739v1	0	0	0	0
chrUn_DS485 903v1	0	0	0	0
chrUn_DS485 983v1	0	0	0	0
chrUn_DS484 984v1	0	0	0	0
chrUn_DS485 582v1	0	0	0	0
chrUn_DS485 880v1	0	0	0	0
chrUn_DS485 273v1	0	0	0	0
chrUn_DS485 583v1	0	0	0	0
chrUn_DS485 309v1	0	0	0	0
chrUn_DS485 428v1	0	0	0	0
chrUn_DS484 967v1	0	0	0	0
chrUn_DS484 910v1	0	0	0	0
chrUn_DS484 550v1	0	0	0	0
chrUn_DS485 666v1	0	0	0	0

chrUn_DS483 944v1	0	0	0	0
chrUn_DS484 894v1	0	0	0	0
chrUn_DS483 908v1	0	0	0	0
chrUn_DS484 244v1	0	0	0	0
chrUn_DS485 632v1	0	0	0	0
chrUn_DS485 291v1	0	0	0	0
chrUn_DS484 472v1	0	0	0	0
chrUn_DS485 045v1	0	0	0	0
chrUn_DS483 792v1	0	0	0	0
chrUn_DS485 986v1	0	0	0	0
chrUn_DS485 823v1	0	0	0	0
chrUn_DS483 848v1	0	0	0	0
chrUn_DS484 886v1	0	0	0	0
chrUn_DS484 025v1	0	0	0	0
chrUn_DS483 856v1	0	0	0	0

chrUn_DS485 543v1	0	0	0	0
chrUn_DS485 520v1	0	0	0	0
chrUn_DS485 725v1	0	0	0	0
chrUn_DS485 264v1	0	0	0	0
chrUn_DS485 497v1	0	0	0	0
chrUn_DS485 996v1	0	0	0	0
chrUn_DS485 025v1	0	0	0	0
chrUn_DS485 118v1	0	0	0	0
chrUn_DS485 220v1	0	0	0	0
chrUn_DS485 569v1	0	0	0	0
chrUn_DS484 919v1	0	0	0	0
chrUn_DS484 149v1	0	0	0	0
chrUn_DS485 127v1	0	0	0	0
chrUn_DS485 439v1	0	0	0	0
chrUn_DS483 673v1	0	0	0	0

chrUn_DS484 929v1	0	0	0	0
chrUn_DS485 441v1	0	0	0	0
chrUn_DS483 701v1	0	0	0	0
chrUn_DS485 796v1	0	0	0	0
chrUn_DS485 218v1	0	0	0	0
chrUn_DS485 712v1	0	0	0	0
chrUn_DS483 979v1	0	0	0	0
chrUn_DS485 087v1	0	0	0	0
chrUn_DS484 889v1	0	0	0	0
chrUn_DS484 291v1	0	0	0	0
chrUn_DS485 053v1	0	0	0	0
chrUn_DS484 093v1	0	0	0	0
chrUn_DS485 850v1	0	0	0	0
chrUn_DS485 243v1	0	0	0	0
chrUn_DS485 215v1	0	0	0	0

chrUn_DS485 370v1	0	0	0	0
chrUn_DS483 825v1	0	0	0	0
chrUn_DS484 658v1	0	0	0	0
chrUn_DS483 820v1	0	0	0	0
chrUn_DS484 851v1	0	0	0	0
chrUn_DS483 688v1	0	0	0	0
chrUn_DS485 233v1	0	0	0	0
chrUn_DS483 853v1	0	0	0	0
chrUn_DS484 847v1	0	0	0	0
chrUn_DS485 818v1	0	0	0	0
chrUn_DS485 383v1	0	0	0	0
chrUn_DS484 435v1	0	0	0	0
chrUn_DS484 565v1	0	0	0	0
chrUn_DS485 379v1	0	0	0	0
chrUn_DS484 403v1	0	0	0	0

chrUn_DS483 930v1	0	0	0	0
chrUn_DS484 370v1	0	0	0	0
chrUn_DS485 203v1	0	0	0	0
chrUn_DS484 635v1	0	0	0	0
chrUn_DS484 231v1	0	0	0	0
chrUn_DS485 392v1	0	0	0	0
chrUn_DS484 098v1	0	0	0	0
chrUn_DS484 678v1	0	0	0	0
chrUn_DS485 521v1	0	0	0	0
chrUn_DS485 251v1	0	0	0	0
chrUn_DS483 675v1	0	0	0	0
chrUn_DS485 775v1	0	0	0	0
chrUn_DS484 838v1	0	0	0	0
chrUn_DS485 263v1	0	0	0	0
chrUn_DS484 804v1	0	0	0	0



chrUn_DS485 571v1	0	0	0	0
chrUn_DS484 236v1	0	0	0	0
chrUn_DS484 954v1	0	0	0	0
chrUn_DS484 467v1	0	0	0	0
chrUn_DS484 148v1	0	0	0	0
chrUn_DS484 817v1	0	0	0	0
chrUn_DS483 741v1	0	0	0	0
chrUn_DS485 911v1	0	0	0	0
chrUn_DS484 157v1	0	0	0	0
chrUn_DS484 852v1	0	0	0	0
chrUn_DS485 636v1	0	0	0	0
chrUn_DS484 588v1	0	0	0	0
chrUn_DS483 769v1	0	0	0	0
chrUn_DS484 779v1	0	0	0	0
chrUn_DS485 326v1	0	0	0	0

chrUn_DS485 642v1	0	0	0	0
chrUn_DS485 184v1	0	0	0	0
chrUn_DS485 228v1	0	0	0	0
chrUn_DS483 663v1	0	0	0	0
chrUn_DS483 804v1	0	0	0	0
chrUn_DS484 169v1	0	0	0	0
chrUn_DS485 491v1	0	0	0	0
chrUn_DS485 657v1	0	0	0	0
chrUn_DS484 520v1	0	0	0	0
chrUn_DS485 780v1	0	0	0	0
chrUn_DS484 253v1	0	0	0	0
chrUn_DS484 591v1	0	0	0	0
chrUn_DS484 673v1	0	0	0	0
chrUn_DS485 528v1	0	0	0	0
chrUn_DS485 656v1	0	0	0	0

chrUn_DS483 659v1	0	0	0	0
chrUn_DS485 011v1	0	0	0	0
chrUn_DS485 737v1	0	0	0	0
chrUn_DS485 160v1	0	0	0	0
chrUn_DS485 208v1	0	0	0	0
chrUn_DS485 717v1	0	0	0	0
chrUn_DS484 882v1	0	0	0	0
chrUn_DS483 686v1	0	0	0	0
chrUn_DS485 876v1	0	0	0	0
chrUn_DS484 831v1	0	0	0	0
chrUn_DS484 205v1	0	0	0	0
chrUn_DS485 434v1	0	0	0	0
chrUn_DS484 003v1	0	0	0	0
chrUn_DS485 948v1	0	0	0	0
chrUn_DS484 340v1	0	0	0	0

chrUn_DS483 965v1	0	0	0	0
chrUn_DS485 068v1	0	0	0	0
chrUn_DS485 533v1	0	0	0	0
chrUn_DS484 774v1	0	0	0	0
chrUn_DS485 292v1	0	0	0	0
chrUn_DS484 156v1	0	0	0	0
chrUn_DS485 709v1	0	0	0	0
chrUn_DS485 947v1	0	0	0	0
chrUn_DS484 544v1	0	0	0	0
chrUn_DS484 524v1	0	0	0	0
chrUn_DS485 275v1	0	0	0	0
chrUn_DS485 527v1	0	0	0	0
chrUn_DS484 619v1	0	0	0	0
chrUn_DS483 801v1	0	0	0	0
chrUn_DS484 307v1	0	0	0	0

chrUn_DS483 687v1	0	0	0	0
chrUn_DS484 463v1	0	0	0	0
chrUn_DS485 939v1	0	0	0	0
chrUn_DS485 146v1	0	0	0	0
chrUn_DS485 174v1	0	0	0	0
chrUn_DS485 194v1	0	0	0	0
chrUn_DS484 283v1	0	0	0	0
chrUn_DS485 500v1	0	0	0	0
chrUn_DS484 183v1	0	0	0	0
chrUn_DS484 499v1	0	0	0	0
chrUn_DS485 338v1	0	0	0	0
chrUn_DS485 036v1	0	0	0	0
chrUn_DS484 553v1	0	0	0	0
chrUn_DS485 587v1	0	0	0	0
chrUn_DS485 265v1	0	0	0	0

chrUn_DS484 425v1	0	0	0	0
chrUn_DS484 802v1	0	0	0	0
chrUn_DS485 538v1	0	0	0	0
chrUn_DS483 872v1	0	0	0	0
chrUn_DS485 319v1	0	0	0	0
chrUn_DS484 752v1	0	0	0	0
chrUn_DS485 630v1	0	0	0	0
chrUn_DS483 915v1	0	0	0	0
chrUn_DS485 161v1	0	0	0	0
chrUn_DS485 482v1	0	0	0	0
chrUn_DS484 943v1	0	0	0	0
chrUn_DS484 722v1	0	0	0	0
chrUn_DS485 010v1	0	0	0	0
chrUn_DS485 952v1	0	0	0	0
chrUn_DS484 869v1	0	0	0	0

chrUn_DS483 749v1	0	0	0	0
chrUn_DS484 799v1	0	0	0	0
chrUn_DS484 998v1	0	0	0	0
chrUn_DS484 041v1	0	0	0	0
chrUn_DS483 841v1	0	0	0	0
chrUn_DS485 031v1	0	0	0	0
chrUn_DS484 254v1	0	0	0	0
chrUn_DS484 279v1	0	0	0	0
chrUn_DS484 503v1	0	0	0	0
chrUn_DS483 658v1	0	0	0	0
chrUn_DS485 397v1	0	0	0	0
chrUn_DS485 004v1	0	0	0	0
chrUn_DS485 046v1	0	0	0	0
chrUn_DS485 382v1	0	0	0	0
chrUn_DS485 728v1	0	0	0	0

chrUn_DS485 125v1	0	0	0	0
chrUn_DS485 200v1	0	0	0	0
chrUn_DS484 471v1	0	0	0	0
chrUn_DS483 750v1	0	0	0	0
chrUn_DS485 946v1	0	0	0	0
chrUn_DS484 874v1	0	0	0	0
chrUn_DS485 258v1	0	0	0	0
chrUn_DS485 833v1	0	0	0	0
chrUn_DS485 944v1	0	0	0	0
chrUn_DS485 714v1	0	0	0	0
chrUn_DS483 920v1	0	0	0	0
chrUn_DS485 464v1	0	0	0	0
chrUn_DS484 614v1	0	0	0	0
chrUn_DS484 153v1	0	0	0	0
chrUn_DS485 461v1	0	0	0	0



chrUn_DS484 828v1	0	0	0	0
chrUn_DS484 834v1	0	0	0	0
chrUn_DS483 913v1	0	0	0	0
chrUn_DS483 670v1	0	0	0	0
chrUn_DS484 427v1	0	0	0	0
chrUn_DS485 247v1	0	0	0	0
chrUn_DS484 083v1	0	0	0	0
chrUn_DS485 530v1	0	0	0	0
chrUn_DS485 020v1	0	0	0	0
chrUn_DS485 827v1	0	0	0	0
chrUn_DS484 047v1	0	0	0	0
chrUn_DS485 149v1	0	0	0	0
chrUn_DS484 287v1	0	0	0	0
chrUn_DS485 655v1	0	0	0	0
chrUn_DS485 757v1	0	0	0	0

chrUn_DS484 062v1	0	0	0	0
chrUn_DS485 932v1	0	0	0	0
chrUn_DS484 348v1	0	0	0	0
chrUn_DS484 686v1	0	0	0	0
chrUn_DS485 253v1	0	0	0	0
chrUn_DS485 953v1	0	0	0	0
chrUn_DS484 812v1	0	0	0	0
chrUn_DS484 449v1	0	0	0	0
chrUn_DS485 032v1	0	0	0	0
chrUn_DS484 438v1	0	0	0	0
chrUn_DS485 923v1	0	0	0	0
chrUn_DS484 314v1	0	0	0	0
chrUn_DS485 306v1	0	0	0	0
chrUn_DS483 975v1	0	0	0	0
chrUn_DS485 770v1	0	0	0	0

chrUn_DS485 204v1	0	0	0	0
chrUn_DS484 502v1	0	0	0	0
chrUn_DS485 667v1	0	0	0	0
chrUn_DS483 679v1	0	0	0	0
chrUn_DS484 080v1	0	0	0	0
chrUn_DS484 712v1	0	0	0	0
chrUn_DS484 742v1	0	0	0	0
chrUn_DS483 939v1	0	0	0	0
chrUn_DS485 535v1	0	0	0	0
chrUn_DS484 258v1	0	0	0	0
chrUn_DS484 285v1	0	0	0	0
chrUn_DS484 509v1	0	0	0	0
chrUn_DS485 211v1	0	0	0	0
chrUn_DS483 867v1	0	0	0	0
chrUn_DS485 066v1	0	0	0	0

chrUn_DS484 630v1	0	0	0	0
chrUn_DS484 271v1	0	0	0	0
chrUn_DS484 117v1	0	0	0	0
chrUn_DS484 042v1	0	0	0	0
chrUn_DS483 746v1	0	0	0	0
chrUn_DS484 932v1	0	0	0	0
chrUn_DS485 177v1	0	0	0	0
chrUn_DS485 540v1	0	0	0	0
chrUn_DS484 815v1	0	0	0	0
chrUn_DS483 989v1	0	0	0	0
chrUn_DS483 767v1	0	0	0	0
chrUn_DS485 621v1	0	0	0	0
chrUn_DS483 782v1	0	0	0	0
chrUn_DS485 774v1	0	0	0	0
chrUn_DS483 862v1	0	0	0	0

chrUn_DS484 513v1	0	0	0	0
chrUn_DS484 878v1	0	0	0	0
chrUn_DS483 737v1	0	0	0	0
chrUn_DS483 689v1	0	0	0	0
chrUn_DS484 671v1	0	0	0	0
chrUn_DS484 255v1	0	0	0	0
chrUn_DS485 481v1	0	0	0	0
chrUn_DS484 528v1	0	0	0	0
chrUn_DS484 797v1	0	0	0	0
chrUn_DS485 874v1	0	0	0	0
chrUn_DS484 286v1	0	0	0	0
chrUn_DS484 177v1	0	0	0	0
chrUn_DS483 816v1	0	0	0	0
chrUn_DS484 584v1	0	0	0	0
chrUn_DS485 574v1	0	0	0	0

chrUn_DS485 022v1	0	0	0	0
chrUn_DS485 750v1	0	0	0	0
chrUn_DS483 815v1	0	0	0	0
chrUn_DS484 389v1	0	0	0	0
chrUn_DS484 656v1	0	0	0	0
chrUn_DS485 567v1	0	0	0	0
chrUn_DS484 692v1	0	0	0	0
chrUn_DS483 858v1	0	0	0	0
chrUn_DS484 458v1	0	0	0	0
chrUn_DS485 628v1	0	0	0	0
chrUn_DS483 961v1	0	0	0	0
chrUn_DS485 966v1	0	0	0	0
chrUn_DS484 147v1	0	0	0	0
chrUn_DS484 378v1	0	0	0	0
chrUn_DS485 754v1	0	0	0	0

chrUn_DS484 017v1	0	0	0	0
chrUn_DS485 918v1	0	0	0	0
chrUn_DS485 314v1	0	0	0	0
chrUn_DS485 692v1	0	0	0	0
chrUn_DS484 300v1	0	0	0	0
chrUn_DS483 953v1	0	0	0	0
chrUn_DS484 138v1	0	0	0	0
chrUn_DS485 593v1	0	0	0	0
chrUn_DS484 342v1	0	0	0	0
chrUn_DS484 557v1	0	0	0	0
chrUn_DS484 685v1	0	0	0	0
chrUn_DS484 607v1	0	0	0	0
chrUn_DS484 189v1	0	0	0	0
chrUn_DS485 610v1	0	0	0	0
chrUn_DS485 151v1	0	0	0	0

chrUn_DS484 267v1	0	0	0	0
chrUn_DS484 020v1	0	0	0	0
chrUn_DS485 525v1	0	0	0	0
chrUn_DS485 429v1	0	0	0	0
chrUn_DS485 088v1	0	0	0	0
chrUn_DS485 190v1	0	0	0	0
chrUn_DS485 565v1	0	0	0	0
chrUn_DS483 870v1	0	0	0	0
chrUn_DS484 022v1	0	0	0	0
chrUn_DS484 836v1	0	0	0	0
chrUn_DS484 105v1	0	0	0	0
chrUn_DS485 889v1	0	0	0	0
chrUn_DS484 109v1	0	0	0	0
chrUn_DS485 882v1	0	0	0	0
chrUn_DS483 824v1	0	0	0	0



chrUn_DS485 426v1	0	0	0	0
chrUn_DS485 083v1	0	0	0	0
chrUn_DS485 851v1	0	0	0	0
chrUn_DS483 945v1	0	0	0	0
chrUn_DS484 534v1	0	0	0	0
chrUn_DS484 901v1	0	0	0	0
chrUn_DS484 789v1	0	0	0	0
chrUn_DS483 904v1	0	0	0	0
chrUn_DS484 264v1	0	0	0	0
chrUn_DS484 086v1	0	0	0	0
chrUn_DS484 089v1	0	0	0	0
chrUn_DS485 792v1	0	0	0	0
chrUn_DS485 085v1	0	0	0	0
chrUn_DS483 773v1	0	0	0	0
chrUn_DS483 837v1	0	0	0	0

chrUn_DS485 648v1	0	0	0	0
chrUn_DS485 105v1	0	0	0	0
chrUn_DS485 694v1	0	0	0	0
chrUn_DS485 389v1	0	0	0	0
chrUn_DS484 343v1	0	0	0	0
chrUn_DS483 702v1	0	0	0	0
chrUn_DS485 640v1	0	0	0	0
chrUn_DS483 868v1	0	0	0	0
chrUn_DS485 806v1	0	0	0	0
chrUn_DS484 434v1	0	0	0	0
chrUn_DS484 888v1	0	0	0	0
chrUn_DS484 693v1	0	0	0	0
chrUn_DS485 627v1	0	0	0	0
chrUn_DS485 245v1	0	0	0	0
chrUn_DS485 595v1	0	0	0	0

chrUn_DS484 064v1	0	0	0	0
chrUn_DS485 176v1	0	0	0	0
chrUn_DS485 252v1	0	0	0	0
chrUn_DS485 670v1	0	0	0	0
chrUn_DS485 152v1	0	0	0	0
chrUn_DS484 078v1	0	0	0	0
chrUn_DS483 814v1	0	0	0	0
chrUn_DS484 206v1	0	0	0	0
chrUn_DS485 071v1	0	0	0	0
chrUn_DS484 070v1	0	0	0	0
chrUn_DS485 584v1	0	0	0	0
chrUn_DS483 886v1	0	0	0	0
chrUn_DS484 773v1	0	0	0	0
chrUn_DS484 004v1	0	0	0	0
chrUn_DS485 393v1	0	0	0	0

chrUn_DS484 192v1	0	0	0	0
chrUn_DS483 891v1	0	0	0	0
chrUn_DS484 217v1	0	0	0	0
chrUn_DS484 055v1	0	0	0	0
chrUn_DS484 015v1	0	0	0	0
chrUn_DS485 848v1	0	0	0	0
chrUn_DS485 221v1	0	0	0	0
chrUn_DS485 227v1	0	0	0	0
chrUn_DS485 579v1	0	0	0	0
chrUn_DS485 400v1	0	0	0	0
chrUn_DS485 154v1	0	0	0	0
chrUn_DS483 956v1	0	0	0	0
chrUn_DS483 854v1	0	0	0	0
chrUn_DS485 410v1	0	0	0	0
chrUn_DS484 718v1	0	0	0	0

chrUn_DS484 412v1	0	0	0	0
chrUn_DS484 424v1	0	0	0	0
chrUn_DS484 213v1	0	0	0	0
chrUn_DS485 157v1	0	0	0	0
chrUn_DS484 940v1	0	0	0	0
chrUn_DS484 221v1	0	0	0	0
chrUn_DS485 746v1	0	0	0	0
chrUn_DS484 466v1	0	0	0	0
chrUn_DS484 306v1	0	0	0	0
chrUn_DS485 807v1	0	0	0	0
chrUn_DS485 591v1	0	0	0	0
chrUn_DS484 486v1	0	0	0	0
chrUn_DS485 030v1	0	0	0	0
chrUn_DS484 395v1	0	0	0	0
chrUn_DS485 216v1	0	0	0	0

chrUn_DS483 964v1	0	0	0	0
chrUn_DS484 750v1	0	0	0	0
chrUn_DS484 661v1	0	0	0	0
chrUn_DS484 621v1	0	0	0	0
chrUn_DS484 927v1	0	0	0	0
chrUn_DS485 330v1	0	0	0	0
chrUn_DS485 988v1	0	0	0	0
chrUn_DS485 832v1	0	0	0	0
chrUn_DS484 159v1	0	0	0	0
chrUn_DS485 041v1	0	0	0	0
chrUn_DS484 421v1	0	0	0	0
chrUn_DS485 091v1	0	0	0	0
chrUn_DS485 878v1	0	0	0	0
chrUn_DS485 140v1	0	0	0	0
chrUn_DS485 419v1	0	0	0	0

chrUn_DS484 887v1	0	0	0	0
chrUn_DS485 301v1	0	0	0	0
chrUn_DS485 002v1	0	0	0	0
chrUn_DS484 491v1	0	0	0	0
chrUn_DS485 589v1	0	0	0	0
chrUn_DS485 284v1	0	0	0	0
chrUn_DS484 525v1	0	0	0	0
chrUn_DS484 734v1	0	0	0	0
chrUn_DS484 212v1	0	0	0	0
chrUn_DS483 866v1	0	0	0	0
chrUn_DS484 107v1	0	0	0	0
chrUn_DS484 930v1	0	0	0	0
chrUn_DS484 321v1	0	0	0	0
chrUn_DS485 134v1	0	0	0	0
chrUn_DS484 044v1	0	0	0	0

chrUn_DS484 066v1	0	0	0	0
chrUn_DS484 151v1	0	0	0	0
chrUn_DS484 242v1	0	0	0	0
chrUn_DS484 602v1	0	0	0	0
chrUn_DS484 762v1	0	0	0	0
chrUn_DS484 408v1	0	0	0	0
chrUn_DS485 067v1	0	0	0	0
chrUn_DS485 297v1	0	0	0	0
chrUn_DS484 700v1	0	0	0	0
chrUn_DS484 116v1	0	0	0	0
chrUn_DS484 335v1	0	0	0	0
chrUn_DS485 169v1	0	0	0	0
chrUn_DS485 448v1	0	0	0	0
chrUn_DS483 822v1	0	0	0	0
chrUn_DS484 792v1	0	0	0	0



chrUn_DS483 768v1	0	0	0	0
chrUn_DS483 735v1	0	0	0	0
chrUn_DS485 653v1	0	0	0	0
chrUn_DS484 662v1	0	0	0	0
chrUn_DS484 097v1	0	0	0	0
chrUn_DS484 001v1	0	0	0	0
chrUn_DS485 609v1	0	0	0	0
chrUn_DS485 323v1	0	0	0	0
chrUn_DS483 649v1	0	0	0	0
chrUn_DS484 079v1	0	0	0	0
chrUn_DS484 065v1	0	0	0	0
chrUn_DS485 035v1	0	0	0	0
chrUn_DS485 897v1	0	0	0	0
chrUn_DS485 503v1	0	0	0	0
chrUn_DS484 521v1	0	0	0	0

chrUn_DS484 104v1	0	0	0	0
chrUn_DS483 863v1	0	0	0	0
chrUn_DS484 196v1	0	0	0	0
chrUn_DS484 318v1	0	0	0	0
chrUn_DS485 955v1	0	0	0	0
chrUn_DS485 624v1	0	0	0	0
chrUn_DS484 729v1	0	0	0	0
chrUn_DS484 573v1	0	0	0	0
chrUn_DS484 464v1	0	0	0	0
chrUn_DS483 994v1	0	0	0	0
chrUn_DS484 013v1	0	0	0	0
chrUn_DS484 714v1	0	0	0	0
chrUn_DS484 649v1	0	0	0	0
chrUn_DS484 543v1	0	0	0	0
chrUn_DS484 308v1	0	0	0	0

chrUn_DS485 155v1	0	0	0	0
chrUn_DS485 107v1	0	0	0	0
chrUn_DS483 899v1	0	0	0	0
chrUn_DS485 162v1	0	0	0	0
chrUn_DS484 108v1	0	0	0	0
chrUn_DS485 536v1	0	0	0	0
chrUn_DS485 198v1	0	0	0	0
chrUn_DS484 699v1	0	0	0	0
chrUn_DS484 091v1	0	0	0	0
chrUn_DS485 144v1	0	0	0	0
chrUn_DS485 256v1	0	0	0	0
chrUn_DS484 616v1	0	0	0	0
chrUn_DS484 862v1	0	0	0	0
chrUn_DS484 754v1	0	0	0	0
chrUn_DS484 617v1	0	0	0	0

chrUn_DS484 917v1	0	0	0	0
chrUn_DS483 646v1	2142	0	0	0
chrUn_DS485 559v1	0	0	0	0
chrUn_DS484 120v1	0	0	0	0
chrUn_DS483 983v1	0	0	0	0
chrUn_DS484 853v1	0	0	0	0
chrUn_DS484 780v1	0	0	0	0
chrUn_DS484 145v1	0	0	0	0
chrUn_DS484 898v1	0	0	0	0
chrUn_DS484 926v1	0	0	0	0
chrUn_DS484 592v1	0	0	0	0
chrUn_DS485 230v1	0	0	0	0
chrUn_DS484 870v1	0	0	0	0
chrUn_DS484 581v1	348	0	0	0
chrUn_DS485 724v1	0	0	0	0

chrUn_DS485 695v2	0	0	0	0
chrUn_DS484 123v1	0	0	0	0
chrUn_DS483 780v1	0	0	0	0
chrUn_DS484 007v1	0	0	0	0
chrUn_DS484 230v1	0	0	0	0
chrUn_DS483 819v1	0	0	0	0
chrUn_DS483 898v1	0	0	0	0
chrUn_DS483 762v1	0	0	0	0
chrUn_DS483 895v1	0	0	0	0
chrUn_DS483 929v1	0	0	0	0
chrUn_DS484 038v1	0	0	0	0
chrUn_DS483 844v1	0	0	0	0
chrUn_DS483 806v1	0	0	0	0
chrUn_DS483 812v1	0	0	0	0
chrUn_DS483 785v1	0	0	0	0

chrUn_DS483 943v1	0	0	0	0
chrUn_DS483 753v1	0	0	0	0
chrUn_DS484 045v1	0	0	0	0
chrUn_DS484 144v1	0	0	0	0
chrUn_DS483 925v1	0	0	0	0
chrUn_DS483 787v1	0	0	0	0
chrUn_DS483 865v1	0	0	0	0
chrUn_DS484 090v1	0	0	0	0
chrUn_DS483 757v1	0	0	0	0
chrUn_DS484 010v1	0	0	0	0
chrUn_DS484 247v1	0	0	0	0
chrUn_DS483 751v1	0	0	0	0
chrUn_DS484 280v1	0	0	0	0
chrUn_DS484 167v1	0	0	0	0
chrUn_DS483 918v1	0	0	0	0

chrUn_DS484 414v1	0	0	0	0
chrUn_DS484 134v1	0	0	0	0
chrUn_DS483 833v1	0	0	0	0
chrUn_DS483 878v1	0	0	0	0
chrUn_DS484 053v1	0	0	0	0
chrUn_DS483 859v1	0	0	0	0
chrUn_DS483 793v1	0	0	0	0
chrUn_DS483 774v1	0	0	0	0
chrUn_DS483 770v1	0	0	0	0
chrUn_DS484 225v1	0	0	0	0
chrUn_DS483 947v1	0	0	0	0
chrUn_DS484 006v1	0	0	0	0
chrUn_DS483 954v1	0	0	0	0
chrUn_DS483 982v1	0	0	0	0
chrUn_DS484 222v1	0	0	0	0

chrUn_DS484 092v1	0	0	0	0
chrUn_DS483 647v1	0	0	0	0
chrUn_DS484 095v1	0	0	0	0
chrUn_DS483 776v1	0	0	0	0
chrUn_DS484 209v1	0	0	0	0
chrUn_DS483 927v1	0	0	0	0
chrUn_DS484 234v1	0	0	0	0
chrUn_DS483 992v1	0	0	0	0
chrUn_DS484 036v1	0	0	0	0
chrUn_DS483 986v1	0	0	0	0
chrUn_DS484 031v1	0	0	0	0
chrUn_DS483 813v1	0	0	0	0
chrUn_DS483 881v1	0	0	0	0
chrUn_DS484 296v1	0	0	0	0
chrUn_DS483 949v1	0	0	0	0



chrUn_DS484 000v1	0	0	0	0
chrUn_DS483 941v1	0	0	0	0
chrUn_DS483 985v1	0	0	0	0
chrUn_DS484 375v1	0	0	0	0
chrUn_DS483 998v1	0	0	0	0
chrUn_DS484 068v1	0	0	0	0
chrUn_DS484 353v1	0	0	0	0
chrUn_DS483 810v1	0	0	0	0
chrUn_DS484 018v1	0	0	0	0
chrUn_DS483 817v1	0	0	0	0
chrUn_DS483 999v1	0	0	0	0
chrUn_DS483 724v1	0	0	0	0
chrUn_DS484 256v1	0	0	0	0
chrUn_DS484 391v1	0	0	0	0
chrUn_DS484 539v1	0	0	0	0

chrUn_DS483 937v1	0	0	0	0
chrUn_DS483 828v1	0	0	0	0
chrUn_DS484 113v1	0	0	0	0
chrUn_DS483 811v1	0	0	0	0
chrUn_DS484 432v1	0	0	0	0
chrUn_DS483 832v1	0	0	0	0
chrUn_DS484 386v1	0	0	0	0
chrUn_DS483 896v1	0	0	0	0
chrUn_DS484 294v1	0	0	0	0
chrUn_DS484 426v1	0	0	0	0
chrUn_DS483 800v1	0	0	0	0
chrUn_DS483 763v1	0	0	0	0
chrUn_DS484 289v1	0	0	0	0
chrUn_DS484 865v1	0	0	0	0
chrUn_DS483 839v1	0	0	0	0

chrUn_DS483 880v1	0	0	0	0
chrUn_DS483 951v1	0	0	0	0
chrUn_DS483 781v1	0	0	0	0
chrUn_DS483 798v1	0	0	0	0
chrUn_DS483 641v1	0	0	0	0
chrUn_DS483 861v1	0	0	0	0
chrUn_DS484 872v1	0	0	0	0
chrUn_DS485 098v1	0	0	0	0
chrUn_DS484 292v1	0	0	0	0
chrUn_DS485 935v1	0	0	0	0
chrUn_DS483 900v1	0	0	0	0
chrUn_DS485 601v1	0	0	0	0
chrUn_DS484 009v1	0	0	0	0
chrUn_DS485 385v1	0	0	0	0
chrUn_DS485 259v1	0	0	0	0

chrUn_DS485 182v1	0	0	0	0
chrUn_DS483 960v1	0	0	0	0
chrUn_DS484 735v1	0	0	0	0
chrUn_DS484 224v1	0	0	0	0
chrUn_DS484 363v1	0	0	0	0
chrUn_DS483 760v1	0	0	0	0
chrUn_DS484 652v1	0	0	0	0
chrUn_DS485 548v1	0	0	0	0
chrUn_DS483 910v1	0	0	0	0
chrUn_DS485 424v1	0	0	0	0
chrUn_DS484 848v1	0	0	0	0
chrUn_DS484 176v1	0	0	0	0
chrUn_DS483 807v1	0	0	0	0
chrUn_DS483 796v1	0	0	0	0
chrUn_DS483 754v1	0	0	0	0

chrUn_DS483 758v1	0	0	0	0
chrUn_DS483 846v1	0	0	0	0
chrUn_DS484 317v1	0	0	0	0
chrUn_DS483 744v1	0	0	0	0
chrUn_DS483 709v1	0	0	0	0
chrUn_DS483 874v1	0	0	0	0
chrUn_DS483 629v1	0	0	0	0
chrUn_CP007 071v1	0	0	0	0
chrUn_CP007 072v1	0	0	0	0
chrUn_CP007 073v1	0	0	0	0
chrUn_CP007 074v1	0	0	0	0
chrUn_CP007 075v1	0	0	0	0
chrUn_CP007 076v1	0	0	0	0
chrUn_CP007 077v1	0	0	0	0
chrUn_CP007 078v1	0	0	0	0

chrUn_CP007 079v1	0	0	0	0
chrUn_CP007 082v1	0	0	0	0
chrUn_CP007 083v1	0	0	0	0
chrUn_CP007 084v1	0	0	0	0
chrUn_CP007 085v1	0	0	0	0
chrUn_CP007 086v1	0	0	0	0
chrUn_CP007 087v1	0	0	0	0
chrUn_CP007 088v1	0	0	0	0
chrUn_CP007 089v1	0	0	0	0
chrUn_CP007 090v1	0	0	0	0
chrUn_CP007 091v1	0	0	0	0
chrUn_CP007 092v1	0	0	0	0
chrUn_CP007 093v1	0	0	0	0
chrUn_CP007 094v1	0	0	0	0
chrUn_CP007 095v1	0	0	0	0

chrUn_CP007 096v1	0	0	0	0
chrUn_CP007 080v1	0	0	0	0
chrUn_CP007 097v1	0	0	0	0
chrUn_CP007 098v1	0	0	0	0
chrUn_CP007 099v1	0	0	0	0
chrUn_CP007 100v1	0	0	0	0
chrUn_CP007 101v1	0	0	0	0
chrUn_CP007 081v1	32572	18120	0.5563	2.2594
chrUn_CP007 105v1	0	0	0	0
chrUn_DS483 562v1	0	0	0	0
chrUn_CP007 120v1	0	0	0	0
chrX	17460288	914213563	52.3596	395.2707
chrX_DS4847 01v1_random	0	0	0	0
chrX_DS4849 68v1_random	0	0	0	0
chrX_DS4846 68v1_random	0	0	0	0

chrX_DS4846 64v1_random	0	0	0	0
chrX_DS4842 72v1_random	0	0	0	0
chrX_DS4850 77v1_random	0	0	0	0
chrX_DS4840 84v1_random	0	0	0	0
chrX_DS4841 61v1_random	0	0	0	0
chrX_DS4842 84v1_random	0	0	0	0
chrX_DS4844 59v1_random	0	0	0	0
chrX_DS4847 65v1_random	0	0	0	0
chrX_DS4846 22v1_random	0	0	0	0
chrX_DS4845 26v1_random	0	0	0	0
chrX_DS4859 94v1_random	0	0	0	0
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



chrX_DS4856 18v1_random	0	0	0	0
chrX_DS4857 97v1_random	0	0	0	0
chrX_DS4843 67v1_random	0	0	0	0
chrX_DS4848 09v1_random	0	0	0	0
chrX_DS4849 65v1_random	0	0	0	0
chrX_DS4845 85v1_random	0	0	0	0
chrX_DS4851 72v1_random	0	0	0	0
chrX_DS4842 19v1_random	0	0	0	0
chrX_DS4846 50v1_random	0	0	0	0
chrX_DS4847 30v1_random	0	0	0	0
chrX_DS4842 00v1_random	0	0	0	0
chrX_DS4845 12v1_random	0	0	0	0
chrX_DS4845 82v1_random	0	0	0	0
chrX_DS4845 29v1_random	0	0	0	0
chrX_DS4844 29v1_random	0	0	0	0

chrX_DS4845 18v1_random	0	0	0	0
chrX_DS4848 33v1_random	0	0	0	0
chrX_DS4847 24v1_random	0	0	0	0
chrX_DS4850 15v1_random	0	0	0	0
chrX_DS4845 94v1_random	0	0	0	0
chrX_DS4856 06v1_random	0	0	0	0
chrX_DS4848 19v1_random	0	0	0	0
chrX_DS4843 58v1_random	0	0	0	0
chrX_DS4848 45v1_random	0	0	0	0
chrX_DS4844 30v1_random	0	0	0	0
chrX_DS4845 68v1_random	0	0	0	0
chrX_DS4859 42v1_random	0	0	0	0
chrX_DS4845 83v1_random	0	0	0	0
chrX_DS4844 28v1_random	0	0	0	0
chrX_DS4852 66v1_random	0	0	0	0

chrX_DS4843 99v1_random	0	0	0	0
chrX_DS4855 14v1_random	0	0	0	0
chrX_DS4840 12v1_random	0	0	0	0
chrX_DS4845 52v1_random	0	0	0	0
chrX_DS4850 74v1_random	0	0	0	0
chrX_DS4845 76v1_random	0	0	0	0
chrX_DS4848 03v1_random	0	0	0	0
chrX_DS4857 65v1_random	0	0	0	0
chrX_DS4844 47v1_random	0	0	0	0
chrX_DS4859 62v1_random	0	0	0	0
chrX_DS4857 69v1_random	0	0	0	0
chrX_DS4845 33v1_random	0	0	0	0
chrX_DS4843 88v1_random	0	0	0	0
chrX_DS4845 64v1_random	0	0	0	0
chrX_DS4841 26v1_random	0	0	0	0

chrX_DS4844 50v1_random	0	0	0	0
chrX_DS4846 10v1_random	0	0	0	0
chrX_DS4852 38v1_random	0	0	0	0
chrX_DS4844 02v1_random	0	0	0	0
chrX_DS4845 58v1_random	0	0	0	0
chrX_DS4846 84v1_random	0	0	0	0
chrX_DS4849 51v1_random	0	0	0	0
chrX_DS4846 79v1_random	0	0	0	0
chrX_DS4846 91v1_random	0	0	0	0
chrX_DS4846 47v1_random	0	0	0	0
chrX_DS4859 13v1_random	0	0	0	0
chrX_DS4846 08v1_random	0	0	0	0
chrX_DS4849 13v1_random	0	0	0	0
chrX_DS4853 58v1_random	0	0	0	0
chrX_DS4850 96v1_random	0	0	0	0

chrX_DS4852 57v1_random	0	0	0	0
chrX_DS4845 47v1_random	0	0	0	0
chrX_DS4845 96v1_random	0	0	0	0
chrX_DS4844 97v1_random	0	0	0	0
chrX_DS4859 67v1_random	0	0	0	0
chrX_DS4846 88v1_random	0	0	0	0
chrX_DS4854 76v1_random	0	0	0	0
chrX_DS4856 49v1_random	0	0	0	0
chrX_DS4849 96v1_random	0	0	0	0
chrX_DS4859 81v1_random	0	0	0	0
chrX_DS4842 35v1_random	0	0	0	0
chrX_DS4844 31v1_random	0	0	0	0
chrX_DS4846 72v1_random	0	0	0	0
chrX_DS4849 61v1_random	0	0	0	0
chrX_DS4836 48v1_random	0	0	0	0

chrX_DS4846 00v1_random	0	0	0	0
chrX_DS4858 13v1_random	0	0	0	0
chrX_DS4851 04v1_random	0	0	0	0
chrX_DS4847 85v1_random	0	0	0	0
chrX_DS4843 79v1_random	0	0	0	0
chrX_DS4854 65v1_random	0	0	0	0
chrX_DS4856 76v1_random	0	0	0	0
chrX_DS4857 35v1_random	0	0	0	0
chrX_DS4840 23v1_random	0	0	0	0
chrX_DS4844 01v1_random	0	0	0	0
chrX_DS4843 54v1_random	0	0	0	0
chrX_DS4842 98v1_random	0	0	0	0
chrX_DS4847 23v1_random	0	0	0	0
chrX_DS4858 60v1_random	0	0	0	0
chrX_DS4849 95v1_random	0	0	0	0

chrX_DS4843 93v1_random	0	0	0	0
chrX_DS4849 11v1_random	0	0	0	0
chrX_DS4853 05v1_random	0	0	0	0
chrX_DS4843 62v1_random	0	0	0	0
chrX_DS4846 28v1_random	0	0	0	0
chrX_DS4846 04v1_random	0	0	0	0
chrX_DS4842 01v1_random	0	0	0	0
chrX_DS4844 11v1_random	0	0	0	0
chrX_DS4858 55v1_random	0	0	0	0
chrX_DS4848 11v1_random	0	0	0	0
chrX_DS4845 04v1_random	0	0	0	0
chrX_DS4846 95v1_random	0	0	0	0
chrX_DS4846 70v1_random	0	0	0	0
chrX_DS4842 61v1_random	0	0	0	0
chrX_DS4856 60v1_random	0	0	0	0

chrX_DS4851 64v1_random	0	0	0	0
chrX_DS4846 09v1_random	0	0	0	0
chrX_DS4859 41v1_random	0	0	0	0
chrX_DS4845 45v1_random	0	0	0	0
chrX_DS4843 97v1_random	0	0	0	0
chrX_DS4843 68v1_random	0	0	0	0
chrX_DS4841 98v1_random	0	0	0	0
chrX_DS4851 01v1_random	0	0	0	0
chrX_DS4851 41v1_random	0	0	0	0
chrX_DS4846 25v1_random	0	0	0	0
chrX_DS4846 26v1_random	0	0	0	0
chrX_DS4857 23v1_random	0	0	0	0
chrX_DS4845 87v1_random	0	0	0	0
chrX_DS4851 67v1_random	0	0	0	0
chrX_DS4859 34v1_random	0	0	0	0



chrX_DS4843 64v1_random	0	0	0	0
chrX_DS4851 10v1_random	0	0	0	0
chrX_DS4845 40v1_random	0	0	0	0
chrX_DS4848 79v1_random	0	0	0	0
chrX_DS4841 82v1_random	0	0	0	0
chrX_DS4848 50v1_random	0	0	0	0
chrX_DS4857 85v1_random	0	0	0	0
chrX_DS4842 15v1_random	0	0	0	0
chrX_DS4843 37v1_random	0	0	0	0
chrX_DS4851 26v1_random	0	0	0	0
chrX_DS4847 37v1_random	0	0	0	0
chrX_DS4859 09v1_random	0	0	0	0
chrX_DS4847 03v1_random	0	0	0	0
chrX_DS4847 40v1_random	0	0	0	0
chrX_DS4846 60v1_random	0	0	0	0

chrX_DS4848 10v1_random	0	0	0	0
chrX_DS4850 81v1_random	0	0	0	0
chrX_DS4847 58v1_random	0	0	0	0
chrX_DS4847 63v1_random	0	0	0	0
chrX_DS4845 72v1_random	0	0	0	0
chrX_DS4844 77v1_random	0	0	0	0
chrX_DS4856 91v1_random	0	0	0	0
chrX_DS4858 01v1_random	0	0	0	0
chrX_DS4858 45v1_random	0	0	0	0
chrX_DS4841 01v1_random	0	0	0	0
chrX_DS4855 73v1_random	0	0	0	0
chrX_DS4846 90v1_random	0	0	0	0
chrX_DS4845 98v1_random	0	0	0	0
chrX_DS4844 06v1_random	0	0	0	0
chrX_DS4843 49v1_random	0	0	0	0

chrX_DS4859 87v1_random	0	0	0	0
chrX_DS4845 55v1_random	0	0	0	0
chrX_DS4856 87v1_random	0	0	0	0
chrX_DS4851 09v1_random	0	0	0	0
chrX_DS4845 69v1_random	0	0	0	0
chrX_DS4846 48v1_random	0	0	0	0
chrX_DS4844 83v1_random	0	0	0	0
chrX_DS4858 56v1_random	0	0	0	0
chrX_DS4846 33v1_random	0	0	0	0
chrX_DS4845 00v1_random	0	0	0	0
chrX_DS4841 36v1_random	0	0	0	0
chrX_DS4848 71v1_random	0	0	0	0
chrX_DS4843 60v1_random	0	0	0	0
chrX_DS4858 52v1_random	0	0	0	0
chrX_DS4844 15v1_random	0	0	0	0

chrX_DS4845 70v1_random	0	0	0	0
chrX_DS4847 83v1_random	0	0	0	0
chrX_DS4842 88v1_random	0	0	0	0
chrX_DS4847 78v1_random	0	0	0	0
chrX_DS4849 55v1_random	0	0	0	0
chrX_DS4842 52v1_random	0	0	0	0
chrX_DS4849 35v1_random	0	0	0	0
chrX_DS4856 20v1_random	0	0	0	0
chrX_DS4858 98v1_random	0	0	0	0
chrX_DS4857 82v1_random	0	0	0	0
chrX_DS4848 80v1_random	0	0	0	0
chrX_DS4848 40v1_random	0	0	0	0
chrX_DS4848 37v1_random	0	0	0	0
chrX_DS4846 98v1_random	0	0	0	0
chrX_DS4844 42v1_random	0	0	0	0

chrX_DS4857 71v1_random	0	0	0	0
chrX_DS4846 44v1_random	0	0	0	0
chrX_DS4850 84v1_random	0	0	0	0
chrX_DS4843 23v1_random	0	0	0	0
chrX_DS4844 57v1_random	0	0	0	0
chrX_DS4841 12v1_random	0	0	0	0
chrX_DS4847 41v1_random	0	0	0	0
chrX_DS4847 86v1_random	0	0	0	0
chrX_DS4857 45v1_random	0	0	0	0
chrX_DS4844 09v1_random	0	0	0	0
chrX_DS4845 90v1_random	0	0	0	0
chrX_DS4848 90v1_random	0	0	0	0
chrX_DS4850 43v1_random	0	0	0	0
chrX_DS4847 31v1_random	0	0	0	0
chrX_DS4847 68v1_random	0	0	0	0

chrX_DS4841 14v1_random	0	0	0	0
chrX_DS4846 11v1_random	0	0	0	0
chrX_DS4845 19v1_random	0	0	0	0
chrX_DS4855 99v1_random	0	0	0	0
chrX_DS4851 11v1_random	0	0	0	0
chrX_DS4853 78v1_random	0	0	0	0
chrX_DS4839 63v1_random	0	0	0	0
chrX_DS4846 05v1_random	0	0	0	0
chrX_DS4854 71v1_random	0	0	0	0
chrX_DS4846 57v1_random	0	0	0	0
chrX_DS4843 05v1_random	0	0	0	0
chrX_DS4856 35v1_random	0	0	0	0
chrX_DS4852 77v1_random	0	0	0	0
chrX_DS4845 97v1_random	0	0	0	0
chrX_DS4841 78v1_random	0	0	0	0

chrX_DS4852 62v1_random	0	0	0	0
chrX_DS4854 78v1_random	0	0	0	0
chrX_DS4846 83v1_random	0	0	0	0
chrX_DS4853 34v1_random	0	0	0	0
chrX_DS4851 12v1_random	0	0	0	0
chrX_DS4845 06v1_random	0	0	0	0
chrX_DS4853 36v1_random	0	0	0	0
chrX_DS4836 69v1_random	0	0	0	0
chrX_DS4836 55v1_random	0	0	0	0
chrX_DS4859 59v1_random	0	0	0	0
chrX_DS4853 00v1_random	0	0	0	0
chrX_DS4850 50v1_random	0	0	0	0
chrX_DS4842 60v1_random	0	0	0	0
chrX_DS4844 44v1_random	0	0	0	0
chrX_DS4846 94v1_random	0	0	0	0

chrX_DS4846 77v1_random	0	0	0	0
chrX_DS4847 77v1_random	0	0	0	0
chrX_DS4856 17v1_random	0	0	0	0
chrX_DS4848 39v1_random	0	0	0	0
chrX_DS4850 80v1_random	0	0	0	0
chrX_DS4845 60v1_random	0	0	0	0
chrX_DS4849 28v1_random	0	0	0	0
chrX_DS4847 75v1_random	0	0	0	0
chrX_DS4845 35v1_random	0	0	0	0
chrX_DS4847 25v1_random	0	0	0	0
chrX_DS4846 82v1_random	0	0	0	0
chrX_DS4846 18v1_random	0	0	0	0
chrX_DS4849 52v1_random	0	0	0	0
chrX_DS4845 99v1_random	0	0	0	0
chrX_DS4840 72v1_random	0	0	0	0



chrX_DS4841 37v1_random	0	0	0	0
chrX_DS4858 36v1_random	0	0	0	0
chrX_DS4844 19v1_random	0	0	0	0
chrX_DS4843 57v1_random	0	0	0	0
chrX_DS4857 98v1_random	0	0	0	0
chrX_DS4843 44v1_random	0	0	0	0
chrX_DS4846 23v1_random	0	0	0	0
chrX_DS4855 37v1_random	0	0	0	0
chrX_DS4840 57v1_random	0	0	0	0
chrX_DS4858 99v1_random	0	0	0	0
chrX_DS4848 32v1_random	0	0	0	0
chrX_DS4859 50v1_random	0	0	0	0
chrX_DS4839 95v1_random	732	211	0.2883	0.4969
chrX_DS4856 03v1_random	0	0	0	0
chrX_DS4847 33v1_random	0	0	0	0

chrX_DS4845 41v1_random	0	0	0	0
chrX_DS4840 85v1_random	0	0	0	0
chrX_DS4841 65v1_random	0	0	0	0
chrX_DS4852 71v1_random	0	0	0	0
chrX_DS4857 90v1_random	0	0	0	0
chrX_DS4847 53v1_random	0	0	0	0
chrX_DS4846 45v1_random	0	0	0	0
chrX_DS4846 69v1_random	0	0	0	0
chrX_DS4841 62v1_random	0	0	0	0
chrX_DS4843 74v1_random	0	0	0	0
chrX_DS4851 89v1_random	0	0	0	0
chrX_DS4846 03v1_random	0	0	0	0
chrX_DS4851 95v1_random	0	0	0	0
chrX_DS4845 80v1_random	0	0	0	0
chrX_DS4853 51v1_random	0	0	0	0

chrX_DS4844 33v1_random	0	0	0	0
chrX_DS4857 38v1_random	0	0	0	0
chrX_DS4844 23v1_random	0	0	0	0
chrX_DS4858 79v1_random	0	0	0	0
chrX_DS4847 02v1_random	0	0	0	0
chrX_DS4846 36v1_random	0	0	0	0
chrX_DS4857 62v1_random	0	0	0	0
chrX_DS4850 12v1_random	0	0	0	0
chrX_DS4844 74v1_random	0	0	0	0
chrX_DS4852 78v1_random	0	0	0	0
chrX_DS4843 22v1_random	0	0	0	0
chrX_DS4849 74v1_random	0	0	0	0
chrX_DS4841 35v1_random	0	0	0	0
chrX_DS4848 26v1_random	0	0	0	0
chrX_DS4858 16v1_random	0	0	0	0

chrX_DS4836 65v1_random	0	0	0	0
chrX_DS4840 67v1_random	0	0	0	0
chrX_DS4856 72v1_random	0	0	0	0
chrX_DS4840 05v1_random	0	0	0	0
chrX_DS4839 71v1_random	0	0	0	0
chrX_DS4853 03v1_random	0	0	0	0
chrX_DS4841 43v1_random	0	0	0	0
chrX_DS4843 46v1_random	0	0	0	0
chrX_DS4852 99v1_random	0	0	0	0
chrX_DS4843 84v1_random	0	0	0	0
chrX_DS4847 67v1_random	0	0	0	0
chrX_DS4858 57v1_random	0	0	0	0
chrX_DS4850 72v1_random	0	0	0	0
chrX_DS4843 19v1_random	0	0	0	0
chrX_DS4852 25v1_random	0	0	0	0

chrX_DS4852 68v1_random	0	0	0	0
chrX_DS4842 93v1_random	0	0	0	0
chrX_DS4847 15v1_random	0	0	0	0
chrX_DS4854 54v1_random	0	0	0	0
chrX_DS4841 30v1_random	0	0	0	0
chrX_DS4843 59v1_random	0	0	0	0
chrX_DS4837 84v1_random	0	0	0	0
chrX_DS4851 19v1_random	0	0	0	0
chrX_DS4844 62v1_random	0	0	0	0
chrX_DS4855 92v1_random	0	0	0	0
chrX_DS4856 47v1_random	0	0	0	0
chrX_DS4840 88v1_random	0	0	0	0
chrX_DS4850 78v1_random	0	0	0	0
chrX_DS4839 05v1_random	0	0	0	0
chrX_DS4849 63v1_random	0	0	0	0

chrX_DS4836 85v1_random	0	0	0	0
chrX_DS4847 49v1_random	0	0	0	0
chrX_DS4843 56v1_random	0	0	0	0
chrX_DS4854 18v1_random	0	0	0	0
chrX_DS4841 25v1_random	0	0	0	0
chrX_DS4841 31v1_random	0	0	0	0
chrX_DS4843 28v1_random	0	0	0	0
chrX_DS4838 43v1_random	0	0	0	0
chrX_DS4844 68v1_random	0	0	0	0
chrX_DS4859 78v1_random	0	0	0	0
chrX_DS4850 54v1_random	0	0	0	0
chrX_DS4839 55v1_random	0	0	0	0
chrX_DS4838 97v1_random	0	0	0	0
chrX_DS4843 61v1_random	0	0	0	0
chrX_DS4850 49v1_random	0	0	0	0

chrX_DS4849 78v1_random	0	0	0	0
chrX_DS4840 02v1_random	0	0	0	0
chrX_DS4853 64v1_random	0	0	0	0
chrX_DS4843 45v1_random	0	0	0	0
chrX_DS4853 10v1_random	0	0	0	0
chrX_DS4852 81v1_random	0	0	0	0
chrX_DS4855 97v1_random	0	0	0	0
chrX_DS4853 45v1_random	0	0	0	0
chrX_DS4844 17v1_random	0	0	0	0
chrX_DS4836 98v1_random	0	0	0	0
chrX_DS4846 20v1_random	0	0	0	0
chrX_DS4853 60v1_random	0	0	0	0
chrX_DS4855 62v1_random	0	0	0	0
chrX_DS4851 86v1_random	0	0	0	0
chrX_DS4857 78v1_random	0	0	0	0

chrX_DS4852 01v1_random	0	0	0	0
chrX_DS4853 84v1_random	0	0	0	0
chrX_DS4857 07v1_random	0	0	0	0
chrX_DS4838 09v1_random	0	0	0	0
chrX_DS4848 57v1_random	0	0	0	0
chrX_DS4842 68v1_random	0	0	0	0
chrX_DS4842 03v1_random	0	0	0	0
chrX_DS4849 70v1_random	0	0	0	0
chrX_DS4837 89v1_random	0	0	0	0
chrX_DS4847 19v1_random	0	0	0	0
chrX_DS4842 97v1_random	0	0	0	0
chrX_DS4841 24v1_random	0	0	0	0
chrX_DS4850 44v1_random	0	0	0	0
chrX_DS4849 90v1_random	0	0	0	0
chrX_DS4842 73v1_random	0	0	0	0



chrX_DS4850 17v1_random	0	0	0	0
chrX_DS4849 97v1_random	0	0	0	0
chrX_DS4838 88v1_random	0	0	0	0
chrX_DS4854 59v1_random	0	0	0	0
chrX_DS4856 51v1_random	0	0	0	0
chrX_DS4849 07v1_random	0	0	0	0
chrX_DS4855 49v1_random	0	0	0	0
chrX_DS4847 32v1_random	0	0	0	0
chrX_DS4849 53v1_random	0	0	0	0
chrX_DS4836 60v1_random	0	0	0	0
chrX_DS4846 15v1_random	0	0	0	0
chrX_DS4846 97v1_random	0	0	0	0
chrX_DS4842 16v1_random	0	0	0	0
chrX_DS4852 87v1_random	0	0	0	0
chrX_DS4843 82v1_random	0	0	0	0

chrX_DS4841 87v1_random	0	0	0	0
chrX_DS4857 56v1_random	0	0	0	0
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	4107872	3.8639	8.6833
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
chrY_DS4850 16v1_random	0	0	0	0
chrY_DS4841 42v1_random	1265	0	0	0
chrY_DS4845 30v1_random	0	0	0	0
chrY_DS4854 60v1_random	0	0	0	0
chrY_DS4860 03v1_random	0	0	0	0
chrY_DS4853 75v1_random	0	0	0	0
chrY_DS4842 33v1_random	0	0	0	0
chrY_DS4842 70v1_random	0	0	0	0
chrY_DS4858 65v1_random	0	0	0	0
chrY_DS4846 43v1_random	0	0	0	0
chrY_DS4843 51v1_random	0	0	0	0
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
chrY_DS4855 34v1_random	0	0	0	0
chrY_DS4842 50v1_random	0	0	0	0
chrY_DS4850 70v1_random	0	0	0	0
chrY_DS4854 23v1_random	318	0	0	0
chrY_DS4858 73v1_random	0	0	0	0
chrY_DS4857 36v1_random	0	0	0	0
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
chrY_DS4846 31v1_random	0	0	0	0
chrY_DS4858 40v1_random	0	0	0	0
chrY_DS4854 92v1_random	0	0	0	0
chrY_DS4858 75v1_random	0	0	0	0
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
chrY_DS4846 75v1_random	0	0	0	0
chrY_DS4846 65v1_random	0	0	0	0
chrY_DS4839 66v1_random	0	0	0	0
chrY_DS4857 49v1_random	0	0	0	0
chrY_DS4857 52v1_random	0	0	0	0
chrY_DS4841 97v1_random	0	0	0	0
chrY_DS4851 58v1_random	0	0	0	0
chrY_DS4847 06v1_random	0	0	0	0
chrY_DS4845 74v1_random	0	0	0	0
chrY_DS4846 37v1_random	0	0	0	0

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
chrY_DS4852 36v1_random	0	0	0	0
chrY_DS4853 99v1_random	0	0	0	0
chrY_DS4840 49v1_random	0	0	0	0
chrY_DS4857 67v1_random	0	0	0	0
chrY_DS4840 37v1_random	0	0	0	0
chrY_DS4859 75v1_random	0	0	0	0
chrY_DS4855 60v1_random	0	0	0	0
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
chrY_DS4853 43v1_random	0	0	0	0
chrY_DS4857 72v1_random	0	0	0	0
chrY_DS4849 94v1_random	0	0	0	0
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
chrY_DS4856 85v1_random	0	0	0	0
chrY_DS4839 67v1_random	0	0	0	0
chrY_DS4849 08v1_random	0	0	0	0
chrY_DS4849 45v1_random	0	0	0	0
chrY_DS4857 18v1_random	0	0	0	0
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
chrY_DS4856 04v1_random	0	0	0	0
chrY_DS4859 60v1_random	0	0	0	0
chrY_DS4859 74v1_random	0	0	0	0
chrY_DS4840 63v1_random	0	0	0	0
chrY_DS4859 72v1_random	0	0	0	0
chrY_DS4840 43v1_random	0	0	0	0
chrY_DS4856 25v1_random	0	0	0	0
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
chrY_DS4837 90v1_random	0	0	0	0
chrY_DS4841 71v1_random	0	0	0	0
chrY_DS4850 97v1_random	0	0	0	0
chrY_DS4841 81v1_random	0	0	0	0
chrY_CP0071 19v1_random	0	0	0	0
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

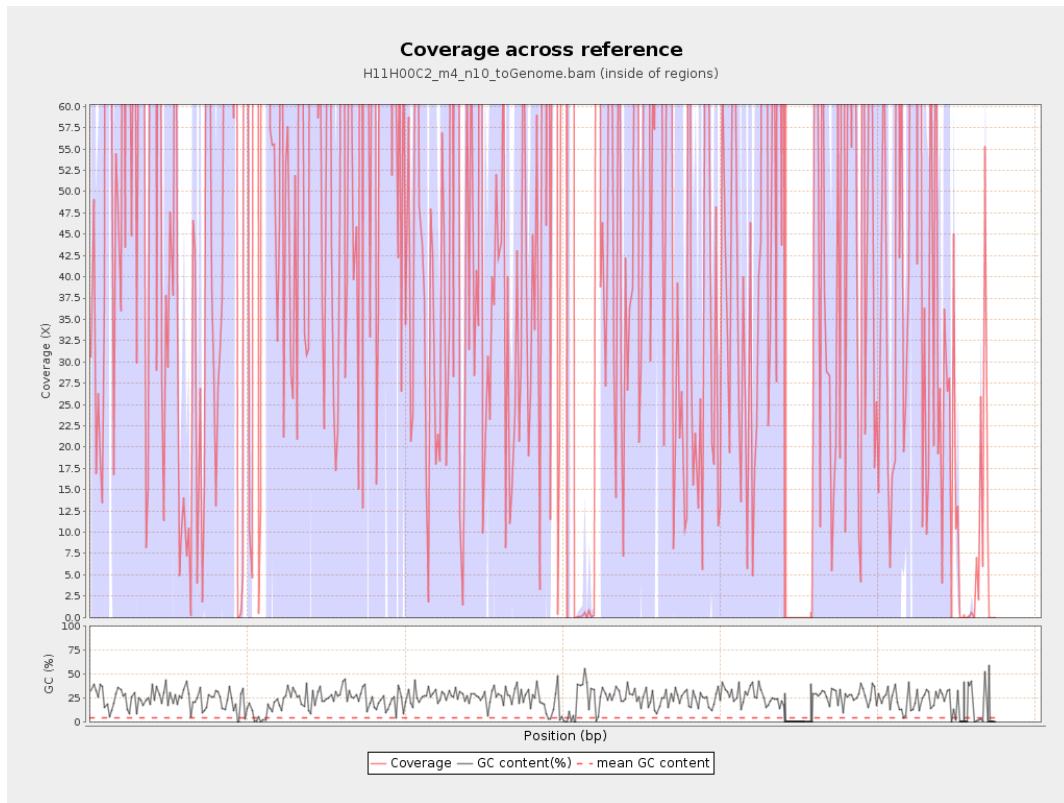
chrY_DS4854 36v1_random	0	0	0	0
chrY_DS4854 50v1_random	0	0	0	0
chrY_DS4848 30v1_random	0	0	0	0
chrY_DS4839 88v1_random	0	0	0	0
chrY_DS4848 07v1_random	0	0	0	0
chrY_DS4859 56v1_random	0	0	0	0
chrY_DS4852 83v1_random	0	0	0	0
chrY_DS4853 35v1_random	0	0	0	0
chrY_DS4856 98v1_random	0	0	0	0
chrY_DS4846 41v1_random	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



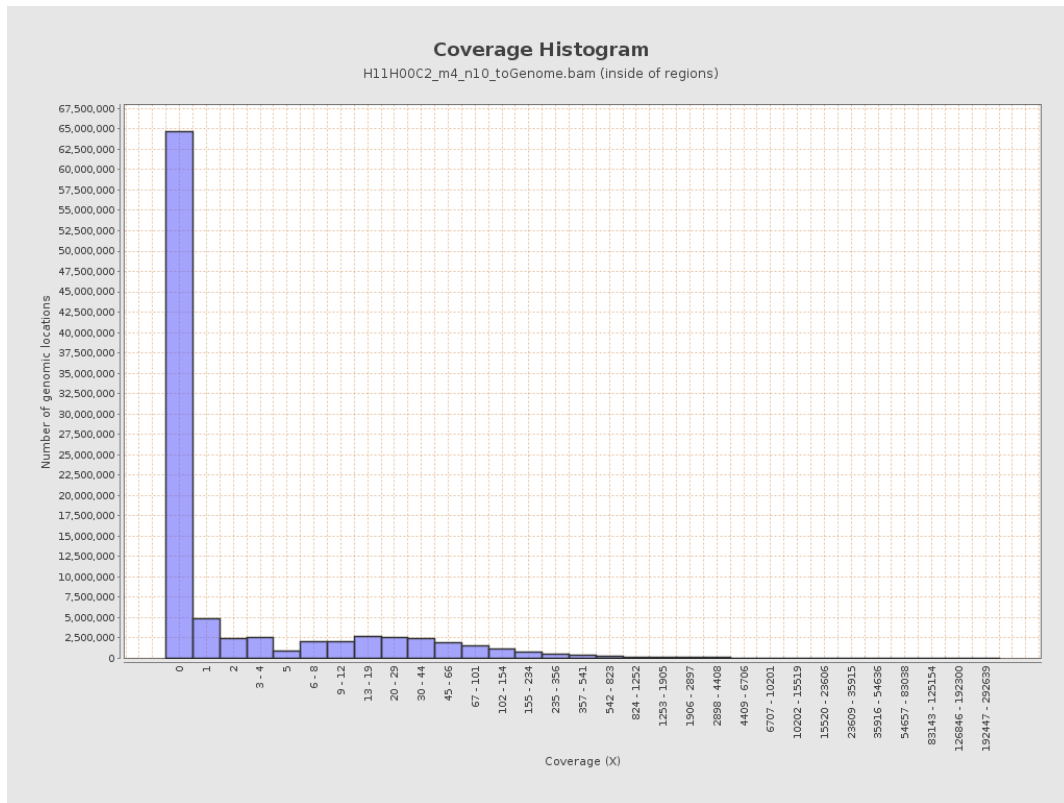
chrY_DS4858 85v1_random	0	0	0	0
chrY_DS4858 49v1_random	0	0	0	0
chrY_DS4852 19v1_random	0	0	0	0
chrY_DS4848 75v1_random	0	0	0	0
chrY_DS4841 75v1_random	0	0	0	0
chrY_DS4850 28v1_random	0	0	0	0
chrY_DS4837 25v1_random	0	0	0	0
chrY_DS4839 31v1_random	1190	0	0	0
chrY_DS4839 96v1_random	0	0	0	0
chrY_DS4838 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
chrY_CP0071 18v1_random	0	0	0	0
chrY_CP0071 07v1_random	0	0	0	0
chrY_CP0071 08v1_random	0	0	0	0

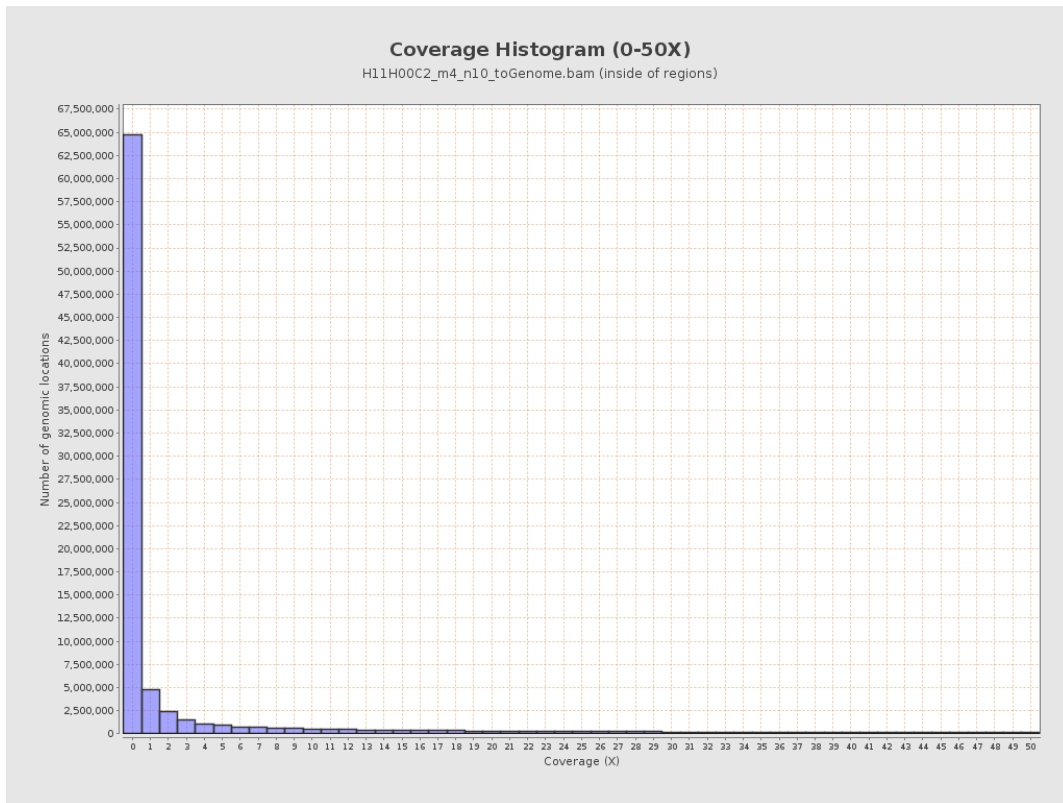
### 3. Results : Coverage across reference (inside of regions)



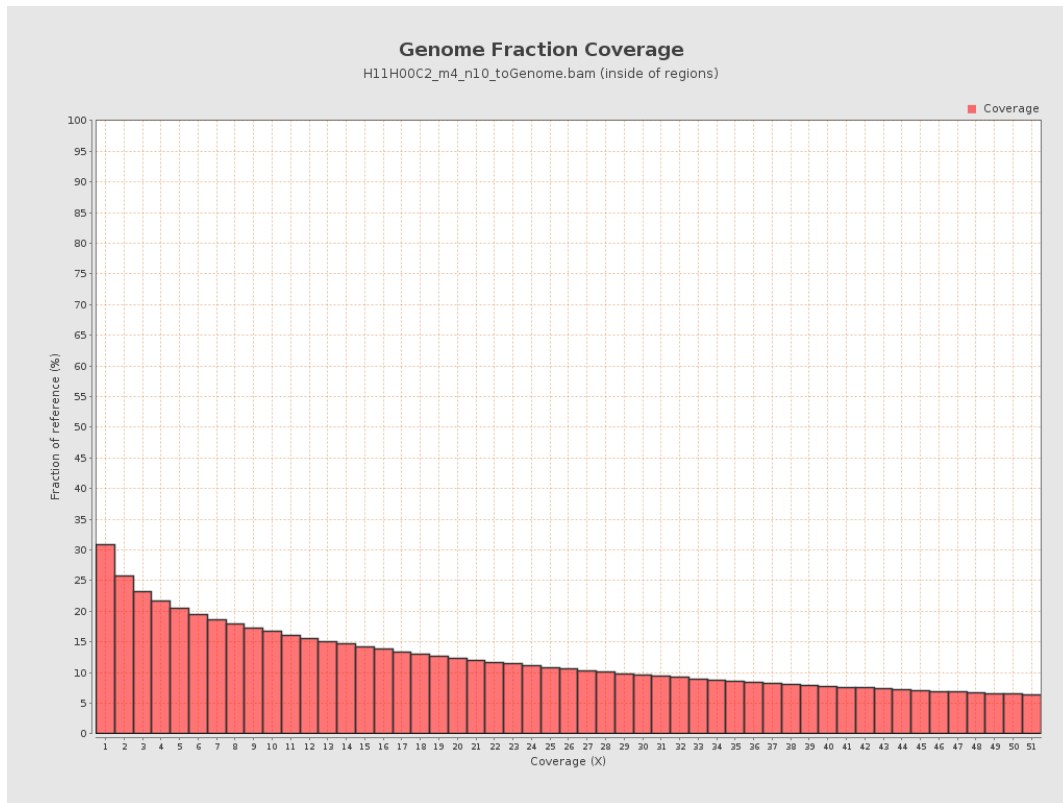
# 4. Results : Coverage Histogram (inside of regions)



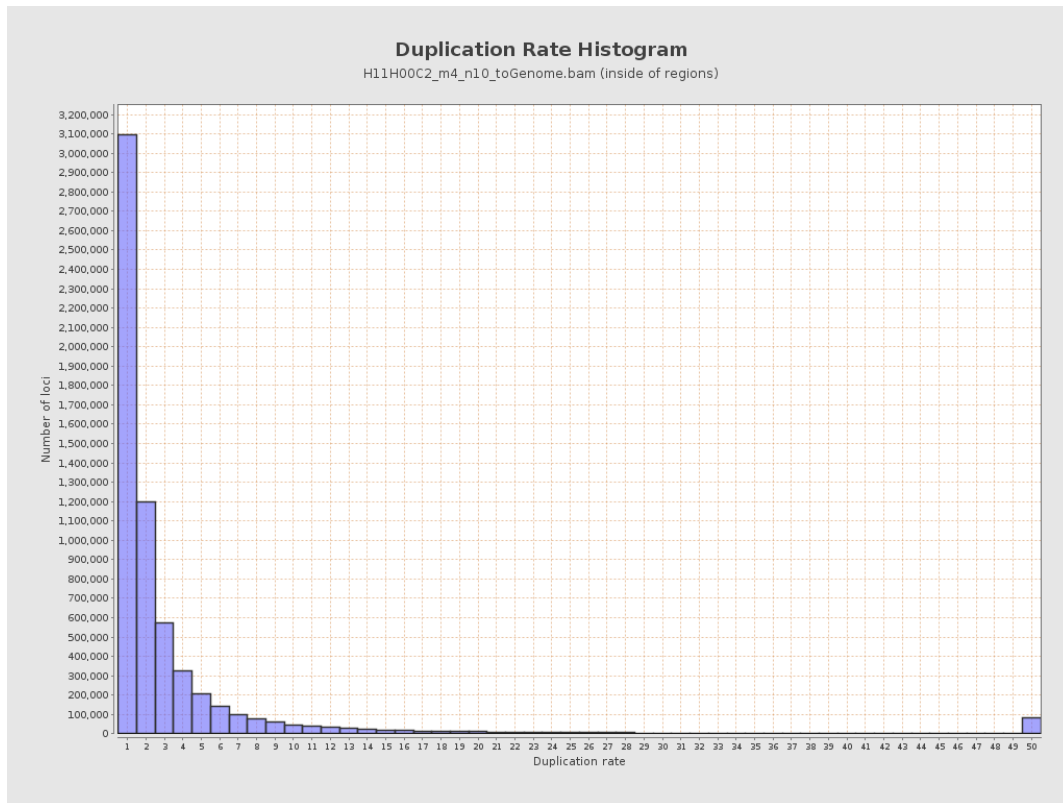
## 5. Results : Coverage Histogram (0-50X) (inside of regions)



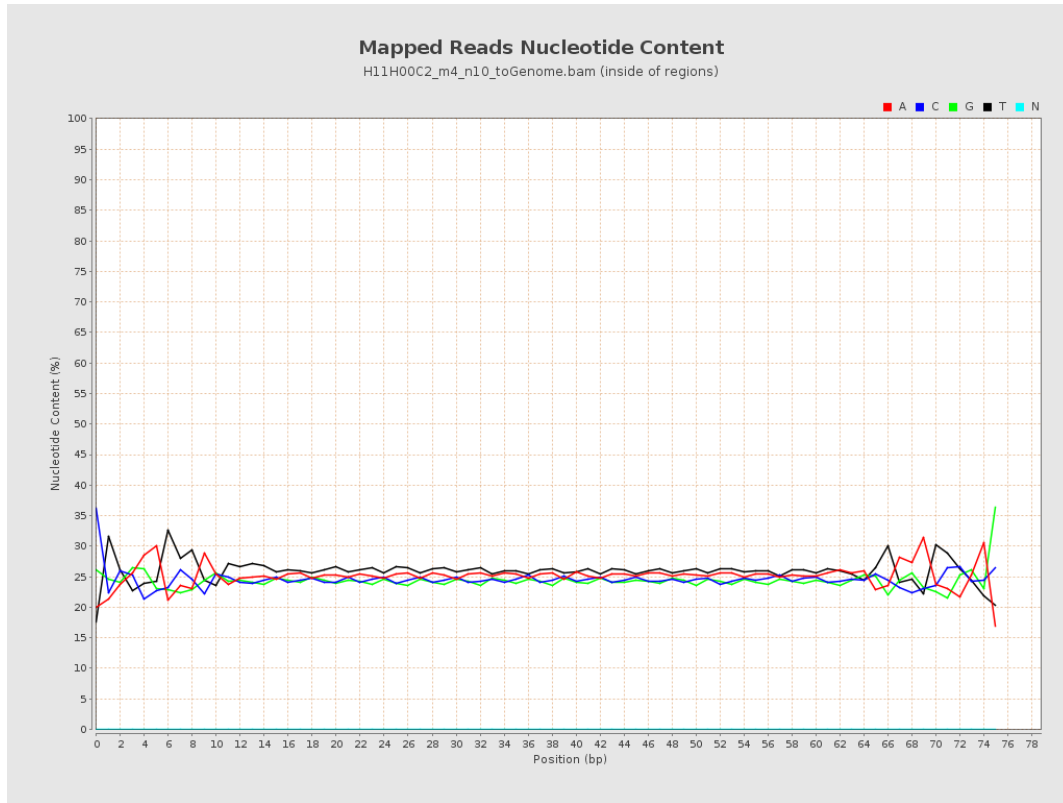
## 6. Results : Genome Fraction Coverage (inside of regions)



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

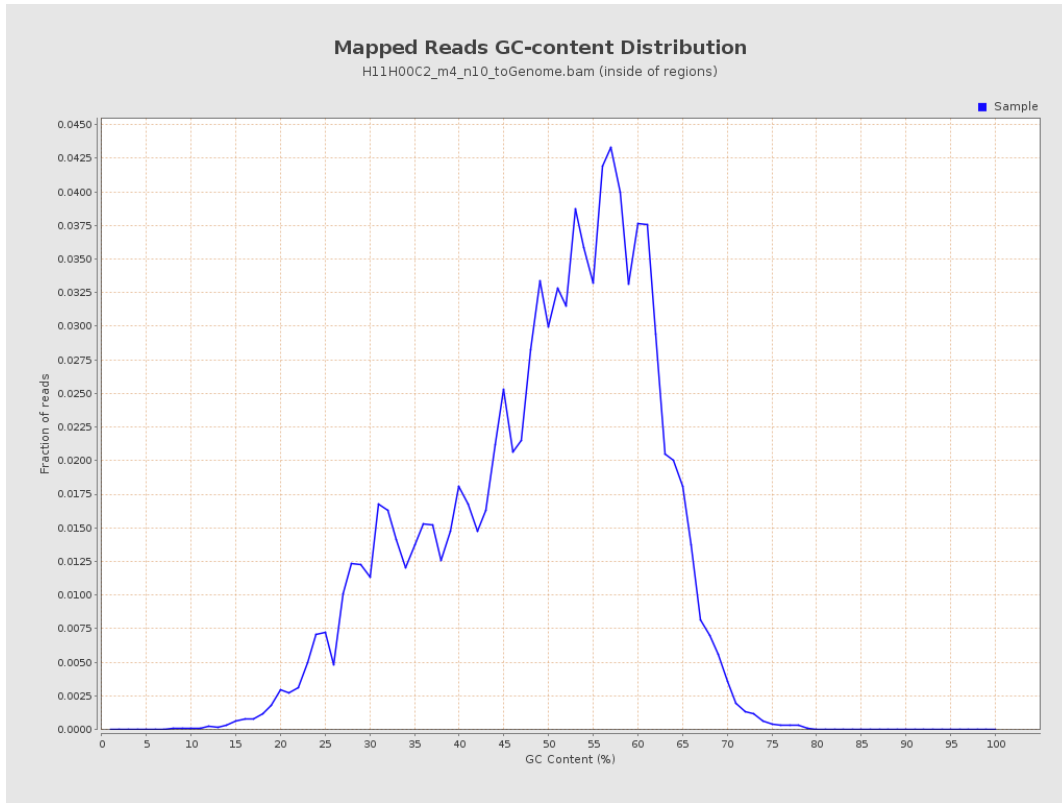


## 8. Results : Mapped Reads Nucleotide Content (inside of regions)

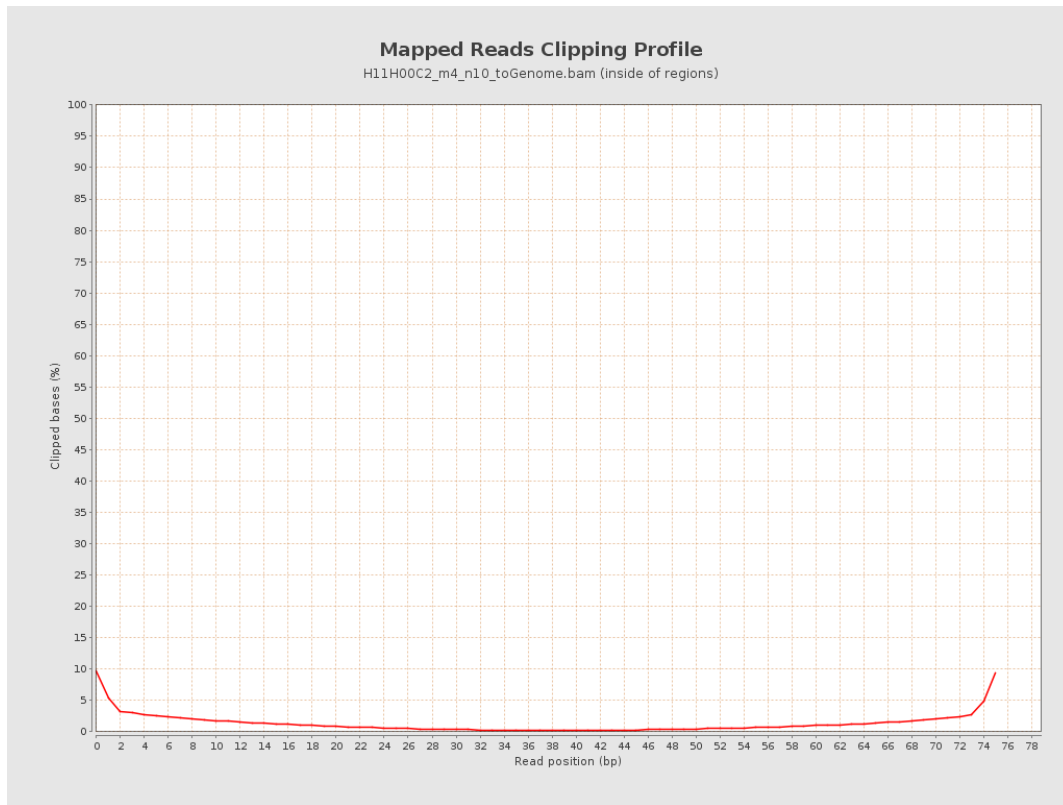




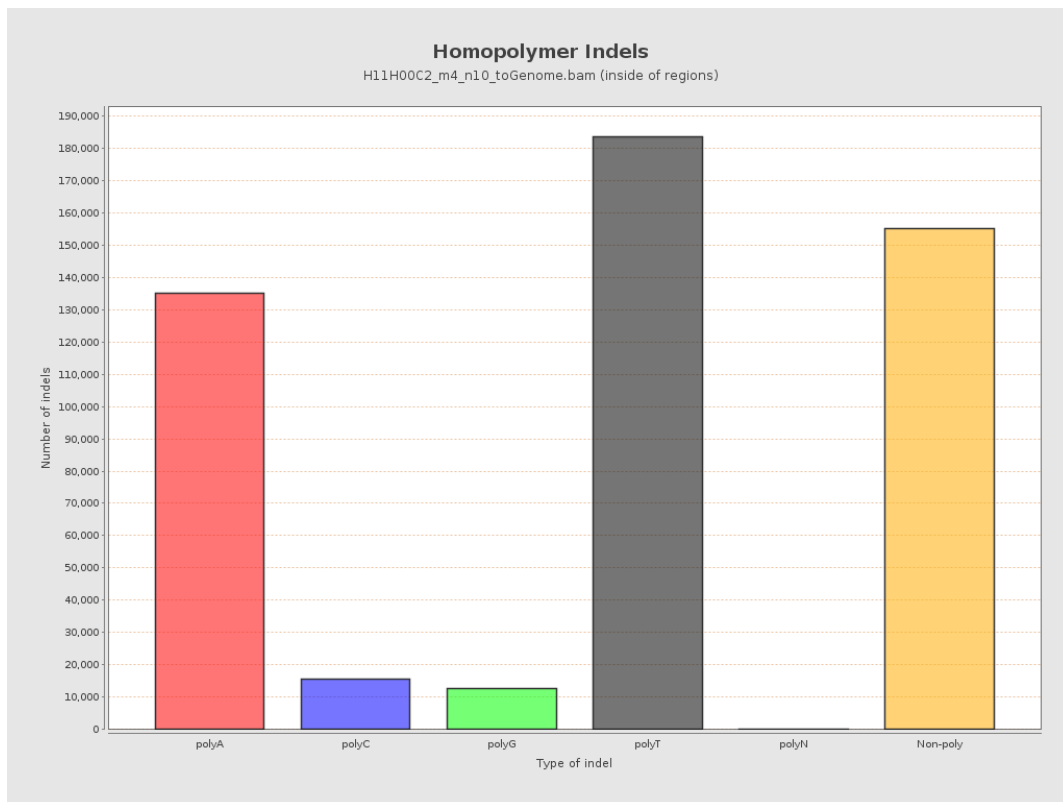
## 9. Results : Mapped Reads GC-content Distribution (inside of regions)



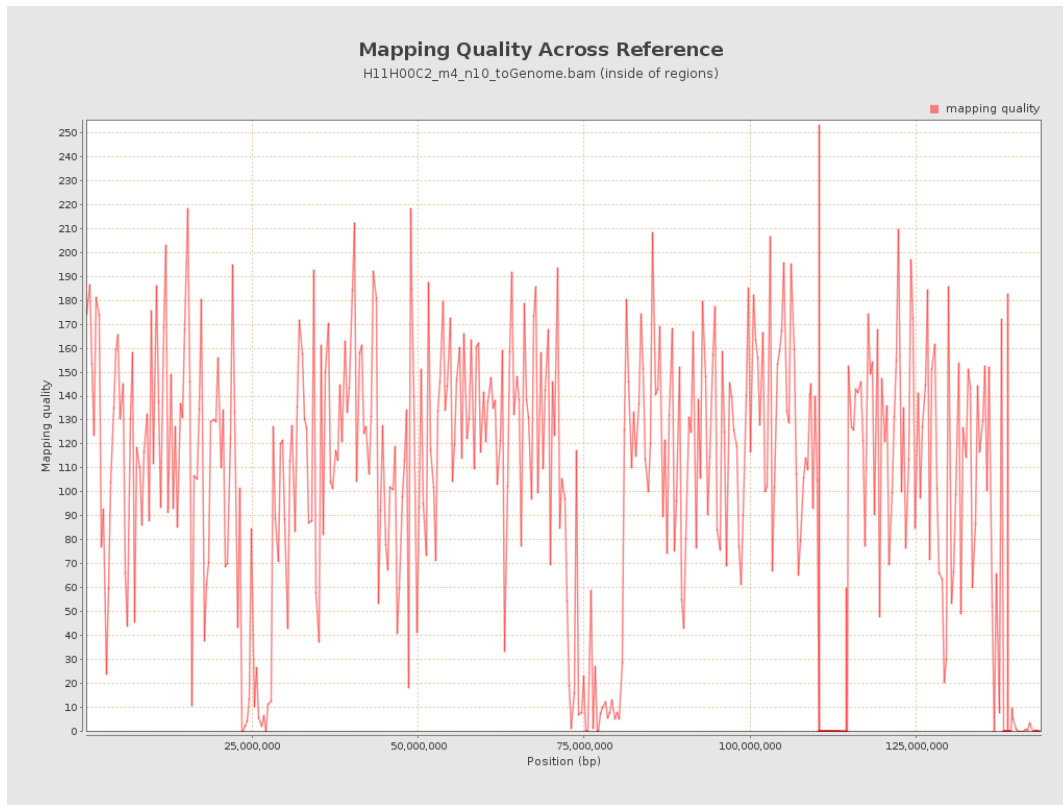
## 10. Results : Mapped Reads Clipping Profile (inside of regions)



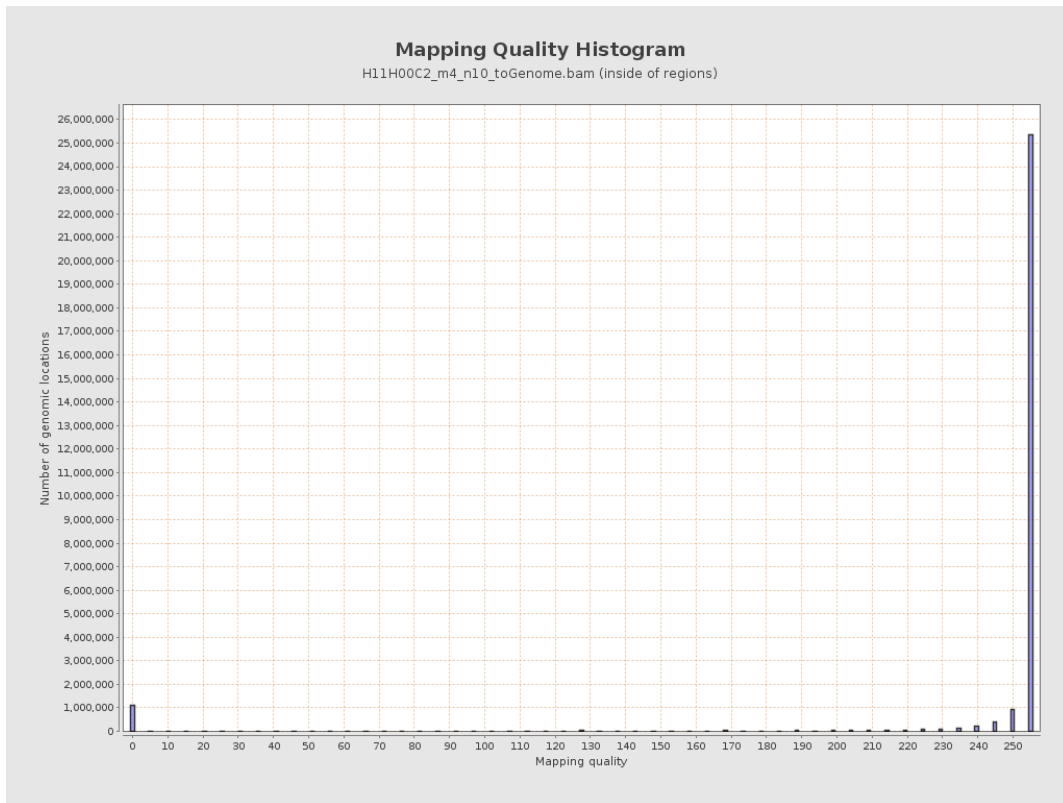
## 11. Results : Homopolymer Indels (inside of regions)



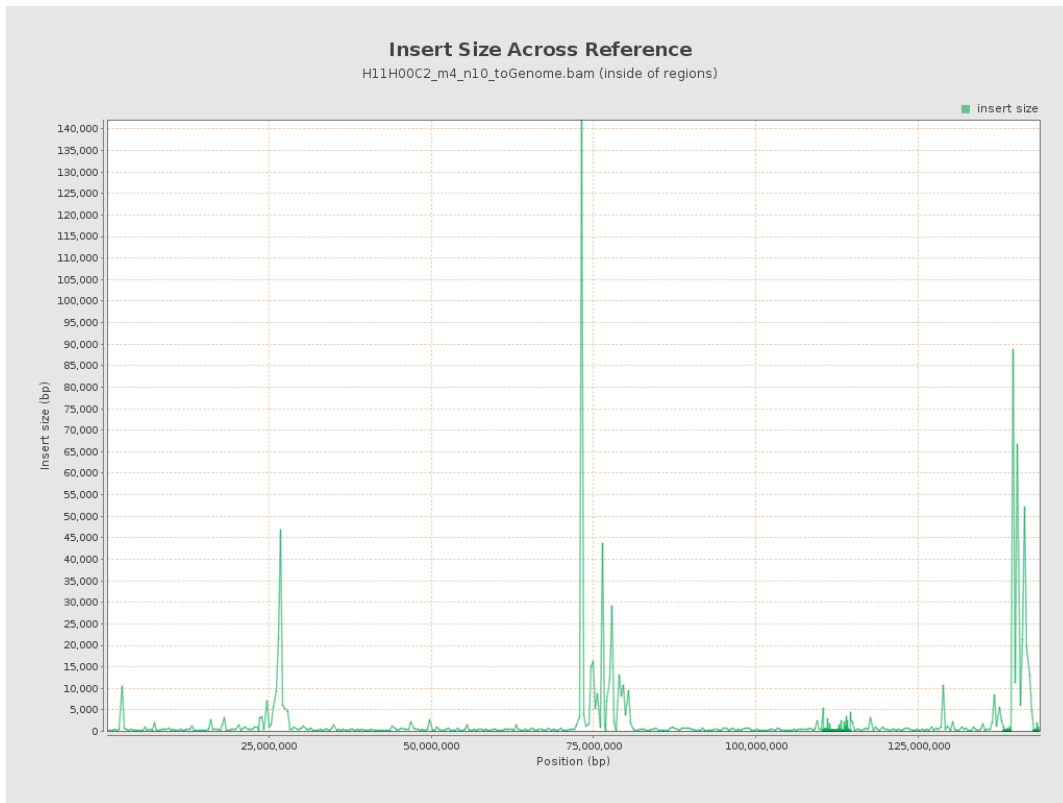
## 12. Results : Mapping Quality Across Reference (inside of regions)



# 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)

