

## Product datasheet for **RC238922**

### **MSF (SEPT9) (NM\_001293695) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001293695) 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:**

>RC238922 representing NM\_001293695  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAAGTCTTACTCAGCCTTAAAAAGATCTTTTGGAGTCGAGGAGGTCGAGACACCAACTCCACCC  
 CACCCCGAGGGTCCAGACTCCCTACTCCGAGCCACTGTGGCCAGCTCCACCCAGAAATCCAGGACCT  
 GGGCGTGAAGAACTCAGAACCCTCGGCCCGCCATGTGGACTCCCTAAGCCAACGCTCCCCAAGGCGTCC  
 CTGCGGAGGGTGGAGCTCTCGGGCCCAAGGCGGCCGAGCCGGTGTCCCGGCGCACTGAGCTGTCCATTG  
 ACATCTCGTCCAAGCAGGTGGAGAACGCCGGGGCCATCGGCCCGTCCCGTTCCGGCTCAAGAGGGCCGA  
 GGTGTTGGGCCACAAGACGCCAGAACCAGCCCTCGGAGGACGGAGATCACCATCGTCAAACCCAGGAG  
 TCAGCCCACCGGAGGATGGAGCCCCCTGCCTCAAAGTCCCGAGGTGCCACTGCCCTGCCACCGACG  
 CAGCCCCAAGAGGGTGGAGATCCAGATGCCAAGCCTGTGAGGCGCCACCGCCCCAGCCAGCCCA  
 GACCTTGGAGAATTCAGAGCCTGCCCTGTGTCTCAGTGCAGAGCAGGCTGGAGCCCAAGCCCCAGCCC  
 CCTGTGGCTGAGGCTACACCCCGAGCCAGGAGGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATGG  
 CCGACACCCCAAGAGATGCCGGGCTCAAGCAGGCGCTGCATCACGGAACGAGAAGGCCCCCGGTGGACTT  
 CGGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTTC  
 AACATCATGGTGGTCCGGCAGAGCGGCTTGGGTAATCCACCTTAATCAACACCCCTTCAAATCCAAAA  
 TCAGCCGGAAGTCGGTGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCAC  
 GCACGATATTGAGGAGAAAGGCGTCCGGATGAAGTGCAGTATTGACACACAGGGTTCGGGGACCAC  
 ATCAACAACGAGAAGTCTGTCAGCCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTGCAGG  
 AGGAGGTCAACATCAACCAGCAAGAGCGCATCCCGGACACCCGCTCCACTGCTGCTACTTTCATCCC  
 CGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAACCGCTGAGCAAGGTGGTCAACATC  
 GTCCTGTGCATCGCCAAGGCGGACACACTACCCTGGAGGAGAGGGTCCACTTCAAAACAGCGGATACCG  
 CAGACCTGCTGTCCAACGGCATCGAGTGTACCCCCAGAAGGAATTTGATGAGGACTCGGAGGACCGGCT  
 GGTGAACGAGAAGTTCGGGAGATGATCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGGTCAAC  
 GGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACTGTGAGT  
 TTGCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGCATCCA  
 CTTGAGGCGTACCGTGTGAAGCGCTCAACGAGGCGAGCAGCGCATGGCCAACGGCATGGAGGAGAAG  
 GAGCCAGAAGCCCGGAGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238922 representing NM\_001293695  
 Red=Cloning site Green=Tags(s)

MKKSYSALKRSFEVEEETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDLSQRSFKAS  
 LRRVELSGPKAAEPVSRRELSIDISSKQVENAGAIGPSRFGLKRAEVLGHKTPEPAPRREITIVKQE  
 SAHRRMEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLNENEPAPVSQLQSRLEPKPQP  
 PVAEATPRSQEATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRKAMKQGFEE  
 NIMVVGQSGLGKSTLINTLFKSKISRKSVQPTSEERIPKTIIEIKSITHDIEEKGVKMLTVIDTPGFGDH  
 INNENCWQPIMKFINDQYEKYLQEEVNIINRKRIPDTRVHCLYFIPATGHSRPLDIEFMKRLSKVVNI  
 VPVIAKADTLTLEERVHFKQRITADLLSNGIDVYPQKEFDESEDRLVNEKFREMIPFAVVGSDHEYQVN  
 GKIRILGRKTKWGTIEVENTHCEFAYLRDLLIRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGMEEK  
 EPEAPEM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001293695

**ORF Size:** 1701 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\\_001293695.2](#)

**RefSeq Size:** 3780 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 10801

**UniProt ID:** [Q9UHD8](#)

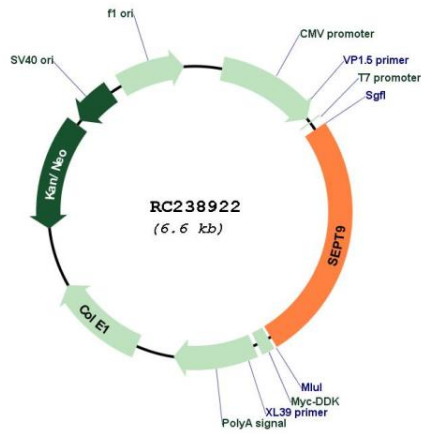
**Cytogenetics:** 17q25.3

**Protein Families:** Druggable Genome

**MW:** 64 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 RC238922