

Product datasheet for **RG205339**

SEPTIN4 (NM_080416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_080416) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNUTL2; SEP4; SEPT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205339 representing NM_080416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCAAGCGTTTCTGGAGGACACCACGGATGATGGAGAAGTTCGTGAAGGATTTCTCAG
 GAAATGCGAGCTGCCACCCACCAGAGGCTAAGACTGGGCATCCAGGCCCAAGTCCCGGAGCCAAGGCC
 CCAGGCCCCGGACCTCTATGATGATGACCTGGAGTTCAGACCCCTCGCGGCCCCAGTCTCTGACAAC
 CAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCCATCTGCCAGGCCCCGAGCCCATGGGGCAAGCTTG
 ATCCCTATGATTCCTCTGAGGATGACAAGGAGTATGTGGGCTTTGCAACCTCCCAACCAAGTCCACCG
 AAAGTCCGTGAAGAAAGGCTTTGACTTTACCCTCATGGTGGCAGGAGAGTCTGGCCTGGGCAAATCCACA
 CTTGTCAATAGCCTTCTCCTCACTGATCTGTACCGGGACCGAAACTTCTTGGTGTGAAGAGAGGATCA
 TGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATAGAAGAGAAGGGTGTGAGGCTCGCGCTCACCAT
 TGTGGACACACAGGTTTTGGGGATGCAGTCAACAACACAGAGTCTGGAAGCCTGTGGCAGAATACATT
 GATCAGCAGTTTGTAGCAGTATTTCCGAGACGAGAGTGGCCTGAACCGAAAGAATCCAAGACAACAGGG
 TGCACTGTGCCTGTACTTCATCTCACCATTCCGCCATGGGCTCCGGCCATTGGATGTTGAATTCATGAA
 GGCCCTGCATCAGCGGTCAACATCGTGCCATCCTGGCTAAGGCAGACACACTGACACCTCCCGAAGTG
 GACCACAAGAAACGAAAATCCGGGAGGAGATTGAGCATTTTGAATCAAGATCTATCAATCCCAGACT
 GTGACTCTGATGAGGATGAGGACTTCAAATTCAGGACCAAGCCCTAAAGGAAAGCATCCCATTTGCAGT
 AATTGGCAGCAACTGTAGTAGAGGCCAGAGGGCGCGAGTTTCGGGGTCTGACTTACCCCTGGGGCATC
 GTGGAAGTGGAAAACCCAGGGCACTGCGATTTTGTGAAGCTGAGGACAATGCTGGTACGTACCCACATGC
 AGGACCTGAAGGATGTGACGCGGGAGACACATTATGAGAACTACCGGGCACAGTGCATCCAGAGCATGAC
 CCGCCTGGTGGTGAAGGAACGGAATCGCAACAACTGACTCGGGAAAGTGTACCGACTTCCCATCCCT
 GCTGTCCACAGGGACAGATCCAGAACTGAGAAGCTTATCCGAGAGAAAGATGAGGAGCTGCGCGCGGA
 TGCAGGAGATGCTACAAAAATACAAAAACAGATGAAGGAGAAGTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205339 representing NM_080416
 Red=Cloning site Green=Tags(s)

MIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWASRPQVPEPRPQAPDLYDDLEFRPPSRPQSSDN
 QQYFCAPAPLSPSARPRSPWGKLDPYDSEDDKEYVGFATLPNQVHRKSVKKGDFDTLMVAGESGLGKST
 LVNSLFLTDLYRDRKLLGAEERIMQTVETKHAVDIEEKGVRLRLTIVDTPGFGDAVNNTECWKPVAEYI
 DQQFEQYFRDESLNRKNIQDNRVHCLYFISPFHGHLRPLDVEFMKALHQRVNIVIPILAKADTLTPPEV
 DHKKRKIREEIEHFGIKIYQFPDCSDEDEDFKLQDQALKESIPFAVIGSNTVVEARGRRVRGRLYPWGI
 VEVENPGHCDFVKLRTMLVRTHMQDLKDVTRETHYENYRAQCIQSMTRLVVKERNRNLKLTRESGTDFFIP
 AVPPGTDPETEKLIREKDEELRRMQEMLHKKIQMKENY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_080416

ORF Size: 1377 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_080416.1](#), [NP_536341.1](#)

RefSeq Size: 1669 bp

RefSeq ORF: 1380 bp

Locus ID: 5414

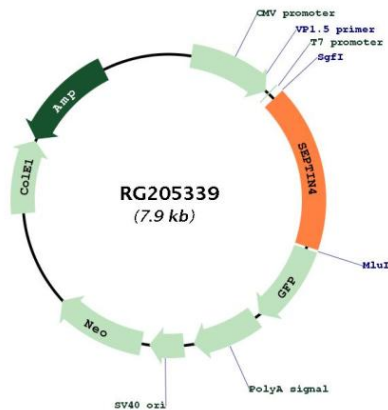
UniProt ID: [O43236](#)

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 RG205339