

## Product datasheet for **SC325390**

### SUPT5H (NM\_001130824) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SUPT5H (NM\_001130824) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SUPT5H  
**Synonyms:** SPT5; SPT5H; Tat-CT1  
**Vector:** pCMV6 series

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001130824, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGACAGCGAGGACAGCACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGAC
GGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGGAGTGCAGCGGGCAGTGAGAAAGAAGAA
GAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATACGATGAGGAAGAGGAGGAA
GAAGATGATGACCGACCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCT
GATGTTGACGATGAGTATGAGGACGAGGACCAAGTGGGAGGATGGAGCAGAGGACATTCTA
GAGAAAGAAGAGATTGAAGCCTCAATATCGATAATGTTGTCCTGGATGAAGATCGTTCT
GGGGCTCGCCGCTGCAAAACCTCTGGAGGGACCAGCGAGAAGAAGAACTGGGCGAGTAT
TACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGAGGATCTGATGAG
CTCTCAGACGACATCACCCAGCAGCAGCTGCTCCCAGGAGTCAAGGATCCCAATCTGTGG
ACTGTCAAATGTAAGATTGGGGAGGAACGGGCCACGGCCATTTTCCTTGATGCGCAAGTTC
ATTGCCTACCAGTTCACAGACACGCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCAT
GTGAAGGGCTACATCTACGTGGAGGCTACAAGCAGACCCACGTGAAGCAGGCCATTGAG
GGGGTGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCCATCAAGGAGATG
ACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACTGAAACCAAAGTCTGGGTCCGC
CTCAAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCAGCCAG
AACACCATCTCCCTGAAGATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATG
AGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAGTTTAAGCGGCCTCCACAGAGGCTGTTT
GATGCTGAGAAGATCAGGTCCCTGGGGGTGATGTTGCCTCTGATGGTGACTTCCTCATC
TTTGAGGGGAACCGTTACAGCCGGAAGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCT
GTGATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCA
GAGGGCATTGACCTGGAGGTGGTACTGAGAGCACAGGGAAGGAGCGGGAGCACAACTTC
CAACCTGGGACAACGTGGAGGTCTGTGAGGGTGAAGTCACTCAACCTGCAGGGCAAGATC
CTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAGCATGAGGACCTCAAGGACATG
TTGGAGTCCCAGCCAGGAACCTAGAAAATACTTCAAGATGGGGGACCAGTGAAGGTG
ATTGCTGGCCGATTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTCTGTT
ATCCTGTTCTCTGACCTACCATGCATGAGCTGAAGGTGCTCCCCGGGACCTGCAGCTC
TGCTCAGAGACAGCATCAGGTGTGGATGTTGGGGGCCAGCATGAATGGGGCGAGCTGGTG
CAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAGACCTTCCAGGTG
CTGAACATGTACGGGAAGGTGGTACTGTCAGACATCAGGCTGTGACCCGGAAGAAGGAC

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AACCGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACAACATCCATGTGAAAGACATCGTT  
 AAGGTCATTGATGGCCCCACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTCCGAAGC  
 TTCGCCTTCTACATTGCAAGAACTGGTGGAGAACGGGGGATGTTTGTCTGCAAGACC  
 CGCCACCTGGTGTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAACTCACCCTGGGT  
 GGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGTGGAGTGTGAG  
 CGTGGCGGCTTTGGTAGCCAGGTGGCGCAGTGGTGGCATGAGCAGGGGCCGGGGCCGG  
 AGGGACAACGAACTCATCGCCAGACCCGTGCGCATCTCCAGGGGCCCTACAAAGGCTAC  
 ATCGGTGTGGTGAAAGATGCCACAGAGTCCACGGCCCGTGTGGAGCTGCACTCCACCTGC  
 CAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGGCGCCCGGGCGGC  
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 GGCTCCCGAACCCCATGTACGGCTCACAGACCCCTCCAGGATGGTAGCCGCACCCCA  
 CACTACGGCTCACAGACGCCCTGCATGATGGCAGCCGCACTCCTGCCAGAGTGGGGCC  
 TGGGACCCCAACAACCCCAACACGCGTACGGGCTGAGGAAGAATATGAGTATGCTTTC  
 GATGATGAGCCACCCCTCCCCGAGGCTATGGGGAAACCCCAATCCCAAACACCT  
 GGCTACCCAGACCCCTCGTCCCCACAGGTCAACCACAATAACAACCCGCAGACGCCAGGG  
 ACGCCGGCCATGTACAACACAGACCAGTTCTCTCCTATGCTGCCCCCTCCACACAGGT  
 TCTACCAGCCCAGCCCAGCCCCAGAGCTACCACCAGGTGGCGCAAGCCCAGCAGGC  
 TACCAGAAATACCACTCCCAGCCAGCTACCACCTACACCGTCGCCATGGCCTATCAG  
 GCTAGCCCAGCCGAGCCCGTTGGCTACAGTCTATGACACCTGGAGTCCCTCCCCT  
 GGTGGCTACAACCACACAGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTA  
 ACCACTGACATTACAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAG  
 ACAGGTGTATCCGCAGTGTACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGTGAG  
 AAGGTTGTGAGCATTTCAGTGTGAGCAGTGGAGCCTATCACCCCAAGAACAACAAG  
 GTGAAAGTGATCCTGGGGGAGGATCGGGAAGCCACGGGCGTCTACTGAGCATTGATGTT  
 GAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTC  
 CTGGGGAAGCTCCTGGAAGCC

- Restriction Sites:** Please inquire
- ACCN:** NM\_001130824
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM\\_001130824.1](#), [NP\\_001124296.1](#)

RefSeq Size: 3659 bp

RefSeq ORF: 3264 bp

Locus ID: 6829

UniProt ID: [O00267](#)

Cytogenetics: 19q13.2

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 (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 5 all encode the same isoform (a).