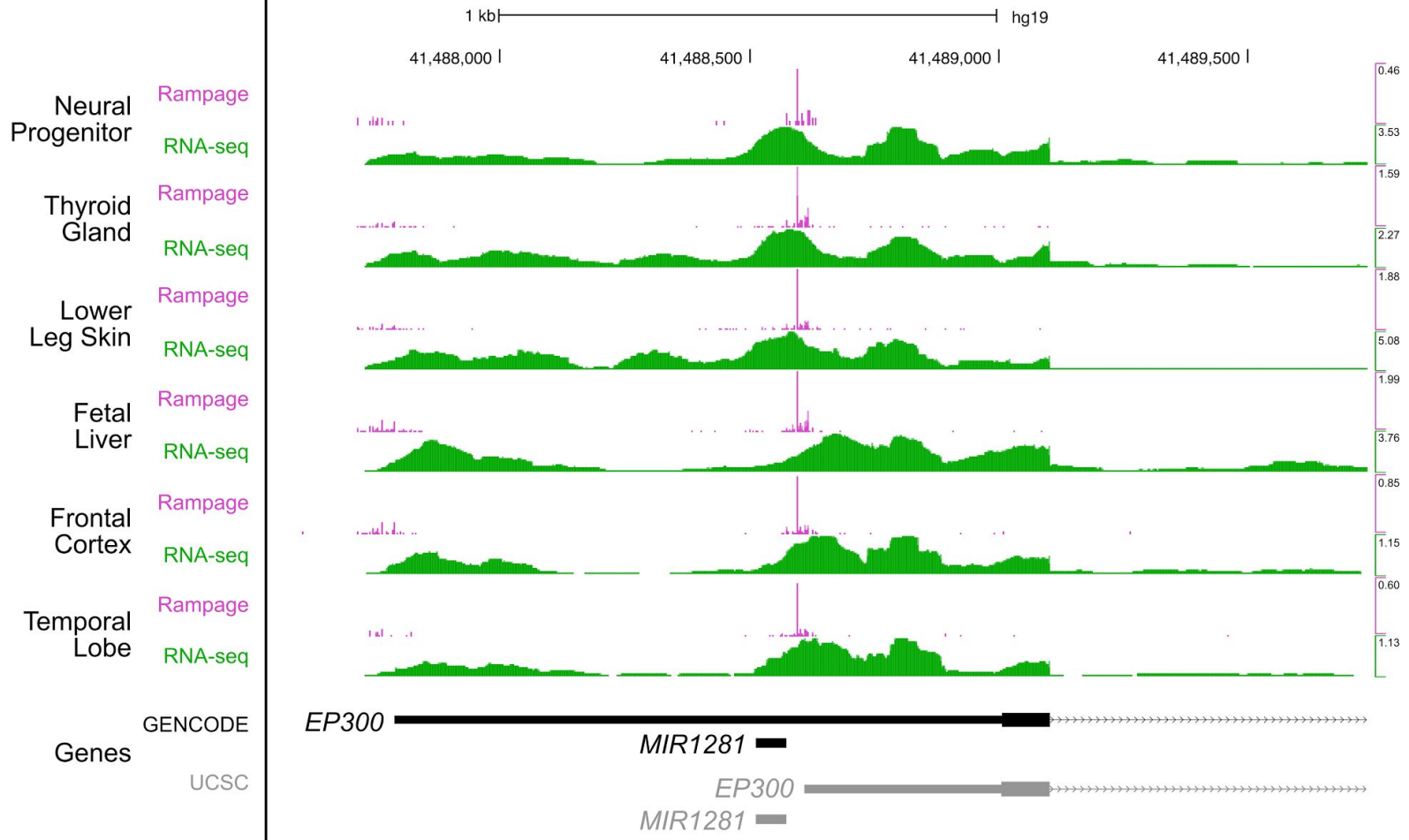
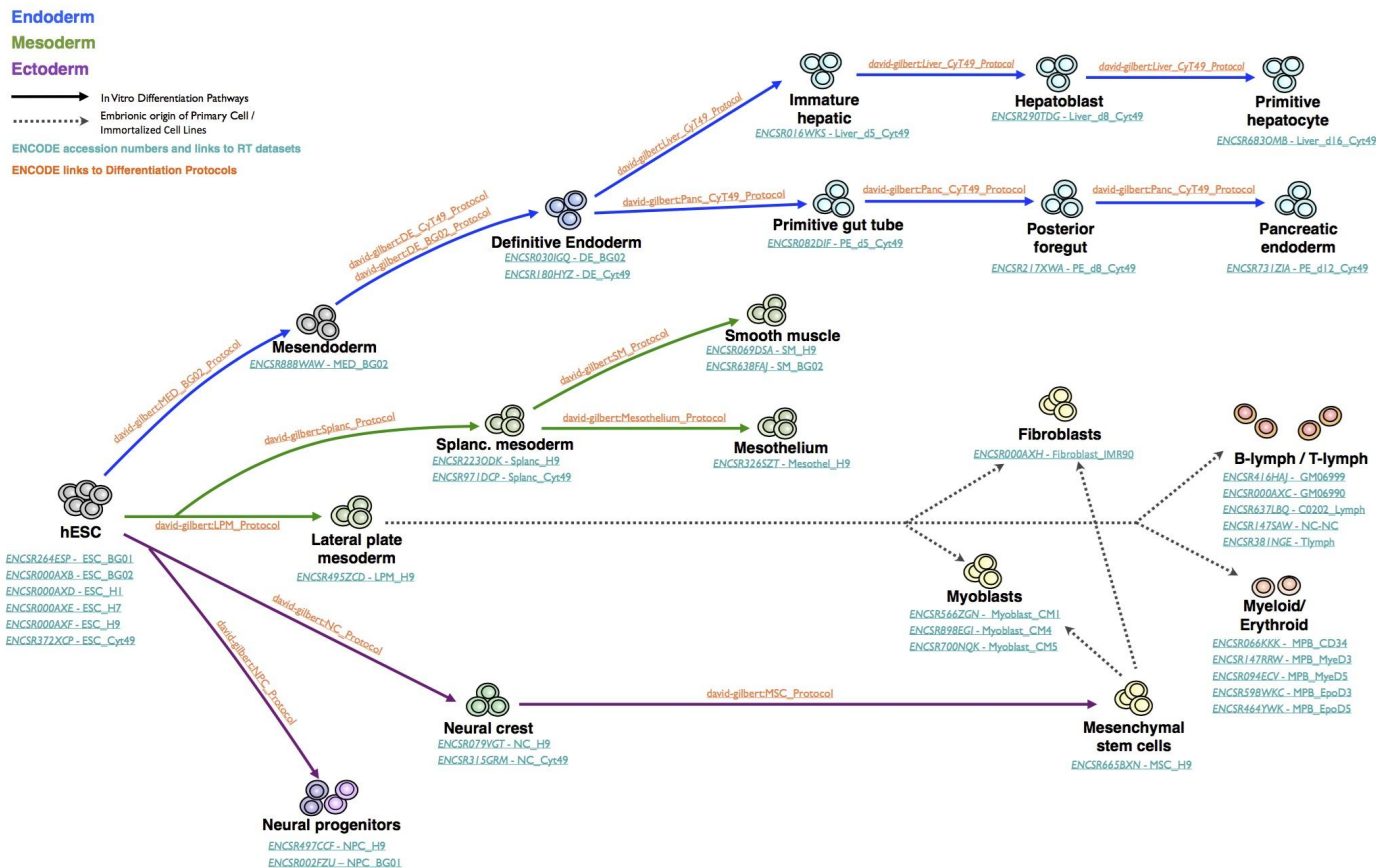
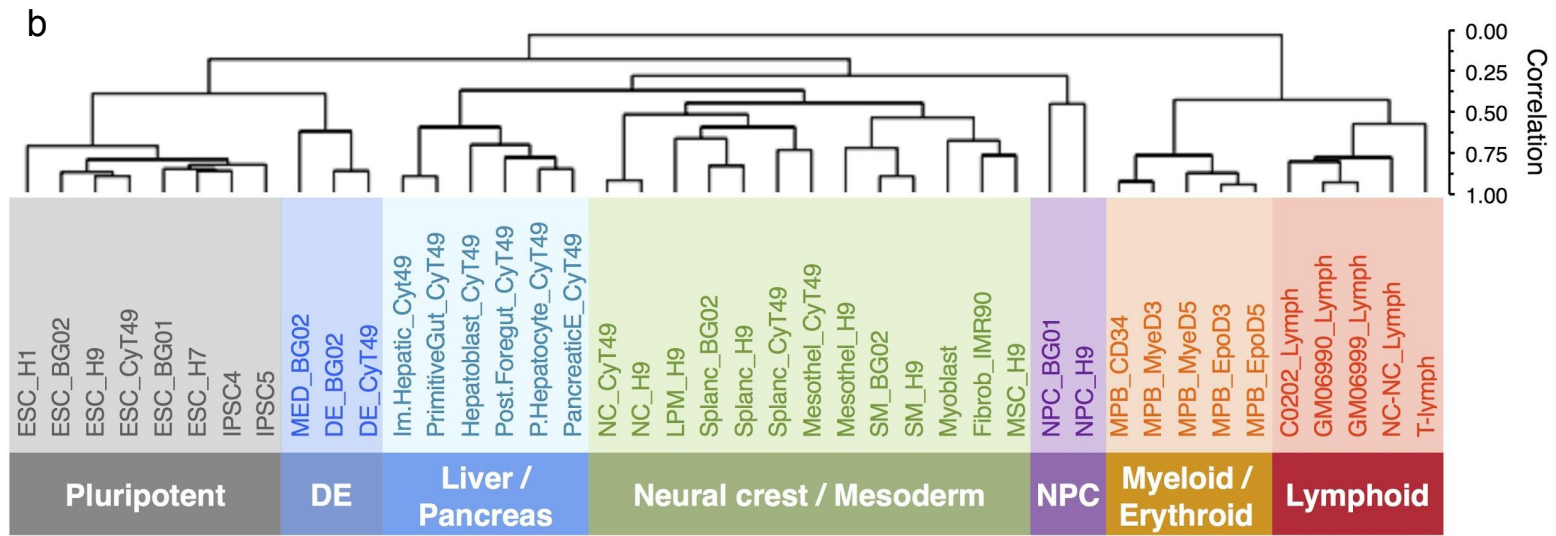
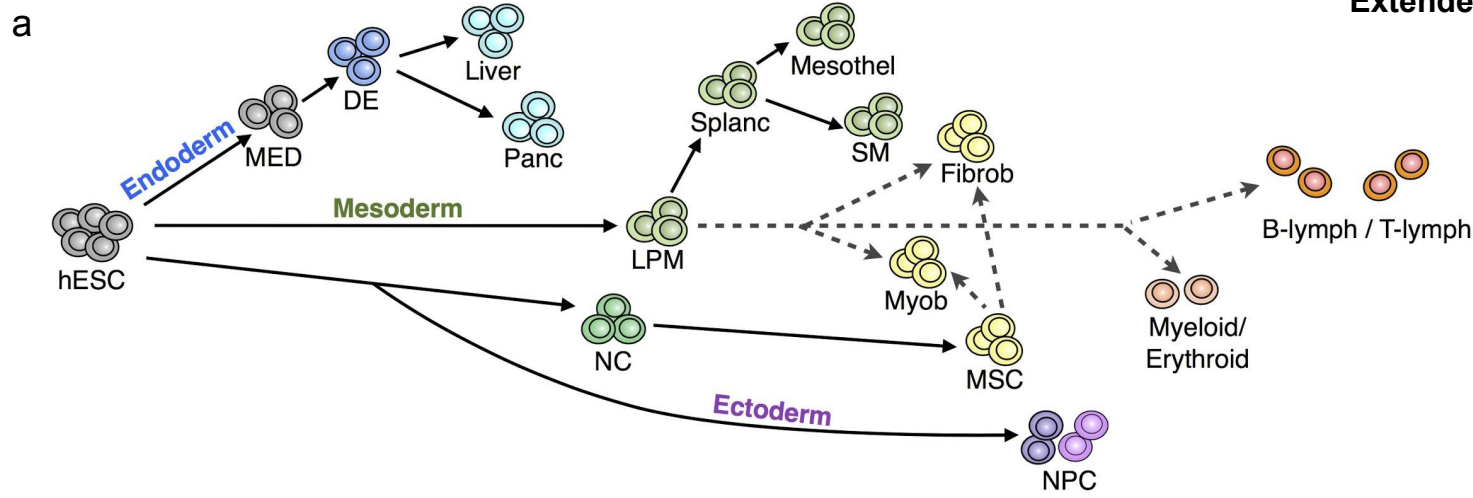


# Extended Data Figure 1



# Replication Timing (RT) datasets of distinct human cell types Extended Data Figure 2





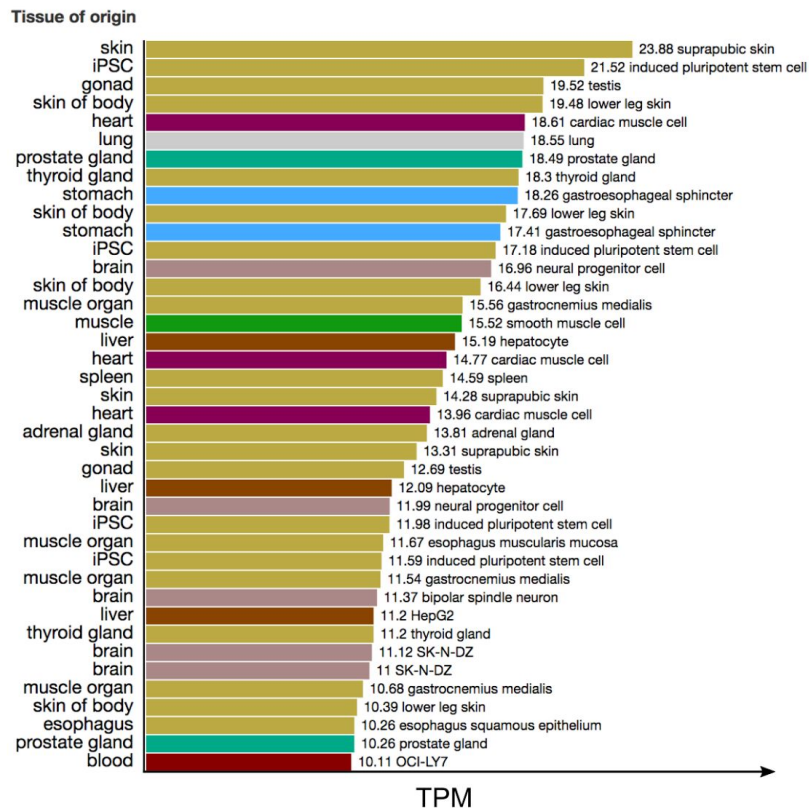
a

## Gene Expression - RNA-seq

*EP300*

ENSG00000100393.9 - chr22:41,487,790-41,576,081

Top 40 Experiments



b

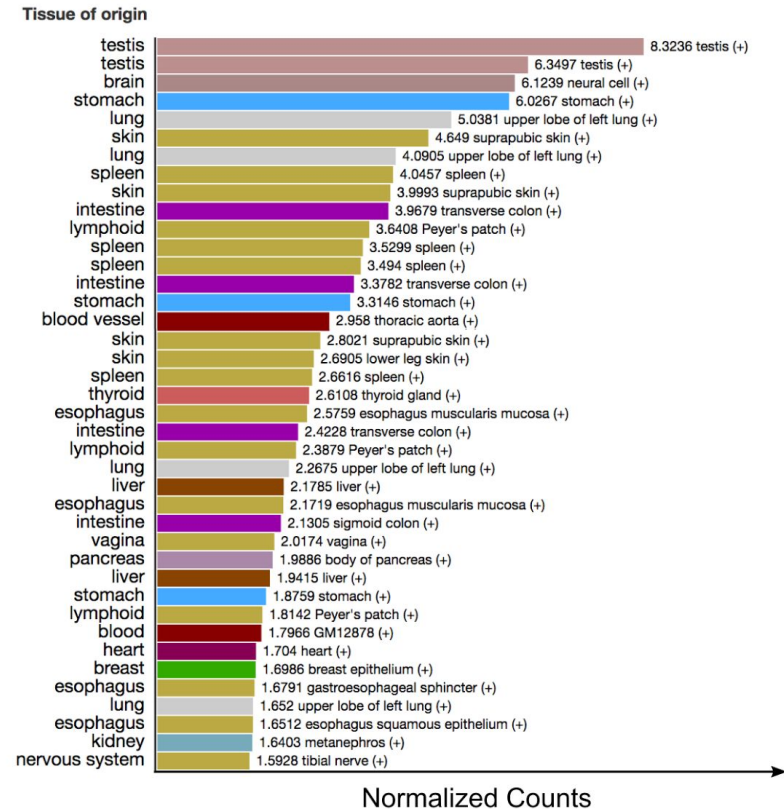
Extended Data Figure 4

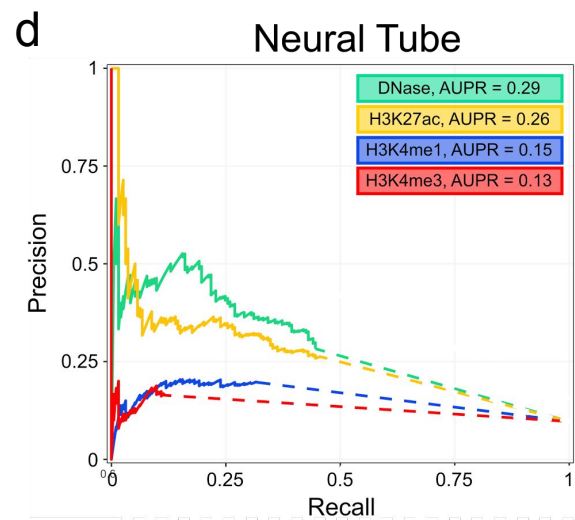
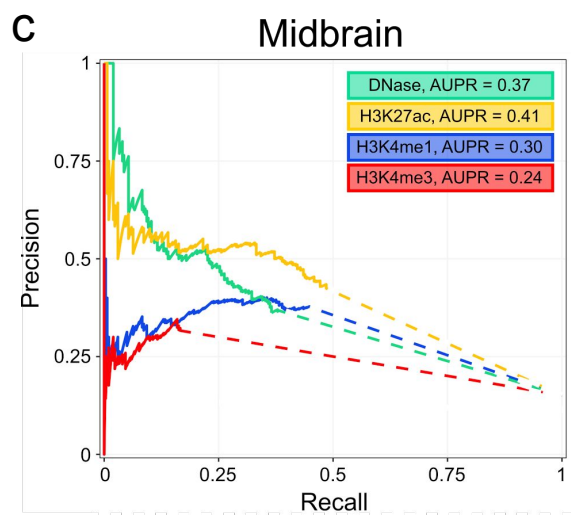
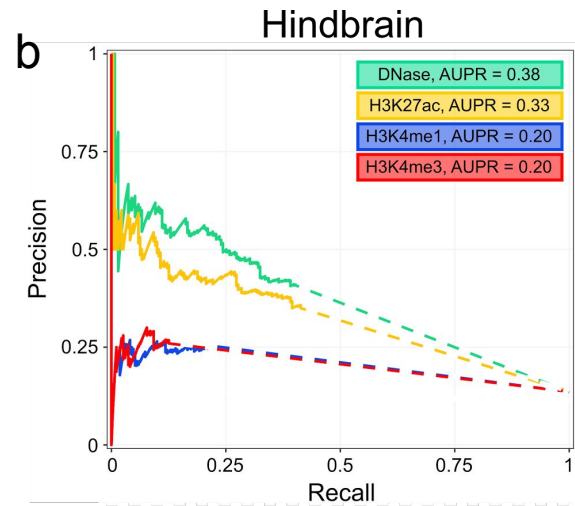
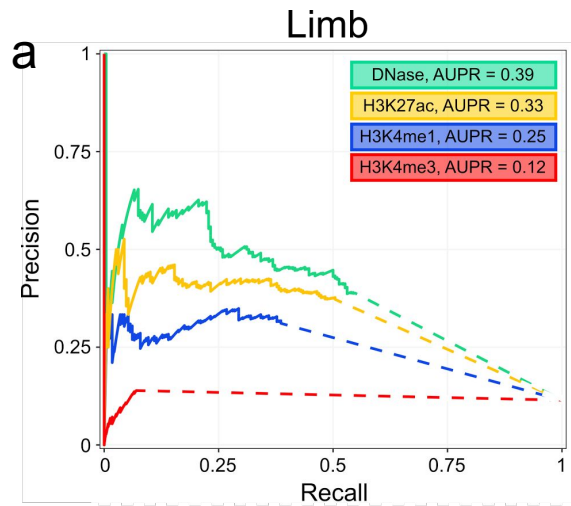
## Transcription Quantification - RAMPAGE

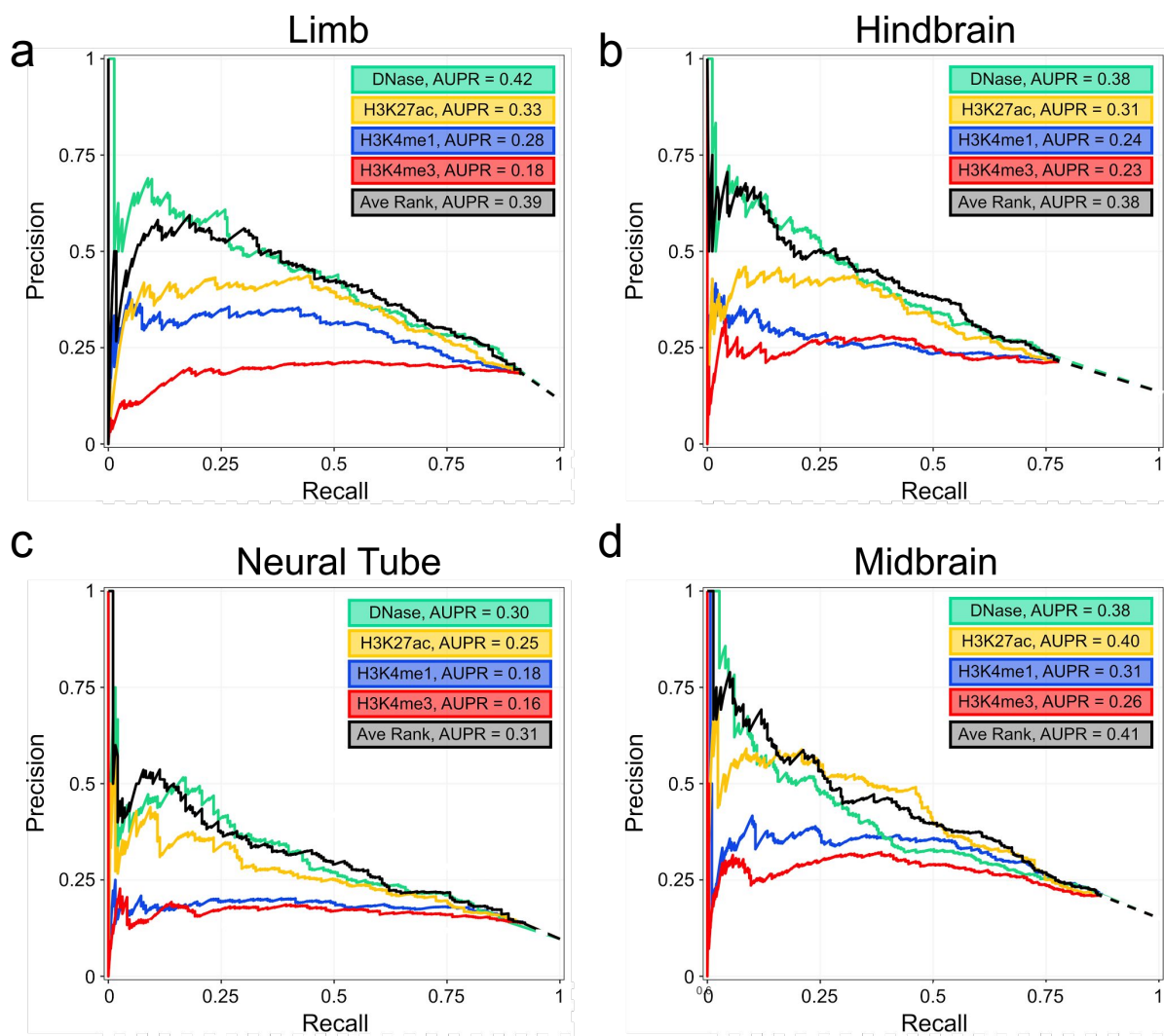
*EP300*

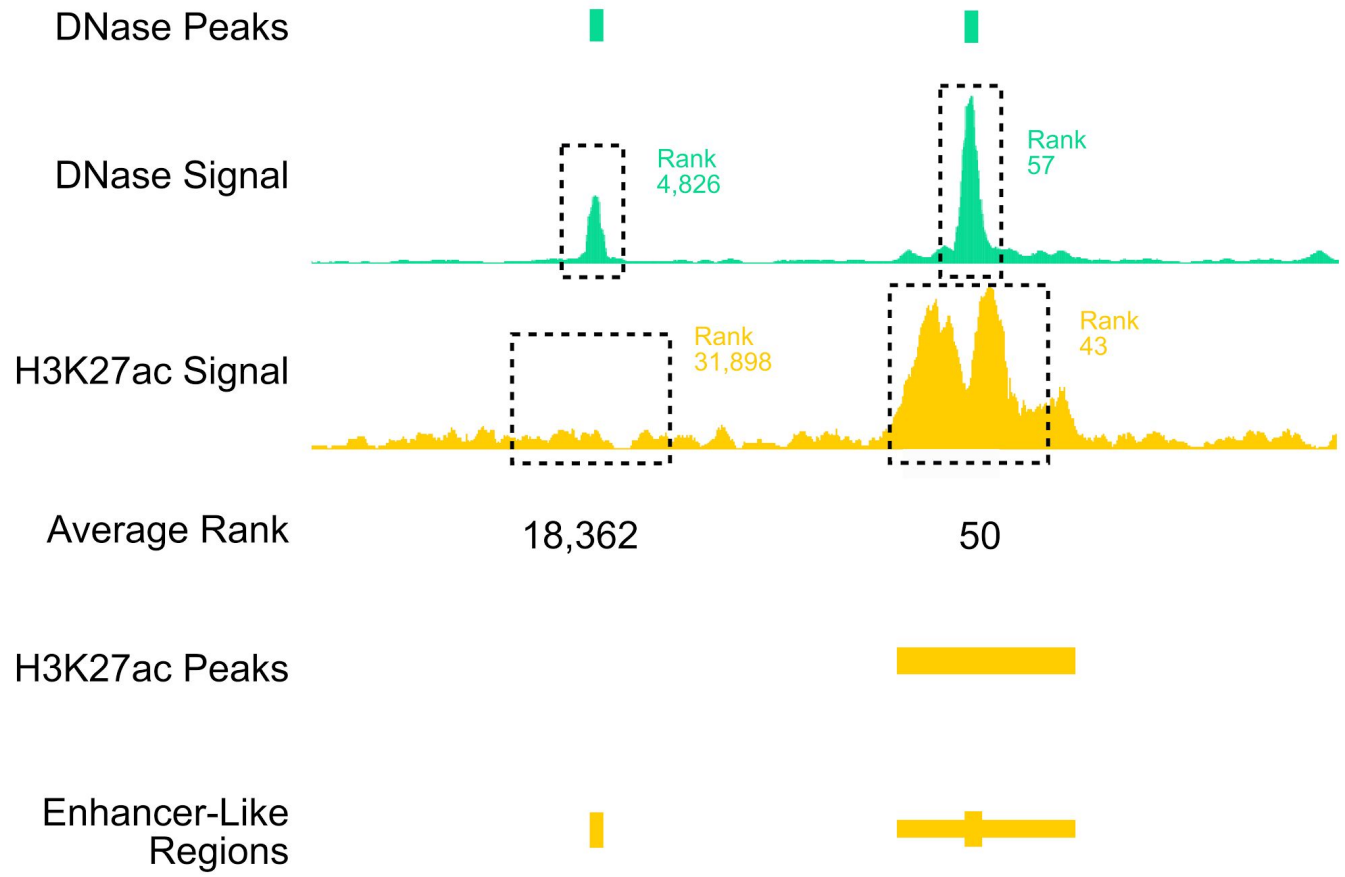
ENST00000263253.7 - chr22:41,487,790

Top 40 Experiments

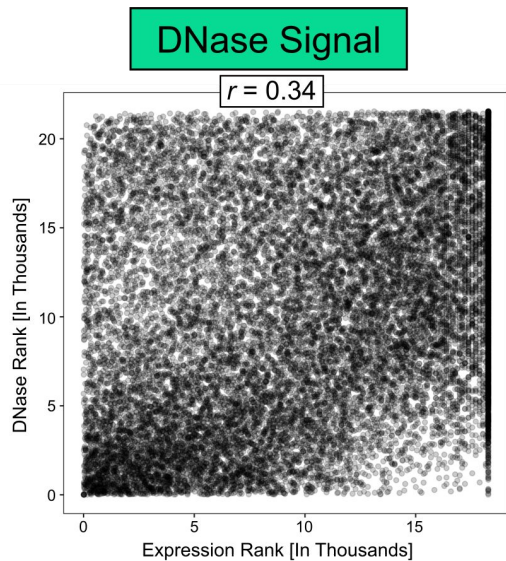




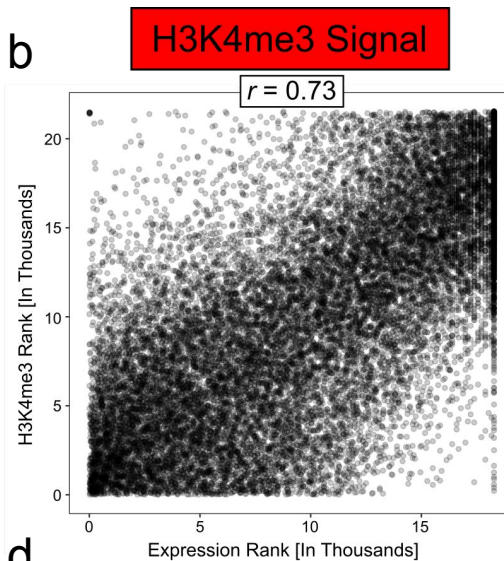




a

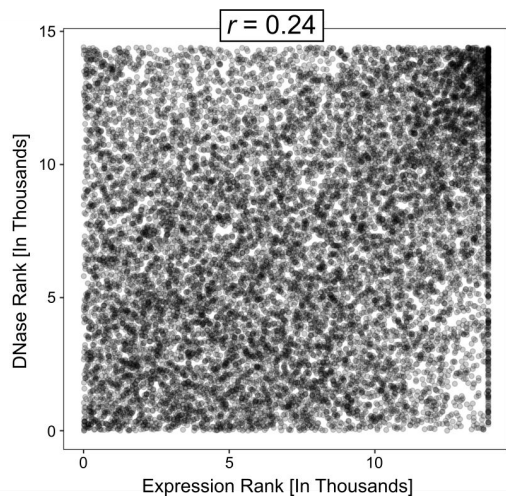


b

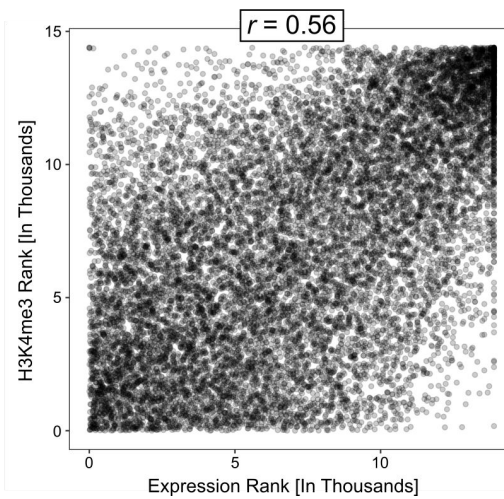


DHSS

c

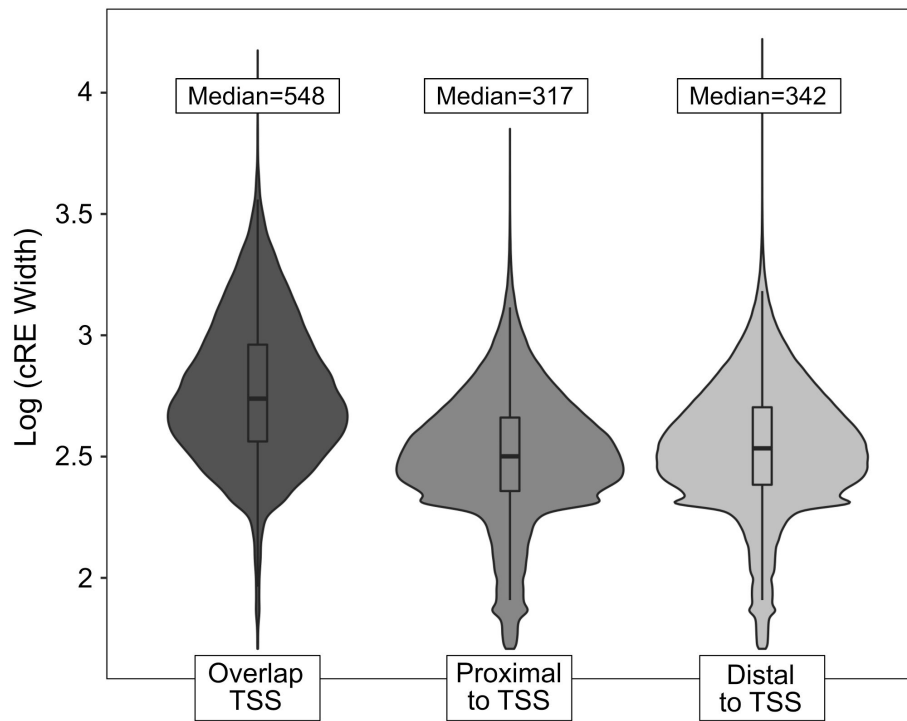


d

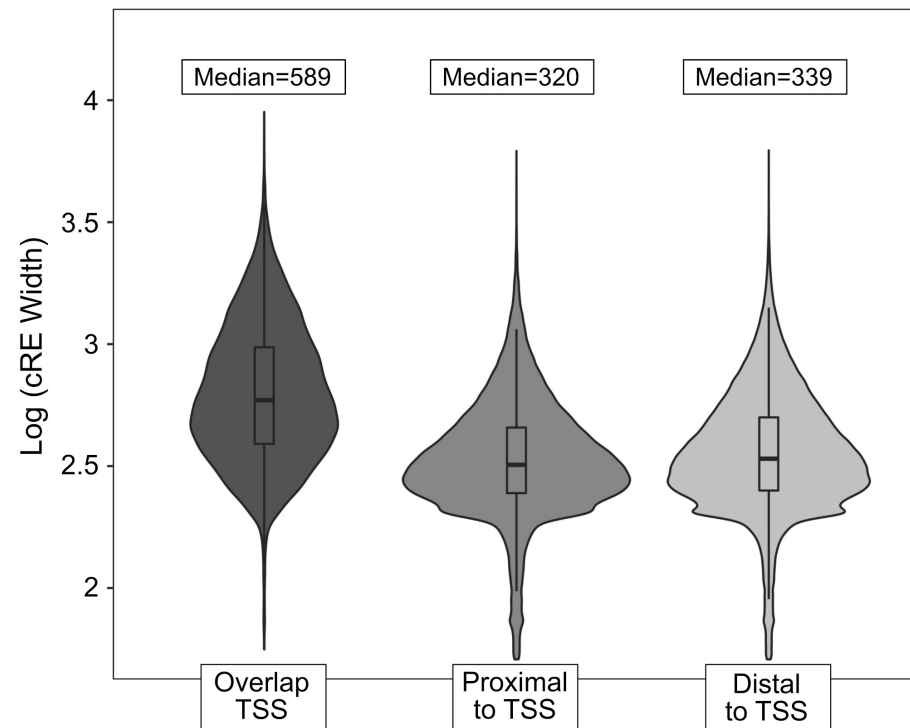


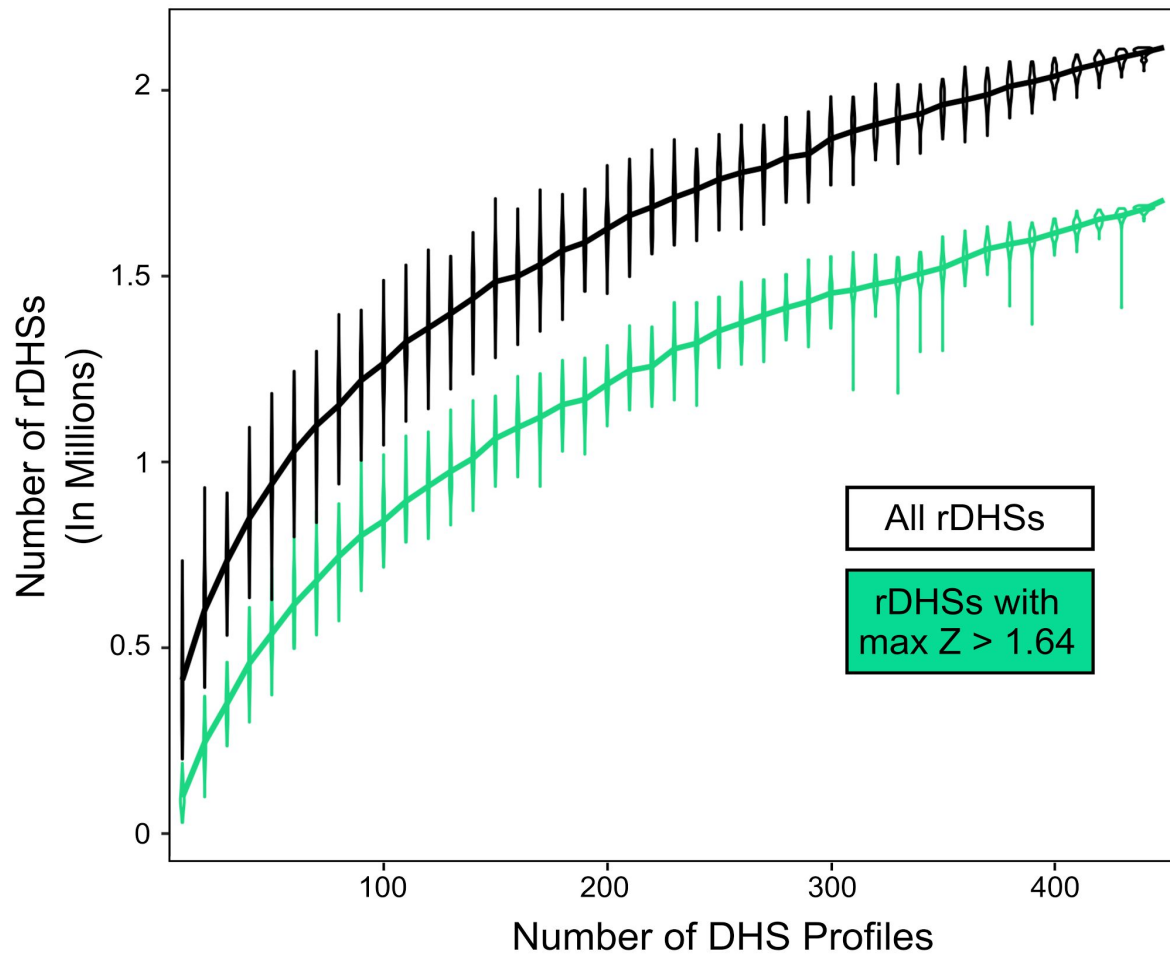
H3K4me3 Peaks



**a** Human (hg19)**b**

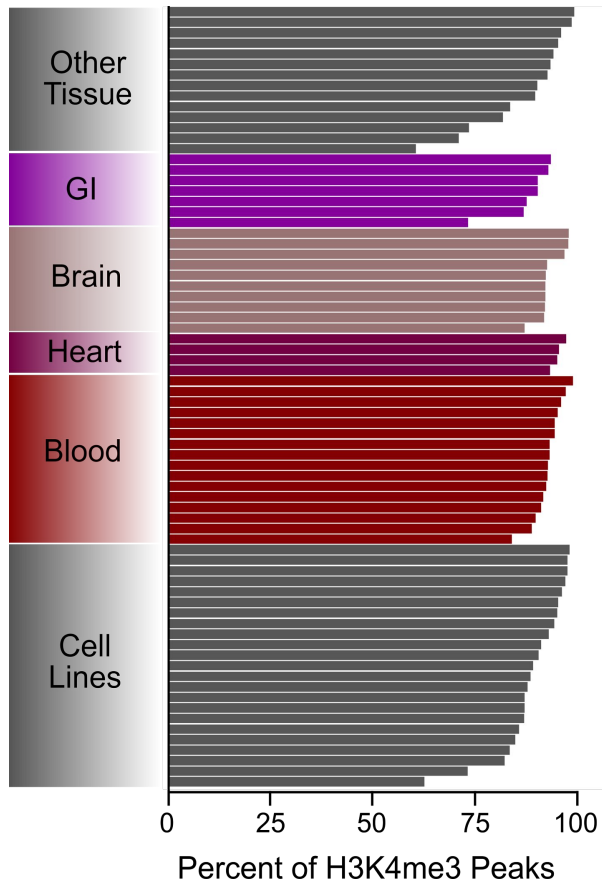
Mouse (mm10)





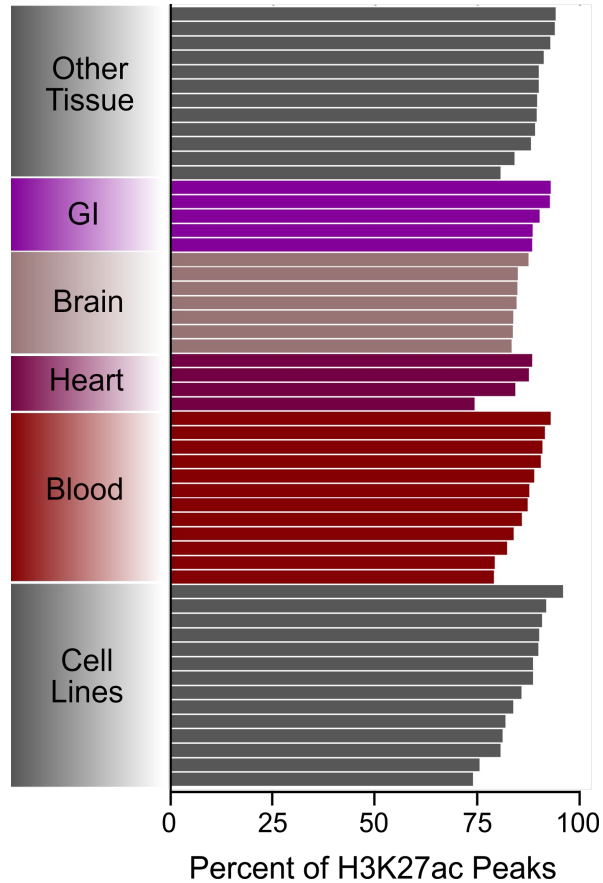
a

hg19 H3K4me3



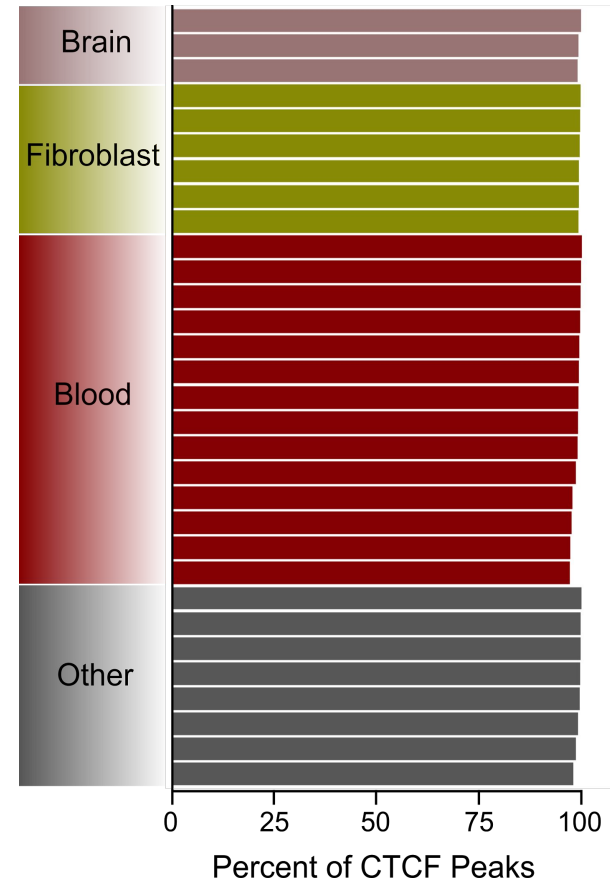
b

hg19 H3K27ac



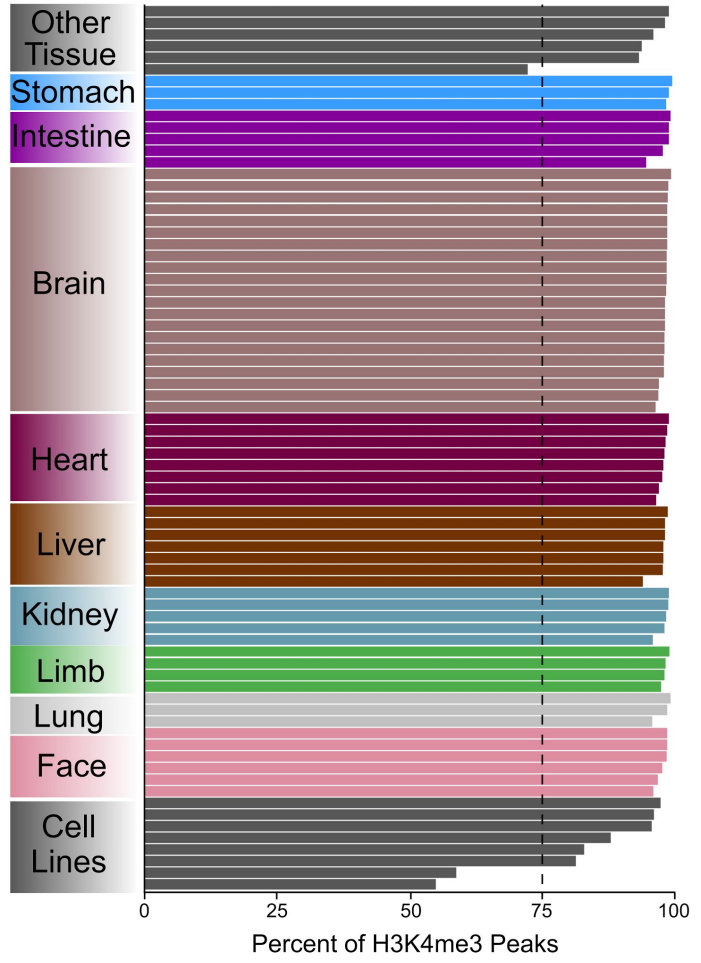
c

hg19 CTCF



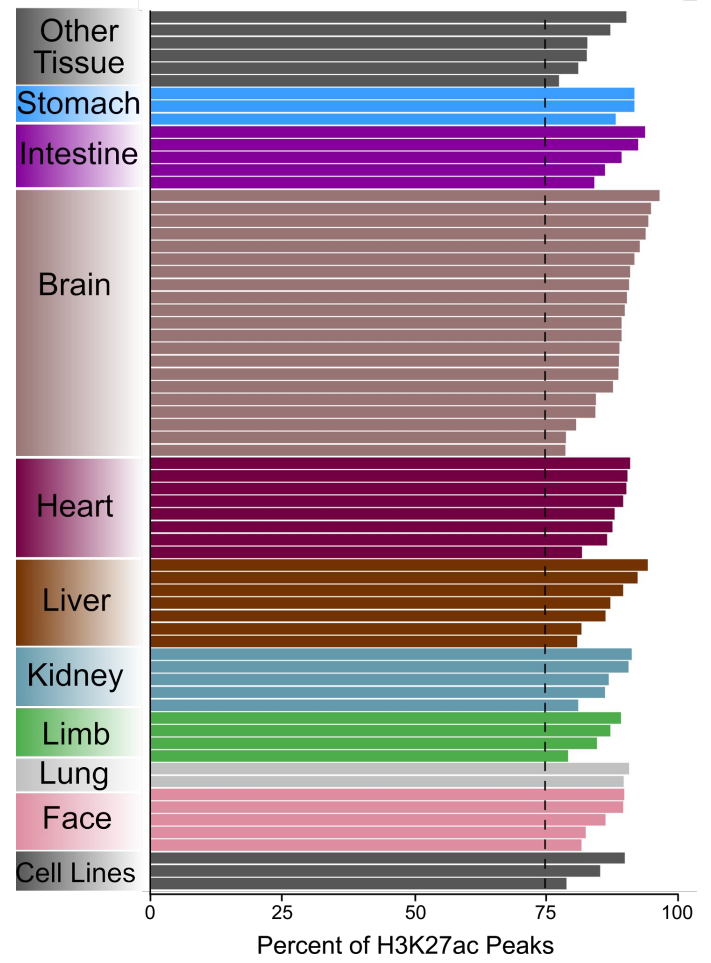
a

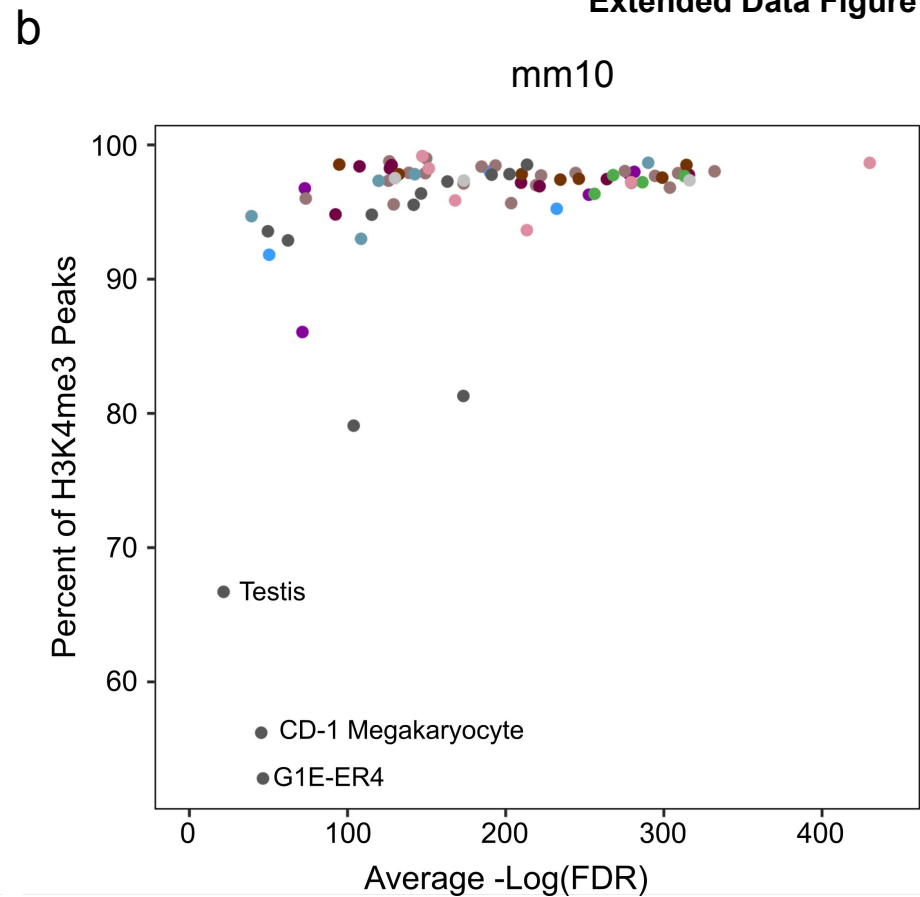
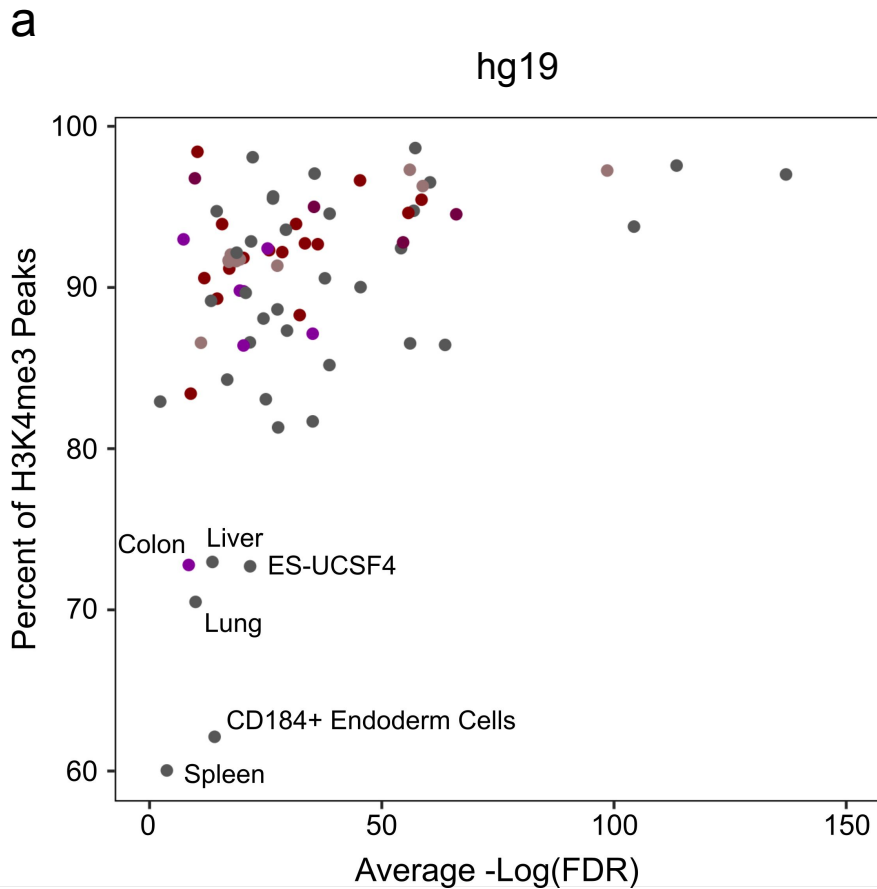
mm10 H3K4me3

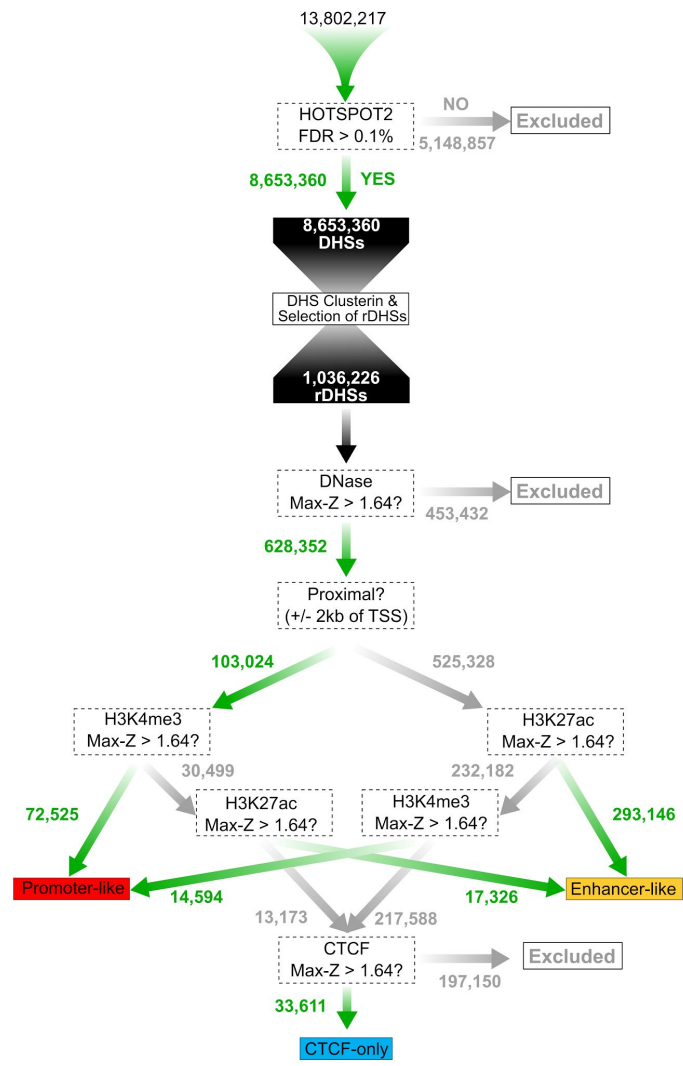


b

mm10 H3K27ac

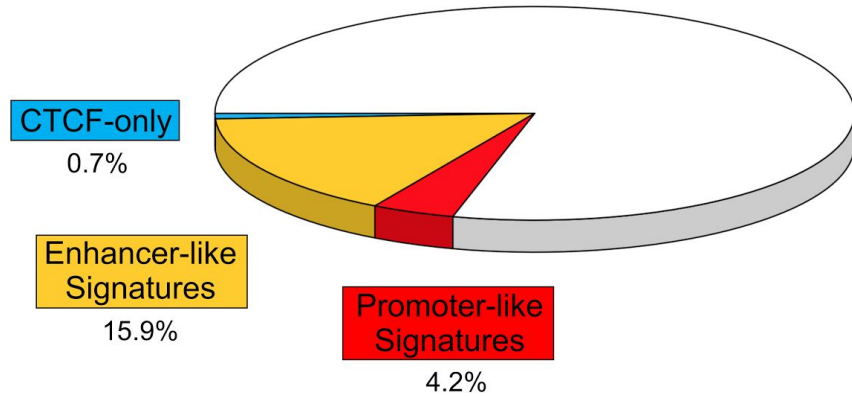






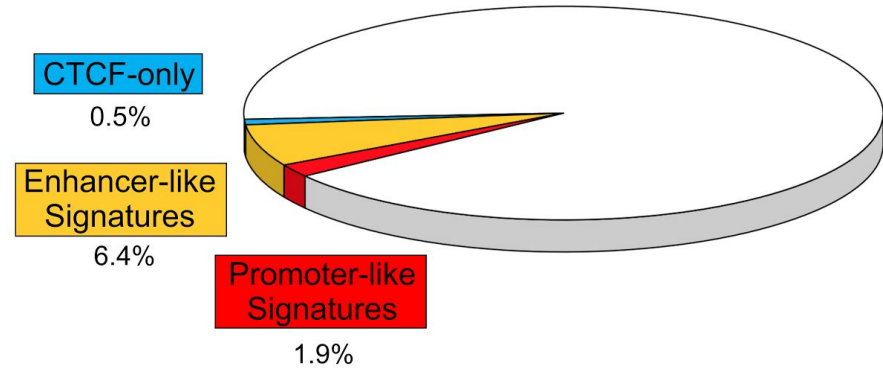
a

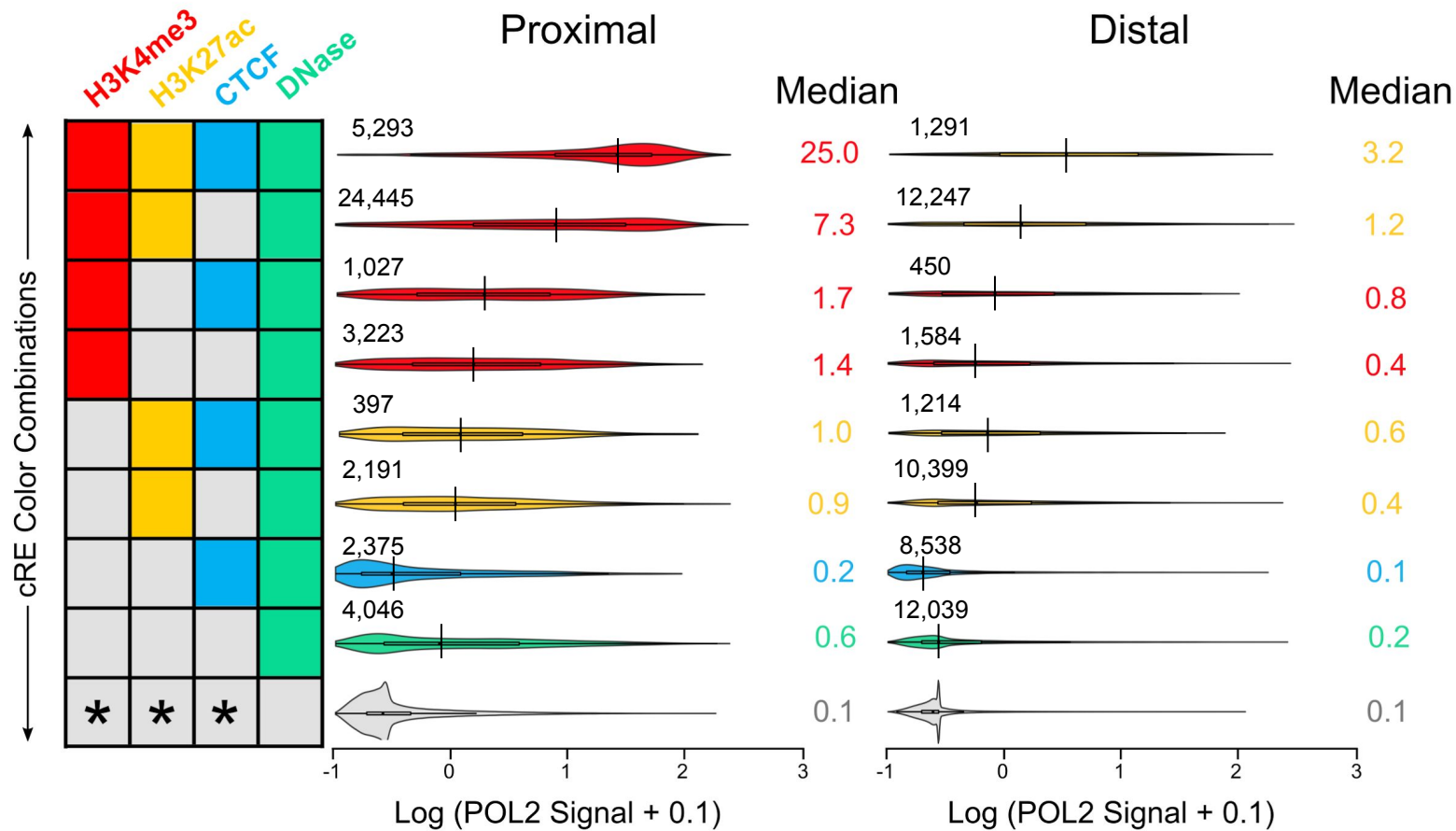
Human  
DNase Mappable Genome  
(2.65 Billion Bases)



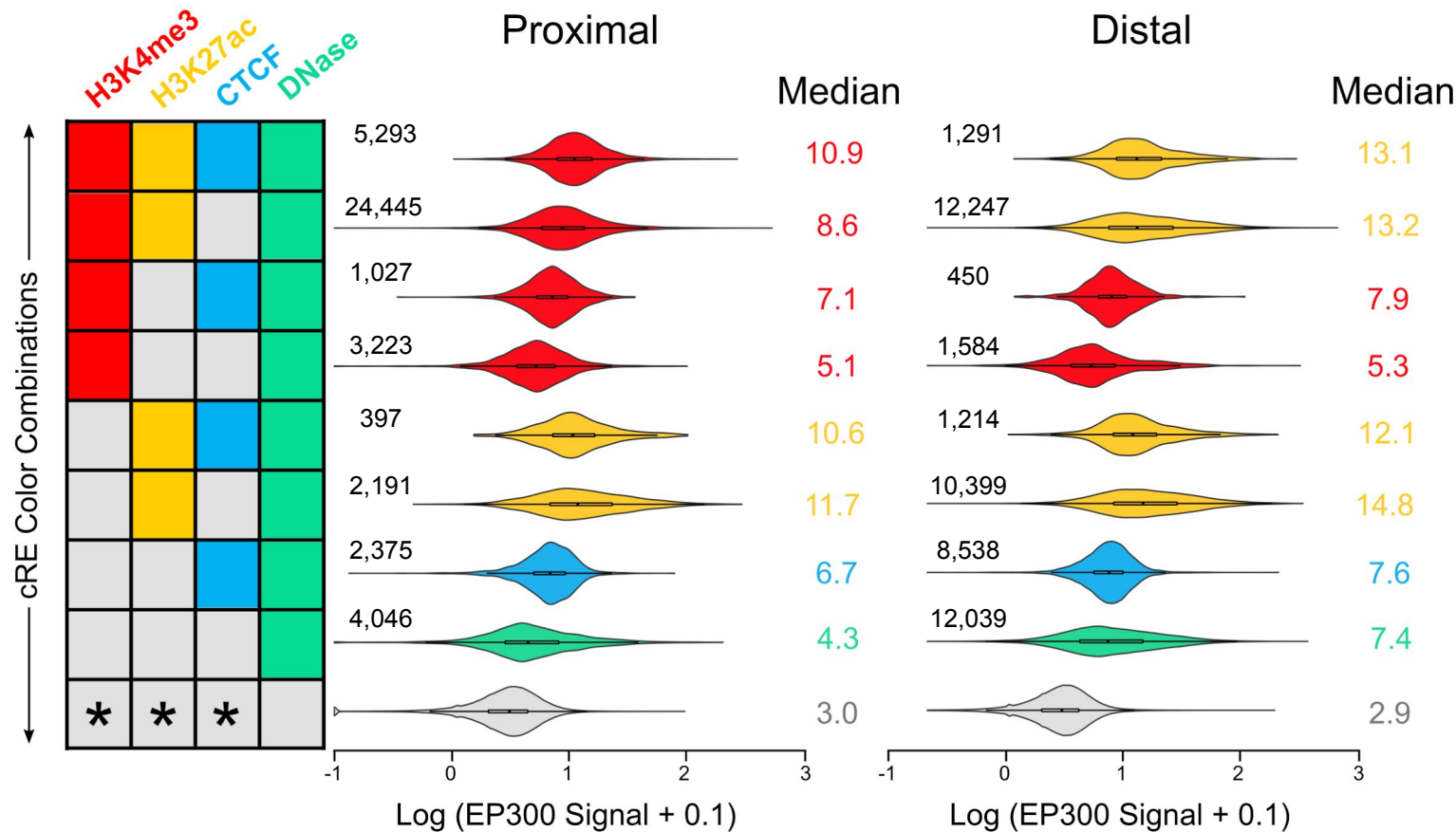
b

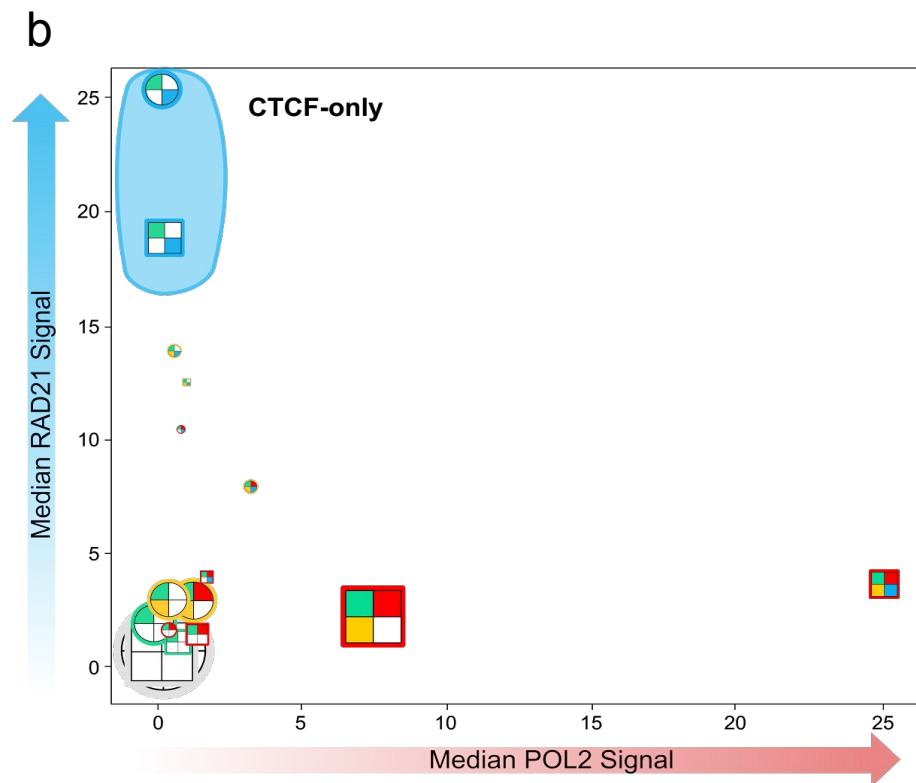
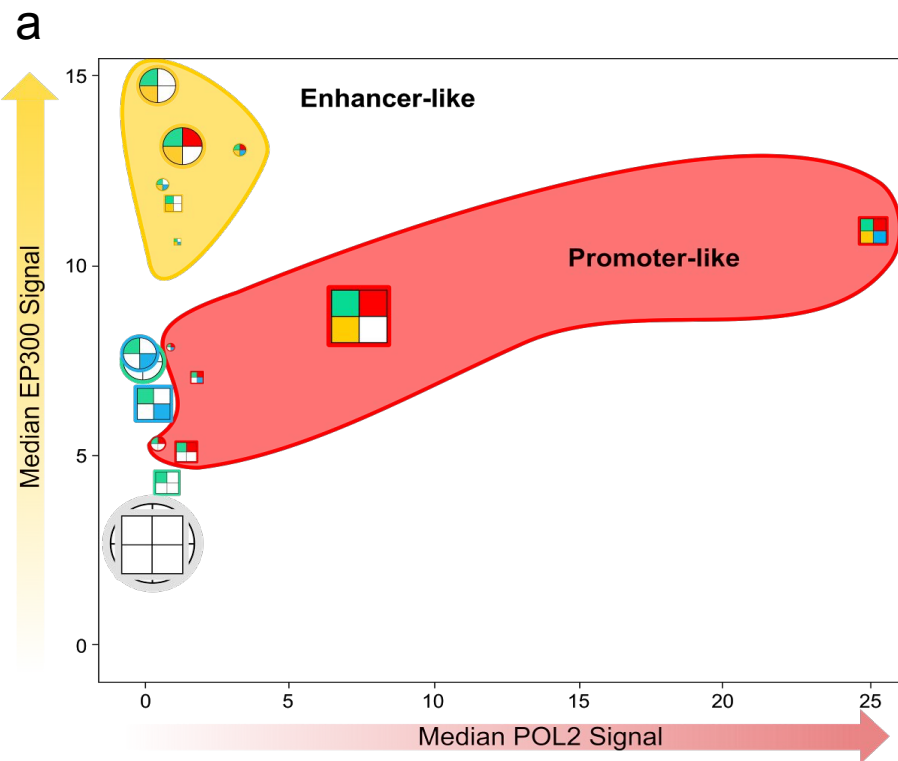
Mouse  
DNase Mappable Genome  
(2.29 Billion Bases)

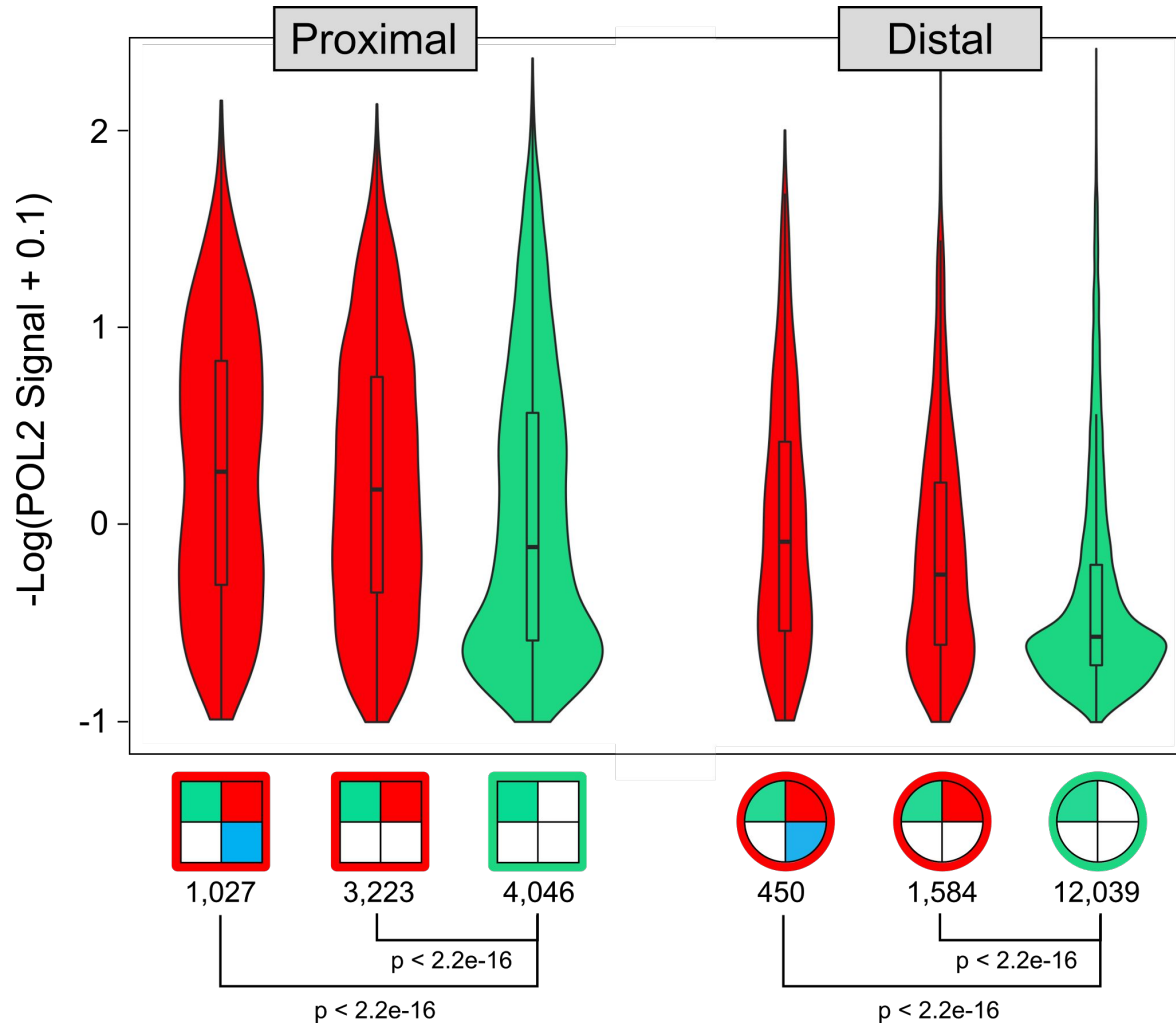


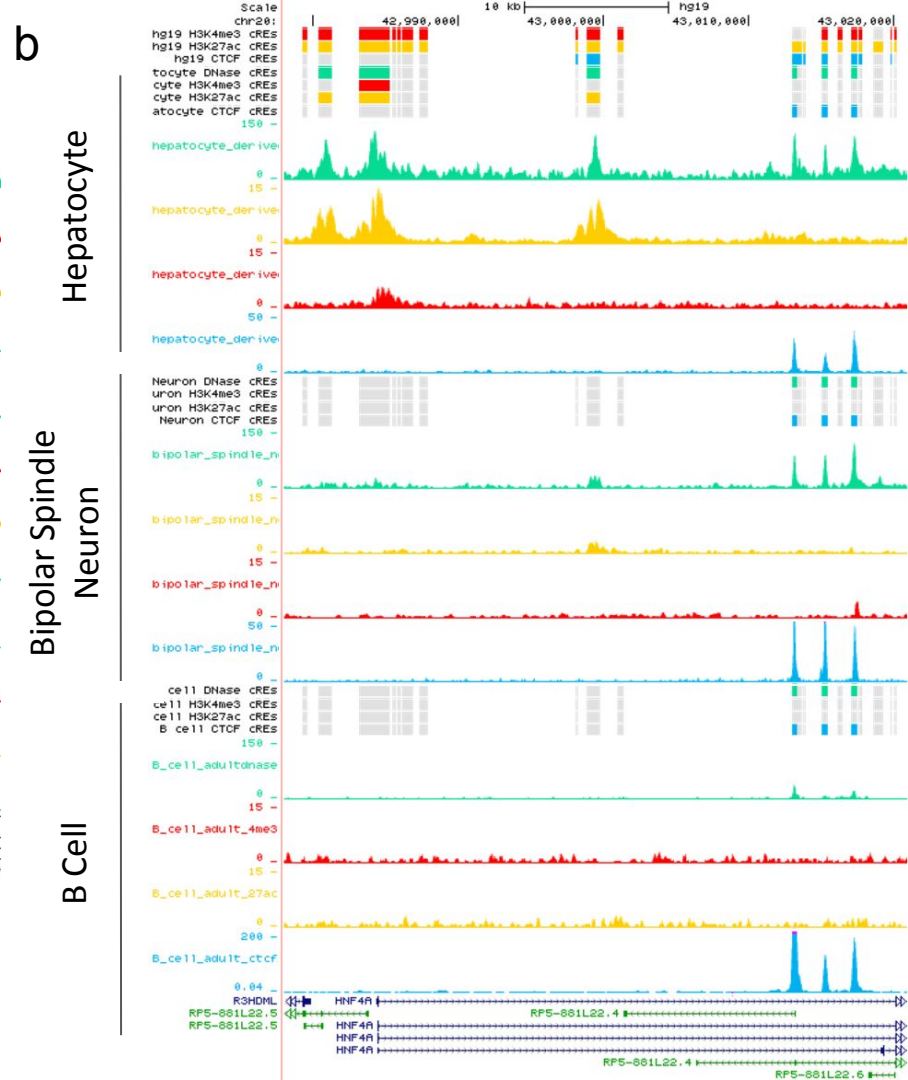
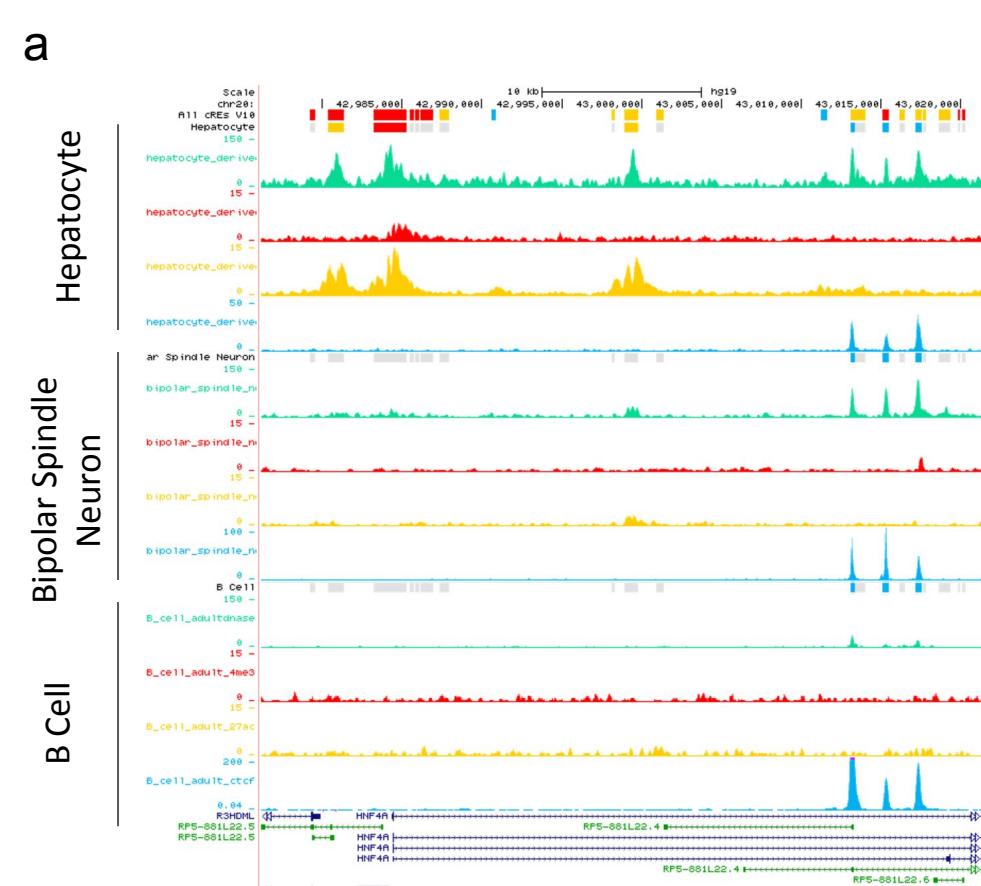


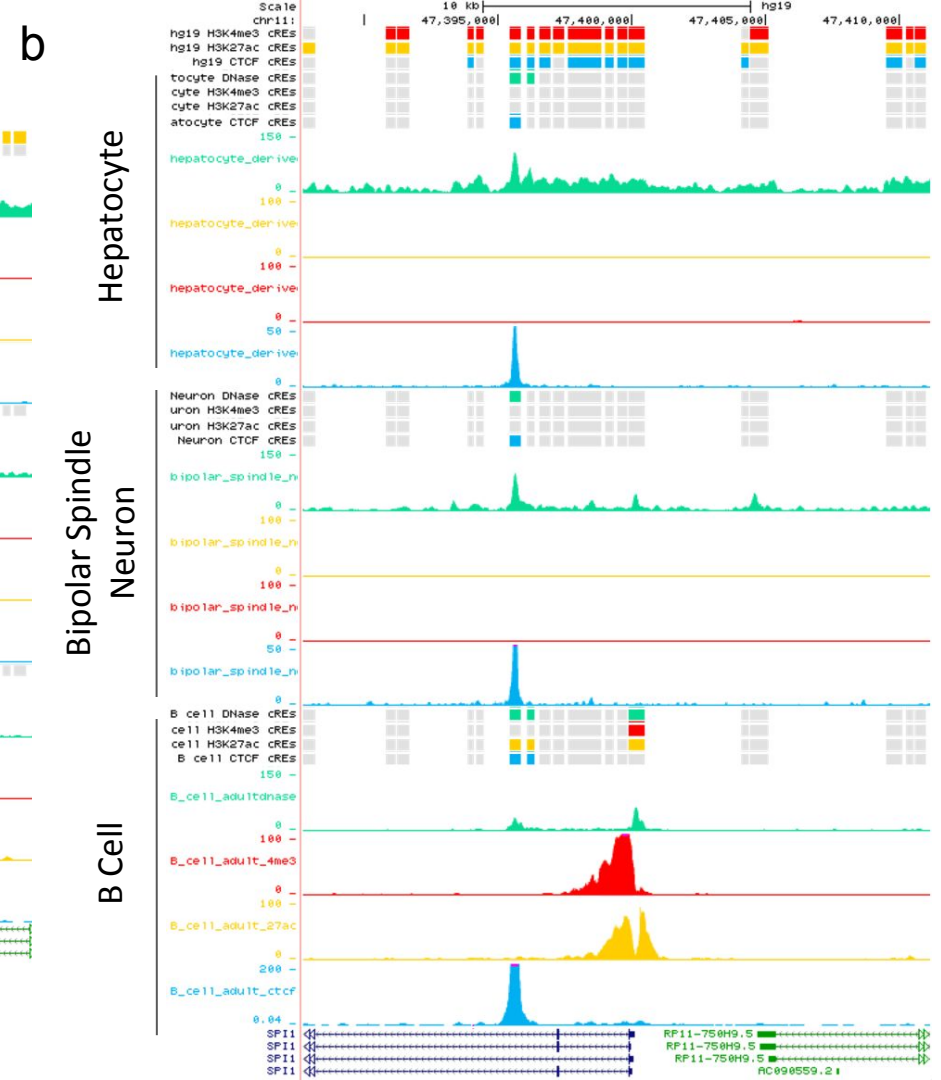
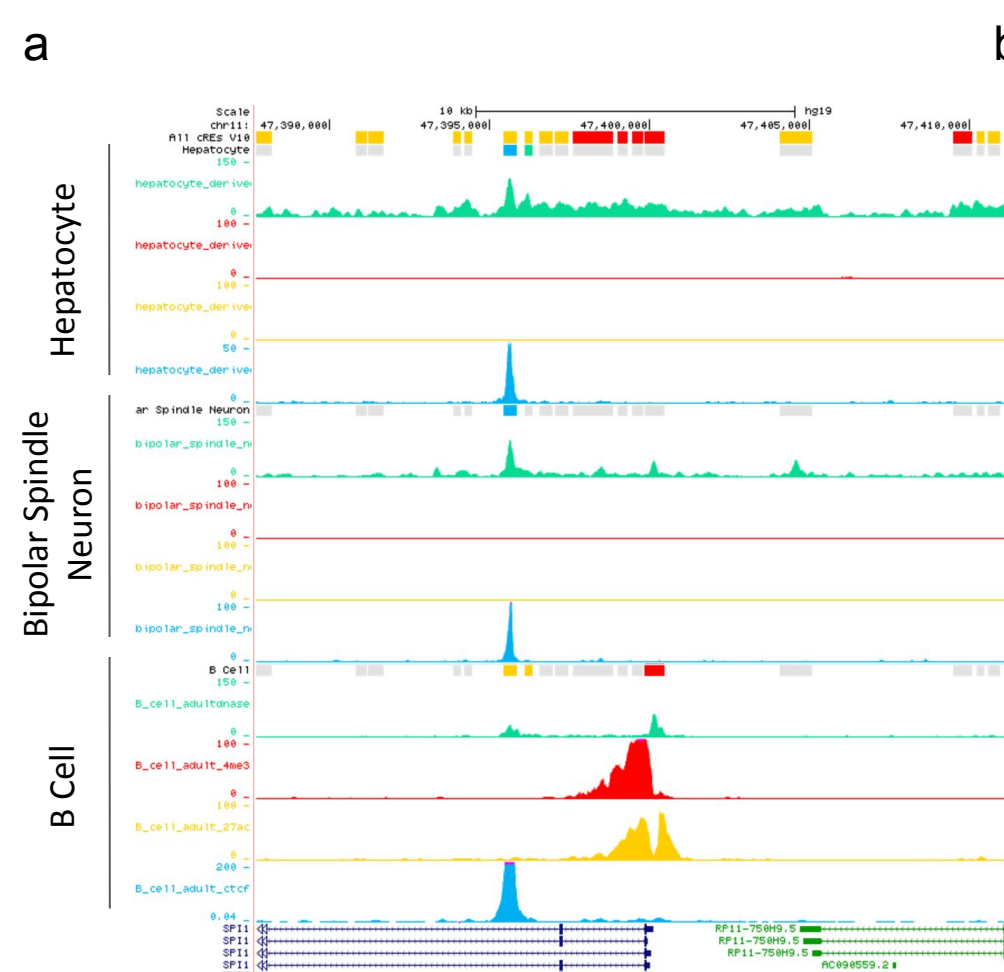


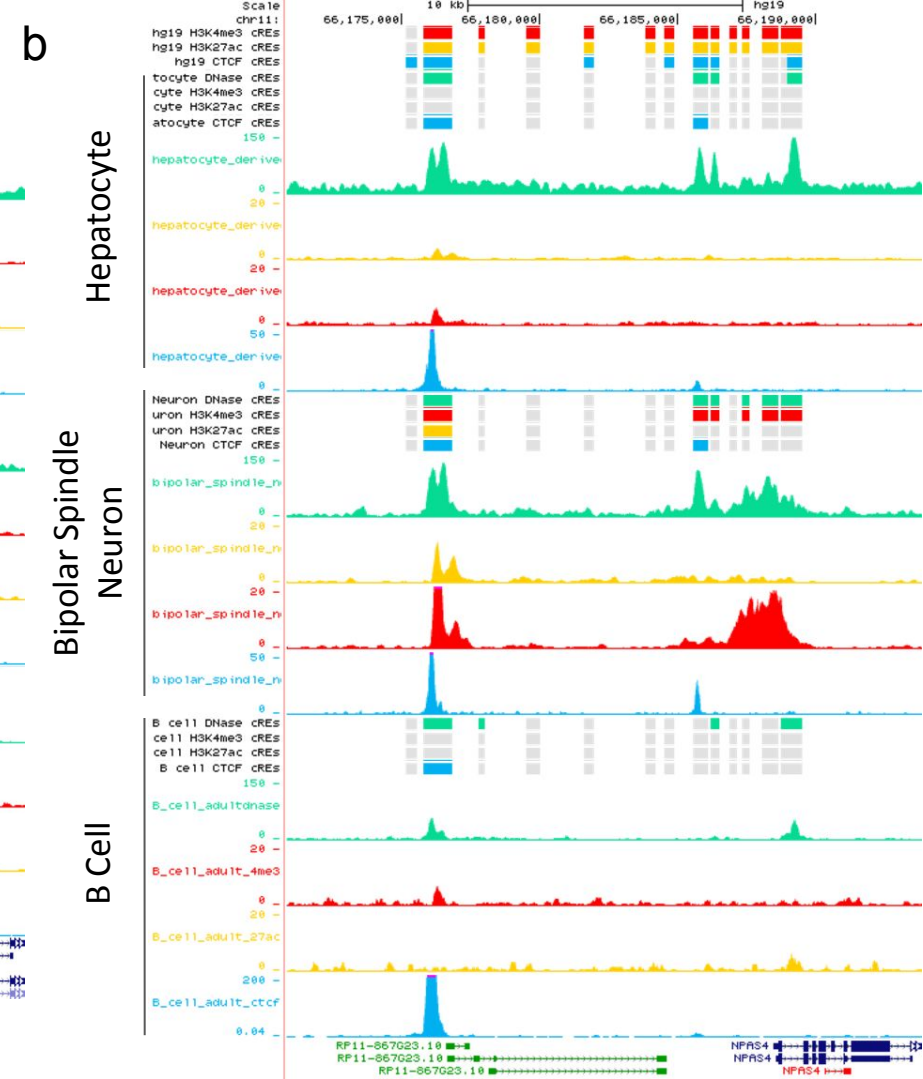
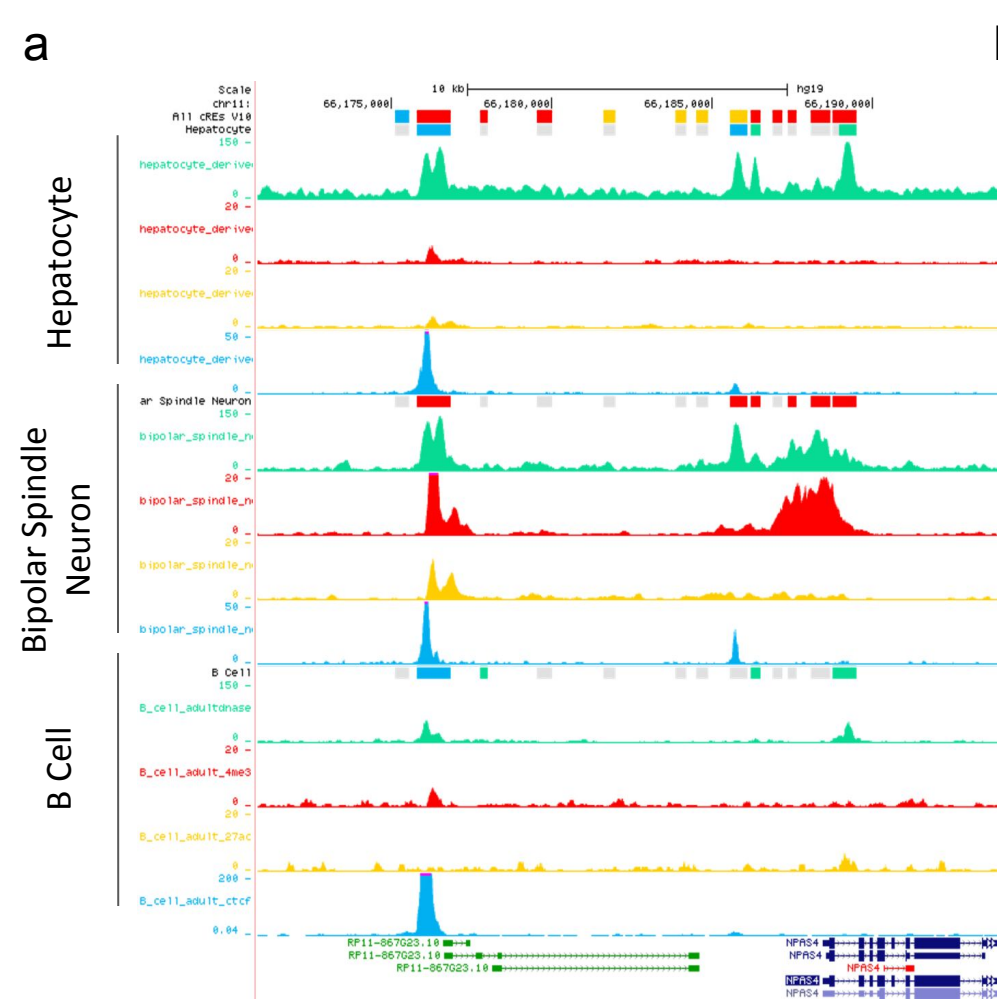




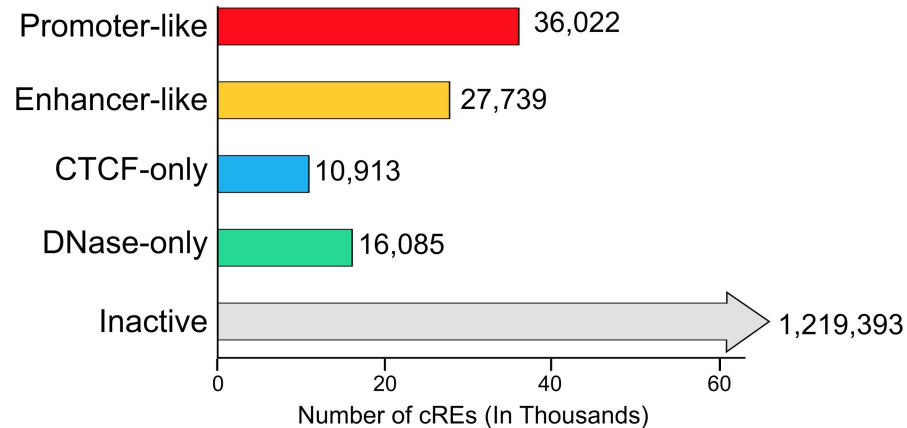
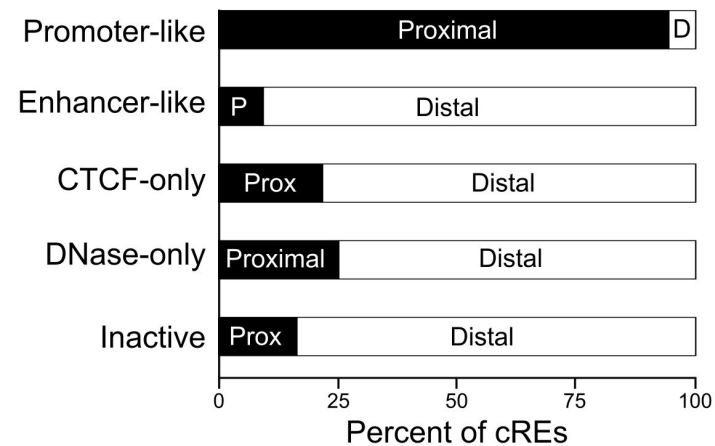
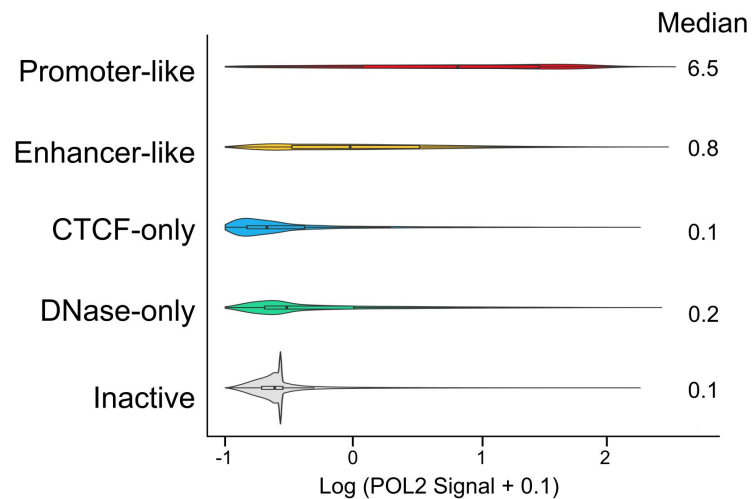
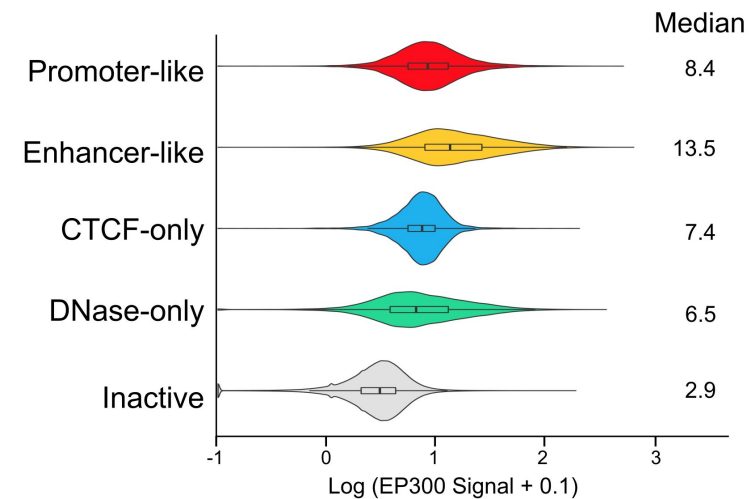




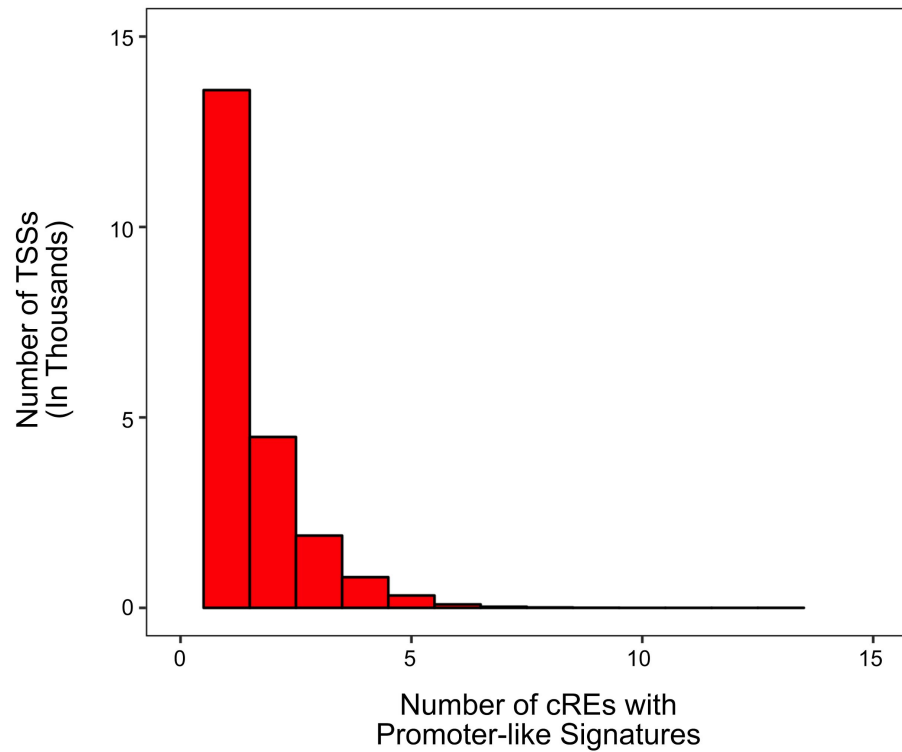




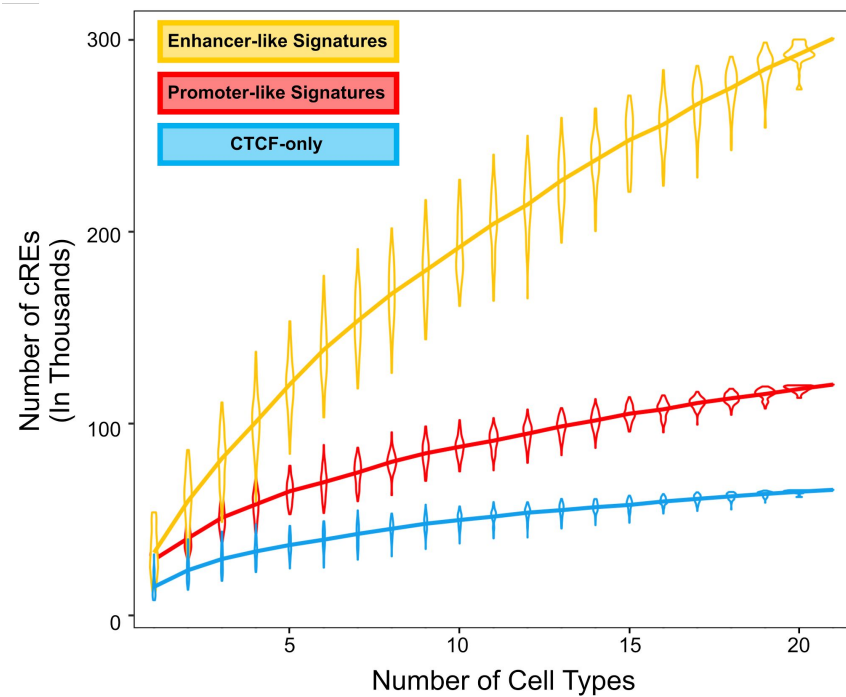
Extended Data Figure 22

**a****b****Extended Data Figure 23****c****d**

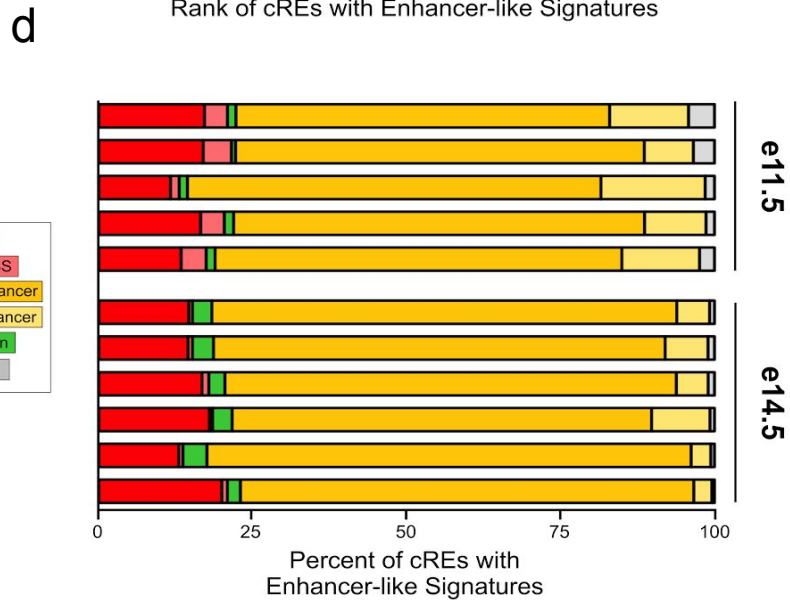
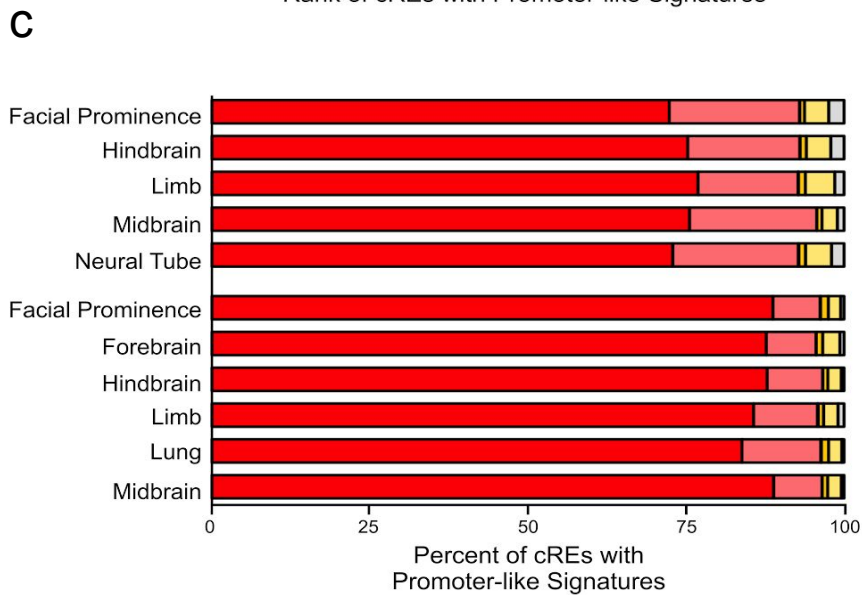
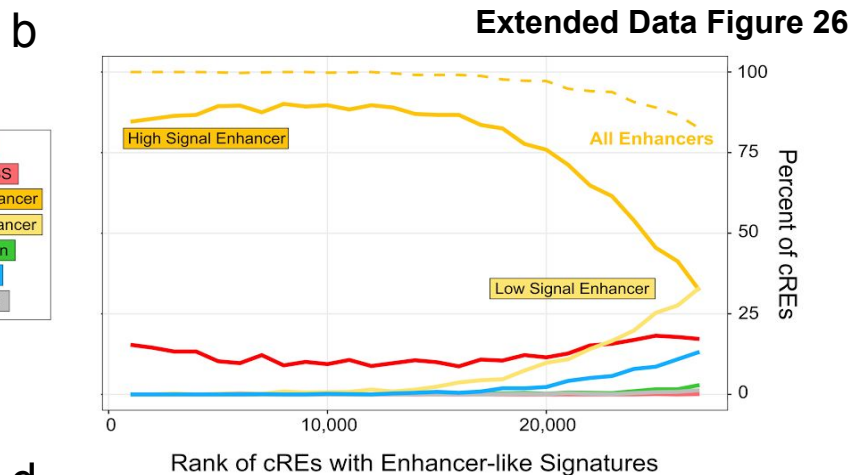
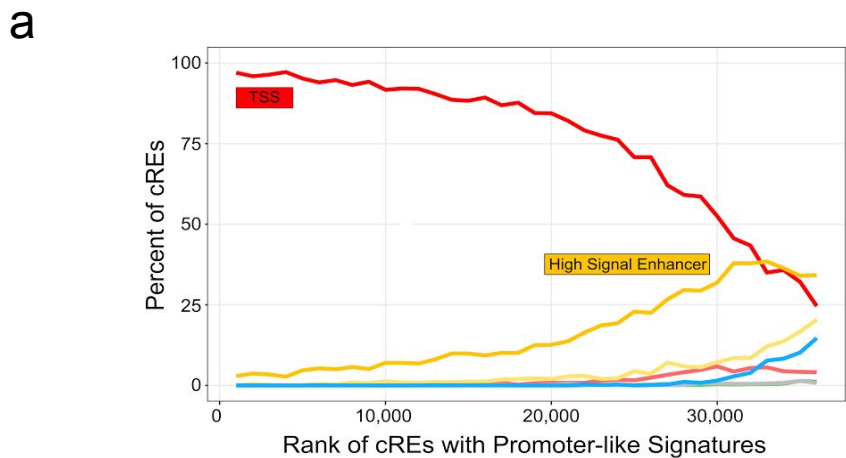
a



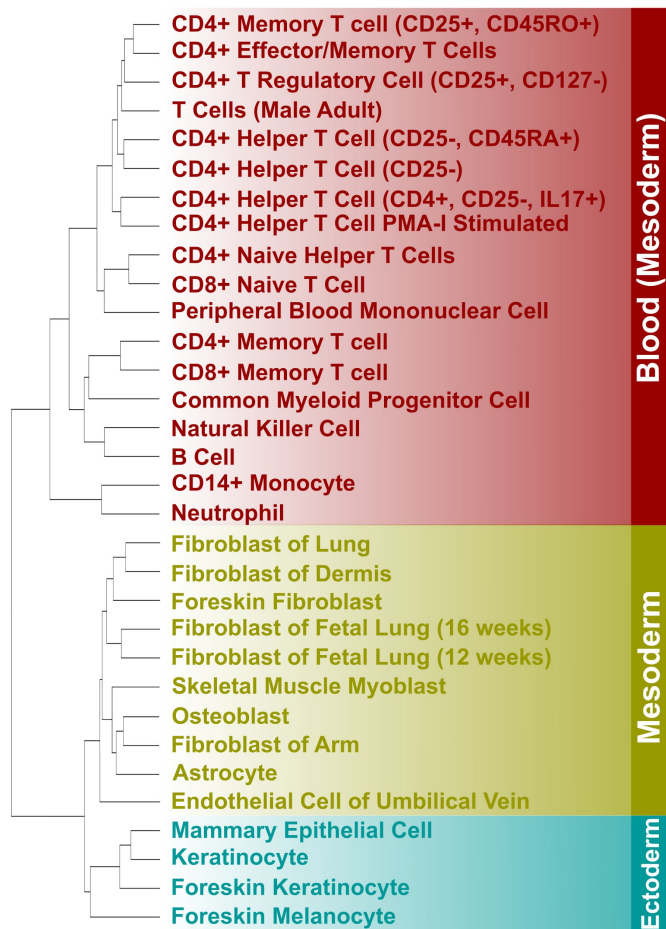
b



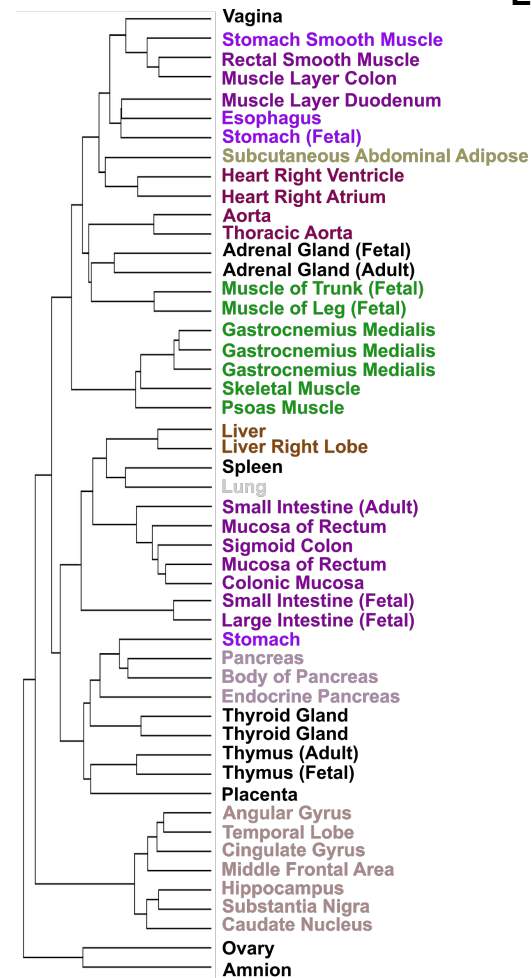




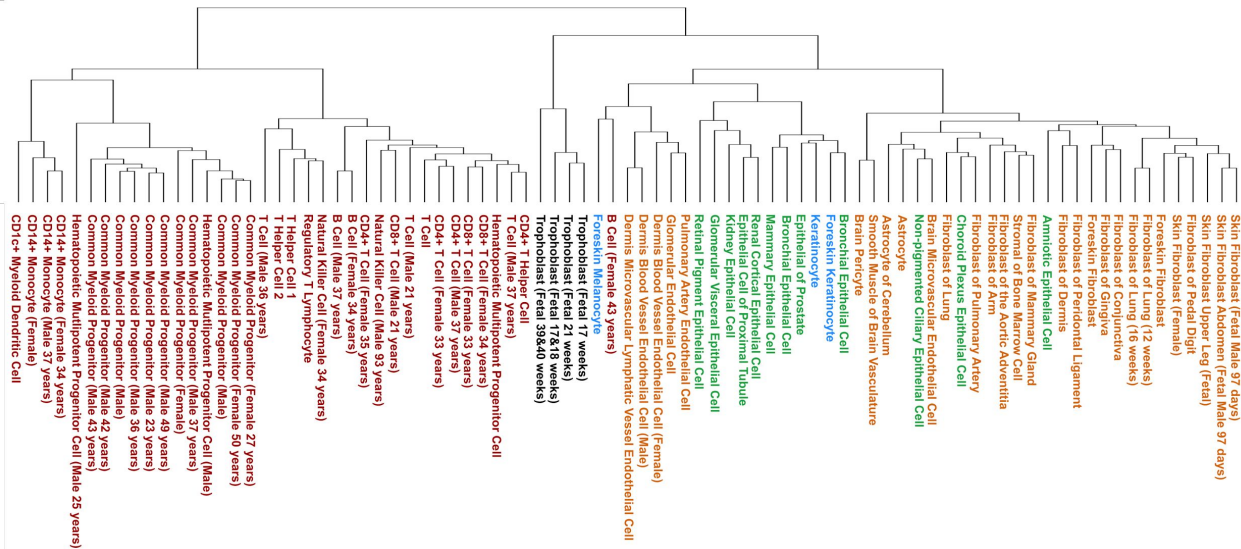
a



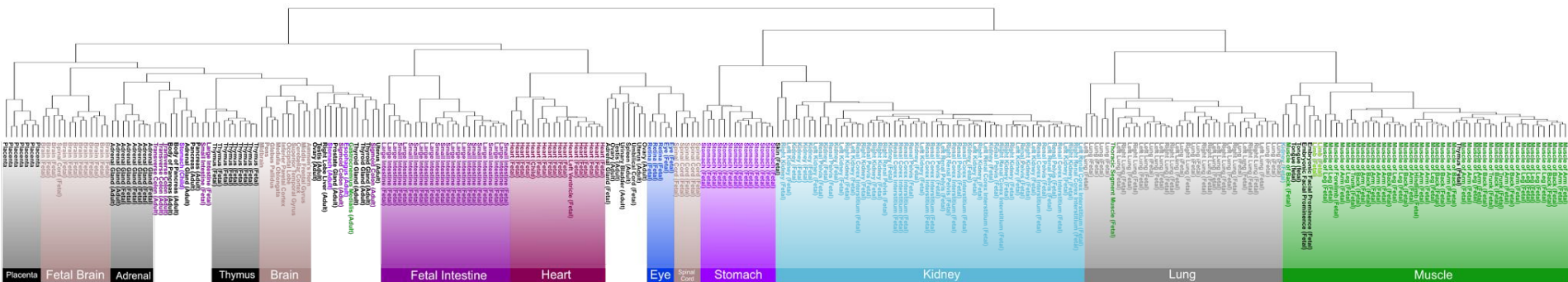
b

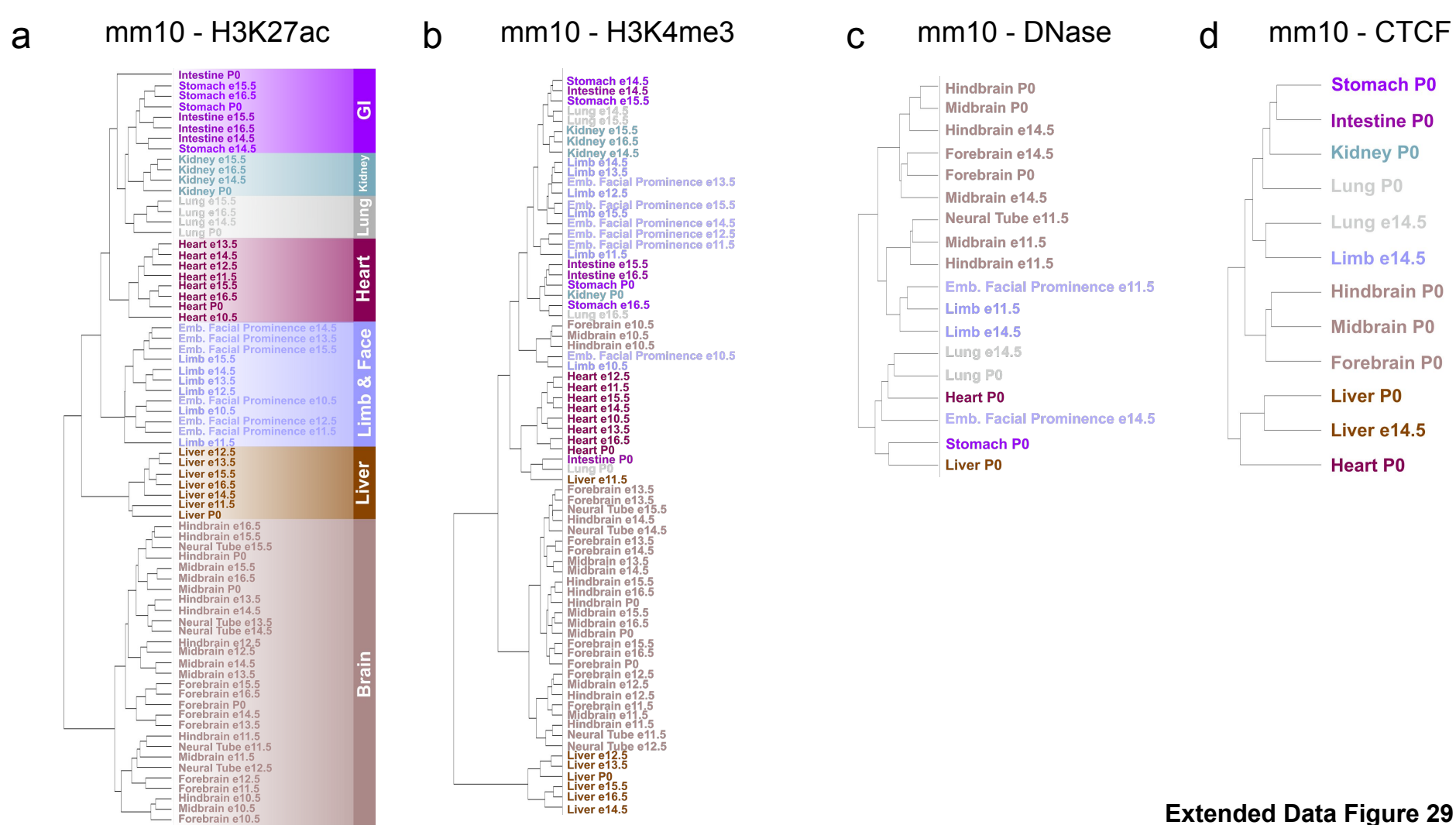


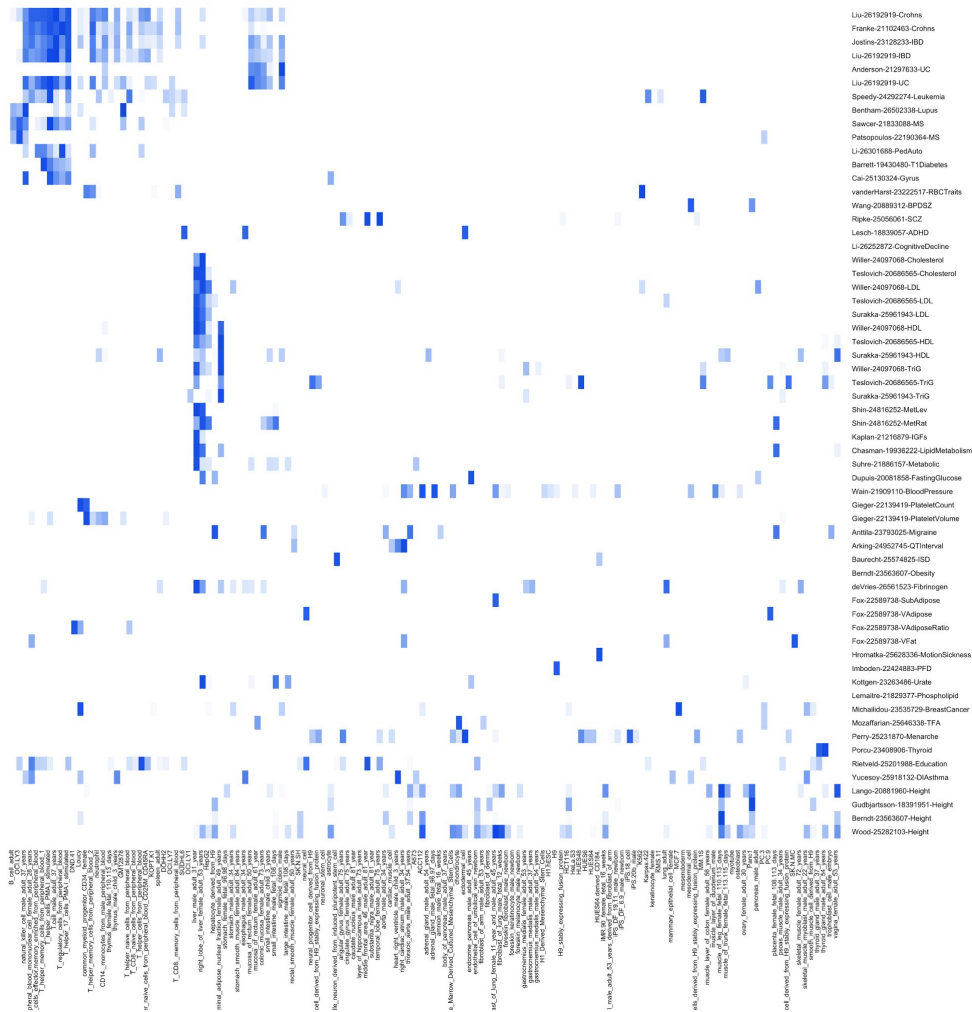
a hg19 - Primary Cell - DNase



b hg19 - Tissues - DNase







## Blood

### T Helper Cells

Multiple Sclerosis  
Leukemia

Ulcerative Colitis  
Type 1 Diabetes

Heschl's Gyrus Morphology  
Educational Attainment  
Inflammatory Skin Disease

### T Regulatory Cells

Crohn's Disease  
Pediatric Autoimmune Diseases

### T Cells

Inflammatory Bowel Disease  
Crohn's Disease

### B Cell Lymphoma Cell Lines

Platelet Count  
Multiple Sclerosis  
Obesity  
Cognitive Decline

### Lymphoblast Cell Line

Lupus Erythematosus

### Erythroid Leukemia Cell Line

Red Blood Cell Traits

### Myeloid Progenitor Cell

Platelet Volume

## Thyroid

### Thyroid Gland

Thyroid Hormone Levels

## Heart

### Heart Tissue

QT Interval

## Fibroblasts

### Fibroblast Cells

Height  
Phospholipid Levels  
Subcutaneous adipose tissue

## Gastrointestinal

### Colon Tissue

Ulcerative Colitis

## Muscle

### Leg Muscle Tissue

Height

## Brain

### Brain Tissue

Schizophrenia  
ADHD

## Breast

### Breast Cancer Cell Line

Breast Cancer

## Pancreas

### Pancreas Cells

Height  
Insulin Levels

## Precursor Cells

### Ectoderm Cells

Age of Menarche  
Motion Sickness

### Stem Cells

Triglyceride Levels  
Bipolar Disorder  
Pulmonary Function Decline

## Liver

### Liver Tissue

Total Cholesterol  
LDL Cholesterol  
HDL Cholesterol  
Lipid Metabolism  
Metabolite Levels  
Urate Levels  
Fibrinogen Levels  
Metabolite Ratios  
Metabolic Traits  
Insulin-like Growth Factors

### Hepatocyte

Migraine

## Adipose

### Abdominal Tissue

HDL Cholesterol  
Triglyceride Levels

## Adrenal Gland

### Fetal Adrenal Gland

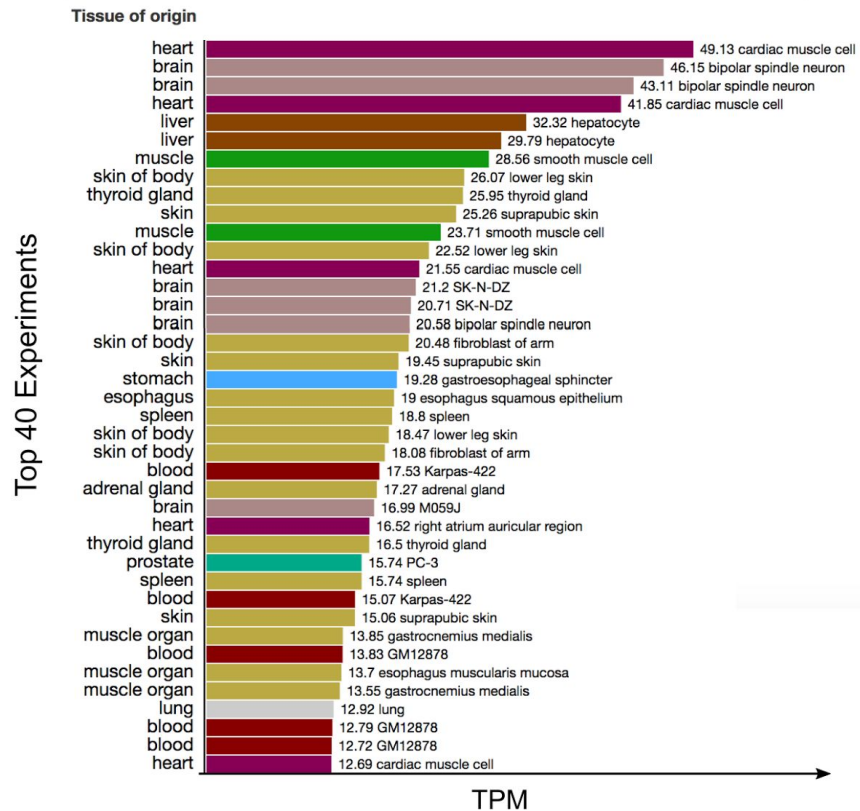
Blood Pressure

a

## Gene Expression - RNA-seq

*ZMIZ1*

ENSG00000108175.12 - chr10:80,828,792-81,076,276



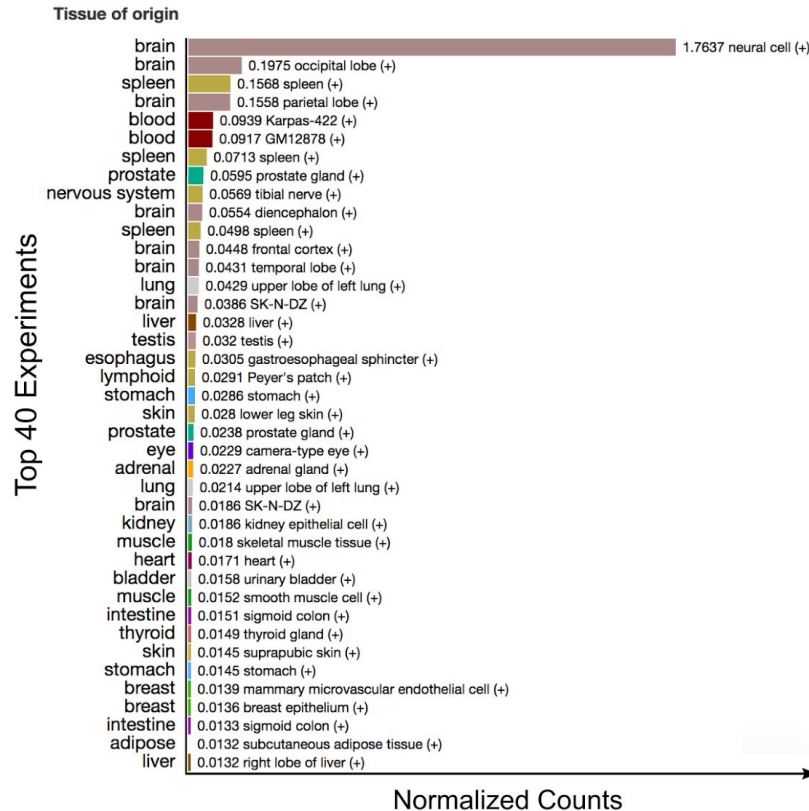
b

Extended Data Figure 32

## Transcription Quantification - RAMPAGE

*ZMIZ1*

ENST00000472035.1 - chr10:81,003,426

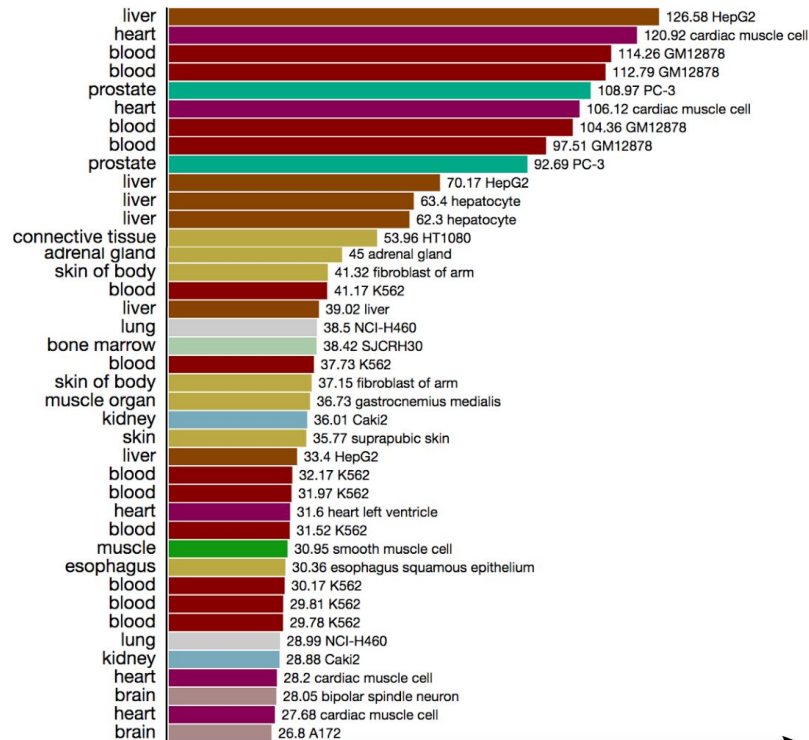


## Gene Expression - RNA-seq

*PPIF*

ENSG00000108179.9 - chr10:81,106,947-81,107,457

Tissue of origin



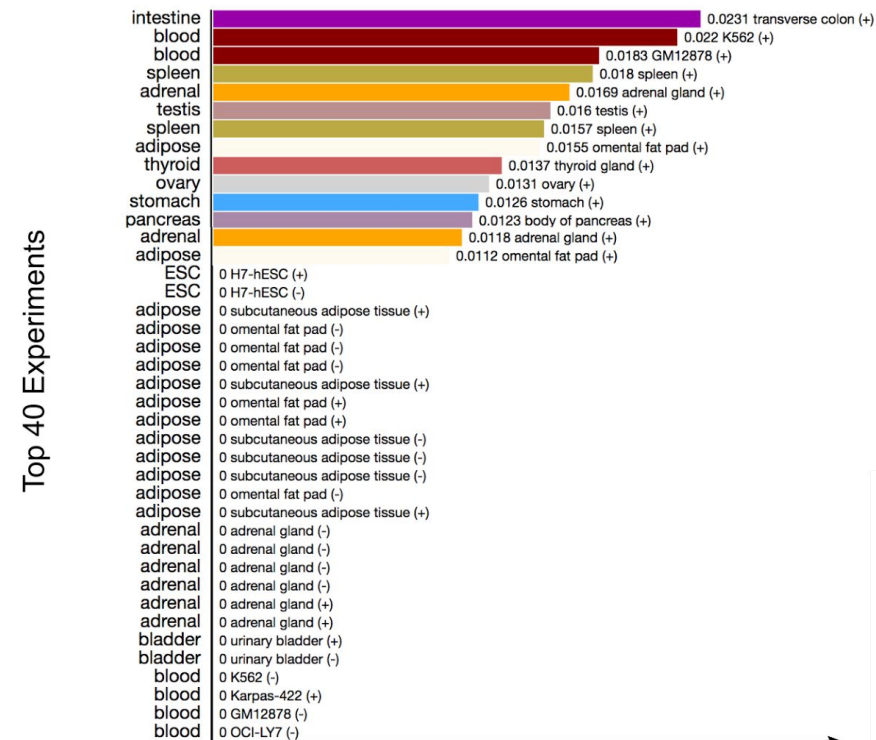
b

## Transcription Quantification - RAMPAGE

*PPIF*

ENST00000225174.3 - chr10:81107234

Tissue of origin



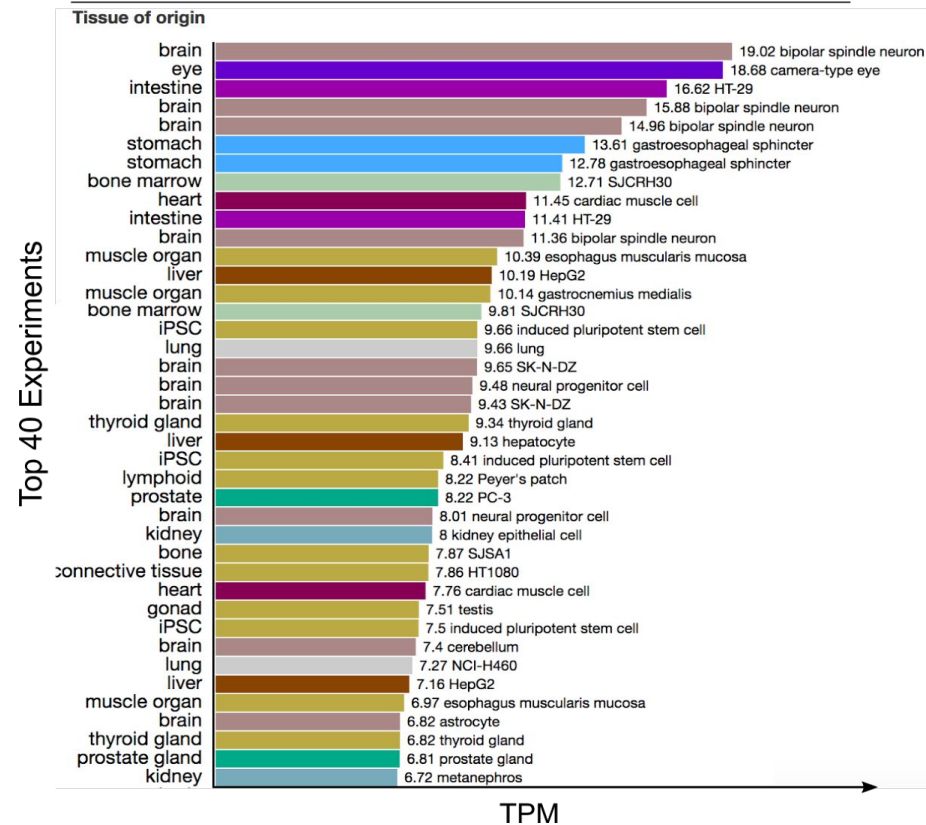


a

## Human (hg19) - RNA-seq

*AGAP1*

ENSG00000157985.13 - chr2:236,409,993-236,410,636



b

## Mouse (mm10) - RNA-seq

*Agap1*

ENSMUSG00000055013.10 - chr1:89,455,333-89,456,120

