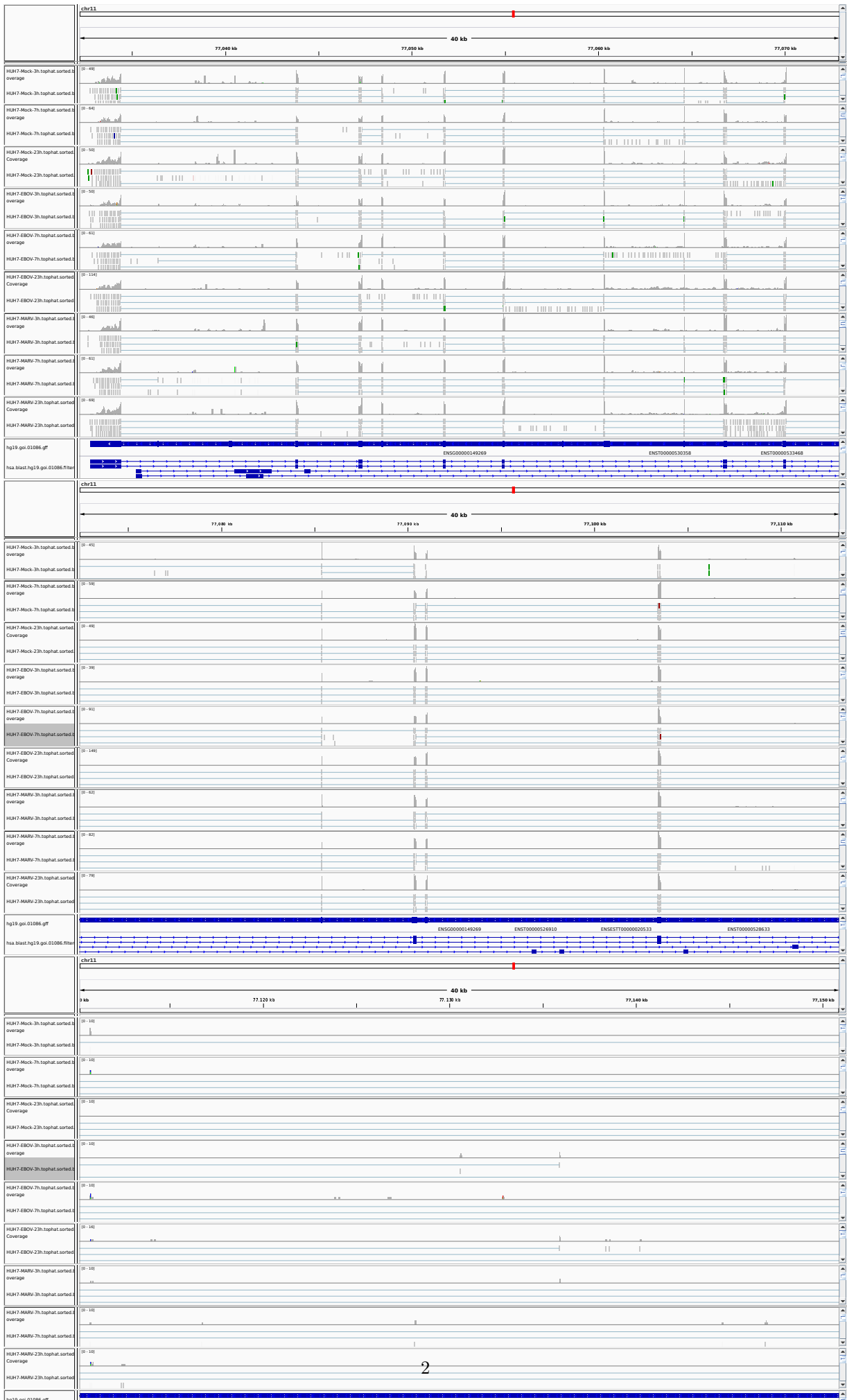
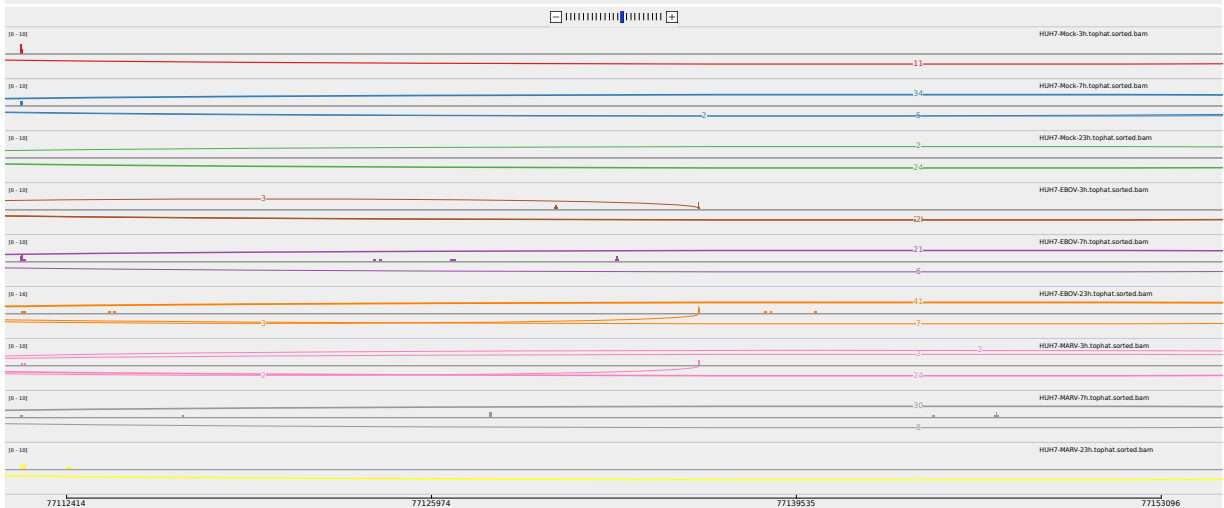
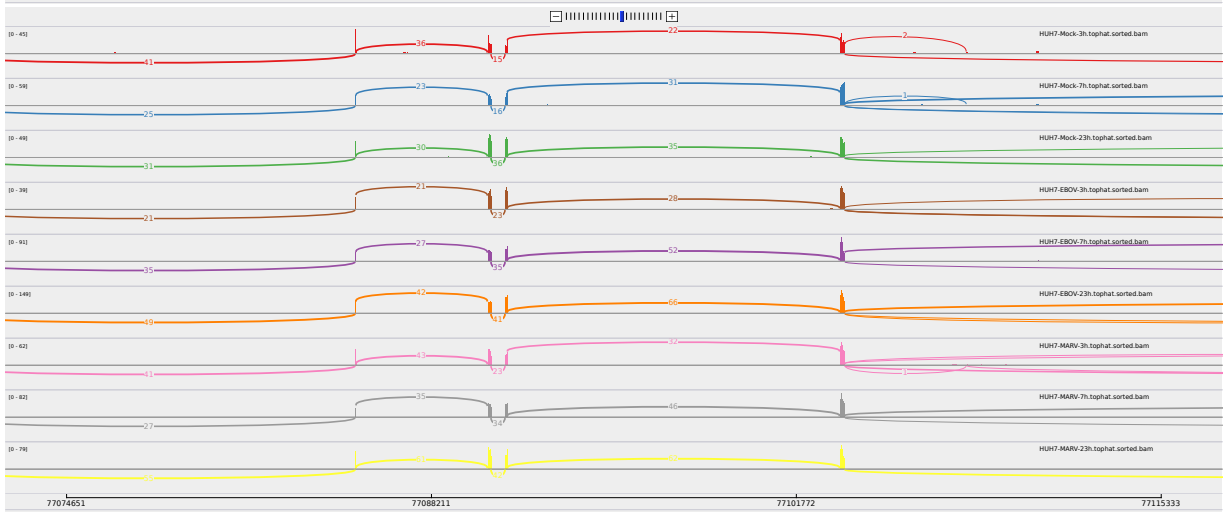
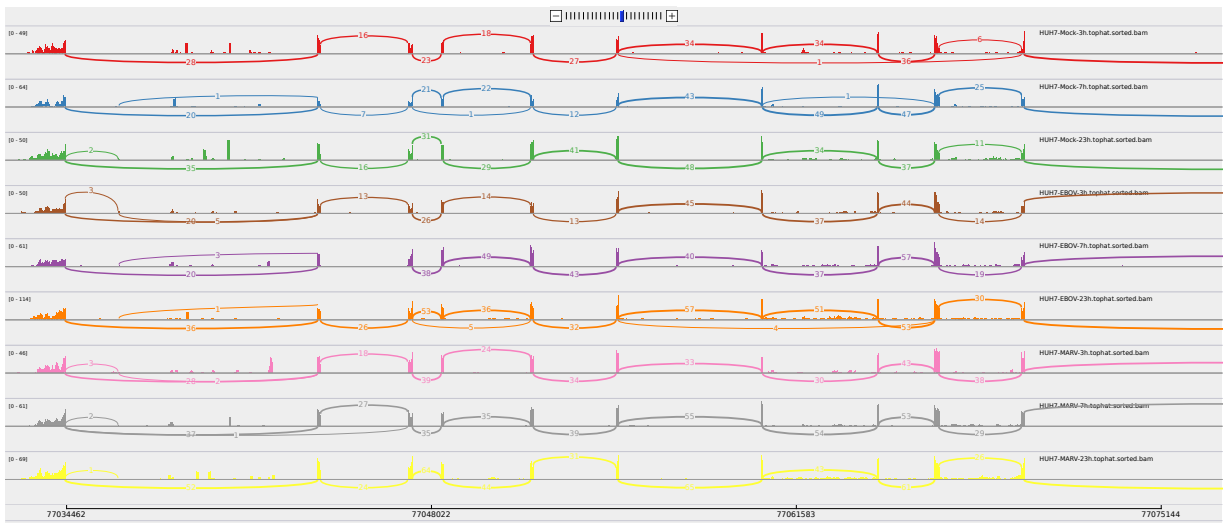


# 1 PAK1

Homo sapiens p21 protein (Cdc42/Rac)-activated kinase 1 (PAK1), transcript variant 2 gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

This gene is slightly expressed in human and even more less in bat, but from the sequencing results a small upregulation during Ebola and Marburg infection in human and bat can be observed. On the first 9 (5'-3') of 14 annotated introns, some reads could be mapped.





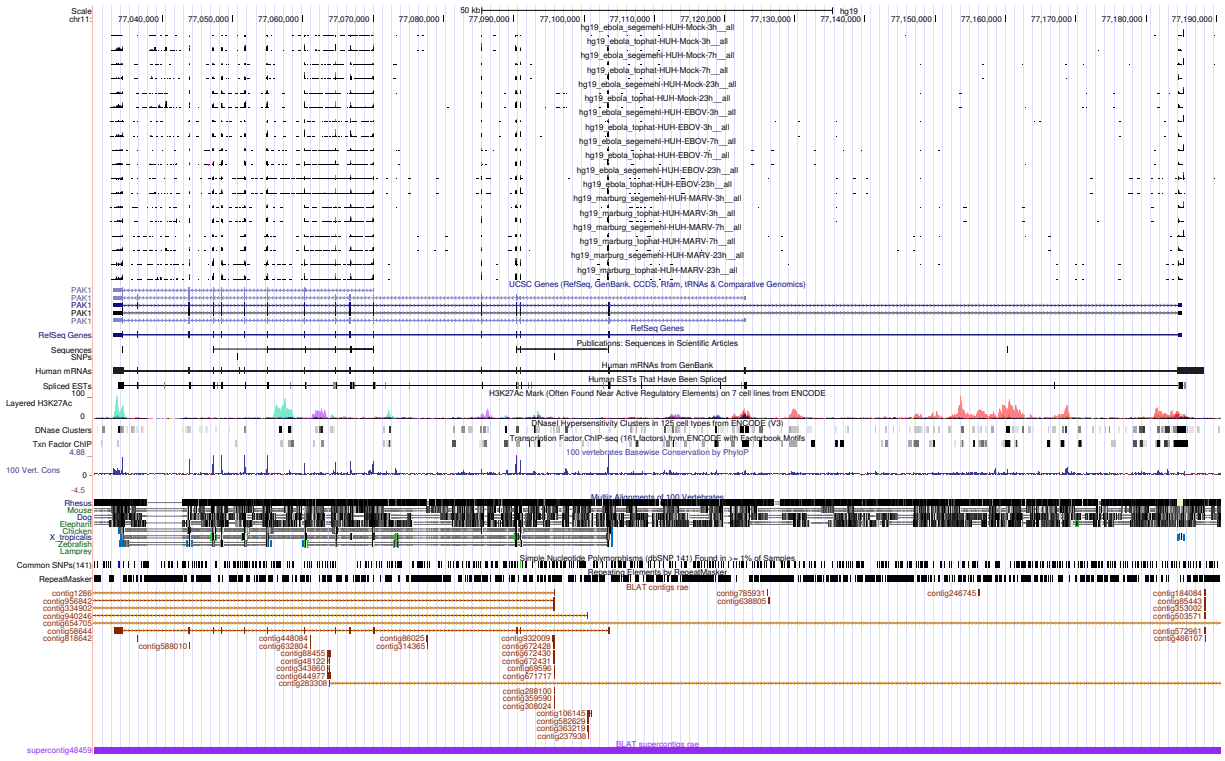


Figure 3: UCSC Genome Browser screenshot of gene PAK1.