

Product datasheet for **RC225802**

MSF (SEPT9) (NM_001113495) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001113495) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MSF
Synonyms:	AF17q25; MSF; MSF1; NAPB; PNUTL4; SEPT9; SeptD1; SINT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225802 representing NM_001113495
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTCAAGTTTCTGGGAAGGCTGCAGGTGGCCGTAGGGCTGCCCGAGGGTCTGGCCCCAGGGTCT
 TGGATTACAGGGAGCCTGCAGAGGGAGGGCAGCTGGAGGCTGCTCCAGTGTGCATTGTTACGAGGCAAAG
 TAAGGAGACTGCTGGGCCACGCTGGGCCGGGGTGGATGGAGGCAAGGAAGTCTTCGCCGGGCAAGGGC
 ACCAGCTGTAGATGCCGGCAGCTTTCTCCTGGACACGGGCCTGGAAGGCTGACAGGGTGTGGTGAAGTGC
 ACCGGCTCCCCTGCCGTGGCCTGGTCACTGGCTTACAGGCTCCGTGGCAGGAGGAGGATGACCTTGC
 ATTCTGCTGGCCACCATTGGCAGTGACAGACAAGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATG
 GCCGACACCCCAAGAGATGCCGGGCTCAAGCAGGCGCTGCATCACGGAACGAGAAGGCCCGGTGGACT
 TCGGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTT
 CAACATCATGGTGGTGGGCGAGAGCGGCTTGGGTAAATCCACCTTAATCAACACCCTCTTCAATCCAAA
 ATCAGCCGGAAGTCGGTGCAGCCACCTCAGAGGAGCGCATCCCAAGACCATCGAGATCAAGTCCATCA
 CGCAGATATTGAGGAGAAAGGCGTCCGGATGAAGCTGACAGTATTGACACACCAGGGTTCGGGGACCA
 CATCAACAACGAGAACTGCTGGCAGCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTGCAG
 GAGGAGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCCCGTCCACTGCTGCCTCTACTTTCATCC
 CCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCTGAGCAAGTGGTCAACAT
 CGTCCCTGTATCGCCAAGGCGGACACTCACCTGGAGGAGAGGGTCCACTTCAAACAGCGGATCACC
 GCAGACCTGCTGCCAACGGCATCGACGTGTACCCCAAGAAGAAATTTGATGAGGACTCGGAGGACCGGC
 TGGTGAACGAGAAGTTCGGGAGATGATCCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGTCAA
 CGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACTGTGAG
 TTTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGATCC
 ACTTCGAGGCGTACCGTGTGAAGCGCTCAACGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAA
 GGAGCCAGAAGCCCCGGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225802 representing NM_001113495
 Red=Cloning site Green=Tags(s)

MGSSFWELQVAVGLPQGCWPQGLDSGEPAEQQLEAAPVCIVTRQSKETAGPTLGRGGWRQGLRRGKG
 TSCRCRQLSPGHGPGRLTGCGECHRLPCRGLVSGFTGLRGQEEDDLAFCLATIGSDRQATEAAPSCVGM
 ADTPRDAGLKQAPASRNEKAPVDFGYVIGIDSILEQMRKAMKQGFENIMVVGQSLGKSTLINTLFKSK
 ISRKSVQPTSEERIPKTIKSIKTHDIEEKGVKMLTVIDTPGFDHINNENCWQPIMKFINQYKYLQ
 EEVNIINRKRIPDTRVHCLYFIPATGHSRPLDIEFMKRLSKVNIIPVIAKADTLLEERVHFKQRIT
 ADLLSNGIDVYPQKFEDESEDRLVNEKFRMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTHCE
 FAYLRDLLIRTHMQNIKIDITSSIHFEAYRVKRLNEGSSAMANGMEEKEPEAPEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_c06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001113495

ORF Size: 1422 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_001113495.1](#), [NP_001106967.1](#)

RefSeq ORF: 1008 bp

Locus ID: 10801

UniProt ID: [Q9UHD8](#)

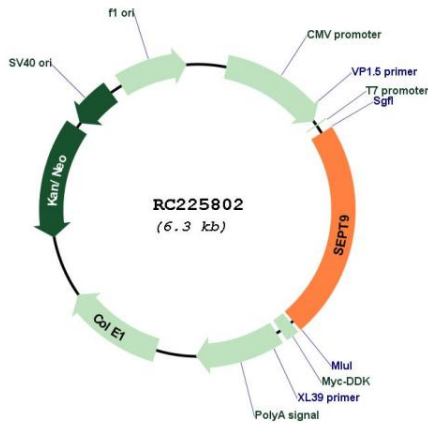
Cytogenetics: 17q25.3

Protein Families: Druggable Genome

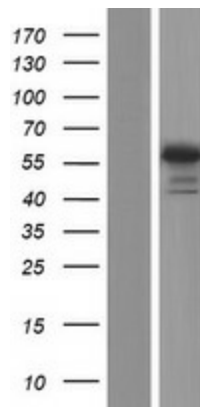
MW: 52.7 kDa

Gene Summary: This gene is a member of the septin family involved in cytokinesis and cell cycle control. This gene is a candidate for the ovarian tumor suppressor gene. Mutations in this gene cause hereditary neuralgic amyotrophy, also known as neuritis with brachial predilection. A chromosomal translocation involving this gene on chromosome 17 and the MLL gene on chromosome 11 results in acute myelomonocytic leukemia. Multiple alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Mar 2009]

Product images:



Circular map for RC225802



Western blot validation of overexpression lysate (Cat# [LY426421]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225802 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).