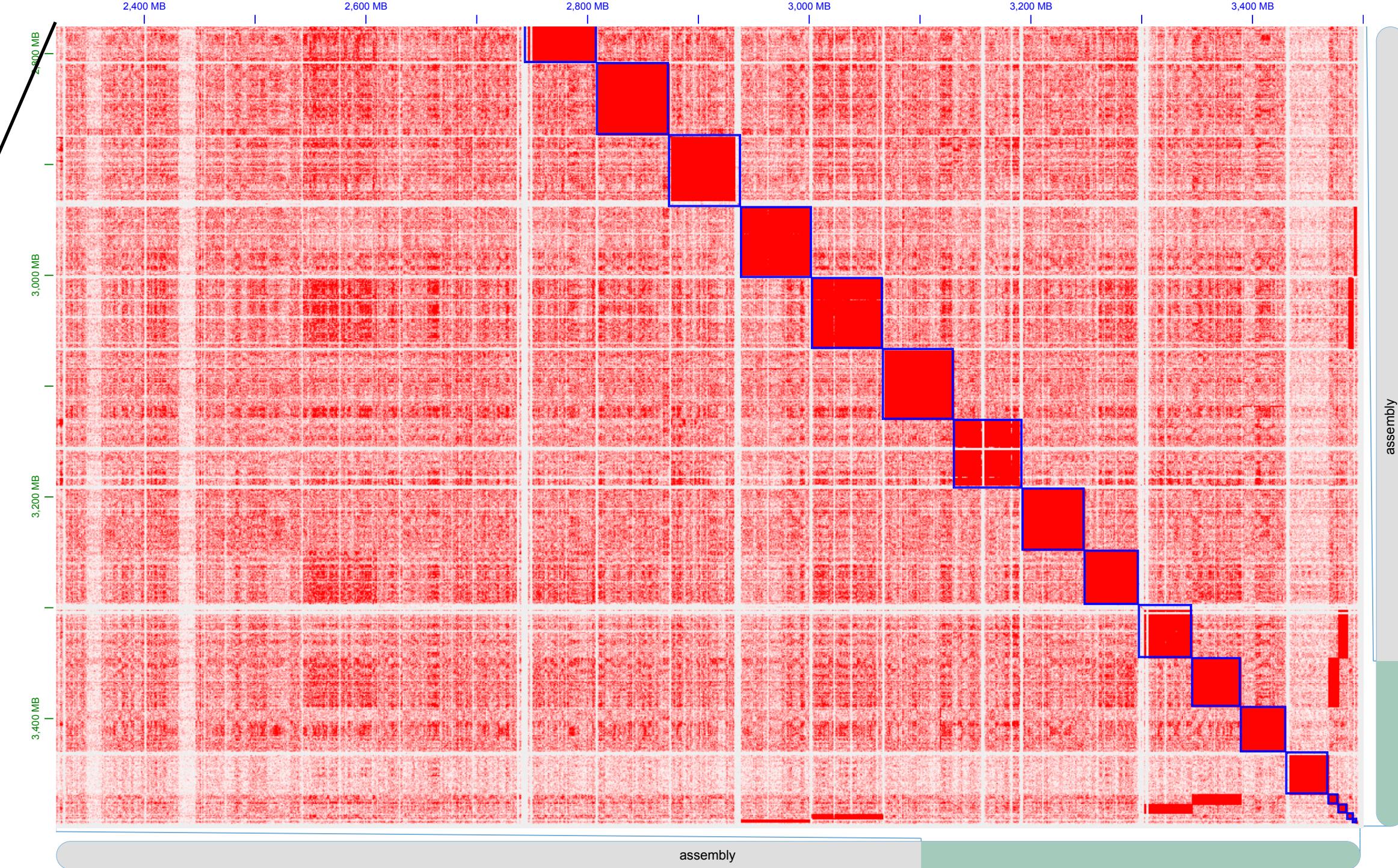
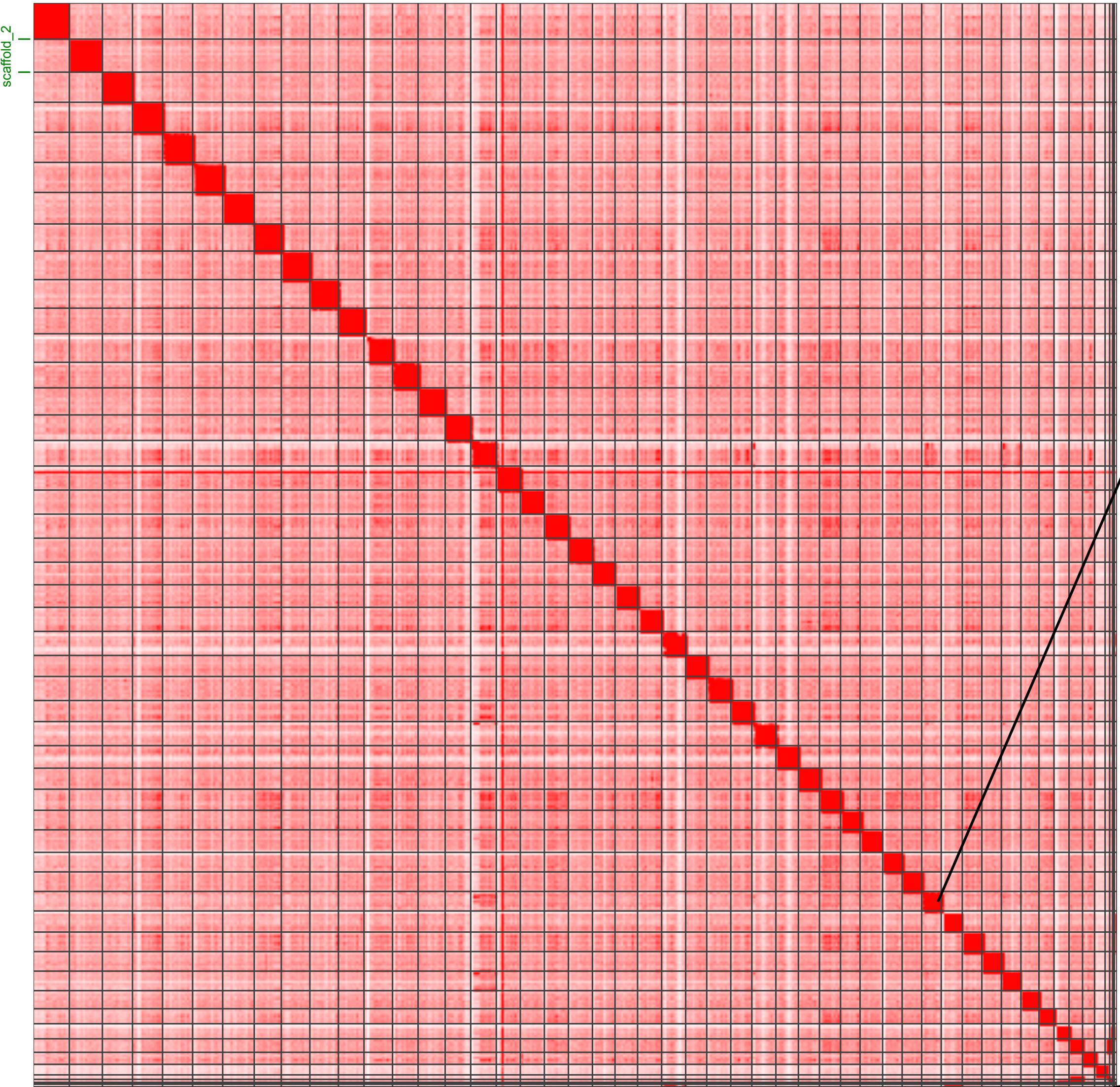


Supplement

Genome Assembly

Z, 1/2 coverage

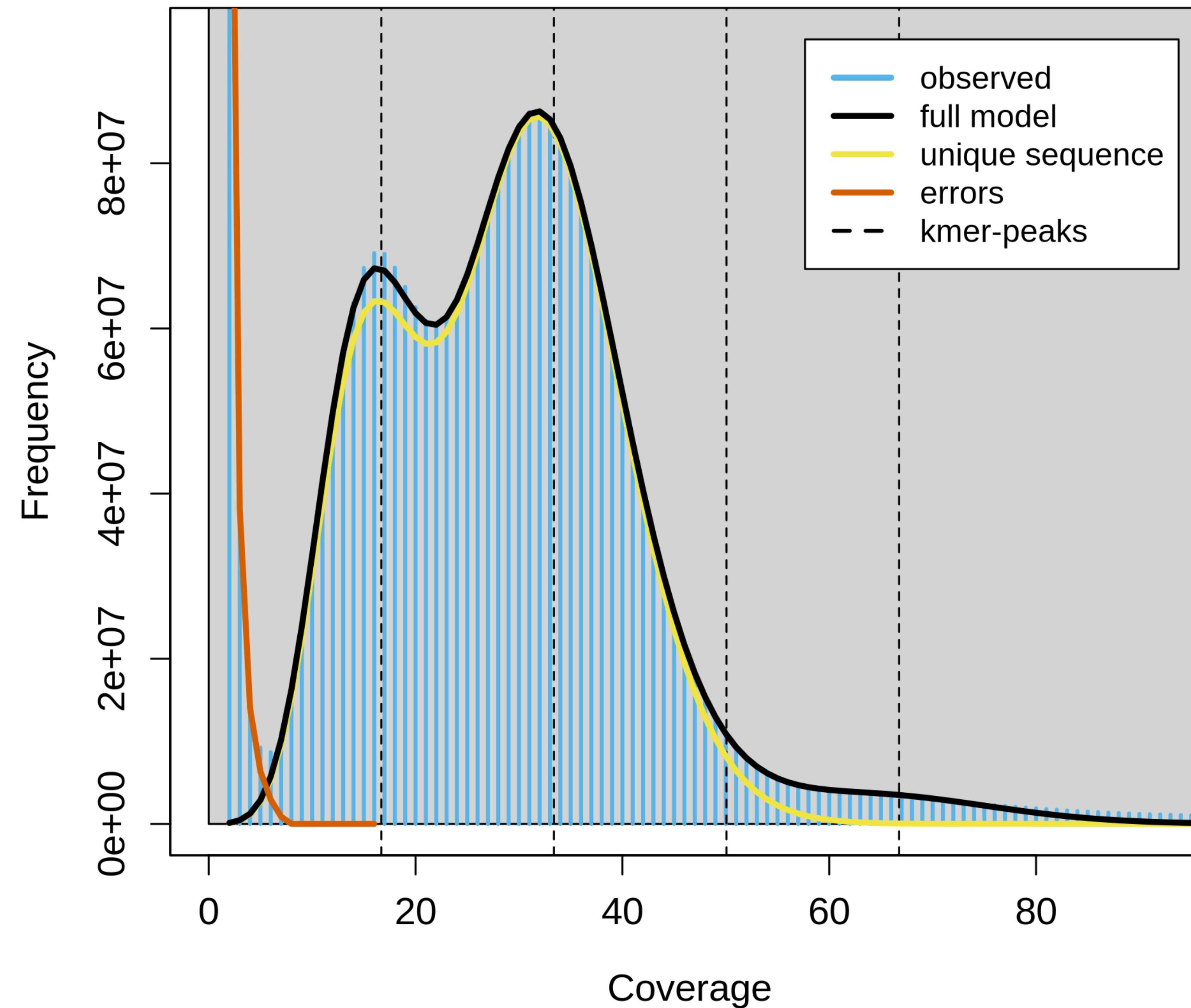


GenomeScope Profile

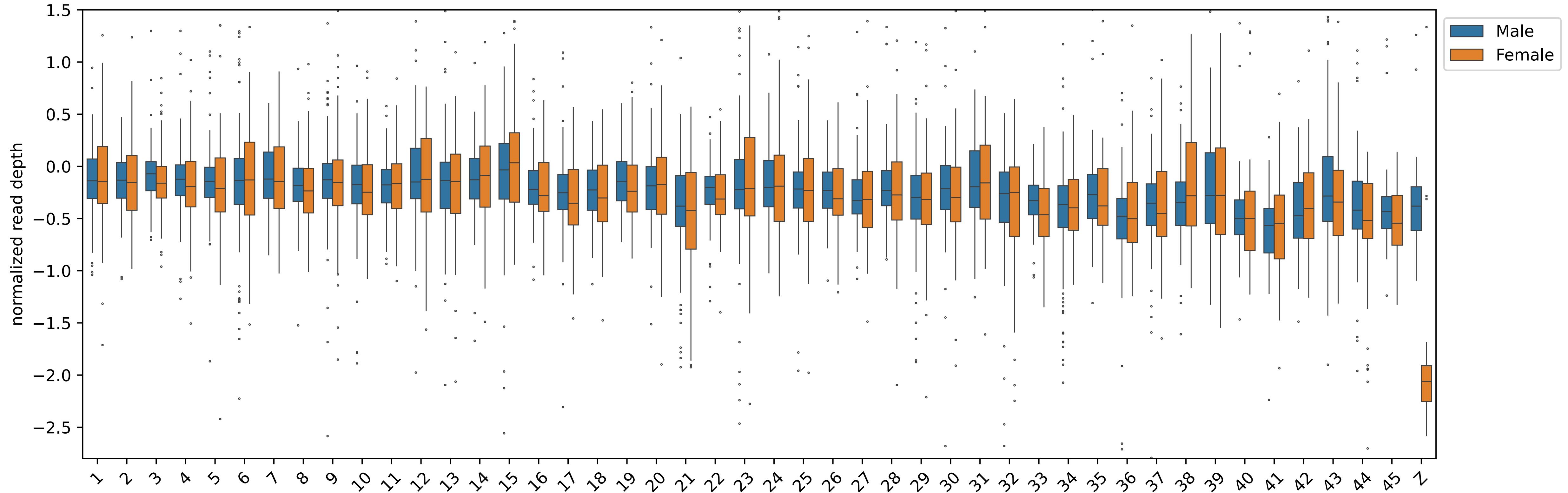
len:2,450,359,224bp uniq:79.8%

aa:98.9% ab:1.06%

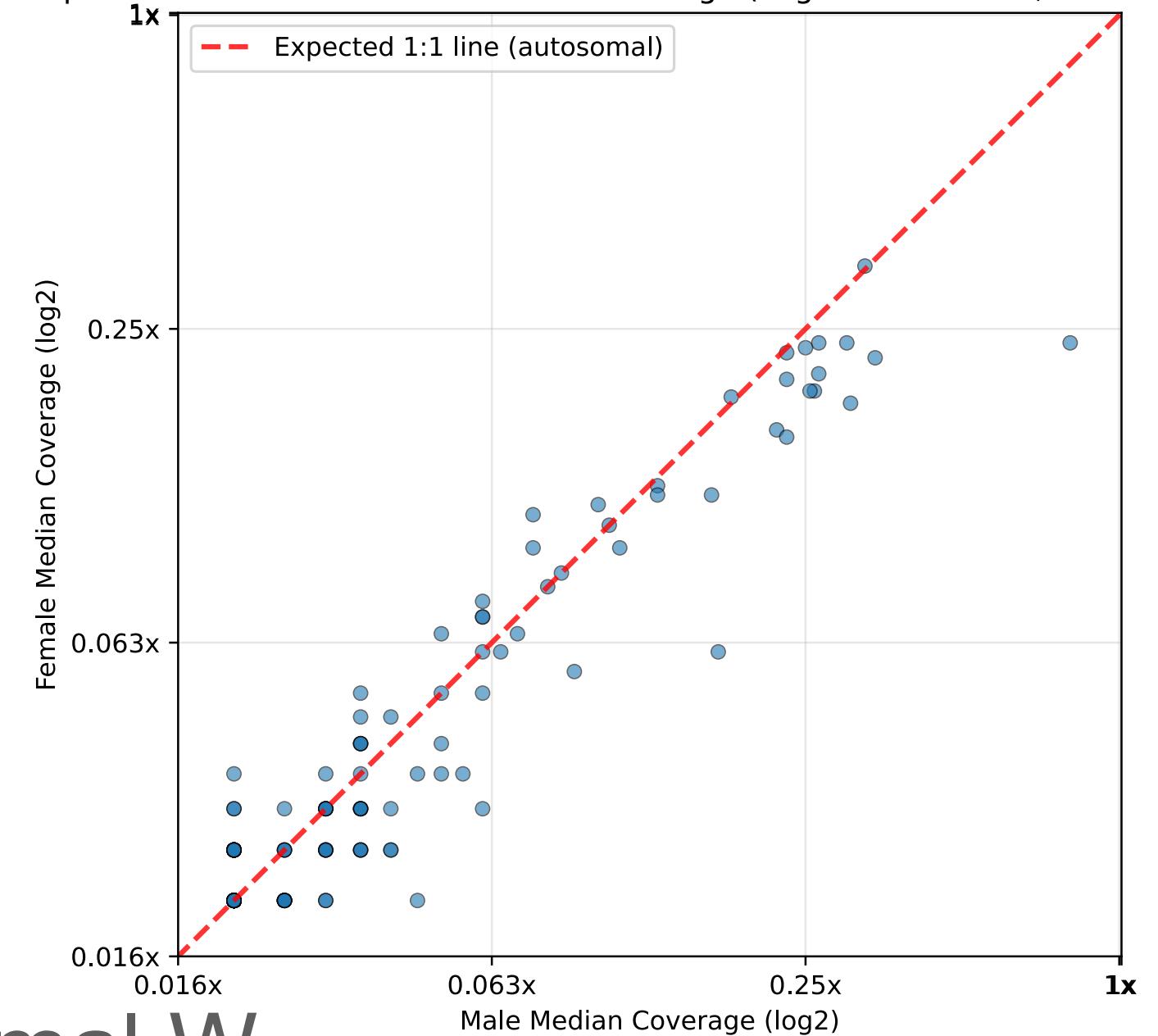
kcov:16.7 err:0.0318% dup:0.673 k:21 p:2



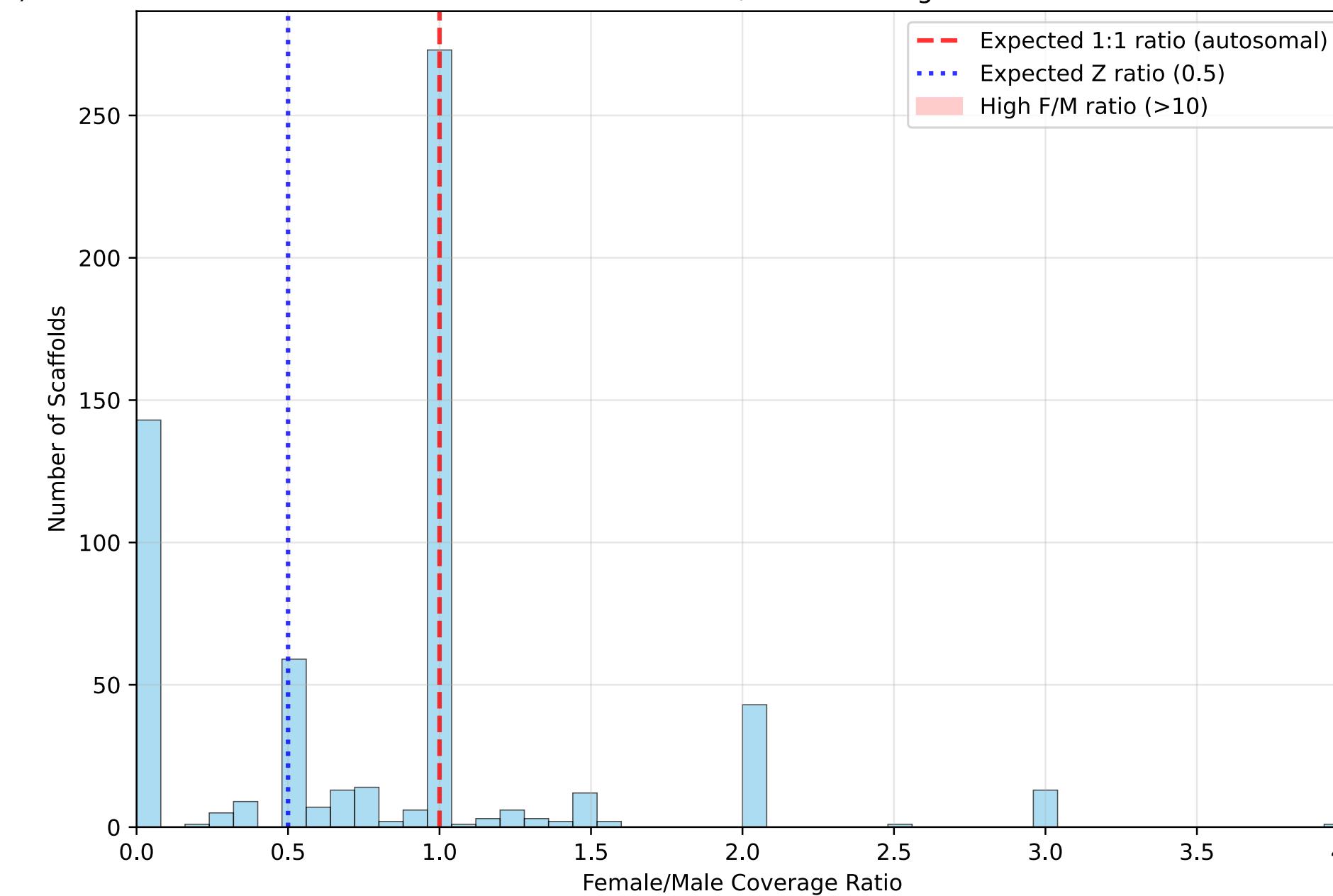
Coverage M and F



Unplaced Scaffolds: Male vs Female Coverage (Log2 transformed, zoomed to 1x)

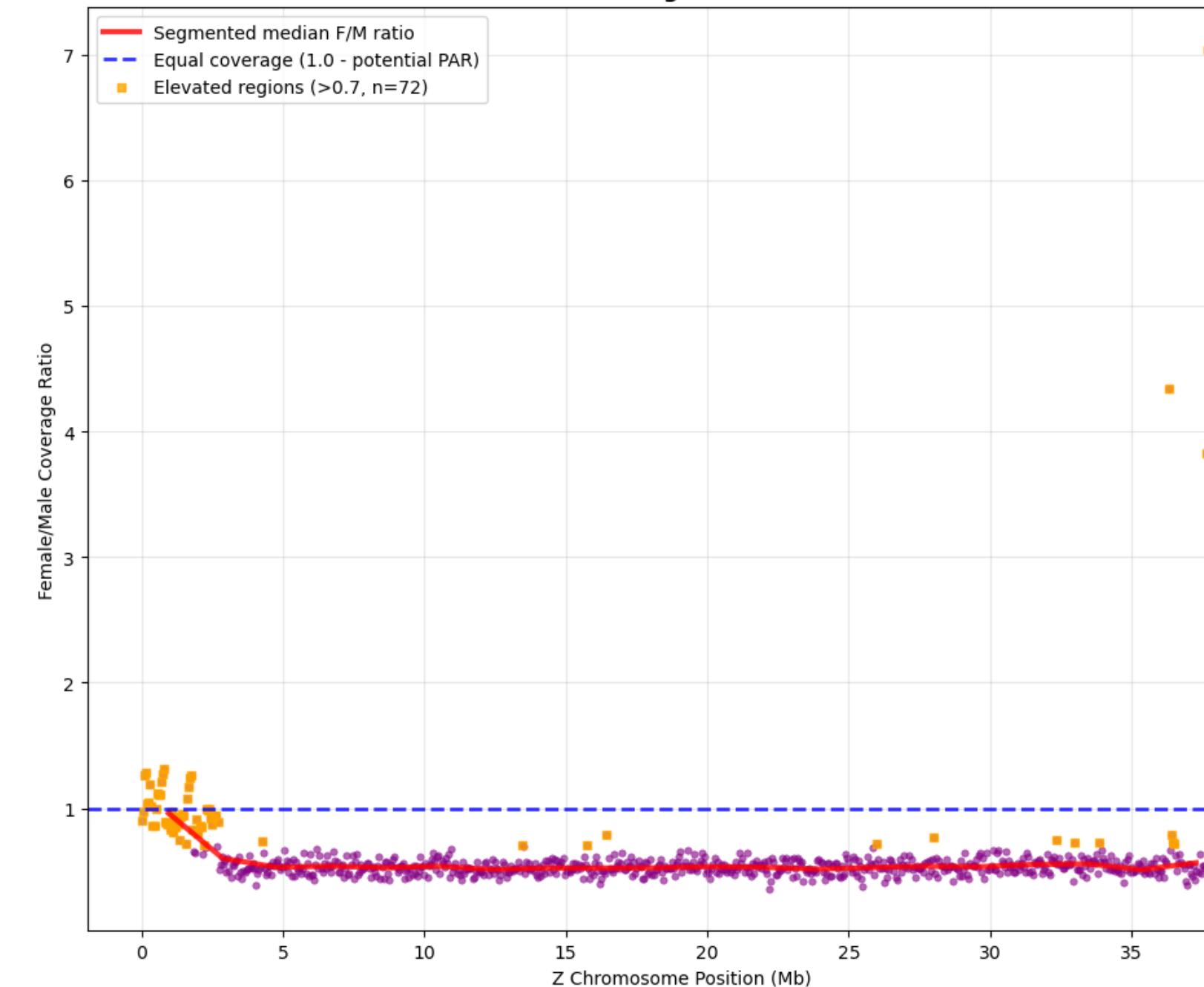


Distribution of Female/Male Coverage Ratios

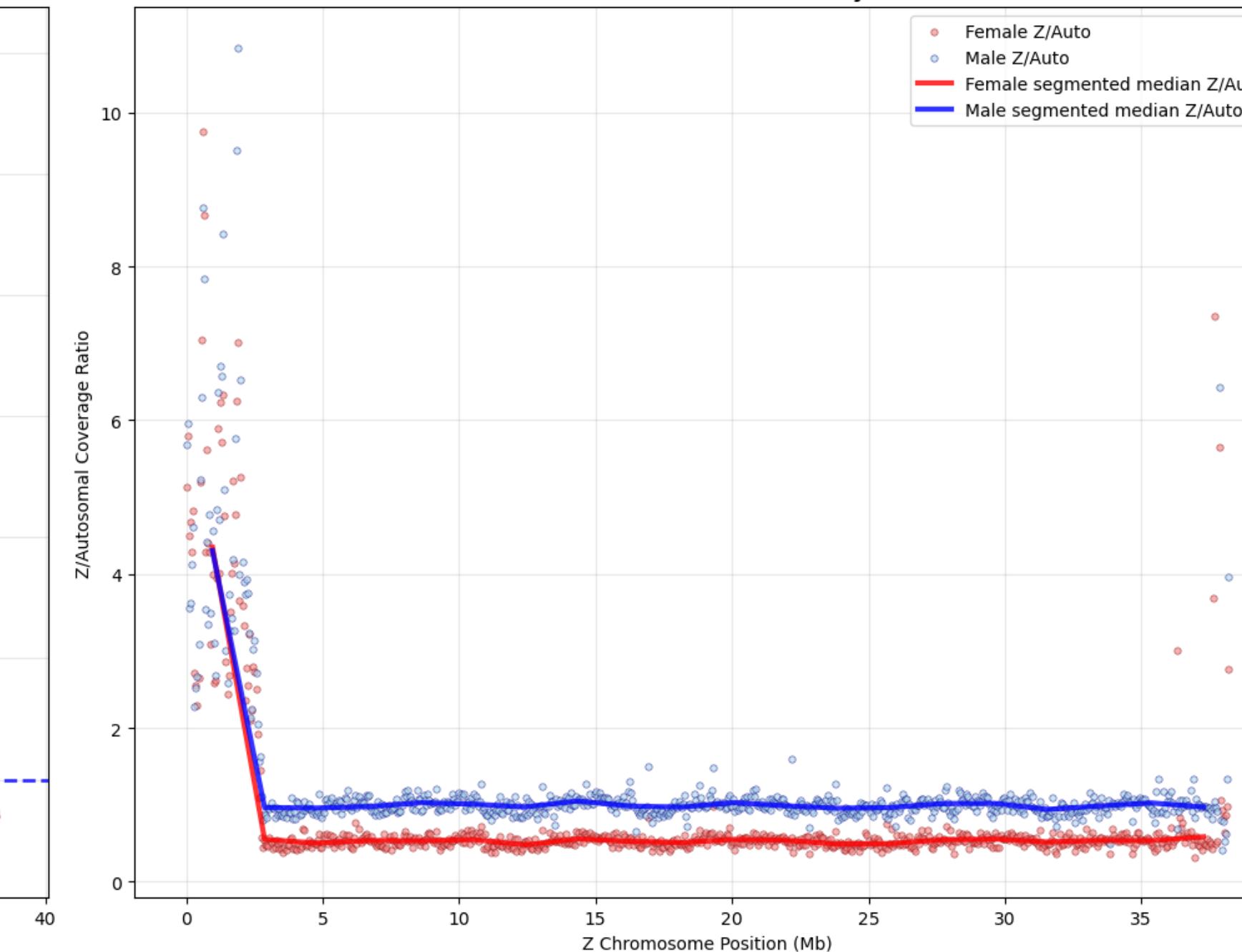


Pseudo-autosomal W

Panel A: Female/Male Coverage Ratios Across Z Chromosome

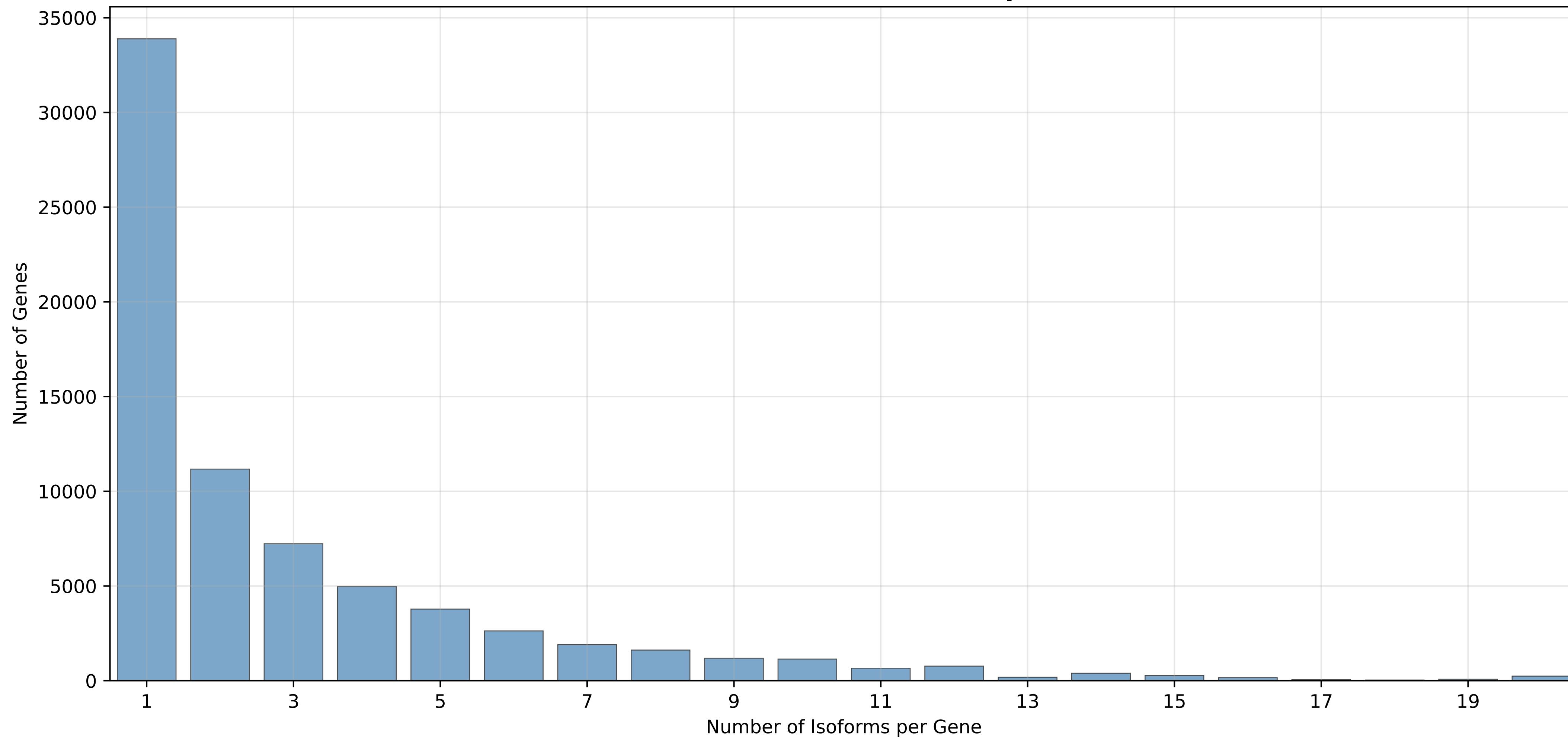


Panel B: Z/Autosomal Ratios by Sex



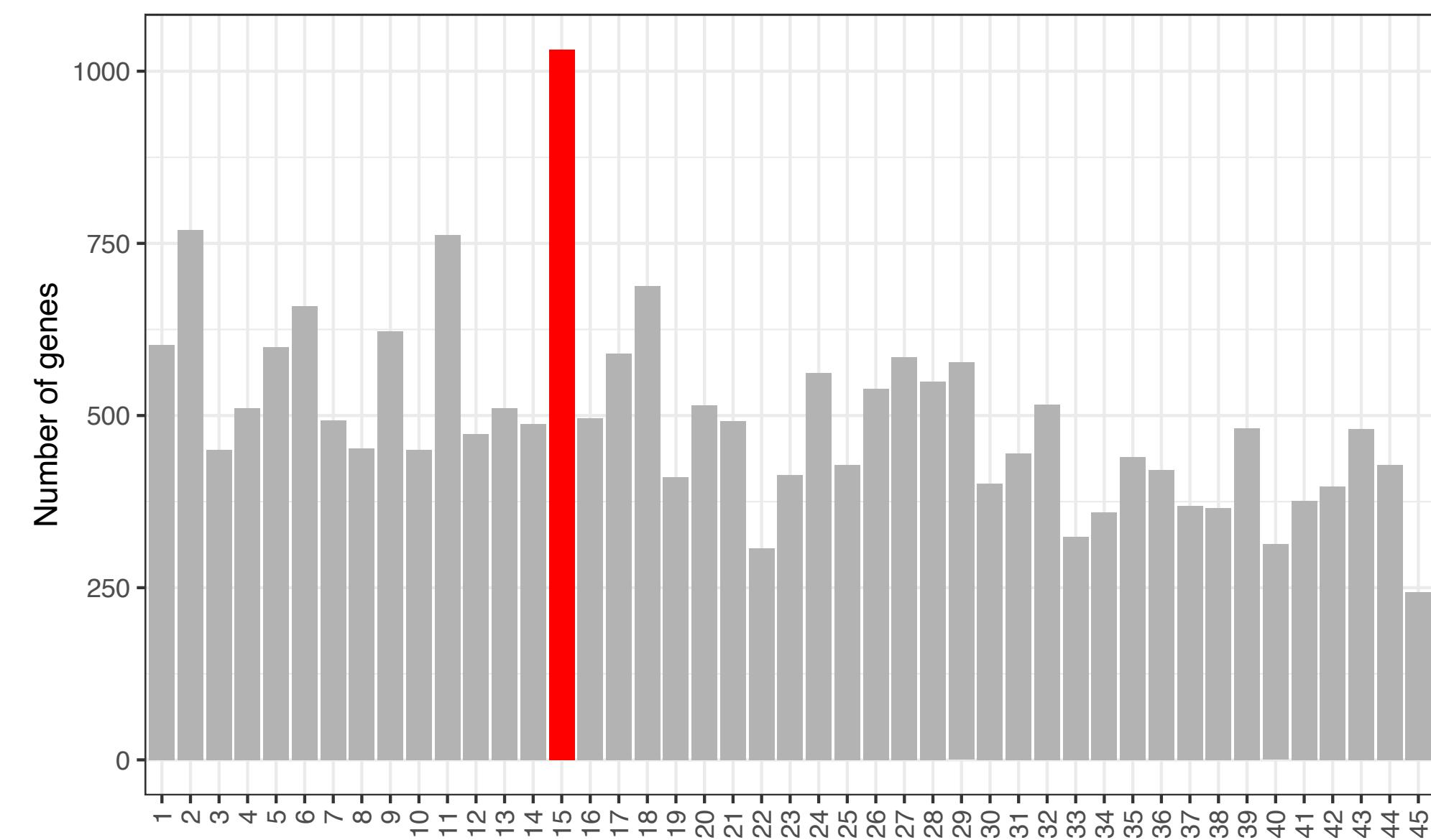
Annotation

Distribution of Isoform Counts per Gene

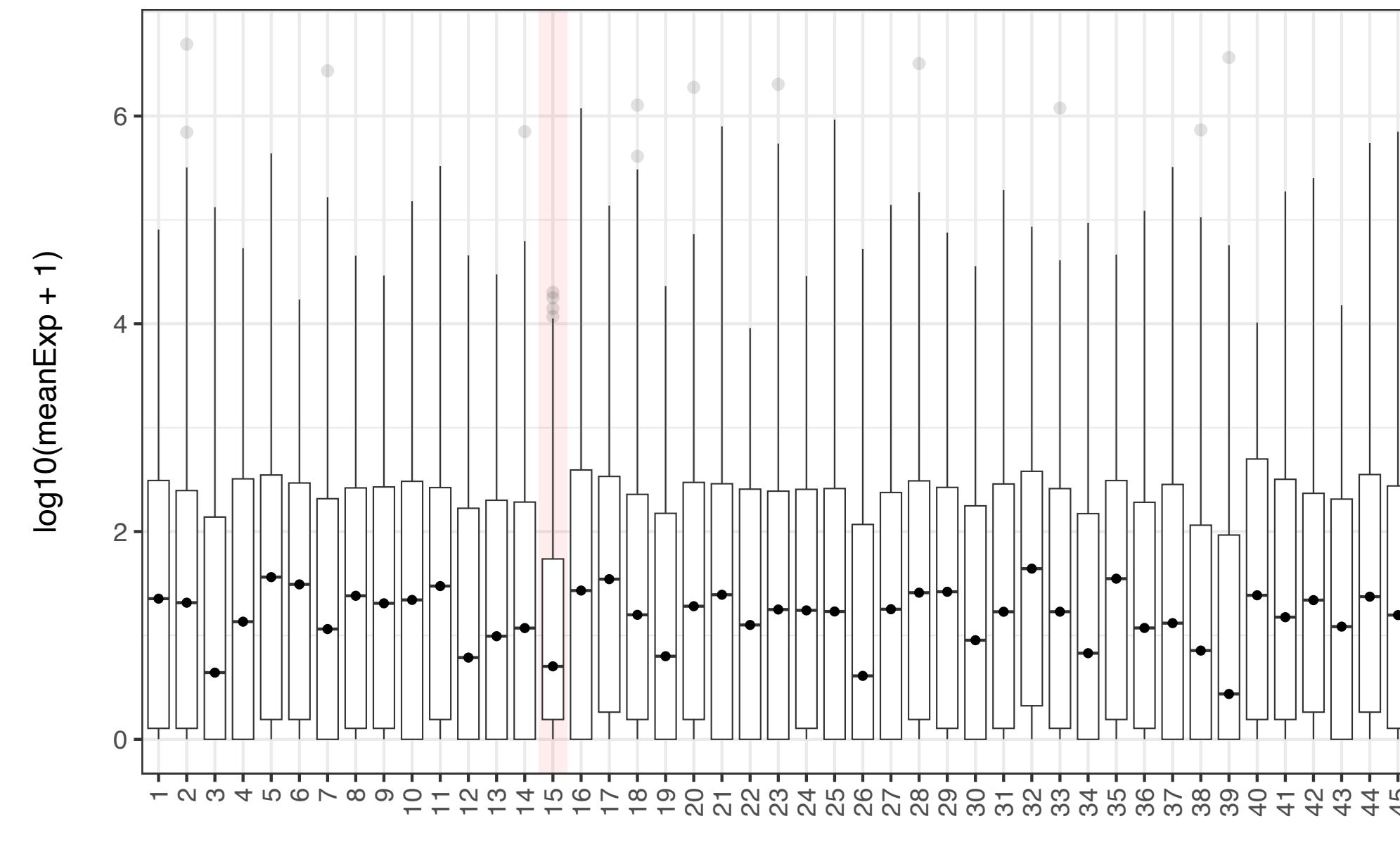


Why is 15 so F'ed

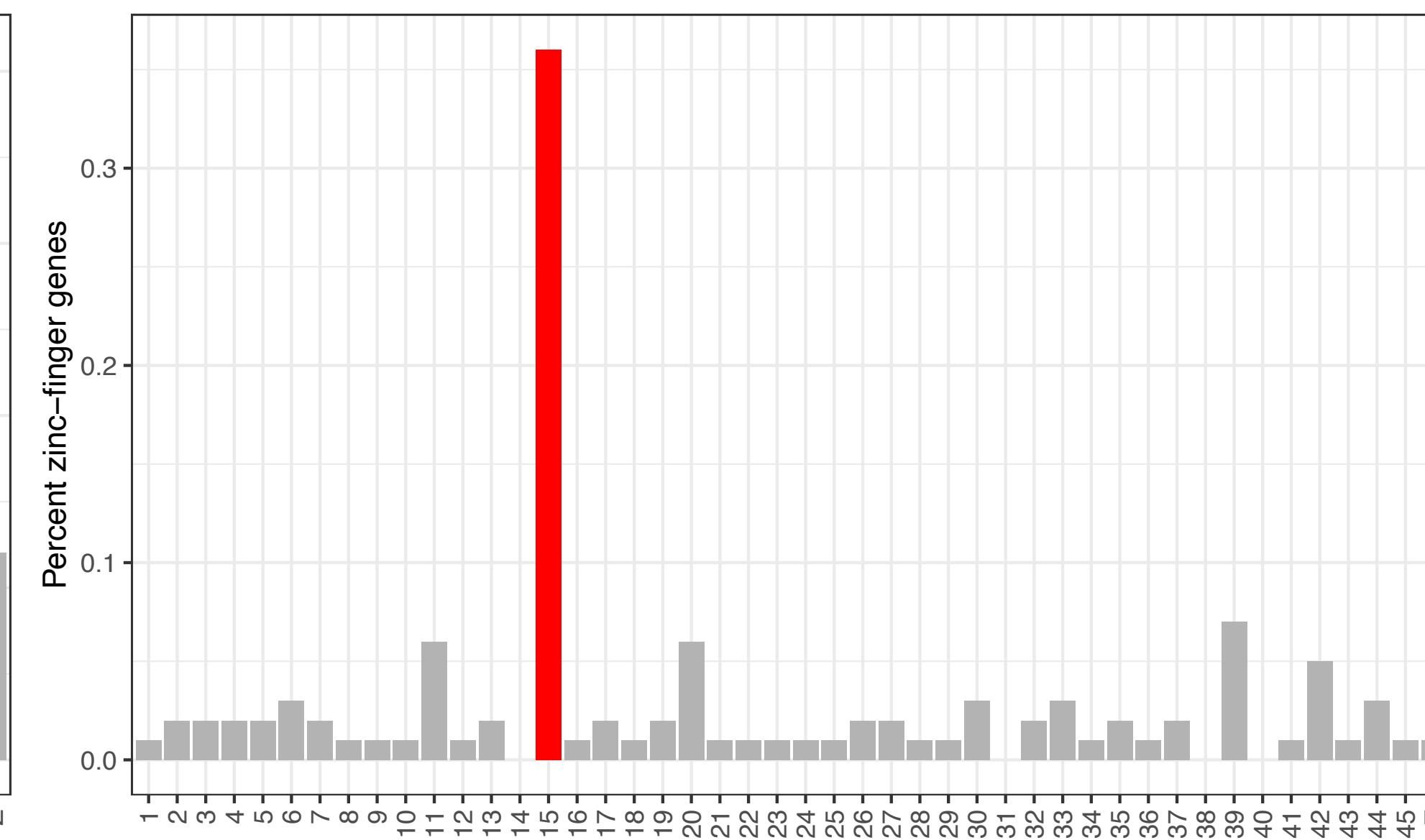
A) Gene count per chromosome



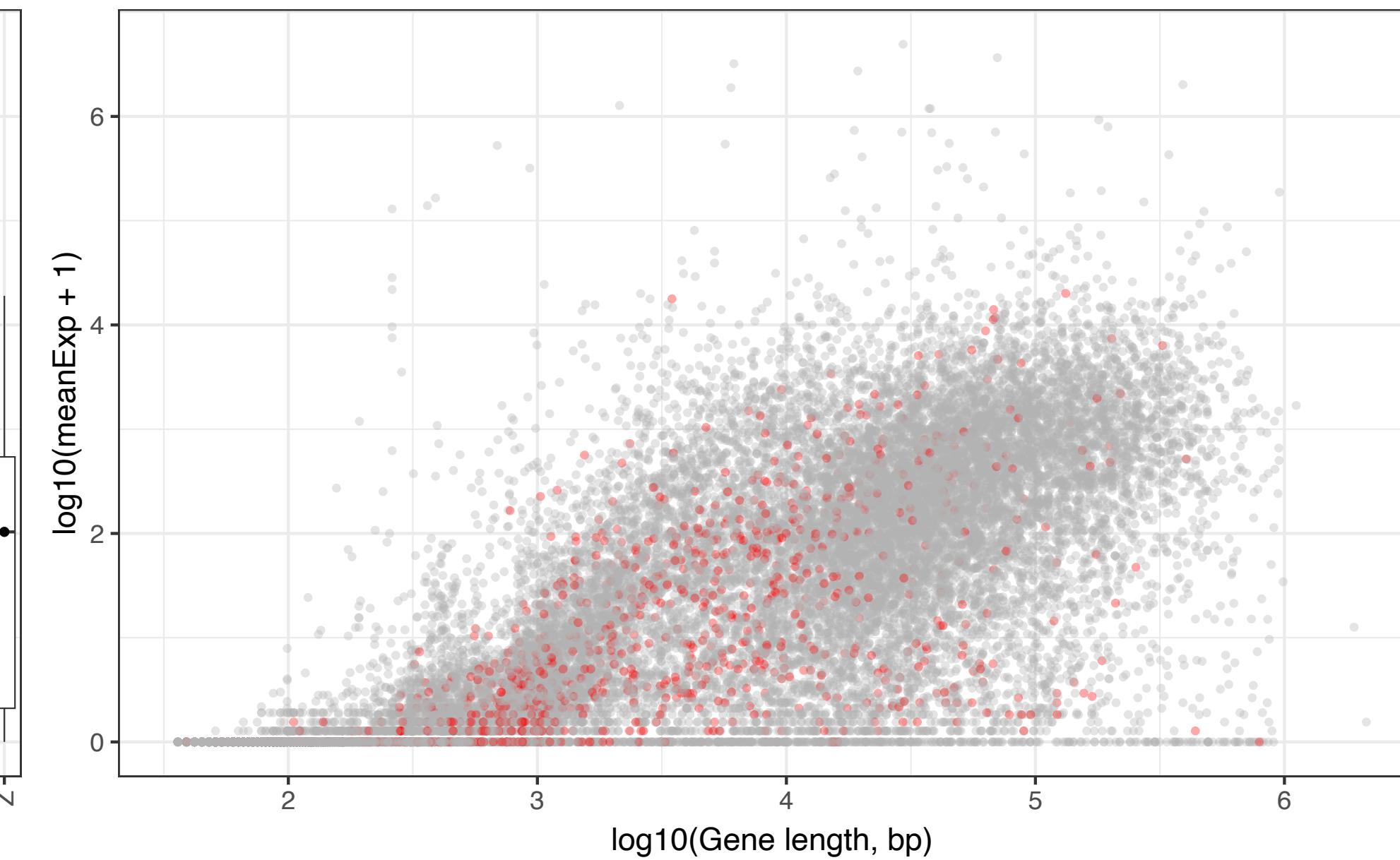
B) Expression distribution per chromosome



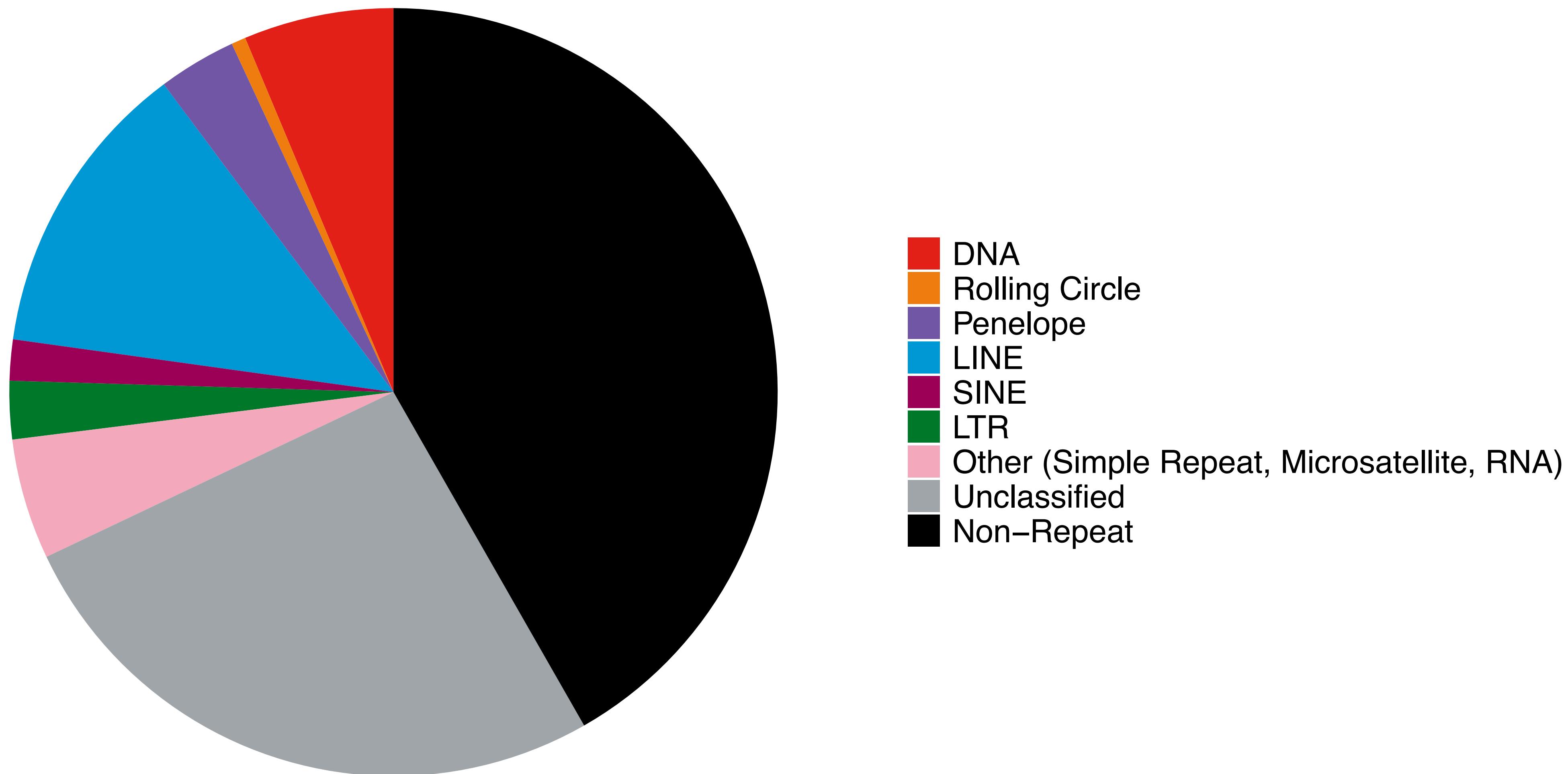
D) Zinc-finger enrichment



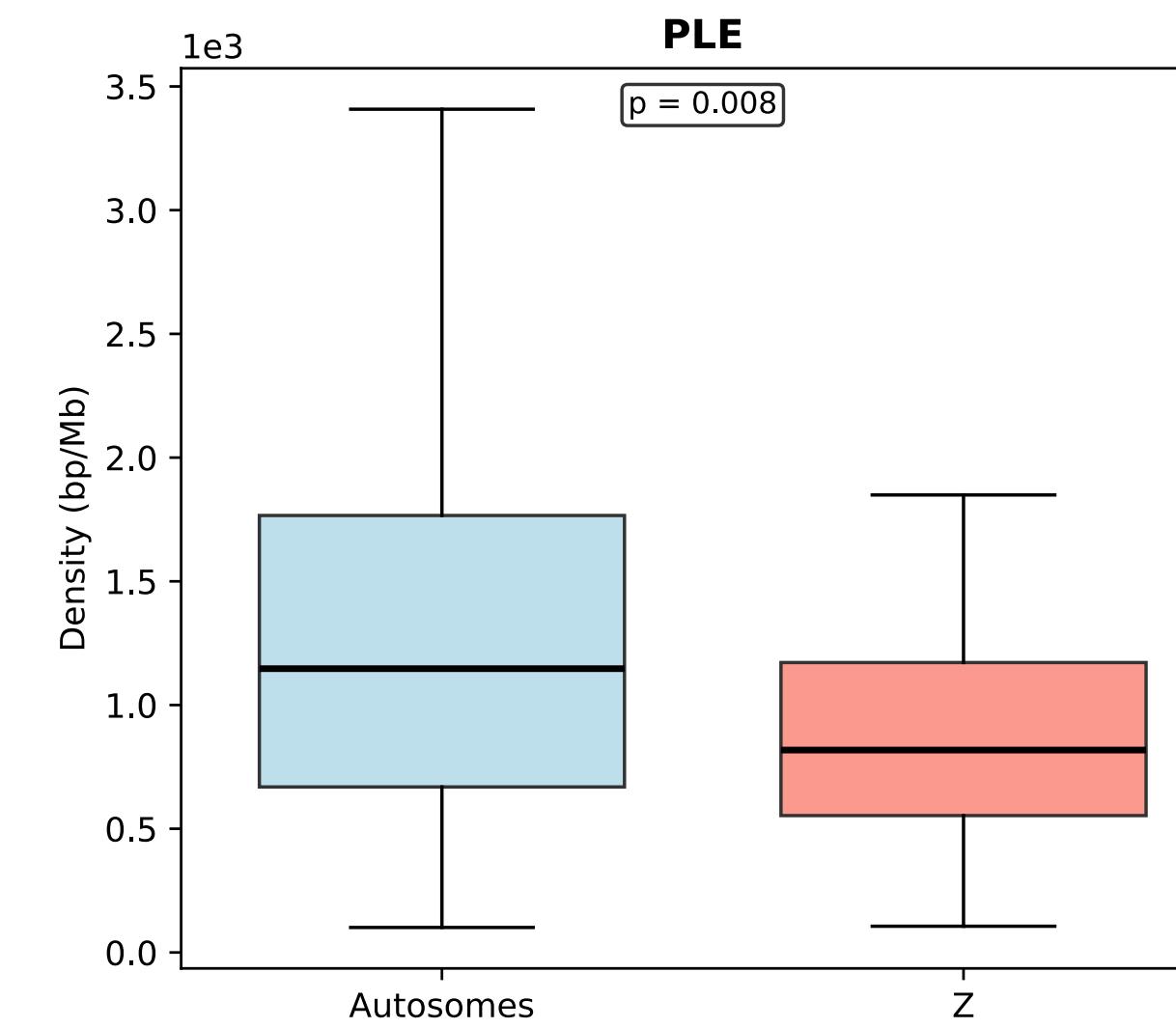
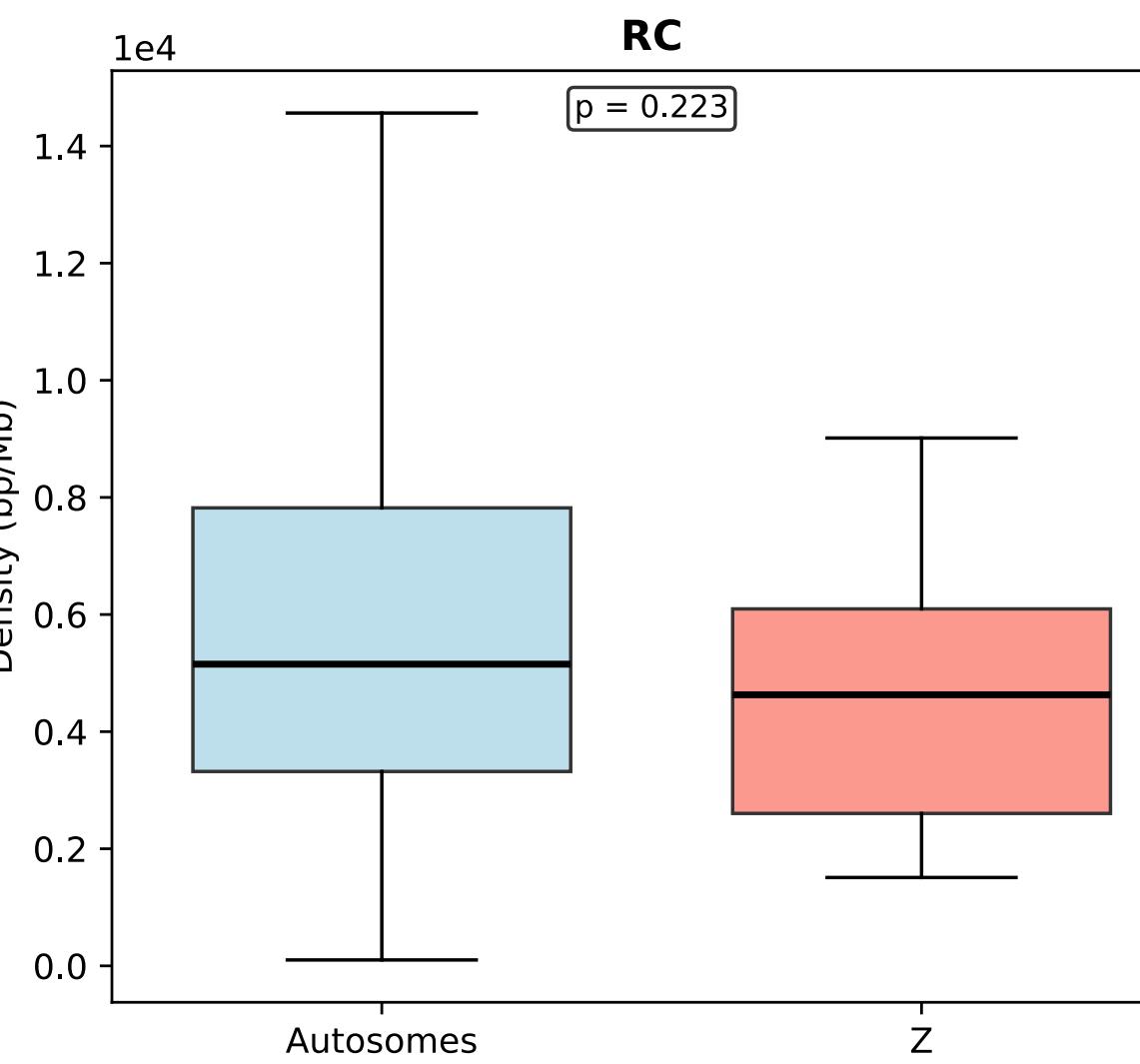
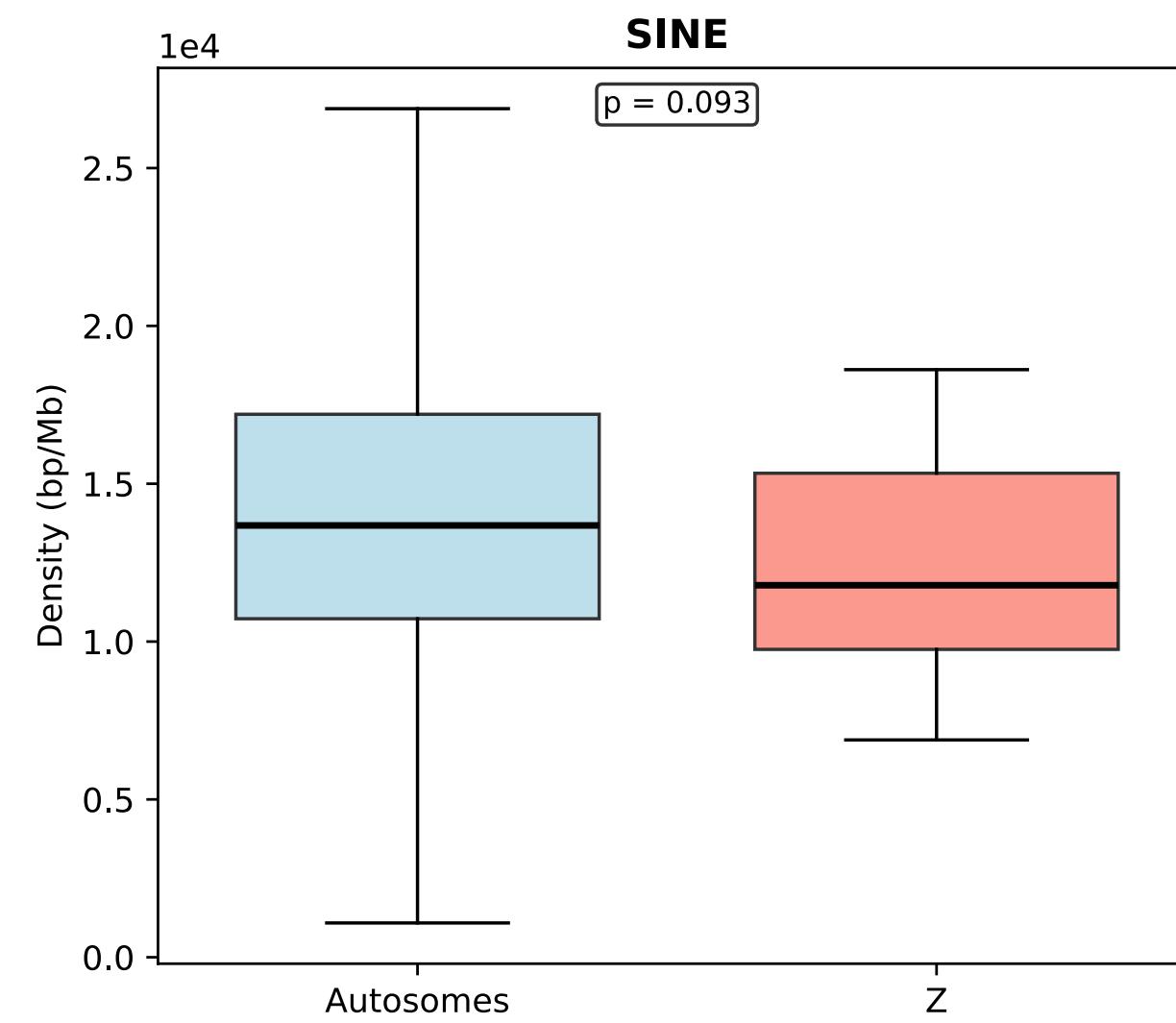
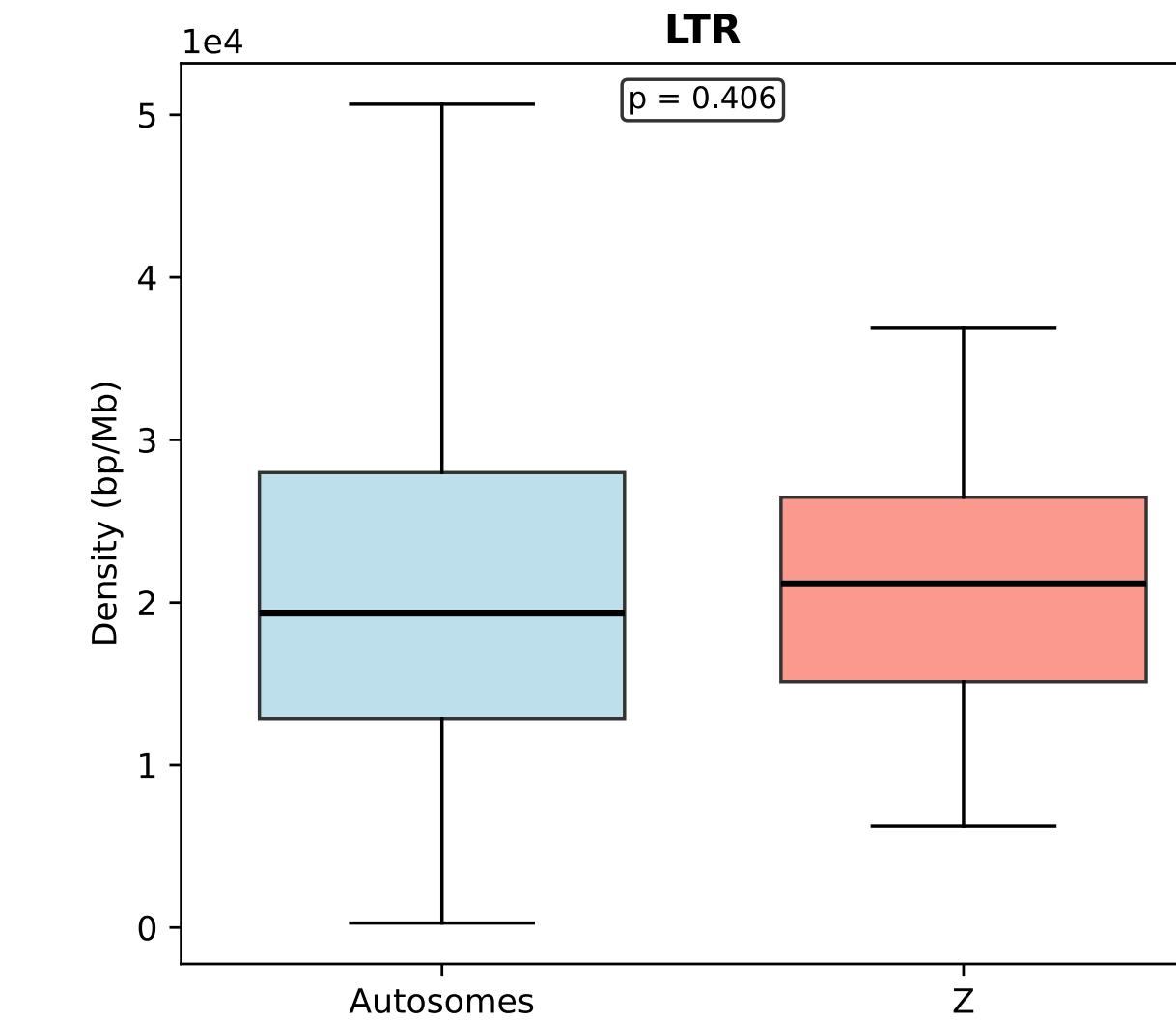
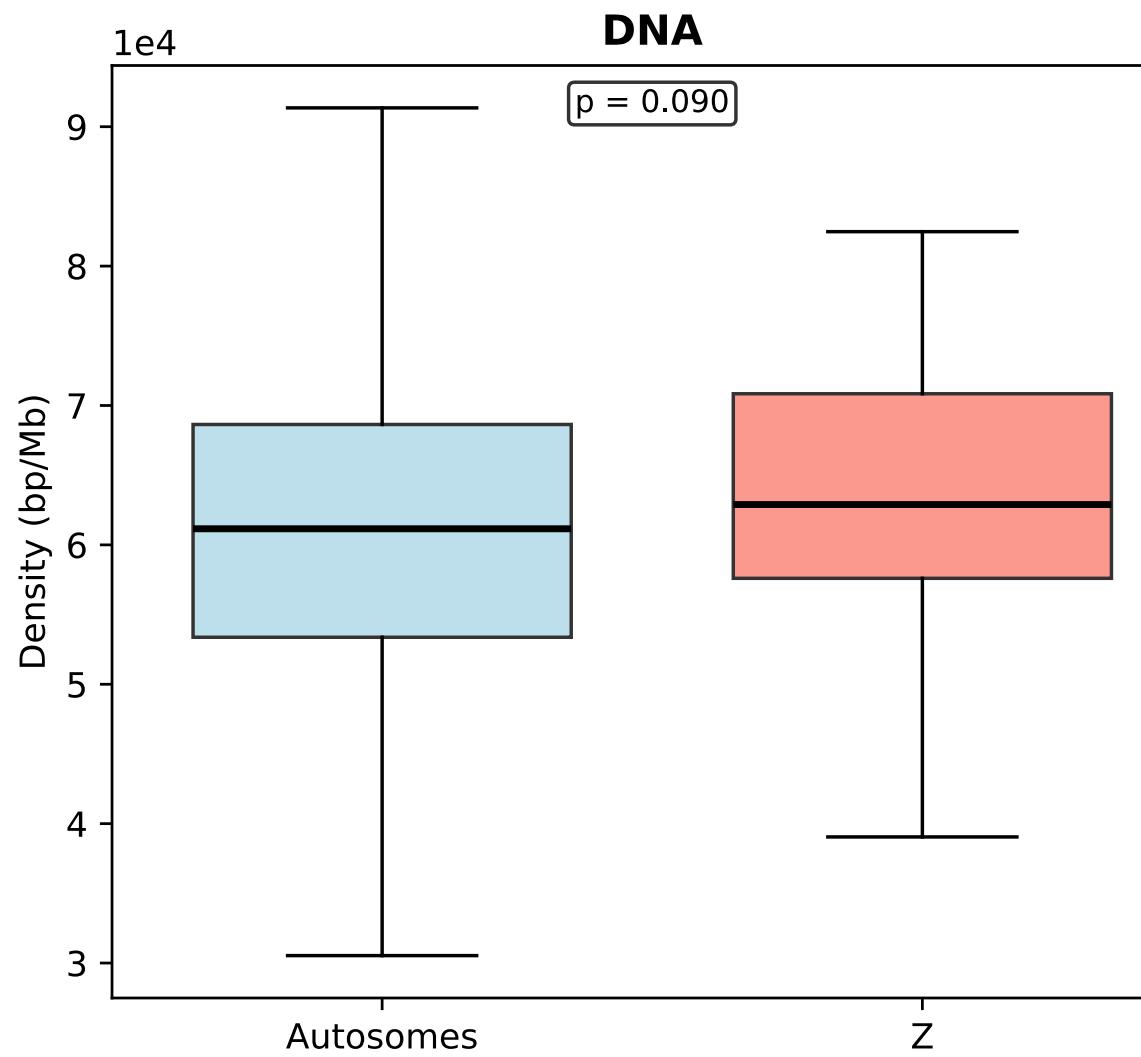
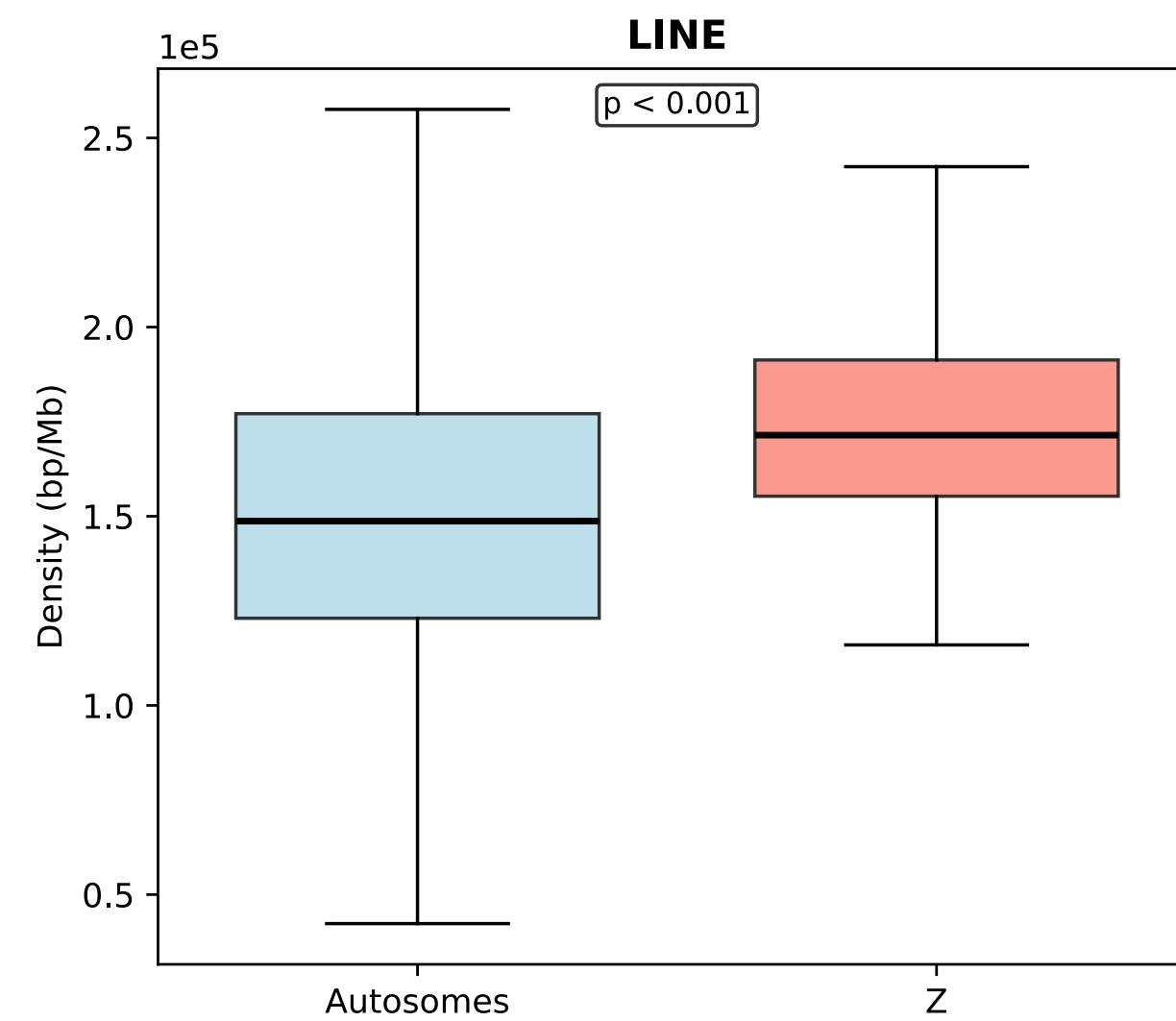
C) Gene length vs expression (chr15 highlighted)



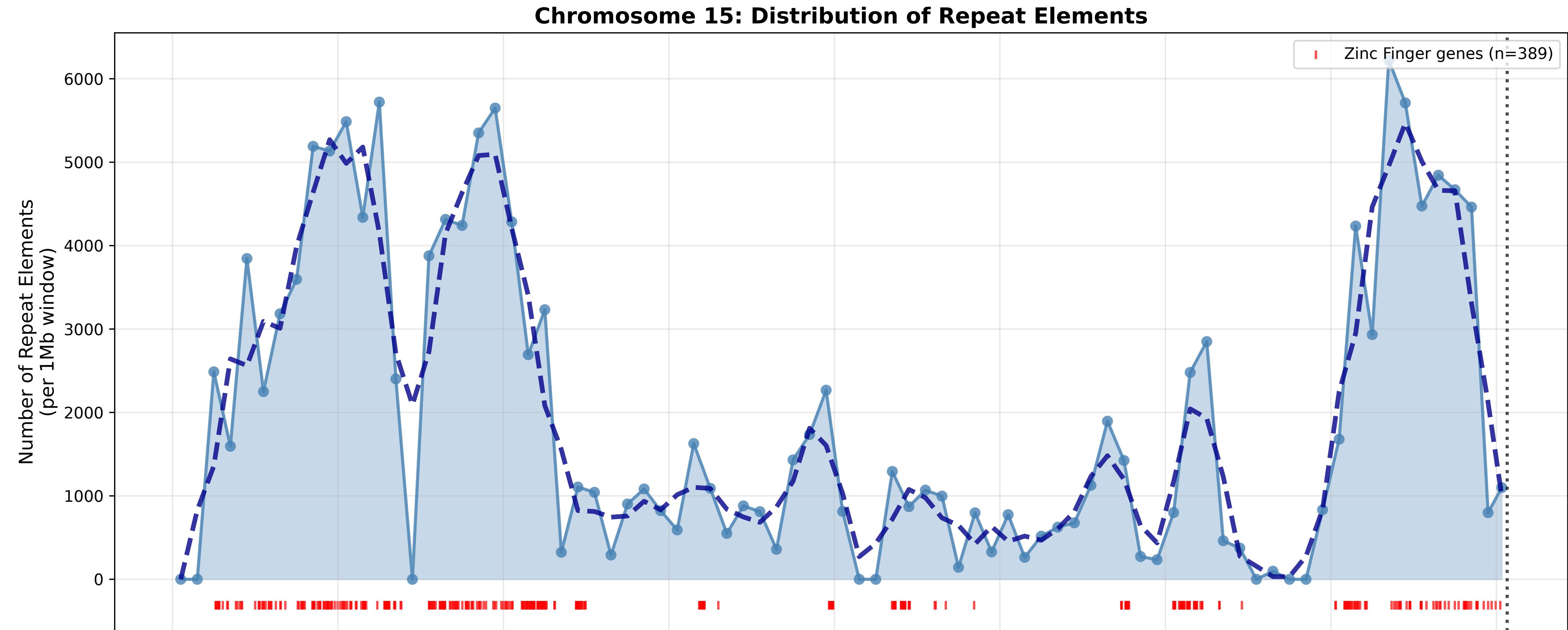
Repeats



Repeat Element Density by Type (Non-zero windows only):\nZ chromosome vs Autosomes

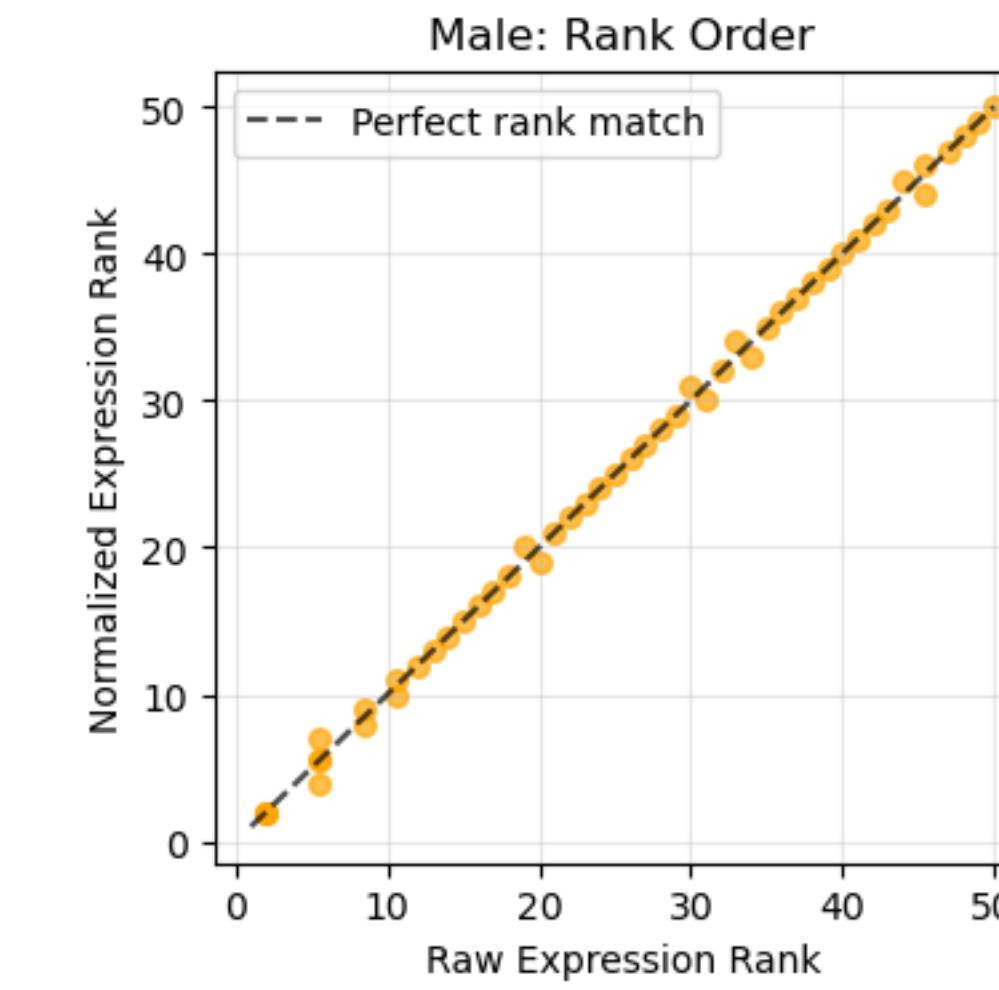
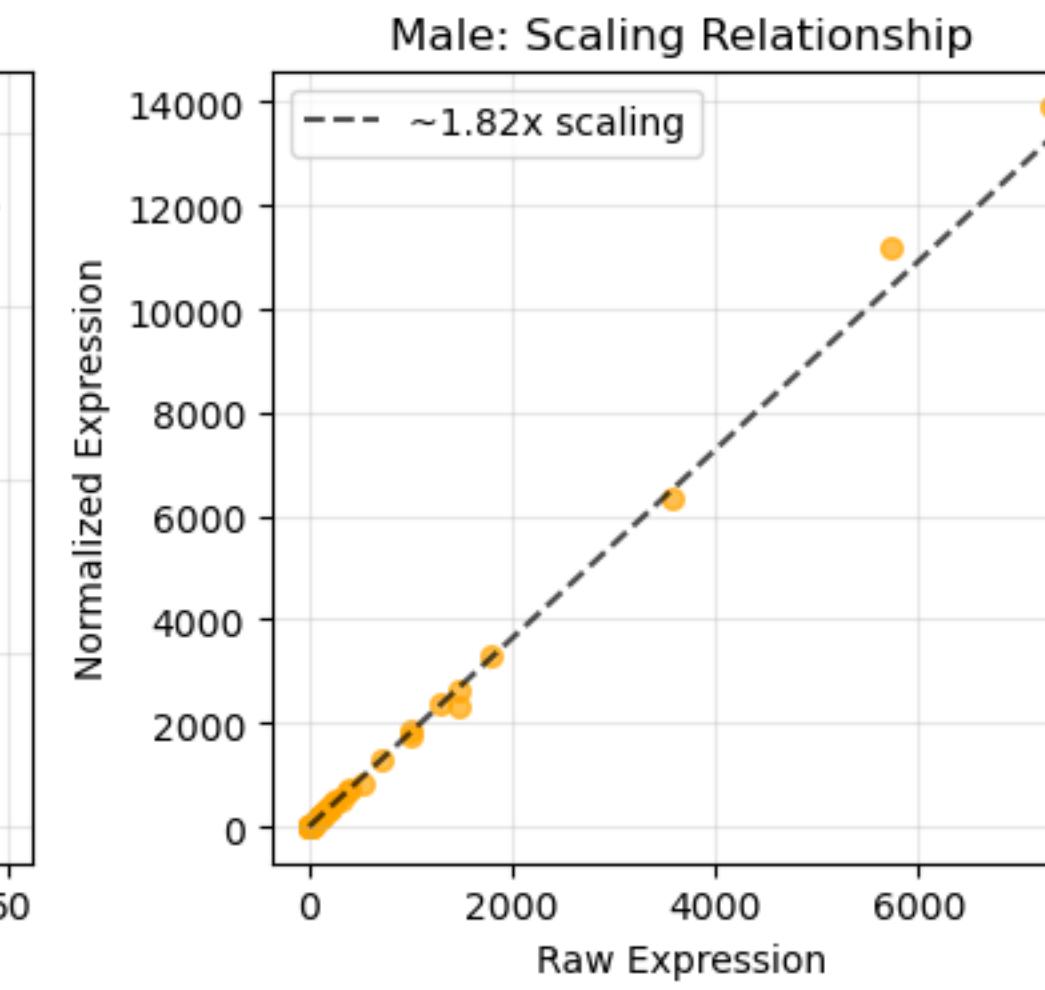
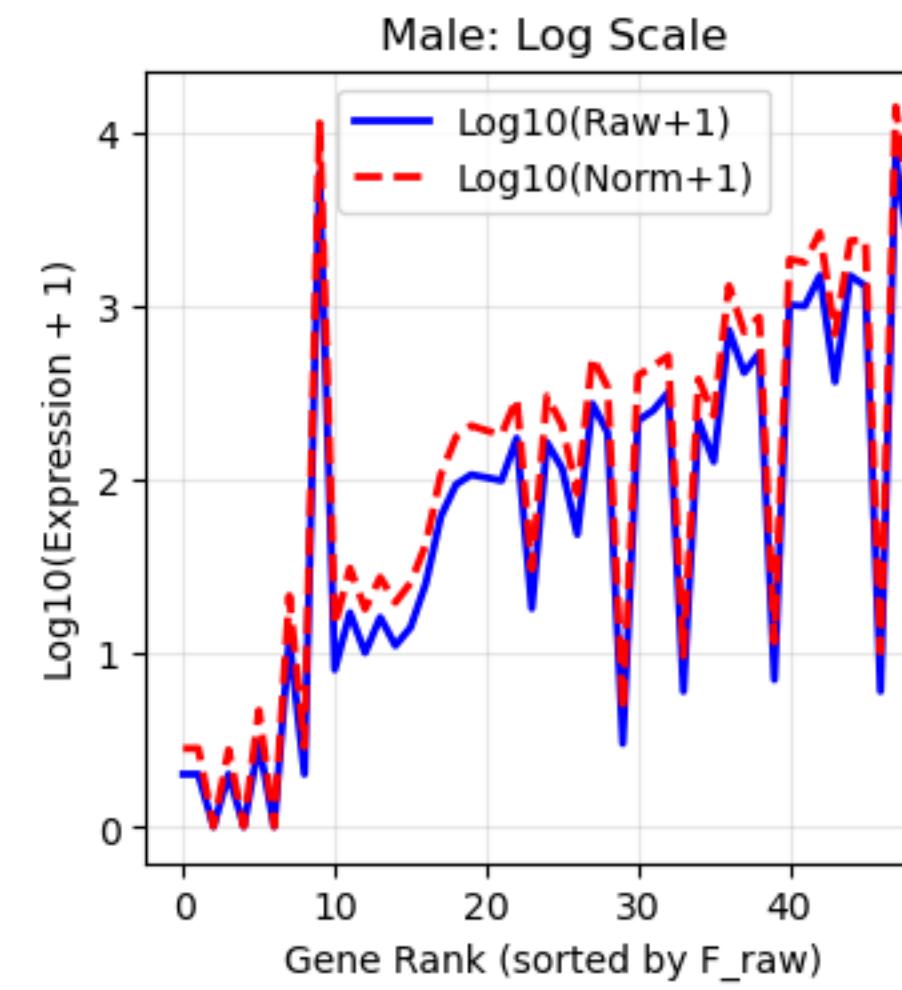
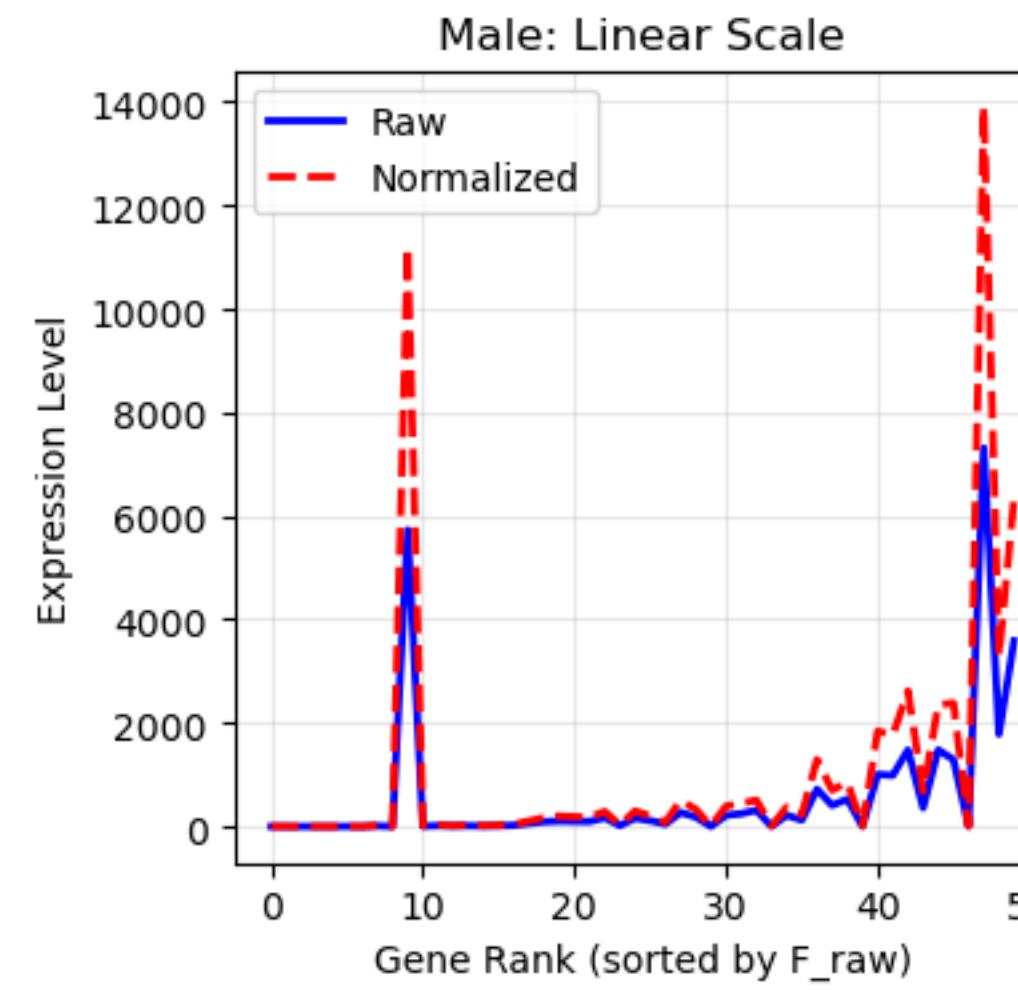
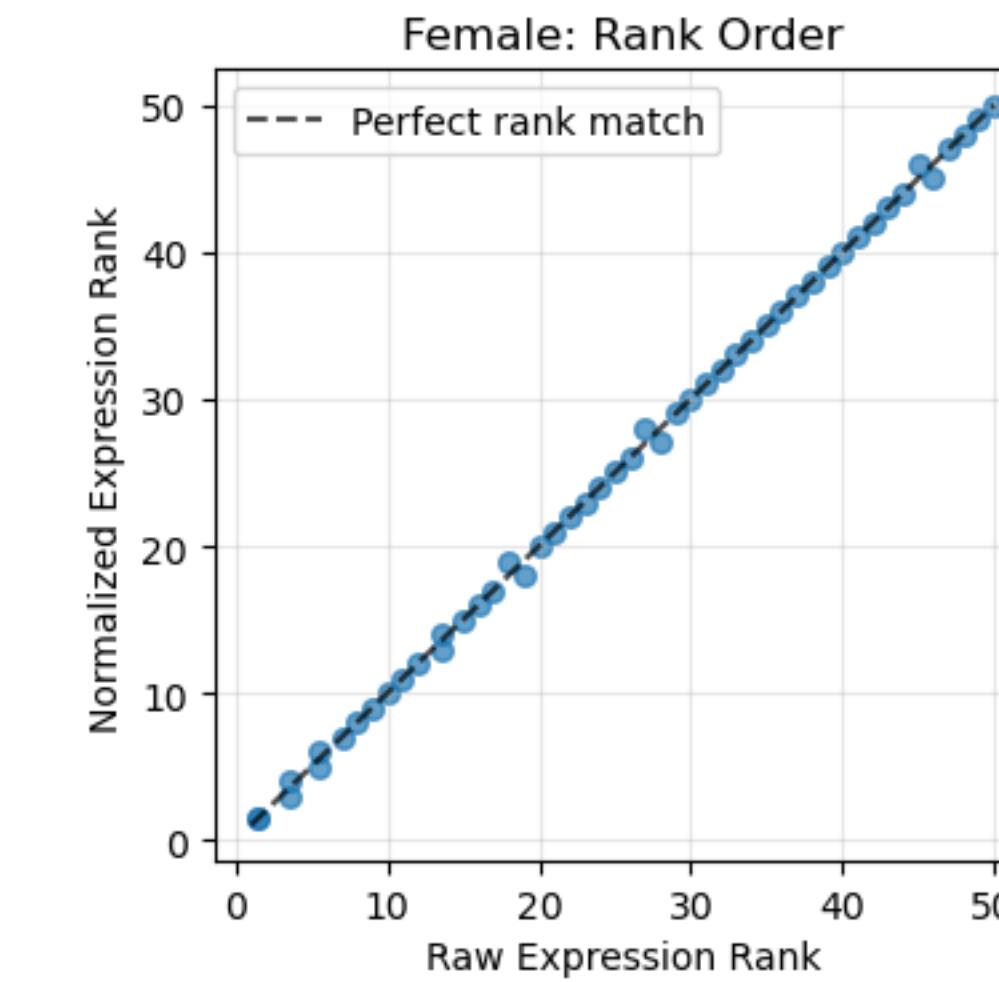
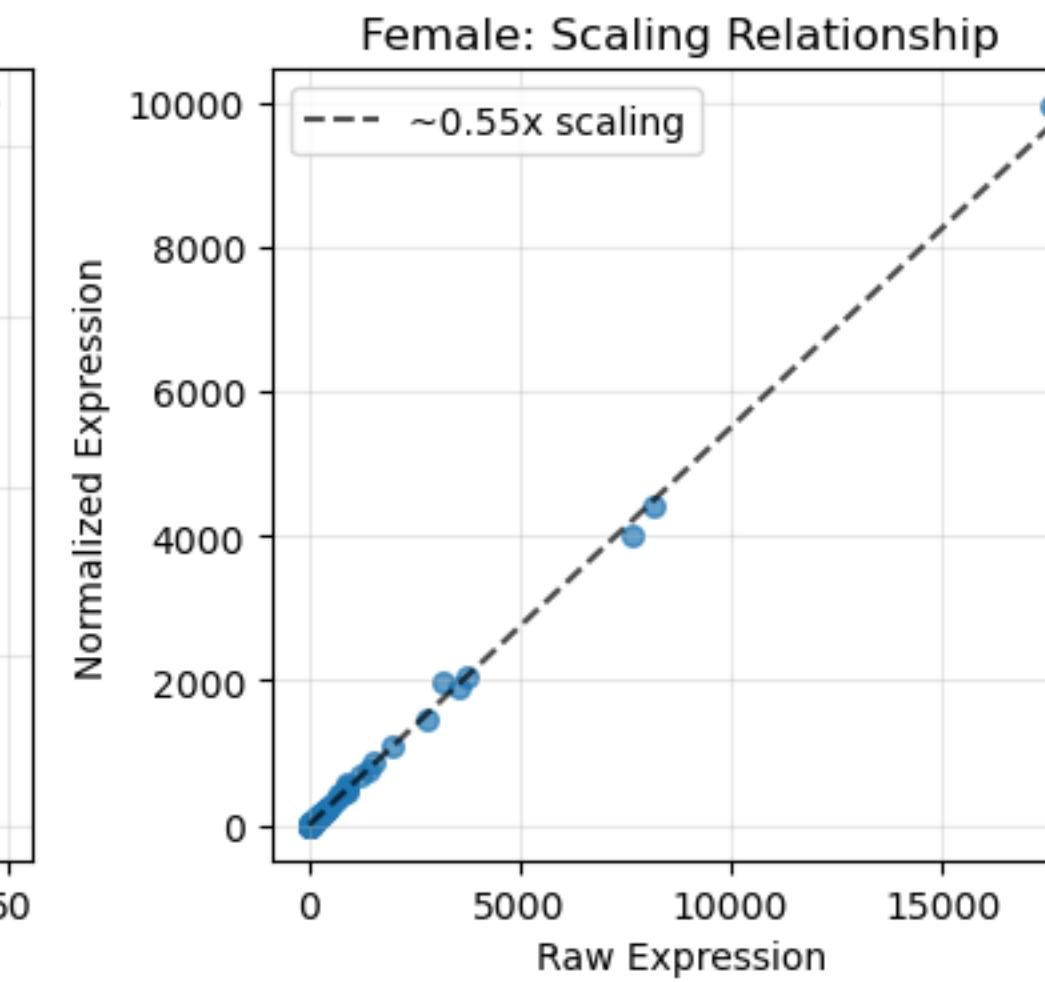
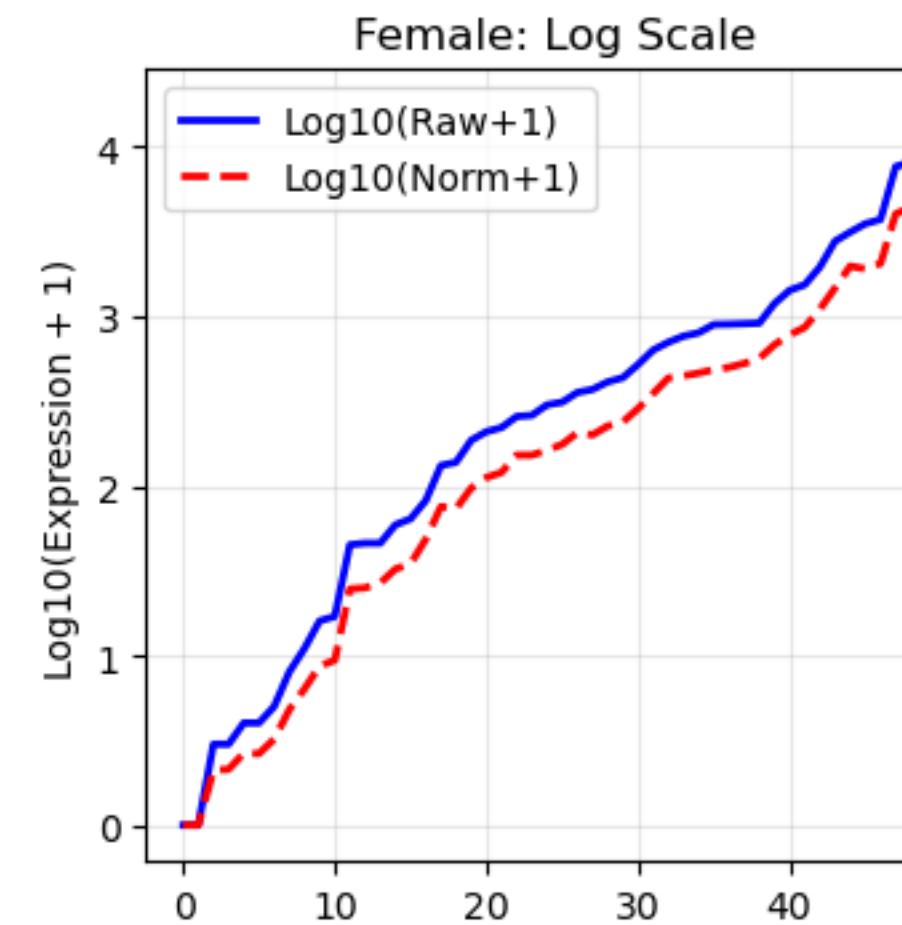
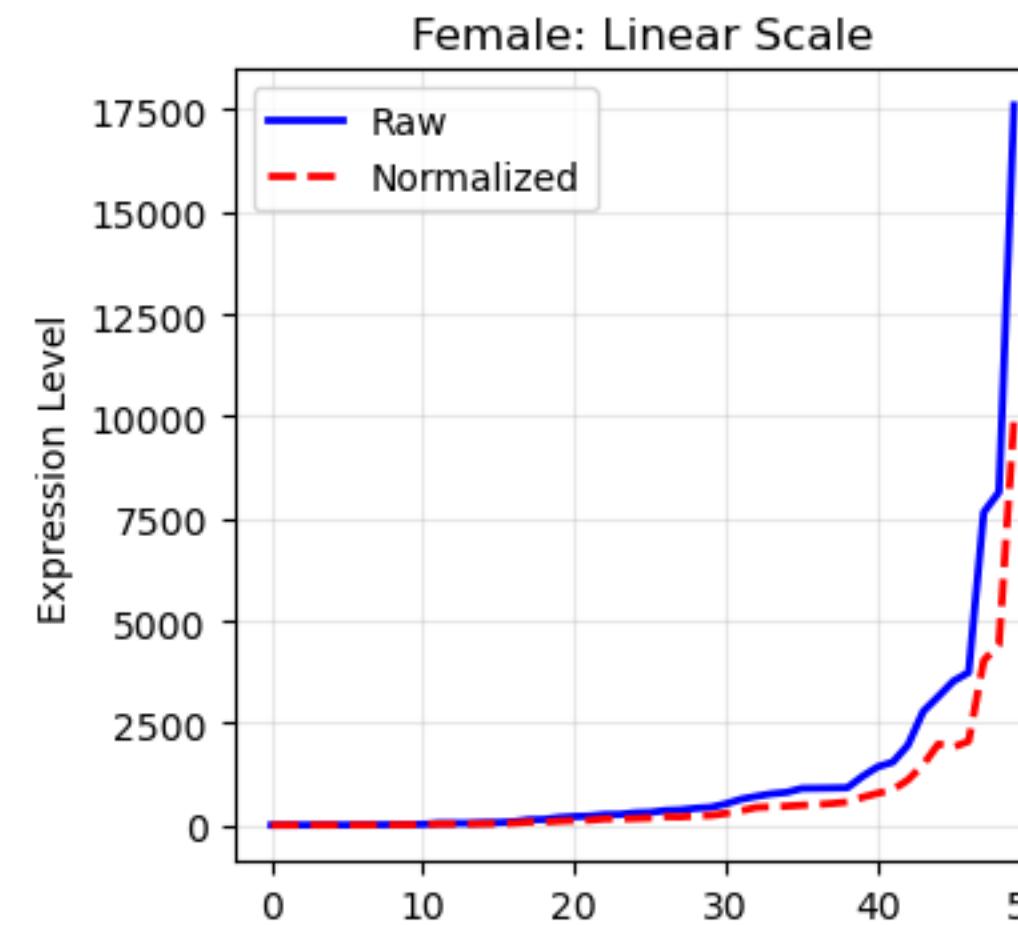


Are ZnFn expansion correlated w/ repeats ... yes, TE_DNA

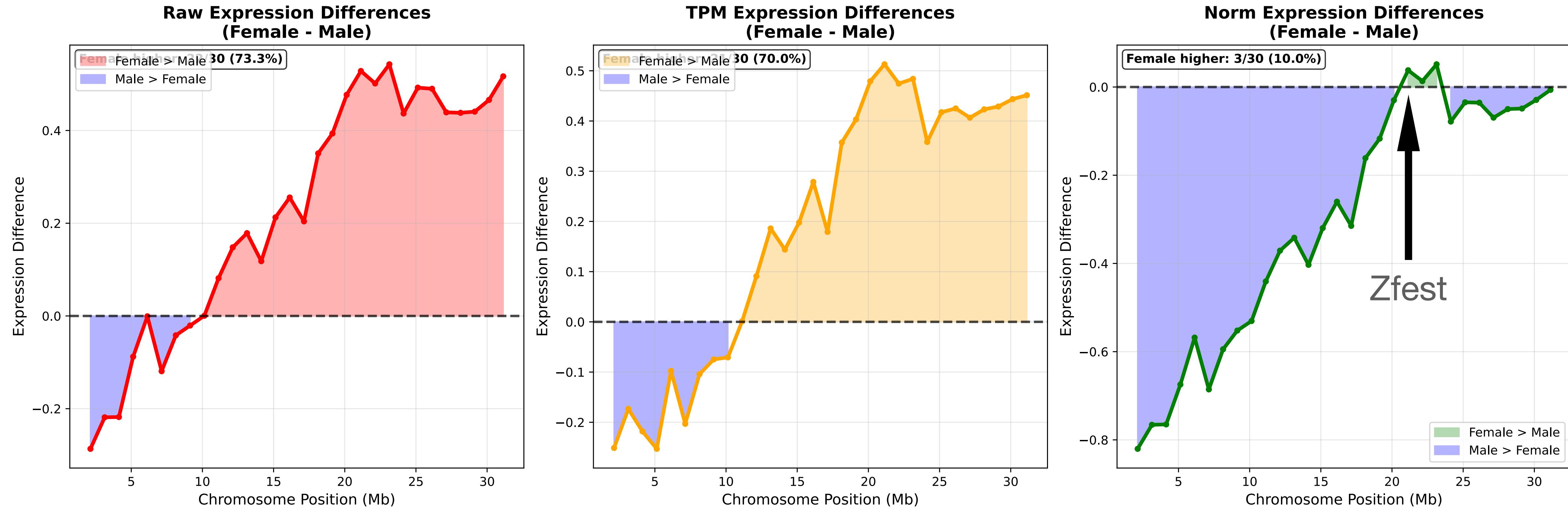


Expression

Before/After normalization



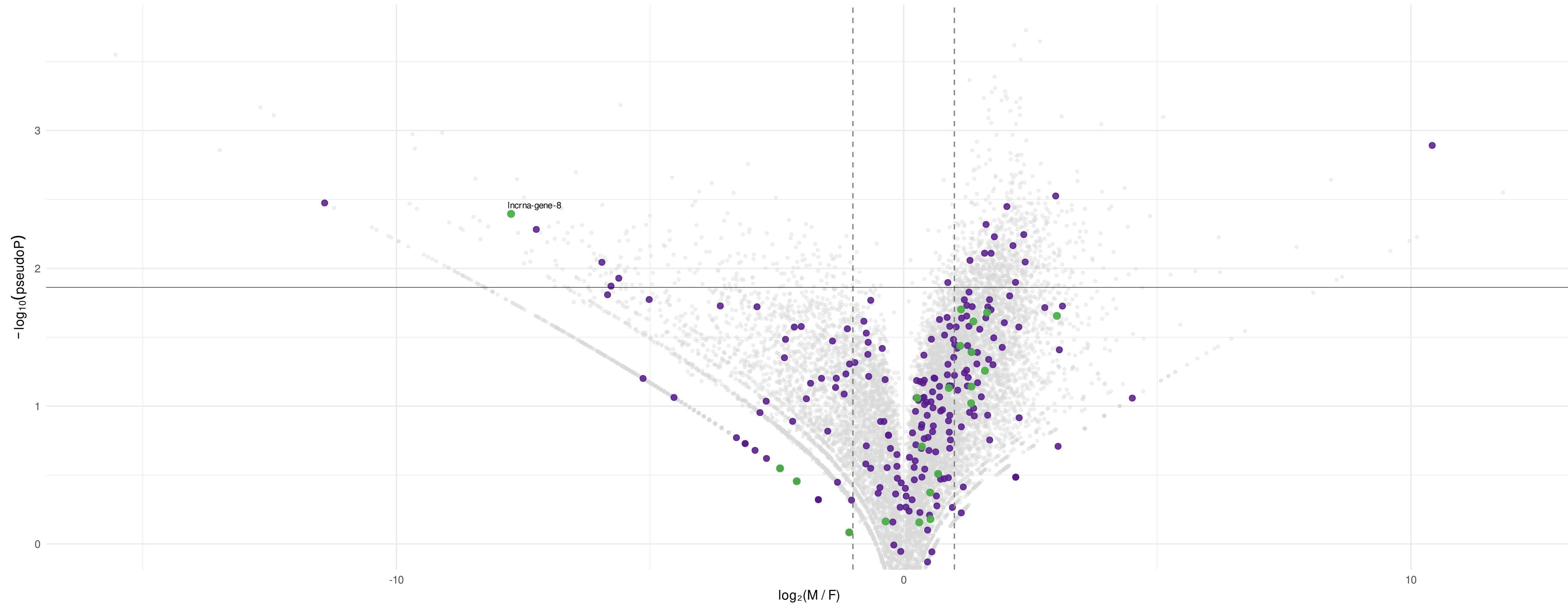
Comparing expression quantification methods



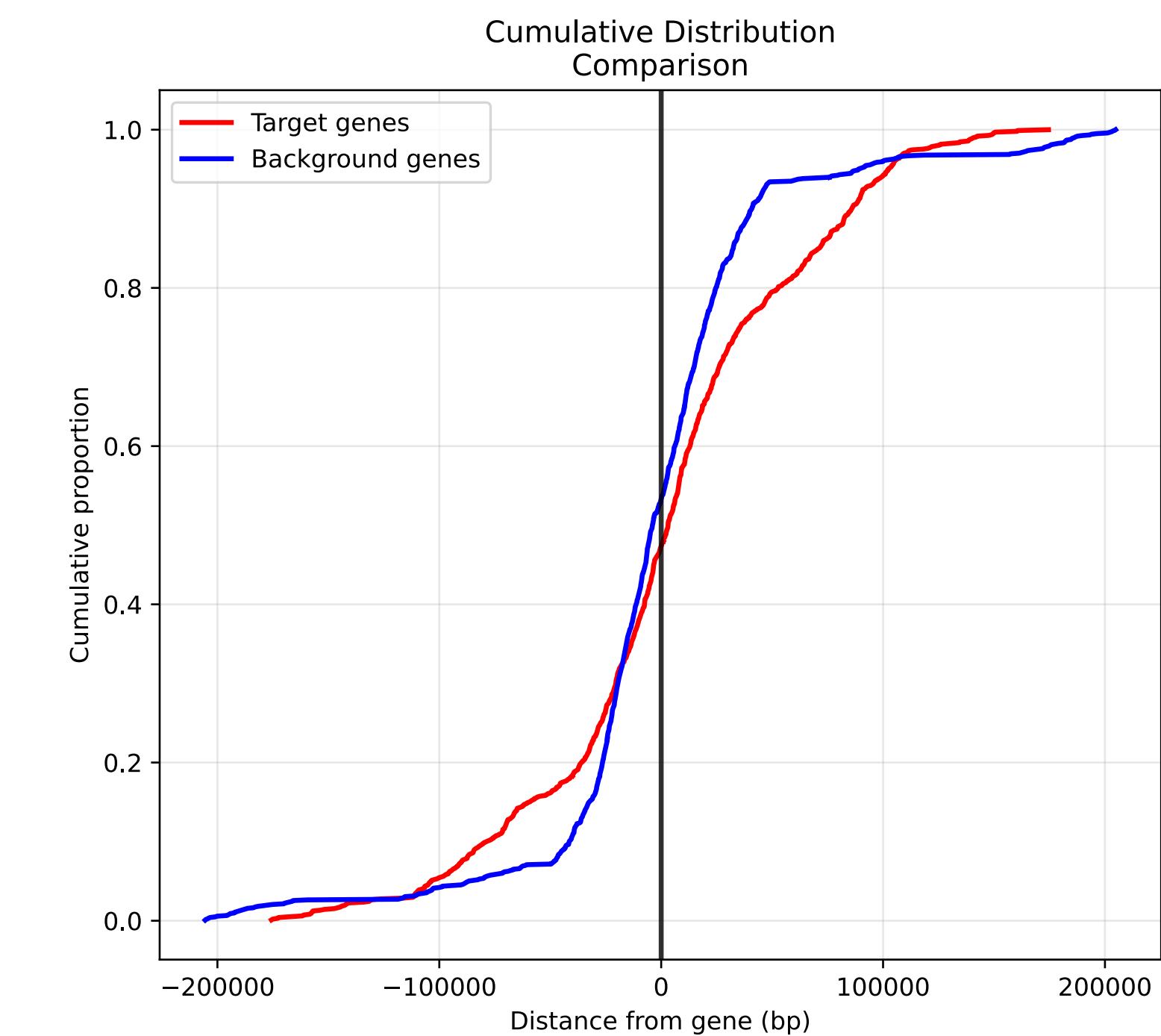
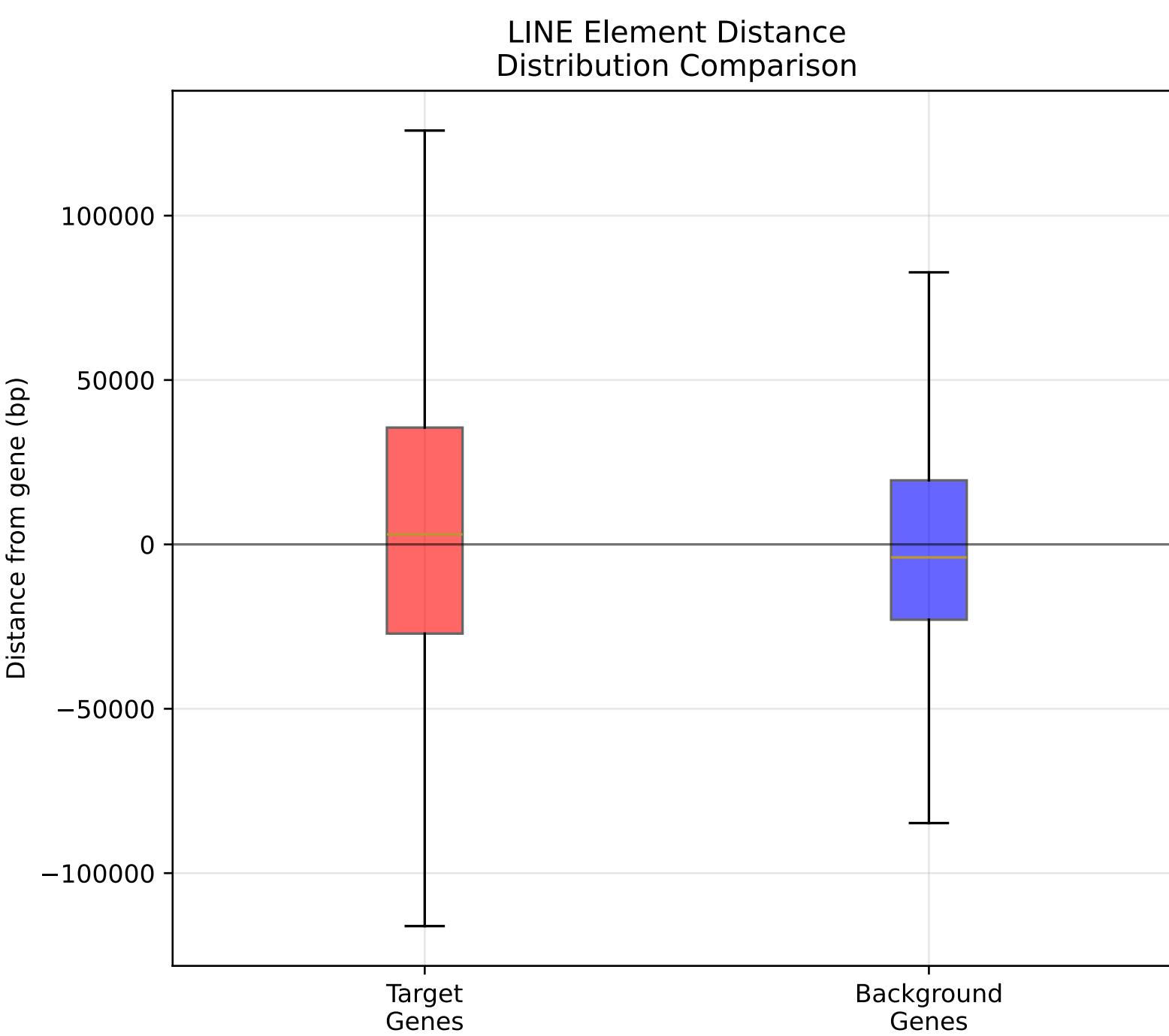
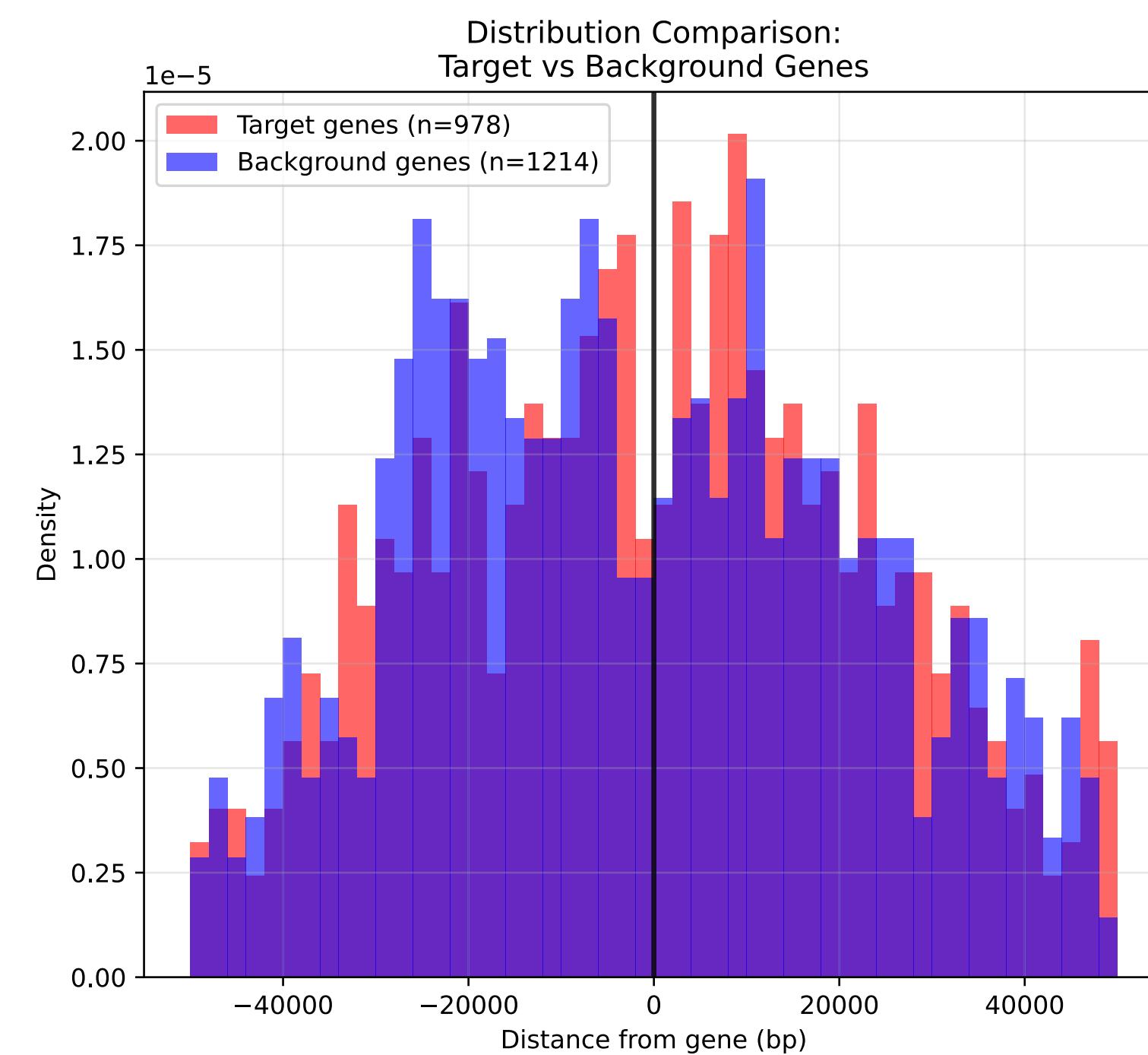
Volcano plot of diff genes

<-F M->

Volcano: Z highlighted; lncRNA-Zlinked labeled
Bold line = pseudoP ≤ 0.014

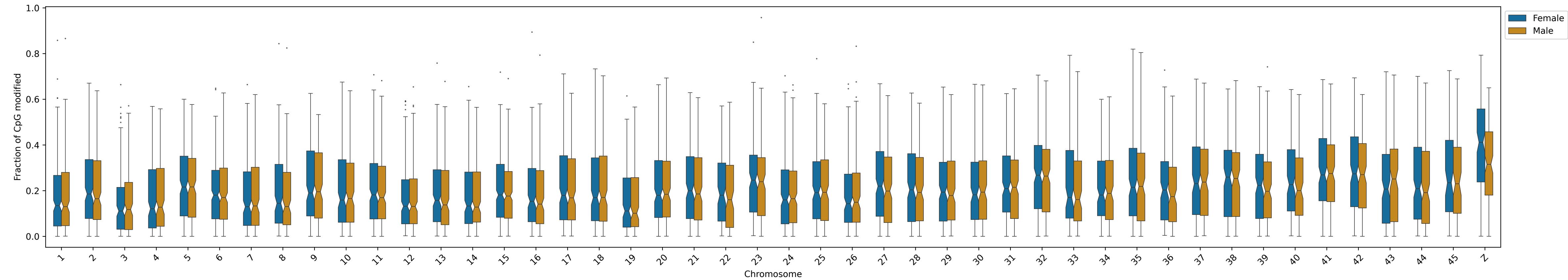


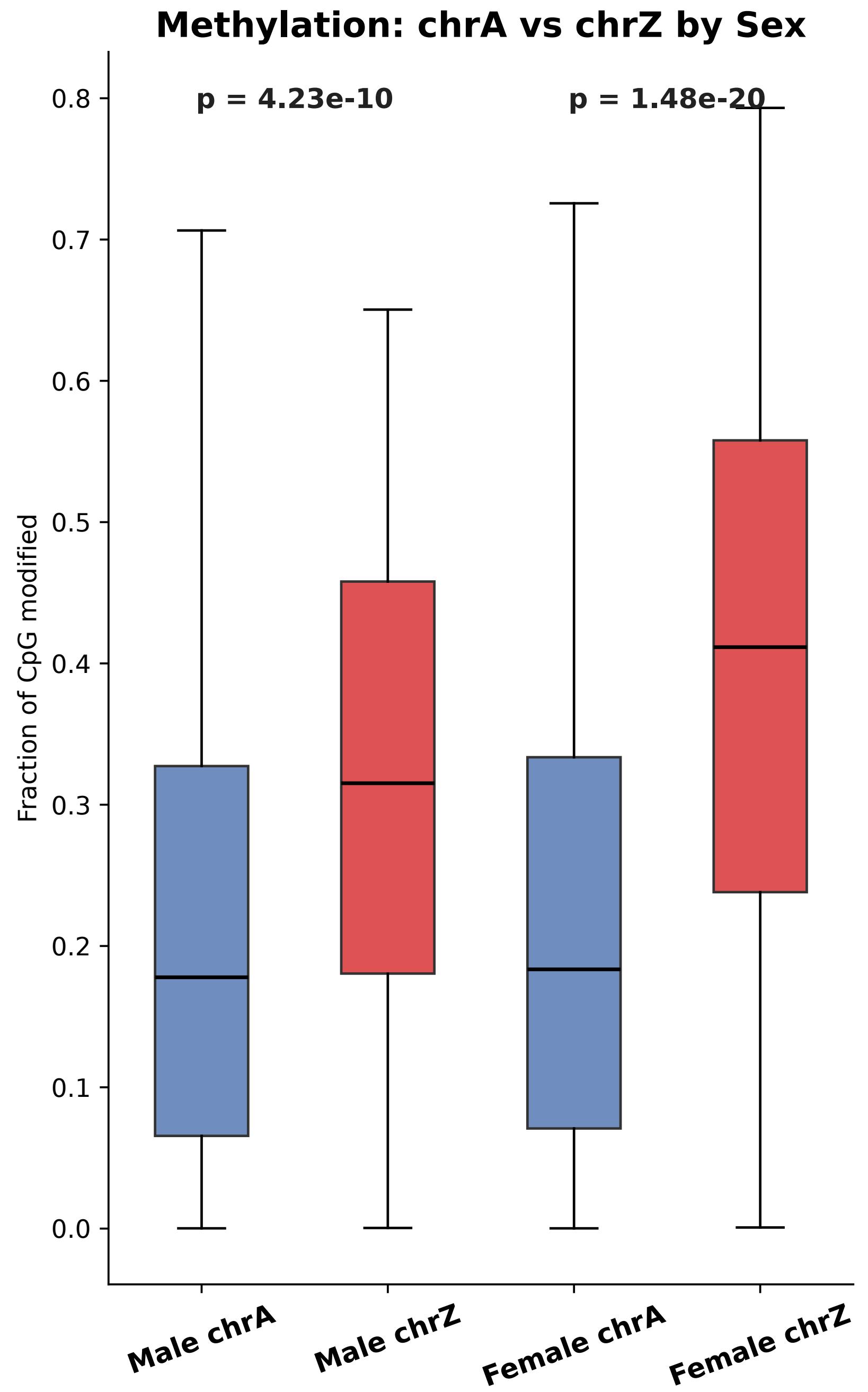
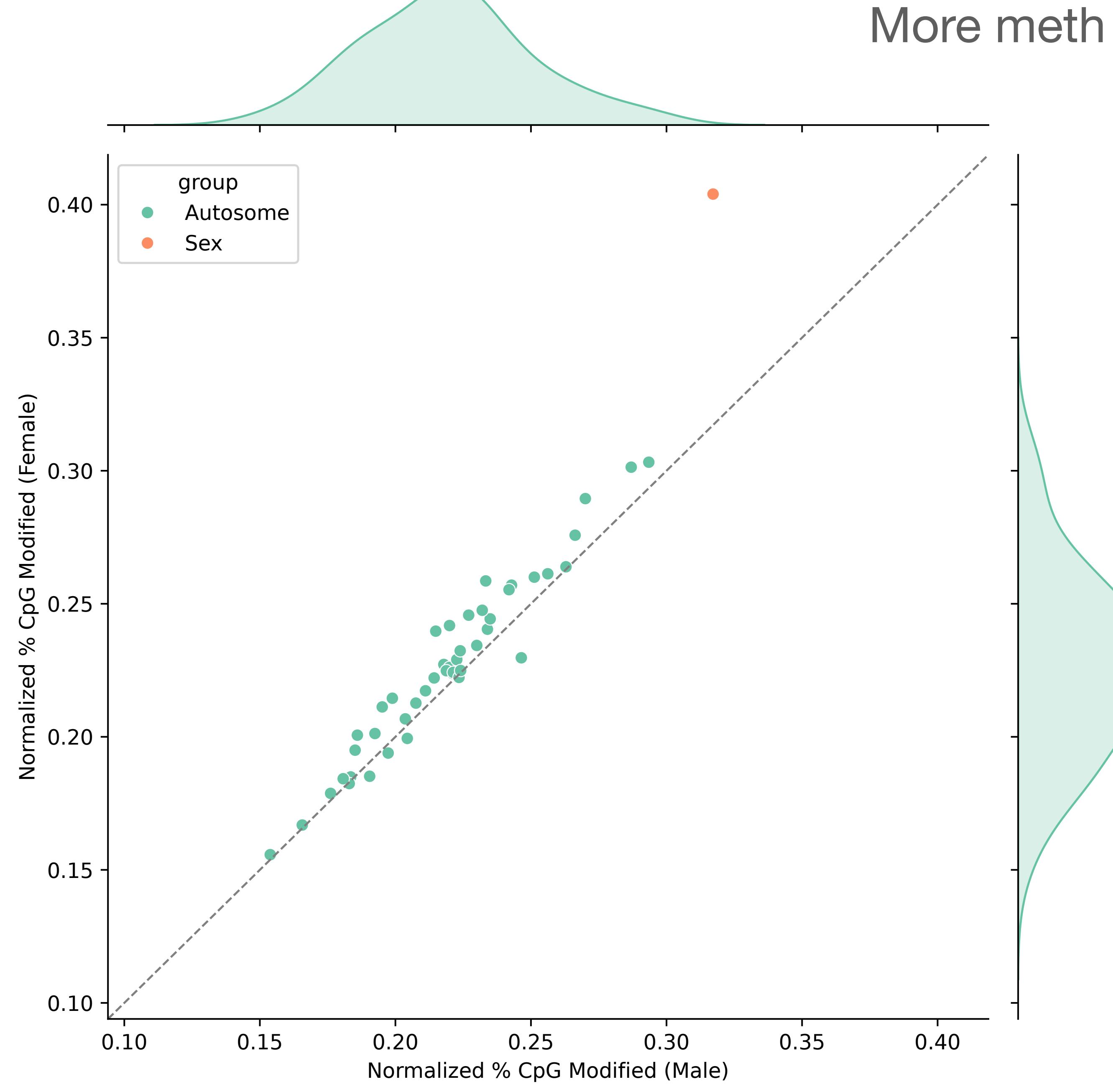
Distance to LINE of highly diff genes

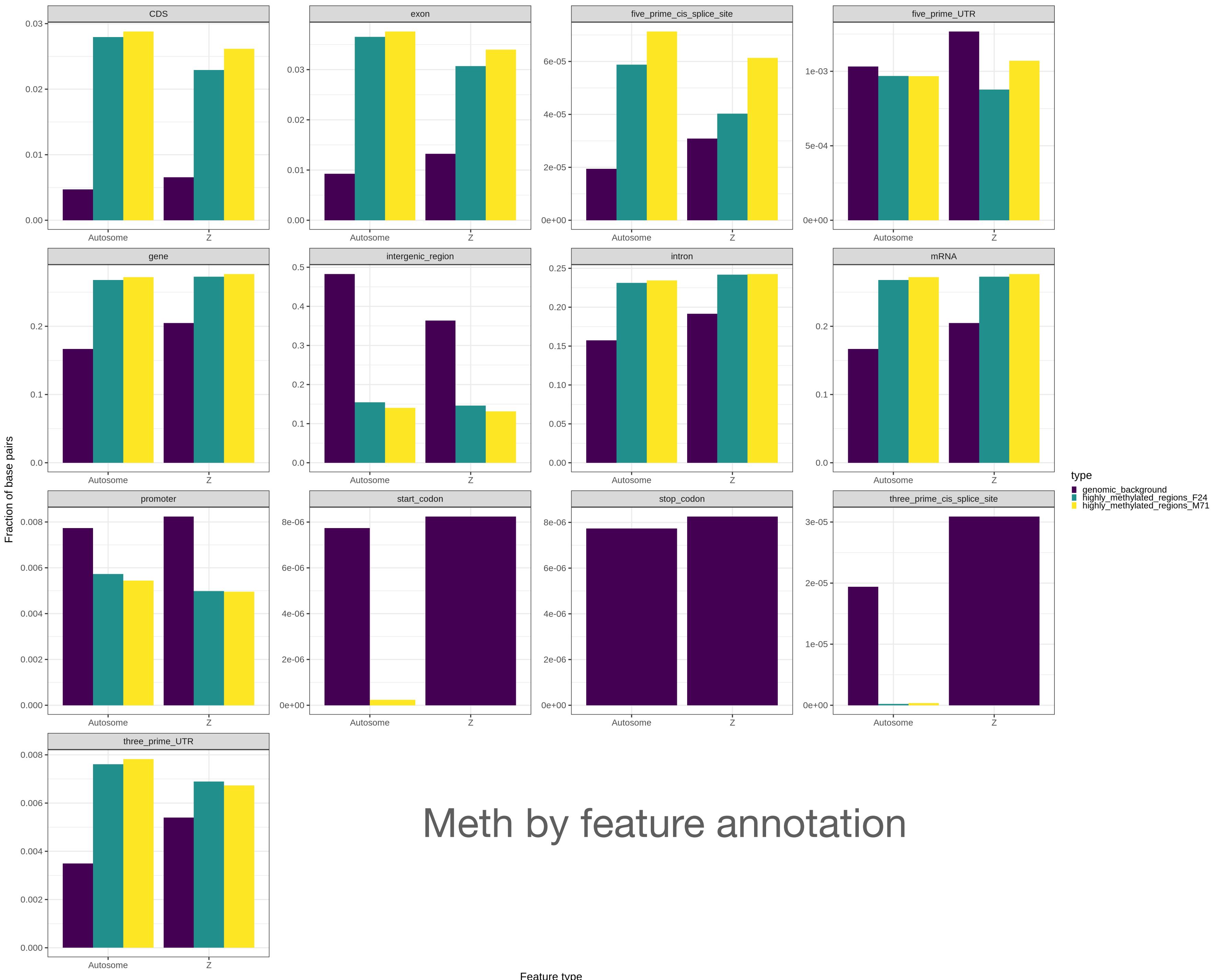


Methylation

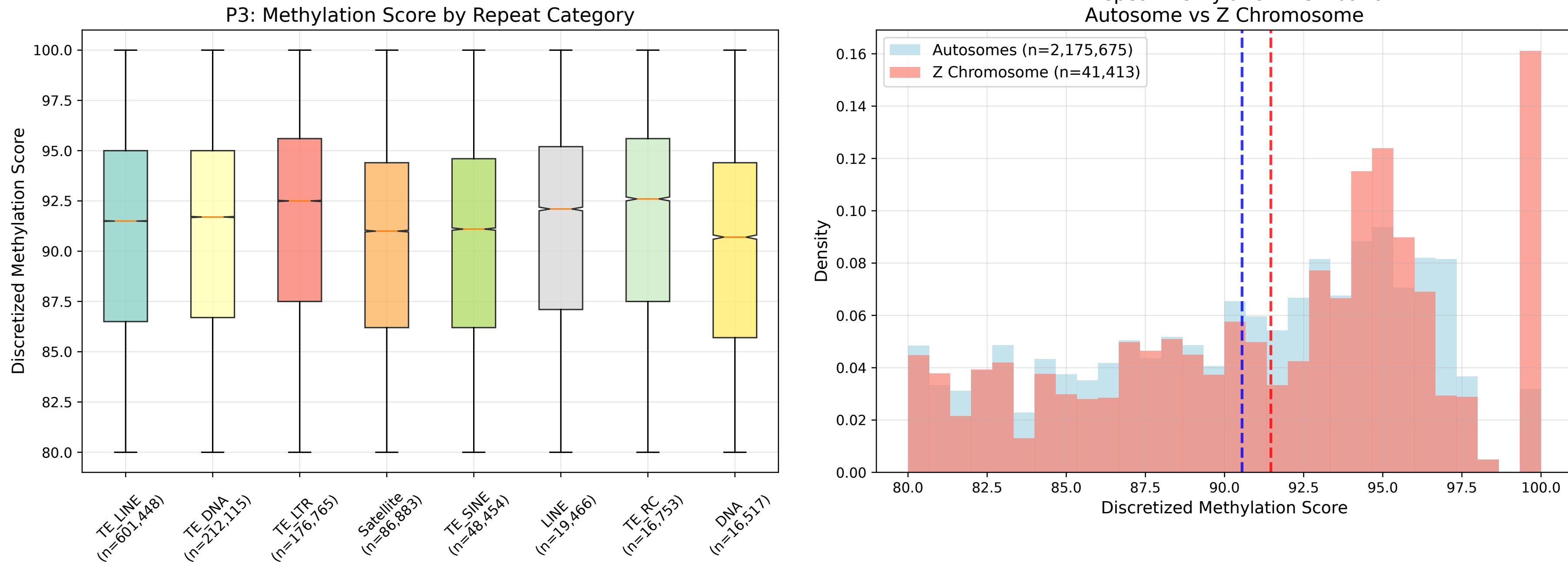
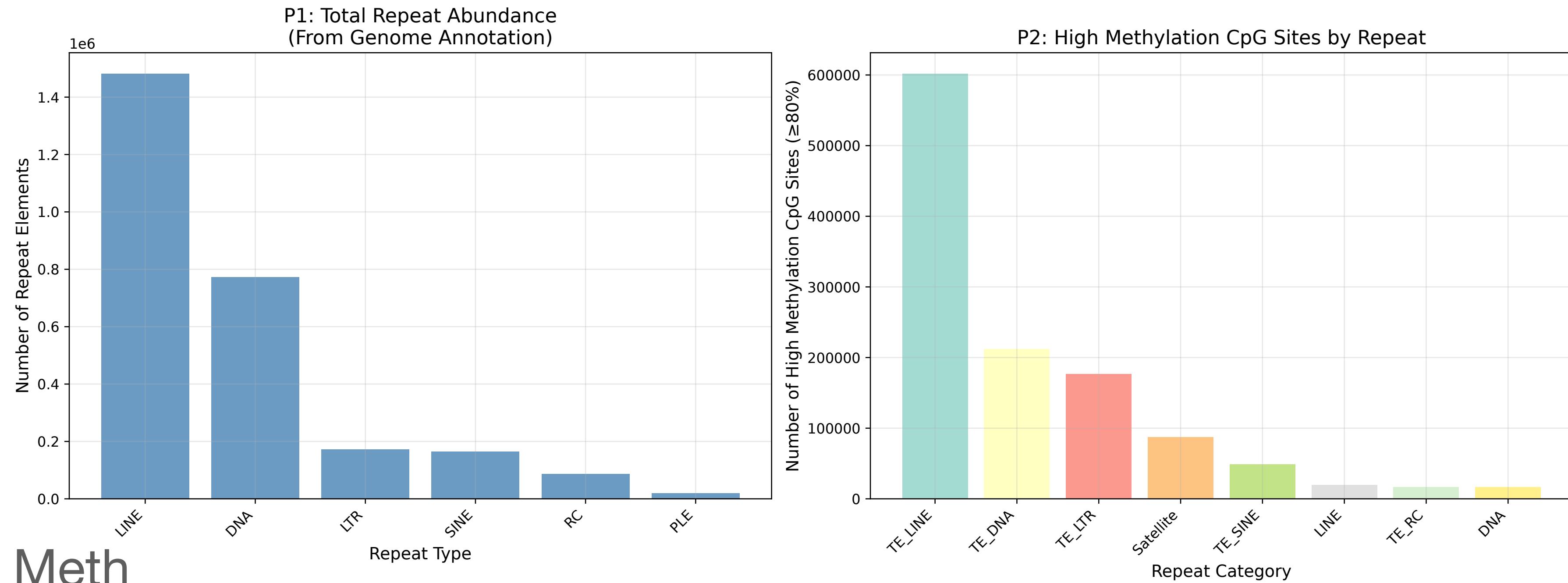
Methy direct count M and F



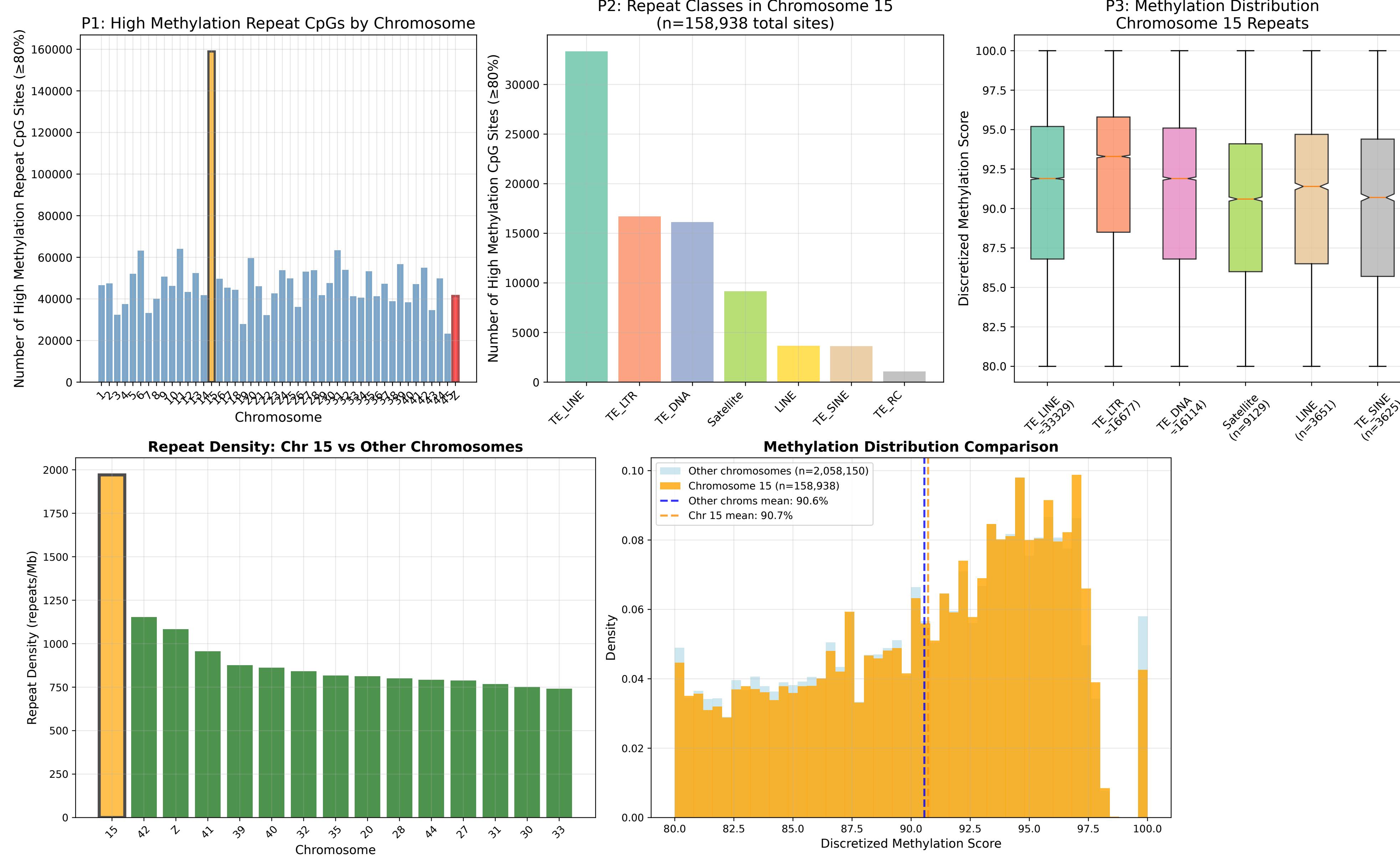




Repeats and Meth

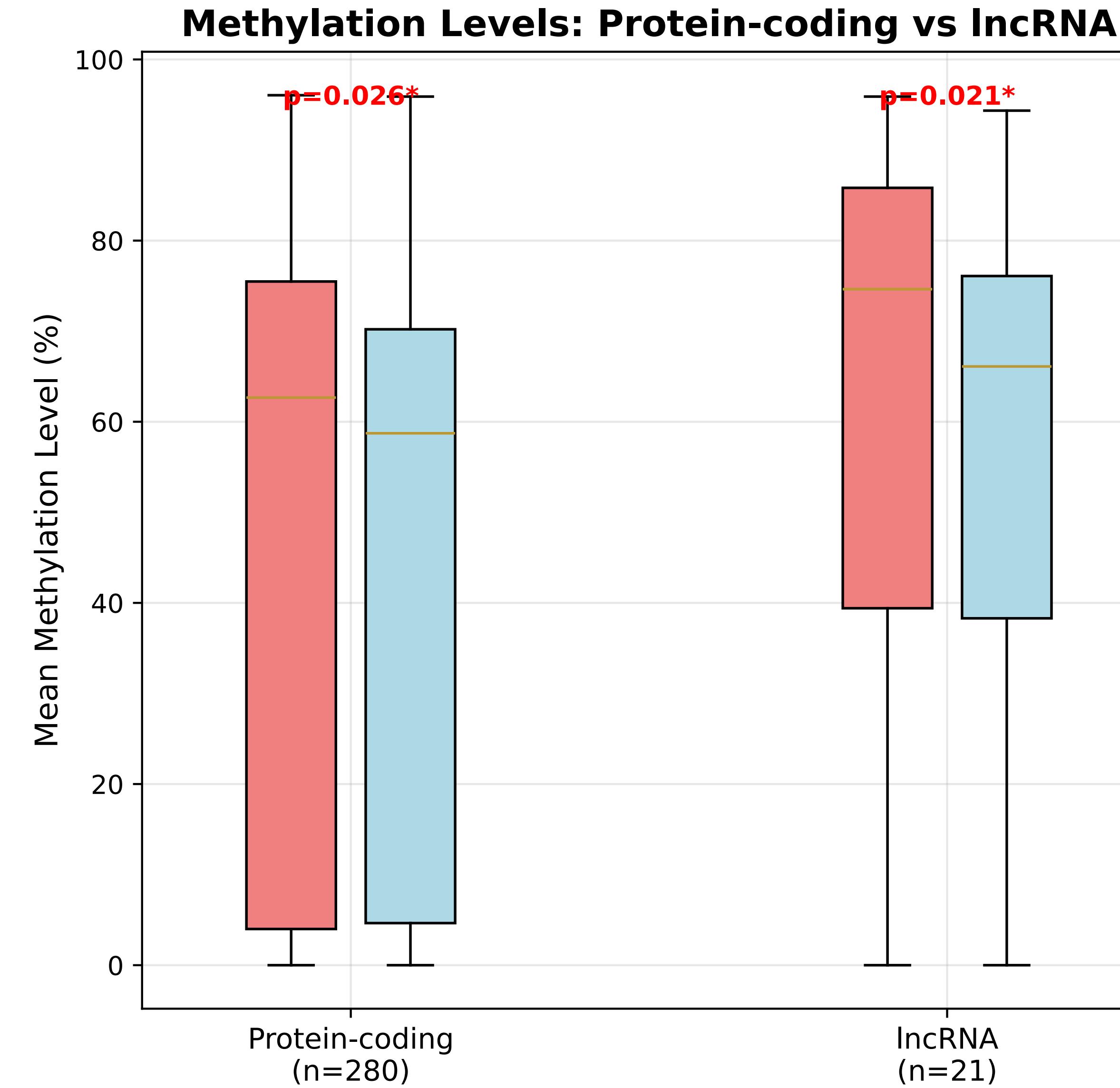
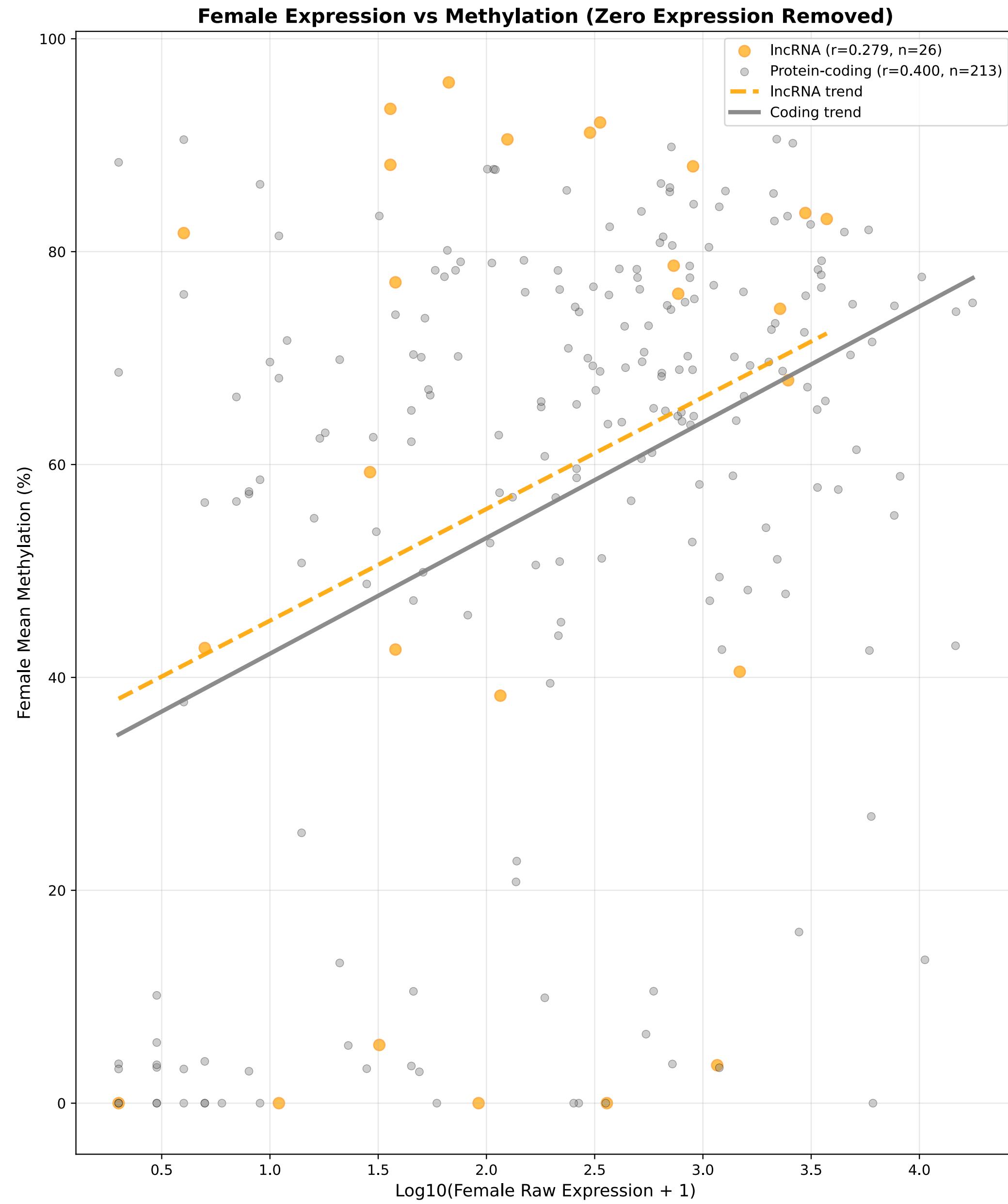


Chr15 is weird ... lots of repeats, #1 rank in density



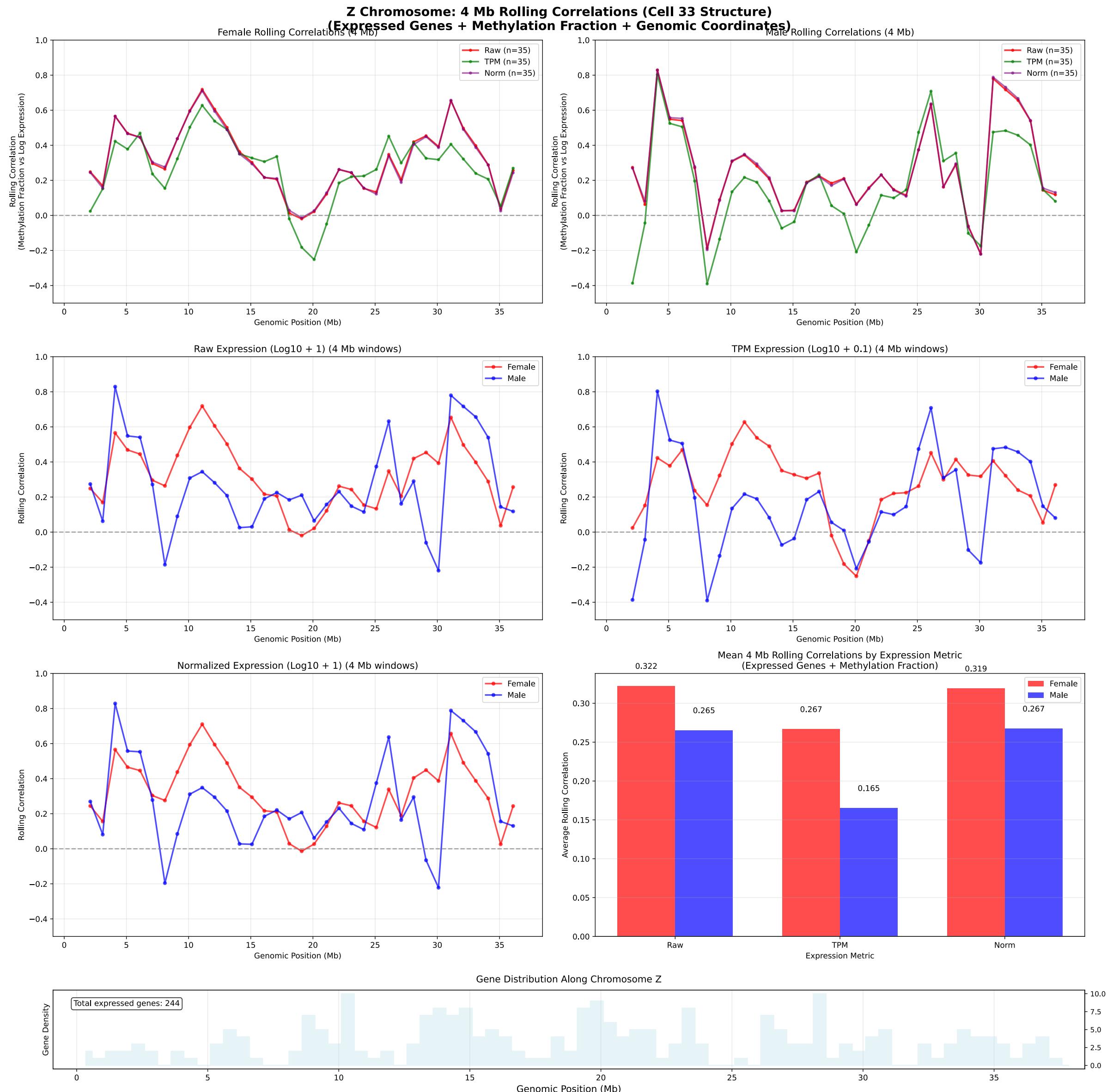
Exp vs Methylation

Protein coding vs lncRNA



Rolling correlation between meth and expression

Different metrics of expression, rug of gene density



Plot w/ 2 Y axis of delta-methylation between Auto and Z and expression

