

Product datasheet for **RC225979**

MSF (SEPT9) (NM_001113493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001113493) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC225979 representing NM_001113493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGACCCCGCGGTCAACGCGCAGCTGGATGGGATCATTTCGGACTTCGAAGCCTTGAAAAGATCTT
 TTGAGGTCGAGGAGGTCGAGACCCCAACTCCACCCACCCCGGAGGGTCCAGACTCCCCTACTCCGAGC
 CACTGTGGCCAGCTCCACCCAGAAATCCAGGACCTGGGCGTGAAGAACTCAGAACCCTCGGCCCGCCAT
 GTGGACTCCCTAAGCCAACGCTCCCCAAGGCGTCCCTGCGGAGGGTGGAGCTCTCGGGCCCAAGGCGG
 CCGAGCCGGTGTCCCGGCGCACTGAGCTGTCCATTGACATCTCGTCCAAGCAGGTGGAGAACCGGGGGC
 CATCGGCCGTCCCGTTCCGGCTCAAGAGGGCCGAGGTGTTGGGCCACAAGACGCCAGAACCAGGCCCT
 CGGAGGACGGAGATCACCATCGTCAAACCCAGGAGTCAGCCACCGGAGGATGGAGCCCCTGCCTCCA
 AGGTCCCCGAGGTGCCACTGCCCTGCCACCGACGCAGCCCCAAGAGGGTGGAGATCCAGATGCCCAA
 GCCTGCTGAGGCGCCACCGCCCCAGCCAGCCAGACCTTGGAGAATTCAGAGCTGCCCTGTGTCT
 CAGCTGCAGAGCAGGCTGGAGCCCAAGCCCAGCCCCCTGTGGCTGAGGCTACACCCCGGAGCCAGGAGG
 CCACTGAGGCGGCTCCCAGCTGCGTTGGCGACATGGCCGACACCCCCAGAGATGCCGGGCTCAAGCAGGC
 GCCTGCATCACGGAACGAGAAGGCCCGGTGGACTTCGGCTACGTGGGATTGACTCCATCCTGGAGCAG
 ATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTTC AACATCATGGTGGTTCGGGCAGAGCGGCTTGGGTA
 AATCCACCTTAATCAACACCCCTTTCAAATCCAAAATCAGCCGGAAGTCCGTGCAGCCCACCTCAGAGGA
 GCGCATCCCCAAGACCATCGAGATCAAGTCCATCAGCACGATATTGAGGAGAAAGGCGTCCGGATGAAG
 CTGACAGTGATTGACACACCAGGGTTCGGGGACCACATCAACAACGAGAAGTCTGGCAGCCCATCATGA
 AGTTCATCAATGACCAGTACGAGAAATACCTGCAGGAGGAGTCAACATCAACCGCAAGAAGCGCATCCC
 GGACACCCGCGTCCACTGCTGCCTCTACTTCATCCCCGCCACCGGCCACTCCCTCAGGCCCTGGACATC
 GAGTTTATGAAACGCTGAGCAAGGTGGTCAACATCGTCCCTGTATCGCCAAGGCGGACACTCACCC
 TGGAGGAGAGGGTCCACTTCAAACAGCGGATCACCGCAGACCTGTGTCCAACGGCATCGACGTGTACCC
 CCAGAAGGAATTTGATGAGGACTCGGAGGACCGGCTGGTGAACGAGAAGTCCGGGAGATGATCCCATT
 GCTGTGGTGGCAGTGACCACGAGTACCAGGTCAACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGG
 GTACCATCGAAGTTGAAAACACCACACTGTGAGTTGCCTACCTGCGGGACCTTCTCATCAGGACGCA
 CATGCAGAACATCAAGGACATCACCAGCAGCATCACTTCGAGGCGTACCGTGTGAAGCGCCTCAACGAG
 GGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCGGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225979 representing NM_001113493
 Red=Cloning site Green=Tags(s)

MSDPAVNAQLDGIISDFEALKRSFEVEEETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARH
 VDSLQRSPKASLRRELSPGKAAEPVSRRELSIDISSKQVENAGAIGPSRFLKRAEVLGHKTPPEPAP
 RRTEITIVKPKQESAHRRMEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLNENEPAPVS
 QLQSRLEPKPQPPVAEATPRSQEATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQ
 MRRKAMKQGFENIMVVGQSLGKSTLINTLFSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMK
 LTVIDTPGFDHINNENCWQPIMKFINDQYEKYLQEEVNIINRKRIPDTRVHCLLYFIPATGHSLRPLDI
 EFMKRLSKVVNIVPVIAKADTLLEERVHFKQRITADLLSNGIDVYPQKFEDESEDRLVNEKFREMIPF
 AVVGSDEHYQVNGKRIILGRKTKWGTIEVENTHCEFAYLRDLLIRTHMQNIKDITSSIHFEAYRVKRLNE
 GSSAMANGMEEKEPEPEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_b09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001113493

ORF Size: 1737 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001113493.2](#)

RefSeq ORF: 1740 bp

Locus ID: 10801

UniProt ID: [Q9UHD8](#)

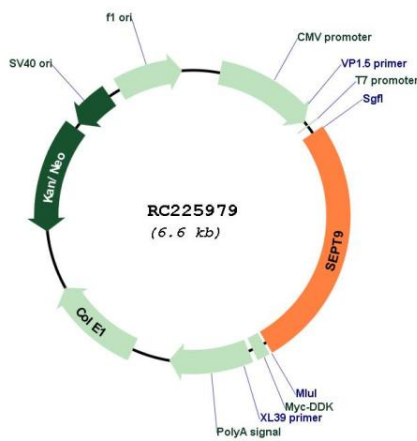
Cytogenetics: 17q25.3

Protein Families: Druggable Genome

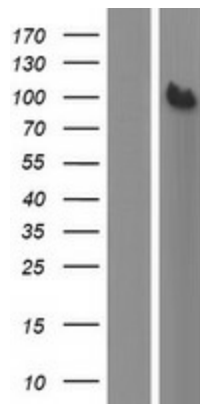
MW: 64.5 kDa

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 RC225979



Western blot validation of overexpression lysate (Cat# [LY426419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225979 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).