

## Product datasheet for MR200514

### Supt4b (NM\_011509) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Supt4b (NM\_011509) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Supt4b  
**Synonyms:** 100041294; Gm3258; Supt4h1b; Supt4h2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200514 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCTGGAGACGGTACCAAAGGACCTGCGGCATCTGCGGGCTTGTTGCTGTGCTCGTTAGTCAAGA  
 CTATAGACCAGTTCGAATATGATGGGTGTGACAATTGCGATGCATACCTACAAATGAAGGGCAACAGAGA  
 GATGGTTTATGACTGCACCAGCTCTTCATTTGATGGAATCATTGCGATGATGAGTCCAGAGGACAGCTGG  
 GTCTCCAAGTGGCAGCGAGTCAGTAACTTAAGCCAGGTGTATATGCTGTGTCCGTCCTGGTCCGCTGC  
 CCAAGGAATCGTGGGAGCTGAAAAGTCGAGGAGTGGCCTACAAATCCAGAGACACAGCAATAAAGAC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200514 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MALETVPKDLRHLRACLLCSLVKTIQFEYDGCNCDAYLQMKGNREMYDCTSSSFDGIIAMSPEDSW  
 VSKWQVRVSNFKPGVYAVSVTGRLPQGIIVRELKSRGVAYKSRDTAIKT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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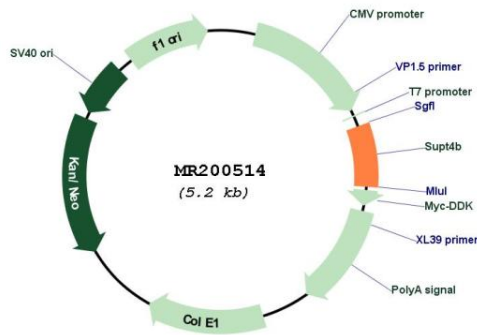
UniProt ID: [Q9Z199](#)

Cytogenetics: 10 17.4 cM

MW: 13.2 kDa

**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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200514