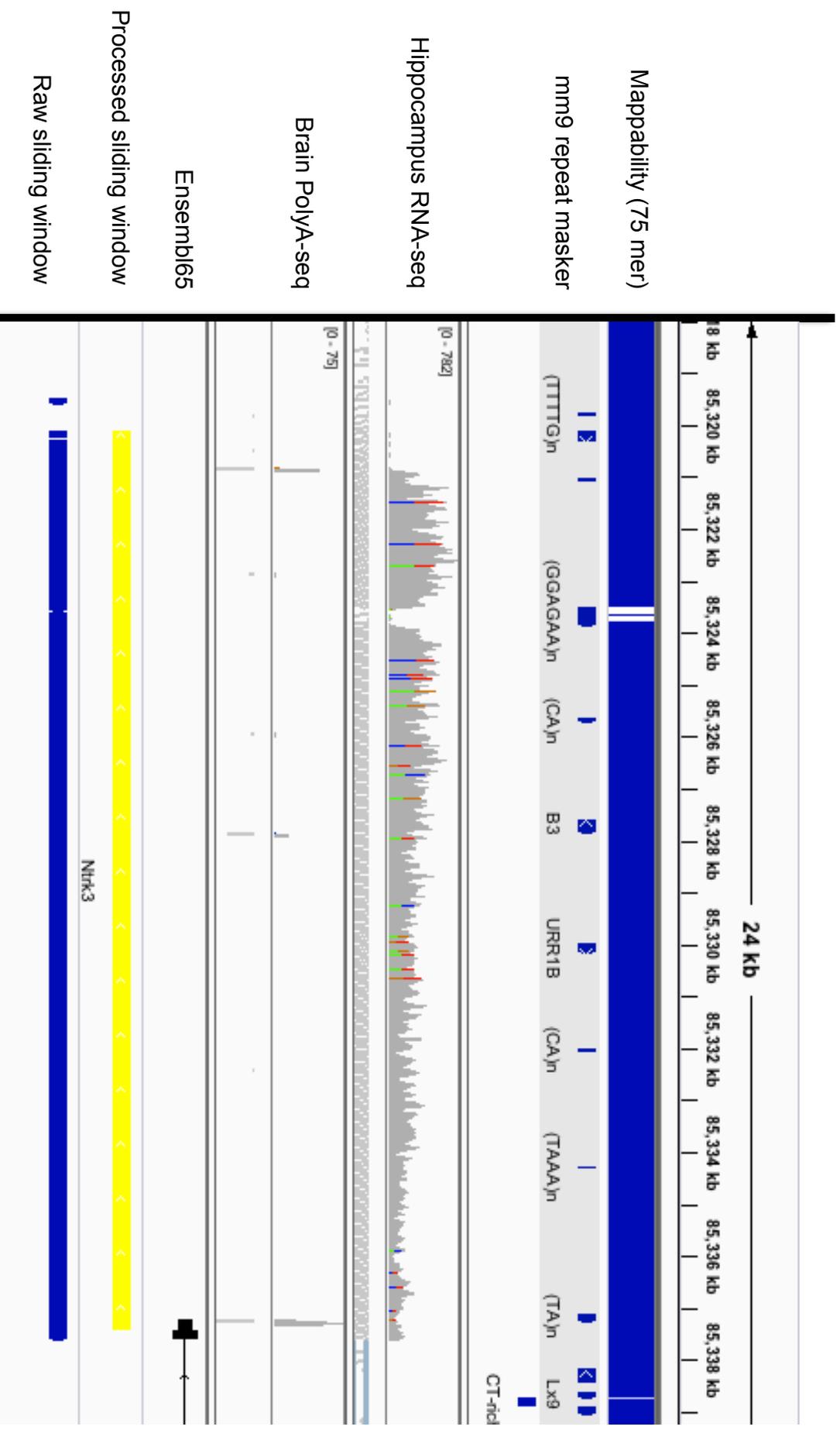


Ntrk3

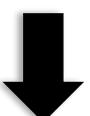
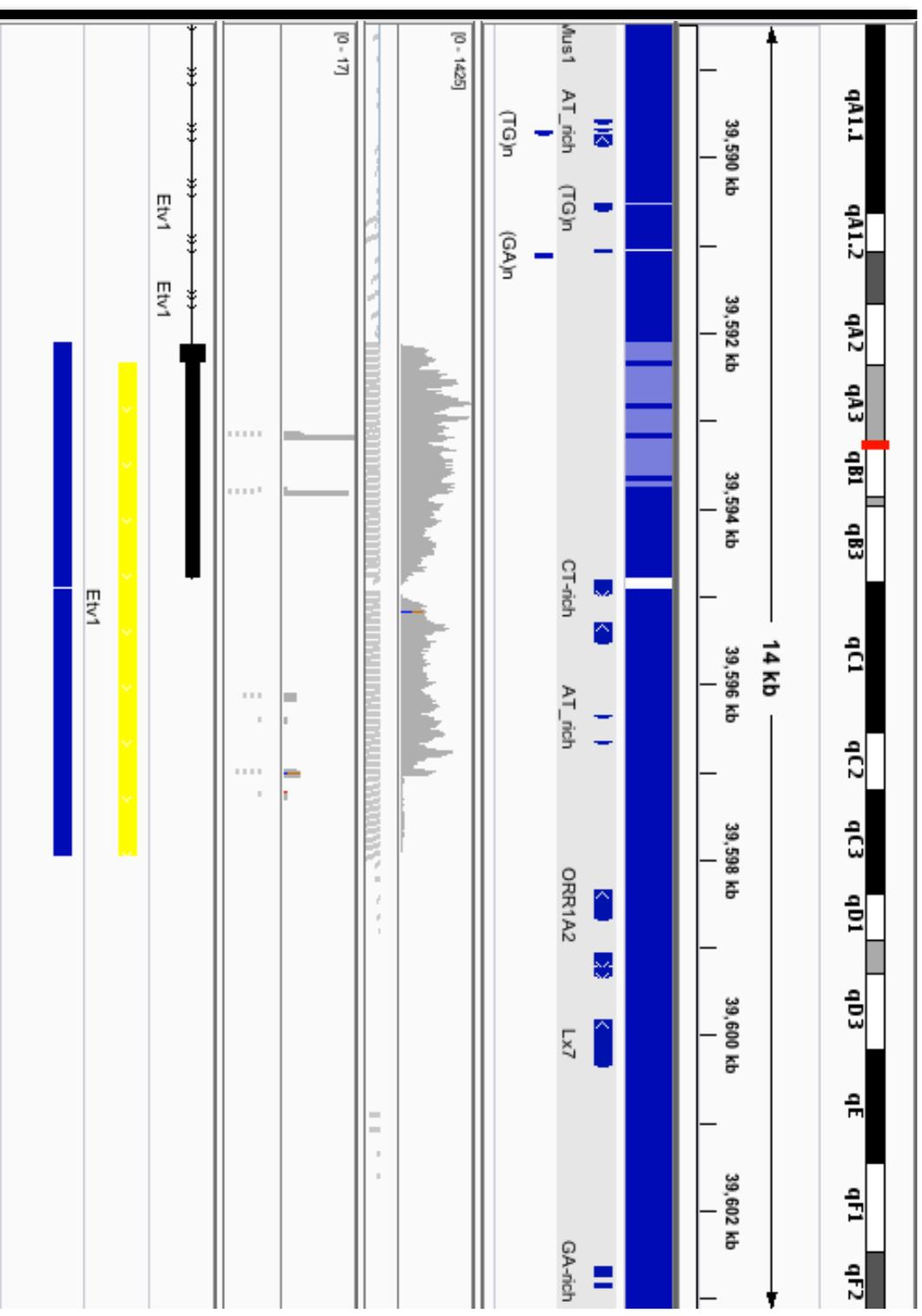
Example of merging windows that overlap repetitive elements
NORTHERN CONFIRMED



mouse

Etv1

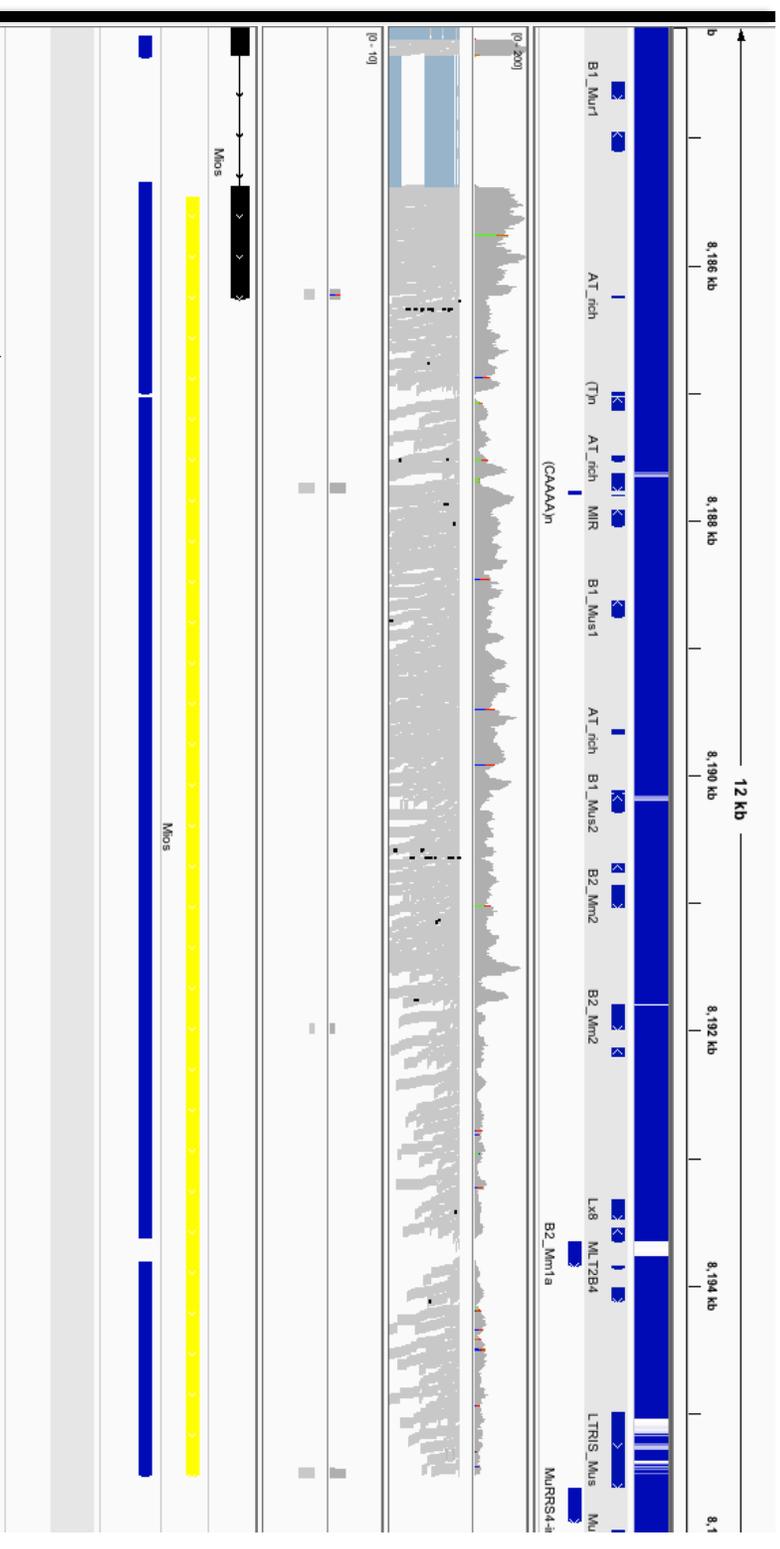
*Example of merging windows that overlap repetitive elements
NORTHERN CONFIRMED*



mouse

Mios

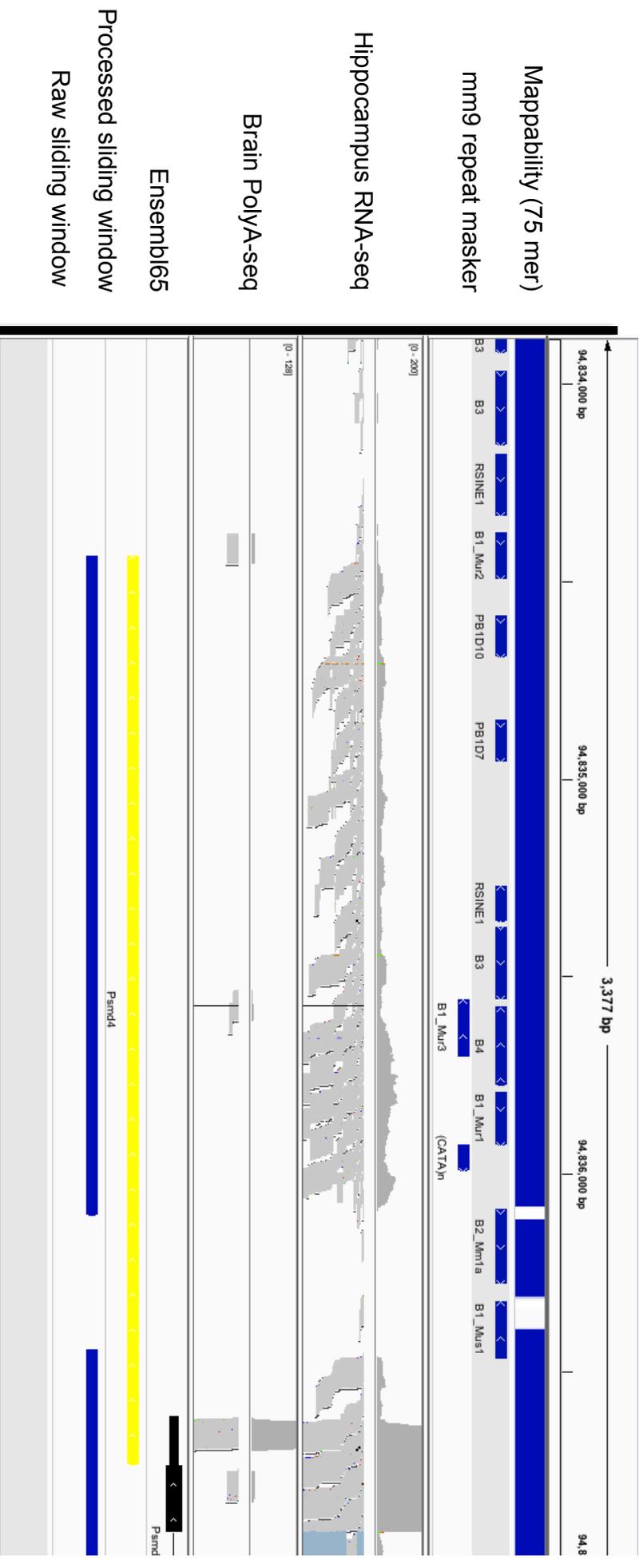
Example of merging windows that overlap repetitive elements



mouse

Psmnd4

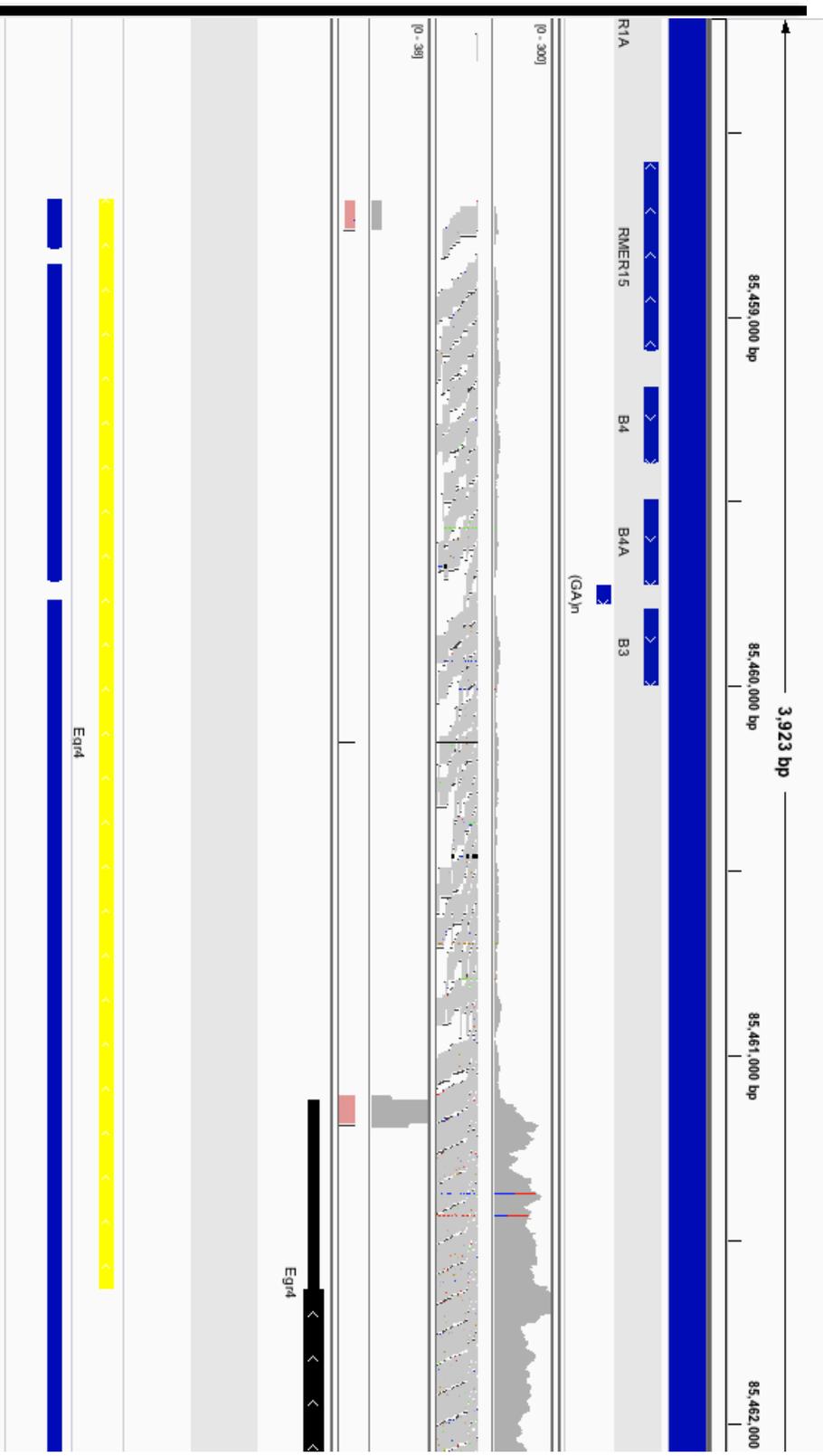
Example of merging windows that overlap repetitive elements



mouse

Egr4

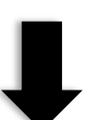
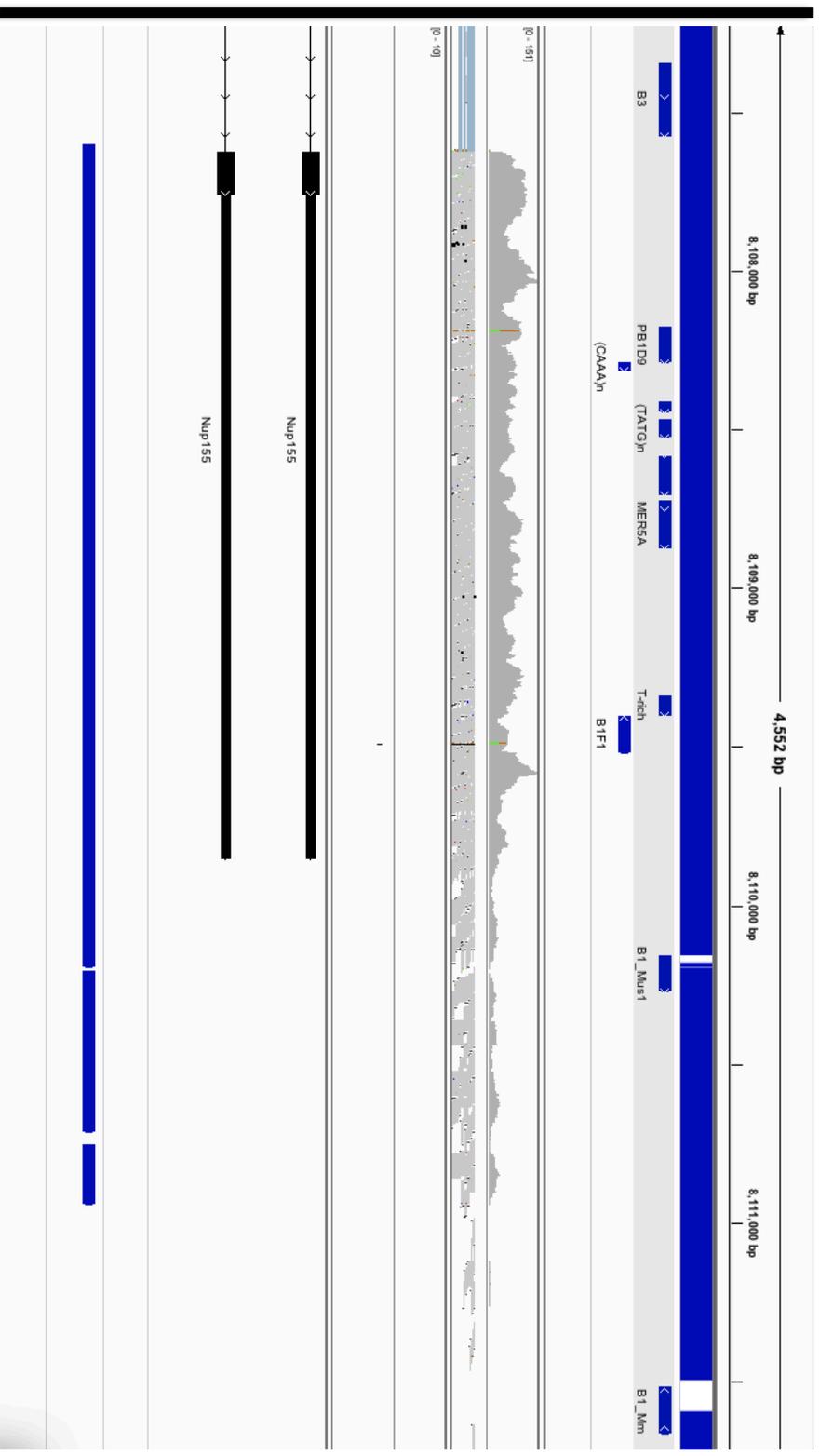
Example of merging windows that overlap repetitive elements.



mouse

Nup155

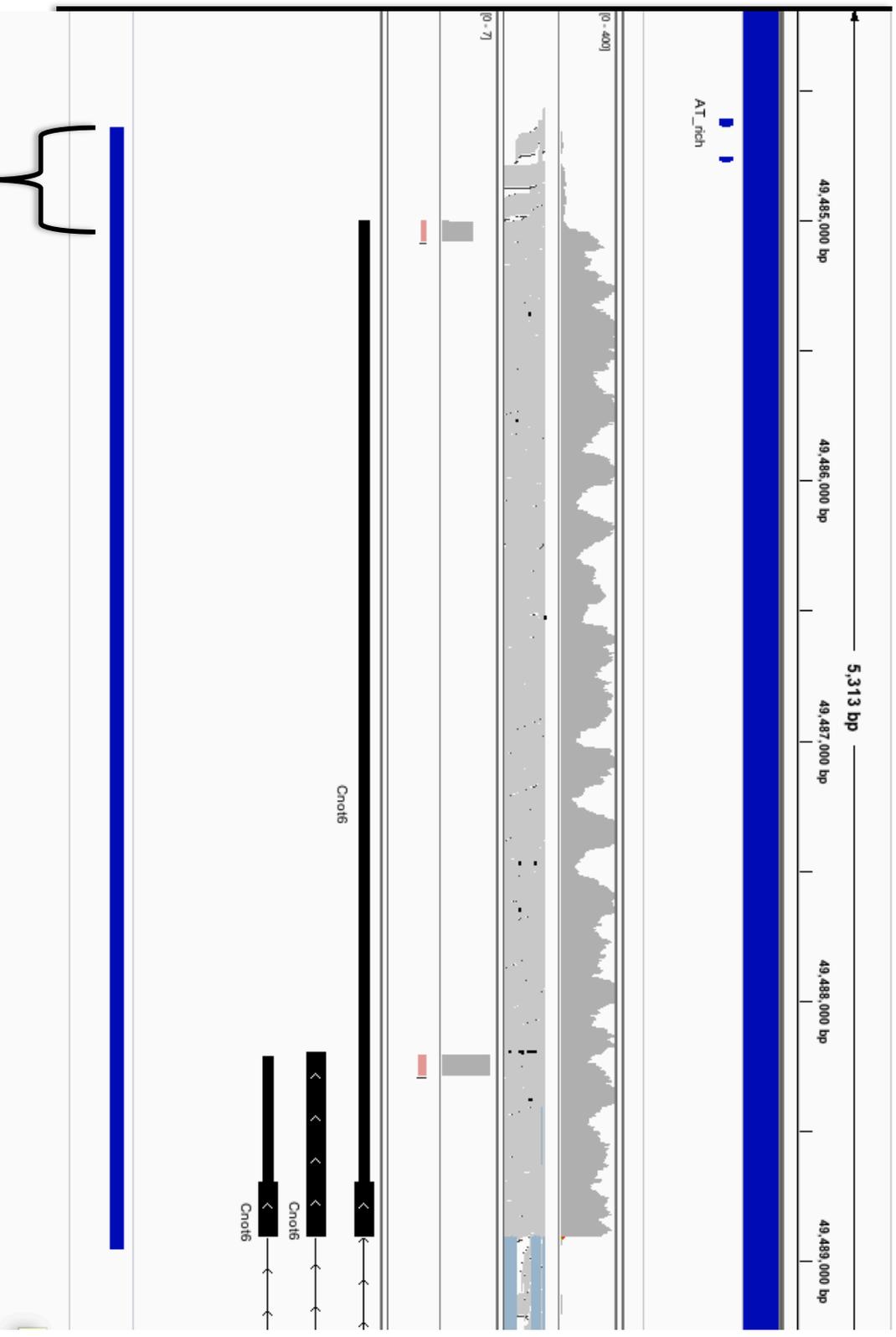
Call placed on “candidate” list. Extension called is below 1 fpkm threshold (0.96 fpkm).



mouse

Cnot6

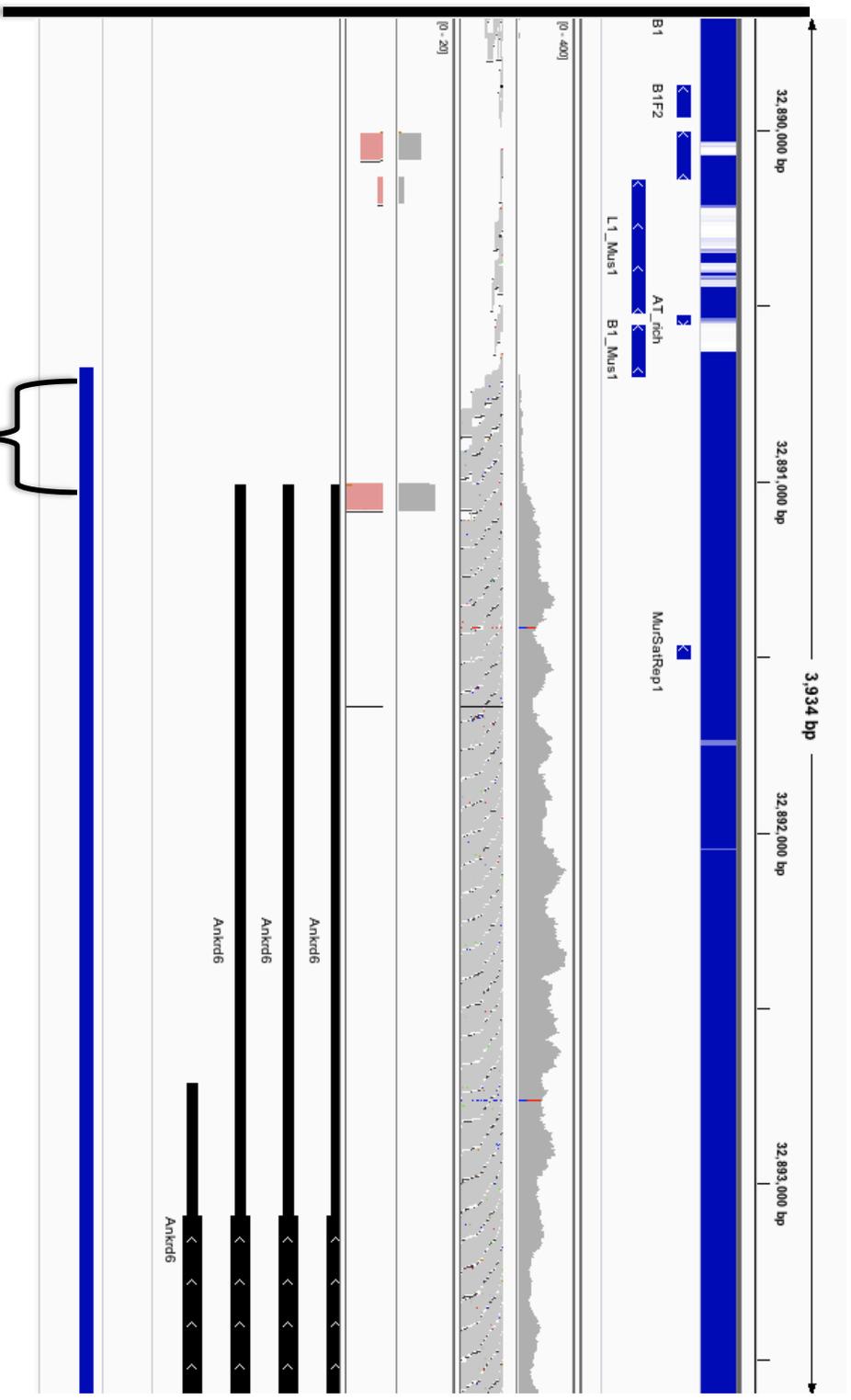
Extension on "candidate" list. Extended by less than 500 nt.



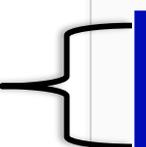
mouse

Ankrd6

Extension on "candidate" list. Extended by less than 500 nt.



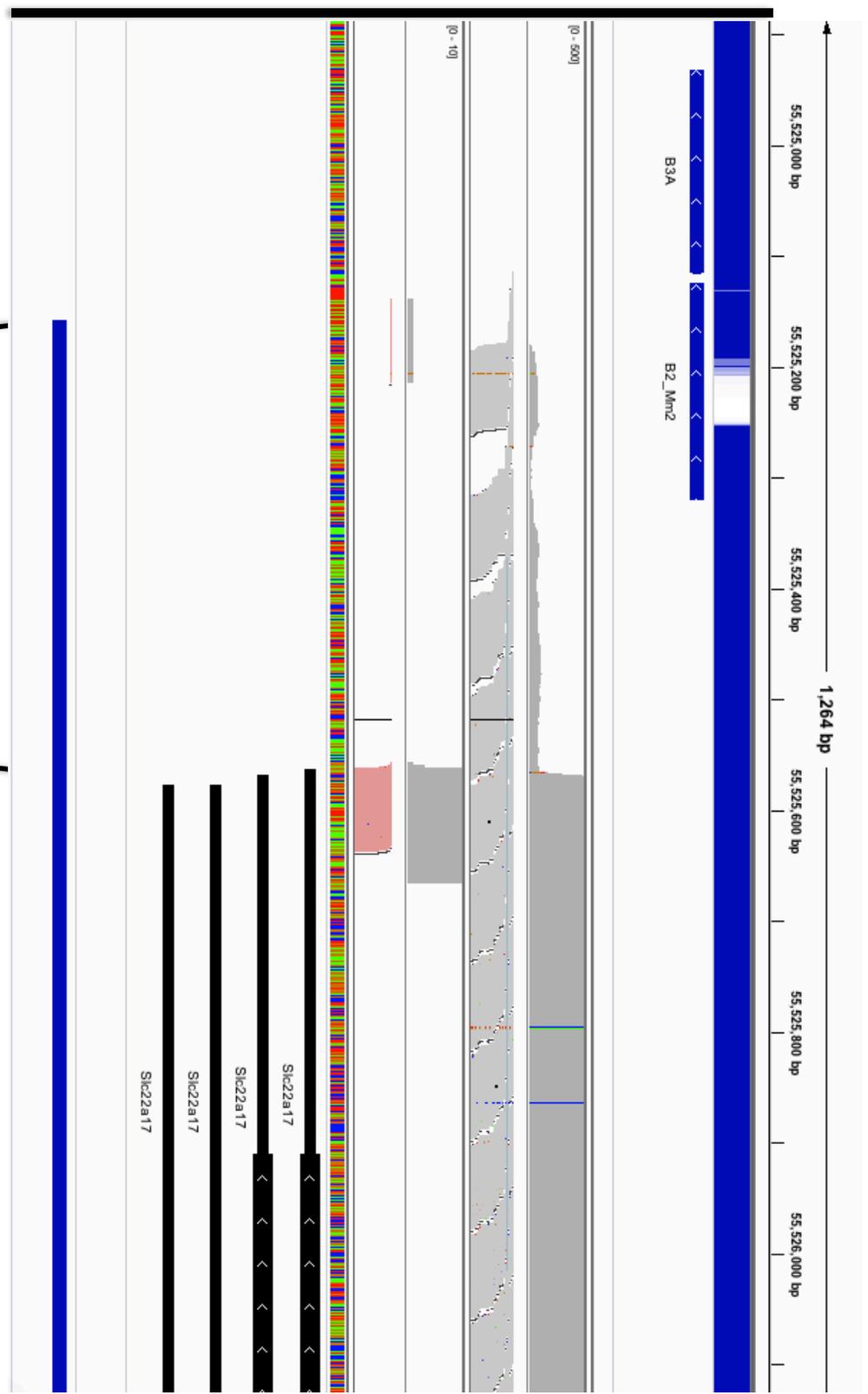
324 nt



mouse

Slc22a17

Extension on “candidate” list. Extended by less than 500 nt.



Processed sliding window

Raw sliding window

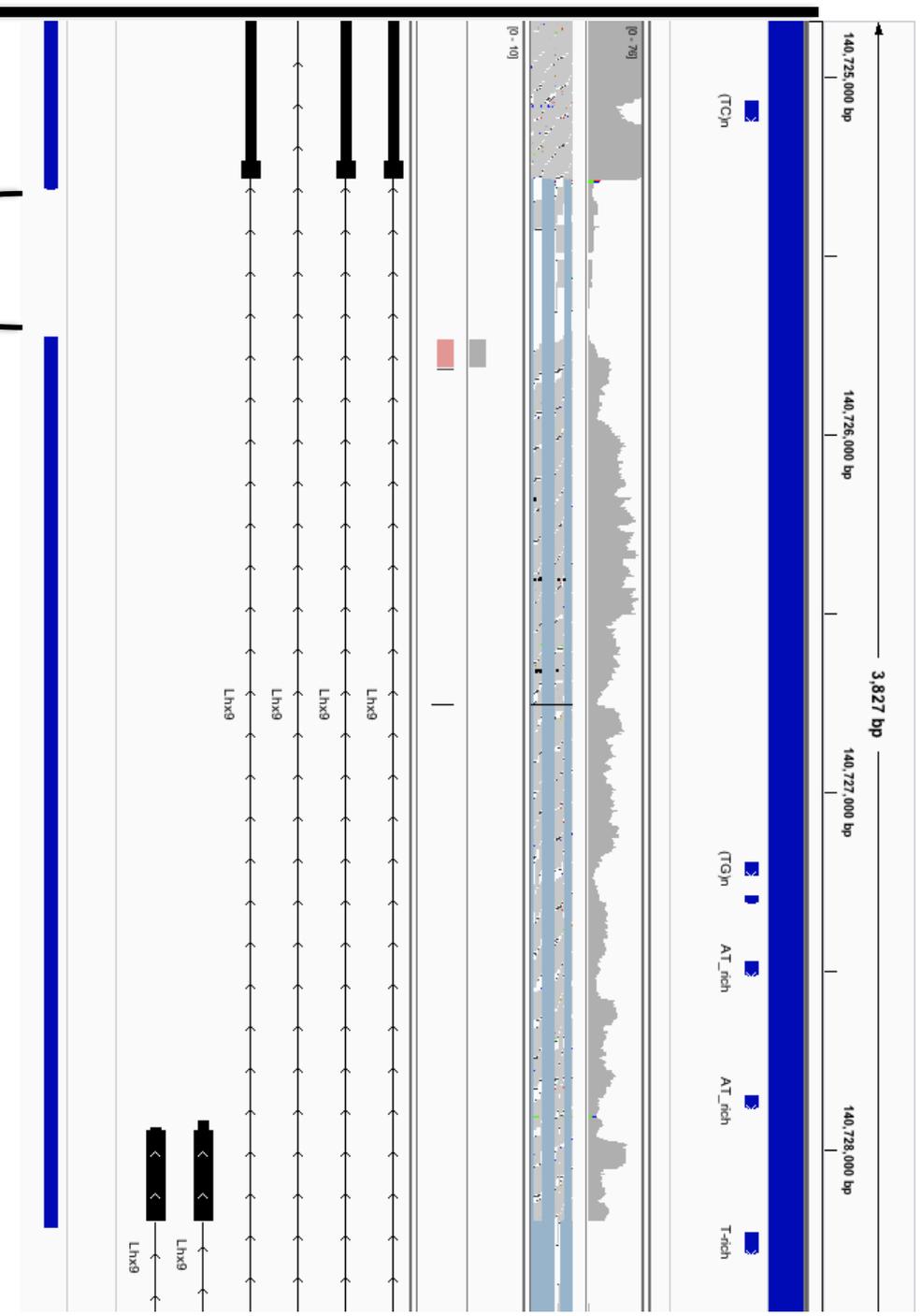
410 nt



mouse

Lhx9

Extension on “candidate” list. Less than 500 nt before next annotated exon.



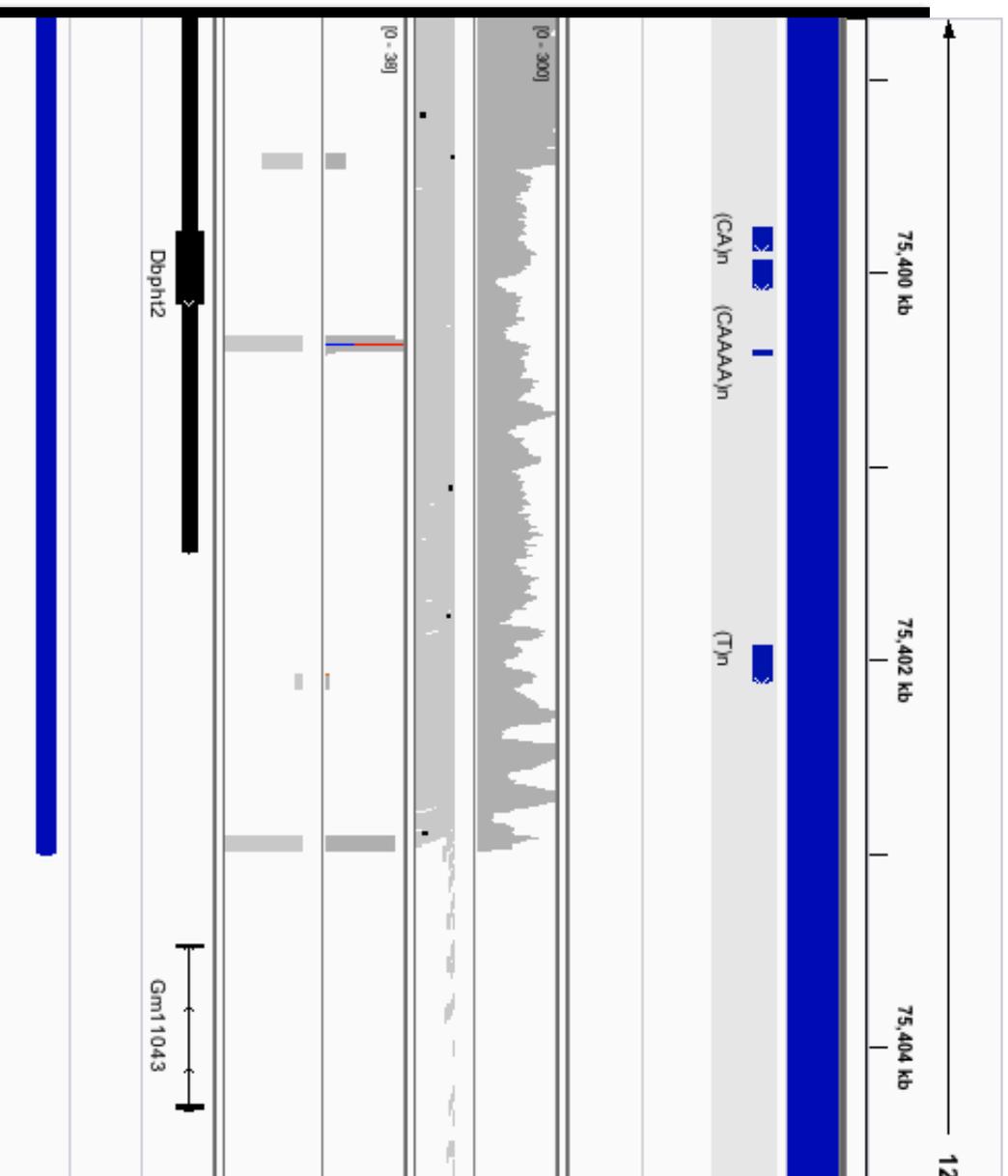
430 nt



mouse

Dbpht2

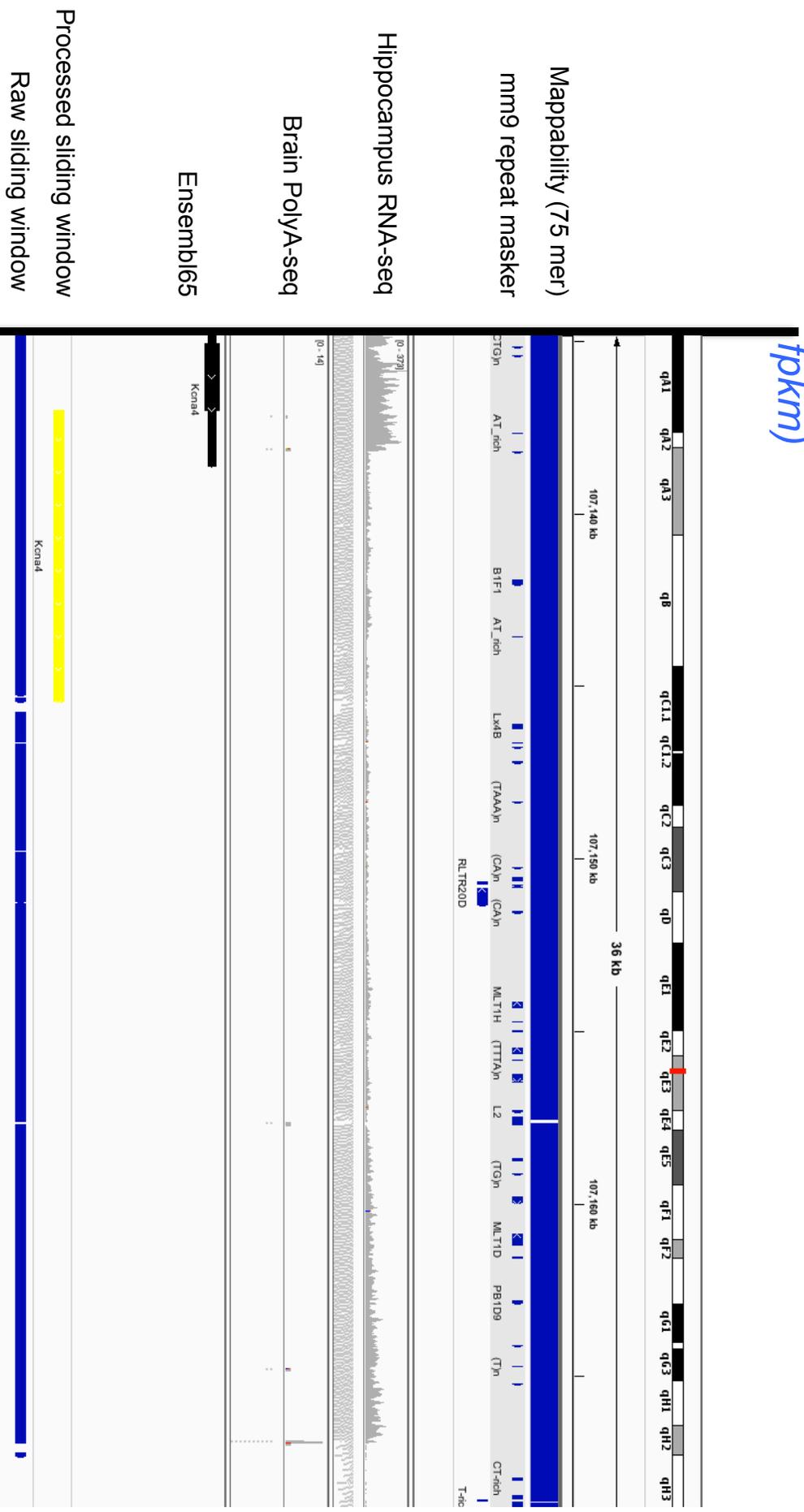
Extension on “candidate” list. Less than 500 nt before next annotated exon.



mouse

Kcna4

Low expressed extension. Extension call is truncated as adjacent windows are not bridged. Extension is likely an ~30 kb 3'UTR (2 fpkm)

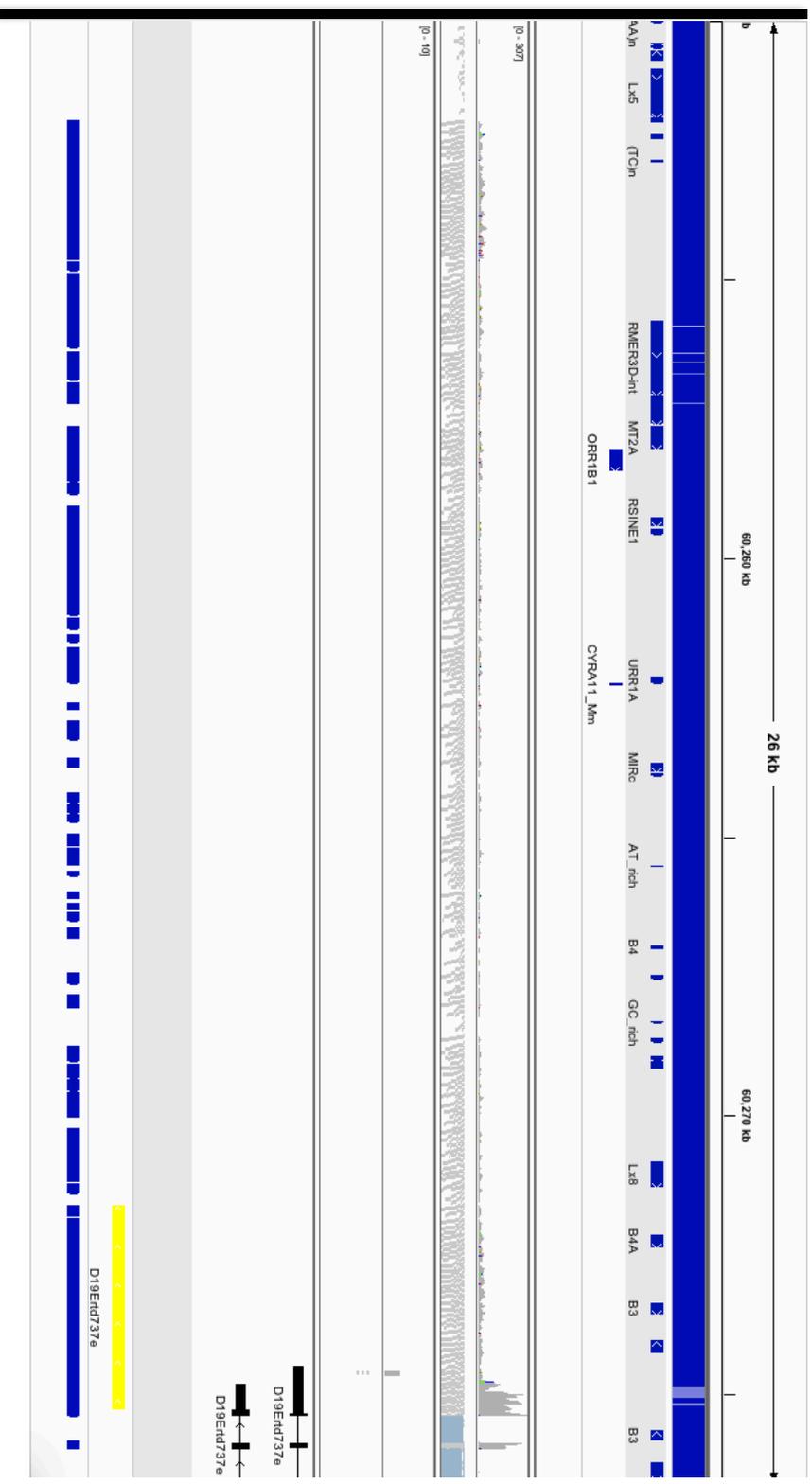


mouse

D19ertd737e

Low expressed extension. Extension call is truncated as adjacent windows are not bridged. Extension is likely a 23 kb 3'UTR (0.7 fpkm).

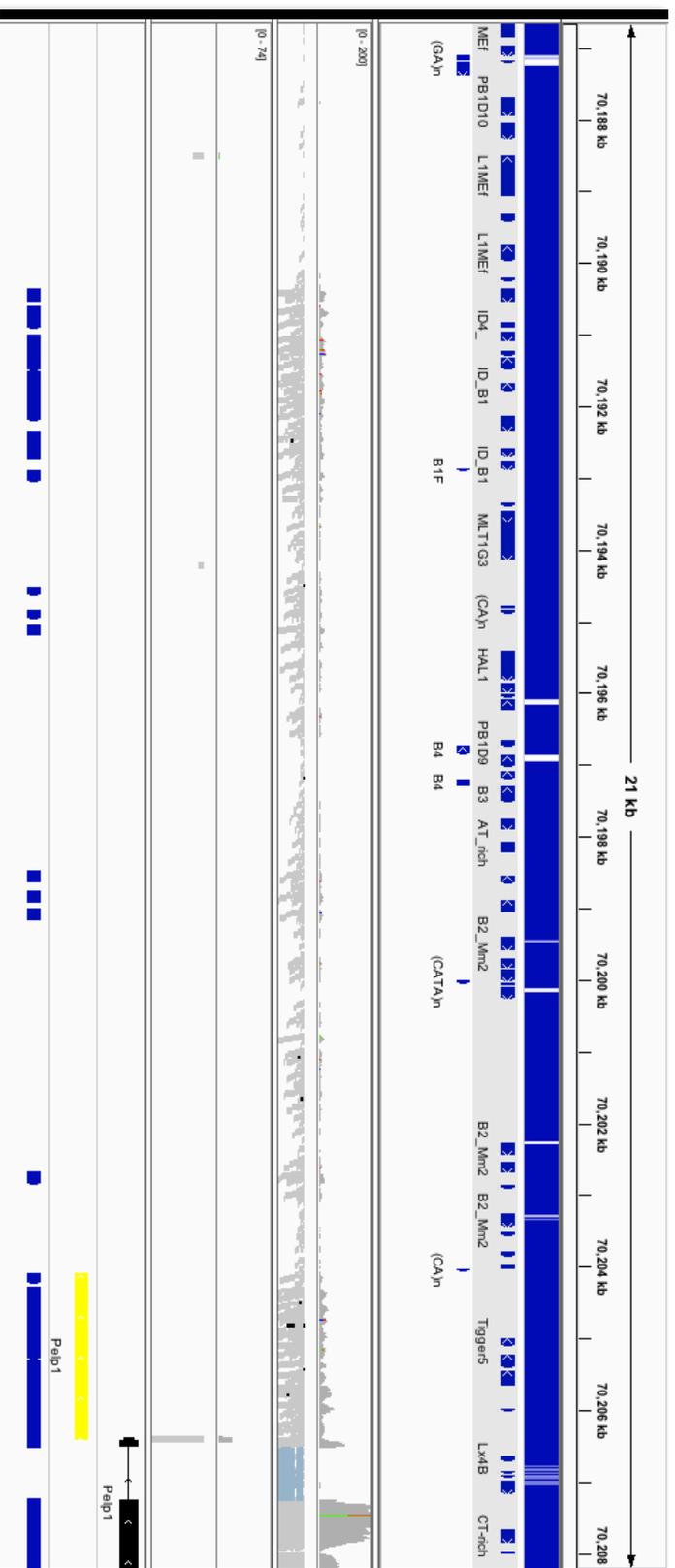
- Mappability (75 mer)
- mm9 repeat masker
- Hippocampus RNA-seq
- Brain PolyA-seq
- Ensembl65
- Processed sliding window
- Raw sliding window



mouse

Pelp1

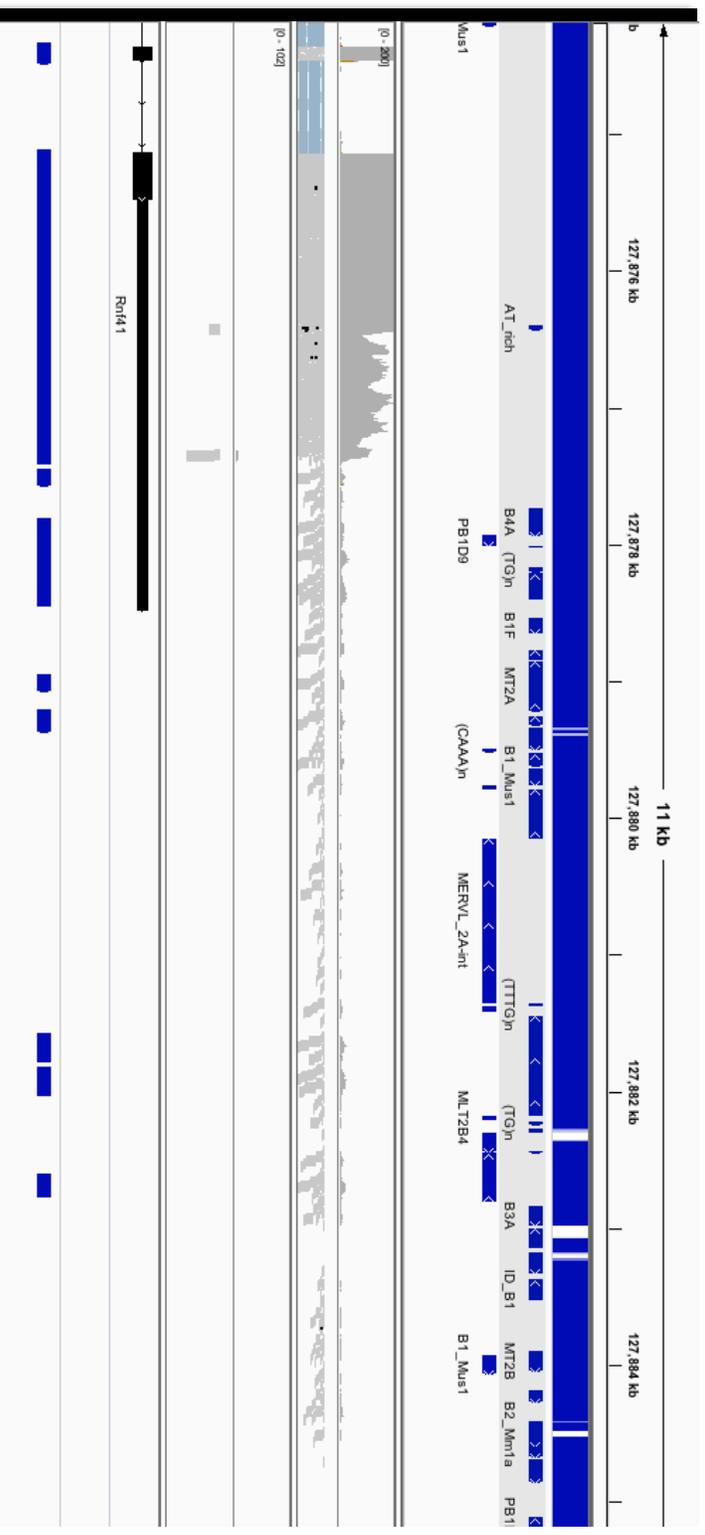
*Extension is of too low expression to be called by sliding window
(16 kb 3'UTR predicted)*



mouse

Rnf41

Extension is of too low expression to be called by sliding window



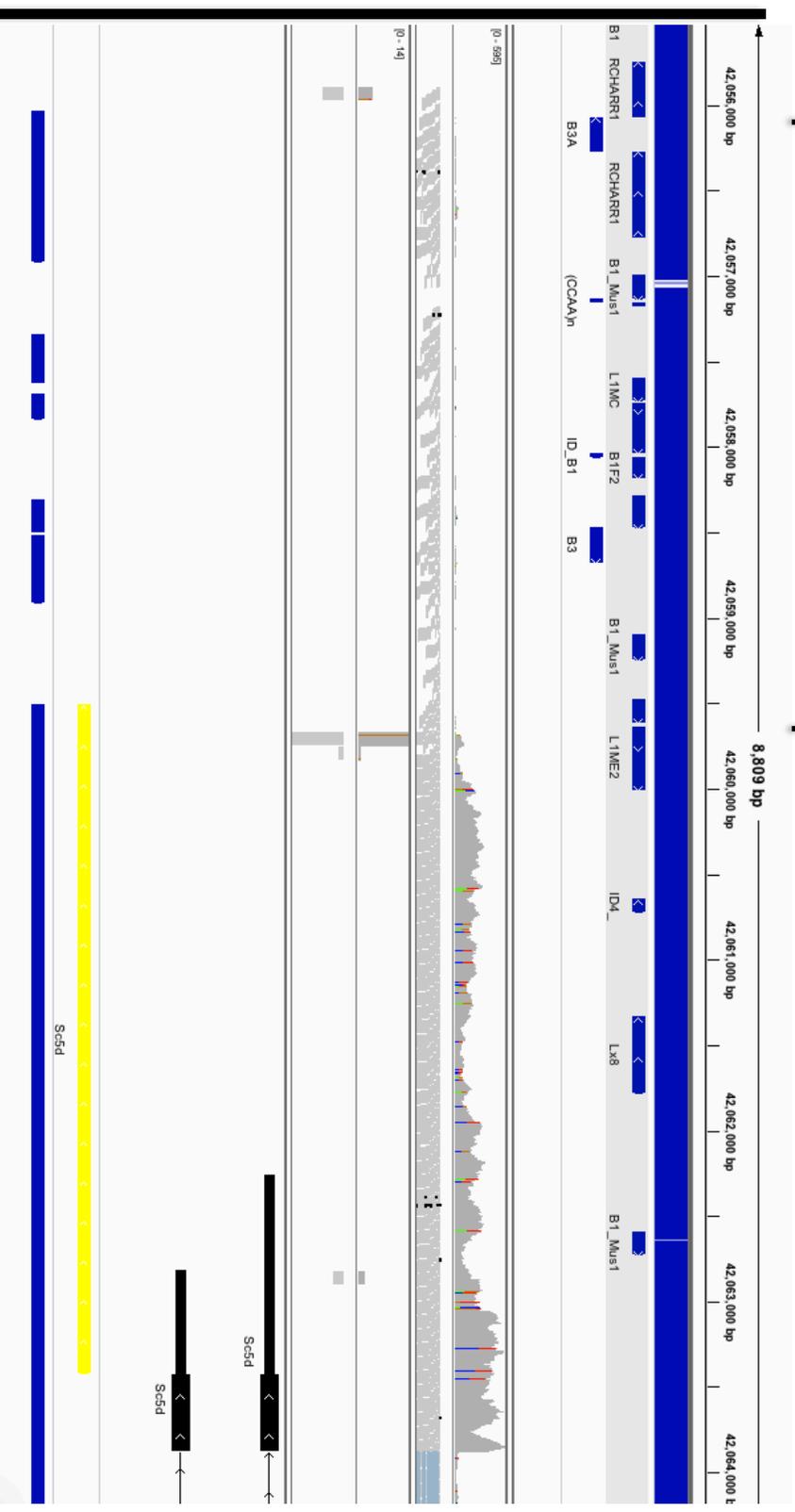
- Mappability (75 mer)
- mm9 repeat masker
- Hippocampus RNA-seq
- Brain PolyA-seq
- Ensembl65
- Processed sliding window
- Raw sliding window



mouse

Sc5d

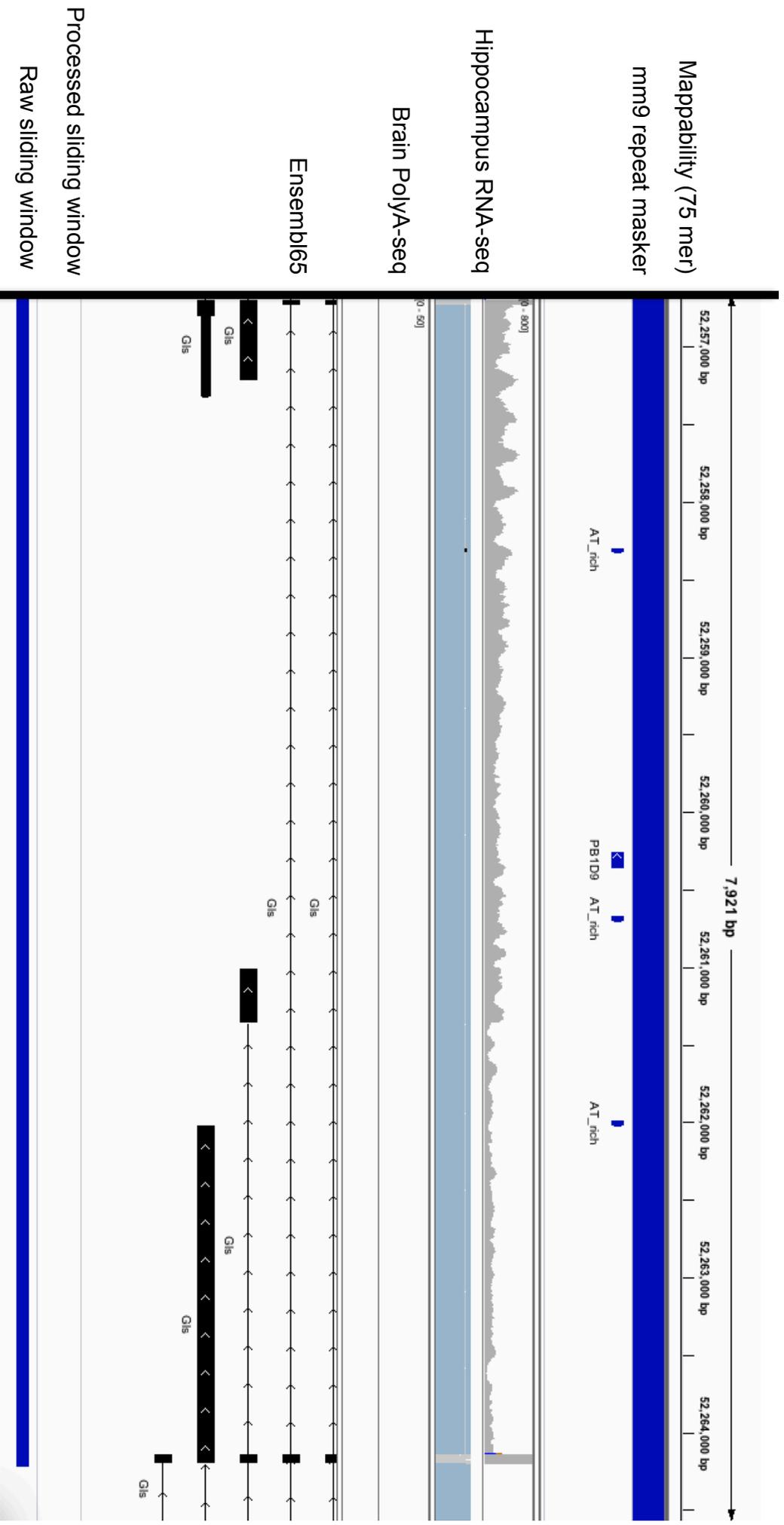
Secondary Extension is too low expressed to be detected by sliding window (0.61 fpkm)



mouse

GIs

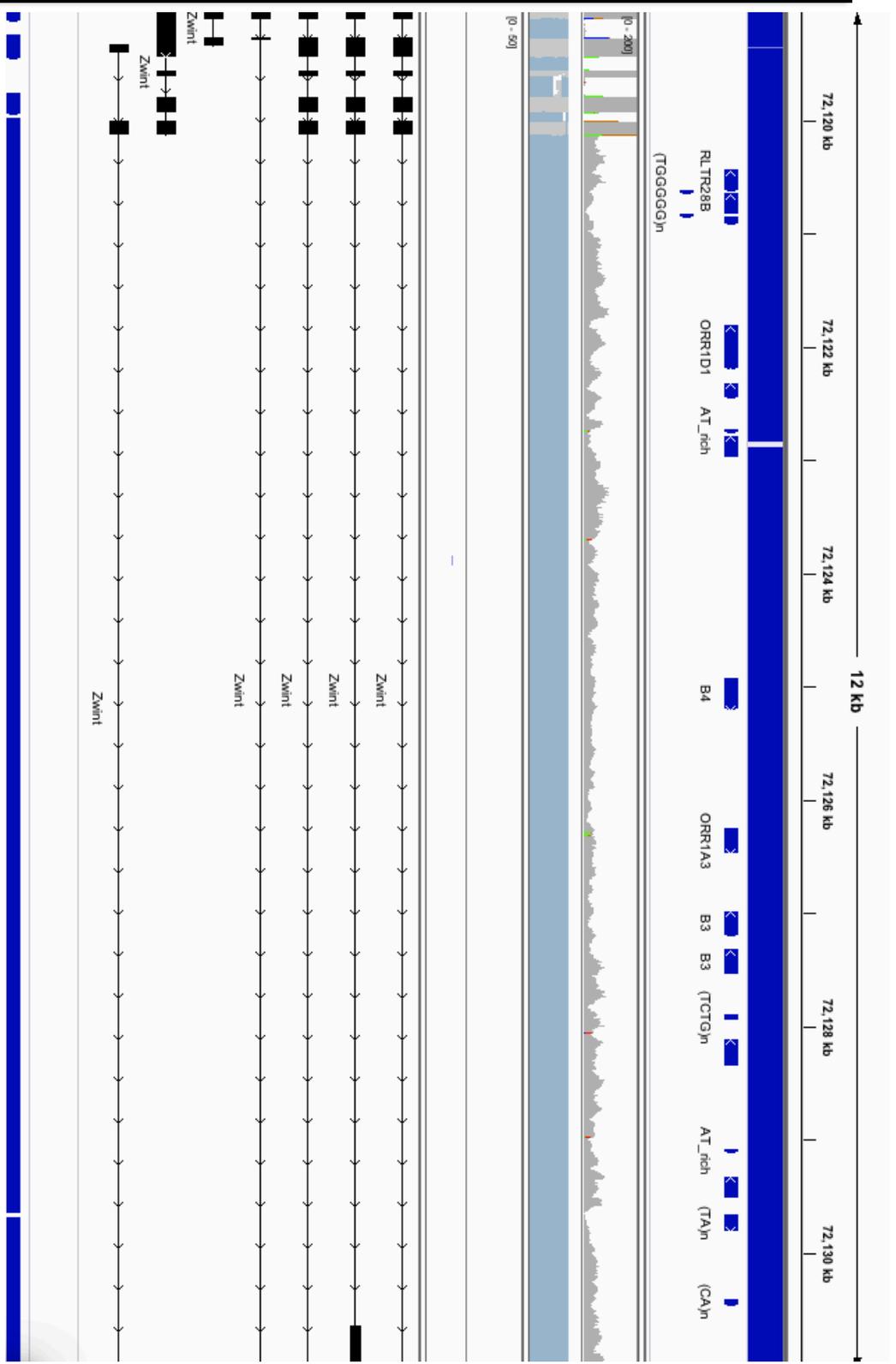
Extension calls cannot overlap other annotated exons. Region might represent a retained intron.



mouse

Zwint

Extension calls cannot overlap downstream exons. Avoids calling potential retained intron as a 3'UTR extension.



Mappability (75 mer)
mm9 repeat masker
Hippocampus RNA-seq
Brain PolyA-seq

Ensembl65

Processed sliding window

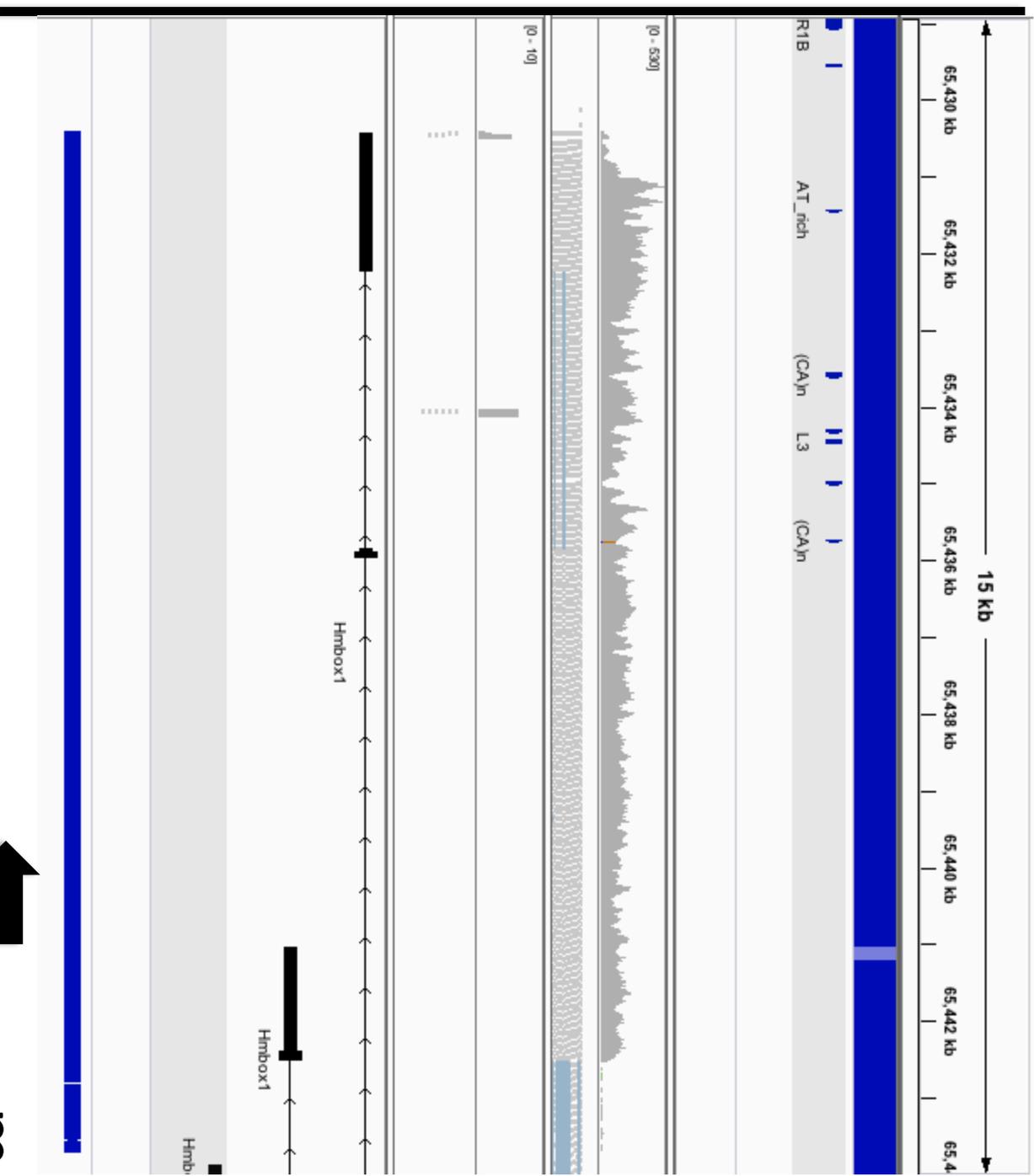
Raw sliding window



mouse

Hmbox1

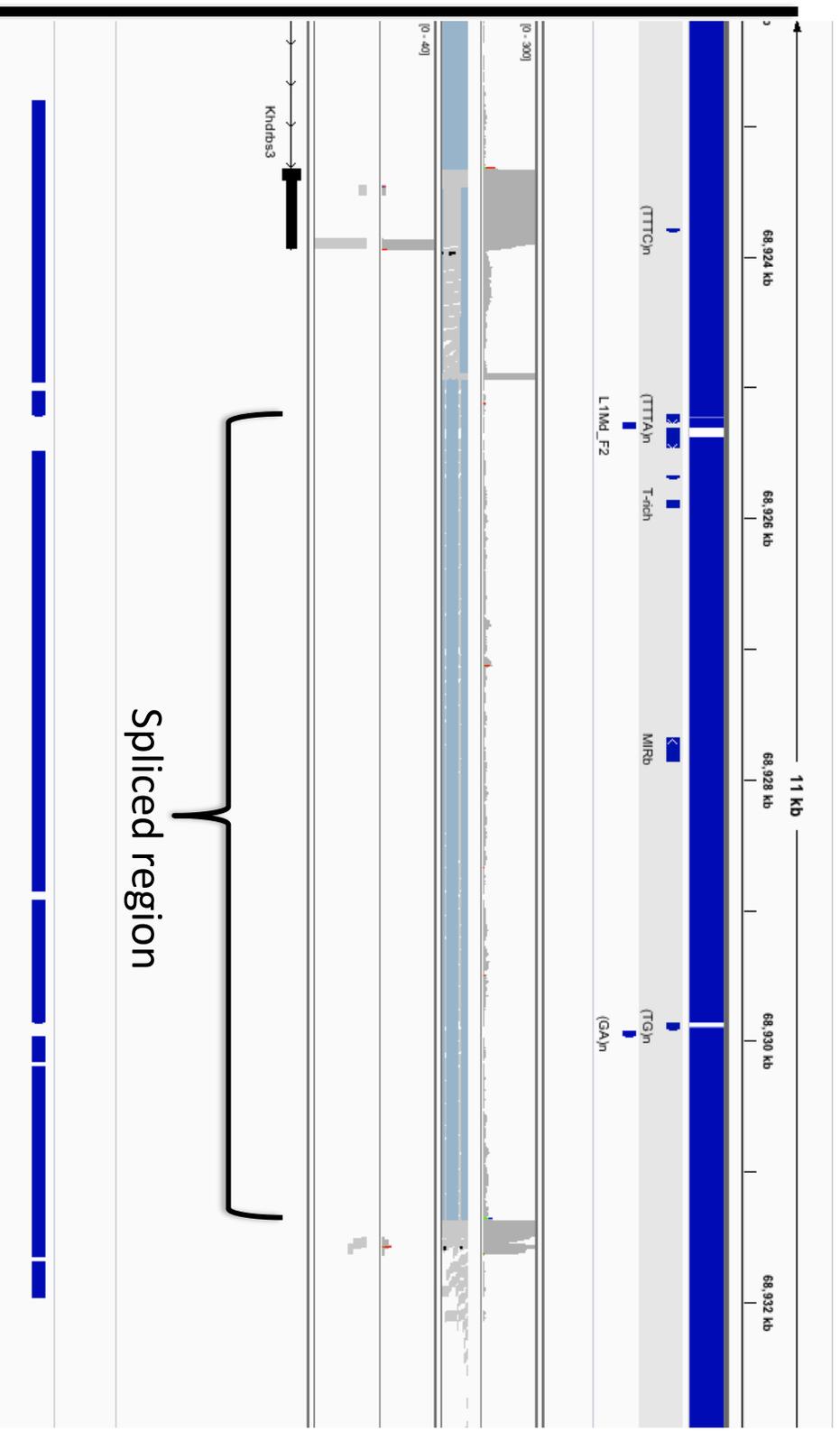
Extension is not called because it overlaps a downstream annotated exon.
NORTHERN CONFIRMED EXTENSION



mouse

Khndrbs3

Candidate eliminated because extension region harbors an extensively spliced region. Distal end could represent alternative last exon as opposed to 3'UTR extension.



Processed sliding window

Raw sliding window

Hippocampus RNA-seq

Brain PolyA-seq

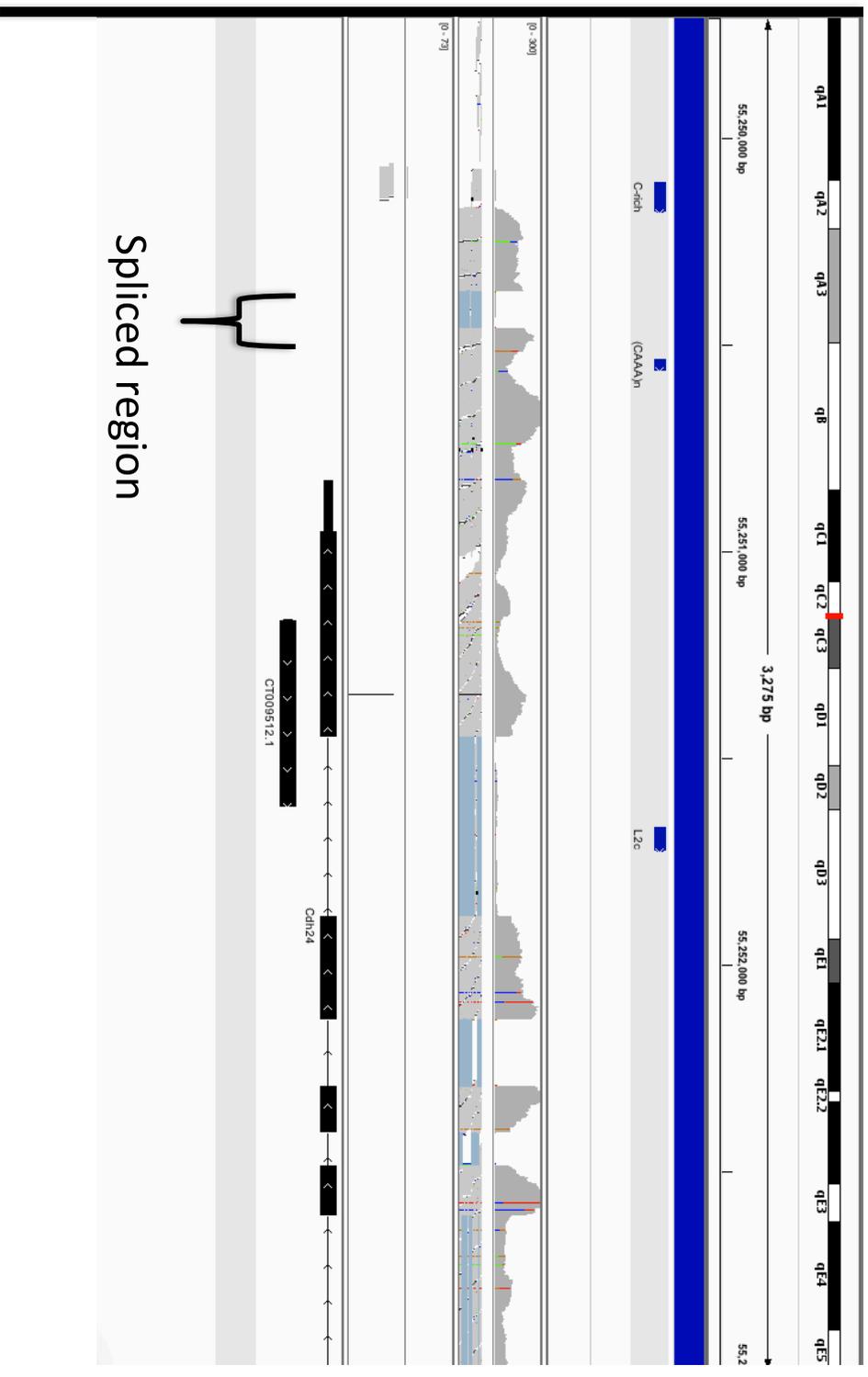
Ensembl65

Spliced region

mouse

Cdh24

Candidate eliminated because extension region harbors an extensively spliced region



Mappability (75 mer)
mm9 repeat masker

Hippocampus RNA-seq

Brain PolyA-seq

Ensembl65

Processed sliding window

Raw sliding window

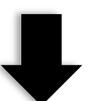
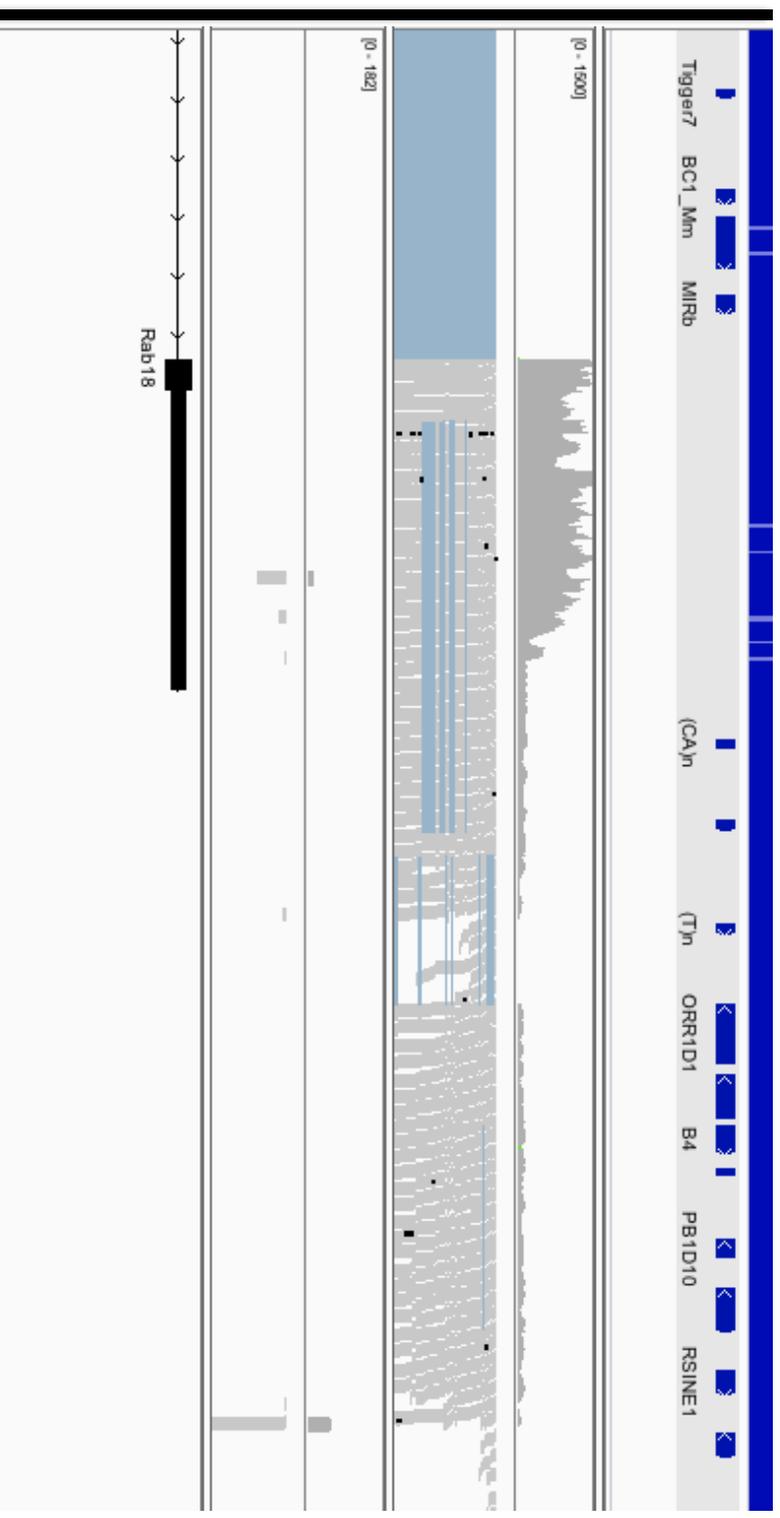
Spliced region



mouse

Rab18

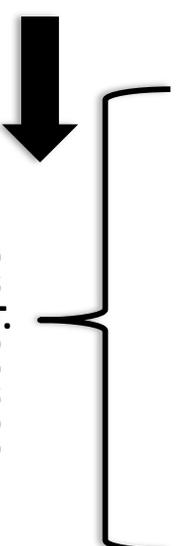
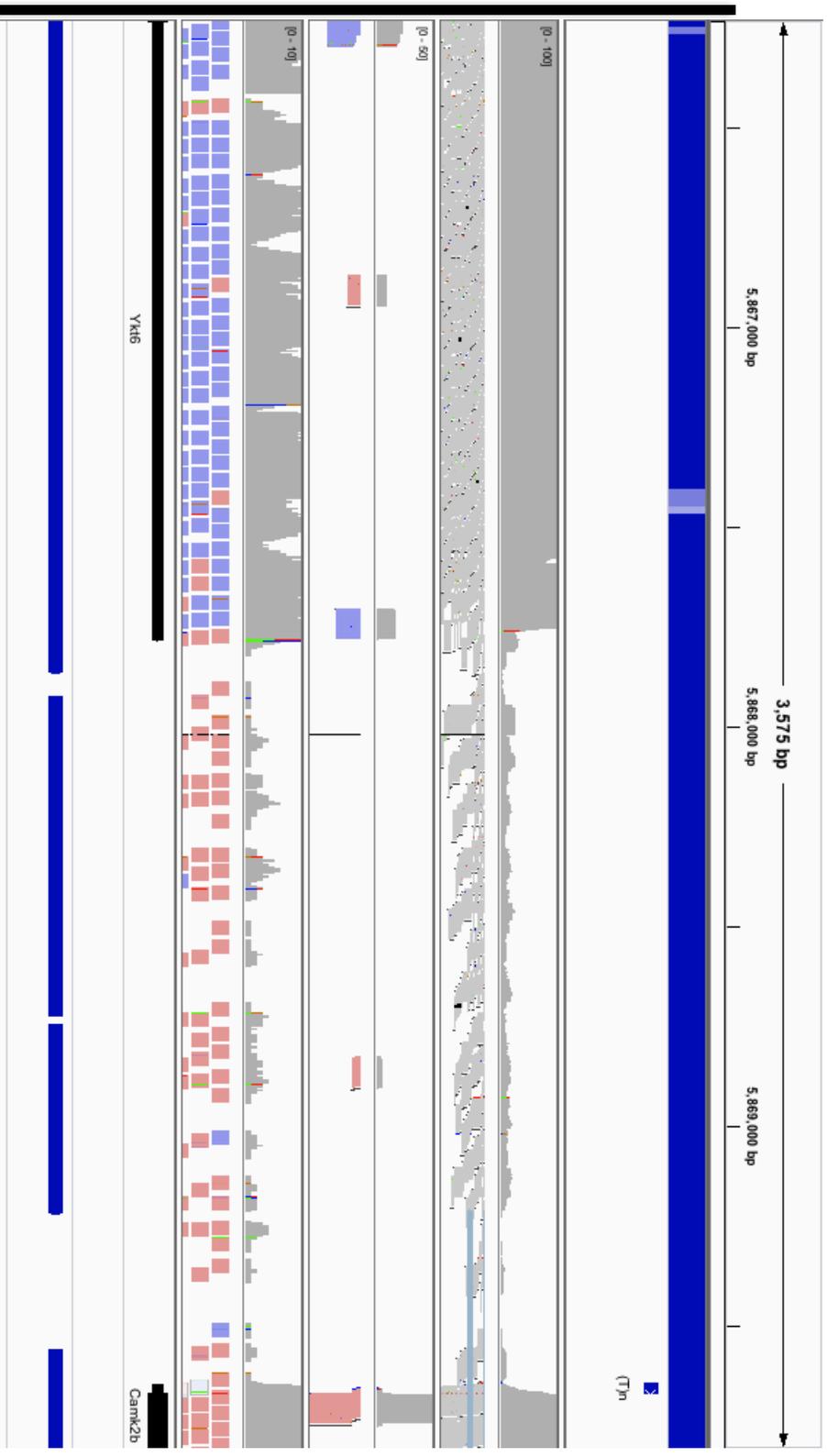
Candidate eliminated because extension region harbors an extensively spliced region



mouse

Ykt6

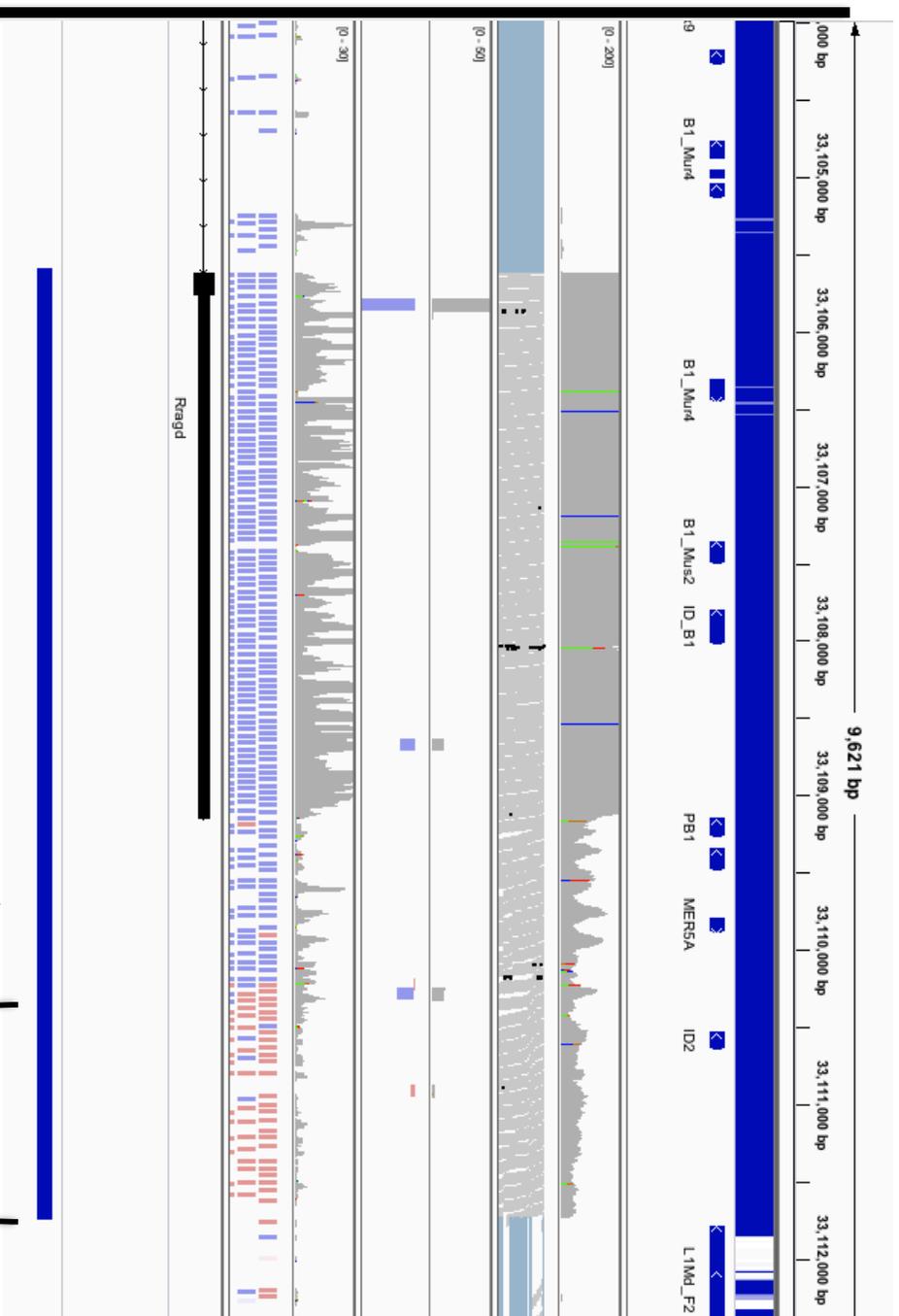
> 20% of reads from pooled stranded RNA-seq data in extension are antisense. Extension not called.



mouse

Rragd

> 20% of reads from pooled stranded RNA-seq data in extension are antisense. Extension not called



antisense
mouse