

Product datasheet for RC201196

SUPT5H (NM_003169) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUPT5H (NM_003169) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SUPT5H
Synonyms:	SPT5; SPT5H; Tat-CT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201196 representing NM_003169 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC201196 representing NM_003169
 Red=Cloning site Green=Tags(s)

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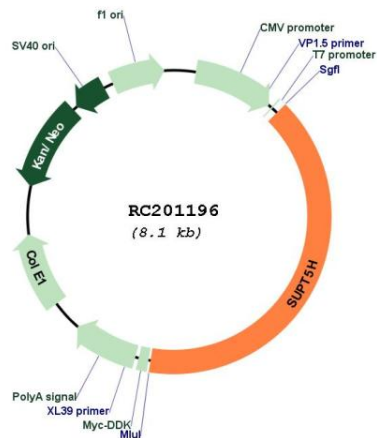
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Restriction Sites:

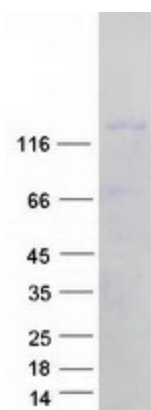
Sgfl-MluI

Cytogenetics:	19q13.2
Domains:	Supt5, KOW, NGN, KOW
Protein Families:	Transcription Factors
MW:	120.8 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC201196



Coomassie blue staining of purified SUPT5H protein (Cat# [TP301196]). The protein was produced from HEK293T cells transfected with SUPT5H cDNA clone (Cat# RC201196) using MegaTran 2.0 (Cat# [TT210002]).