

1 VPS4A

The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast *Vps4* protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast *Vps4* and mouse *Skd1* proteins. The mouse *Skd1* (suppressor of K⁺ transport defect 1) has been shown to be really an yeast *Vps4* ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to *Vps4* protein in yeast. The gene encoding this paralog has been mapped to chromosome 16; the gene for the other resides on chromosome 18.

Downregulated in Ebola and Marburg infected human cells 23 h after infection. The bat homolog is expressed but shows only a slight increase upon Marburg infection.

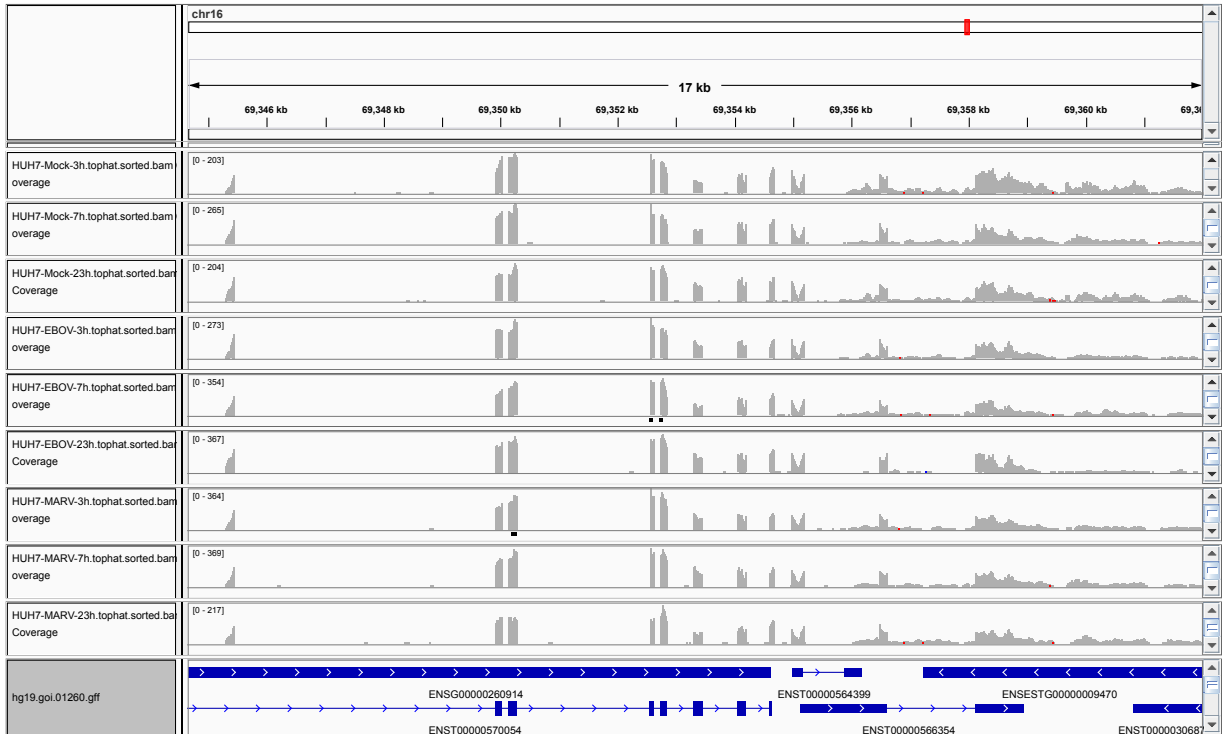


Figure 1: IGV Genome Browser screenshot of gene VPS4A.

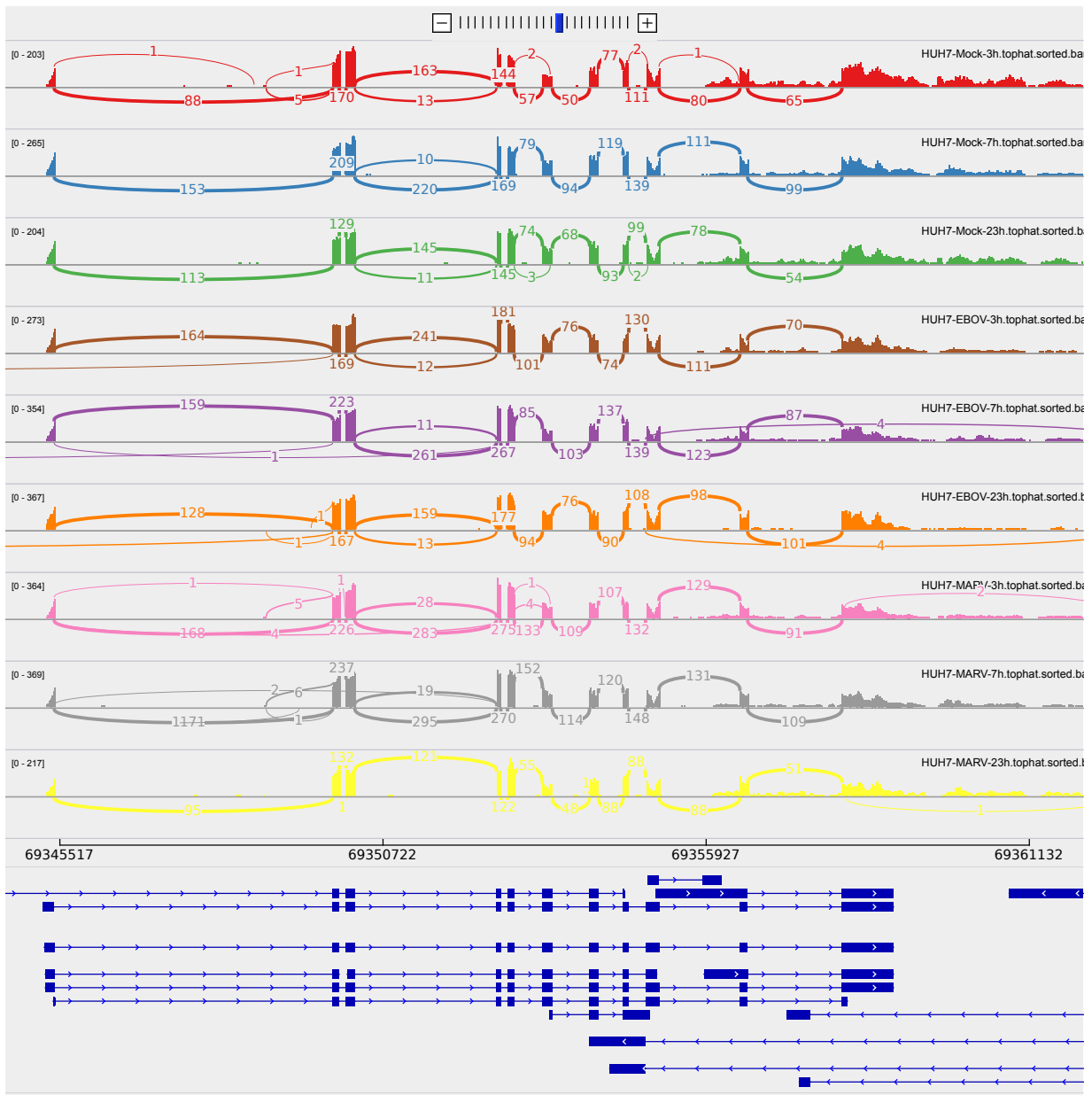


Figure 2: Sashimi plot of gene VPS4A.

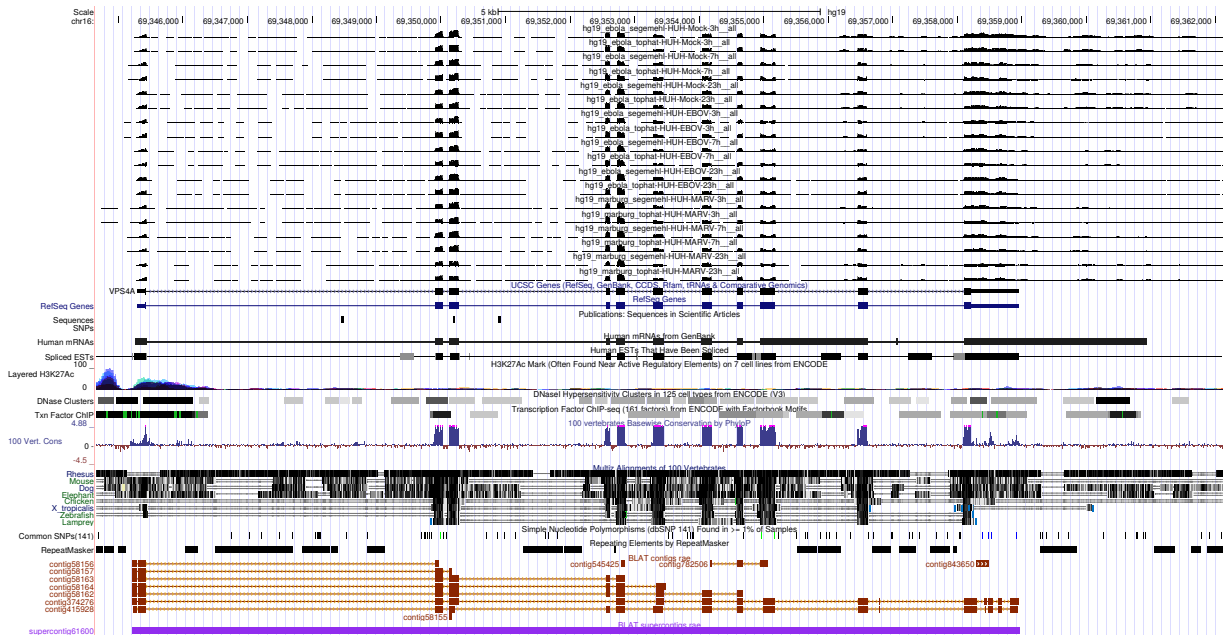


Figure 3: UCSC Genome Browser screenshot of gene VPS4A.