

Product datasheet for RC233985

SEPTIN7 (NM_001242956) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEPTIN7 (NM_001242956) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SEPTIN7
Synonyms: CDC3; CDC10; NBLA02942; SEPT7; SEPT7A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233985 representing NM_001242956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCTGAGGAGAGGAGCGTCAACAGCAGCACCATGGGTGAATCTG
GATTGGGAAAGTCGACATTAATCAACTCATTATTCCTCACAGATTTGTATTCTCCAGAGTATCCAGGTCC
TTCTCATAGAATTAAGAACTGTACAGGTGGAACAATCCAAAGTTTTAATCAAAGAAGGTGGTGTTCAG
TTGCTGCTCACAATAGTTGATACCCAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGCCAGCCTG
TTATCGACTACATTGATAGTAAATTTGAGGACTACCTAAATGCAGAATCACGAGTGAACAGACGTCAGAT
GCCTGATAACAGGTGCAGTGTGTTTATACTTATTGCTCCTTCAGGACATGGACTTAAACCATTGGAT
ATTGAGTTTATGAAGCGTTTGCATGAAAAAGTGAATATCATCCCCTTATTGCCAAAGCAGACACACTCA
CACCAGAGGAATGCCAACAGTTTAAAAACAGATAATGAAAGAAATCCAAGAACAATAAAATTAATAATA
CGAATTTCCAGAAACAGATGATGAAGAAGAAAATAAAGTTGTTAAAAAGATAAAGGACCGTTTACCTCTT
GCTGTGGTAGGTAGTAATACTATCATTGAAGTTAATGGCAAAAGGGTCCAGAGGAAGGCAGTATCCTTGGG
GTGTTGCTGAAGTTGAAAATGGTGAACATTGTGATTTACAATCCTAAGAAATATGTTGATAAGAACACA
CATGCAGGACTTGAAGATGTTACTAATAATGTCCACTATGAGAACTACAGAAGCAGAAAACCTTGCAGCT
GTGACTTATAATGGAGTTGATAACAACAAGAATAAAGGGCAGCTGACTAAGAGCCCTCTGGCACAATGG
AAGAAGAAAGAAAGGAGCATGTAGCTAAAATGAAGAAGATGGAGATGGAGATGGAGCAGGTGTTGAGAT
GAAGGTCAAAGAAAAGTTCAAAAACCTGAAGGACTCTGAAGCTGAGCTCCAGCGGCCCATGAGCAAATG
AAAAAGAATTTGGAAGCACAGCACAAGAATTGGAGGAAAAACGTCGTCAGTTCCGAGGATGAGAAAGCAA
ACTGGGAAGCTCAACAACGTATTTAGAACACAGAACTCTTCAAGAACCTTGGAAAAGAACAAGAAGAA
AGGAAGATCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233985 representing NM_001242956
 Red=Cloning site Green=Tags(s)

MSVSARSAAAEERSVNSSTMGESGLGKSTLINSFLFDLYPEYPGPGSHRIKKTQVEQSKVLIKEGGVQ
 LLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDYLNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLD
 IEFMKRLHEKVNIPLIAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDDEENKLVKKIKDRLPL
 AVVGSNTIEVNGKRVRGRQYPWGVAEVENGEHCDFITILRNMLIRTHMQDLKDVNTNVHYENYRSRKLAA
 VTYNGVDNKNKQQLTKSPLAQMEERREHVAKMKMEMEQVFEMKVKEKVQKLKDSEAEQLRRHEQM
 KKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQQNSSRTLEKNKKKGIKIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242956

ORF Size: 1203 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_001242956.1](#), [NP_001229885.1](#)

RefSeq Size: 4272 bp

RefSeq ORF: 1206 bp

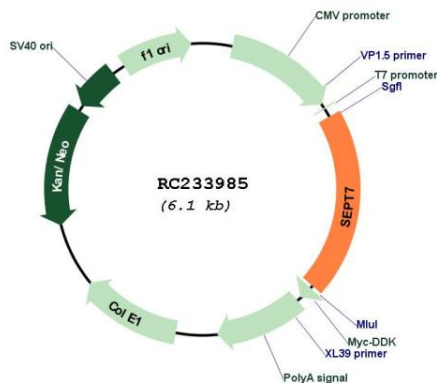
Locus ID: 989

Cytogenetics: 7p14.2

MW: 47 kDa

Gene Summary: This gene encodes a protein that is highly similar to the CDC10 protein of *Saccharomyces cerevisiae*. The protein also shares similarity with Diff 6 of *Drosophila* and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RC233985