

## Product datasheet for **SC318937**

### MSF (SEPT9) (NM\_001113493) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001113493) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN9
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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**Fully Sequenced ORF:** >SC318937 representing NM\_001113493.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCGGACCCCGCGGTCAACCGCAGCTGGATGGGATCATTTCGGACTTCGAAGCCTTAAAAAGATCT
TTTGAGGTCGAGGAGTCGAGACACCAACTCCACCCACCCCGAGGGTCCAGACTCCCCTACTCCGA
GCCACTGTGGCCAGCTCCACCCAGAAATTCAGGACCTGGGCGTGAAGAACTCAGAACCCCTCGGCCGC
CATGTGGACTCCCTAAGCCAACGCTCCCCCAAGGCGTCCCTGCGGAGGGTGGAGCTCTCGGGCCCAAG
GCGGCCGAGCCGGTGTCCCGGCGCACTGAGCTGTCCATTGACATCTCGTCCAAGCAGGTGGAGAAGCC
GGGGCCATCGGCCCGTCCCGGTTTCGGGCTCAAGAGGGCCGAGGTGTTGGGCCACAAGACGCCAGAACC
GCCCTCGGAGGACGGAGATCACCATCGTCAAACCCAGGAGTCAGCCACCCGAGGATGGAGCCCCCT
GCCTCAAAGTCCCGAGGTGCCACTGCCCTGCCACCGACGCAGCCCAAGAGGGTGGAGATCCAG
ATGCCAAAGCCTGCTGAGGCGCCACCGCCCCAGCCAGCCAGACCTTGGAGAATTAGAGCCTGCC
CCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGCCAGCCCTGTGGCTGAGGCTACACCCGG
AGCCAGGAGGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATGGCCGACACCCCAAGAGATGCCGGG
CTCAAGCAGGCGCCTGCATCACGAACGAGAAGGCCCGGTGGACTTCGGCTACGTGGGGATTGACTCC
ATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCAGTTCACATCATGGTGGTTCGGGCG
AGCGGCTTGGGTAATCCACCTTAATCAACACCCTCTTCAAATCCAAAATCAGCCGGAAGTCGGTGCAG
CCCACCTCAGAGGAGCGCATCCCAAGACCATCGAGATCAAGTCCATCACGCACGATATTGAGGAGAAA
GGCGTCCGGATGAAGTGCAGTATTGACACACCAGGGTTCGGGACCACATCAACAACGAGAAGTGC
TGGCAGCCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTGCAGGAGGAGTCAACATCAAC
CGCAAGAAAGCGCATCCCGGACACCCGCTCCACTGCTGCCTCTACTTCATCCCGCCACCGGCCACTCC
CTCAGGCCCTTGACATCGAGTTTATGAAACGCCCTGAGCAAGGTGGTCAACATCGTCCCTGTCATCGCC
AAGGCGGACACACTCACCTGGAGGAGAGGGTCCACTTCAAACAGCGGATCACCGCAGACCTGCTGTCC
AACGGCATCGACGTGTACCCCAAGAAATTTGATGAGGACTCGGAGGACCGGCTGGTGAACGAGAAG
TTCCGGGAGATGATCCCATTTGTGTGGTGGCAGTGACCACGAGTACCAGGTCAACGGCAAGAGGATC
CTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACACTGTGAGTTTGCCTACCTG
CGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATACCAGCAGCATCCACTTCGAGGCG
TACCGTGTGAAGCGCCTCAACGAGGGCAGCAGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAA
GCCCGGAGATGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM\_001113493
- Insert Size:** 1740 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001113493.1](#)

**RefSeq Size:** 3998 bp

**RefSeq ORF:** 1740 bp

**Locus ID:** 10801

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

**Cytogenetics:** 17q25.3

**Protein Families:** Druggable Genome

**MW:** 64.7 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]

Transcript Variant: This variant (2, also known as gamma) lacks two 5' exons but has an alternate 5' exon, as compared to variant 1. The resulting isoform (b) has a shorter and different N-terminus, as compared to isoform a.