

Product datasheet for RC204253

SEPTIN1 (NM_052838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN1 (NM_052838) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPTIN1
Synonyms:	DIFF6; LARP; PNUTL3; SEP1; SEPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204253 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACAAGGAGTACGTGGGTTTTGCTGCCCTCCCAACCAGCTGCACCGCAAGTCTGTCAAGAAGGGGT
 TTGACTTCACGCTAATGGTGGCAGGGGAGTCAGGCCTAGGGAAATCCACCCTCATCAACAGCCTCTTCT
 CACCAACCTCTATGAGGATCGCCAGGTGCCAGAGGCCAGTGCTCGCTTGACACAGACCCTGGCCATTGAG
 CGCCGGGCGTAGAGATTGAGGAAGGGGTGTGAAAGTGAAGCTGACCCTTGTTGACACACCTGGCTTTG
 GGGACTCAGTGGACTGCTGACTGCTGGCTTCCGGTGGTGAATTCATCGAGGAGCAATTTGAGCAGTA
 CCTTAGGGATGAGAGTGGCCTGAACCGGAAGAATCCAGGACTCCCGAGTCCACTGCTGCCTCTACTTC
 ATCTCACCTTCCGGCCGGGGCTCCGGCCCTAGATGTGGCTTCTCCGGGCAGTACACGAGAAAGTCA
 ACATCATCCCAGTCATTGGCAAAGCGGATGCTCTGATGCCCCAGGAAACCCAGGCCCTCAAGCAGAAGAT
 CCGGGATCAGTTGAAGGAAGAGGAGATCCACATCTACAGTTCCCCAATGTGACTCTGATGAAGATGAA
 GACTTCAAGAGGCAGGATGCAGAGATGAAGGAAAGCATCCCTTTGTCAGTCGTGGGATCATGCGAGGTGG
 TGAGGGATGGCGGAACCGCCGGTGAGGGGACGCCGCTACTCCTGGGGACCGTGGAGGTGGAGAACCC
 ACATCACTGCGATTTCTGAACCTGCGACGGATGCTGGTGCAGACACACCTGCAGGACCTGAAAGAGGTG
 ACGCACGATCTGCTCTACGAGGGCTACCGGGCCGCTGCCTACAGAGCCTGGCCCGCCTGGGGCTCGCG
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 GGACACCGAGAAGCTGATCCGCGAGAAAGACGAAGAGTGCGCCGATGCAAGAGATGCTGGAGAAGATG
 CAGGCCAAATGCAGCAGAGCCAGGCCAGGGCGAGCAGTCAGACGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204253 protein sequence
 Red=Cloning site Green=Tags(s)

MDKEYVGFAALPNQLHRKSVKKGFDFTLMVAGESGLGKSTLINSFLTNLYEDRQVPEASARLTQTLAIE
 RRGVEIEEGGVKVLTLVDTPGFGSDVDCSDCWLPPVKFIEEQFEQYLDESGLNRKNIQDSRVHCCLYF
 ISPFGRGLRPLDVAFLRAVHEKVNIIPVIGKADALMPQETQALKQKIRDQLKEEIIHIYQFPECDSDEDE
 DFKRQDAEMKESIPFAVVGSCVVRDGGNRPVRRYSWGTVEVENPHHCDFLNLRRMLVQTHLQDLKEV
 THDLLYEGYRARCQLSLARPGARDRASRKL SRQSATEIPLPMLPLADTEKLIREKDEELRRMQEMLEKM
 QAQMQQSQAQGEQSDAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052838

ORF Size: 1101 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_052838.3](#)

RefSeq Size: 1609 bp

RefSeq ORF: 1119 bp

Locus ID: 1731

UniProt ID: [Q8WYJ6](#)

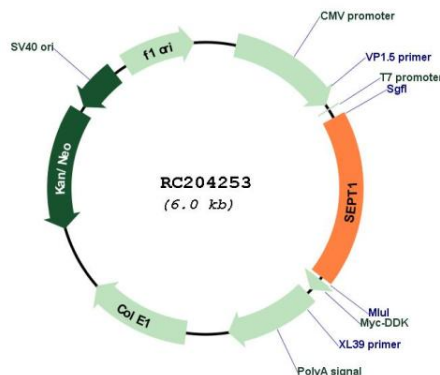
Cytogenetics: 16p11.2

Domains: GTP_CDC

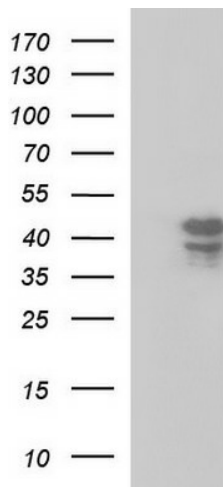
MW: 42 kDa

Gene Summary: This gene is a member of the septin family of GTPases. Members of this family are required for cytokinesis and the maintenance of cellular morphology. This gene encodes a protein that can form homo- and heterooligomeric filaments, and may contribute to the formation of neurofibrillary tangles in Alzheimer's disease. Alternatively spliced transcript variants have been found but the full-length nature of these variants has not been determined. [provided by RefSeq, Dec 2012]

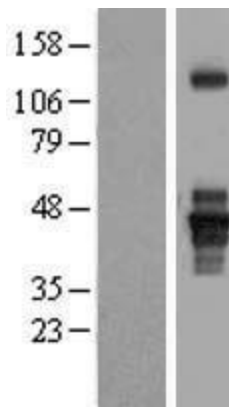
Product images:



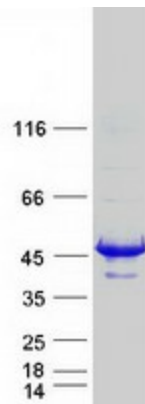
Circular map for RC204253



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SEPT1 (Cat# RC204253, 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-SEPT1 (Cat# [TA507284]). Positive lysates [LY409449] (100ug) and [LC409449] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409449]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204253 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEPTIN1 protein (Cat# [TP304253]). The protein was produced from HEK293T cells transfected with SEPTIN1 cDNA clone (Cat# RC204253) using MegaTran 2.0 (Cat# [TT210002]).