

1 HSPA1B

This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.

The expression of this well conserved gene is strongly upregulated in human and bat after Ebola infection (7h, 23h) and Marburg infection (7h, then downregulated). Two SNPs can be observed in human and one in bat for a different position.



Figure 1: IGV Genome Browser screenshot of gene HSPA1B.

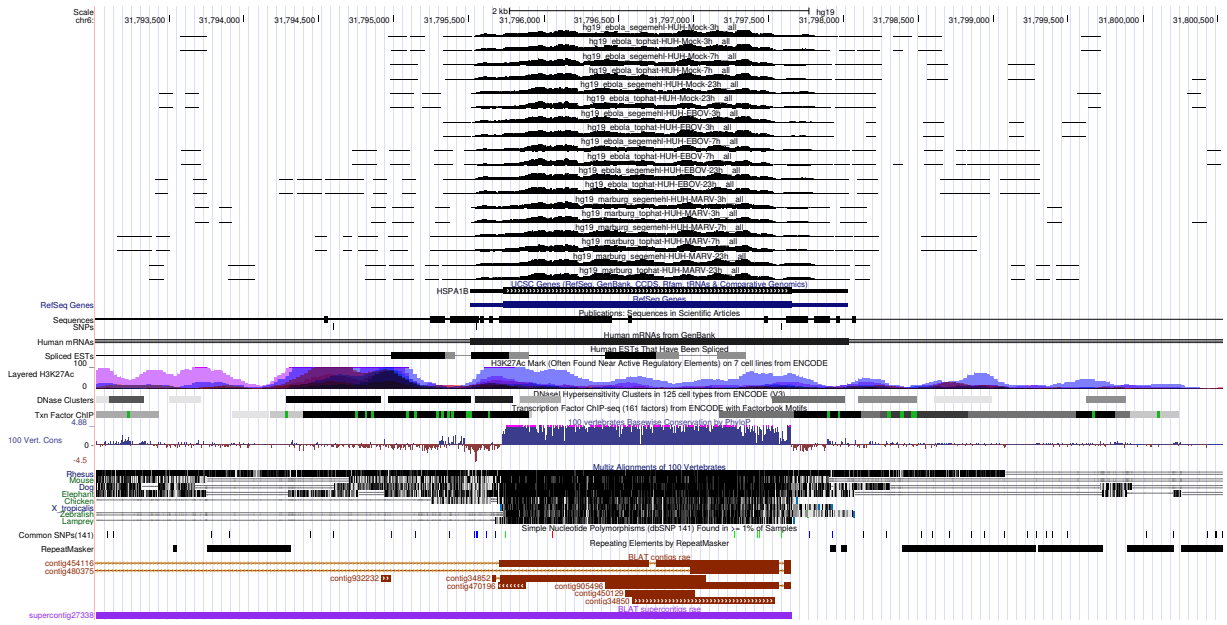


Figure 2: UCSC Genome Browser screenshot of gene HSPA1B.