

## Product datasheet for **MG220987**

### Scg2 (NM\_009129) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scg2 (NM_009129) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Scg2
Synonyms:	Chgc; Sgll
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220987 representing NM\_009129  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGAGCTAAGGCGTACCGACTTGGAGCAGTTCTGCTTCTTATCCACTTAATTTTCTCATCTCTG  
 GAGCCGAAGCAGCTTCTTCCAGCGAAACCAGCTGCTTACGAAAGAACCAGACCTCAGATTGGAGAAATGT  
 CCAAAAAGTTTCTAGTCCAGAAATGATCAGGGCTTTGGAGTACATAGAAAAGCTCAGGCAGCAAGCTCAC  
 AGAGAAGAAAGCAGCCAGACTACAATCCCTACCAAGGCGTCTCTGTTCTCTTCAACTCAAAGAAAACG  
 GAGAAGAAAGCCACTTGGCAGAGAGCTCAAGGGATGCACTGAGTGAAGACGAGTGGATGCGGATAATACT  
 CGAGGCTCTGAGGCAGGCTGAAAATGAGCCGCCATCTGCCCCAAAGAGAAACAAGCCCTATGCCTTGAAT  
 CTGGAGAAGAACTTCCAGTGGACACGCCTGATGACTATGAGACTCAACAGTGGCCTGAGAGGAACTCA  
 AGCACATGCGGTTCCCTCTCATGTATGAAGAGAATTCCAGAGAAAACCCCTTCAAACGCACAATGAAAT  
 AGTCGAGGAACAATACACACCCCAAAGTCTTGCTACCCTGGAGTCTGTGTTCCAAGAGCTTGGGAACTG  
 ACAGGGCCAAGCAACCAGAAGCGTGAGAGGGTTGACGAGGAACAAAAGCTGTACACAGATGATGAAGACG  
 ACGTGTACAAGACCAACAACATTGCCTATGAAGATGTCGTGGGGGGAGAAGACTGGAGCCCCATAGAGGA  
 GAAAATAGAGACTCAAACCCAGGAAGAGGTGAGAGACAGCAAAGAGAACAAGAAAAATGAACAAATC  
 AATGAAGAGATGAAACGTTCAAGGCAGTTGGGGCTCCCAGATGAAGAAAACCGGAGAGAGAGTAAAGACC  
 AACTCTCAGAGGATGCCTCCAAAGTTATCACCTACCTGAGAAGGTTAGTGAATGCTGTGGGCAGTGGGAG  
 GTCACAGAGTGGCCAAATGGGGACAGGGCAGCCCGGCTTCTTCAAGCCCTTGATTCTCAGTCTATT  
 TATCAGCTGATTGAAATCTCCAGGAATTTGCAGATACCCCTGAAGATTTAATTGAGATGCTCAAAGCTG  
 GAGAGAAGCCAAATGGGTTGGTGGAGCCAGCAGGATCTGGAGTTGCTGTTGACCTAGATGACATCCC  
 AGAGGCTGACCTAGACCGTCCAGACATGTTTCAAAGTAAGATGCTCTCAAGGGTGGGTATCCCAAGGCA  
 CCTGGTCGTGGTATGGTAGAGGCCTTGCCTGATGGGCTGAGTGTGAGGACATTTTAAATGTTTTAGGGA  
 TGGAGAATGTAGTAAATCAGAAGTCCCCATATTTTCCAACCAATATAGCCAAGACAAGGCTCTGATGAG  
 GCTCCCTTATGGTCTGGGAAATCTAGAGCCAACCAGATCCCAAAGTAGCCTGGATCCCTGATGTTGAA  
 AGCAGACAAGCACCTTATGAAAATCTGAATGACCAAGAATTGGGAGAGTACTTAGCCAGGATGCTAGTTA  
 AGTACCCTGAGCTCCTGAATACCAACCAGCTGAAGAGAGTGCCAGTCCAGTCTCCTCAGAGGATGACCT  
 CCAAGAAGAAGAGCAGCTCGAGCAGGCCATCAAGGAACATCTGGGGCCAGGAAGCTCCAGGAAATGGAG  
 AGACTGGCCAAGGTGAGCAAAAGGATCCCGTAGGATCCCTGAAGAATGAGGACACCCCAACAGACAGT  
 ACCTGGATGAAGATATGCTCCTGAAAGTCTGGAGTACCTCAACCAAGAGCAGGCAGAGCAGGGGAGGGA  
 GCATCTTGCCAAGCGGGCCATGAAAAACATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220987 representing NM\_009129  
 Red=Cloning site Green=Tags(s)

MAGAKAYRLGAVLLL IHLIFLISGAEAA SFQRNQLLQKEPDLRL ENVQKFPSP EMIRALEYIEKLRQQA  
 REESSPDYNPYQGVSVPLQLKENGEESH LAESSRDALSEDEWMRIILEALRQAENEPSPAPKENKPYALN  
 LEKNFPVDTPDDYETQQWPERLKHMRFP LMYEENSRENPFKRTNEIVEEQYTPQSLATLESVFQELGKL  
 TGPSNQKRERVDEEQLYTDEDDVYKTN NIAYEDVVGEDWSPIEEKIETQTQEEVRDSKENTEKNEQI  
 NEEMKRSGQLGLPDEENRRESKDQLSE DASKVITYLRRLVNAVGSGRS QSGPNGDRAARLLQKPLDSQSI  
 YQLIEISRNLQIPPEDLIEMLKAGEKPNGL VEPEQDLELAVDLLDIPEADLRPDMFQSKMLSKGGYPKA  
 PGRGMVEALPDGLSVEDILNVLGMENVN QKSPYFPNQYSQDKALMRLPYGPGKSRANQIPKVAWIPDVE  
 SRQAPYENLNDQELGEYLARMLVKYPELLNTNQLKRVSPVSSDDLQEEEQLEQAIKEHLGPGSSQEME  
 RLAKVSKRIPVGS LKNEDTPNRQYLDEDM LLLKVLEYLNQEQAEQGREHLAKRAMENM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



**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\\_009129.3](#)

**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]