

Product datasheet for **RG215506**

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:	TurboGFP
Symbol:	AGAP3
Synonyms:	AGAP-3; CENTG3; cnt-g3; CRAG; MRIP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215506 representing NM_001042535 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCAGGCGGGGGGGGCGAGCCCGCAGCAGCAGCAGCAGCCTGGCGGCTCCGGGGGGCGGG
GCGCTGCCGCGCAGCAGCTCGTCTGCGGGGGCAGTTCGCGGGCGGGGGCCCGGGGGCGGGGGCGGG
CGGCCCTCGCAGCAGCTGGCCGGGGGGCCCCCAGCAGTTCGCGCTCTCCAATCCGCGGCCATCCGG
GCCGAGATCCAGCGCTTCGAGTCCGTGCATCCCAATATCTACGCCATCTACGACCTGATCGAGCGCATCG
AGGATTTGGCGCTGCAGAACAGATCCGGGAGCAGTCATCTCCATCGAGGACTCGTTTGTGAACAGCCA
GGAGTGGACGCTGAGCCGCTCCGTACCGGAGCTTAAAGTGGGCATAGTGGGAACCTGTCTAGCGGGAAG
TCAGCCCTGGTGCACCGTATCTGACGGGGACCTATGTCCAGGAGGAGTCCCCTGAAGGGGGCGGTTTA
AGAAGGAGATTGTGGTGGATGGCCAGAGTTACCTGCTGCTGATCCGAGATGAAGGAGGCCCCCTGAGCT
CCAGTTTGCTGCCTGGGTGGATGCAGTGGTGTGGTTCAGCCTGGAGGATGAAATCAGTTTCCAGACG
GTGTAACTACTTCTGCGTCTCTGCAGCTCCGCAACGCCAGCGAGGTGCCATGGTGTCTGTGGCA
CGCAGGATGCCATCAGCGCTGCGAATCCCCGGTTATCGACGACAGCAGAGCCCGCAAGCTCTCCACAGA
TCTGAAGCGGTGCACCTACTATGAGACGTGCGCGACCTACGGGCTCAATGTGGAGCGTGTCTCCAGGAC
GTGGCCCCAGAAGGTAGTGGCCTTGGAAAGAAGCAGCAACTGGCCATCGGGCCCTGCAAGTCACTGCCCA
ACTCGCCAGCCACTCGGCCGTGTCGCGCCCTCCATCCCGCCGTGCACATCAACCAGGCCAAGTGG
CGGCGGACAGCGCTTCAGCGACTACTCGTCTCAGTCCCCCTCCACCCCGCAGCATCAGCCAGCGGGAGCTG
CGCATCGAGACCATCGCTGCCTCCTCCACCCCGCAGCCATCCGAAAGCAGTCCAAGCGGCGCTCCAACA
TCTTCAGGATATGTGCCACTGTTTCCAACCTTTTCATCAACAAAAAGGCCTTTCCAACCTCTTCCAAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215506 representing NM_001042535
 Red=Cloning site Green=Tags(s)

MNFQAGGGQSPQQQSLAAPGGGGAAAQQLVCGGQFGGAGPGAGGGGSPQQLAGGPPQQFALSNSAAIR
 AEIQRFEVHPNIYAIYDLIERIEDLALQNQIREHVISIEDSFVNSQEWLRSRVPPELKVGI VGNLSSGK
 SALVHRYLTGTYYQEESPEGGRFKKEIVVDGQSYLLLRDEGGPELQFAAWVDVAVFVFSLEDEISFQT
 VYNYFLRLCSFRNASEVPMVLVGTQDAISAANPRVIDDSRARKLSTDLKRCITYETCATYGLNVERVFQD
 VAQKVVALRKKQLAIGPCKSLPNSPSHSAVSAASIPAVHINQATNGGSAFSDYSSVSTPSTPISQREL
 RIETIAASSTPTPIRKQSKRRSNIFTICATVSNFSSTKRPFQLLPN

TRTRPLE - GFP Tag - V

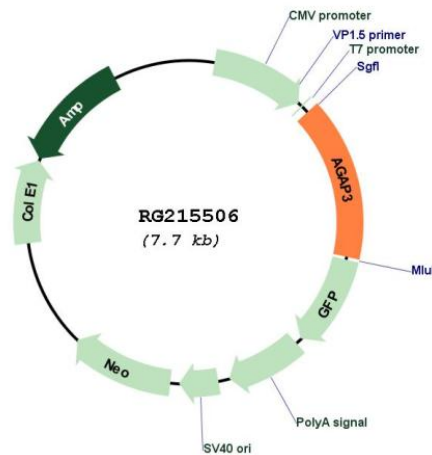
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]