

Product datasheet for **RC225675**

MSF (SEPT9) (NM_001113494) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001113494) 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:

>RC225675 representing NM_001113494
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCCCTGCCTCCAAGGTCCTCCAGGTCCCCGAGGTGCCCACTGCCCTGCCACCGACGACGCCCCCAAGAGGG
 TGGAGATCCAGATGCCCAAGCCTGCTGAGGCGCCACCGCCCCAGCCCAGCCCAGACCTTGGAGAATTC
 AGAGCCTGCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGCCCCAGCCCCCTGTGGCTGAGGCT
 ACACCCCGGAGCCAGGAGGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATGGCCGACACCCCCAGAG
 ATGCCGGGCTCAAGCAGGCGCCTGCATCACGGAACGAGAAGGCCCGGTGGACTTCGGCTACGTGGGGAT
 TGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTTCAACATCATGGTGGTC
 GGGCAGAGCGGCTTGGGTAATCCACCTTAATCAACACCTCTTCAAATCCAAAATCAGCCGGAAGTCGG
 TGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCACGCACGATATTGAGGA
 GAAAGCGTCCGGATGAAGCTGACAGTGATTGACACACAGGGTTCGGGGACCACATCAACAACGAGAAC
 TGCTGGCAGCCATCATGAAGTTCATCAATGACCAGTACGAGAAAATACCTGCAGGAGGAGGTCAACATCA
 ACCGCAAGAAGCGCATCCCGGACACCCGCTCCACTGCTGCCTCTACTTCATCCCCGCCACCGGCCACTC
 CCTCAGGCCCTGGACATCGAGTTTATGAAACGCCTGAGCAAGGTGGTCAACATCGTCCCTGTATCGCC
 AAGCGGACACACTCACCTGGAGGAGAGGGTCCACTTCAAACAGCGGATCACCGCAGACCTGCTGTCCA
 ACGGCATCGACGTGTACCCCAAGGAATTTGATGAGGACTCGGAGGACCGGCTGGTGAACGAGAAGTT
 CCGGGAGATGATCCATTTGCTGTGGTGGGAGTACCACGAGTACCAGGTCAACGGCAAGAGGATCCTT
 GGGAGGAAGACCAAGTGGGTACCATCGAAGTTGAAAACACCACACTGTGAGTTTGCCTACCTGCGGG
 ACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCGCAGCATCCACTTCGAGGCGTACCG
 TGTGAAGCGCCTCAACGAGGGCAGCAGCCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCG
 GAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225675 representing NM_001113494
 Red=Cloning site Green=Tags(s)

MEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLNENPAPVSQLQSRLEPKPQPPVAEA
 TPRSQEATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFENIMVV
 GQSGLGKSTLINTLFKSKISRKSVQPTSEERIPKTIIEIKSITHDIEEKGVRMKTVIDTPGFGDHINNEN
 CWQPIMKFINDQYEKYLQEEVNIINRKRIPDTRVHCLYFIPATGHSLRPLDIEFMKRLSKVVNIIVPIA
 KADTLTLEERVHFKQRITADLLSNGIDVYPQKEFDEDESDRLVNEKRFEMIPFAVVGSDHEYQVNGKRIL
 GRKTKWGTIEVENTHCEFAYLRDLLIRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGMEEKEPEAP
 EM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001113494

ORF Size: 1266 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_001113494.1](#), [NP_001106966.1](#)
RefSeq Size: 3951 bp

RefSeq ORF: 1269 bp

Locus ID: 10801

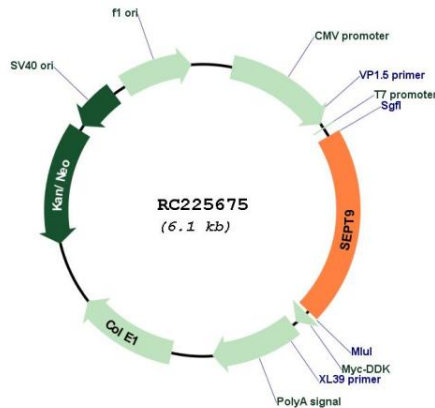
UniProt ID: [Q9UHD8](#)
Cytogenetics: 17q25.3

Protein Families: Druggable Genome

MW: 47.5 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 RC225675