

# Qualimap Analysis Results

*BAM QC analysis*

*Generated by Qualimap v.2.2.2-dev*

*2022/03/02 02:57:56*

# 1. Input data & parameters

## 1.1. QualiMap command line

```
qualimap bamqc -bam
output/UF801/UF801_f4_q37_sortc_markdup.rescaled.bam -nw 400 -hm 3
```

## 1.2. Alignment

Command line:	bwa samse -r @RG\tID:UF801\tSM:UF801\tLB:nan\ tPL:ILLUMINA /data/stonelab/references/Human_mit ochondrial/NC_012920.1.fasta output/UF801/UF801-ancient.sai output/UF801/UF801- ancient.trimmed.fq
Draw chromosome limits:	no
Analyze overlapping paired-end reads:	no
Program:	bwa (0.7.17-r1188)
Analysis date:	Wed Mar 02 02:57:55 MST 2022
Size of a homopolymer:	3
Skip duplicate alignments:	no
Number of windows:	400
BAM file:	output/UF801/UF801_f4_q37_sortc_ markdup.rescaled.bam

## 2. Summary

### 2.1. Globals

Reference size	16,569
Number of reads	962
Mapped reads	962 / 100%
Unmapped reads	0 / 0%
Mapped paired reads	0 / 0%
Secondary alignments	0
Read min/max/mean length	30 / 129 / 62.36
Duplicated reads (estimated)	24 / 2.49%
Duplication rate	2.56%
Clipped reads	0 / 0%

### 2.2. ACGT Content

Number/percentage of A's	18,984 / 31.64%
Number/percentage of C's	17,902 / 29.84%
Number/percentage of T's	15,992 / 26.66%
Number/percentage of G's	7,114 / 11.86%
Number/percentage of N's	0 / 0%
GC Percentage	41.7%

### 2.3. Coverage

Mean	3.6209
Standard Deviation	2.0308

## 2.4. Mapping Quality

Mean Mapping Quality	35.77
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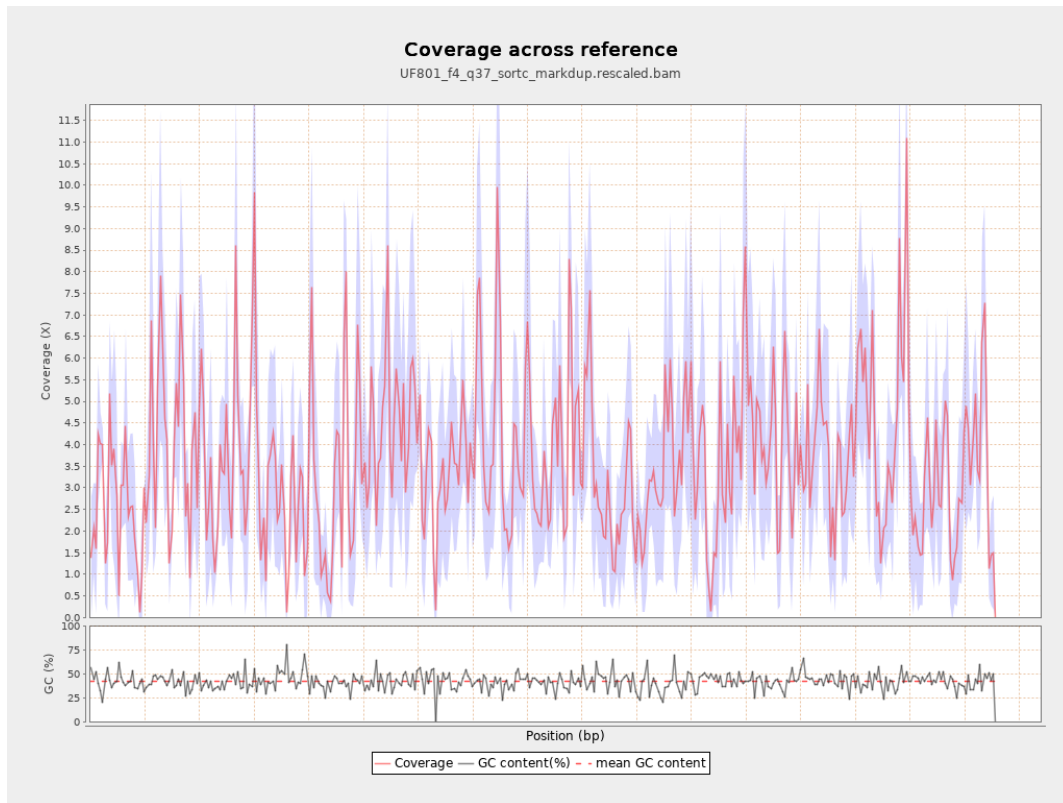
## 2.5. Mismatches and indels

General error rate	2.76%
Mismatches	1,651
Insertions	2
Mapped reads with at least one insertion	0.1%
Deletions	2
Mapped reads with at least one deletion	0.21%
Homopolymer indels	25%

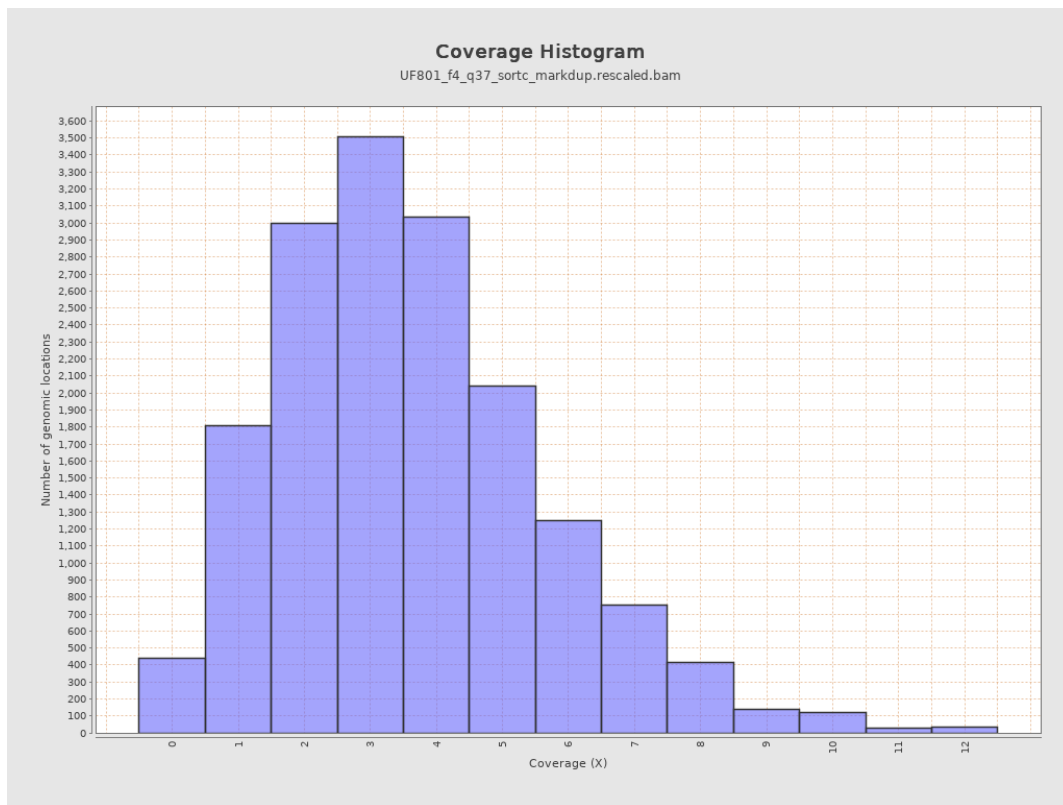
## 2.6. Chromosome stats

Name	Length	Mapped bases	Mean coverage	Standard deviation
NC_012920.1	16569	59994	3.6209	2.0308

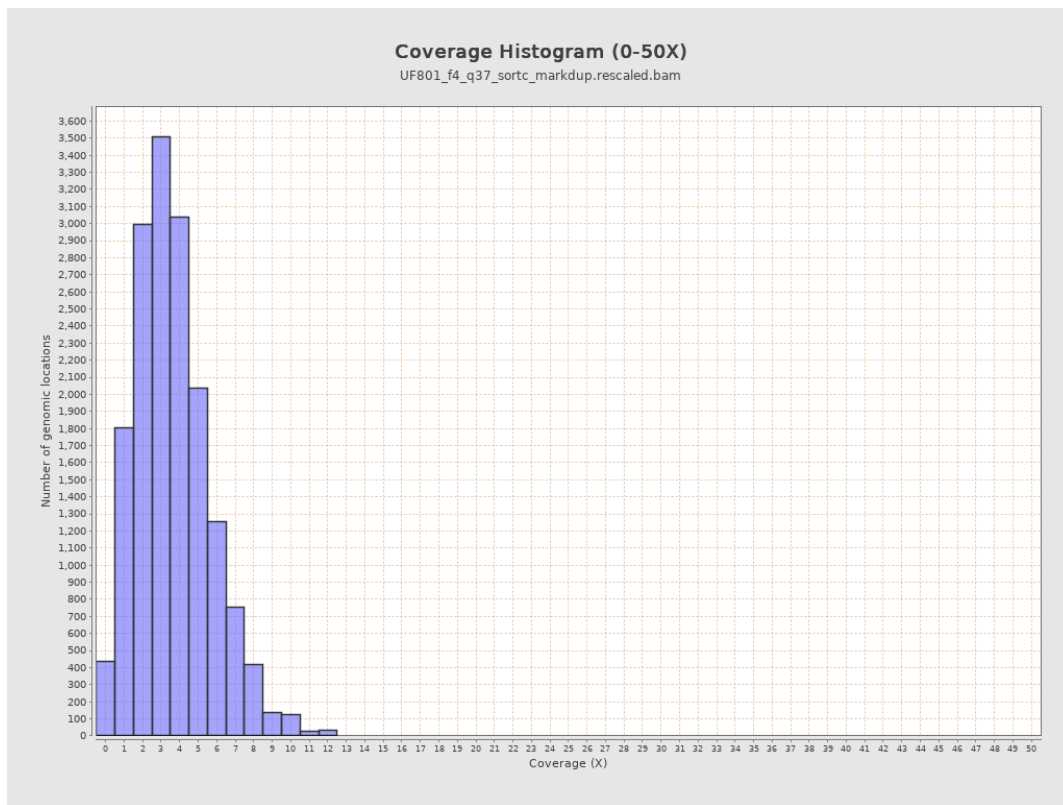
### 3. Results : Coverage across reference



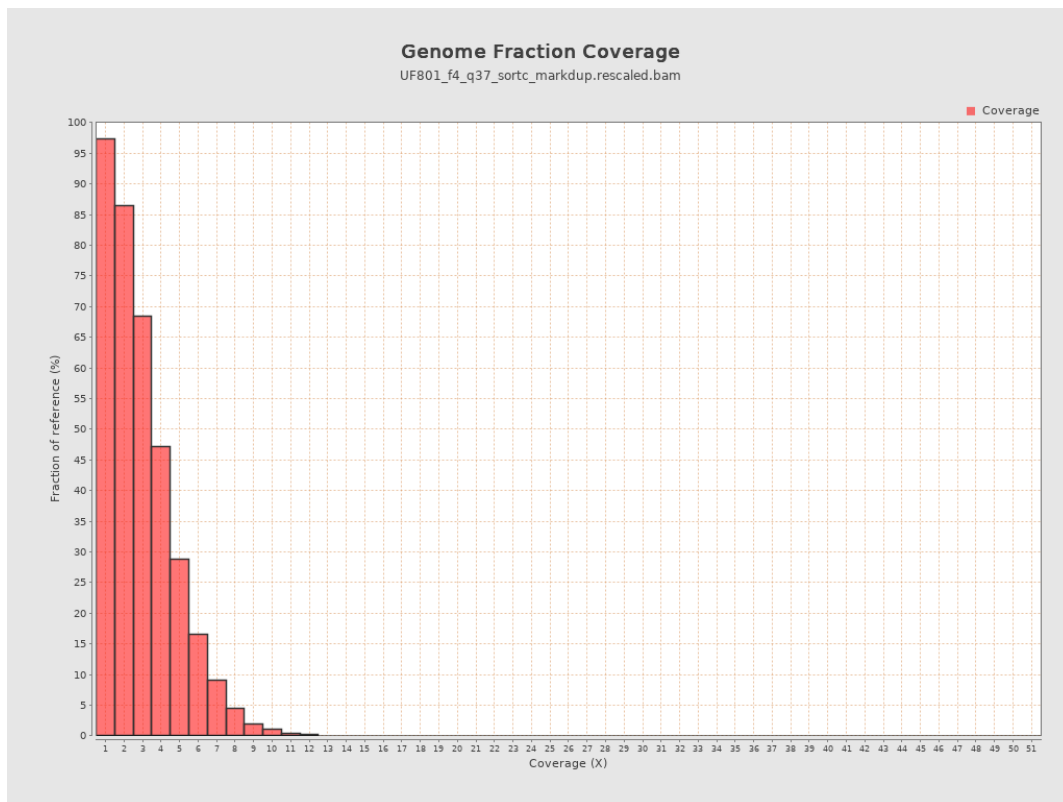
## 4. Results : Coverage Histogram



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

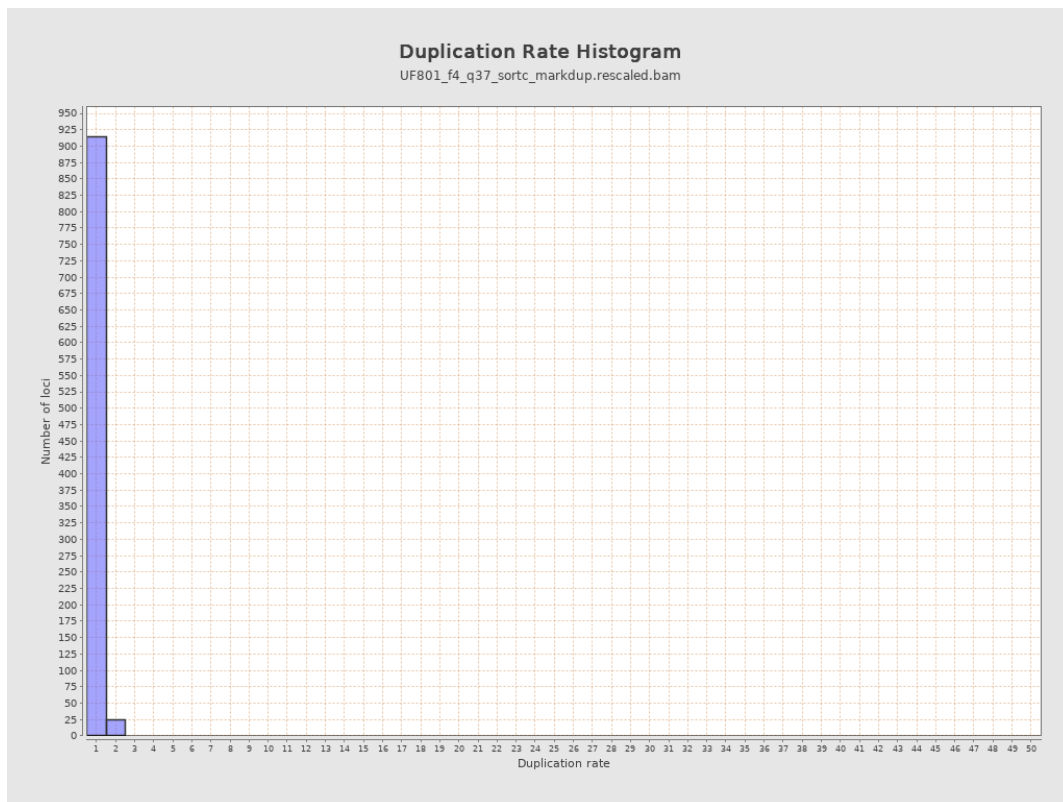


## 6. Results : Genome Fraction Coverage

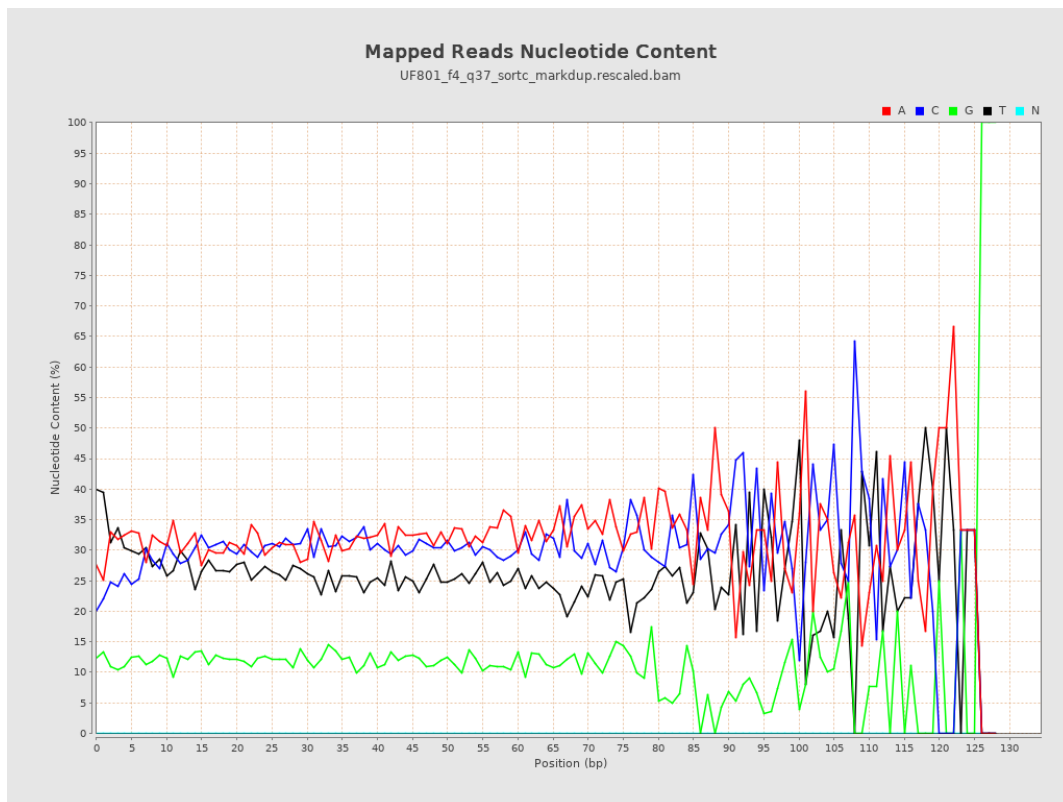




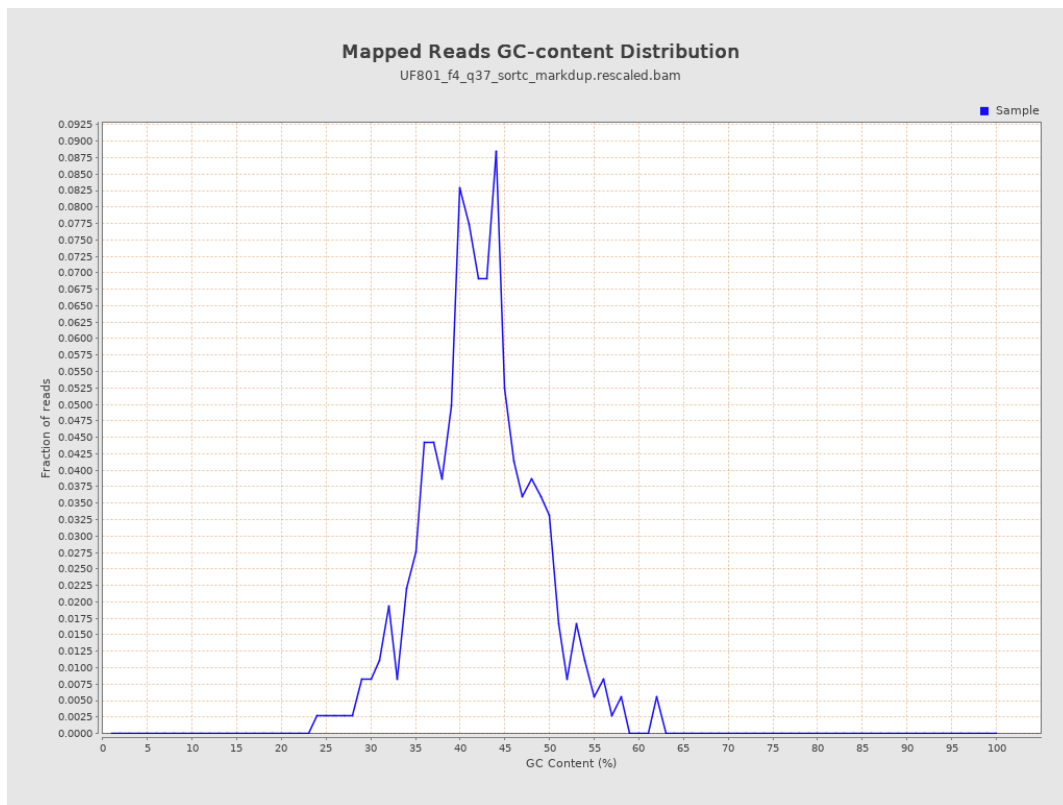
## 7. Results : Duplication Rate Histogram



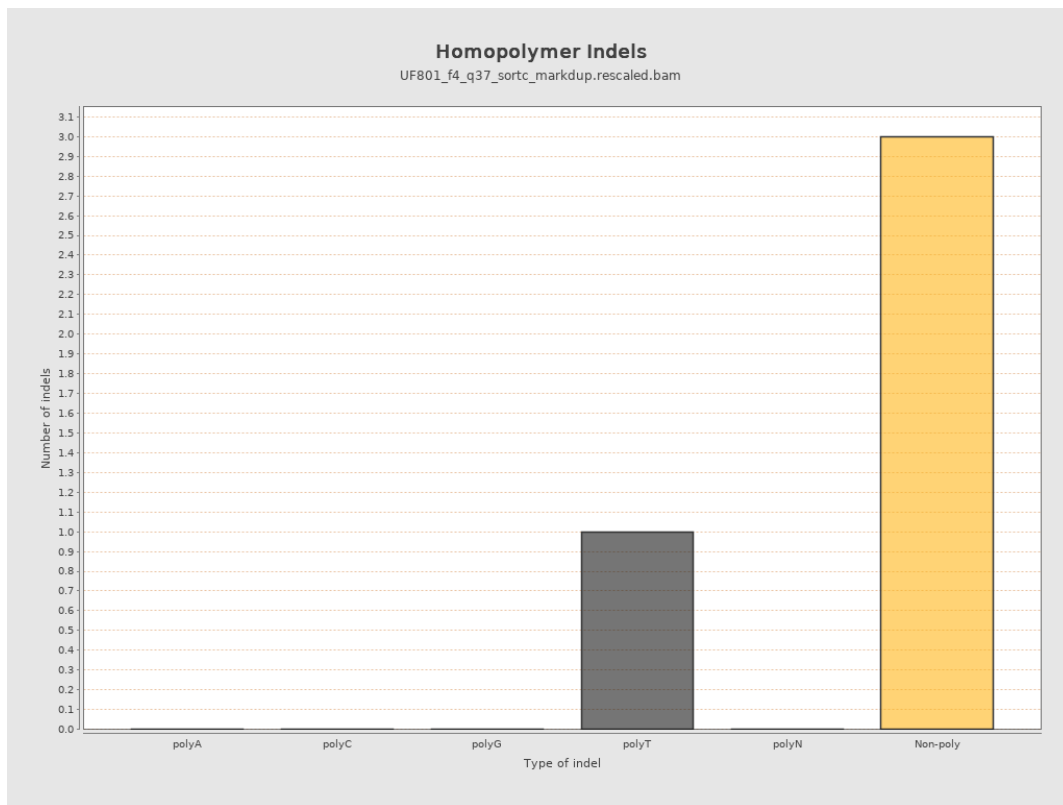
## 8. Results : Mapped Reads Nucleotide Content



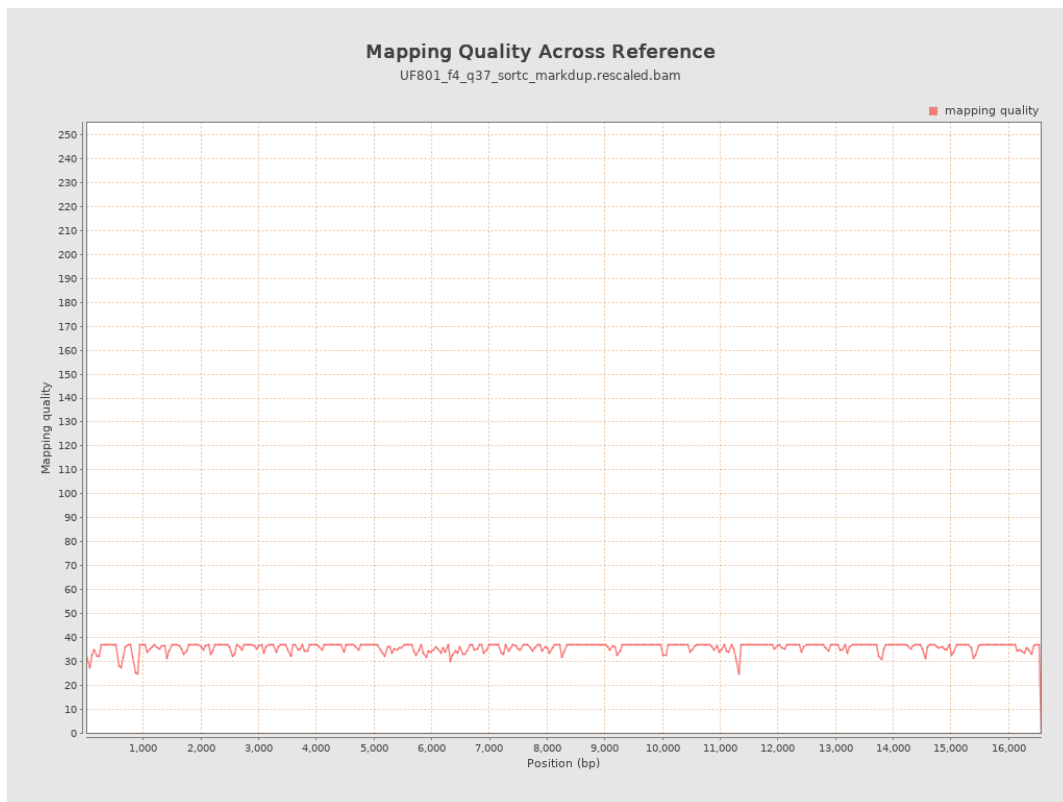
## 9. Results : Mapped Reads GC-content Distribution



## 10. Results : Homopolymer Indels



## 11. Results : Mapping Quality Across Reference



## 12. Results : Mapping Quality Histogram

