

Product datasheet for **RG215054**

SEPTIN4 (NM_080415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_080415) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNU TL2; SEP4; SEPT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215054 representing NM_080415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCAAGCGTTTCCTGGAGGACACCACGGATGATGGAGAACTGAGCAAGTTCGTGAAGGATTTCTCAG
GAAATGCGAGCTGCCACCCACCAGAGGCTAAGACCTGGGCATCCAGGCCCAAGTCCCGGAGCCAAGGCC
CCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCAGACCCCTCGCGGCCAGTCTCTGACAAC
CAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCCATCTGCCAGGCCCGCAGCCCATGGGGCAAGCTTG
ATCCCTATGATTCCTCTGAGGATGACAAGGAGTATGTGGGCTTTGCAACCCTCCCAACCAAGTCCACCG
AAAGTCCGTGAAGAAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGGGCAATCCACA
CTTGTC AATAGCCTTCTCCTCACTGATCTGTACCGGGACCGGAACTTCTTGGTGTGAAGAGAGGATCA
TGCAAACGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGGTGTGAGGCTGCGGCTCACCAT
TGTGGACACACCAGGTTTTGGGGATGCAGTCAACAACACAGAGTCTGGAAGCCTGTGGCAGAATACATT
GATCAGCAGTTTGGAGCAGTATTTCCGAGACGAGAGTGGCCTGAACCGAAAGAACATCCAAGACAACAGGG
TGCACTGCTGCCTGTACTTTATCTACCCTTCGGCCATGGGTATGGTCCAAGCCTGAGGCTCCTGGCACC
ACCGGGTGTGTCAAGGGAACAGGCCAAGAGCACCAGGGGCAGGGCTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215054 representing NM_080415
 Red=Cloning site Green=Tags(s)

MIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWSARPQVPEPRPQAPDLYDDDLFRPPSRPQSSDN
 QQYFCAPAPLSPSARPRSPWGKLDPYDSSDDKEYVGFATLPNQVHRKSVKKGDFDFLMVAGESGLGKST
 LVNSLFLTDLYRDRKLLGAEERIMQTVETKHAVDIEEKGVRLRLTIVDTPGFGDAVNNTCEWKPVAEYI
 DQQFEQYFRDESLNRKNIQDNRVHCCLYFISPFHGYPGLRLLAPPGAVKGTGQEHQGGCH

TRTRPLE - GFP Tag - V

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_080415.1](#), [NP_536340.1](#)

RefSeq Size: 1911 bp

RefSeq ORF: 825 bp

Locus ID: 5414

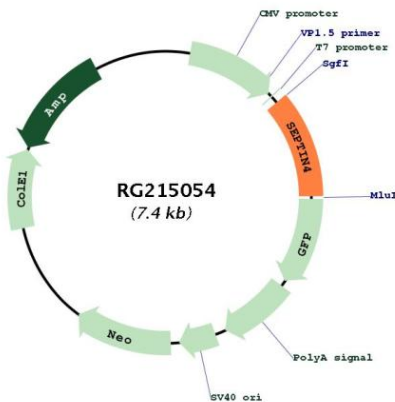
UniProt ID: [O43236](#)

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]

Product images:



Circular map for RG215054