

## Product datasheet for **SC336867**

### **CENTG3 (AGAP3) (NM\_001281300) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CENTG3 (AGAP3) (NM_001281300) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGAP3
Synonyms:	AGAP-3; CENTG3; cnt-g3; CRAG; MRIP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

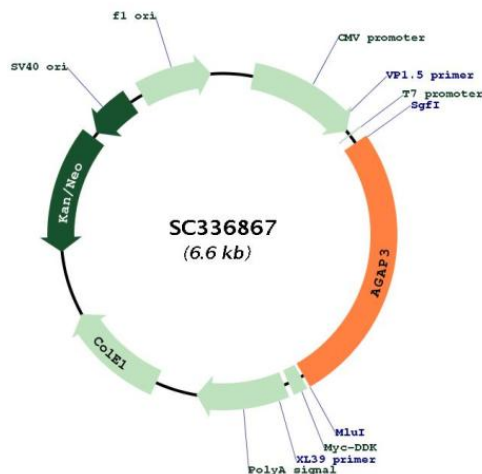


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Fully Sequenced ORF: >SC336867 representing NM\_001281300.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGTCTGTGGGCACGCAGGATGCCATCAGCGCTGCGAATCCCCGGGTTATCGACGACAGCAGAGCC
CGCAAGCTCTCCACAGATCTGAAGCGGTGCACCTACTATGAGACGTGCGCGACCTACGGGCTCAATGTG
GAGCGTGTCTCCAGGAGGTGGCCAGAAAGGTAGTGGCCTTGCGAAAGAAGCAGCAACTGGCCATCGGG
CCCTGCAAGTCACTGCCCAACTCGCCAGCCACTCGGCCGTGTCCGCGCCTCCATCCCGCCGTGCAC
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AGCATCAGCCAGCGGGAGCTGCGCATCGAGACCATCGTGCCTCTCCACCCCCACACCCATCCGAAAG
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GCCGAGTGAAGGTGGACAGCATCGGGAGCGGCCGCCATCCCATCAAGCAGGGGATCCTGCTAAAG
CGGAGCGGCAAGTCCCTGAACAAGGAGTGAAGAAGAAGTATGTGACGCTCTGTGACAACGGGCTGCTC
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GCCAACGGGCTGTCCGTGGAGCGGAGTAACACACAGCTGGGTGGGGGCACAGAGGAGAGGATCGTTT
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GAGACCTATGGGACGGGACGGGCGGACGGCTCTACATCTCTCCAGTGCATGGCCAACGTTGTCTTC
ACGCAGCTGCTCATCTGGTACGGGTGGACGTGAGGAGCCGGGACGCCCGGGGCTGACTCCACTGGCA
TATGCTCGCCGGGCGGACAGCAGGAGTGTGCAGACATCTTGATCCAGCATGGCTGCCCTGGGGAGGGC
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AGTCCTAGCCTCCTATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001281300

**Insert Size:** 1743 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001281300.1](#)

**RefSeq Size:** 2783 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 116988

**UniProt ID:** [Q96P47](#)

**Cytogenetics:** 7q36.1

**MW:** 62.8 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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks two alternate exons in the 3' coding region, and initiates translation from a downstream start codon, compared to variant 1. The encoded isoform (c) is shorter than isoform a.