

## Product datasheet for RC232540

### SEPTIN5 (NM\_001009939) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN5 (NM_001009939) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPTIN5
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNUTL1; SEPT5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232540 representing NM_001009939 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACTCGTGGCAGCGCCCCAGGACCGCTGGTGGAGCAGCTGCTGTCGCCGCGGACCCAGGCCCAGA  
GGCGGCTCAAGGACATTGACAAGCAGTACGTGGGCTTCGCCACACTGCCCAACCAGGTGCACCGCAAGTC  
GGTGAAGAAAGGCTTTGACTTCACACTCATGGTGGCTGGTGGAGTCAAGCCTGGGGAAGTCCACACTGGTC  
CACAGCCTCTTCCTGACAGACTTGTACAAGGACCGGAAGCTGCTCAGTGTGAGGAGCGCATCAGCCAGA  
CGGTAGAGATTCTAAAACACACGGTGGACATTGAGGAGAAGGGAGTCAAGCTGAAGCTCACCATCGTGGA  
CACGCCGGGATTCGGGGACGCTGTCAACAACACCGAGTGTGGAAGCCATCACCGACTATGTGGACCAG  
CAGTTTGAGCAGTACTTCCGTGATGAGAGCGGCCCTCAACCGAAAGAACATCCAAGACAACCGAGTGCCT  
GCTGCCTATACTTCATCTCCCCCTTCGGGCATGGGCTGCGGCCAGTGGATGTGGGTTTCATGAAGGCATT  
GCATGAGAAGGTCAACATCGTGCCTCTCATCGCCAAAGCTGACTGTCTTGTCCCCAGTGAGATCCGGAAG  
CTGAAGGAGCGGATCCGGGAGGAGATTGACAAGTTTGGGATCCATGTATACCAGTCCCTGAGTGTGACT  
CGGACGAGGATGAGGACTTCAAGCAGCAGGACCGGGAACCTGAAGGAGAGCGGCCCTTCGCCGTTATAGG  
CAGCAACACGGTGGTGGAGGCCAAGGGGACGGGTCCGGGGCCGACTGTACCCCTGGGGGATCGTGGAG  
GGCGCATTGCGACTTCGTGAAGCTGCGCAACATGCTCATCCGCACGCATATGCACGACCTCAAGGACGTG  
ACGTGCGACGTGCACTACGAGAATACCGCGCAGTGCATCCAGCAGATGACCAGCAAAGTCAAGCCAGG  
ACAGCCGCATGGAGAGCCCCATCCCGATCCTGCCGCTGCCACCCCGGACGCCGAGAC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC232540 representing NM\_001009939  
 Red=Cloning site Green=Tags(s)

MDSLAAPQDRLVEQLLSPRTQAQRRLKDIDKQYVGFATLPNQVHRKSVKKGFDFTLMVAGESGLGKSTLV  
 HSLFLTDLYKDRKLLSAERISQTVEILKHTVDIEEKGVKLLTIVDTPGFGDAVNNTECWKPI TDYVDQ  
 QFEQYFRDESGLNRKNIQDNRVHCCLYFISPFHGHLRPVDVGFMKALHEKVNIVPLIAKADCLVPSEIRK  
 LKERIREEIDKFGIHVYQFPECDSEDEDFKQQDRELKESAPFAVIGSNTVVEAKQQRVVRGRLYPWGIVE  
 GALRLREAAQHAHPHAYARPQGRDVRRLRELPRALHPADDQQTDPGQPHGEPHPDAAAHPGRRD

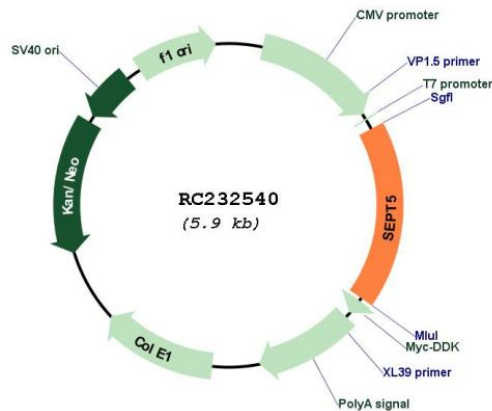
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001009939

**ORF Size:** 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001009939.3</a>
<b>RefSeq Size:</b>	2284 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	5413
<b>UniProt ID:</b>	<a href="#">Q99719</a>
<b>Cytogenetics:</b>	22q11.21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Parkinson's disease
<b>MW:</b>	39.8 kDa
<b>Gene Summary:</b>	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 (AACAAAT) 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]