

Product datasheet for **MR208520**

Supt20 (NM_019995) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Supt20 (NM_019995) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Supt20
Synonyms:	AA667204; AI450544; D3Ertd300e; Fam48a; p38IP; Supt20h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208520 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAACAAGCTGTAGAACAAGCTTTGGATTGCGCAGAGTACATCGTGGAAAGTGCTCAGCAGAGACCTC
 CTAAGAAAGAAATACCTGTCTAGTGAAGAAAGTCTATATTTCAAAAACCTTATGACTTATATGTTGAAGA
 ATGTGAAAAAGAACCCGAGGTTAAGAAATTAAGAAGAAATGTGAACTTGTAGAGAAGCTTGTATGCGAG
 GAGACTTTGTCGTGTTTAGTAGTCAATCTGTACCCAGGAAATGAAGGCTATTCTCTGATGCTCAGGGGA
 AAAATGGATCAGATTCTGAGACCATCCGATTGCCTTATGAAGAAGGAGAATTGCTTGAATACTTAGATGC
 AGAAGAATTACCTCCTATTTGGTGGATCTCCTTGAAAAATCACAGGTTAATATTTTTTCATTGTGGATGT
 GTGATAGCAGAAATACGTGACTATAGGCAGTCCAGTAATGAAGTCTCCTGGTTACCAAAGTAGGCACA
 TTCTCTTACGTCCAACAATGCAGACTTTAGTCTGTGATGTCCATTCTATAACAAGTGACAACCATAAGTG
 GACCCAGGAAGACAACTTTTGGCTTGAGAGCCAGCTGATTCTAGCTACAGCAGAGCCACTGTGCTTGAC
 CCATCGGTGGCAGTAGCGTGCCTGCAATAGGCTGCTCTATAACCGGCAGAAGTGAACACTCGCCCAA
 TGAACCGTGTGGAAAGAGGTAAGTCCAGGTCCTCCCTGAACCGCCAGCAGGACCTCTCTACGGCCCTCC
 TCCCCCTCAGCTGAGACTACTTGATTTCTTACAAAAGCGGAAGGAAAGGAAAGCAGGCCAGCATTATGAC
 CTCAAAATTTCCAAGCAGGAAATGTGTAGACATGTGGAACCGGAGCCCTGTAAGTGGCTGTGCCTT
 CTGAAGTAGATGTGGAATAATGTCAAAGTGGAGGAATCCATCAAACTGACGACTCACAGCCAACAAT
 GTGGCCAGCTCATGATGTAAAAGACGATTATGTATTTGAATGTGAAGGTGGTAATCAGTATCAGAAAAA
 AAGTGACCATCTTGCAGTCTCTGGGGTCCACTTTACTATGGTAAAAACAGCCGTGGAAAGCAGATG
 AAGAAAAAGCAGCCAAATGTCTCCATCCACTCCTCTGCTGATGACCATTCAAAGTGGTTGCTTGG
 GTCAAAGACTGACGCAGAGAGGGTAGTTAATCAATACCAGGAGTTGGTCCAGAATGAAGCCAAATGCCCA
 GTGAAGATGTACACAGCAGTAGTGTTTCAAGCCCTCTCAGTCCAGGGGAGGAGGAGAACAGGCGGAGA
 CCTCGTCCATTAGTCTTCAAGTTTGGGAAAGGAGTAAAACACCGACCCCAACCATCAAAGTCCCTC
 AGGCTCAGGAAATAGTTCCTCAGGTAATTTTACAGCACAGCAGGCCAGCAGTTCCTTAAATCTCCA
 ACTCCTCCTCCATCGTGAAGCCAAGCCTTTCTCGGAAGTCTTCTGTGGACCTCAGTCAAGTTAGCATGC
 TTTCTCCTGCCGCCCTGTCCCCTGCCAGCTCATCCAGAGACATGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208520 protein sequence
 Red=Cloning site Green=Tags(s)

MQQAVEQALDCAEYIVESAQQRPPKRYLSSGRKSIFQKLYDLVVEECEKEPEVKKLRRNVNLLLEKLVMQ
 ETLSCLVNLYPNEGYSMLRGKNGSDSETIRLPYEEGELLEYLDAEELPPILVDLLEKSQVNIFFHCGC
 VIAEIRDYRQSSNMKSPGYQSRHILLRPTMQTLVCDVHSITSDNHKWTQEDKLLLESQILATAEPLCLD
 PSVAVACTANRLLYNRQKMNTRPMKRCWKRYSSSLNRQQDL SHGPPPPQLRLDFLQKRKERKAGQHYD
 LKISKAGNCVDMWRSPCNLAVPSEVDVEKYAKVEESIKSDDSQPTMWP AHDKDDYVFECEGNNQYQKT
 KLTIQLSLGDPLYYGKIQPWKADEENDSQMSPSHSADDHSNWFVIGSKTDAERVVNQYQELVQNEAKCP
 VKMSHSSSGSAALSPGEEAEQAETSSIQSSVLGKGVKHRPPPIKLP SSGSGNSSSGNYFTAQASSFLKSP
 TPPPSCPSLSRKSSVDLSQVSM SPAALSPASSQRHES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019995

ORF Size: 1593 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_019995.1](#), [NM_019995.2](#), [NM_019995.3](#), [NP_064379.1](#)

RefSeq Size: 1968 bp

RefSeq ORF: 1596 bp

Locus ID: 56790

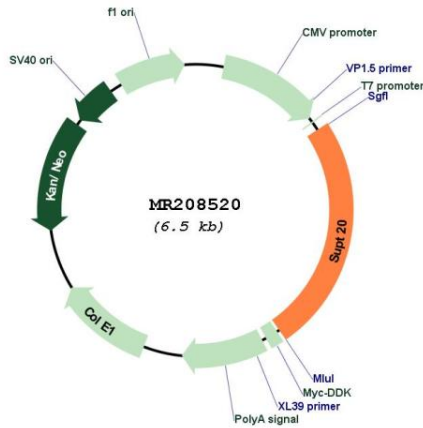
UniProt ID: [Q7TT00](#)

Cytogenetics: 3 C

MW: 59.5 kDa

Gene Summary: Required for MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) activation during gastrulation. Required for down-regulation of E-cadherin during gastrulation by regulating E-cadherin protein level downstream from NCK-interacting kinase (NIK) and independently of the regulation of transcription by FGF signaling and Snail. Required for starvation-induced ATG9A trafficking during autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208520