ENCODE long-read RNA-seq paper references processing document

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FANTOM CAGE

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FANTOM CAGE peaks for human were obtained from https://fantom.gsc.riken.jp/5/datafiles/latest/extra/CAGE_peaks/hg19.cage_peak_phase1and2combined_coord.bed.gz.

Preprocessing

- Lifted over from hg19 to hg38
- Filtered out regions that were duplicated during liftover
- Filtered out regions that were mapped to a different chromosome than originally during liftover
- Filtered out regions that went from n bp long to >= n+10 bp long during liftover
- Filtered out regions that are <= 1 bp long

GTEx transcriptome

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Preprocessing

Novel genes were filtered out

PolyA Atlases

Download

The PolyA site atlases were obtained from the following links

- Human: https://www.polyasite.unibas.ch/download/atlas/2.0/GRCh38.96/atlas.clusters.2.0.GRCh 38.96.bed.qz
- Mouse: https://www.polyasite.unibas.ch/download/atlas/2.0/GRCm38.96/atlas.clusters.2.0.GRC m38.96.bed.gz

Preprocessing

For both species:

- Regions on noncanonical chromosomes (those beginning with 'GL' or 'KI') were filtered out
- The 'chr' prefix was added to the chromosome of each region