

## Product datasheet for PH306831

### SEPTIN5 (NM\_002688) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SEPT5 MS Standard C13 and N15-labeled recombinant protein (NP_002679)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206831
Predicted MW:	42.8 kDa
Protein Sequence:	>RC206831 protein sequence Red=Cloning site Green=Tags(s)
	MSTGLRYKSKLATPEDKQDIDKQYVGFATLPNQVHRKSVKKGDFFTLMVAGESGLGKSTLVHSLFLTDLY KDRKLLSAEERISQTVEILKHTVDIEEKGVKCLKLTIVDTPGFGDAVNNTECWKPIITDYVDQQFEQYFRDE SGLNRKNIQDNRVHCCLYFISPFHGGLRPVDVGFMKALHEKVNIIVPLIAKADCLVPSEIRKLKERIREEI DKFGIHVYQFPECDSEDEDFKQDRELKESAPFAVIGSNTVVEAKGQVRVGRLYPWGIVEVENQAHCDF VKLRNMLIRTHMHDLDKVDTCDVHYENYRAHCIQQMTSKLTQDSRMESPIILPLPTDAETEKLRMKDE ELRRMQEMLQRMKQMQDQ
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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><a href="#">NP_002679</a></u>
RefSeq Size:	2090
RefSeq ORF:	1107
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNU TL1; SEPT5
Locus ID:	5413



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UniProt ID: [Q99719](#), [X5DNA9](#)

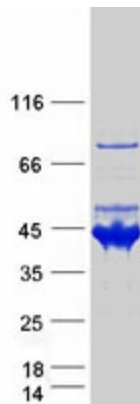
Cytogenetics: 22q11.21

**Summary:** This gene is a member of the septin gene family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, *Drosophila*, and mouse and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is mapped to 22q11, the region frequently deleted in DiGeorge and velocardiofacial syndromes. A translocation involving the MLL gene and this gene has also been reported in patients with acute myeloid leukemia. Alternative splicing results in multiple transcript variants. The presence of a non-consensus polyA signal (ACAAT) in this gene also results in read-through transcription into the downstream neighboring gene (GP1BB; platelet glycoprotein Ib), whereby larger, non-coding transcripts are produced. [provided by RefSeq, Dec 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Parkinson's disease

### Product images:



Coomassie blue staining of purified SEPTIN5 protein (Cat# [TP306831]). The protein was produced from HEK293T cells transfected with SEPTIN5 cDNA clone (Cat# [RC206831]) using MegaTran 2.0 (Cat# [TT210002]).