

## Product datasheet for **RG205382**

### Chromogranin C (SCG2) (NM\_003469) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chromogranin C (SCG2) (NM_003469) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chromogranin C
Synonyms:	CHGC; EM66; SgII; SN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205382 representing NM\_003469  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAAGCAAAGACCCACTGGCTTGGAGCAGCCCTGTCTCTTATCCCTTTAATTTTCCTCATCTCTG  
 GGGCTGAAGCAGCTTCATTTTCAGAGAAACCAGCTGCTTCAGAAAGAACCAGACCTCAGGTTGGAAAATGT  
 CCAAAAAGTTTCCAGTCCTGAAATGATCAGGGCTTTGGAGTACATAGAAAACCTCCGACAACAAGCTCAT  
 AAGGAAGAAAGCAGCCAGATTATAATCCCTACCAAGGTGTCTGTCCCCCTCAGCAAAAAGAAAATG  
 GCGATGAAAGCCACTTGCCCGAGAGGGATTCACTGAGTGAAGAAGACTGGATGAGAATAACTCGAAGC  
 TTTGAGACAGGCTGAAAATGAGCCTCAGCTGCACAAAAGAAAATAAGCCCTATGCCTTGAAATTCAGAA  
 AAGAACTTTCCAATGGACATGAGTGATGATTATGAGACACAGCAGTGGCCAGAAAGAAAGCTTAAGCACA  
 TGCAATCCCTCCTATGTATGAAGAGAATCCAGGGATAACCCCTTTAAACGCACAAATGAAATAGTGGA  
 GGAACAATATACTCCTCAAAGCCTTGCTACATTGGAATCTGTCTCCAAGAGCTGGGAAAACGACAGGA  
 CCAACAACCCAGAAACGTGAGAGGATGGATGAGGAGCAAAAACCTTATACGGATGATGAAGATGATATCT  
 ACAAGGCTAATAACATTGCCTATGAAGATGTGGTCTGGGGGAGAAGACTGGAACCCAGTAGAGGAGAAAAT  
 AGAGAGTCAAACCCAGGAAGAGGTGAGAGACAGCAAAGAGAATATAGAAAAAATGAACAATCAATGAT  
 GAGATGAAACGCTCAGGGCAGCTTGGCATCCAGGAAGAAGGTCTTCGAAAGAGAGTAAAGACCAACTCT  
 CAGATGATGTCTCAAAGTAATTGCCTATTTGAAAAGGTTAGTAAATGCTGCAGGAAGTGGGAGGTTACA  
 GAATGGGCAAAAATGGGAAAAGGGCCACCAGGCTTTTTGAGAAACCTTTGATTCTCAGTCTATTTATCAG  
 CTGATTGAAATCTCAAGGAATTTACAGATACCCCAAGACTTAATTGAGATGCTCAAACTGGGAGAGA  
 AGCCGAATGGATCAGTGAACCCGAGCGGGAGCTTGACCTTCTGTTGACCTAGATGACATCTCAGAGGC  
 TGACTTAGACCATCCAGACCTGTTCCAAAATAGGATGCTCTCCAAGAGTGGCTACCCATAAACACACCTGGT  
 GGTGCTGGGACTGAGGCCTACCAGACGGCTCAGTGTTGAGGATATTTTAAATCTTTTAGGGATGGAGA  
 GTGCAGCAAAATCAGAAAACGTCGTATTTTCCCAATCCATATAACCAGGAGAAAAGTTCTGCCAAGGCTCCC  
 TTATGGTCTGGAAGATCTAGATCGAACAGCTTCCCAAAGCTGCCTGGATTCCACATGTTGAAAACAGA  
 CAGATGGCATATGAAAACCTGAACGACAAGGATCAAGAATTAGGTGAGTACTTGGCCAGGATGCTAGTTA  
 AATACCCTGAGATCATTAAATCAAACCAAGTGAAGCGAGTTCTGGTCAAGGCTCATCTGAAGGTGACCT  
 GCAGGAAGAGGAACAAATGAGCAGGCCATCAAAGAGCATTGAAATCAAGGCAGCTCTCAGGAGACTGAC  
 AAGCTGGCCCCGGTGAGCAAAAGGTTCCCTGTGGGGCCCCGAAGAATGATGATACCCCAATAGGCAGT  
 ACTGGGATGAAGATCTGTTAATGAAAGTCTGGAATACCTCAACCAAGAAAAGGCAGAAAAGGGAAGGGA  
 GCATATTGCTAAGAGAGCAATGGAAAATATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG205382 representing NM\_003469  
 Red=Cloning site Green=Tags(s)

MAEAKTHWLGAAISLIPLIFLISGAEAAASFQRNQLLQKEPDLRLNVQKFPSPMIRALEYIENLRQQA  
 KEESPDPYNPYQGVSVPLQKQKENGDESHLPERDSLSEEDWMRIILEALRQAENEPQSAPKENKPYALNSE  
 KNFPMDSDDYETQQWPERKLKHMQFPMPYEENSRDNPFKRTNEIVEEQYTPQSLATLESVQELGKLTG  
 PNNQKRERMDDEEKLYTDEDDIYKANNIAYEDVVGEDWNPVEEKIESQTQEEVRDSKENIEKNEQIND  
 EMKRSGQLGIQEEGLRKEKSKDQLSDDVSKVIAYLKRLVNAAGSGRLQNGQNGERATRLFEKPLDSQSIYQ  
 LIEISRNLQIPPEDLIEMLKTGEKPNGSVEPERELDLPVDLDDISEADLDHPDLFQNRMLSKSGYPKTPG  
 GAGTEALPDGLSVEDILNLLGMESAANQKTSYFNPYNQEKVLPRLPYGAGRSRNLPKAAWIPHVNR  
 QMAYENLNDKQELGEYLARMLVKYPEIINSNQKRVPGQGSSEGLQEEEQIEQAIKEHLNQGSSQETD  
 KLAPVSKRFPVGPKNDDTPNRQYWDELLMKVLEYLNQEKAKEGREHIAKRAMENM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_003469

**ORF Size:** 1851 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

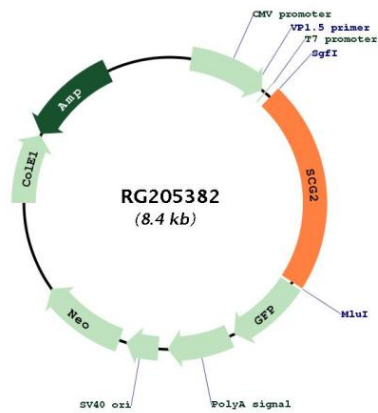
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_003469.3](#), [NP\\_003460.2](#)

RefSeq Size: 2490 bp  
 RefSeq ORF: 1854 bp  
 Locus ID: 7857  
 UniProt ID: [P13521](#)  
 Cytogenetics: 2q36.1  
 Domains: Granin  
 Protein Families: Secreted Protein, Transmembrane

**Gene Summary:** The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Studies in rodents suggest that the full-length protein, secretogranin II, is involved in the packaging or sorting of peptide hormones and neuropeptides into secretory vesicles. The full-length protein is cleaved to produce the active peptide secretoneurin, which exerts chemotaxic effects on specific cell types, and EM66, whose function is unknown. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG205382