

Chromatin & Pseudogenes

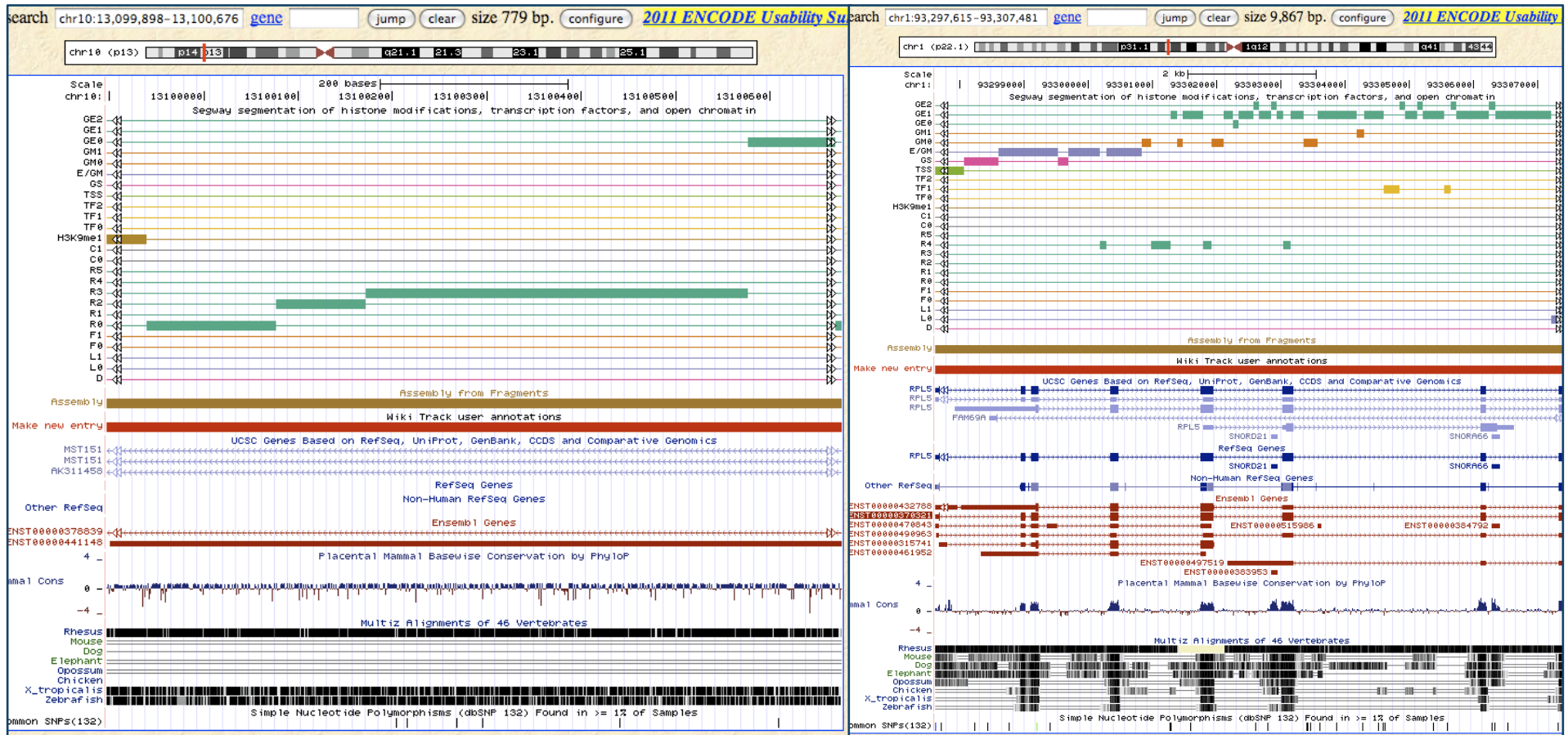
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Annotations - 12th May 2010

Tools

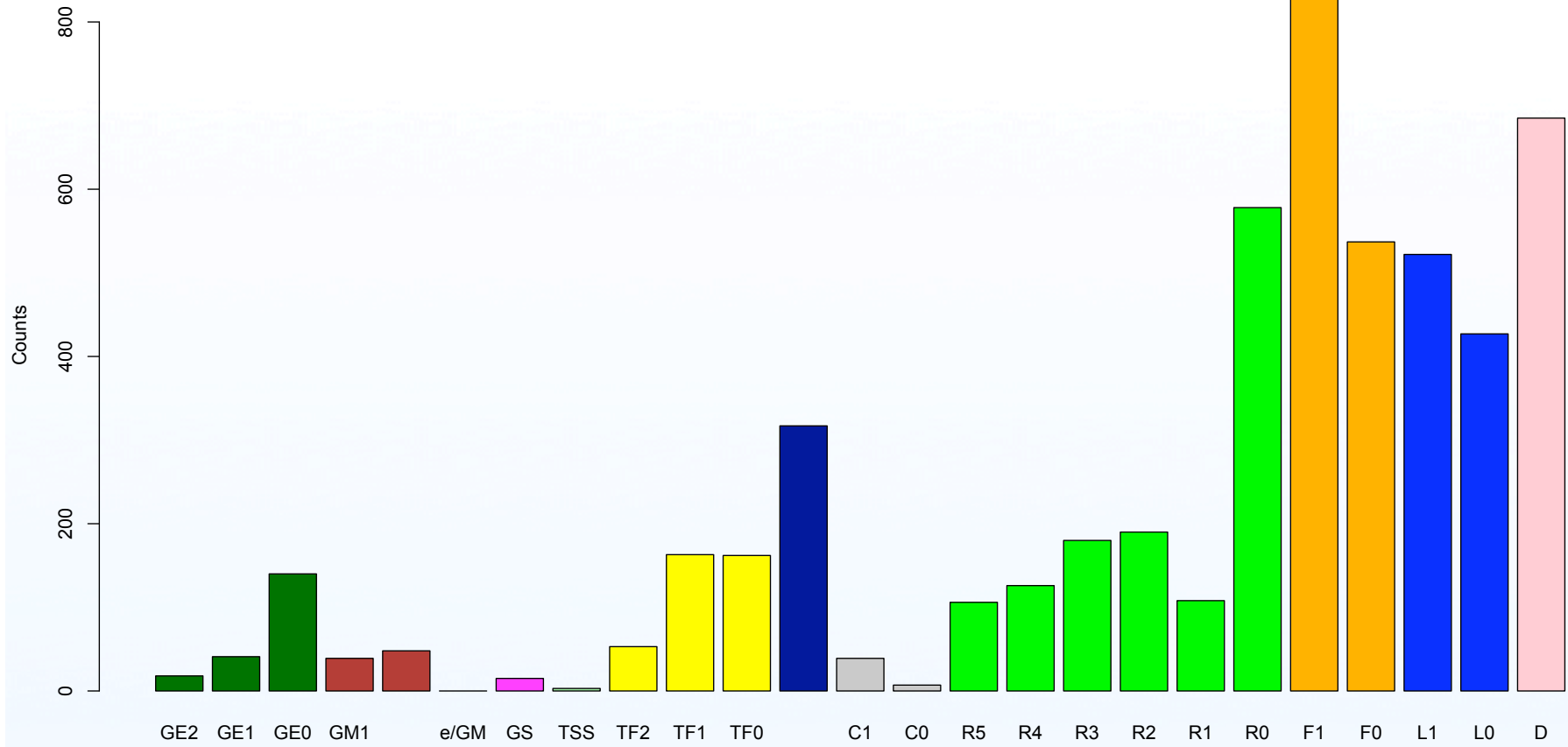
- Segway segmentation
- Pseudogene.org
- hg19 assembly
- Genome browser
- Chromosome 10:
 - 370 processed pgenes,
 - 108 duplicated pgenes,
 - 276 ambiguous pgenes.

| | |
|---------|--|
| GE2 | Gene body (end) |
| GE1 | |
| GE0 | |
| GM1 | Gene body (middle) |
| GM0 | |
| E/GM | Enhancer/Gene middle |
| GS | Gene body (start) |
| TSS | Transcription start site |
| TF2 | Transcription factor activity |
| TF1 | |
| TF0 | |
| H3K9me1 | H3K9me1 only |
| C1 | CTCF (weak) |
| C0 | CTCF (strong) |
| R5 | Repression |
| R4 | |
| R3 | |
| R2 | |
| R1 | |
| R0 | |
| F1 | Low signal in all the observation tracks besides the FAIRE track |
| F0 | |
| L1 | Low signal zone |
| L0 | |
| D | Dead zone |

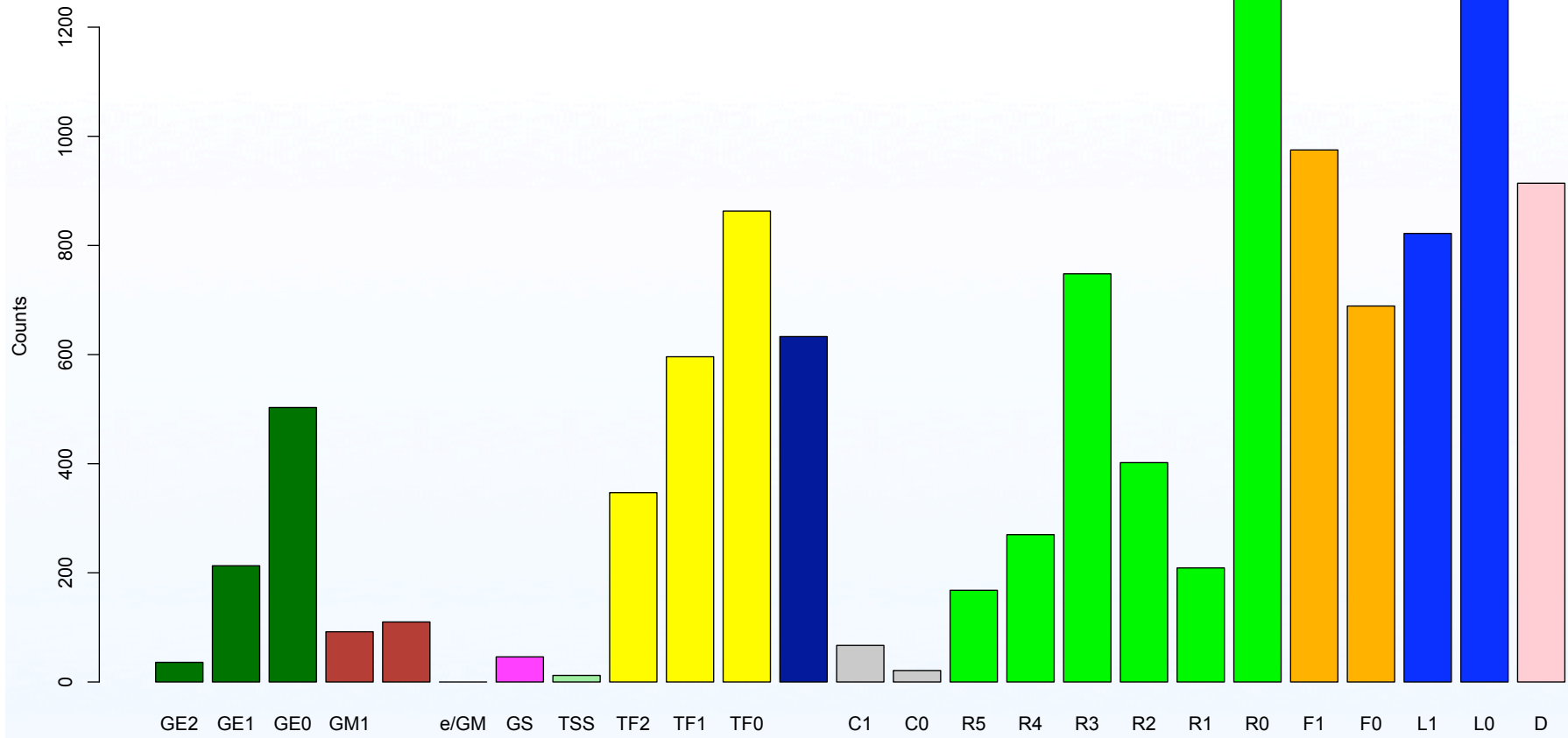
Pgene vs Parent-gene



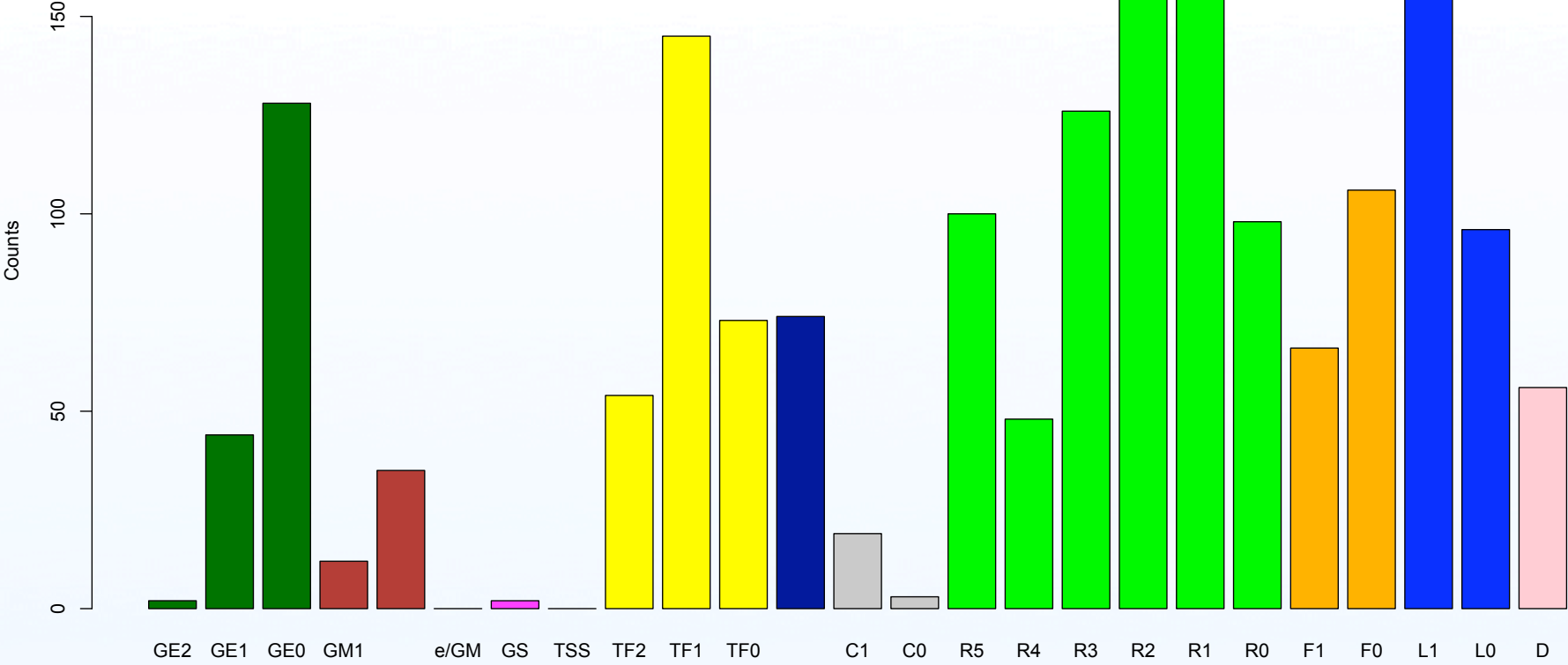
Processed Pgenes



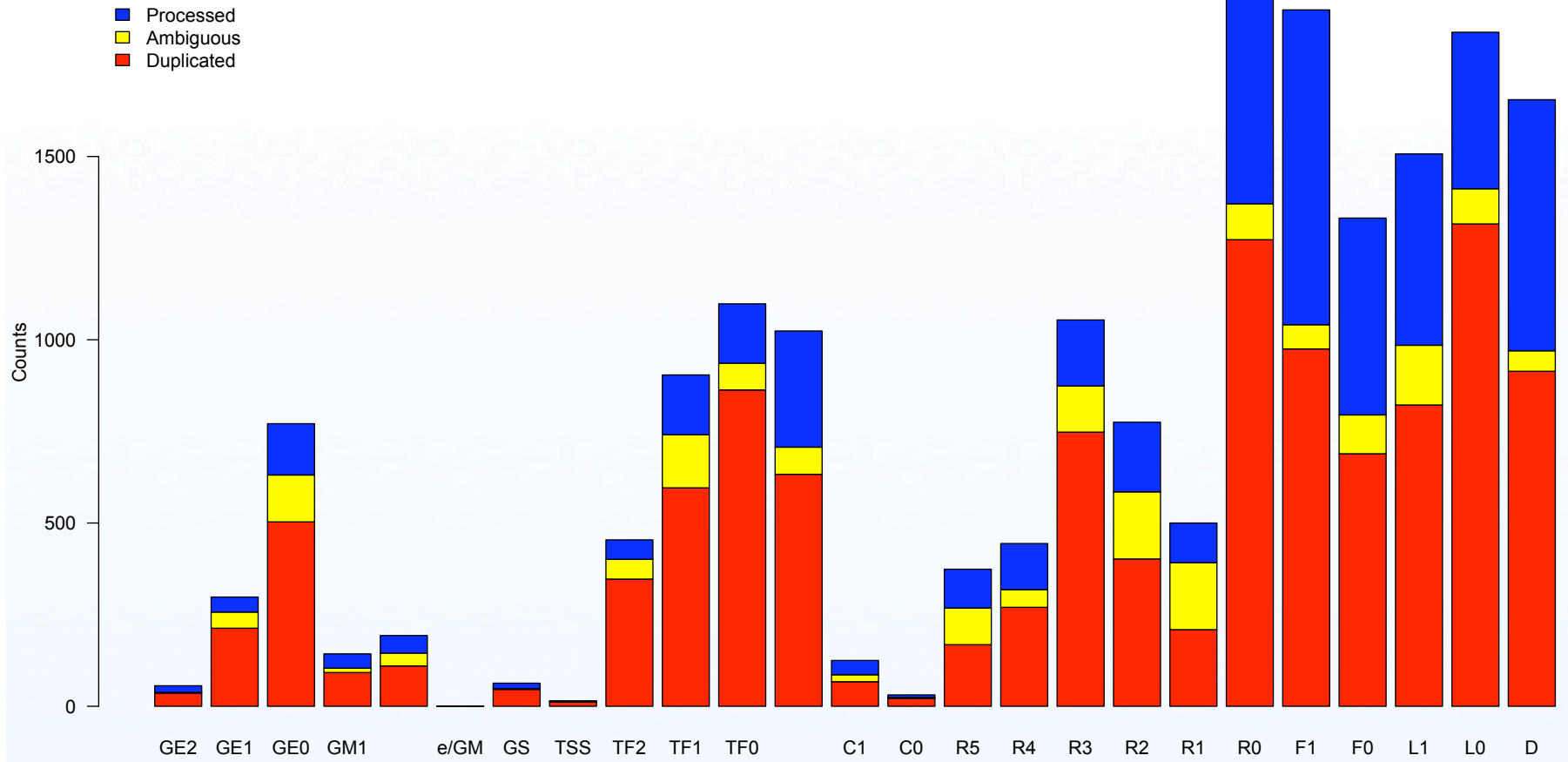
Duplicated Pgenes



Ambiguous Pgenes



Total



To Do's

- Complete analysis for all chromosomes
- Segmentation distribution for the parent-gene
 - Comparison parent-gene vs pgene
- Sequence profiling