

Product datasheet for **SC302955**

SEPTIN4 (NM_001038704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_001038704) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNUTL2; SEP4; SEPT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC302955 representing NM_001038704.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCAAGACAATAAACCTGGGGCCAAGGTAGCGGTTTCAGCACAGAGAGGGTCTGAGGTTACTACT
AACACATCCCCTCAGCAGGGACATGGGTACGTTCTTGCCTCAAGCCATCGAAGTGTGCAGTCTCCCTG
AACCCCTTCCACCGAAGATCAGAAGCTGCACATCCCACCACTCCCATTGGGCATCAGACTACCCTCGA
TCTGTCTCCCTCCAGTCAGGACCTGGACACTATGCAGTACCCACTCCTCGGGGAACCGAGACTGGACCA
AGAACAGAATCATCCCGCATTCTCTCCCATCTAAAGAGCCAGAAGACTCAGACACTGGCTTCCCAT
GCTTCAAGCAGACAATGGAAAGTTAGTCCACCCAGAGAGGAAGCAGCAGCAAGAGGCAGTGAGAGCAAG
TCAGGGCGCGAGGTGGCCATCATGCTTCAATCCCAGATGCCAAATCTACTCATCAGTTGAGTTTT
CAAGACCAGAAGAATAACTTACAATCACAATCTTAGAAGATGACCCACCATCCAAGTCCAGAACCCC
CAAGGAGTCAGAGTTCCCGTAGGATTTGTCTTACCCAAAGGATGAAGCAGTACAACTGAGCCCATC
CAAAGAATTACGACTACTAGTGAGATCAGATCTCCAAGGAGTCCCTCTCTCTAGAGCACGGAAGCAGC
TGTGTCTCTGCAGACTATCAGACAGCCCAGAGAAGGGTCCCTGTAGAAGAATCAGAAACAGGTCCTTAC
GGTCCAATTCTTCAAACCCCAAGGCCTTGTATAGGAATATGAACTTGGACTCATTGCTCAAACCTCTCT
GTCCTTAAAGATTCTGATGGTGTACACCGAGTTTCTGCACGGGTAGACCTGAGTCTCTTCATAAGTAT
TCTGCCTATCCTGAAACCAAGCCCTCCGCAAAGGTCTTAGTATCATCACAGGTGGAGTCCAACGTGAGG
ACCCCAATCCGAGGAAACAGCGAGGTTGGCCGACGGGTCAACATCTCCCAGGGGTACAGTCAGTAGAG
CCAACCTCACCATGTGACAGTTCATCAGTGTCTGAGGGTCCCACAAGTCATCCATGTTTGTACTCCA
GAGCCCCTATAAACAGCAAACCCAAAAACCCCAAGAACTTACTACATGTCCCAAGGACCTACACCC
AGGTATCCAGAACTCTCGAAAAGCCCTCCATCCATGCAGAAGTGAAGTGAACCCCTAGGCCCTTGCTC
CTCGGTCTTACCTAGGTACGGACCTGACTCCTCATGGTGGCCCTTGCTGAATCCTGAAGTTGAAACA
CCCCAAAGCCAGCTGACAAACCCGATTTTGTAGCCTAAGTGTCTCTCTCCCTAGATCTTTTATTGTCC
GGTTTTAAATAGACTCTAGCCCTTCTGTGAGGATCTGAAGTTCAGAGAGAGAAGGCAAGCCTATCA
CCACCATCACCAACCAAGGATTTCCAAGTTGGGCACCACTGAGTGAAGTGCCACAGACCCCAAGCAC
ACCTGCAAACAACCCATTCAAAGGTTTACTGCTTTCTCTCTGGATGTCTCTGAGGAAATGTACAATCGT
GTCATCTGGTGGTAAAAGGTCTGTGCTTTTCCCTCCTATGGGCCACTGTGGGAGCTTGGGGGATGGG
AGGACAGGTGAGGAGTGGCATCTATGTATCTACAGAGCTGGGTGCTTTAGGAGATAA
ACGGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001038704
- Insert Size:** 1713 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001038704.2](#)

RefSeq Size: 2127 bp

RefSeq ORF: 1713 bp

Locus ID: 5414

UniProt ID: [O43236](#)

Cytogenetics: 17q22

MW: 63.1 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]