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Product datasheet for SC329404

SEPTIN5 (NM_001009939) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN5 (NM_001009939) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN5
Synonyms:	CDCREL; CDCREL-1; CDCREL1; H5; HCDCREL-1; PNUTL1; SEPT5
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC329404 representing NM_001009939. Blue=Insert sequence Red=Cloning site Green=Tag(s) ATGGACTCGCTGGCAGCGCCCCAGGACCGCCTGGTGGAGCAGCTGCTGTCGCCGCGGACCCAGGCCCAG AGGCGGCTCAAGGACATTGACAAGCAGTACGTGGGCTTCGCCACACTGCCCAACCAGGTGCACCGCAAG TCGGTGAAGAAAGGCTTTGACTTCACACTCATGGTGGCTGGTGAGTCAGGCCTGGGGAAGTCCACACTG GTCCACAGCCTCTTCCTGACAGACTTGTACAAGGACCGGAAGCTGCTCAGTGCTGAGGAGCGCATCAGC CAGACGGTAGAGATTCTAAAACACACGGTGGACATTGAGGAGAAGGGAGTCAAGCTGAAGCTCACCATC GTGGACACGCCGGGATTCGGGGACGCTGTCAACAACACCGAGTGCTGGAAGCCCATCACCGACTATGTG GACCAGCAGTTTGAGCAGTACTTCCGTGATGAGAGCGGCCTCAACCGAAAGAACATCCAAGACAACCGA GTGCACTGCTGCCTATACTTCATCTCCCCCTTCGGGCATGGGCTGCGGCCAGTGGATGTGGGTTTCATG AAGGCATTGCATGAGAAGGTCAACATCGTGCCTCTCATCGCCAAAGCTGACTGTCTTGTCCCCAGTGAG ATCCGGAAGCTGAAGGAGCGGATCCGGGAGGAGATTGACAAGTTTGGGATCCATGTATACCAGTTCCCT GAGTGTGACTCGGACGAGGATGAGGACTTCAAGCAGCAGGACCGGGAACTGAAGGAGAGCGCGCCCTTC GCCGTTATAGGCAGCAACACGGTGGTGGAGGCCAAGGGGCAGCGGGTCCGGGGCCGACTGTACCCCTGG GGGATCGTGGAGGGCGCATTGCGACTTCGTGAAGCTGCGCAACATGCTCATCCGCACGCATATGCACGA CCTCAAGGACGTGACGTGCGACGTGCACTACGAGAACTACCGCGCGCACTGCATCCAGCAGATGACCAG CAAACTGACCCAGGACAGCCGCATGGAGAGCCCCATCCCGATCCTGCCGCTGCCCACCCCGGACGCCGA GACTGA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001009939
Insert Size:	1041 bp
OTI Disclaimer:	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).

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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_001009939.2
RefSeq Size:	2284 bp
RefSeq ORF:	1041 bp
Locus ID:	5413
UniProt ID:	Q99719
Cytogenetics:	22q11.21
Protein Families:	Druggable Genome
Protein Pathways:	Parkinson's disease
MW:	39.3 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 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. [provided by RefSeq, Dec 2010] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform 2 has a shorter and distinct N-terminus, compared to isoform 1.