**Assignment 7Chart

Description automatically generated**

This region of interest a shows an area of non-coding open chromatin in the genome. This is displayed by the presence of both open chromatin regions (in yellow) and noncoding open chromatin regions (in green). The regions of open chromatin were first found using ATAC sequencing (in purple). This data was analyzed using genrich, which generated a narrowPeak file. This file was then ran through bedtools, which subtracted the exons. The final product was regions containing non-coding open chromatin. The areas of gene expression are shown in pink, as these are where RNA sequences for the expression of genes are found.