

Product datasheet for **RG234278**

SEPTIN4 (NM_001256782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_001256782) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234278 representing NM_001256782
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGAGCTCTCCAGCCCTGTTACGACGACAGAGCTGCTCCCCAGAAGCCAAGAAAAGAAGCTCCCAAG
 CAGCTGGGCTGCTGGTCTTCTCTGACTCTCTGGAGATCAAGCGTTTCTTGAGGACACCACGGATGATGG
 AGAACTGAGCAAGTTCGTAAGGATTTCTCAGGAAATGCGAGCTGCCACCCACCAGAGGCTAAGACCTGG
 GCATCCAGGCCCAAGTCCCGGAGCCAAGGCCAGGCCCGGACCTCTATGATGATGACCTGGAGTTCA
 GACCCCTCGCGGCCAGTCTCTGACAACCAGCAGTACTTCTGTGCCCCAGCCCTCTCAGCCATC
 TGCCAGGCCCGCAGCCATGGGCAAGCTTGATCCCTATGATTCCTCTGAGGATGACAAGGAGTATGTG
 GGCTTTGCAACCTCCCAACCAAGTCCACCGAAAGTCCGTGAAGAAAGGCTTTGACTTTACCTCATGG
 TGGCAGGAGAGTCTGGCTGGGCAAATCCACACTTGTCAATAGCCTCTTCTCACTGATCTGTACCGGGA
 CCGGAAACTTCTTGGTGTGAAGAGAGGATCATGCAAAGTGTGGAGATCACTAAGCATGCAGTGGACATA
 GAAGAGAAGGGTGTGAGGCTGCGGCTCACCATTGTGGACACACCAGGTTTTGGGGATGCAGTCAACAACA
 CAGAGTGTGGAAGCCTGTGGCAGAATACATTGATCAGCAGTTTGAGCAGTATTTCCGAGACGAGAGTGG
 CCTGAACCGAAAGAACATCCAAGACAACAGGGTGCAGTCTGCCTGACTTCATCTCACCTTCGGCCAT
 GGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAGCGGGTCAACATCGTGCCATCCTGG
 CTAAGGCAGACACTGACACCTCCCGAAGTGGACCACAAGAAACGAAAATCCGGGAGGAGATTGAGCA
 TTTTGGAAATCAAGATCTATCAATCCCAGACTGTGACTCTGATGAGGATGAGGACTTCAAATTCAGGAC
 CAAGCCCTAAAGGAAAGCATCCCATTGCGAGTAAATGGCAGCAACACTGTAGTAGAGGCCAGAGGGCGGC
 GAGTTCGGGGTGCAGCTTACCCCTGGGCGCATCGTGGAGTGGAAAACCCAGGGCACTGCGACTTTGTGAA
 GCTGAGGACAATGCTGGTACGTACCCACATGCAGGACCTGAAGGATGTGACACGGGAGACATTATGAG
 AACTACCGGGCACAGTGCATCCAGAGCATGACCCGCTGGTGGTGAAGGAACGGAATCGAACAACTGA
 CTCGGGAAAGTGGTACCGACTTCCCATCCCTGCTGTCCACCCAGGGACAGATCCAGAACTGAGAAGCT
 TATCCGAGAGAAAGATGAGGAGCTGCGGCGGATGCAGGAGATGCTACACAAAATACAAAACAGATGAAG
 GAGAACTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234278 representing NM_001256782
 Red=Cloning site Green=Tags(s)

MRSSPALFSSRAAPQKPRKEGSQAAGLLVFSDSLKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTW
 ASRPQVPEPRPQAPDL YDDLEFRPPSRPQSSDNQYFCAPAPLSPSARPRSPWGKLDPYDSEDDKEYV
 GFATLPNQVHRKSVKGFDFTLMVAGESL GKSTLVNSLFL TDL YRDRKLLGAEERIMQTVEITKHAVDI
 EEKGVRLRLTIVDTPGFGDAVNTECWKPVAEYIDQQFEQYFRDESGLNRNKIQDNRVHCLLYFISPF GH
 GLRPLDVEFMKALHQRVNI VPI LAKADTLTPPEVDHKKRKIREEIEHFGIKIYQFPDCDSDEDEDFKLQD
 QALKESIPFAVIGSNTVVEARGRRVRGRLYPWGI VEVENPGHCD FVKLRTMLVRTHMQDLKDVTRETHYE
 NYRAQCIQSMTRLVVKERNRNL TRESGDFPIPAVPPGTDPETEKLIREKDEELRRMQEMLHKIQKQMK
 ENY

TRTRPLE - GFP Tag - V

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

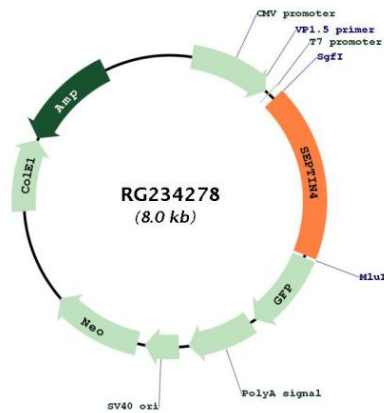
Locus ID: 5414

UniProt ID: [O43236](#)

Cytogenetics: 17q22

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 RG234278