1 ATF3

This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes.

The gene ATF3 is significantly higher expressed in bat 23 h after Ebola virus infection compared to rest. In human the 23 h Ebola dataset is the only one showing expression of the 3'UTR, which may have regulatory function.

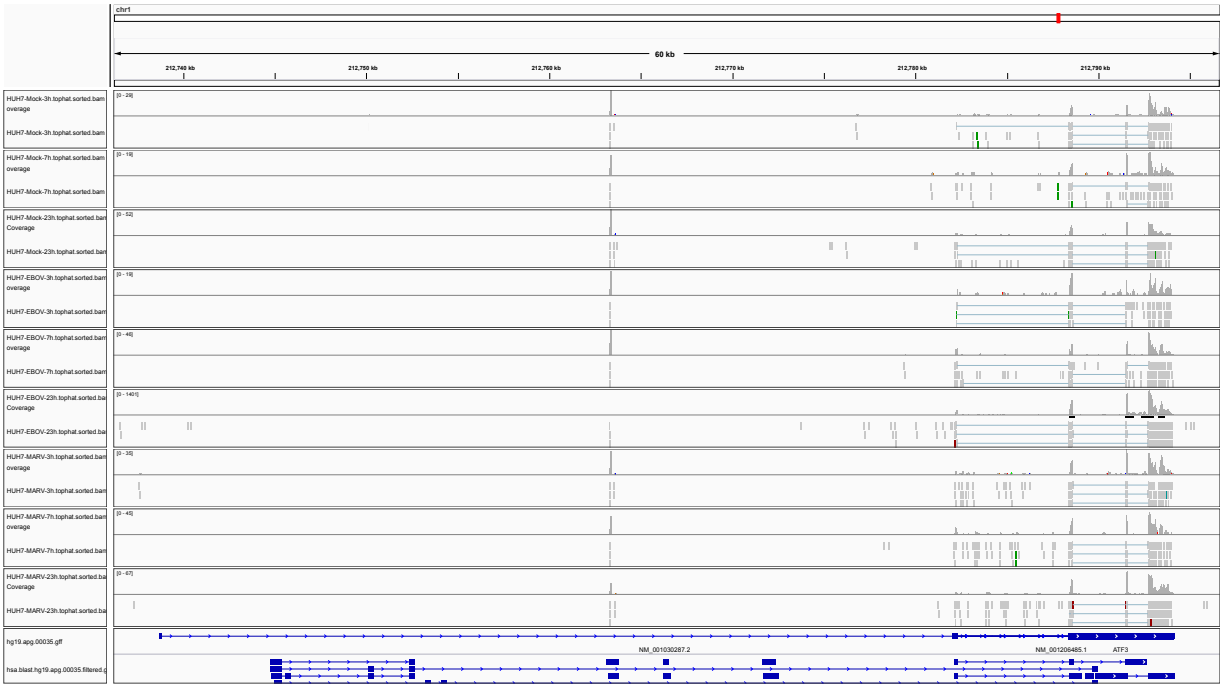

Figure 1: IGV Genome Browser screenshot of gene ATF3. Massive expression in Ebola 23 h dataset.

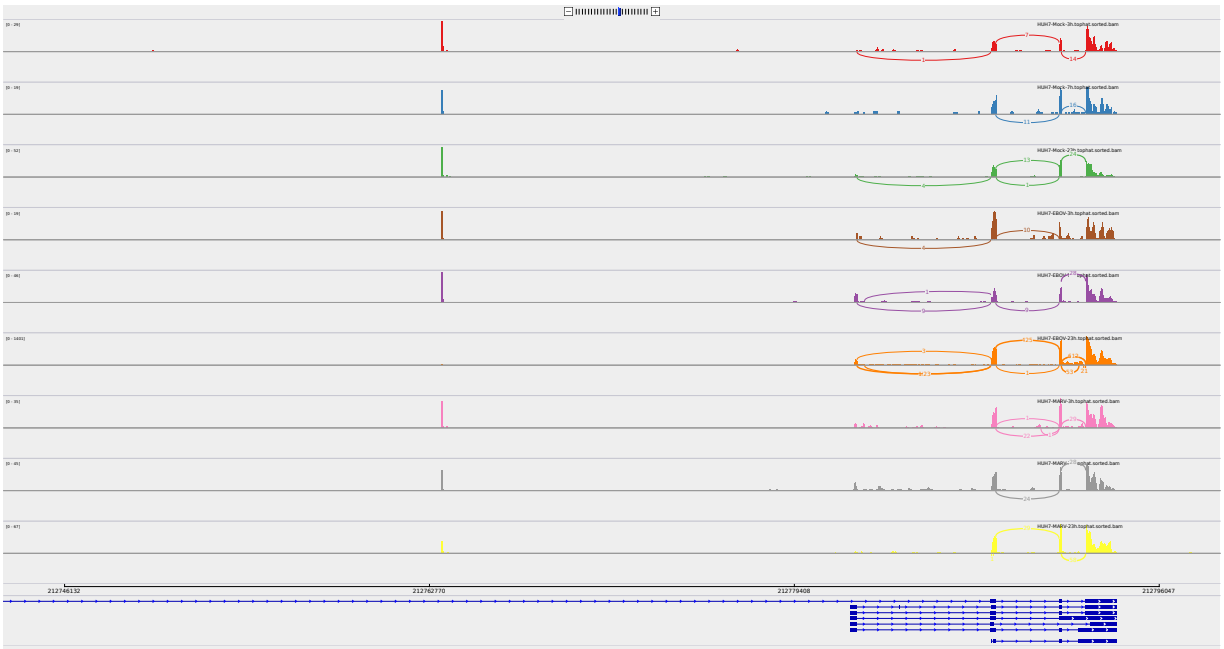

Figure 2: Sashimi plot of gene ATF3. Specific exon pattern fitting only subset of isoforms.

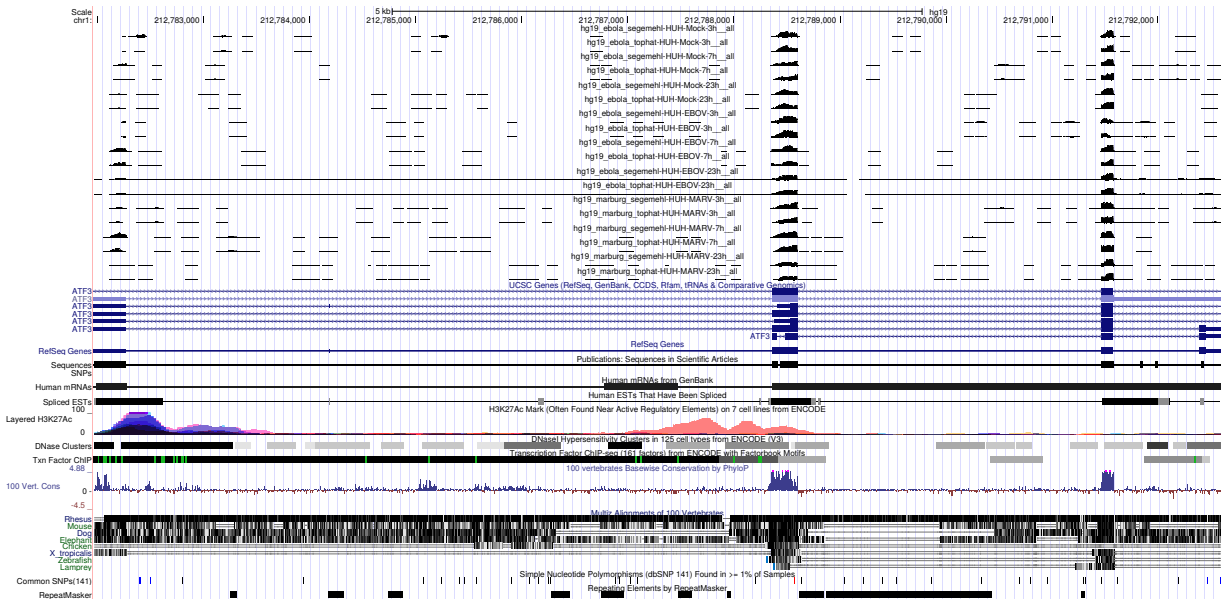

Figure 3: UCSC Genome Browser screenshot of gene ATF3. 3'UTR containing isoform in Ebola 23 h dataset only.