

1 HBP1

The UCSC shown well conserved HBP1 gene is a transcriptional repressor that binds to the promoter region of target genes. Plays a role in the regulation of the cell cycle and of the Wnt pathway. Binds preferentially to the sequence 5'-TTCATTCATTCA-3'. Binding to the H1F0 promoter is enhanced by interaction with RB1. Disrupts the interaction between DNA and TCF4.

The annotation misses 3 exons of the 3' end. The sashimiplot shows their assignment to HBP1 and not the upstream UCSC annotated COG5 gene. To the locus of COG5 gene, no reads were mapped to observe a possible transcript and confirm the COG5 annotation. Upstream of the 5' a small transcript can be observed in human, which is expressed equally in all samples. The exonic expression is up to 4 fold upregulated in between the Ebola samples and is different to a lower upregulation which goes back to start expression rate after 23 h in Marburg samples.

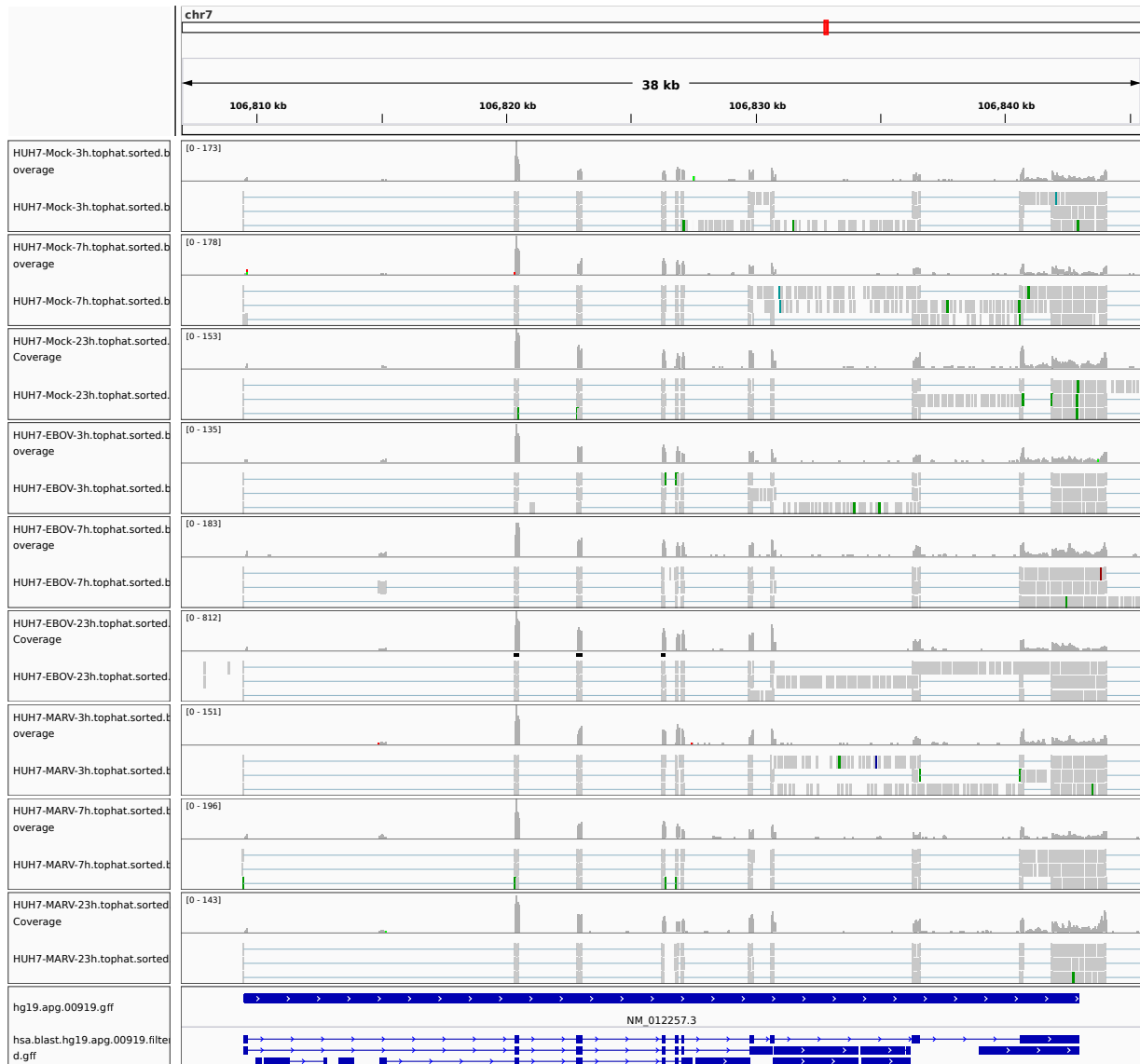


Figure 1: IGV Genome Browser screenshot of gene HBP1.



Figure 2: Sashimi plot of gene HBP1.

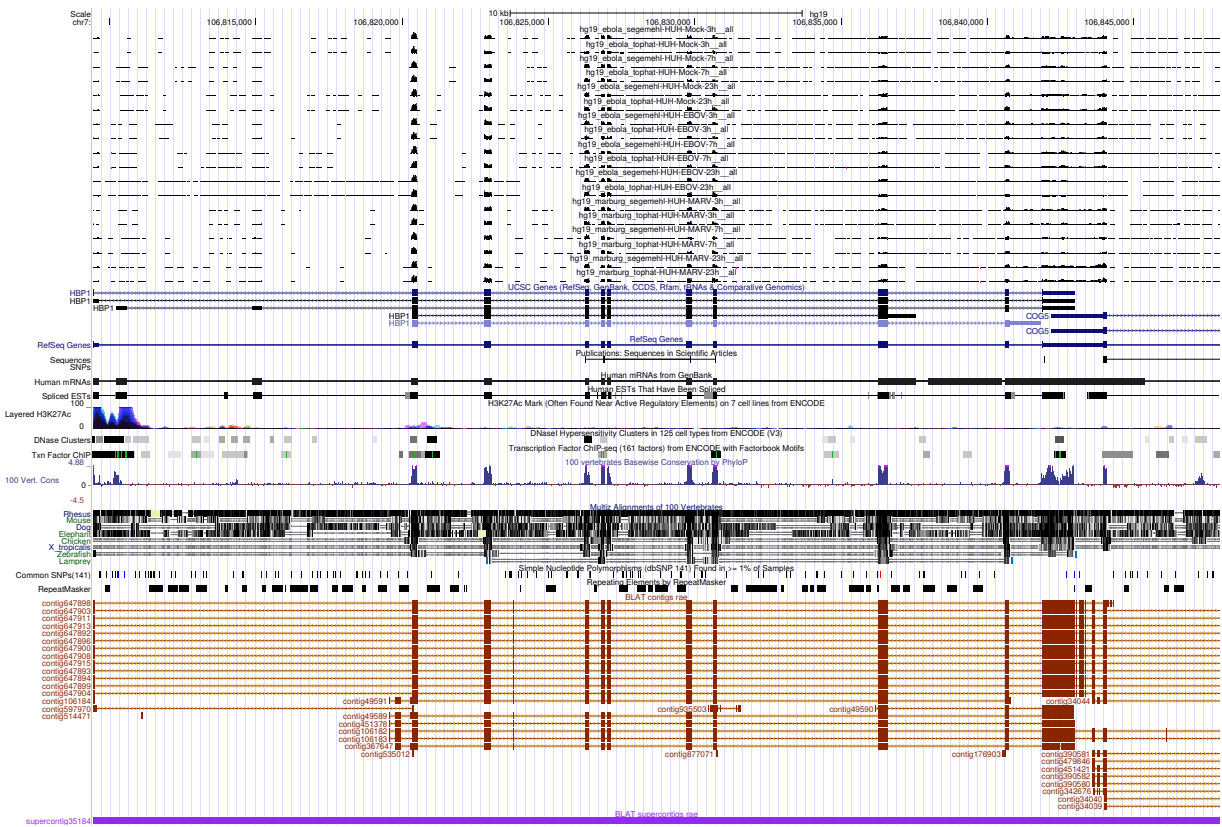


Figure 3: UCSC Genome Browser screenshot of gene HBP1.



Figure 4: IGV Genome Browser screenshot of gene HBP1 upstream.