

Product datasheet for RC206831

SEPTIN5 (NM_002688) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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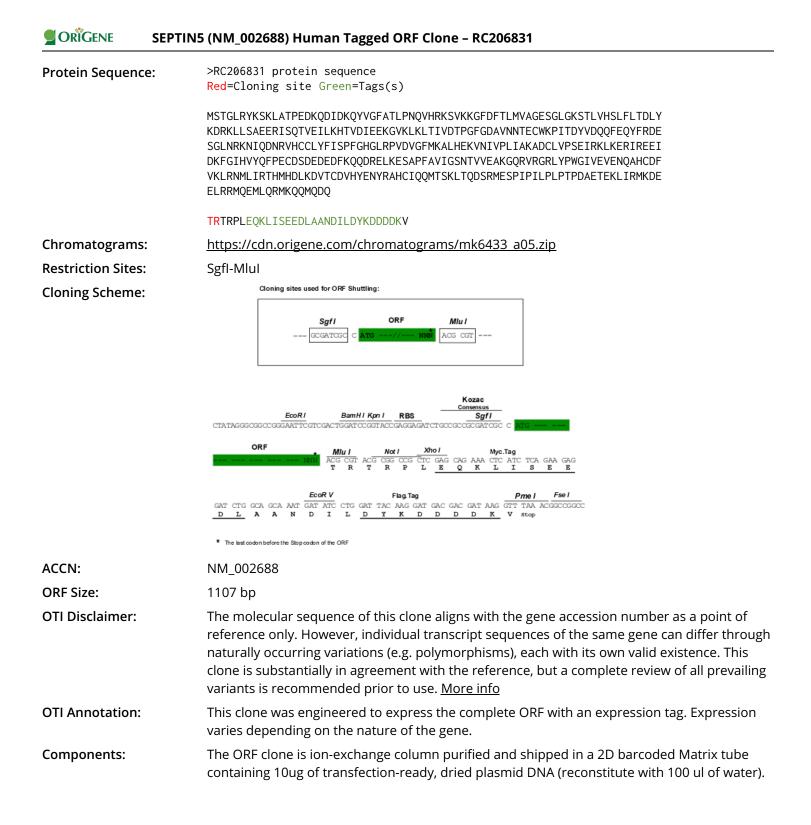
Product Type:	Expression Plasmids
Product Name:	SEPTIN5 (NM_002688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPTIN5
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNUTL1; SEPT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC206831 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCACAGGCCTGCGGTACAAGAGCAAGCTGGCGACCCCAGAGGACAAGCAGGACATTGACAAGCAGT ACGTGGGCTTCGCCACACTGCCCAACCAGGTGCACCGCCAAGTCGGTGAAGAAAGGCTTTGACTTCACACT

GCAGT CACT CATGGTGGCTGGTGAGTCAGGCCTGGGGAAGTCCACACTGGTCCACAGCCTCTTCCTGACAGACTTGTAC AAGGACCGGAAGCTGCTCAGTGCTGAGGAGCGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGG ACATTGAGGAGAAGGGAGTCAAGCTGAAGCTCACCATCGTGGACACGCCGGGATTCGGGGACGCTGTCAA CAACACCGAGTGCTGGAAGCCCATCACCGACTATGTGGACCAGCAGTTTGAGCAGTACTTCCGTGATGAG AGCGGCCTCAACCGAAAGAACATCCAAGACAACCGAGTGCACTGCTGCCTATACTTCATCTCCCCCTTCG GGCATGGGCTGCGGCCAGTGGATGTGGGTTTCATGAAGGCATTGCATGAGAAGGTCAACATCGTGCCTCT CATCGCCAAAGCTGACTGTCTTGTCCCCAGTGAGATCCGGAAGCTGAAGGAGCGGATCCGGGAGGAGATT GACAAGTTTGGGATCCATGTATACCAGTTCCCTGAGTGTGACTCGGACGAGGATGAGGACTTCAAGCAGC AGGACCGGGAACTGAAGGAGAGCGCGCCCTTCGCCGTTATAGGCAGCAACACGGTGGTGGAGGCCAAGGG GCAGCGGGTCCGGGGCCGACTGTACCCCTGGGGGGATCGTGGAGGTGGAGAACCAGGCGCATTGCGACTTC GTGAAGCTGCGCAACATGCTCATCCGCACGCATATGCACGACCTCAAGGACGTGACGTGCGACGTGCACT ACGAGAACTACCGCGCGCACTGCATCCAGCAGATGACCAGCAAACTGACCCAGGACAGCCGCATGGAGAG CCCCATCCCGATCCTGCCGCTGCCCACCCCGGACGCCGAGACTGAGAAGCTTATCAGGATGAAGGATGAG GAACTGAGGCGCATGCAGGAGATGCTGCAGAGGATGAAGCAGCAGATGCAGGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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SEPTIN5 (NM_002688) Human Tagged ORF Clone – RC206831

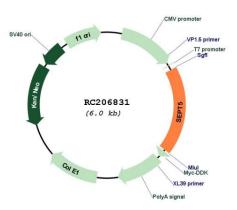
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 002688.6</u>
RefSeq Size:	2090 bp
RefSeq ORF:	1110 bp
Locus ID:	5413
UniProt ID:	<u>Q99719</u>
Cytogenetics:	22q11.21
Domains:	GTP_CDC
Protein Families:	Druggable Genome
Protein Pathways:	Parkinson's disease
MW:	42.8 kDa
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

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 lb), whereby larger, non-coding transcripts are produced. [provided by RefSeq, Dec 2010]

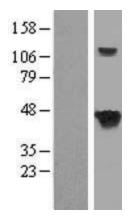
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Product images:

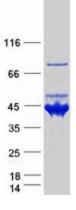


Circular map for RC206831



Western blot validation of overexpression lysate (Cat# [LY419167]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206831 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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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]).

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