

## Product datasheet for RC205163

### SEPTIN7 (NM\_001788) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN7 (NM_001788) 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:	>RC205163 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAACAGAAGAACCTTGAAGGCTATGTGGGATTTGCCAATCTCCCAAATCAAGTATACAGAAAAT  
CGGTGAAGAGAGGTTTTGAATTCACGCTTATGGTAGTGGTGAATCTGGATTGGGAAAGTCGACATTAAT  
CAACTCATTATTCCTCACAGATTTGTATTCTCCAGAGTATCCAGGTCCTTCTCATAGAATAAAAAGACT  
GTACAGGTGGAACAATCCAAAGTTTTAATCAAAGAAGGTGGTGTTCAGTTGCTGCTCACAATAGTTGATA  
CCCCAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAA  
ATTTGAGGACTACCTAAATGCAGAATCAGGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGT  
TGTTTATACTTCATTGCTCCTTCAGGACATGGACTTAAACCATTGGATATTGAGTTTATGAAGCGTTTGC  
ATGAAAAAGTGAATATCATCCCCTTATTGCCAAGCAGACACACTCACACCAGAGGAATGCCAACAGTT  
TAAAAACAGATAATGAAAGAAATCCAAGAACATAAAATTAATAATACGAATTTCCAGAAACAGATGAT  
GAAGAAGAAAATAAAGTTGTTAAAAAGATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTA  
TCATTGAAGTTAATGGCAAAAGGGTCAGAGGAAGGCAGTATCCTTGGGGTGTGCTGAAGTTGAAAATGG  
TGAACATTGTGATTTTACAATCCTAAGAAATATGTTGATAAAGAACACACATGCAGGACTTGAAAGATGTT  
ACTAATAATGCCACTATGAGAACTACAGAAGCAGAAAACCTTGACGCTGTGACTTATAATGGAGTTGATA  
ACAACAAGAATAAAGGGCAGCTGACTAAGAGCCCTCTGGCACAAATGGAAGAAGAAAGAAGGGAGCATGT  
AGCTAAAATGAAGAAGATGGAGATGGAGATGGAGCAGGTGTTTGGAGTGAAGGTCAAAGAAAAAGTTCAA  
AAACTGAAGGACTCTGAAGCTGAGCTCCAGCGGCCATGAGCAAATGAAAAAGAAATTTGGAAGCACAGC  
ACAAAGAATTGGAGGAAAAACGTCGTCAGTTCGAGGATGAGAAAGCAAACCTGGGAAGCTCAACAACGTAT  
TTTAGAACAACAGAACTCTCAAGAACCTTGGAAAAGAACAAGAAGAAAGGAAGATCTTT

**ACGGT**ACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001788.3](#), [NP\\_001779.2](#)

**RefSeq Size:** 4380 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 989

**UniProt ID:** [Q16181](#)

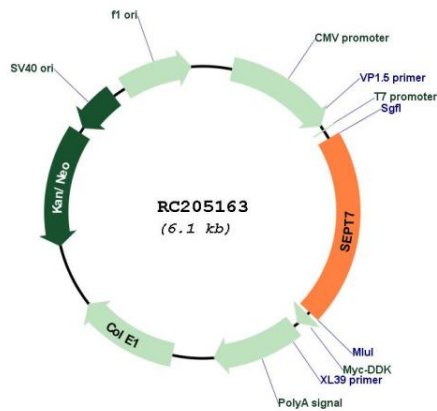
**Cytogenetics:** 7p14.2

**Domains:** GTP\_CDC

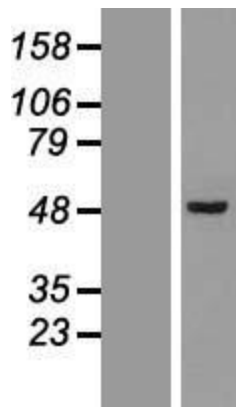
**MW:** 48.7 kDa

**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]

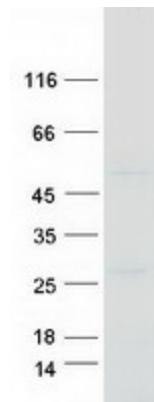
Product images:



Circular map for RC205163



Western blot validation of overexpression lysate (Cat# [LY419745]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEPTIN7 protein (Cat# [TP305163]). The protein was produced from HEK293T cells transfected with SEPTIN7 cDNA clone (Cat# RC205163) using MegaTran 2.0 (Cat# [TT210002]).