

## Product datasheet for PH305163

### SEPTIN7 (NM\_001788) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SEPT7 MS Standard C13 and N15-labeled recombinant protein (NP_001779)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205163
Predicted MW:	48.7 kDa
Protein Sequence:	>RC205163 protein sequence Red=Cloning site Green=Tags(s)

MAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSFLTDLYSPEYGPSPHRIKKT  
VQVEQSKVLIKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDYLNAE SRVNRQMPDNRVQC  
CLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDD  
EEENKLVKKIKDRLPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCDFILRNMLIRTHMQDLKDV  
TNNVHYENYRSRKLAAVTYNGVDNKNKGQLTKSPLAQMEERREHVAKMKMEMEQVFEMKVKEKVQ  
KLDSEAE LQRRHEQMKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQQNSSRTLEKNKKKGKIF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001779</u>
RefSeq Size:	4380
RefSeq ORF:	1254
Synonyms:	CDC3; CDC10; NBLA02942; SEPT7; SEPT7A
Locus ID:	989



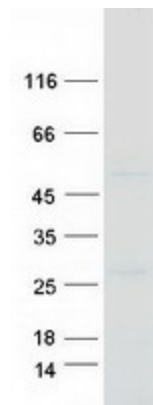
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UniProt ID: [Q16181](#)

Cytogenetics: 7p14.2

**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:



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]).