

## Product datasheet for **MC219709**

### Scg2 (NM\_009129) Mouse Untagged Clone

#### Product data:

|                    |                                       |
|--------------------|---------------------------------------|
| Product Type:      | Expression Plasmids                   |
| Product Name:      | Scg2 (NM_009129) Mouse Untagged Clone |
| Tag:               | Tag Free                              |
| Symbol:            | Scg2                                  |
| Synonyms:          | Chgc; Sgll                            |
| Vector:            | pCMV6-Entry (PS100001)                |
| E. coli Selection: | Kanamycin (25 ug/mL)                  |
| Cell Selection:    | Neomycin                              |



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Fully Sequenced ORF: >MC219709 representing NM\_009129  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGGAGCTAAGGCGTACCGACTTGGAGCAGTTCTGCTTCTTATCCACTTAATTTTCCTCATCTCTG  
GAGCCGAAGCAGCTTCTTCCAGCGAAACCAGCTGCTTCAGAAAGAACCAGACCTCAGATTGGAGAATGT  
CCAAAAGTTTCTAGTCCAGAAATGATCAGGGCTTTGGAGTACATAGAAAAGCTCAGGCAGCAAGCTCAC  
AGAGAAGAAAGCAGCCAGACTACAATCCCTACCAAGGCGTCTCTGTTCTCTTCAACTCAAAGAAAACG  
GAGAAGAAAGCCACTTGGCAGAGAGCTCAAGGGATGCACTGAGTGAAGACGAGTGGATGCGGATAATACT  
CGAGGCTCTGAGGCAGGCTGAAAATGAGCCGCCATCTGCCCCAAAGAGAAACAAGCCCTATGCCTTGAAT  
CTGGAGAAGAACTTCCAGTGGACACGCCTGATGACTATGAGACTCAACAGTGGCCTGAGAGGAACTCA  
AGCACATGCGGTTCCCTCTCATGTATGAAGAGAATTCCAGAGAAAACCCCTTCAAACGCACAATGAAAT  
AGTCGAGGAACAATACACACCCCAAAGTCTTGCTACCCTGGAGTCTGTGTTCCAAGAGCTTGGGAACTG  
ACAGGGCCAAGCAACCAGAAGCGTGAGAGGGTTGACGAGGAACAAAAGCTGTACACAGATGATGAAGACG  
ACGTGTACAAGACCAACAACATTGCCTATGAAGATGTCGTGGGGGGAGAAGACTGGAGCCCCATAGAGGA  
GAAAATAGAGACTCAAACCCAGGAAGAGGTGAGAGACAGCAAAGAGAACAAGAAAAATGAACAAATC  
AATGAAGAGATGAAACGTTCAAGGCAGTTGGGGCTCCCAGATGAAGAAAACCGGAGAGAGAGTAAAGACC  
AACTCTCAGAGGATGCCTCCAAAGTTATCACCTACCTGAGAAGGTTAGTGAATGCTGTGGGCAGTGGGAG  
GTCACAGAGTGGCCAAATGGGGACAGGGCAGCCCGGCTTCTTCAAGCCCTTGATTCTCAGTCTATT  
TATCAGCTGATTGAAATCTCCAGGAATTTGCAGATACCCCTGAAGATTTAATTGAGATGCTCAAAGCTG  
GAGAGAAGCCAAATGGGTTGGTGGAGCCAGAGCAGGATCTGGAGCTTGTGTTGACCTAGATGACATCCC  
AGAGGCTGACCTAGACCGTCCAGACATGTTTCAAAGTAAGATGCTTCCAAGGGTGGGTATCCCAAGGCA  
CCTGGTCGTGGTATGGTAGAGGCCTTGCCTGATGGGCTGAGTGTGAGGACATTTTAAATGTTTTAGGGA  
TGGAGAATGTAGTAAATCAGAAGTCCCCATATTTTCCAACCAATATAGCCAAGACAAGGCTCTGATGAG  
GCTCCCTTATGGTCTGGGAAATCTAGAGCCAACCAGATTCCCAAAGTAGCCTGGATCCCTGATGTTGAA  
AGCAGACAAGCACCTTATGAAAATCTGAATGACCAAGAATTGGGAGAGTACTTAGCCAGGATGCTAGTTA  
AGTACCCTGAGCTCCTGAATACCAACCAGCTGAAGAGAGTGGCCAGTCCAGTCTCCTCAGAGGATGACCT  
CCAAGAAGAAGAGCAGCTCGAGCAGGCCATCAAGGAACATCTGGGGCCAGGAAGCTCCAGGAAATGGAG  
AGACTGGCCAAGGTGAGCAAAAGGATCCCGTAGGATCCCTGAAGAATGAGGACACCCCAACAGACAGT  
ACCTGGATGAAGATATGCTCCTGAAAGTCTGGAGTACCTCAACCAAGAGCAGGCAGAGCAGGGGAGGGA  
GCATCTTGCCAAGCGGGCCATGAAAAACATG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_009129  
Insert Size: 1854 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](#)

**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\\_009129.2](#), [NP\\_033155.1](#)

**RefSeq Size:** 2485 bp

**RefSeq ORF:** 1854 bp

**Locus ID:** 20254

**UniProt ID:** [Q03517](#)

**Cytogenetics:** 1 40.89 cM

**Gene Summary:** Neuroendocrine protein of the granin family that regulates the biogenesis of secretory granules.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.