1 MAP3K12

This gene encodes a member of the serine/threonine protein kinase family. This kinase contains a leucine-zipper domain and is predominately expressed in neuronal cells. The phosphorylation state of this kinase in synaptic terminals was shown to be regulated by membrane depolarization via calcineurin. This kinase forms heterodimers with leucine zipper containing transcription factors, such as cAMP responsive element binding protein (CREB) and MYC, and thus may play a regulatory role in PKA or retinoic acid induced neuronal differentiation. Alternatively spliced transcript variants encoding different proteins have been described.

It is downregulated after 23 h in all human probes and seems not to be expressed in bat.

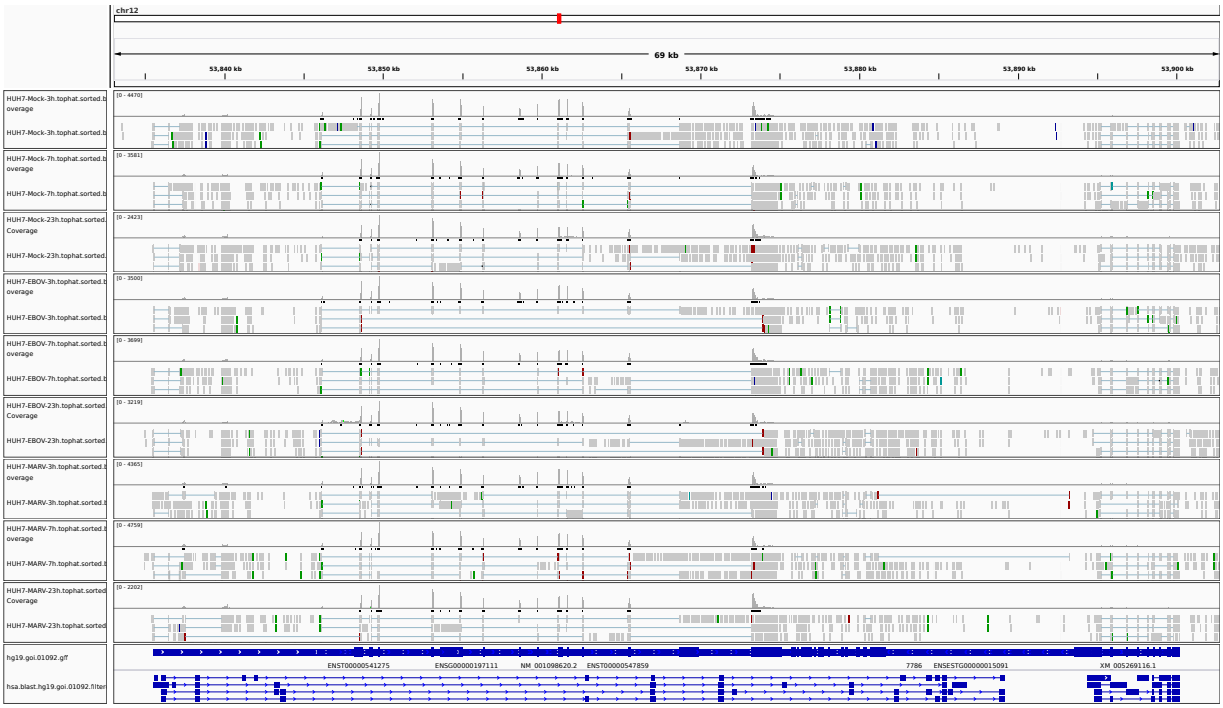

Figure 1: IGV Genome Browser screenshot of gene MAP3K12.

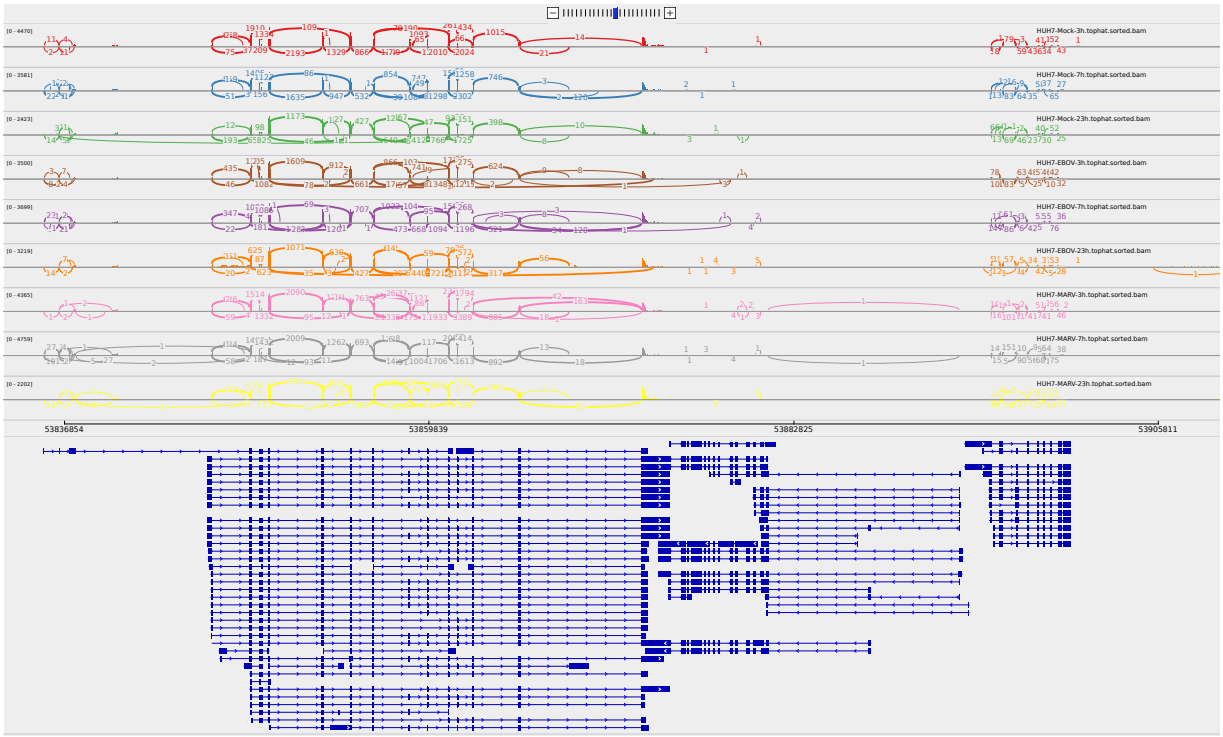

Figure 2: Sashimi plot of gene MAP3K12.

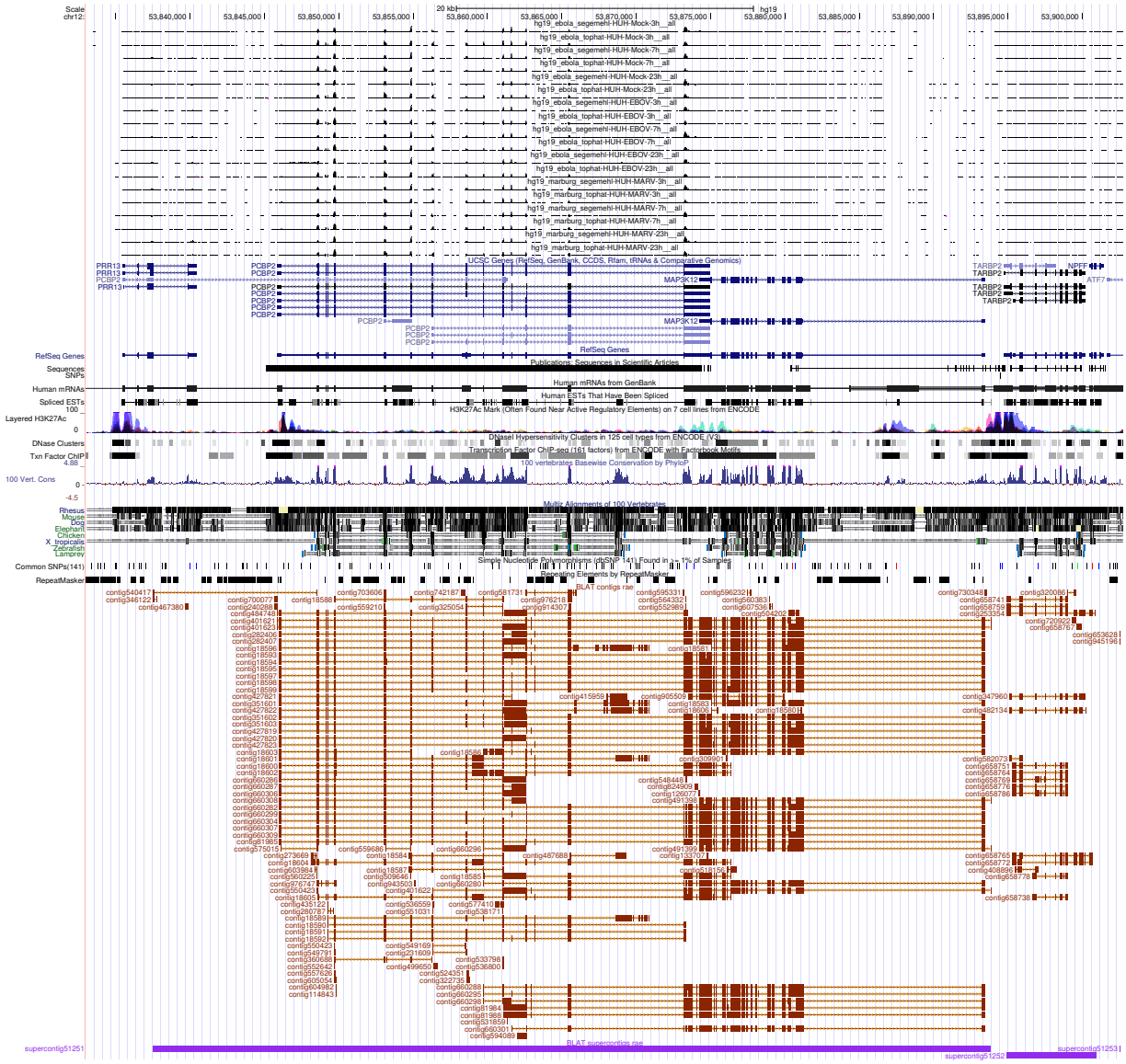

Figure 3: UCSC Genome Browser screenshot of gene MAP3K12.