1 DPYSL2

This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Well expressed in human cells, but significantly down-regulated in cells infected with Ebola after 23 h and slightly up-regulated in cells infected with Marburg. Generally well expressed in bat homolog.


chr8
49 kb
26,370 kb
26,380 kb
26,390 kb
26,400 kb
26,410 kb
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HUH7-Mock-7h.tophat.sorted.bam
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HUH7-EBOV-3h.tophat.sorted.bam overage
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HUH7-EBOV-7h.tophat.sorted.bam
HUH7-EBOV-23h.tophat.sorted.ba Coverage
HUH7-EBOV-23h.tophat.sorted.ba
HUH7-MARV-3h.tophat.sorted.bam overage
HUH7-MARV-3h.tophat.sorted.bam
HUH7-MARV-7h.tophat.sorted.bam overage
HUH7-MARV-7h.tophat.sorted.bam
HUH7-MARV-23h.tophat.sorted.ba Coverage
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HUH7-EBOV-3h.tophat.sorted.bam overage
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HUH7-EBOV-7h.tophat.sorted.bam overage
HUH7-EBOV-7h.tophat.sorted.bam
HUH7-EBOV-23h.tophat.sorted.ba Coverage
HUH7-EBOV-23h.tophat.sorted.ba
HUH7-MARV-3h.tophat.sorted.bam overage
HUH7-MARV-3h.tophat.sorted.bam
HUH7-MARV-7h.tophat.sorted.bam overage
HUH7-MARV-7h.tophat.sorted.bam
HUH7-MARV-23h.tophat.sorted.ba Coverage
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26,500 kb
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HUH7-Mock-3h.tophat.sorted.bam
HUH7-Mock-7h.tophat.sorted.bam overage
HUH7-Mock-7h.tophat.sorted.bam
HUH7-Mock-23h.tophat.sorted.bam Coverage
HUH7-Mock-23h.tophat.sorted.bam
HUH7-EBOV-3h.tophat.sorted.bam overage
HUH7-EBOV-3h.tophat.sorted.bam
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HUH7-EBOV-7h.tophat.sorted.bam
HUH7-EBOV-23h.tophat.sorted.ba Coverage
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HUH7-MARV-3h.tophat.sorted.bam overage
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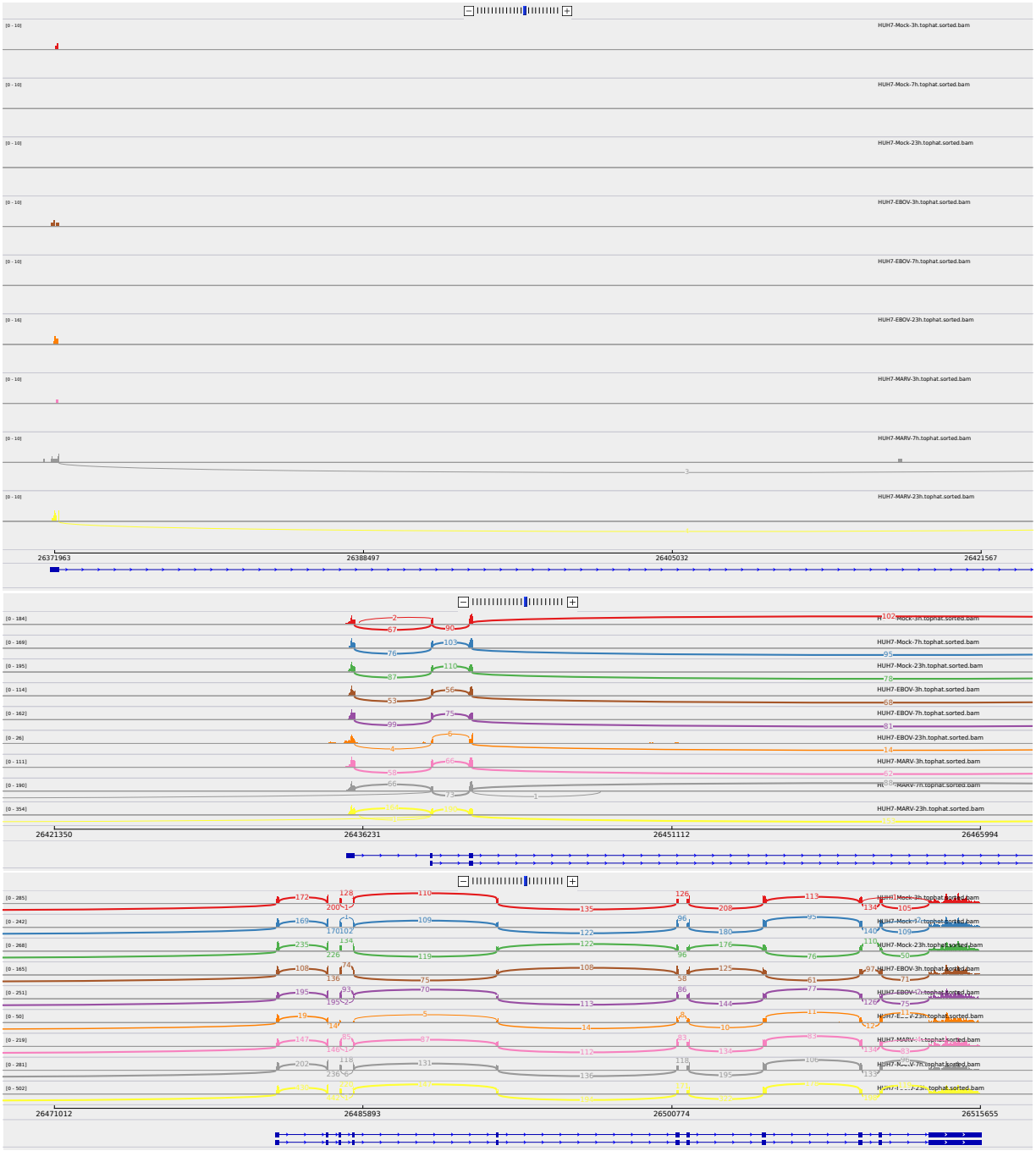

Figure 2: Sashimi plot of gene DPYSL2.

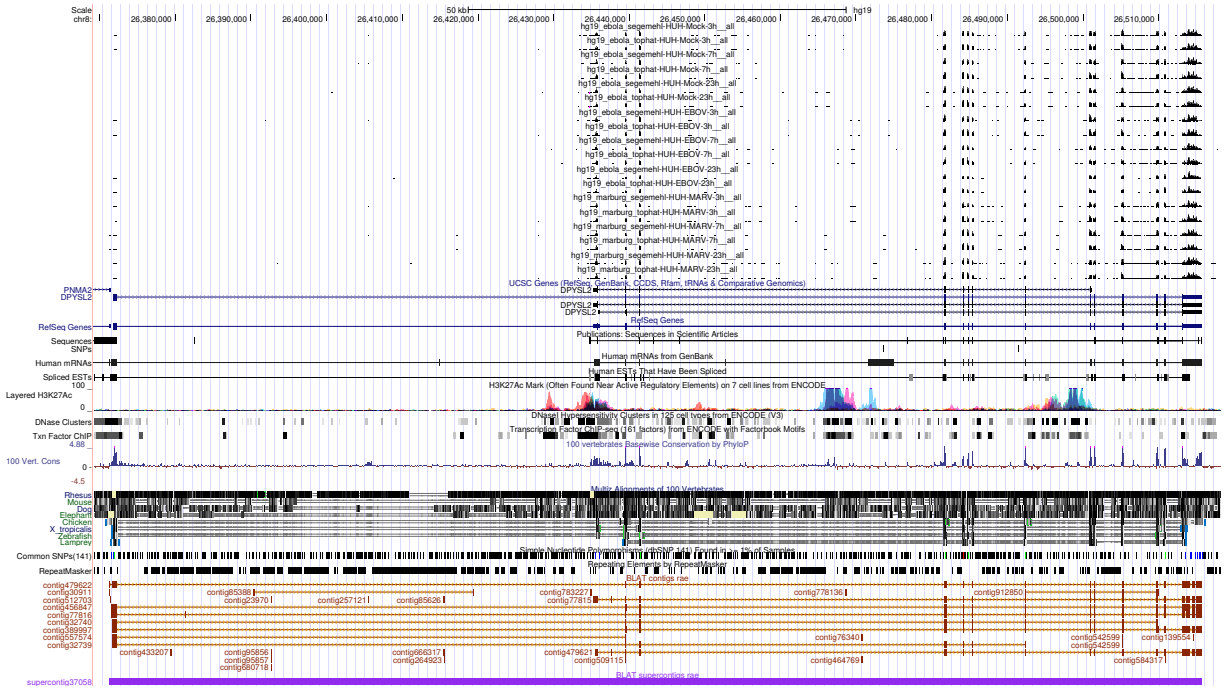

Figure 3: UCSC Genome Browser screenshot of gene DPYSL2.