

## Product datasheet for **RG200264**

### **MSF (SEPT9) (NM\_006640) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_006640) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MSF
Synonyms:	AF17q25; MSF; MSF1; NAPB; PNUTL4; SEPT9; SeptD1; SINT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200264 representing NM\_006640  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAGGGACCGGATCTCAGCCTTGAAGATCTTTGAGGTCGAGGAGGTCGAGACACCCAACCTCCA  
 CCCACCCCGGAGGGTCCAGACTCCCCTACTCCGAGCCACTGTGGCCAGCTCCACCCAGAAATCCAGGA  
 CCTGGGCGTGAAGAACTCAGAACCCTCGGCCCGCCATGTGGACTCCCTAAGCCAACGCTCCCCAAGGCG  
 TCCTGCGGAGGGTGGAGCTCTCGGGCCCAAGGCGGCCGAGCCGGTGTCCCGGCGCACTGAGCTGTCCA  
 TTGACATCTCGTCCAAGCAGGTGGAGAACGCCGGGCCATCGGCCCGTCCCGTTCCGGGCTCAAGAGGGC  
 CGAGGTGTTGGGCCACAAGACGCCAGAACCAGCCCTCGGAGGACGGAGATCACCATCGTCAAACCCAG  
 GAGTCAGCCACCGGAGGATGGAGCCCTGCCTCAAGGTCCCCGAGGTGCCACTGCCCTGCCACCG  
 ACGCAGCCCCAAGAGGGTGGAGATCCAGATGCCCAAGCTGCTGAGGCGCCACCGCCCCAGCCACG  
 CCAGACCTTGAGAATTCAGAGCCTGCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGCCCGAG  
 CCCCTGTGGCTGAGGCTACACCCCGGAGCCAGGAGGCCACTGAGGCGGCTCCCAGCTGCGTTGGCGACA  
 TGGCCGACACCCCAAGAGATGCCGGGCTCAAGCAGGCGCCTGCATCACGGAACGAGAAGGCCCGGTGGA  
 CTTGCGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAG  
 TTCAACATCATGGTGGTCCGGCAGAGCGGCTTGGGTAATCCACCTTAATCAACACCCCTCTTCAAATCCA  
 AAATCAGCCGGAAGTCCGTGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCAT  
 CACGCACGATATTGAGGAGAAAGCGTCCGGATGAAGCTGACAGTGATTGACACACAGGGTTCCGGGAC  
 CACATCAACAACGAGAATGCTGGCAGCCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTGC  
 AGGAGGAGGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCCGCTCACTGCTACTTCTACTTCAT  
 CCCCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCCTGAGCAAGTGGTCAAC  
 ATCGTCCCTGTCTCGCAAGGCGGACACTCACCCCTGGAGGAGGGTCCACTTCAAACAGCGGATCA  
 CCGCAGACCTGTGTCCAACGGCATCGAGTGTACCCCAAGGAATTTGATGAGGACTCGGAGGACCG  
 GCTGGTGAACGAGAAGTCCGGGAGATGATCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGGTC  
 AACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGTTACCATCGAAGTTGAAAACACCACACTGTG  
 AGTTTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGCAT  
 CCATCTCGAGGCGTACCGTGTGAAGCGCCTCAACGAGGGCAGCAGCGCCATGGCCAACGGCGTGGAGGAG  
 AAGGAGCCAGAAGCCCCGAGATG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200264 representing NM\_006640  
 Red=Cloning site Green=Tags(s)

MERDRISALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLQSRSPKA  
 SLRRVELSGPKAAEPVSRRELSIDISSKQVENAGAIGPSRFLKRAEVLGHKTPPEPAPRREITIVKPKQ  
 ESAHRRMEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLNENPAPVSQLQRLEPKPKQ  
 PPVAEATPRSQEATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVVIDSILEQMRRKAMKQGF  
 FNIMVVGQSLGKSTLINTLFKSKISRKSVQPTSEERIPKTIIEIKSITHDIEEKGVMMKLTVIDTPGFGD  
 HINNENCWQPIMKFINDQYKYLQEEVNIKRKRIPDTRVHCLYFIPATGHSRPLDIEFMKRLSKVVN  
 IVPVIAKADTLLEERVHFKQRITADLLSNGIDVYPQKEFDESEDRLVNEKFREMIPFAVVGSDHEYQV  
 NGKRILGRKTKWGTIEVENTHCEFAYLRDLLIRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEE  
 KEPEAPEM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006640

**ORF Size:** 1704 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\\_006640.2](#), [NP\\_006631.1](#)

**RefSeq Size:** 4452 bp

**RefSeq ORF:** 1707 bp

**Locus ID:** 10801

UniProt ID: [Q9UHD8](#)

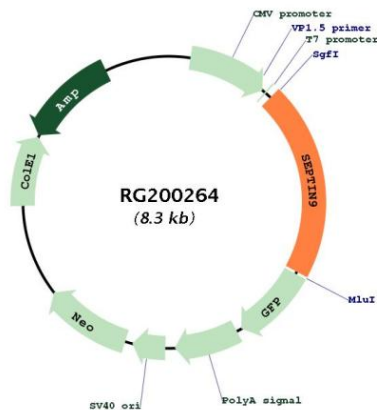
Cytogenetics: 17q25.3

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]

**Product images:**



Circular map for RG200264