

## Product datasheet for RC237525

### MSF (SEPT9) (NM\_001293698) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MSF (SEPT9) (NM\_001293698) 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)  
**ORF Nucleotide Sequence:** >RC237525 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGACACCCAGAGATGCCGGGCTCAAGCAGGCGCTGCATCACGGAACGAGAAGGCCCGGTGG  
 ACTTCGGCTACGTGGGATTGACTCCATCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTCGA  
 GTTCAACATCATGGTGGTCGGGCAGAGCGGCTTGGGTAATCCACCTTAATCAACACCTCTTCAAATCC  
 AAAATCAGCCGGAAGTCGGTGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCA  
 TCACGCACGATATTGAGGAGAAAGCGTCCGGATGAAGCTGACAGTGATTGACACACCAGGGTTCGGGGA  
 CCACATCAACAACGAGAAGTCTGGCAGCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTG  
 CAGGAGGAGGTCAACATCAACCGCAAGAAGCGCATCCCGACACCCGCTCCACTGCTGCCTCTACTTCA  
 TCCCCGCCACCGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCCTGAGCAAGGTGGTCAA  
 CATCGTCCCTGTTCATCGCCAAGGCGGACACACTCACCTGGAGGAGAGGGTCCACTTCAAACAGCGGATC  
 ACCGCAGACCTGCTGTCCAACGGCATCGACGTGTACCCCAAGGAATTTGATGAGGACTCGGAGGACC  
 GGCTGGTGAACGAGAAGTCCGGGAGATGATCCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGGT  
 CAACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGTACCATCGAAGTTGAAAACACCACACTGT  
 GAGTTTGCCTACCTGCGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGCA  
 TCCACTTCGAGGCGTACCGTGTGAAGCGCTCAACGAGGCGAGCAGCGCCATGGCCAACGGCATGGAGGA  
 GAAGGAGCCAGAAGCCCCGGAGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237525 protein sequence  
Red=Cloning site Green=Tags(s)

MADTPRDAGLKQAPASRNEKAPVDFGYVIGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINTLFKS  
 KISRKSVQPTSEERIPKTIIEIKSIHDIIEEKGVRMKLTVIDTPGFDHINNENCWQPIMKFINDQYEKYL  
 QEEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVIADTLTLEERVHFKQRI  
 TADLLSNGIDVYPQKEFDEDESDRLVNEKFRMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTHC  
 EFAYLRDLLIRTHMQNIKIDITSSIHFEAYRVKRLNEGSSAMANGMEEKEPEAPEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1502\\_c08.zip](https://cdn.origene.com/chromatograms/ja1502_c08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001293698

**ORF Size:** 1005 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\\_001293698.2](#)

**RefSeq Size:** 3361 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 10801

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

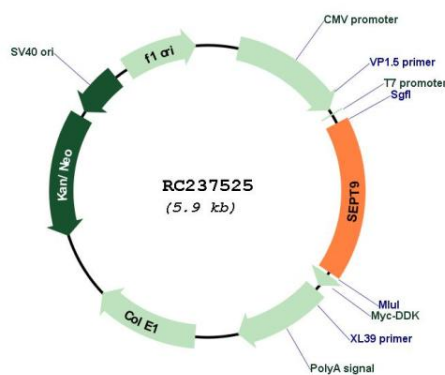
**Cytogenetics:** 17q25.3

**Protein Families:** Druggable Genome

**MW:** 38.5 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 RC237525