

## Product datasheet for **RC215054**

### SEPTIN4 (NM\_080415) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_080415) 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)
ORF Nucleotide Sequence:	>RC215054 representing NM_080415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATCAAGCGTTTCCTGGAGGACACCACGGATGATGGAGAACTGAGCAAGTTCGTGAAGGATTTCTCAG  
GAAATGCGAGCTGCCACCCACCAGAGGCTAAGACCTGGGCATCCAGGCCCAAGTCCGGAGCCAAGGCC  
CCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCAGACCCCTCGCGGCCAGTCTCTGACAAC  
CAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCCATCTGCCAGGCCCGCAGCCCATGGGGCAAGCTTG  
ATCCCTATGATTCCTCTGAGGATGACAAGGAGTATGTGGGCTTTGCAACCCTCCCAACCAAGTCCACCG  
AAAGTCCGTGAAGAAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGGGCAATCCACA  
CTTGTC AATAGCCTTCTCCTCACTGATCTGTACCGGGACCGGAACTTCTTGGTGTGAAGAGAGGATCA  
TGCAAACGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGGTGTGAGGCTGCGGCTCACCAT  
TGTGGACACACCAGGTTTTGGGGATGCAGTCAACAACACAGAGTGTGGAAGCCTGTGGCAGAATACATT  
GATCAGCAGTTTGAGCAGTATTTCCGAGACGAGAGTGGCCTGAACCGAAAGAACATCCAAGACAACAGGG  
TGCACTGCTGCCTGTACTTTATCTACCCTTCGGCCATGGGTATGGTCCAAGCCTGAGGCTCCTGGCACC  
ACCGGGTGTGTCAAGGGAACAGGCCAAGAGCACCAGGGGCAGGGCTGCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215054 representing NM\_080415  
Red=Cloning site Green=Tags(s)

MIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWSARPQVPEPRPQAPDLYDDDLFRPPSRPQSSDN  
 QQYFCAPAPLSPSARPRSPWGKLDPYDSSEDDKEYVGFATLPNQVHRKSVKKGDFDFLMVAGESGLGKST  
 LVNSLFLTDLYRDRKLLGAEERIMQTVETKHAVDIEEKGVRLRLTIVDTPGFGDAVNNTCEWKPVAEYI  
 DQQFEQYFRDESLNRKNIQDNRVHCCLYFISPFHGYPGSLRLLAPPGAVKGTGQEHQGGCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6098\\_b06.zip](https://cdn.origene.com/chromatograms/mk6098_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080415

**ORF Size:** 822 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\\_080415.3](#)

**RefSeq Size:** 1911 bp

**RefSeq ORF:** 825 bp

**Locus ID:** 5414

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

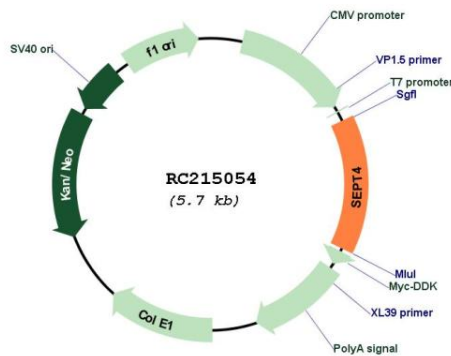
**Cytogenetics:** 17q22

**Domains:** GTP\_CDC

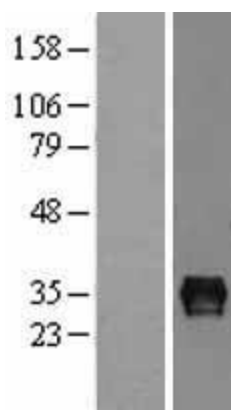
**MW:** 30.6 kDa

**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]

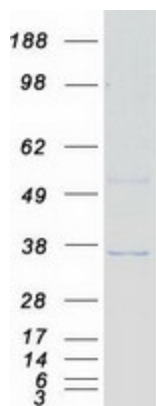
### Product images:



Circular map for RC215054



Western blot validation of overexpression lysate (Cat# [LY403307]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215054 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEPTIN4 protein (Cat# [TP315054]). The protein was produced from HEK293T cells transfected with SEPTIN4 cDNA clone (Cat# RC215054) using MegaTran 2.0 (Cat# [TT210002]).