

Product datasheet for **RG206831**

SEPTIN5 (NM_002688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN5 (NM_002688) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN5
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNUTL1; SEPT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206831 representing NM_002688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACAGGCCTGCGGTACAAGAGCAAGCTGGCGACCCAGAGGACAAGCAGGACATTGACAAGCAGT
ACGTGGGCTTCGCCACACTGCCAACAGGTGCACCGCAAGTCGGTGAAGAAAGGCTTTGACTTCACACT
CATGGTGGCTGGTGAAGTCAAGCTGAGGAGCGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGG
AAGGACCGGAAGCTGCTCAGTGTGAGGAGCGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGG
ACATTGAGGAGAAGGGAGTCAAGCTGAAGCTCACCATCGTGGACACGCCGGGATTCGGGGACGCTGTCAA
CAACACCGAGTGTGGAAGCCATCACCGACTATGTGGACCAGCAGTTTGAGCAGTACTTCGGTGTGAG
AGCGGCCCTCAACCGAAAGAACATCCAAGACAACCGAGTGCAGTGCCTATACTTCATCTCCCCCTTCG
GGCATGGGCTGCGGCCAGTGGATGTGGGTTTCATGAAGGCATTGCATGAGAAGGTCAACATCGTGCCTCT
CATCGCCAAAGCTGACTGTCTTGTCCCCAGTGAGATCCGGAAGCTGAAGGAGCGGATCCGGGAGGAGATT
GACAAGTTTGGGATCCATGTATACCAAGTCCCTGAGTGTGACTCGGACGAGGATGAGGACTTCAAGCAGC
AGGACCGGAACTGAAGGAGAGCGGCCCTTCGCCGTTATAGGCAGCAACACGGTGGTGGAGGCCAAGGG
GCAGCGGGTCCGGGCCGACTGTACCCCTGGGGGATCGTGGAGGTGGAGAACCAGGCGCATTGCGACTTC
GTGAAGCTGCGCAACATGCTCATCCGCACGATATGCACGACCTCAAGGACGTGACGTGCGACGTGCAT
ACGAGAACTACCGCGCGCACTGCATCCAGCAGATGACCAGCAAAGTACCAGGACAGCCGATGGAGAG
CCCCATCCCGATCCTGCCGCTGCCACCCCGGACGCCGAGACTGAGAAGTTATCAGGATGAAGGATGAG
GAACTGAGGCGCATGCAGGAGATGCTGCAGAGGATGAAGCAGCAGATGCAGGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206831 representing NM_002688
Red=Cloning site Green=Tags(s)

MSTGLRYKSKLATPEDKQDIDKQYVGFATLPNQVHRKSVKKGDFFTLMVAGESGLGKSTLVHSLFLTDLY
 KDRKLLSAEERISQTVELKHTVDIEEKGVKLLKLTIVDTPGFGDAVNNTCEWKPI TDYVDQQFEQYFRDE
 SGLNRKNIQDNRVHCCLYFISPFHGLRPVDVGFMKALHEKVNI VPLIAKADCLVPSEIRKLERIREEI
 DKFGIHVYQFPECDSDEDEDFKQQDRELKESAPFAVIGSNTVVEAKGQVRGRLYPWGIVEVENQAHCDF
 VKLRNMLIRTHMHDLDKVTCDVHYENYRAHCIQQMTSKLTQDSRMESPIILPLPTDAETEKLIRMKDE
 ELRRMQEMLQRMKQMQDQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002688

ORF Size: 1107 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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_002688.6](#)

RefSeq Size: 3525 bp

RefSeq ORF: 1110 bp

Locus ID: 5413

UniProt ID: [Q99719](#)

Cytogenetics: 22q11.21

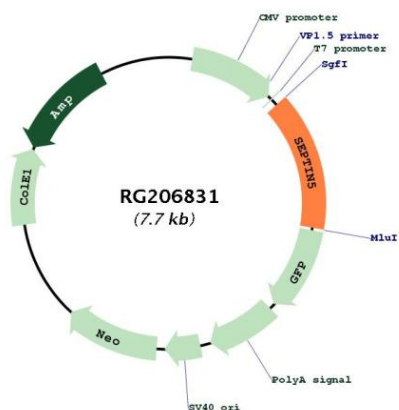
Domains: GTP_CDC

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]

Product images:



Circular map for RG206831