

1 SEPHS2

This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons. Genes encoding selenocysteine contain a stem-loop secondary structure in their 3' UTR called a selenocysteine insertion sequence (SECIS) element. The protein encoded by this gene contains a selenocysteine residue in its predicted active site. Gene is highly expressed in human, but downregulated in EBOV (4 fold) and MARV (2 fold) 23h data. The homolog in bat shows no significant expression change.

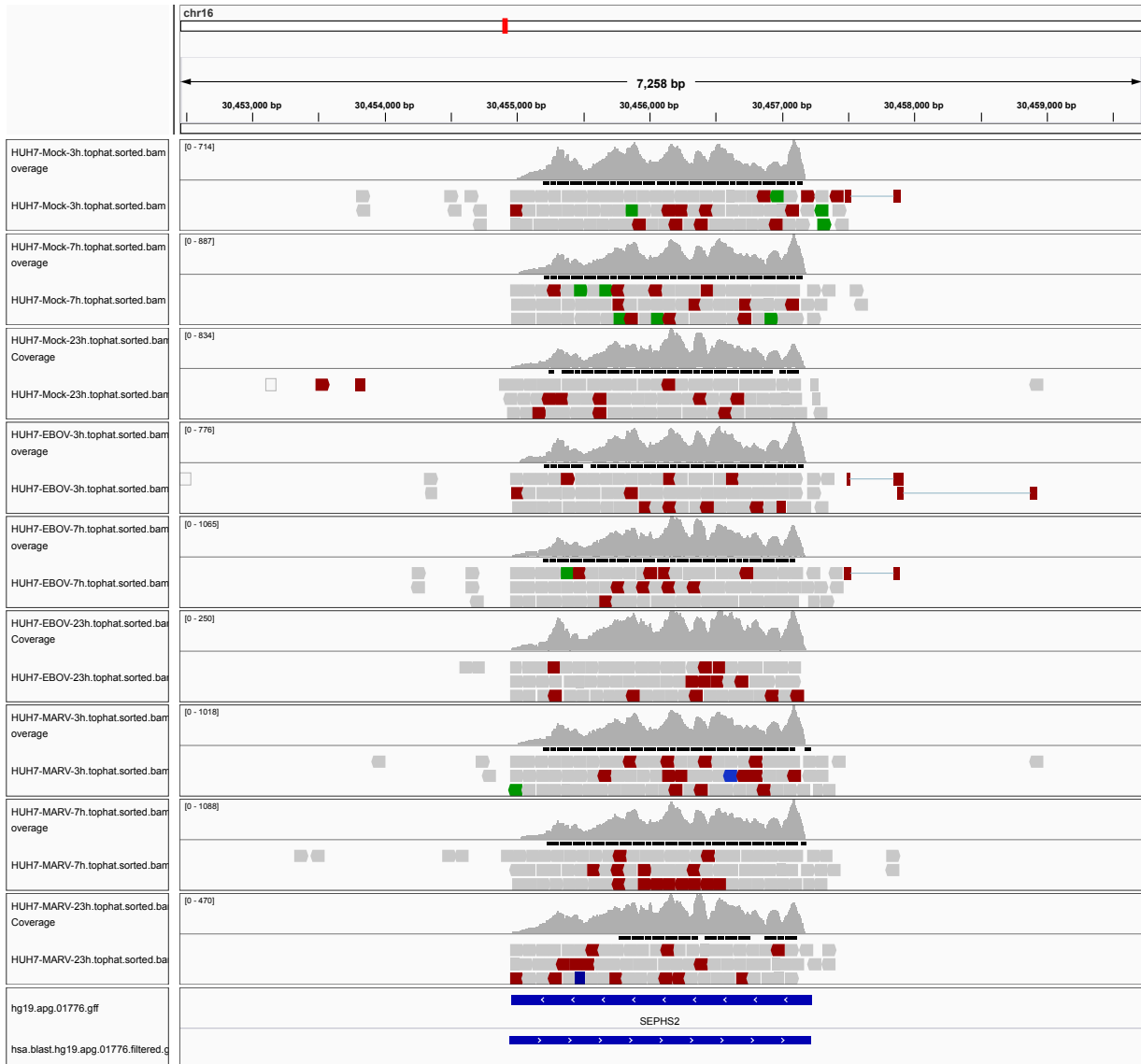


Figure 1: IGV Genome Browser screenshot of gene SEPHS2.

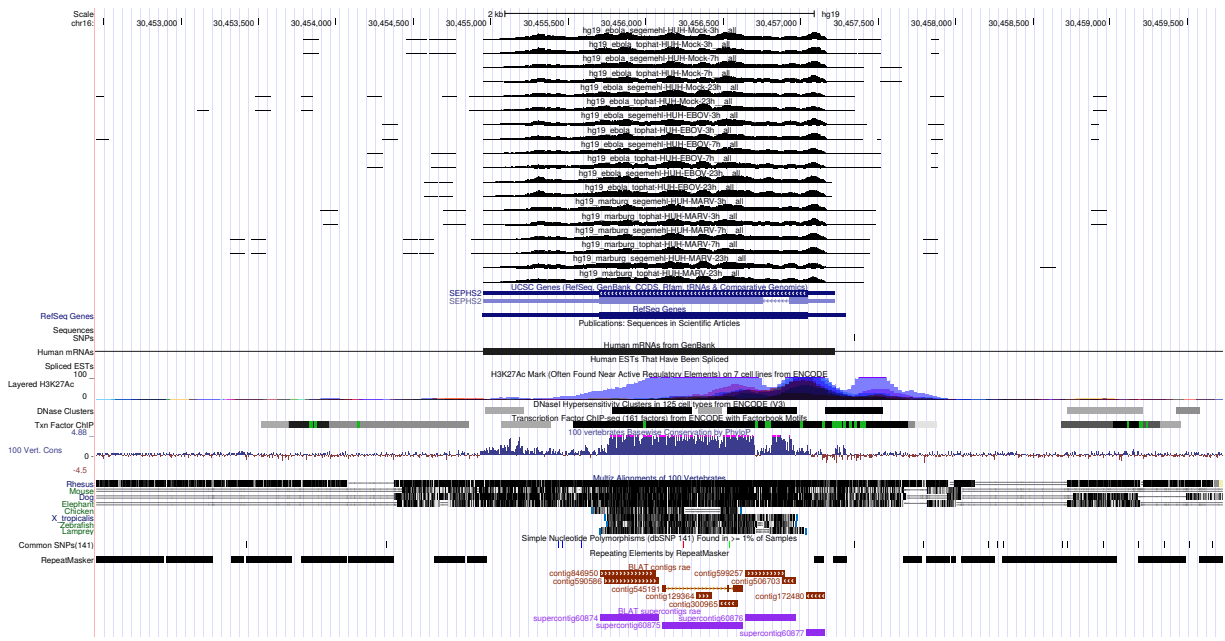


Figure 2: UCSC Genome Browser screenshot of gene SEPHS2.