

Product datasheet for RC215506

CENTG3 (AGAP3) (NM_001042535) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENTG3 (AGAP3) (NM_001042535) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENTG3
Synonyms:	AGAP-3; CENTG3; cnt-g3; CRAG; MRIP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215506 representing NM_001042535 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCAGGCGGGGGGGGCGAGCCCGCAGCAGCAGCAGCAGCCTGGCGGCTCCGGGGGGCGGG
GCGCTGCCGCGCAGCAGCTCGTCTGCGGGGGCAGTTCGCGGGCGGGGGCCGGGGGGGGGGCGGG
CGGCCCTCGCAGCAGCTGGCCGGGGGGCCCCCAGCAGTTCGCGCTCTCCAATCCGCGGCCATCCGG
GCCGAGATCCAGCGCTTCGAGTCCGTGCATCCCAATATCTACGCCATCTACGACCTGATCGAGCGCATCG
AGGATTTGGCGCTGCAGAACAGATCCGGGAGCAGTCATCTCCATCGAGGACTCGTTTGTGAACAGCCA
GGAGTGGACGCTGAGCCGCTCCGTACCGGAGCTTAAAGTGGGCATAGTGGGAACCTGTCTAGCGGGAAG
TCAGCCCTGGTGCACCGTATCTGACGGGGACCTATGTCCAGGAGGAGTCCCCTGAAGGGGGCGGTTTA
AGAAGGAGATTGTGGTGGATGGCCAGAGTTACCTGCTGCTGATCCGAGATGAAGGAGGCCCCCTGAGCT
CCAGTTTGCTGCCTGGGTGGATGCAGTGGTGTGGTTCAGCCTGGAGGATGAAATCAGTTTCCAGACG
GTGTAACTACTTCTGCGTCTCTGCAGCTTCCGCAACGCCAGCGAGGTGCCATGGTGTCTGTGGCA
CGCAGGATGCCATCAGCGCTGCGAATCCCCGGTTATCGACGACAGCAGAGCCCGCAAGCTCTCCACAGA
TCTGAAGCGGTGCACCTACTATGAGACGTGCGCGACCTACGGGCTCAATGTGGAGCGTGTCTCCAGGAC
GTGGCCCCAGAAGGTAGTGGCCTTGGAAAGAAGCAGCAACTGGCCATCGGGCCCTGCAAGTCACTGCCCA
ACTCGCCAGCCACTCGGCCGTGTCGCGCCCTCCATCCCGGCCGTGCACATCAACCAGGCCAAGTGG
CGGCGGACAGCGCTTCAGCGACTACTCGTCTCAGTCCCCCTCCACCCCCAGCATCAGCCAGCGGGAGCTG
CGCATCGAGACCATCGTGCCTCCTCCACCCCCACCCCATCCGAAAGCAGTCCAAGCGGCGCTCCAACA
TCTTCAGGATATGTGCCACTGTTTCCAACCTTTTCATCAACAAAAAGGCCTTTCCAACCTCTTCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215506 representing NM_001042535
 Red=Cloning site Green=Tags(s)

MNFQAGGGQSPQQQSLAAPGGGAAAQQLVCGGQFGGAGPGAGGGGSPQQLAGGPPQQFALSNSAAIR
 AEIQRFESVHPNIYAIYDLIERIEDLALQNQIREHVISIEDSFVNSQEWTLRSVPPELVGIVGNLSSGK
 SALVHRYLTGTYYQEESPEGGRFKKEIVVDGQSYLLLRDEGGPELQFAAWVDVAVFVFSLEDEISFQT
 VVNYFLRLCSFRNASEVPMVLVGTQDAISAANPRVIDSRARKLSTDLKRCTYYETCATYGLNVERVFQD
 VAQKVVALRKKQQLAIGPCKSLPNSPSHSAVSAASIPAVHINQATNGGSAFSDYSSVSTPSTPISQREL
 RIETIAASSTPTPIRKQSKRRSNIFTICATVSNFSSTKRPFQLLPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001042535

ORF Size: 1188 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_001042535.4](#)

RefSeq Size: 2063 bp

RefSeq ORF: 1191 bp

Locus ID: 116988

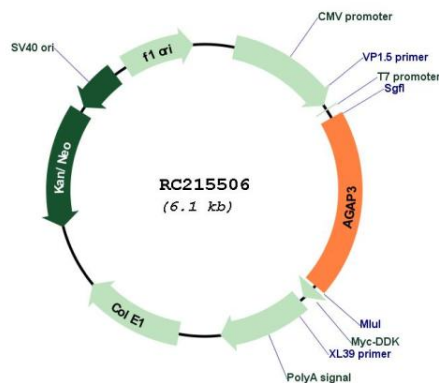
UniProt ID: [Q96P47](#)

Cytogenetics: 7q36.1

MW: 42.3 kDa

Gene Summary: This gene encodes an essential component of the N-methyl-D-aspartate (NMDA) receptor signaling complex which mediates long-term potentiation in synapses by linking activation of NMDA receptor to alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor trafficking. The encoded protein contains an N-terminal GTPase-like domain, a pleckstrin homology domain, an ArfGAP domain and several C-terminal ankryn repeat domains. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC215506