1 HOXD4

This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5' end of this cluster have been associated with severe limb and genital abnormalities. The protein encoded by this gene may play a role in determining positional values in developing limb buds.

This genes shows very low and quite noisy expression in human.

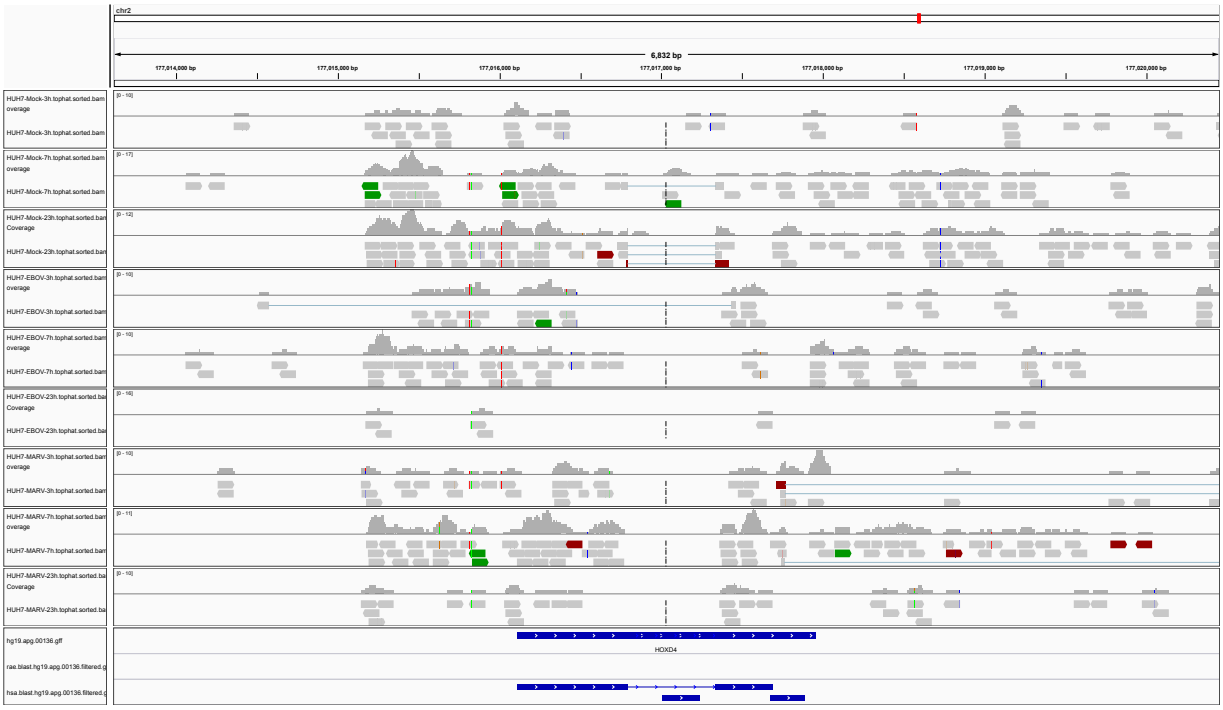

Figure 1: IGV Genome Browser screenshot of gene HOXD4.

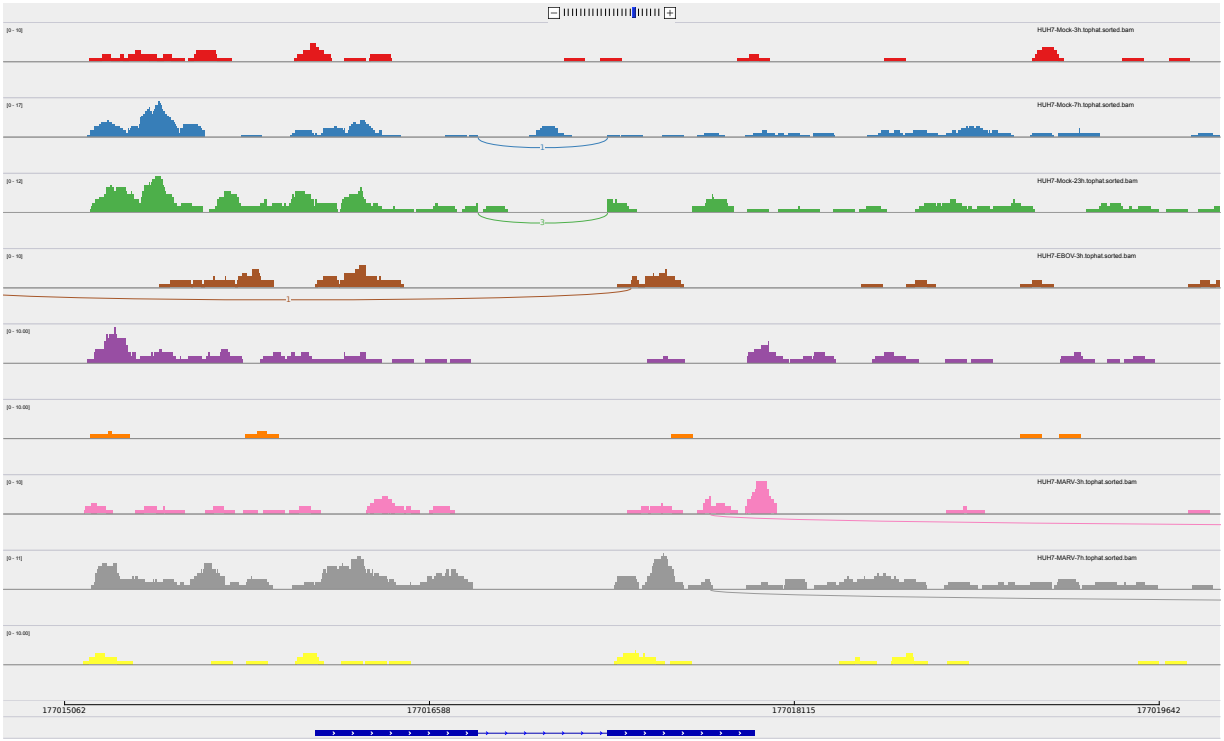

Figure 2: Sashimi plot of gene HOXD4.

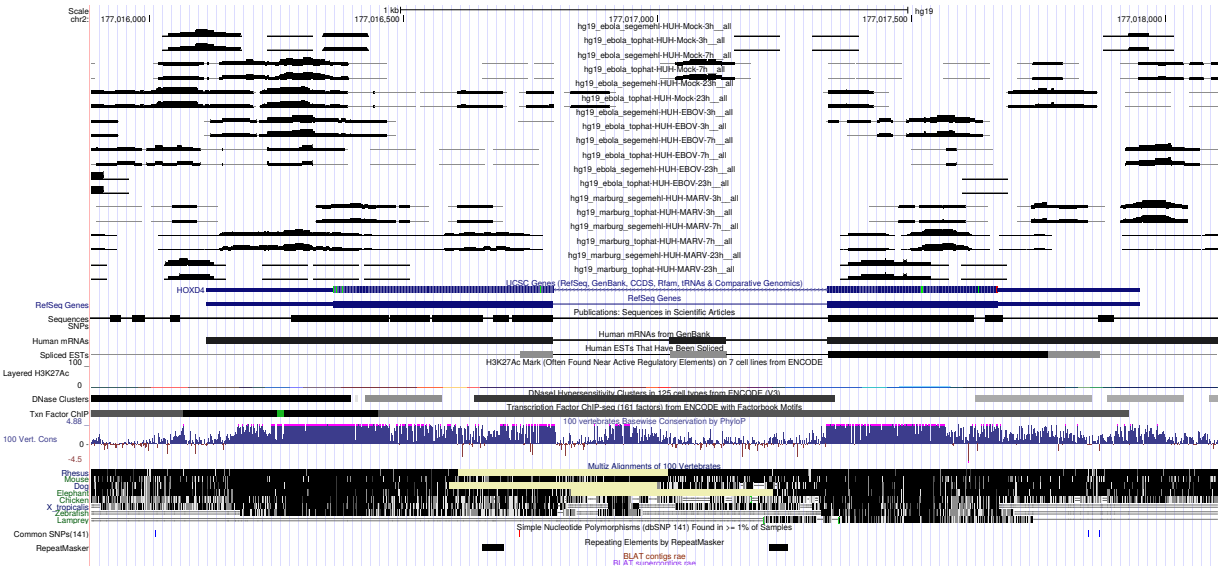

Figure 3: UCSC Genome Browser screenshot of gene HOXD4.