

## Product datasheet for SC118516

### SEPTIN5 (NM\_002688) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN5 (NM_002688) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN5
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNUTL1; SEPT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118516 sequence for NM_002688 edited (data generated by NextGen Sequencing)

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ATGAGCACAGGCCTGCGGTACAAGAGCAAGCTGGCGACCCAGAGGACAAGCAGGACATT
GACAAGCAGTACGTGGGCTTCGCCACACTGCCCAACCAGGTGCACCGCAAGTCGGTGAAG
AAAGGCTTTGACTTCACACTCATGGTGGCTGGTGAAGTCAAGCCTGGGGAAGTCCACACTG
GTCCACAGCCTCTTCTGACAGACTTGTACAAGGACCGGAAGCTGCTCAGTGCTGAGGAG
CGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGGACATTGAGGAGAAGGGAGTC
AAGCTGAAGCTCACCATCGTGGACACGCCGGGATTCGGGGACGCTGTCAACAACCCGAG
TGCTGGAAGCCCATCACCGACTATGTGGACCAGCAGTTTGAGCAGTACTCCGTGATGAG
AGCGGCCTCAACCGAAAGAACATCCAAGACAACCGAGTGCCTGCTGCTATACTTCATC
TCCCCCTTCGGGCATGGGCTGCGGCCAGTGGATGTGGTTTCATGAAGGCATTGCATGAG
AAGGTCAACATCGTGCCTCTCATCGCCAAAGCTGACTGTCTTGTCCCCAGTGAGATCCGG
AAGCTGAAGGAGCGGATCCGGGAGGAGATTGACAAGTTTGGGATCCATGTATACCAAGTTC
CCTGAGTGTGACTCGGACGAGGATGAGGACTTCAAGCAGCAGGACCGGGAAGTGAAGGAG
AGCGCGCCCTTCGCCGTTATAGGCAGCAACACGGTGGTGGAGGCCAAGGGGCAGCGGGTC
CGGGGCCGACTGTACCCCTGGGGATCGTGGAGGTGGAGAACCAGGCGCATTGCGACTTC
GTGAAGCTGCGCAACATGCTCATCCGCACGCATATGCACGACCTCAAGGACGTGACGTGC
GACGTGCACTACGAGAACTACCGCGCCTGTCATCCAGCAGATGACCAGCAAATGACC
CAGGACAGCCGATGGAGAGCCCCATCCCGATCCTGCCGCTGCCACCCCGGACGCGCGAG
ACTGAGAAGCTTATCAGGATGAAGGATGAGGAACTGAGGCGCATGCAGGAGATGCTGCAG
AGGATGAAGCAGCAGATGCAGGACCAGTGA

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Clone variation with respect to NM\_002688.5



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002688 unedited</p> <pre> CGGCCGGCGAATTCGCACGAGGGCGCGGAGGGGCCGCTCACCCCGCAGCCCGGCCTCGGC CTCCGCGCCTTGTGTCGCGCCCCCGCCGCGAGCCCGCCCGCACGTCCCCCGCCGGCGG CCACCATGAGCACAGGCCTGCGGTACAAGAGCAAGCTGGCGACCCAGAGGACAAGCAGG ACATTGACAAGCAGTACGTGGGCTTCGCCACACTGCCAACAGGTGCACCGCAAGTCGG TGAAGAAAAGCTTTGACTTCACACTCATGGTGGCTGGTGTAGTCAAGCCTGGGGAAGTCCA CACTGGTCCACAGCCTCTTCTGACAGACTTGTACAAGGACCCGGAAGCTGCTCAGTGCTG AGGAGCGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGGACATTGAGGAGAAGG GAGTCAAGCTGAAGCTCACCATCGTGGACACGCCGGGATTGCGGGACGCTGTCAACAACA CCGAGTGCTGGAAGCCATCACCGACTATGTGGACCAGCAGTTTGAGCAGTACTTCCGTG ATGAGAGCGGCCTCAACCGAAAGAACATCCAAGACAACCGAGTGCAGTGCCTATACT TCATCTCCCCCTTCGGGCATGGGCTGCGGCCAGTGATGTTGGGTTTCATGAAGGCATTGA NTGAGAAGGTCAACATCGTGCCTCTCATCGAAAGCTGACTGTCTGTCCAAATTGGATC CNGAAGCTGANGNANCGGATCCNGNAAGNAATTGAACAGTTTTTGGGATCCATGTTTTA CCCAGTCCCTTGATTGTGACTTCGACCAAGGATGAGGACTTCAAGCAGCAGACCCGGGACT GGAAGGAAAACGCGCCTTCCCGTATAGCGACACCCGGGGGGGGGAGC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002688 unedited</p> <pre> NATATCTTGCCCGCGCCGCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGTCCCAACATTGTTCTCCTG TCACCAAGACAGGACCCGGGTTTACAACGGAACAAAACCGGGCCTTGCGGGGGGGAAG GGATCATGCGGGGGGAACATTGGGGGGCCTAAGCTTAAGATCCCGGCCACCACAAGGG GGCTGGGGAACAAAAGGCCTCCAGCGAGGGCCGGGACCCGCCCCAAAGTTGCCCGGAGGG GGGTTACCCCCAAGGCCCGGGGGCCCTCAAGTCGGGCGGGCTTTGGAAGGAGGGG TAAACGGTCAACACCCCTCCTTGGAACCTTTGGCCTCCTTTGTTGGGGGGCTCCCA TTTGATTAACCAACCTTCCCTTAGGGTTTGGGATAAAGGAAAACCTCGGCCCCC TCGACAAAAATGGGGGCTCAACTCCCTGGGGGACCCCGGGAACAGGCAAAGGAGGG CTCCCAAGTCCCTTTGCACACTGGGGCCGGGAACAAACCCACGATCCTGGGAAACCTTT TTTGCCTAACTTTGCCTGCCTGCCAAAACAAGGCCTGGGGTTTTGGGTGGCTGGGACCC CCCCGGGGGGGGGGGAAAAGGCAAAGGGAGGCCGATTCTTGAAATCCCGCCCACT TTCCCTCCTGTTCCCCCAGGGCACAAAAGAGGCCACTGGGGGGGGGGCTTCGTTCCAC GGCCCTTGGAACAAACAACATGACCTGGGAGGGGGGGGGCCCAAAATAAATAAGGG ACCTTGGGGGCTGGTGCCTCCGCTCCTCCGGGGGAGAACAATCCGCGCTGTGTTCCAAG GGGCCAAGGGCTCCCGCAACAACCCGTTTCCCGCGCACACCCGCCCCCGTTATG GGTTCTTCTTTGCG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002688
<b>Insert Size:</b>	2080 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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\\_002688.3](#), [NP\\_002679.2](#)

**RefSeq Size:** 2080 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 5413

**UniProt ID:** [Q99719](#)

**Cytogenetics:** 22q11.21

**Domains:** GTP\_CDC

**Protein Families:** Druggable Genome

**Protein Pathways:** Parkinson's disease

**Gene 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 (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]

Transcript Variant: This variant (1) encodes the longer isoform (1).