

# 1 CDKN1B

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

CDKN1B is slightly down- for MOCK after 23h and downmodulated over all timepoints during marburg infection, while the expression level for ebola samples doesn't change. In the RAE the regulation behaviour changes drastically: While MOCK and Ebola samples show downregulation to half of the amount of starting transcripts, the marburg expression is a little bit increased.

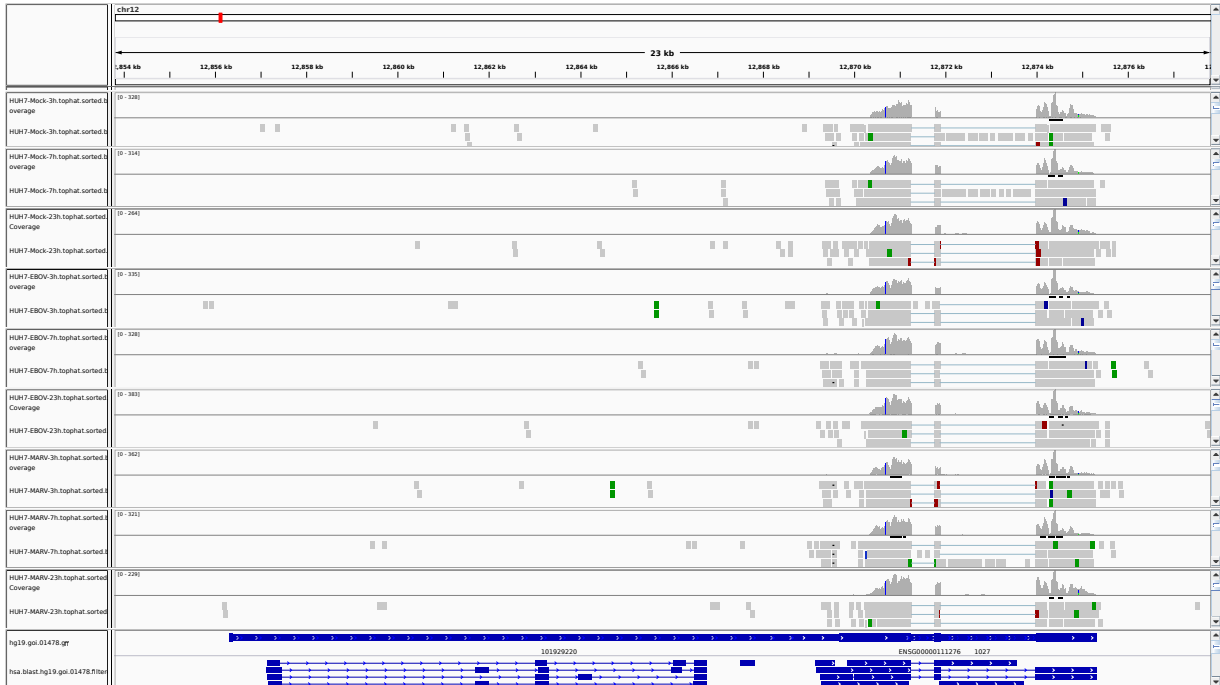


Figure 1: IGV Genome Browser screenshot of gene CDKN1B.

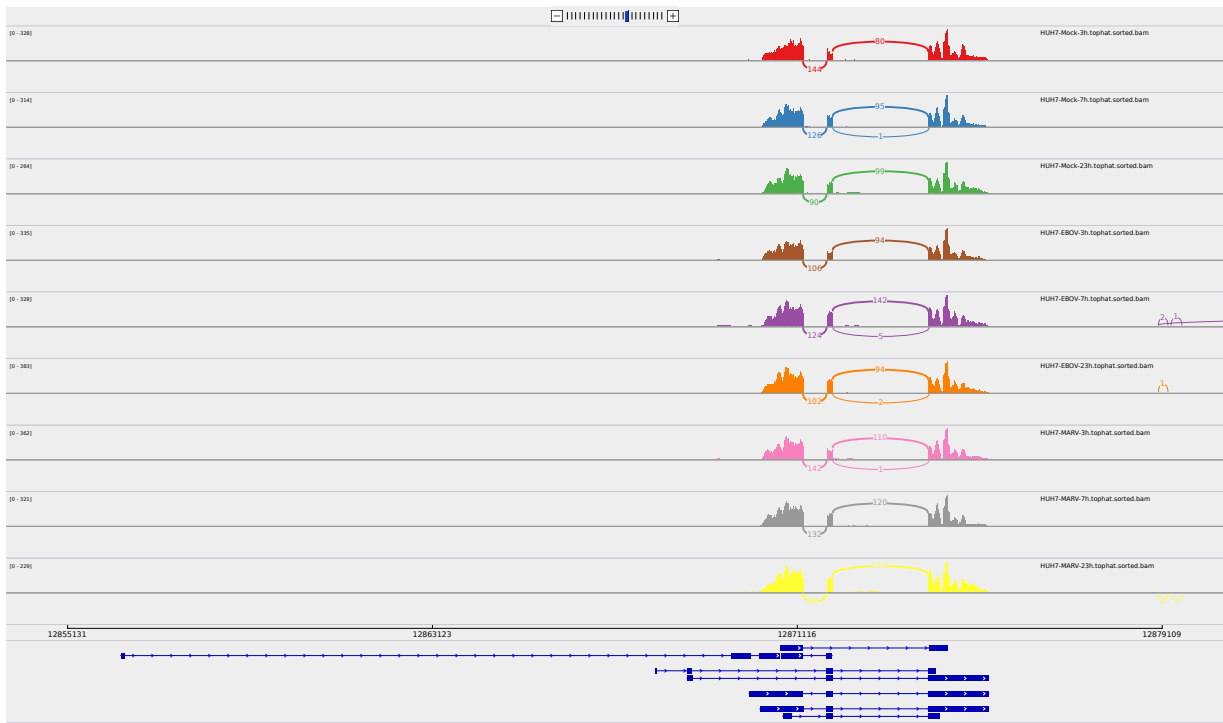


Figure 2: Sashimi plot of gene CDKN1B.

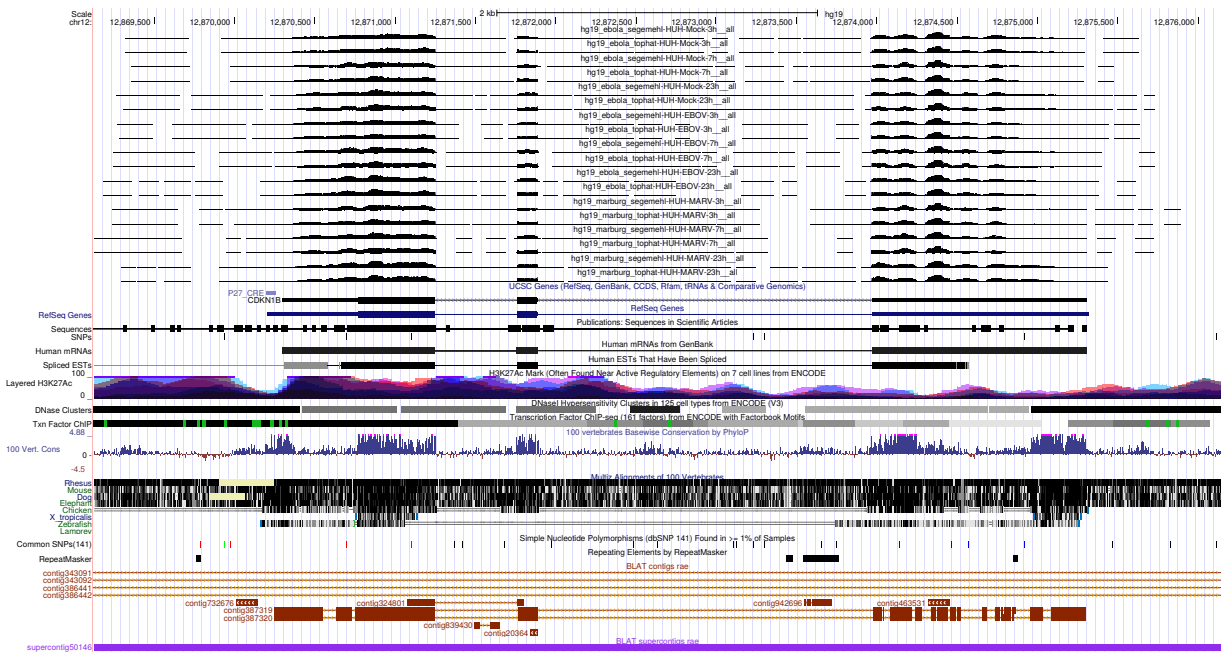


Figure 3: UCSC Genome Browser screenshot of gene CDKN1B.