

Product datasheet for **SC335418**

MSF (SEPT9) (NM_001293697) Human Untagged Clone

Product data:

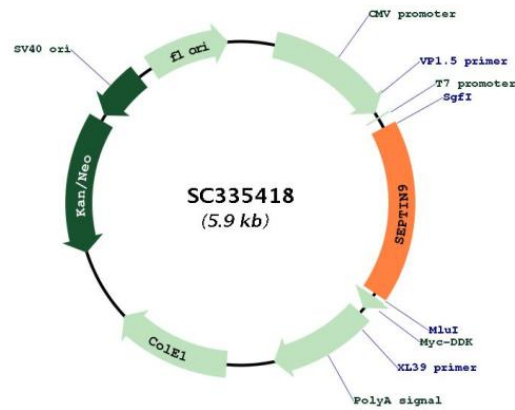
Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001293697) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN9
Synonyms:	AF17q25; MSF; MSF1; NAPB; PNUTL4; SEPT9; SeptD1; SINT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335418 representing NM_001293697. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGACACCCAGAGATGCCGGGCTCAAGCAGGCGCTGCATCACGGAACGAGAAGGCCCGGTG
GACTTCGGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTC
GAGTTCAACATCATGGTGGTCGGGCAGAGCGGCTTGGTAAATCCACCTAATCAACACCCTCTTCAA
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TCCATCACGCACGATATTGAGGAGAAAGCGTCCGGATGAAGCTGACAGTGATTGACACACCAGGGTTC
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TACCTGCAGGAGGAGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCCGCTCCACTGCTGCCTC
TACTTCATCCCCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCCTGAGCAAG
GTGGTCAACATCGTCCCTGTCAATCGCAAGGCGGACACTCACCTGGAGGAGAGGGTCCACTTCAA
CAGCGGATCACCGCAGACCTGCTGTCAACGGCATCGACGTGTACCCCAAGGAATTTGATGAGGAC
TCGGAGGACCGGCTGGTGAACGAGAAGTCCGGGAGATGATCCCATTTGCTGTGGTGGCAGTGACCAC
GAGTACCAGGTCAACGGCAAGAGGATCCTTGGGAGGAAGCAAGTGGGTACCATCGAAGTTGAAAAC
ACCACACTGTGAGTTGCCTACCTGCGGGACCTTCTCATCAGGACGCATGCAGAACATCAAGGAC
ATCACCAGCAGATCCACTTCGAGGCGTACCGTGTGAAGCGCTCAACGAGGGCAGCAGCCATGGCC
AACGGCATGGAGGAGAAGGAGCCAGAAGCCCGGAGATGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001293697

Insert Size: 1008 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).

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_001293697.1](#)

RefSeq Size: 3275 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]

Transcript Variant: This variant (10) lacks three 5' exons, but has an alternate 5' exon, which results in a downstream AUG start codon, as compared to variant 1. The resulting isoform (f) has a much shorter N-terminus, as compared to isoform a. Variants 7, 10 and 11 encode the same isoform f.