1 IL13

This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.

IL13 seems to show a slight early upregulation due to Ebola virus infection in human. The probable bat IL13 counterpart shows an opposing trend in its expression pattern.

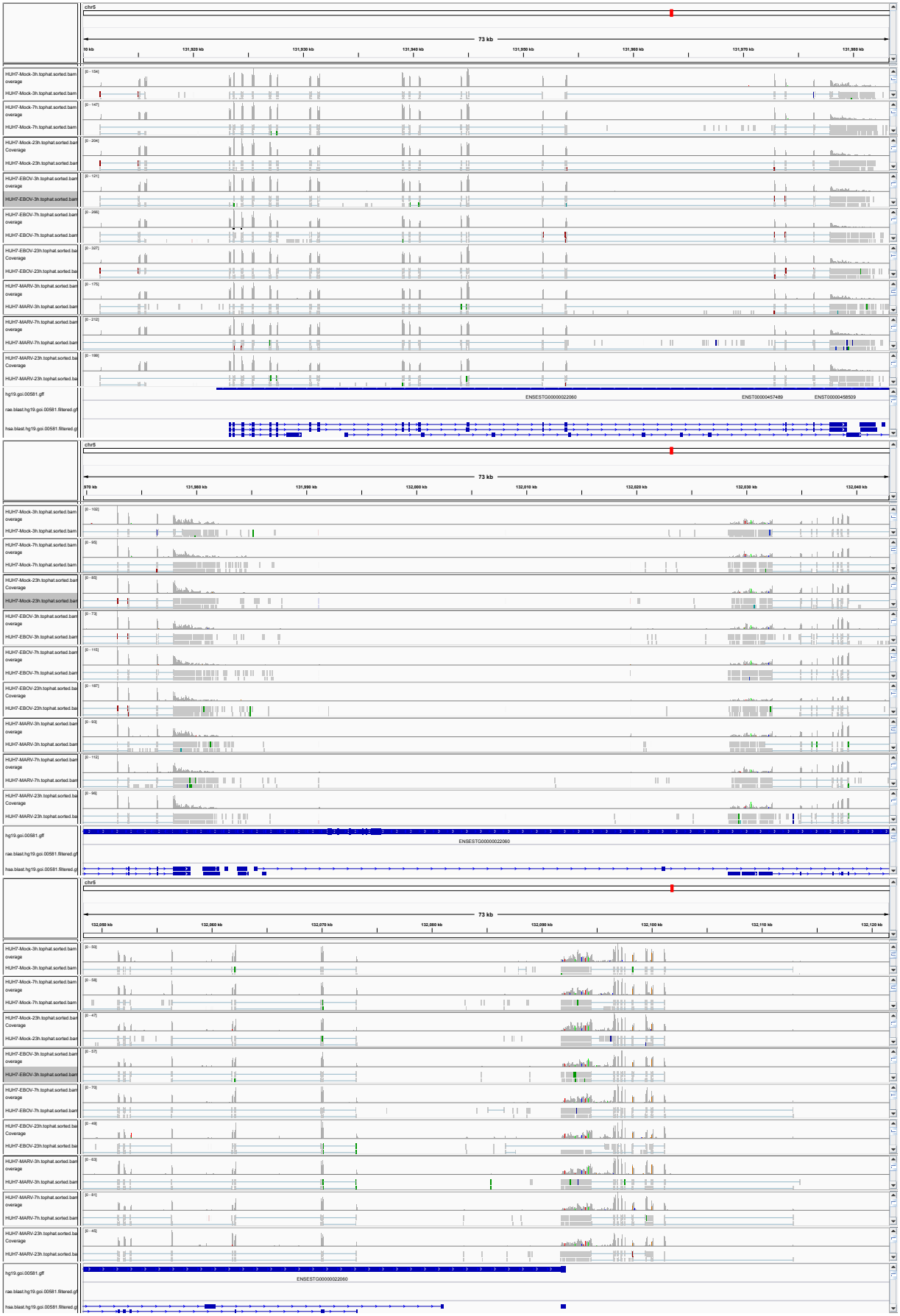
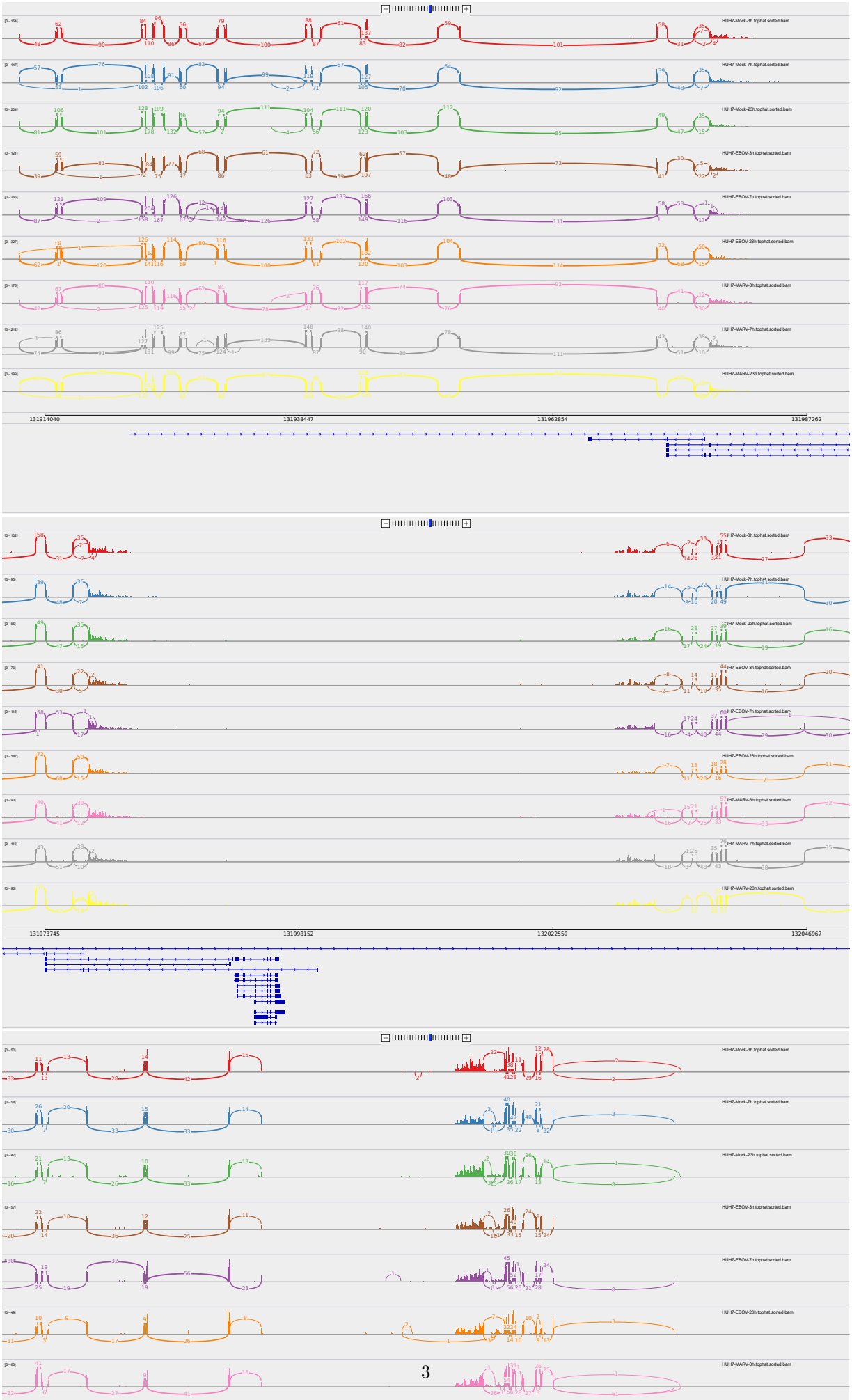


Figure 1: IGV Genome Browser screenshot of gene IL13.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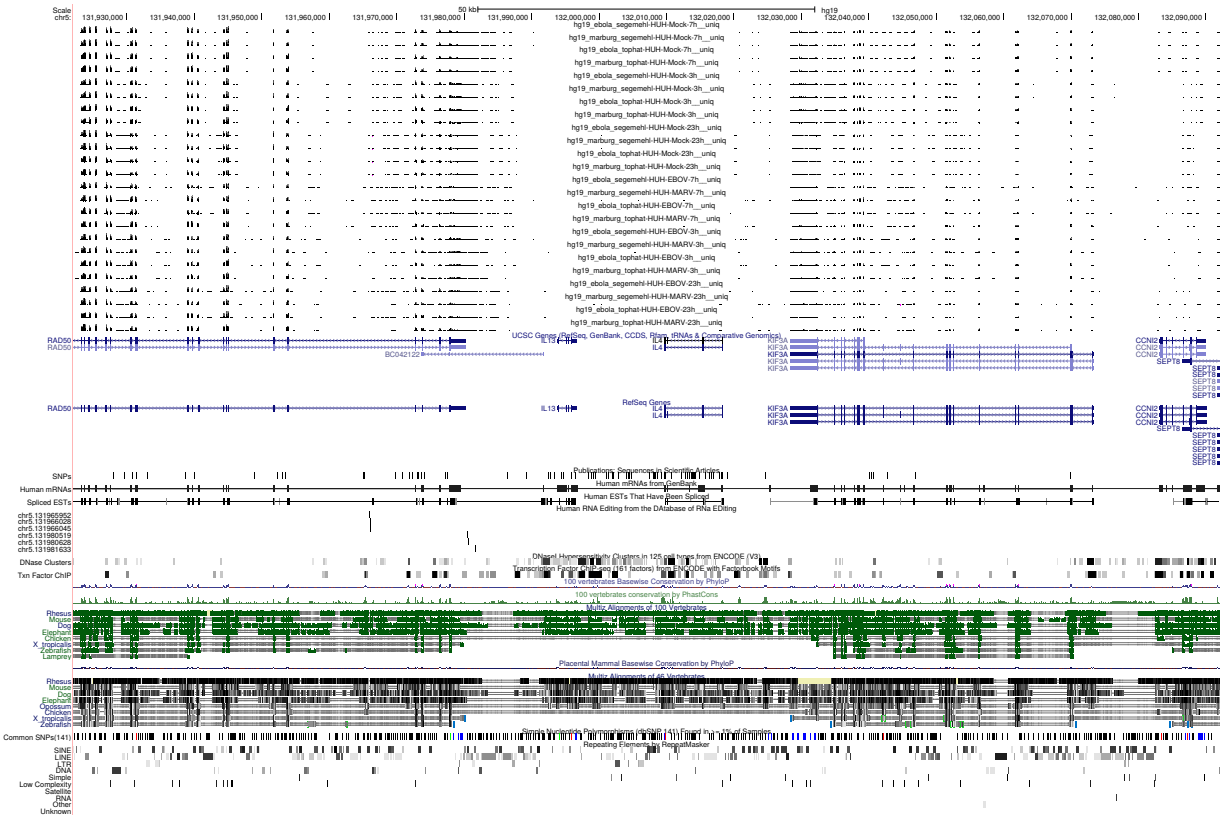

Figure 3: UCSC Genome Browser screenshot of gene IL13.