**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SC320272

## MSF (SEPT9) (NM_006640) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | MSF (SEPT9) (NM_006640) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | MSF |
| **Synonyms:** | AF17q25; MSF; MSF1; NAPB; PNUTL4; SEPT9; SeptD1; SINT1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC (PS100020) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene sequence for NM_006640.3
CGGGACTCCCGCCGCTGCTAAATATATCCGTAGGAATGGAGAGGGACCGGATCTCAGCCT
TGAAAAGATCTTTTGAGGTCGAGGAGGTCGAGACACCCAACTCCACCCCACCCCGGAGGG
TCCAGACTCCCCTACTCCGAGCCACTGTGGCCAGCTCCACCCAGAAATTCCAGGACCTGG
GCGTGAAGAACTCAGAACCCTCGGCCCGCCATGTGGACTCCCTAAGCCAACGCTCCCCCA
AGGCGTCCCTGCGGAGGGTGGAGCTCTCGGGCCCCAAGGCGGCCGAGCCGGTGTCCCGGC
GCACTGAGCTGTCCATTGACATCTCGTCCAAGCAGGTGGAGAACGCCGGGGCCATCGGCC
CGTCCCGGTTCGGGCTCAAGAGGGCCGAGGTGTTGGGCCACAAGACGCCAGAACCGGCCC
CTCGGAGGACGGAGATCACCATCGTCAAACCCCAGGAGTCAGCCCACCGGAGGATGGAGC
CCCCTGCCTCCAAGGTCCCCGAGGTGCCCACTGCCCCTGCCACCGACGCAGCCCCCAAGA
GGGTGGAGATCCAGATGCCCAAGCCTGCTGAGGCGCCCACCGCCCCCAGCCCAGCCCAGA
CCTTGGAGAATTCAGAGCCTGCCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGC
CCCAGCCCCCTGTGGCTGAGGCTACACCCCGGAGCCAGGAGGCCACTGAGGCGGCTCCCA
GCTGCGTTGGCGACATGGCCGACACCCCCAGAGATGCCGGGCTCAAGCAGGCGCCTGCAT
CACGGAACGAGAAGGCCCCGGTGGACTTCGGCTACGTGGGGATTGACTCCATCCTGGAGC
AGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTTCAACATCATGGTGGTCGGGCAGA
GCGGCTTGGGTAAATCCACCTTAATCAACACCCTCTTCAAATCCAAAATCAGCCGGAAGT
CGGTGCAGCCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCACGC
ACGATATTGAGGAGAAAGGCGTCCGGATGAAGCTGACAGTGATTGACACACCAGGGTTCG
GGGACCACATCAACAACGAGAACTGCTGGCAGCCCATCATGAAGTTCATCAATGACCAGT
ACGAGAAATACCTGCAGGAGGAGGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCC
GCGTCCACTGCTGCCTCTACTTCATCCCCGCCACCGGCCACTCCCTCAGGCCCCTGGACA
TCGAGTTTATGAAACGCCTGAGCAAGGTGGTCAACATCGTCCCTGTCATCGCCAAGGCGG
ACACACTCACCCTGGAGGAGAGGGTCCACTTCAAACAGCGGATCACCGCAGACCTGCTGT
CCAACGGCATCGACGTGTACCCCCAGAAGGAATTTGATGAGGACTCGGAGGACCGGCTGG
TGAACGAGAAGTTCCGGGAGATGATCCCATTTGCTGTGGTGGGCAGTGACCACGAGTACC
AGGTCAACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAA



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ACACCACACACTGTGAGTTTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGA
ACATCAAGGACATCACCAGCAGCATCCACTTCGAGGCGTACCGTGTGAAGCGCCTCAACG
AGGGCAGCAGCGCCATGGCCAACGGCGTGGAGGAGAAGGAGCCAGAAGCCCCGGAGATGT
AGACGCCACCCTGCCCACCCCCGGGATCCTGCCCCCAAGTCATTTCCGTCCCCCCCCCAG
GCCCTCCCACCACCCCATTTTATTTTATATGATTTTCTCCATTTGTCATCGTTCCCCACC
CCTTCGACATGCTGCCAGGAAACAAGGGAAGGGGCCTCCCTCCGAGTGAGTCAGTGATGA
GGCCGCGGCCTCCCCGAGGTTGTGGGGAGGCTGCACTGGAGCCACAGGCAGGGGTGAGAG
CACCCACTGAATTGACATGACCCTCTGTCCCCAGGCCTGGCTCCCCGAGGGCTCAGAAGA
GCAGCTTCGGTGTGCAGATCATCCGTCTGTGTGGGGTTCTCAGTGCCGGAGGCCTTGGGG
TGGGGGCCAGGCCTCGCACTTGCAGAGGAGCCCAGTGGGCTGCACGCTCCCCTCCATCCC
CATCGGCCCTGTCCCCTGGAGTGTGTCAGAGCCCAGGGGAGAATGCAGCCCACCAGGAGC
ACCTGGACCCCCTGCCCGCCACATGGTGTGGCCATCACTCAGCCCCTACCCCTGCCCTGC
TCCTAAGGGTAGAAAACTCCAGGGTCCCCTGCCACCGACTGCCCAGCCACTCCAAGCCCC
CTGGCAGCTGCCCCTCCTGGAGCAGAAAGTGCCTTTATCTCAGCCATCCGCAGACTGCTT
GGCCAGATGCGGGGACAGGCTGGAATGAGGGAGGCGTCTTCATCTCCCTGCCATCCCCCT
CTCACGCCACCCCCGCCCCCACCGGGCTGCAGGTGCTGCTGATGCGCTGGGATCTGATTG
AGGATAAAAAGGAAGGAGAGATGACCCCTACCCCCTCATCCCCCAGTTTTGAAAAGGTCT
AAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGAGCCATGGAAGGTGCCAGAAGGAAG
GTTGGCGGGGGCACGTGTGGGCCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGG
CGCCTGCCCTGCCCAAGTGACCAGGGAAGTGTGTGTGTGTCCATGTGTATGCGTGTCCGT
CTGTCTGTCTAGTGTCTGGGTTTGGCCCAAGACTGGGCTGTAGTTACATTAATGCCCAGC
CAGCCACCCCTGCCACTCACCCCTCCTGGCCCAGGCCTTGCTGACTCTCTGAGCTGGGGA
GGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCCGTGCCTGGGCCCCTCCCCTCA
GAGCCCATGGTAACGAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCAC
AGCTGAAGAGCAAGGTTTCGTGGCAGCACGGCCCGGCCCCTCACCCTCTGTCCCCACGAG
GGGACCCATGGGGGCTGTCTTTGCAGGGCACAGATGACCAAAGTCCCTTCCTGCTTCCTG
TTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCCTGATGAGACTCCACTCAGGTGCACAC
ATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTTGCAGCCAGGAGAAGGTCAGCGA
GAAGGAGTGTATGAGTGTGAGTGTGTGTGCATGGAAGTTGGGGCACTGGGCGTCTGACTC
CCTCCCCACCCAAGAGAGGAAGGACCCCTCACCACCCCCACTGGCGAGACAGTTTACTTT
GCCGACTTGCCATGTTTTTGCCAAAACCAAGATTTTGAAGGAAATGAGTGGCCAGCGCCA
GGGCCCAGGCCATGTGGCCTGCCCAGCCTCAATGTCACTTGGCGGCGGGGTGGGGTGGGG
GTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCCTTCTCTGTAACCAGACTTTG
AAAAATTGTTCGTTTCATCAGGCTCTGTTCCTCAATGGCCTTTTGCTACGTGCCTCCCGA
GAAATTTGTCTTTTTGTATAAATGACAAAGTGTTGAAAATGTATTTCCTGAAATAAATGT
TTCAAATGCAGAATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM_006640

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_006640.3, NP_006631.2 |
| **RefSeq Size:** | 4452 bp |
| **RefSeq ORF:** | 1707 bp |
| **Locus ID:** | 10801 |
| **UniProt ID:** | Q9UHD8 |
| **Cytogenetics:** | 17q25.3 |
| **Domains:** | GTP_CDC |
| **Protein Families:** | Druggable Genome |
| **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]<br>Transcript Variant: This variant (3, also known as alpha) lacks two 5' exons but has an alternate 5' exon, as compared to variant 1. The resulting isoform (c) has a shorter and different N-terminus, as compared to isoform a. |