Recombinant Human SEPT5, HIS-tagged

Cat. No. SEPT5-31398TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 14-369 of Human SEPT5 with N terminal His tag. Predicted mwt: 42 kDa; observed mwt: 47 kDa;
Species	Human
Source	E.coli
ProteinLength	14-369 a.a.
Description	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 (AACAAT) 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.
Conjugation	HIS
Tissue specificity	Expressed at high levels in the CNS, as well as in heart and platelets (at protein level).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilised:Reconstitution with 53 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	(Amino acid sequence (Sequence determined by 5 Sequencing))PEDKQDIDKQYVG FATLPNQVHRKSV KKGFDFTLMVAGESGLGKSTLVHSLFLTDLYKDRKLLS AEERIS QTVEILKHTVDIEEKGVKLKLTIVDTPGFGDAVN NTECWKPITDYVDQQFEQYFRDE SGLNRKNIQDNRVHC CLYFISPFGHGLRPVDVGFMKALHEKVNIVPLIAKADC LVPS EIRKLKERIREEIDKFGIHVYQFPECDSDEDEDF KQQDRELKESAPFAVIGSNTVVEA KGQRVRGRLYPWGIVE VENQAHCDFVKLRNMLIRTHMHDLKDVTCDVHYENYRA HCIQQMTSKLTQDSRMESPIPILPLPTPDAETEKLIRM KDEELRRMQEMLQRMKQQ MQDQ
Sequence Similarities	Belongs to the septin family.

GENE INFORMATION

Gene Name	SEPT5 septin 5 [Homo sapiens]
Official Symbol	SEPT5
Synonyms	SEPT5; septin 5; peanut like 1 (Drosophila) , PNUTL1; septin-5; H5; HCDCREL 1;
Gene ID	5413
mRNA Refseq	NM_001009939

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_001009939
MIM	602724
Uniprot ID	Q99719
Chromosome Location	22q11.2
Pathway	Parkinsons disease, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; protein binding; structural molecule activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA