

Product datasheet for **RG225802**

MSF (SEPT9) (NM_001113495) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSF (SEPT9) (NM_001113495) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN9
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)



[View online »](#)

ORF Nucleotide Sequence:

>RG225802 representing NM_001113495
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCAAGTTTCTGGGAAGGCCTGCAGGTGGCCGTAGGGCTGCCCGAGGGTCTGGCCCCAGGGTCT
 TGGATTCAGGGGAGCCTGCAGAGGGAGGGCAGCTGGAGGCTGCTCCAGTGTGCATTGTTACGAGGCAAAG
 TAAGGAGACTGCTGGGCCACGCTGGGCCGGGGTGGATGGAGGCAAGGAAGTCTTCGCCGGGCAAGGGC
 ACCAGCTGTAGATGCCGGCAGCTTTCTCCTGGACACGGGCCTGGAAGGCTGACAGGGTGTGGTGAAGTCC
 ACCGGCTCCCCTGCCGTGGCCTGGTCACTGGCTTACAGGCCTCCGTGGCAGGAGGAGGATGACCTTGC
 ATTCTGCTTGGCCACCATTGGCAGTGACAGACAAGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATG
 GCCGACACCCCCAGAGATGCCGGGCTCAAGCAGGCGCTGCATCACGGAACGAGAAGGCCCGGTGGACT
 TCGGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCCCGGAAGGCCATGAAGCAGGGCTTCGAGTT
 CAACATCATGGTGGTCCGGCAGAGCGGCTTGGGTAAATCCACCTTAATCAACACCCTCTTCAATCCAAA
 ATCAGCCGGAAGTCGGTGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCA
 CGCAGATATTGAGGAGAAAGGCGTCCGGATGAAGCTGACAGTGAATGACACACCAGGGTTCGGGGACCA
 CATCAACAACGAGAACTGCTGGCAGCCCATCATGAAGTTCATCAATGACCACTACGAGAAATACCTGCAG
 GAGGAGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCCCGTCCACTGCTGCCTCTACTTCATCC
 CCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCTGAGCAAGTGGTCAACAT
 CGTCCCTGTATCGCCAAGGCGGACACTCACCTGGAGGAGAGGGTCCACTTCAAACAGCGGATCACC
 GCAGACCTGCTGTCCAACGGCATCGACGTGTACCCCAAGAAGAAATTTGATGAGGACTCGGAGACCGGC
 TGGTGAACGAGAAGTCCGGGAGATGATCCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGTCAA
 CGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACTGTGAG
 TTTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGATCC
 ACTTCGAGGCGTACCGTGTGAAGCGCCTCAACGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAA
 GGAGCCAGAAGCCCCGGAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225802 representing NM_001113495
 Red=Cloning site Green=Tags(s)

MGSSFW EGLQVAVGLPQGCWPQGLDSGEP AEGGQLEAAPVCI VTRQSKETAGPTLGRGGWRQGS LRRGKG
 TSCR CRQLSPGHGPGRLTGC GECHRLPCRGLVSGFTGLRGQEEDLAFCLATIGSDRQATEAAPSCV GDM
 ADTPR DAGLKQAPASRNEKAPVDFGYV GIDSILEQMRRKAMKQGF EFNIMVVGQSLGKSTLINTLFKSK
 ISRKSVP TSEERIPKTI EIKSITHDIEEKGV RMKLTVIDTPGFDHINNENCWQPI MKFINDQYEKYLQ
 EEVNI NRKRIPDTRVHCLYFIPATGHSLRPLDIEFMKRLSKV VNIVPVIAKADTLTLEERVHFKQRIT
 ADLLSNGIDVYPQKFEDESDRLVNEKFREMIPFAV VGS DHEYQVNGKRILGRKTKWGTIEVENTHCE
 FAYLRDLLIRTHMQNIKIDITSSIHFEAYRVKRLNEGSSAMANGMEEKEPEAPEM

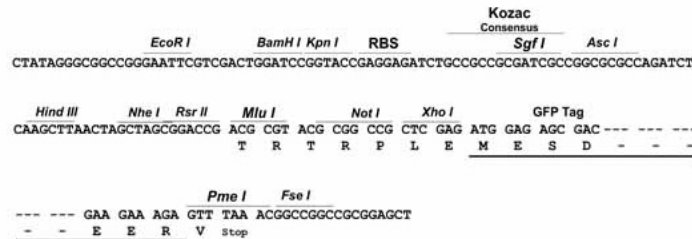
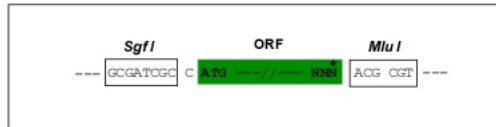
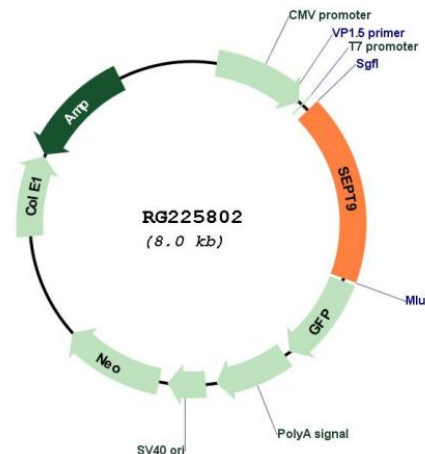
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_001113495

ORF Size: 1422 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.

RefSeq: [NM_001113495.1](#), [NP_001106967.1](#)

RefSeq Size: 3651 bp

RefSeq ORF: 1008 bp

Locus ID: 10801

UniProt ID: [Q9UHD8](#)

Cytogenetics: 17q25.3

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]