

Product datasheet for **SC125356**

SEPTIN4 (NM_080416) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_080416) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNU TL2; SEP4; SEPT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125356 sequence for NM_080416 edited (data generated by NextGen Sequencing)

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ATGATCAAGCGTTTCCTGGAGGACACCACGGATGATGGAGAAGTTCGTGAAG
GATTTCTCAGGAAATGCGAGCTGCCACCCACCAGAGGCTAAGACCTGGGCATCCAGGCC
CAAGTCCCGGAGCCAAGGCCCCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCAGA
CCCCCTCGCGGCCCCAGTCTCTGACAACCAGCAGTACTTCTGTGCCCCAGCCCCTCTC
AGCCCATCTGCCAGGCCCCGAGCCCATGGGGCAAGCTTGATCCCTATGATTCCTCTGAG
GATGACAAGGAGTATGTGGGCTTTGCAACCCTCCCAACCAAGTCCACCGAAAAGTCCGTG
AAGAAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGGGCAAATCCACA
CTTGTC AATAGCCTCTTCTCACTGATCTGTACCGGGACCGGAAACTTCTTGGTGCTGAA
GAGAGGATCATGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGGT
GTGAGGCTGCGGCTCACCATTGTGGACACACCAGGTTTTGGGGATGCAGTCAACAACACA
GAGTGCTGGAAGCCTGTGGCAGAATACATTGATCAGCAGTTTGAGCAGTATTTCCGAGAC
GAGAGTGGCCTGAACCGAAAGAACATCCAAGACAACAGGGTGCAGTCTGCCTGACTTC
ATCTCACCTTCCGCCATGGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCAT
CAGCGGGTCAACATCGTGCCTATCCTGGCTAAGGCAGACACACTGACACCTCCCGAAGTG
GACCACAAGAAACGAAAATCCGGGAGGAGATTGAGCATTTTGAATCAAGATCTATCAA
TTCCCAGACTGTGACTCTGATGAGGATGAGGACTTCAAATTCAGGACCAAGCCCTAAAG
GAAAGCATCCCATTGTCAGTAATTGGCAGCAACACTGTAGTAGAGGCCAGAGGGCCGCGA
GTTTCGGGGTTCGACTCTACCCCTGGGCATCGTGGAAGTGAAAACCCAGGGCACTGCGAC
TTTGTGAAGCTGAGGACAATGCTGGTACGTACCCACATGCAGGACCTGAAGGATGTGACA
CGGGAGACACATTATGAGAACTACCGGGCACAGTGCATCCAGAGCATGACCCGCCTGGT
GTGAAGGAACGGAATCGCAACAACTGACTCGGGAAAAGTGGTACCGACTTCCCCATCCCT
GCTGTCCCACCAGGGACAGATCCAGAACTGAGAAGCTTATCCGAGAGAAAGATGAGGAG
CTGCGGCGGATGCAGGAGATGCTACACAAAATACAAAAACAGATGAAGGAGAAGTATTAA

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Clone variation with respect to NM_080416.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080416 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGCAGCCATGATCAAGC GTTTCCTGGAGGACACCACGGATGATGGAGAACTGAGCAAGTTCGTGAAGGATTTCTCAG GAAATGCGAGCTGCCACCCACGAGGCTAAGACCTGGGCATCCAGGCCCAAGTCCCGG AGCCAAGGCCCGAGGCCCGGACCTCTATGATGATGACCTGGAGTTCAGACCCCTCGC GGCCCCAGTCTCTGACAACCAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCCATCTG CCAGGCCCGCAGCCCATGGGGCAAGCTTGATCCCTATGATTCCCTCTGAGGATGACAAGG AGTAGTGGGCTTTGCAACCCTCCCAACCAAGTCCACCGAAAGTCCGTGAAGAAAGGCT TTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGNGCAAATCCACACTTGCAATA GCCTCTTCTCACTGATCTGTACCGGGACCGAAACTTCTTGGTGTGAAGAGAGGATCA TGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGTGTGATGCTGCG GTTACCTTGTGGACACCCAGGTTTTGGGGATGCACCCACAACACAGACGGCTGGAGCC TGTGGCAGATACATTGATCAGAGCTTGACCATTTTTCAAGACAGAGGGGCTGACCCGAAA AACTCCAAGACACAGGTGCCCGGCTGCTACTTATCTACCCTCGGCCCGCCCTCCG GCCTTGGATGTTGAATCATGAAGGCCGATAAACGGCCAACCTCGGGCCTTCTGCTAAGA GGACACTGACCCCTCCGAGGGGCCAAGAAACCATCCGGGGGATTGCCCTTTGAATCA AACCTCCCCCACCTGGGCTCGAGAGAAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_080416
Insert Size:	1900 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).
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:	<ol style="list-style-type: none">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:	<u>NM_080416.1</u> , <u>NP_536341.1</u>
RefSeq Size:	1669 bp
RefSeq ORF:	1380 bp
Locus ID:	5414
UniProt ID:	<u>O43236</u>
Cytogenetics:	17q22
Domains:	GTP_CDC

Gene Summary:

This gene is a member of the septin 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 highly expressed in brain and heart. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. One of the isoforms (known as ARTS) is distinct; it is localized to the mitochondria, and has a role in apoptosis and cancer. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (3) differs in the 5' UTR and coding region and initiates translation at an alternate start codon, compared to variant 7. It encodes isoform 3 (also known as PNUTL2b, hcdcrel2b) with a distinct N-terminus compared to isoform 5.