

Product datasheet for **MG209051**

Scg2 (BC048249) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg2 (BC048249) 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:

>MG209051 representing BC048249
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGAGCTAAGGCGTACCGACTTGGAGCAGTTCTGCTTCTTATCCACTTAATTTTCCTCATCTCTG
 GAGCCGAAGCAGCTTCTTCCAGCGAAACCAGCTGCTTCCAGAAAGAACCCAGACTCAGATTGGAGAAATGT
 CCAAAAAGTTTCTAGTCCAGAAATGATCAGGGCTTTGGAGTACATAGAAAAGCTCAGGCAGCAAGCTCAC
 AGAGAAGAAAGCAGCCAGACTACAATCCCTACCAAGGCGTCTCTGTTCTCTTCAACTCAAAGAAAACG
 GAGAAGAAAGCCACTTGGCAGAGAGCTCAAGGGATGCACTGAGTGAAGACGAGTGGATGCGGATAATACT
 CGAGGCTCTGAGGAGGCTGAAAATGAGCCGCCATCTGCCCCAAAGAGAAACAAGCCCTATGCCTTGAAT
 CTGGAGAAGAACTTCCAGTGGACACGCCTGATGACTATGAGACTCAACAGTGGCCTGAGAGGAACTCA
 AGCACATGCGGTTCCCTCTCATGTATGAAGAGAATTCCAGAGAAAACCCCTTCAAACGCACAATGAAAT
 AGTCGAGGAACAATACACACCCCAAAGTCTTGCTACCCTGGAGTCTGTGTTCCAAGAGCTTGGGAACTG
 ACAGGGCCAAGCAACCAGAAGCGTGAGAGGGTTGACGAGGAACAAAAGCTGTACACAGATGATGAAGACG
 ACGTGTACAAGACCAACAACATTGCCTATGAAGATGTCGTTGGGGGAGAAGACTGGAGCCCCATAGAGGA
 GAAAATAGAGACTCAAACCCAGGAAGAGGTGAGAGACAGCAAAGAGAACAAGAAAAATGAACAAATC
 AATGAAGAGATGAAACGTTCAAGGCAGTTGGGGCTCCCAGATGAAGAAAACCGGAGAGAGAGTAAAGACC
 AACTCTCAGAGGATGCCTCCAAAGTTATCACCTACCTGAGAAGGAATTTGCAGATACCCCTGAAGATTT
 AATTGAGATGCTCAAAGCTGGAGAGAAGCCAAATGGGTTGGTGGAGCCAGAGCAGGATCTGGAGCTTGCT
 GTTGACCTAGATGACATCCCAGAGGCTGACCTAGACCGTCCAGACATGTTTCAAAGTAAGATGCTCCCA
 AGGGTGGGTATCCCAAGGCACCTGGTCTGGTATGGTAGAGGCCCTTGCCTGATGGCTGAGTGTGAGGA
 CATTTTAAATGTTTTAGGGATGGAGAATGTAGTAAATCAGAAGTCCCATATTTTCCCAACCAATATAGC
 CAAGACAAGGCTCTGATGAGGCTCCCTTATGGTCTGGGAAATCTAGAGCCAACCAAGATTCCCAAAGTAG
 CCTGGATCCCTGATGTTGAAAGCAGACAAGCACCTTATGAAAATCTGAATGACCAAGAATTGGGAGAGTA
 CTTAGCCAGGATGCTAGTTAAGTACCCTGAGCTCCTGAATACCAACCAGCTGAAGAGAGTCCCAGTCCA
 GTCTCCTCAGAGGATGACCTCCAAGAAGAAGAGCAGCTCGAGCAGGCCATCAAGGAACATCTGGGCCAG
 GAAGCTCCAGGAAATGGAGAGACTGGCAAGGTGAGCAAAGGATCCCCGTAGGATCCCTGAAGAATGA
 GGACACCCCAAACAGACAGTACCTGGATGAAGATATGCTCCTGAAAGTGTGGAGTACCTCAACCAAGAG
 CAGGCAGAGCAGGGGAGGAGCATCTTGCCAAGCGGGCCATGAAAACATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209051 representing BC048249
 Red=Cloning site Green=Tags(s)

MAGAKAYRLGAVLLL IHLIFLISGAEAA SFQRNQLLQKEPDLRL ENVQKFPSP EMIRALEYIEKLRQQA
 REESSPDYNPYQGVSVPLQLKENGEESH LAESSRDALSEDEWMRIILEALRQAENEPSPAPKENKPYALN
 LEKNFPVDTPDDYETQQWPERK LKHMRFPLMYEENSRENPFKRTNEIVEEQYTPQSLATLESV FQELGKL
 TGPSNQKRERVD EEQKLYTDEDDVYKTNNIAYEDVVGGE DWSPIEEKIETQTQEEVRDSKENTEKNEQI
 NEEMKRSGQLGLPDEENRRESKDQL SEDASKVITYLRRNLQIPPEDL IEMLKAGEKPNGLVEPEQDLELA
 VDLDIPEADLDRPDMFQSKML SKGGYPKAPGRGMVEALPDGLSVEDILNVLGMENVVNQKSPYFPNQYS
 QDKALMRLPYGPKSRANQIPKVAWIPDVESRQAPYENLNDQELGEYLARMLVKYPELLNTNQLKRVPS
 VSSEDDLQEEEQLEQAIKEHLGPGSSQEMERLAKVSKRIPVGS LKNEDTPNRQYLDEDMLLKVLEYLNQE
 QAEQGREHLAKRAMENM

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	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:	<ol style="list-style-type: none">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:	BC048249 , AAH48249
RefSeq Size:	2211 bp
RefSeq ORF:	1733 bp
Locus ID:	20254
Cytogenetics:	1 40.89 cM
Gene Summary:	Neuroendocrine protein of the granin family that regulates the biogenesis of secretory granules.[UniProtKB/Swiss-Prot Function]