

## Product datasheet for **RC234278**

### SEPTIN4 (NM\_001256782) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_001256782) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNU TL2; SEP4; SEPT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234278 representing NM\_001256782  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGAGCTCTCCAGCCCTGTTCAGCAGCAGAGCTGCTCCCCAGAAGCCAAGAAAAGAAGCTCCCAAG  
 CAGCTGGGCTGCTGGTCTTCTCTGACTCTCTGGAGATCAAGCGTTTCTTGAGGACACCACGGATGATGG  
 AGAACTGAGCAAGTTCGTAAGGATTTCTCAGGAAATGCGAGCTGCCACCCACCAGAGGCTAAGACCTGG  
 GCATCCAGGCCCAAGTCCCGGAGCCAAGGCCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCA  
 GACCCCTCGCGGCCAGTCTCTGACAACCAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCATC  
 TGCCAGGCCCGCAGCCATGGGCAAGCTTGATCCCTATGATTCCTCTGAGGATGACAAGGAGTATGTG  
 GGCTTTGCAACCTCCCAACCAAGTCCACCGAAAGTCCGTGAAGAAAGGCTTTGACTTTACCTCATGG  
 TGGCAGGAGAGTCTGGCCTGGGCAAATCCACACTTGCAATAGCCTCTTCTCACTGATCTGACCGGA  
 CCGGAAACTTCTTGGTGTGAAGAGAGGATCATGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATA  
 GAAGAGAAGGGTGTGAGGCTGCGGCTCACCATTGTGGACACACAGGTTTTGGGGATGCAGTCAACAACA  
 CAGAGTGTGGAAGCCTGTGGCAGAATACATTGATCAGCAGTTTGAGCAGTATTTCCGAGACGAGAGTGG  
 CCTGAACCGAAAGAACATCCAAGACAACAGGGTGCAGTCTGCTGACTTCACTCACCCTTCGGCCAT  
 GGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAGCGGGTCAACATCGTGCCATCCTGG  
 CTAAGGCAGACACTGACACCTCCCGAAGTGGACCACAAGAAACGAAAATCCGGGAGGAGATTGAGCA  
 TTTTGGAAATCAAGATCTATCAATCCCAGACTGTGACTCTGATGAGGATGAGGACTTCAAATTCAGGAC  
 CAAGCCCTAAAGGAAAGCATCCCATTGCGAGTAAATGGCAGCAACACTGTAGTAGAGGCCAGAGGGCGGC  
 GAGTTCCGGGTCGACTTACCCCTGGGGCATCGTGGAAAGTGGAAAACCCAGGGCACTGCGACTTTGTGAA  
 GCTGAGGACAATGCTGGTACGTACCCACATGCAGGACCTGAAGGATGTGACACGGGAGACACATTATGAG  
 AACTACCGGGCACAGTGCATCCAGAGCATGACCCGCTGGTGGTGAAGGAACGGAATCGCAACAACTGA  
 CTCGGGAAAGTGGTACCGACTTCCCATCCCTGCTGTCCACCCAGGGACAGATCCAGAACTGAGAAGCT  
 TATCCGAGAGAAAGATGAGGAGCTGCGCGGATGCAGGAGATGCTACACAAAATACAAAACAGATGAAG  
 GAGAACTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234278 representing NM\_001256782  
 Red=Cloning site Green=Tags(s)

MRSSPALFSSRAAPQKPRKEGSQAAGLLVFSDSL EIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTW  
 ASRPQVPEPRPQAPDLYDDLEFRPPSRPQSSDNQQYFCAPAPLSPSARPRSPWGKLDPYDSSDDKEYV  
 GFATLPNQVHRKSVKKGFDFTLMVAGESL GKSTLVNSLFLTDLYRDRKLLGAEERIMQTVEITKHAVDI  
 EEKGVRLRLTIVDTPGFGDAVNTECWKPVAEYIDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGH  
 GLRPLDVEFMKALHQRVNI VPI LAKADTLTPPEVDHKKRKIREEIEHFGIKIYQFPDCDSDEDEDFKLQD  
 QALKESIPFAVIGSNTVVEARGRRVRGRLYPWGI VEVENPGHCD FVKLR TMLVRTHMQDLKDV TRETHYE  
 NYRAQCIQSMTRLVVKERNRNL TRESGTFPIPAVPPGDPETEKLIREKDEELRRMQEMLHKIQQMK  
 ENY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001256782

**ORF Size:** 1479 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001256782.1](#), [NP\\_001243711.1](#)

**RefSeq Size:** 1803 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 5414

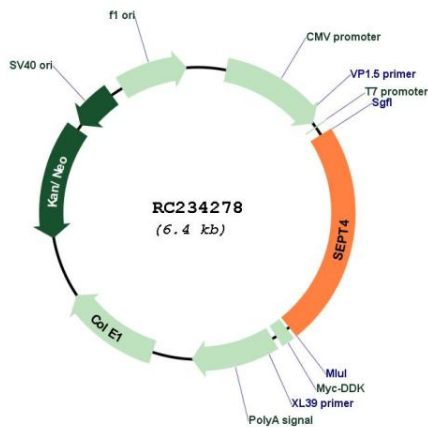
**UniProt ID:** [O43236](#)

**Cytogenetics:** 17q22

**MW:** 57.1 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]

**Product images:**



Circular map for RC234278