

## Product datasheet for **SC330525**

### SEPTIN4 (NM\_001256822) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_001256822) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNU TL2; SEP4; SEPT4
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330525 representing NM_001256822. Blue=Insert sequence Red=Cloning site Green=Tag(s)

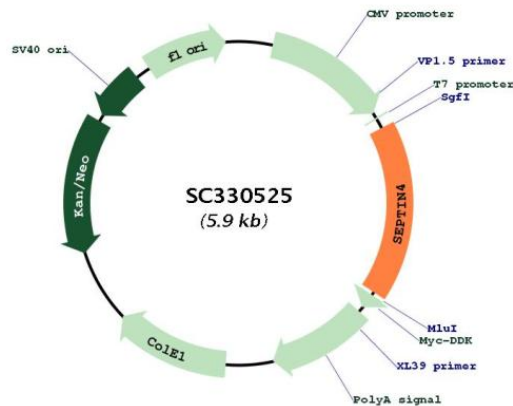
```
ATGGTGGCAGGAGAGTCTGGCCTGGGCAAATCCACACTTGTCAATAGCCTCTTCCTCACTGATCTGTAC
CGGGACCGGAACTTCTTGGTGTGAAGAGAGGATCATGCAAACGTGGAGATCACTAAGCATGCAGTG
GACATAGAAGAGAAGGGTGTGAGGCTGCGGCTCACCATTGTGGACACACCAGGTTTTGGGGATGCAGTC
AACACACAGAGTGCTGGAAGCCTGTGGCAGAATACATTGATCAGCAGTTTGAGCAGTATTTCCGAGAC
GAGAGTGGCCTGAACCGAAAGAACATCCAAGACAACAGGGTGCCTGCTGCTGTACTTCATCTCACCC
TTCGGCCATGGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAGCGGGTCAACATCGTG
CCTATCCTGGCTAAGGCAGACACTGACACCTCCCGAAGTGGACCACAAGAAACGAAAATCCGGGAG
GAGATTGAGCATTGGAATCAAGATCTATCAATTCAGACTGTGACTCTGATGAGGATGAGGACTTC
AAATTGCAGGACCAAGCCCTAAAGGAAAGCATCCCATTTGCAGTAATTGGCAGCAACACTGTAGTAGAG
GCCAGAGGGCGGCGAGTTCGGGGTGCAGTCTACCCCTGGGGCATCGTGGAAAGTGGAAAACCCAGGGCAC
TGCGACTTTGTGAAGCTGAGGACAATGCTGGTACGTACCCACATGCAGGACCTGAAGGATGTGACACGG
GAGACACATTATGAGAACTACCGGGCACAGTGCATCCAGAGCATGACCCGCCTGGTGGTGAAGGAACGG
AATCGCAACAACTGACTCGGAAAGTGGTACCGACTTCCCCATCCCTGCTGTCCCACCAGGGACAGAT
CCAGAACTGAGAAGCTTATCCGAGAGAAAGATGAGGAGCTGCGGCGGATGCAGGAGATGCTACACAAA
ATACAAAAACAGATGAAGGAGAACTATAA
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001256822

Insert Size: 996 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: 

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\\_001256822.1](#)

RefSeq Size: 1777 bp

RefSeq ORF: 996 bp

Locus ID: 5414

UniProt ID: [O43236](#)

Cytogenetics: 17q22

MW: 38.5 kDa

**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 (6) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 7. The encoded isoform (6) is shorter than isoform 5.