

## Product datasheet for **SC109592**

### SEPTIN4 (NM\_004574) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_004574) 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 sequence for NM\_004574 edited  
ATGGACCGTTCACTGGGATGGCAAGGGAATTCTGTCCCTGAGGACAGGACTGAAGCTGGG  
ATCAAGCGTTTCTGGAGGACACCACGGATGATGGAGAAGTTCGTAAGGAT  
TTCTCAGGAAATGCGAGCTGCCACCCACAGAGGCTAAGACCTGGGCATCCAGGCCCAA  
GTCCCGGAGCCAAGGCCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCAGACCC  
CCCTCGCGGCCAGTCTCTGACAACCAGCAGTACTTCTGTGCCCCAGCCCTCTCAGC  
CCATCTGCCAGGCCCGCAGCCATGGGGCAAGCTTGATCCCTATGATTCCTCTGAGGAT  
GACAAGGAGTATGTGGGCTTTGCAACCCTCCCAACCAAGTCCACCGAAAGTCCGTGAAG  
AAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGGGCAAATCCACTT  
GTCAATAGCCTTCTCCTACTGATCTGTACCGGGACCGGAAACTTCTTGGTGCTGAAGAG  
AGGATCATGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGGTGTG  
AGGCTGCGGCTCACCATTTGTGGACACACAGGTTTTGGGGATGCAGTCAACAACACAGAG  
TGCTGGAAGCCTGTGGCAGAATACATTGATCAGCAGTTTGAGCAGTATTTCCGAGACGAG  
AGTGGCCTGAACCGAAAGAACATCCAAGACAACAGGGTGCAGTGCCTGTACTTCATC  
TCACCTTCGGCCATGGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAG  
CGGGTCAACATCGTGCCTATCCTGGCTAAGGCAGACACACTGACACCTCCCGAAGTGGAC  
CACAAGAAACGCAAAATCCGGGAGGAGATTGAGCATTTTGAATCAAGATCTATCAATTC  
CCAGACTGTGACTCTGATGAGGATGAGGACTTCAAATTCAGGACCAAGCCCTAAAGGAA  
AGCATCCCATTTGCAGTAATTGGCAGCAACACTGTAGTAGAGGCCAGAGGGCGCGGAGTT  
CGGGTGCAGTCTACCCCTGGGGCATCGTGGAAGTGGAACCCAGGGCACTGCGACTTT  
GTGAAGCTGAGGACAATGCTGGTACGTACCCACATGCAGGACCTGAAGGATGTGACGCGG  
GAGACACATTATGAGAACTACCGGGCACAGTGCATCCAGAGCATGACCCGCTGGTGGT  
AAGGAACGGAATCGCAACAACTGACTCGGAAAGTGGTACCGACTTCCCATCCCTGCT  
GTCCACAGGGACAGATCCAGAACTGAGAAGCTTATCCGAGAGAAAGATGAGGAGCTG  
CGGCGGATGCAGGAGATGCTACAAAAATACAAAAACAGATGAAGGAGAATTTAA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004574 unedited  
 GGTTTCANCAATATGTAATACGACTCACTTATAGGGCGGCCGCGATTTCGGCACGAGGCTGT  
 TTCTGTGTGTGAGGAACCTTTGCCTGGGAGATAAAATTAGACCTAGAGCTTTCTGACAGGG  
 AGTCTGAAGCGTGGGACATGGACCGTTCCTGGGATGGCAAGGGAATTCTGTCCCTGAGG  
 ACAGGACTGAAGCTGGGATCAAGCGTTTCTGGAGGACACCACGGATGATGGAGAAGTGA  
 GCAAGTTCGTGAAGGATTTCTCAGGAAATGCGAGCTGCCACCCACAGAGGCTAAGACCT  
 GGGCATCCAGGCCCAAGTCCCGGAGCCAAGGCCCCAGGCCCGGACCTCTATGATGATG  
 ACCTGGAGTTCAGACCCCTCGCGGCCCAAGTCCCTGACAACACAGCAGTACTTCTGTG  
 CCCCAGCCCTCTCAGCCCATCTGCCAGGCCCGCAGCCCATGGGGCAAGCTTGATCCCT  
 ATGATTCTCTGAGGATGACAAGGAGTATGTGGGCTTTGCAACCCTCCCCAACCAAGTCC  
 ACCGAAAGTCCGTGAAGAAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCC  
 TGGGCAAATCCACACTTGTCAATAGCCTTCTCCTACTGATCTGTACCGGGACCGGAACT  
 TCCTTGGTGTGAAGAGAGGATCATGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACA  
 TANAAAAGAAGGGTGTGAGGCTGCGGCTCACCATTGTTNACACACAGTTTTTTGGGATG  
 CAGTCAACACCACAGAGTCTGGGAACCTGTGGCAGATACATTGATCAGCAGNTTGAGCA  
 GTATTTTCGAACCAAGTGGCCTTGACCGAAGAACATTCAAGACAACAGGTGCACCTGCTG  
 GCTGTACTCATTTACCTTTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004574 unedited  
 CTTTGGACCGGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTACAAATTTAT  
 TAAACTTTATTTCTCTGAGTCTCTGGGCAGTCAGCAGGGATGTAAGGCGAAGTGGCAGT  
 AGCTGAAGGGCCTGAGCAGAGCTGGTGTCTGGGAGGGCCGGCATGGACAGGAAGAAGAG  
 GAGGAGATTTAAATATCCAGGGCTGAAAGCCAGTTAATAGTTCTCCTTCATCTGTTTTTG  
 TATTTTGTGTAGCATCTCCTGCATCCGCCGAGCTCCTCATCTTTCTCTCGGATAAGCTT  
 CTCAGTTTCTGGATCTGTCCCTGGTGGGACAGCAGGGATGGGGAAGTCGGTACCCTTTT  
 CCGAGTCAGTTTGTGCGATTCCGTTTCCCTTACCACCAGGCGGGTATGCTCTGGATGCA  
 CTGTGCCCGGTAGTTCTCATAATGTGTCTCCCGCTCACATCCTTCCAGGTCTGCATGTG  
 GGTACGTACCAGCATTGTCTCAGCTTCACAAAGTCGAGTGCCTGGGTTTTTCCACTTC  
 CACGATGCCCCAGGGTAGAGTCGACCCGAACCTCGCCGCCCTTGGCCTCTACTACAGT  
 GTTGCTGCCAATTACTGCAAATGGGATGCTTTCTTTNAGGCTTGGTCTGCAATTTGAA  
 GTCCTCATCCTCATCAGAGTCACAGTCTGGGAATTGATAGATCTTGATTCCAAATGCTCA  
 ATCTCCTCCCGGATTTTTCGTTTTCTTGTGGTCCACTTCGGGAGGTGTAGTGTGTCTGCC  
 TTAACCAGATAGCACGATGTTGACCCGCTGATGCAGGNCCTTCATGAATTCACATTCCAT  
 GGCCGNAGCCATGGCCGANGGTTGANATGAANTCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004574

**Insert Size:**

1820 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\\_004574.2](#), [NP\\_004565.1](#)

**RefSeq Size:** 1767 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 5414

**UniProt ID:** [O43236](#)

**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 (1) differs in the 5' UTR and coding region and initiates translation at an alternate start codon, compared to variant 7. It encodes isoform 1 (also known as PNUTL2a, H5, SEPT4\_i1, bradeion beta, hcdcrel2a) which contains a distinct N-terminus and is shorter, compared to isoform 5.