

1 AHR

This gene encodes a ligand-activated transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450 (e.g. activates CYP1A1). Its ligands included a variety of aromatic hydrocarbons. Mediates biochemical and toxic effects of halogenated aromatic hydrocarbons. Involved in cell-cycle regulation. Likely to play an important role in the development and maturation of many tissues. Regulates the circadian clock by inhibiting the basal and circadian expression of the core circadian component PER1. Inhibits PER1 by repressing the CLOCK-ARNTL/BMAL1 heterodimer mediated transcriptional activation of PER1.

Its expression pattern shows upregulation in human Ebola infected cells after 7 h and 23 h, whereas in the wildtype it is downregulated over time. The bat transcripts do not show differential expression.

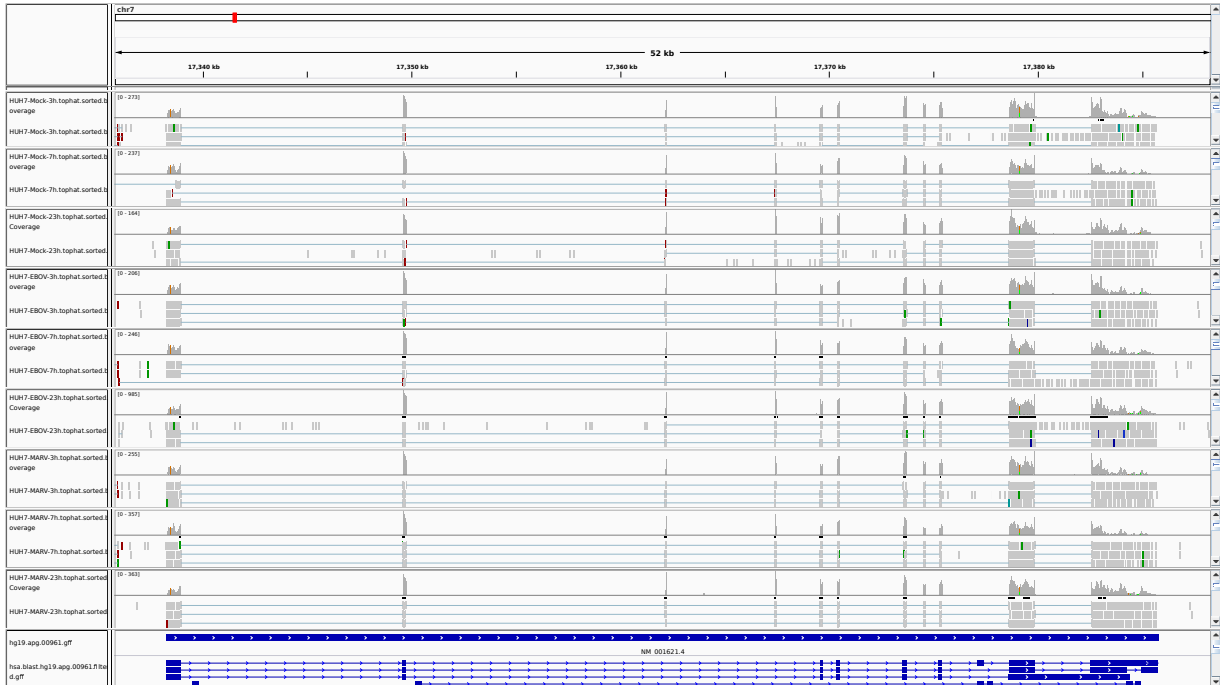


Figure 1: IGV Genome Browser screenshot of gene AHR.

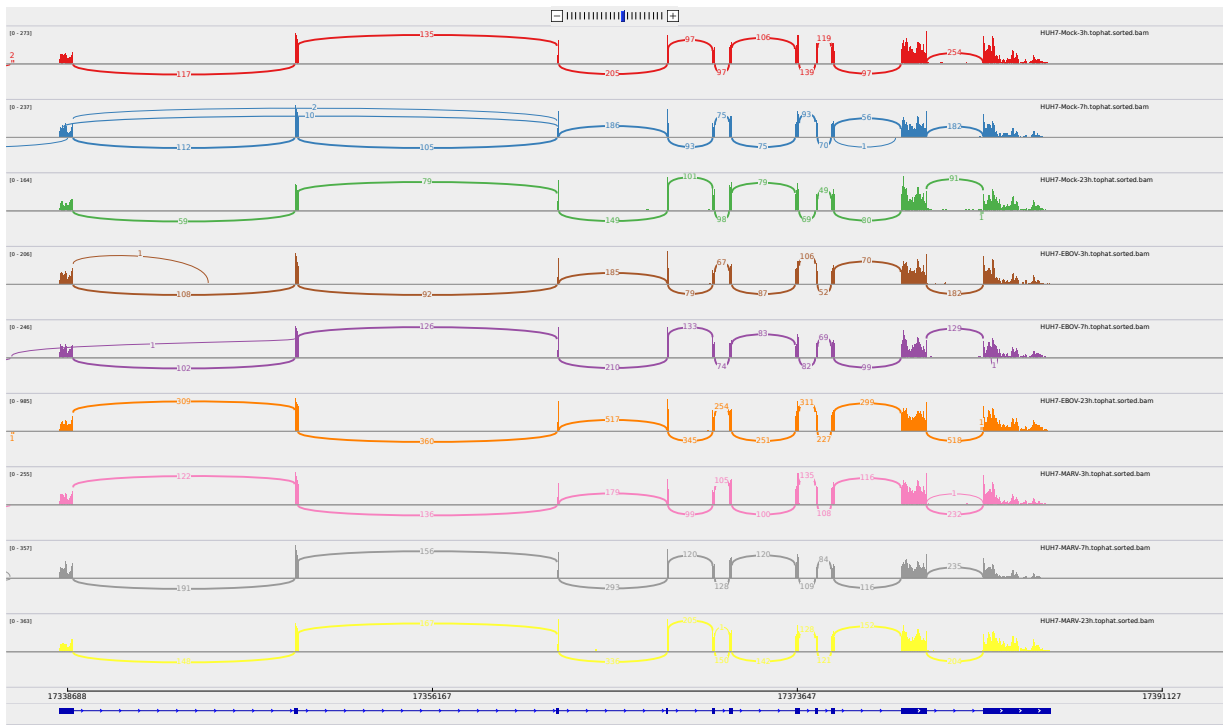


Figure 2: Sashimi plot of gene AHR.

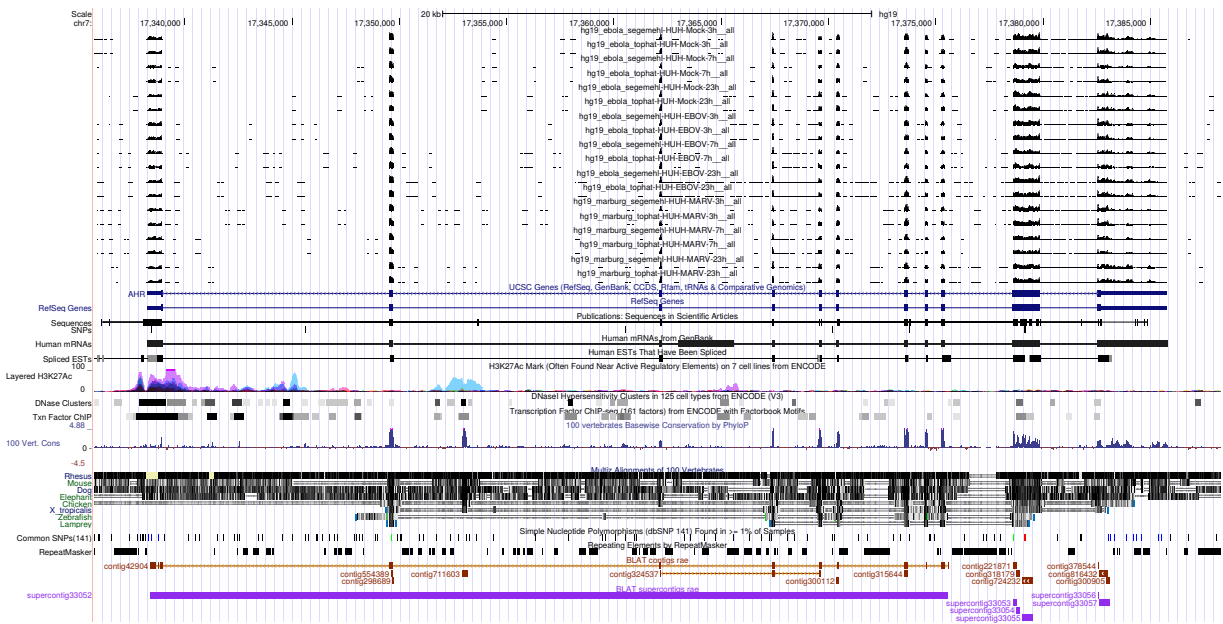


Figure 3: UCSC Genome Browser screenshot of gene AHR.