

# 1 PIM1

The protein encoded by this gene belongs to the Ser/Thr protein kinase family, and PIM subfamily. This gene is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. It plays a role in signal transduction in blood cells, contributing to both cell proliferation and survival, and thus provides a selective advantage in tumorigenesis. Both the human and orthologous mouse genes have been reported to encode two isoforms (with preferential cellular localization) resulting from the use of alternative in-frame translation initiation codons, the upstream non-AUG (CUG) and downstream AUG codons.

This gene is expressed in human and bat in all probes. In Ebola infected probes it is almost three times upregulated after 23h in human, but downregulated in bat. In contrast to that, in Marburg infected probes it is downregulated in human after 23h, but upregulated in bat.

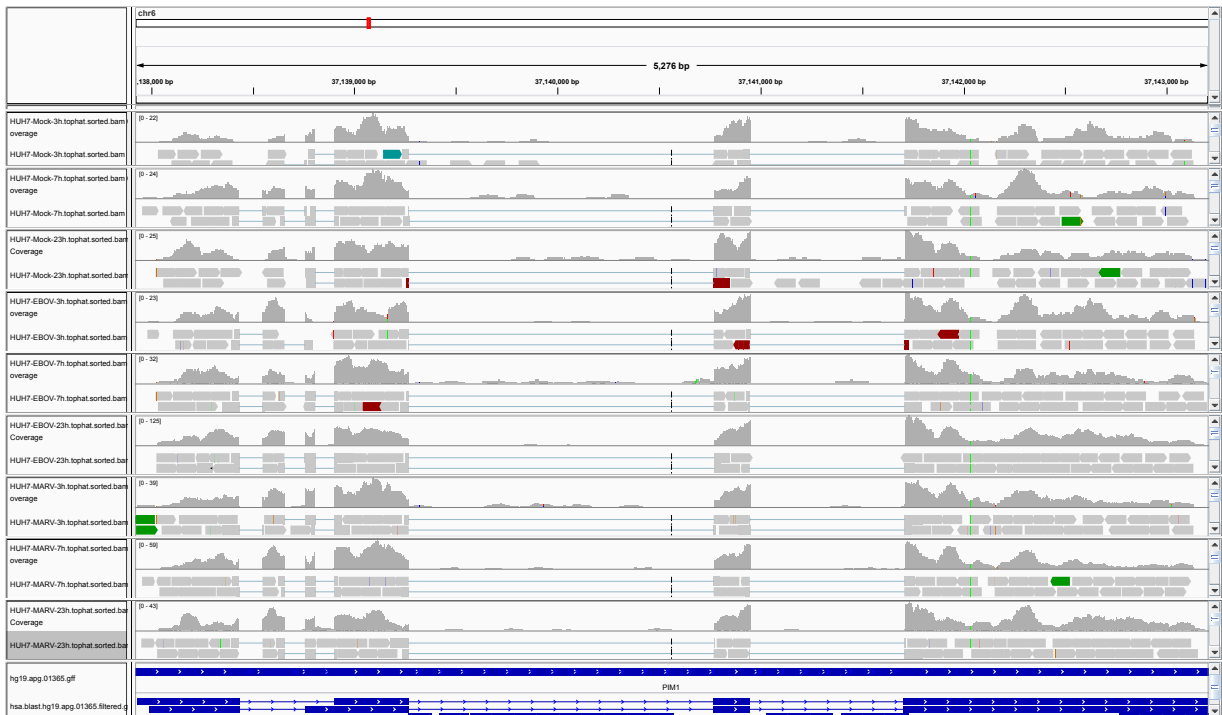


Figure 1: IGV Genome Browser screenshot of gene PIM1.

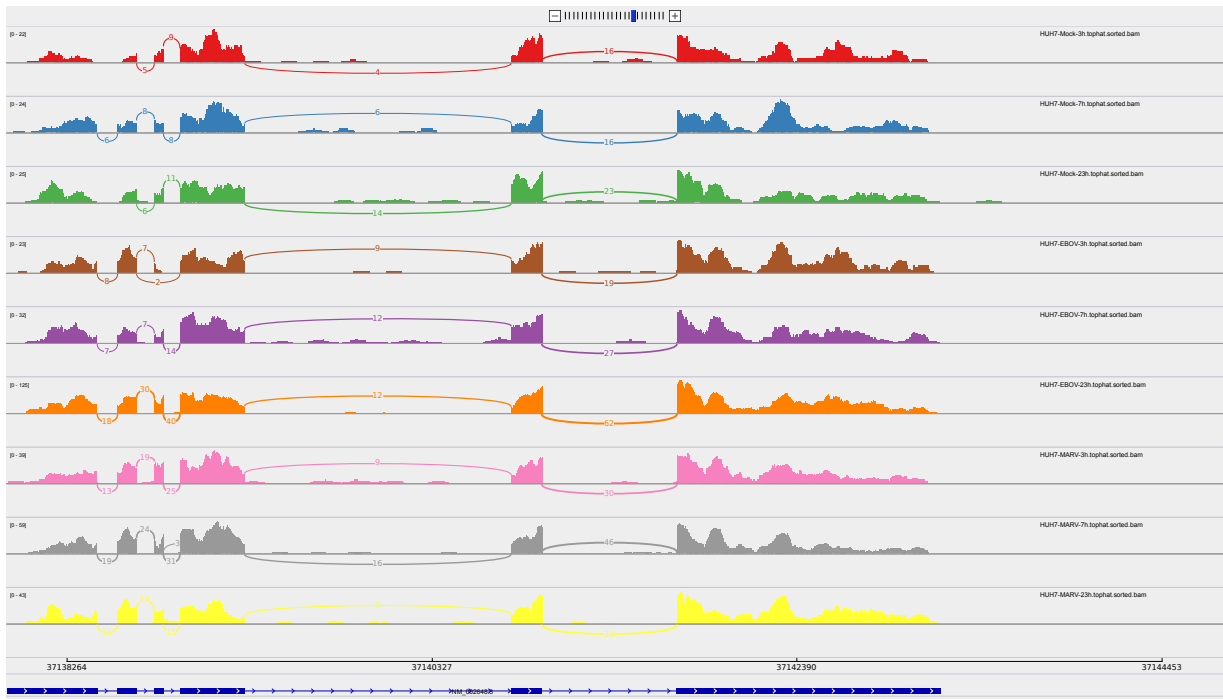


Figure 2: Sashimi plot of gene PIM1.

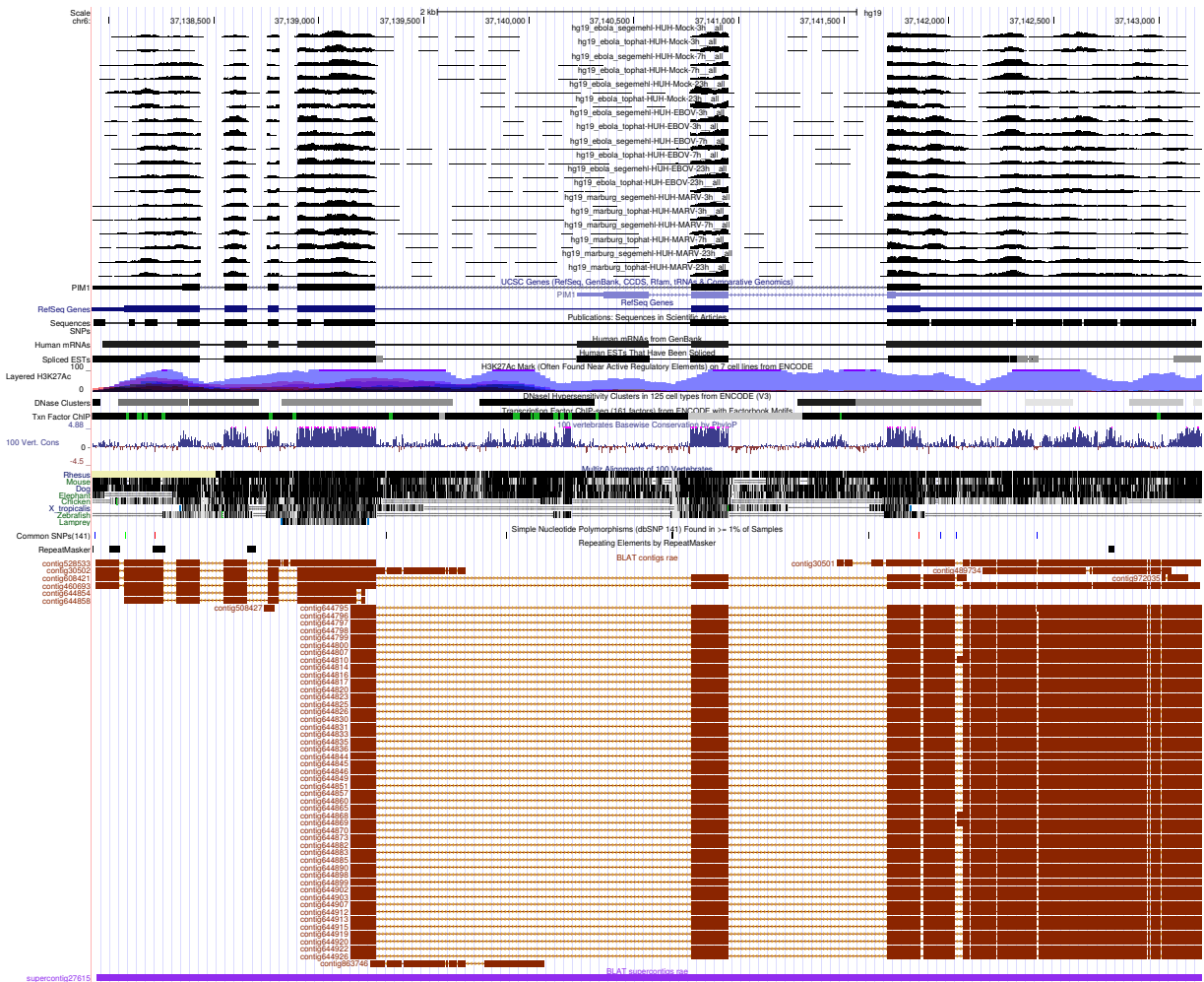


Figure 3: UCSC Genome Browser screenshot of gene PIM1.