

## Product datasheet for **RC213392**

### SEPTIN7 (NM\_001011553) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN7 (NM_001011553) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC213392 representing NM\_001011553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCTGAGGAGAGGAGCGTCAACAGCAGCACCATGGCTCAACAGA  
 AGAACCTTGAAGGCTATGTGGGATTTGCCAATCTCCCAAATCAAGTATACAGAAAATCGGTGAAGAGAGG  
 TTTGAATTCACGCTTATGGTAGTGGGTGAATCTGGATTGGGAAAAGTCGACATTAATCAACTCATTATTC  
 CTCACAGATTTGTATTCTCCAGAGTATCCAGGTCCTTCTCATAGAATAAAAAGACTGTACAGGTGGAAC  
 AATCCAAAGTTTTAATCAAAGAAGGTGGTTCAGTTGCTGCTCACAAATAGTTGATACCCAGGATTTGG  
 AGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAAGTAAATTTGAGGACTAC  
 CTAATGCAGAATCAGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGTGTTTATACTTCA  
 TTGCTCCTTCAGGACATGGACTTAAACCATTGGATATTGAGTTTATGAAGCGTTTGCATGAAAAAGTGAA  
 TATCATCCCACTTATTGCCAAAGCAGACACACTCACACCAGGGAATGCCAACAGTTTAAAAACAGATA  
 ATGAAAGAAATCCAAGAACATAAAATTAATATACGAATTTCCAGAAACAGATGATGAAGAAGAAAATA  
 AACTTGTTAAAAAGATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTATCATTGAAGTTAA  
 TGGCAAAGGGTCAGAGGAAGGCAGTATCCTTGGGGTGTGCTGAAGTTGAAAATGGTGAACATTGTGAT  
 TTTACAATCCTAAGAAATATGTTGATAAGAACACACATGCAGGACTTGAAAGATGTTACTAATAATGTCC  
 ACTATGAGAACTACAGAAGCAGAAAACCTGCAGCTGTGACTTATAATGGAGTTGATAACAACAAGAATAA  
 AGGGCAGCTGACTAAGAGCCCTCTGGCACAATGGAAGAAGAAAGGGAGCATGTAGCTAAAAAGAA  
 AAGATGGAGATGGAGATGGAGCAGGTGTTTGGATGAAGGTCAAAGAAAAAGTTCAAAAACCTGAAGGACT  
 CTGAAGCTGAGCTCCAGCGCGCCATGAGCAAATGAAAAAGAATTTGGAAGCACAGCACAAGAATTGGA  
 GAAAAACGTCGTCAGTTCCGAGGATGAGAAAGCAAACCTGGGAAGCTCAACAACGTATTTTGAACAACAG  
 AACTCTCAAGAACCTTGAAAAAGAACAAGAAGAAAGGAAGATCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC213392 representing NM\_001011553  
 Red=Cloning site Green=Tags(s)

MSVSARSAAAEEERSVNSSTMAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESLKGKSTLINSFL  
 LTDLYSPEYPGPSHRIKKTVQVEQSKVL IKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDY  
 LNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNI IPLIAKADLTPEECQQFKKQI  
 MKEIQEHKIKIYEFPETDDEENKLVKIKDRLPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCD  
 FTILRNMLIRTHMQDLKDVNTNNVHYENYRSRKLAAVTYNGVDNNKNGQLTKSPLAQMEERREHVAKMK  
 KMEMEQVFEMKVKEKVQKLKDEAELQRRHEQMKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQQ  
 NSSRTLEKNKKKGIKIF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_g09.zip](https://cdn.origene.com/chromatograms/mk8059_g09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001011553

**ORF Size:** 1308 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\\_001011553.3](#), [NP\\_001011553.2](#)

**RefSeq Size:** 2531 bp

**RefSeq ORF:** 1311 bp

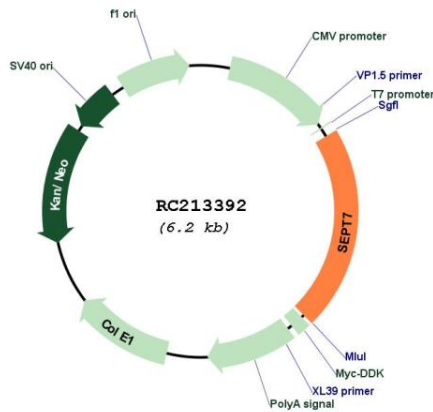
**Locus ID:** 989

**Cytogenetics:** 7p14.2

**MW:** 50.4 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 RC213392