

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 Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR200514 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCCTGGAGACGGTACCAAAGGACCTGCGGCATCTGCGGGCTTGTTTGCTGTCTCGTTAGTCAAGA CTATAGACCAGTTCGAATATGATGGGTGTGACAATTGCGATGCATACCTACAAATGAAGGGCAACAGAGA GATGGTTTATGACTGCACCAGCTCTTCATTTGATGGAATCATTGCGATGATGAGTCCAGAGGACAGCTGG GTCTCCAAGTGGCAGCGAGTCAGTAACTTTAAGCCAGGTGTATATGCTGTGTCCGTCACTGGTCGCCTGC CCCAAGGAATCGTGCGGGAGCTGAAAAGTCGAGGAGTGGCCTACAAATCCAGAGACACAGCAATAAAGAC

С

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200514 protein sequence

Red=Cloning site Green=Tags(s)

MALETVPKDLRHLRACLLCSLVKTIDQFEYDGCDNCDAYLQMKGNREMVYDCTSSSFDGIIAMMSPEDSW

VSKWQRVSNFKPGVYAVSVTGRLPQGIVRELKSRGVAYKSRDTAIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

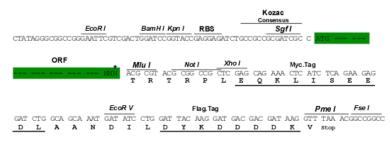
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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_011509

ORF Size: 354 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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 011509.1, NM 011509.2, NP 035639.1

 RefSeq Size:
 710 bp

 RefSeq ORF:
 354 bp

 Locus ID:
 100041294



UniProt ID: Q9Z199 Cytogenetics: 10 17.4 cM MW: 13.2 kDa

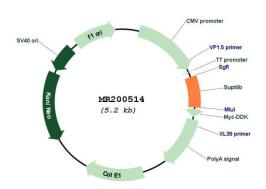
Component of the DRB sensitivity-inducing factor complex (DSIF complex), which regulates **Gene Summary:**

> 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 TFIIS/S-II. TFIIS/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