

Product datasheet for **RC200264**

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:	Myc-DDK
Symbol:	SEPTIN9
Synonyms:	AF17q25; MSF; MSF1; NAPB; PNUTL4; SEPT9; SeptD1; SINT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC200264 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGGGACCGGATCTCAGCCTTGAAGATCTTTGAGGTCGAGGAGGTCGAGACACCCAACCTCCA
 CCCACCCCGGAGGGTCCAGACTCCCCTACTCCGAGCCACTGTGGCCAGCTCCACCCAGAAATCCAGGA
 CCTGGGCGTGAAGAACTCAGAACCCTCGGCCCGCCATGTGGACTCCCTAAGCCAACGCTCCCCAAGGCG
 TCCTGCGGAGGGTGGAGCTCTCGGGCCCAAGGCGCCGAGCCGGTGTCCCGGCGCACTGAGCTGTCCA
 TTGACATCTCGTCCAAGCAGGTGGAGAACCGGGGCCATCGGCCCGTCCCGTTCCGGGCTCAAGAGGGC
 CGAGGTGTTGGGCCACAAGACGCCAGAACCAGCCCTCGGAGGACGGAGATCACCATCGTCAAACCCAG
 GAGTCAGCCACCGAGGATGGAGCCCTGCCTCAAGGTCCCCGAGGTGCCACTGCCCTGCCACCG
 ACGCAGCCCCAAGAGGGTGGAGATCCAGATGCCAAGCCTGCTGAGGCGCCACCGCCCCAGCCAGC
 CCAGACCTTGAGAATTCAGAGCCTGCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGCCCAAG
 CCCCTGTGGCTGAGGCTACACCCCGGAGCCAGGAGGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACA
 TGGCCGACACCCCAAGAGATGCCGGGCTCAAGCAGGCGCCTGCATCACGGAACGAGAAGGCCCGGTGGA
 CTTGCGCTACGTGGGATTGACTCCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAG
 TTCAACATCATGGTGGTGGGCAGAGCGGCTTGGGTAATCCACCTTAATCAACACCCCTCTTCAAATCCA
 AAATCAGCCGGAAGTCCGTGCAGCCACCTCAGAGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCAT
 CACGCAGGATATTGAGGAGAAAGCGTCCGGATGAAGTGAAGTACAGTATTGACACACAGGGTTCCGGGAC
 CACATCAACAACGAGAAGTCTGGCAGCCATCATGAAGTTCATCAATGACCAGTACGAGAAATACCTGC
 AGGAGGAGTCAACATCAACCGCAAGAAGCGCATCCCGACACCCGCTCCACTGCTGCCTACTTCTCAT
 CCCCGCCACCGGCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCTGAGCAAGGTGGTCAAC
 ATCGTCCCTGTCATCGCCAAGGCGGACACTCACCTGGAGGAGGGTCCACTTCAAACAGCGGATCA
 CCGCAGACCTGTGTCCAACGGCATCGAGTGTACCCCAAGGAATTTGATGAGGACTCGGAGGACCG
 GCTGGTGAACGAGAAGTCCGGGAGATGATCCATTTGCTGTGGTGGCAGTGACCACGAGTACCAGGTC
 AACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGTTACCATCGAAGTTGAAAACACCACACTGTG
 AGTTTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACAGCAGCAT
 CCACCTCGAGGCGTACCGTGTGAAGCGCCTCAACGAGGGCAGCAGCGCCATGGCCAACGGGTGGAGGAG
 AAGGAGCCAGAAGCCCCGAGATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200264 protein sequence
 Red=Cloning site Green=Tags(s)

MERDRISALKRSFEVEEETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLQRSPKA
 SLRRVELSGPKAAEPVSRRELSIDISSKQVENAGAIGPSRFLKRAEVLGHKTPEPAPRREITIVKPKQ
 ESAHRRMEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLNENEPAPVSQLQSRLEPKPQ
 PPVAEATPRSQEATEAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVIGDSILEQMRRKAMKQGF
 FNIMVVGQSLGKSTLINTLFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTVIDTPFGD
 HINNENCWQPIMKFINDQYKYLQEEVNIINRKRIPDTRVHCLYFIPATGHSLRPLDIEFMKRLSKVVN
 IVPVIAKADTLLEERVHFKQRITADLLSNGIDVYPQKEFDESEDRLVNEKFREMIPFAVVGSDHEYQV
 NGKRILGRKTKWGTEVENTHCEFAYLRLDLLIRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEE
 KEPEAPEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6051_b05.zip

Restriction Sites:

Sgfl-MluI

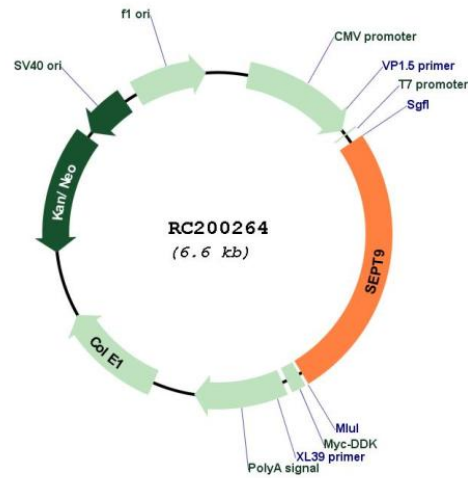
Cloning Scheme:

Cloning sites used for ORF Shutting:



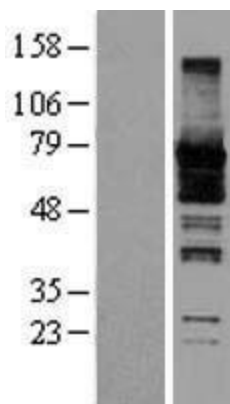
* The last codon before the Stop codon of the ORF

Plasmid Map:

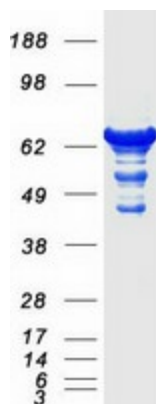


ACCN: NM_006640
 ORF Size: 1704 bp

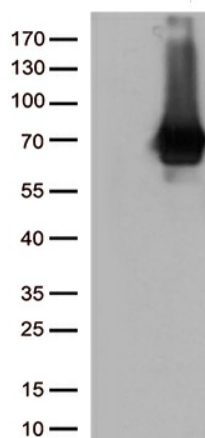
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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_006640.2 , NP_006631.1
RefSeq Size:	4469 bp
RefSeq ORF:	1707 bp
Locus ID:	10801
UniProt ID:	Q9UHD8
Cytogenetics:	17q25.3
Domains:	GTP_CDC
Protein Families:	Druggable Genome
MW:	63.6 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]

Product images:

Western blot validation of overexpression lysate (Cat# [LY401986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200264 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEPTIN9 protein (Cat# [TP300264]). The protein was produced from HEK293T cells transfected with SEPTIN9 cDNA clone (Cat# RC200264) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SEPT9 (Cat# RC200264, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SEPT9 (Cat# [TA812821])(1:2000).