

1 SOS1

This gene encodes a protein that is a guanine nucleotide exchange factor for RAS proteins, membrane proteins that bind guanine nucleotides and participate in signal transduction pathways. GTP binding activates and GTP hydrolysis inactivates RAS proteins. The product of this gene may regulate RAS proteins by facilitating the exchange of GTP for GDP. Mutations in this gene are associated with gingival fibromatosis 1 and Noonan syndrome type 4.

The gene is downregulated in human after Marburg infection, but the bat homolog is stably expressed.

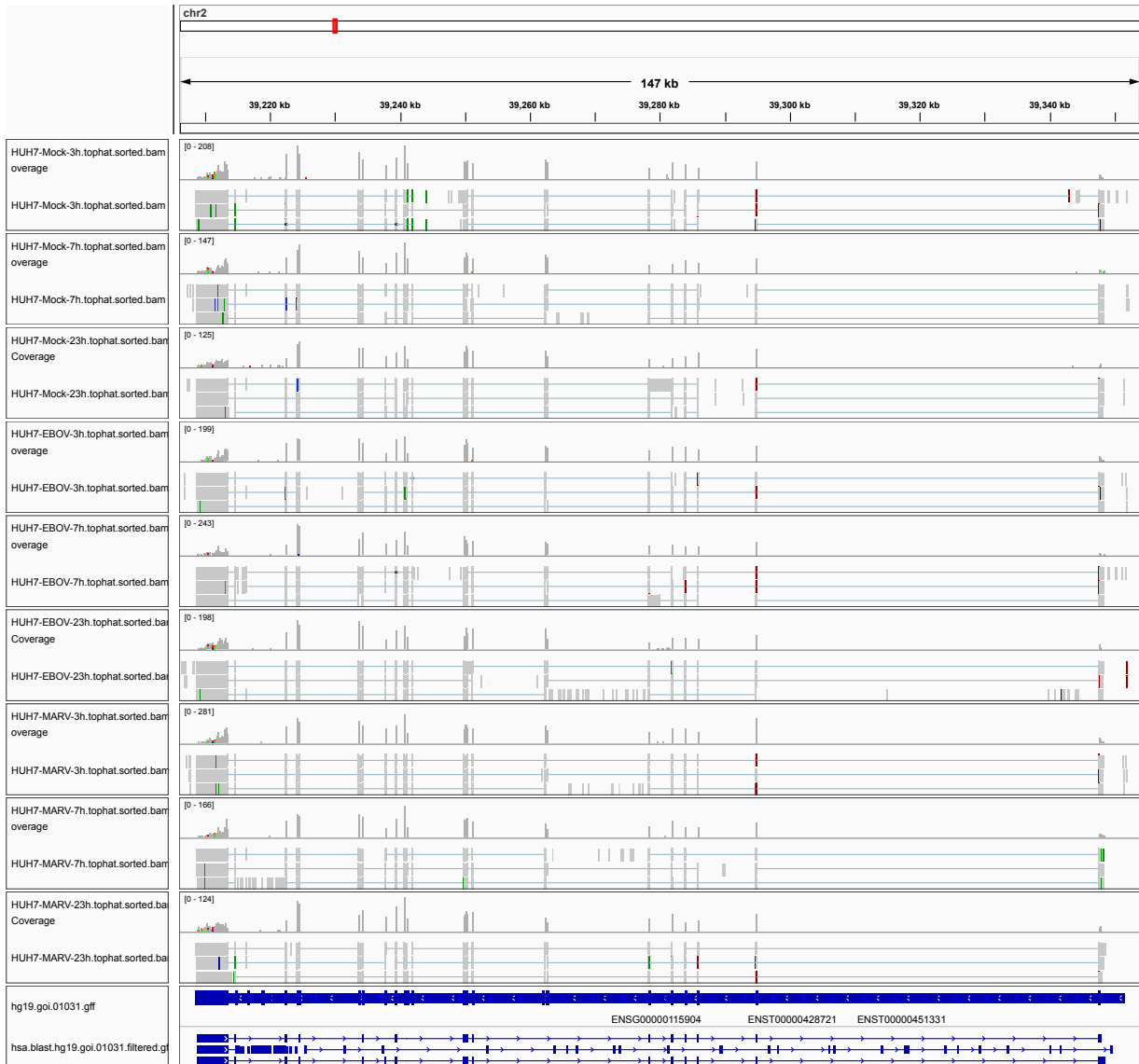


Figure 1: IGV Genome Browser screenshot of gene SOS1.

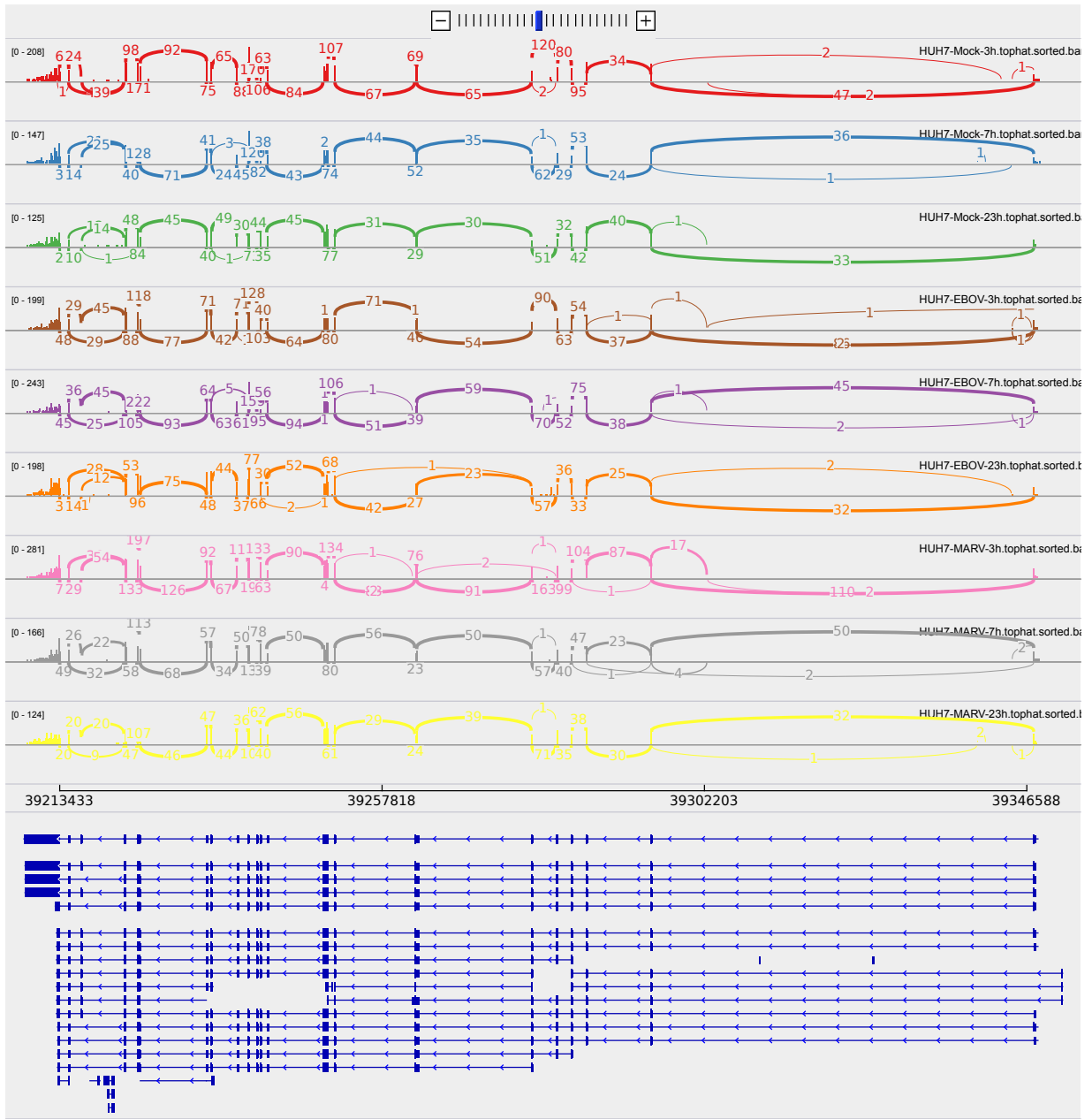


Figure 2: Sashimi plot of gene *SOS1*.

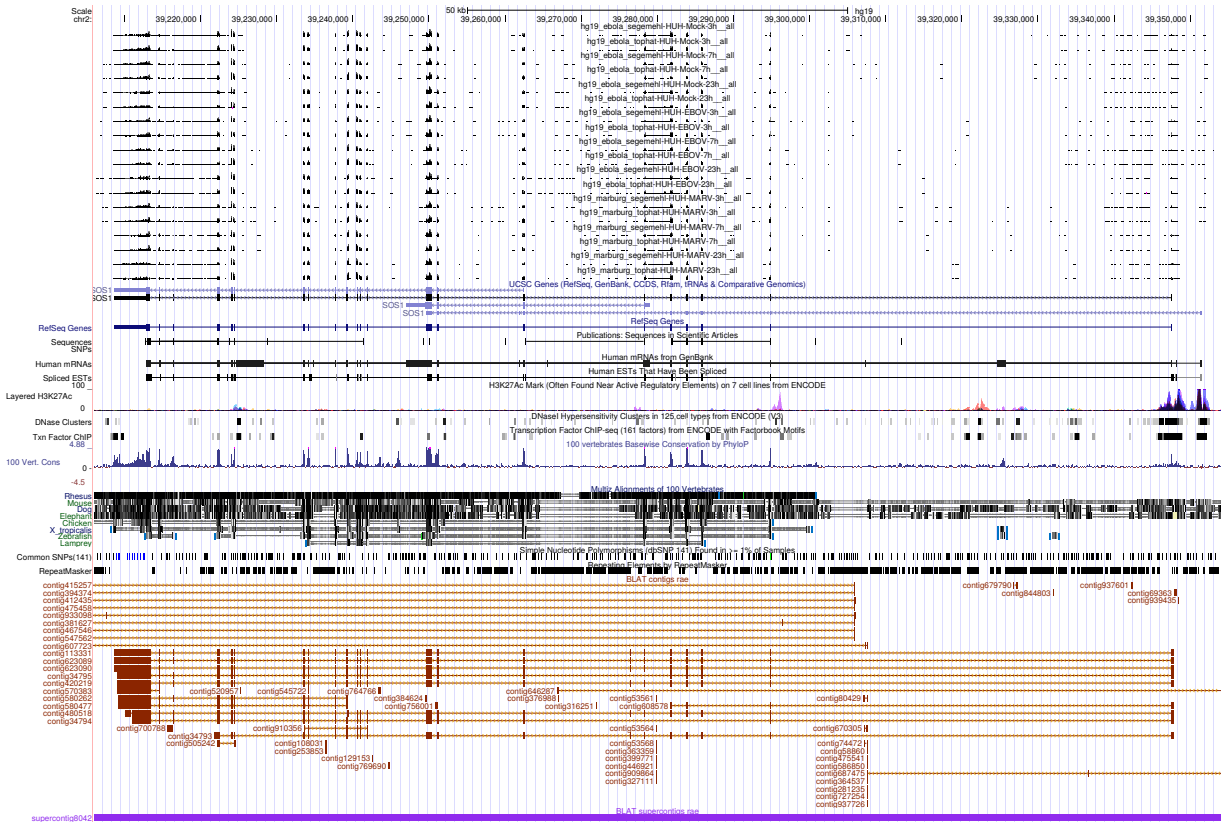


Figure 3: UCSC Genome Browser screenshot of gene *SOS1*.