

## Product datasheet for **SC117954**

### Chromogranin C (SCG2) (NM\_003469) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chromogranin C (SCG2) (NM_003469) Human Untagged Clone
Tag:	Tag Free
Symbol:	Chromogranin C
Synonyms:	CHGC; EM66; SgII; SN
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117954 sequence for NM\_003469 edited (data generated by NextGen Sequencing)

```

ATGGCTGAAGCAAAGACCCACTGGCTTGGAGCAGCCCTGTCTTATCCCTTTAATTTTC
CTCATCTCTGGGGCTGAAGCAGCTTCATTTTCAGAGAAACCAGCTGCTTCAGAAAGAACCA
GACCTCAGGTTGGAAAATGTCCAAAAGTTCCAGTCTGAAATGATCAGGGCTTTGGAG
TACATAGAAAACCTCCGACAACAAGCTCATAAGGAAGAAAAGCAGCCAGATTATAATCCC
TACCAAGGTGTCTGTGCCCTTCAGCAAAAAGAAAATGGCGATGAAAGCCACTTGCCC
GAGAGGGATTCACTGAGTGAAGAAGACTGGATGAGAATAATACTCGAAGCTTTGAGACAG
GCTGAAAATGAGCCTCAGTCTGCACCAAAAAGAAAATAAGCCCTATGCCTTGAATTCAGAA
AAGAACTTTCCAATGGACATGAGTGATGATTATGAGACACAGCAGTGGCCAGAAAGAAAAG
CTTAAGCACATGCAATTCCTCTCTATGTATGAAGAGAATTCCAGGGATAACCCCTTTAAA
CGCACAAATGAAATAGTGGAGGAACAATACTCCTCAAAGCCTTGCTACATTGGAATCT
GTCTTCCAAGAGCTGGGAAAAGTACAGGACCAAAACAACCAGAAACGTGAGAGGATGGAT
GAGGAGCAAAAACCTTTATACGGATGATGAAGATGATATCTACAAGGCTAATAACATTGCC
TATGAAGATGTGGTCCGGGGAGAAGACTGGAACCCAGTAGAGGAGAAAATAGAGAGTCAA
ACCCAGGAAGAGGTGAGAGACAGCAAAGAGAATATAGAAAAAAATGAACAAATCAACGAT
GAGATGAAACGCTCAGGGCAGCTTGGCATCCAGGAAGAAGATCTTCGGAAGAGAGTAA
GACCAACTCTCAGATGATGTCTCAAAGTAATTGCCTATTTGAAAAGGTTAGTAAATGCT
GCAGGAAGTGGGAGGTTACAGAAATGGGCAAAATGGGGAAGGGCCACCAGGCTTTTTGAG
AAACCTCTTGATTCTCAGTCTATTTATCAGCTGATTGAAATCTCAAGGAATTTACAGATA
CCCCCAGAAGACTTAATTGAGATGCTCAAACTGGGGAAGCCGAATGGATCAGTGGAA
CCGGAGCCGGGAGCTTGACCTTCTGTTGACCTAGATGACATCTCAGAGGCTGACTTAGAC
CATCCAGACCTGTTCCAAAATAGGATGCTCTCCAAGAGTGGCTACCCTAAAACACCTGGT
CGTGCTGGGACTGAGCCCTACCAGACGGGCTCAGTGTGAGGATATTTTAAATCTTTTA
GGGATGGAGAGTGCAGCAAAATCAGAAAACGTCGTATTTTCCCAATCCATATAACCAGGAG
AAAGTTCTGCCAAGGCTCCCTTATGGTGTGGAAGATCTAGATCGAACCCAGCTTCCCAAA
GCTGCCTGGATTCCACATGTTGAAAACAGACAGATGGCATATGAAAACCTGAACGACAAG
GATCAAGAATTAGGTGAGTACTTGGCCAGGATGCTAGTTAAATACCCTGAGATCATTAA
TCAAACCAAGTGAAGCGAGTTCCTGGTCAAGGCTCATCTGAAGATGACCTGCAGGAAGAG
GAACAAATGAGCAGGCCATCAAAGAGCATTGAAATCAAGGCAGCTCTCAGGAGACTGAC
AAGCTGGCCCTGGTGAGCAAAAGGTTCCCTGTGGGGCCCCGAAGAATGATGATACCCCA
AATAGGCAGTACTGGGATGAAGATCTGTTAATGAAAGTGTGGAATACCTCAACCAAGAA
AAGGCAGAAAAGGGAAGGAGCATATTGCTAAGAGAGCAATGGAAAATATGTAA

```

Clone variation with respect to NM\_003469.4  
 1691 c=>t

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_003469 unedited
AGTATATTTGTATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCTGAACCCG
GTGACGTCAGTGTGGCAGTGGGAGTCAGGCGCAGCGGCTCCCTATAAGCAGAGGAGCTG
TCCGTGTGCTGAAACGGCCCGAGAAGCTCGCCCGGAGAACGGGGAGGAATATGCTGTGGA
GCTCCTCTGCCATATAACAAGAGGAAATCTTTCAAACATGGCTGAAGCAAAGACCC
ACTGGCTTGGAGCAGCCCTGTCTTATCCCTTTAATTTTCTCATCTCTGGGGCTGAAG
CAGCTTCATTTTCAGAGAAACCAGCTGCTTCAGAAAGAACCAGACCTCAGGTTGGAAAATG
TCCAAAAGTTTCCAGTCTGAAATGATCAGGGCTTTGGAGTACATAGAAAACCTCCGAC
AACAAAGCTCATAAGGAAGAAAGCAGCCAGATTATAATCCCTACCAAGGTGTCTCTGTCC
CCCTTCAGCAAAAAGAAAATGGCGATGAAAGCCACTTGCCCGAGAGGGATTCACTGAGTG
AAGAAGACTGGATGAGAAATAACTCGAAGCTTTGAGACAGGCTGAAAATGAGCCTCAGT
CTGCACANAAGAAAATAAGCCCTATGCCTTGAATTCAGANAGAACTTTCCAATGGACA
TGAGTGATGATTATGAGACACAGCAGTGGCCAGAAAGAAAGCTTAAGCACATGCCATTCC
CTNCTATGTATGAAGAGAATCCAGGGGATACCCCTCTAACGCCAAAATGAATAGTGGA
GGACCATATACTCCTCAAAGCCCTGCTACATTGGAATCTGTCTCCAGAGCTCGGGGAAC
TGACCGGACCAACCACCNNAACCTGAAAGGATTGATGAAGACCAAAAACCTTATACCCATG
ATGAGATGATATCTACAGGGCTAATACACTGCCTATGAAG
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_003469 unedited
CGCAATCTAGTGTGAGTTTTTTTTTTTTTTTTTCCAGAAAAACATTTATTAATCAACA
GTAAAACACACAATAGAAAAGGCCTTATAAATAAACTATATATTTATAATGCTTTATTT
TTTTGGTCCAGTACTCCACAAAACACTACAGACAGTAACAAAATAATTCAATAAATATTA
AAAACCTTCAATAGAATTATAGGACACTTTTTTATCATATGTGAGCATCAACAATGCCAC
AGCCATTAGATATACTATTAACACAGTCATAGATATCTTTCTTGAATAATGGACATAAT
AAATTTTTTATCAAGGAGTCATAACATTTACACATATCCATACACAAGATAACAGCTCAG
AGGAAATGAAGCAGACTCCCCAGTGACCTGGTTTCATCTGCCTGTACATCATTTAAAGAT
ATTACAGTGTTAACAGGATAGAAGTCAACACACTGAAGAGAAATGTTGGGATTTGCTTGG
GGTGGGAGGAATGAAAGTAGGGTAATTAATGAAAGCAGCTTACATATTTTCCATTGCTCT
CTTACAATATGCTCCCTCCCTTTCTGCCTTTTCTTGGTTGAGGTATTCCAGCACTTTC
ATTAACAGATCTTCATCCAGTACTGCCTATTTGGGGTATCATCATTCTTCGGAGGCCCC
ACAGGGAACCTTTTGTCTACCAGGGCCAGCTTGTCAGTCTCCTGAGAGCTGCCTTGATTC
AAATGCTCTTTGATGGCCTGCTCAATTTGGTCCTCTTCTGCAAGTCATCTTCAGATGAG
CCTTGACCAGAAACTCGCTTCACTTGGTTTGAATAATGATCTCAGGGTATTTACTAGCAT
CCTGGNCAGTACTCACCTATTTCTGATCCTGGCGTTTCCAGGTTTCATATGCATCTGTCTGT
TTCACATGTGAATCCAGCAGCTTTGGAAGCTGTTTCGATCTAAATCTTCGCACATATGGAG
CCTGGAATACTTTTCTGTTTATGATGGGAAATCAN
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003469

**Insert Size:**

2440 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003469.3</a> , <a href="#">NP_003460.2</a>
<b>RefSeq Size:</b>	2490 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	7857
<b>UniProt ID:</b>	<a href="#">P13521</a>
<b>Cytogenetics:</b>	2q36.1
<b>Domains:</b>	Granin
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	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]