

Product datasheet for **SC118151**

SUPT5H (NM_003169) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUPT5H (NM_003169) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUPT5H
Synonyms:	SPT5; SPT5H; Tat-CT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118151 sequence for NM_003169 edited (data generated by NextGen Sequencing)

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ATGTCGGACACGCGAGGACAGCAACTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGG
CCGAGGTAGACGAAGAGCGGCGGAGTGCAGCGGCGAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGA
GGAGGAAGAGGAGGAGGAATACGATGAGGAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCC
CGCCATGGAGGCTTCATTCTGGACGAGGCTGATGTTGACGATGAGTATGAGGACGAGGACCAGTGGGAGG
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AGATCGTTCTGGGCTCGCCGCTGCAAAACCTCTGGAGGGACCAGCGAGAAGAAGAACTGGGCGAGTAT
TACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGAGGATCTGATGAGCTCTCAGACG
ACATCACCCAGCAGCAGCTGCTCCCAGGAGTCAAGGATCCAATCTGTGGACTGTCAAATGTAAGATTGG
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ACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCCAT
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CGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAGACCTTCCAGGTG
 CTGAACATGTACGGGAAGGTGGTACTGTGACTGTGACCCGGAAGAAGGACAACCGCTTTG
 CTGTGGCCTTGGACTCAGAGCAGAAACATCCATGTGAAAGACATCGTTAAGGTCATTGATGGCCCCA
 CTCAGGCCGAGAAGGGGAGATTCCGCATCTTCCGAAGCTTCGCCTTCTACATTGCAAGAACTGGTG
 GAGAACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGGTGGGGGCTCAAAGCCCCGTATG
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 TCCGACGTGTACGGGGGCATGTCTGTGTACCTGAAGGACAGTGAGAAGTTGTGAGCATTCCAG
 TGAGCACCTGGAGCCTATCACCCCAACAAGAACAAGGTGAAAGTGTCTGGGCGAGGATCGGGAA
 GCCACGGGCGTCTACTGAGCATTGATGGTGGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCA
 AGATCTCAACCTCCGCTTCTGGGAAGCTCCTGGAAGCTGA

Clone variation with respect to NM_003169.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003169 unedited
 GTTACCATTGTATACGACTCACTATAGGCGGCCGATTCCGGCAGGGAACAGCAGCT
 GGTACCGAAGGCGGAGGTGGAGCCGAGAGGGAACAGCGGGAAACTGAGGCTCGGGGT
 GGAGCGCAGGATTGTGGACGCGCCAAGGCTGCTGTCTTCCAGCAGCAGCGGAAGATG
 TCGGACAGCGAGGACAGCAACTTTCCGAGGAGGAGGACAGCAGCGCAGCAGTACGGC
 GAGGAGCCGAGGTAGACGAAGAGCGGGGAGTGCAGCGGCGAGTGAAGAAAGAAAGAG
 CCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATACGATGAGGAAGAGGAGGAAGAA
 GATGATGACCGACCCCAAGAAACCCCGCATGGAGGCTTATTCTGGACGAGGCTGAT
 GTTGACGATGAGTATGAGGACGAGGACAGTGGGAGGATGGAGCAGAGGACATTCTAGAG
 AAAGAAGAGATTGAAGCCTCCAATATCGATAATGTTGCTCCTGGATGAAGATCGTTCTGGG
 GCTCGCCGCTGCAAAACCTCTGGAGGGACCAGCGAGAAGAAGAACTGGGCGAGTATTAC
 ATGAAGAAATACCCAAGTCATCTGTGGGAGAGACGGTGTATGGAGGATCTGATGAGCTC
 TCAGACGACATACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
 GTCAAATGTAAGATTGGGGAGGAACGGGCCACGGCCATTTCTTGATGCGCAAGTTCATT
 GCCTACCAGTTACAGACACGCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTG
 AAGGCCTACATCTACGTGGAAGCCTACAGCAGACCCACGTGAGCAGCCATTGAGGGGTTG
 GCAACCTGCCGCTTGCTACTGGAACAGCA

Protein Families: Transcription Factors

Gene Summary: Component of the DRB sensitivity-inducing factor complex (DSIF complex), which regulates mRNA processing and transcription elongation by RNA polymerase II. DSIF positively regulates mRNA capping by stimulating the mRNA guanylyltransferase activity of RNGTT/CAP1A. DSIF also acts cooperatively with the negative elongation factor complex (NELF complex) to enhance transcriptional pausing at sites proximal to the promoter. Transcriptional pausing may facilitate the assembly of an elongation competent RNA polymerase II complex. DSIF and NELF promote pausing by inhibition of the transcription elongation factor TFIIIS/S-II. TFIIIS/S-II binds to RNA polymerase II at transcription pause sites and stimulates the weak intrinsic nuclease activity of the enzyme. Cleavage of blocked transcripts by RNA polymerase II promotes the resumption of transcription from the new 3' terminus and may allow repeated attempts at transcription through natural pause sites. DSIF can also positively regulate transcriptional elongation and is required for the efficient activation of transcriptional elongation by the HIV-1 nuclear transcriptional activator, Tat. DSIF acts to suppress transcriptional pausing in transcripts derived from the HIV-1 LTR and blocks premature release of HIV-1 transcripts at terminator sequences.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Variants 1, 2, 3, and 5 all encode the same isoform (a).