

## Product datasheet for **RR206948**

### Scg2 (NM\_022669) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scg2 (NM_022669) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scg2
Synonyms:	Chcg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR206948 representing NM\_022669  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTGAATCGAAGGCTTACCGATTTGGAGCAGTTCTGCTTCTTATCCACTTAATTTTCCTTGTCCCTG  
 GAACCGAAGCAGCTTCTTCCAGCGAAACCAGCTGCTTCAGAAAGAACCAGACCTCAGATTGGAGAATGT  
 CCAGAAGTTTCTAGTCCAGAAATGATCAGGGCTTTGGAGTACATAGAAAAGCTCAGGCAGCAGGCCAC  
 AGAGAAGAAAGCAGCCAGACTACAATCCCTACCAAGGCATCTCTGTTCCCTTCAACTCAAAGAAAACG  
 GAGAAGAAAGTCACTTGGCAGAGAGCTCAAGGGATGTCCTGAGTGAAGACGAGTGGATGCGGATAACT  
 TGAGGCTTTGAGCAGGCTGAAAATGAGCCGCCATCTGCCCTCAAGGAGAACAAGCCCTATGCCTTGAAT  
 CTGGAGAAGAACTTCCCTGTGGACACGCCTGATGACTATGAGACTCAACAATGGCCTGAGAGGAACTCA  
 AGCACATGCGGTTCCCTCTCATGTATGAAGAGAATTCCAGGAAAACCCCTTCAAACGCACAACGAAAT  
 AGTAGAAGAACAGTACACACCCAAAGTCTTGCTACCCTGGAGTCTGTGTTCCAAGAGCTTGGGAACTG  
 ACAGGGCCAAGCAACCAGAAGCGTGAGAGGGTTGACGAGGAACAGAAGCTCTACACGGACGATGAAGATG  
 ACGTGTACAAGACCAACAACATTGCCTATGAAGATGTGGTCGGGGGAGAAGACTGGAGTCCATGGAGGA  
 GAAAATAGAGACTCAAACCCAGGAAGAGGTGAGAGACAGCAAAGAGAACACAGAAAAACGAAACAATC  
 AATGAAGAGATGAAACGGTCAGGGCACTTGGGGCTCCCAGATGAAGGTAACCGGAAAGAGAGCAAAGACC  
 AGCTCTCAGAGGACGCCTCCAAGGTCATCACCTACTTGAGAAGGTTAGTGAATGCTGTGGCAGTGGGAG  
 GTCCCAGAGTGGCAAACCGGGACAGGGCAGCCAGGCTTCTTGAGAGGCCCTTGATTCTCAGTCTATT  
 TATCAGCTGATTGAAATCTCCAGGAATTTGCAGATACCCCTGAAGACTTAATTGAGATGCTCAAAGCTG  
 GGGAGAAAACCAAATGGGTTGGTGGAGCCCGAGCAGGATCTGGAGCTTGCTGTTGACCTAGATGACATCCC  
 GGAAGCTGACATAGACCGCCAGACATGTTTCAAAGTAAGACGCTCTCAAGGGTGGGTATCCCAAGGCCA  
 CCTGGTCGAGGTATGATGGAGGCCTTGCCAGATGGCCTCAGTGTTGAAGACATTTTAAATGTTTTAGGGA  
 TGGAGAATGTAGCAAATCAGAAATCCCATATTTCCCAACCAATACAGCCGAGACAAGGCTCTGCTGAG  
 GCTTCTTATGGTCTGGGAAATCTAGAGCCAACCAGATTCCCAAAGTAGCCTGGATCCCAGACGTTGAA  
 AGCAGACAAGCCCTATGACAATCTGAATGATAAGGACCAAGAATTGGGAGAGTACTTAGCCAGGATGC  
 TAGTTAAGTACCCTGAGCTCATGAATACCAACCAGCTGAAGAGAGTGCCAGCCAGGCTCCTCAGAAGA  
 TGACCTCCAAGAAGAAGAGCAGCTCGAGCAGGCCATCAAGGAGCATCTGGGTCAAGGAAGCTCCCAGGAA  
 ATGGAGAAACTGGCCAAGGTGAGCAAAGGATCCCTGCAGGATCCCTGAAGAATGAGGATACCCCAATA  
 GACAGTACCTGGATGAAGATATGCTCCTGAAAGTGCTAGAGTATCTCAATCAAGAACAGGCAGAGCAGGG  
 AAGGGAACATCTTGCCAACGGGCCATGAAAAACATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206948 representing NM\_022669  
 Red=Cloning site Green=Tags(s)

MTESKAYRFGAVLLL IHLIFLVPGTEAASFQRNQLLQKEPDLRLENVQKFPSPEMIRALEYIEKLRQQAH  
 REESSPDYNPYQGISVPLQLKENGEESHLESSRDVLSEDEWMRIILEALRQAENEPSSALKENKPYALN  
 LEKNFPVDTDDYETQQWPERLKHMRFLMYEENSRENPFKRTNEIVEEQYTPQSLATLESVQELGKL  
 TGPSNQKRERVDDEEQLYTDEDDVYKTNIAIYEDVVGEDWSPMEEKIETQTQEEVRDSKENTEKNEQI  
 NEEMKRSGLGLPDEGNRKEKSKQLSEDASKVITYLRRLVNAVSGRSQSGQNGDRAARLLERPLDSQSI  
 YQLIEISRNLQIPPEDLIEMLKAGEKPNGLVEPEQDLELAVLDDIPEADIDRPDMFQSKTLSKGGYPKA  
 PGRGMEALPDGLSVEDILNVLGMENVANQKSPYFPNQYSRDKALLRPLYPGPKSRANQIPKVAVIPDVE  
 SRQAPYDNLNDKQDELGEYLARMLVKYPELMNTNQLKRVSPGSSDDLQEEEQLEQAIKEHLGQSSSQE  
 MEKLAKVSKRIPAGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEGREHLAKRAMENM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_022669

ORF Size: 1857 bp

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:

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\\_022669.1](#), [NP\\_073160.1](#)

RefSeq Size: 2289 bp

RefSeq ORF: 1860 bp

Locus ID: 24765

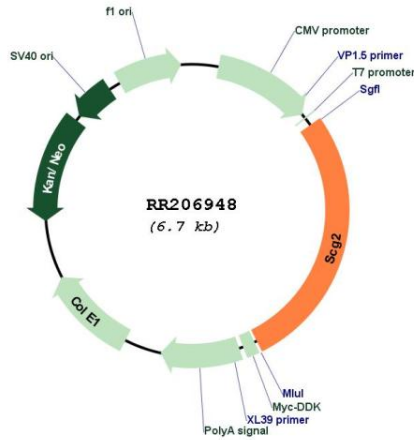
UniProt ID: [P10362](#)

Cytogenetics: 9q34

MW: 71 kDa

Gene Summary: member of the chromogranin family of proteins that are localized to large dense core vesicles and are endoproteolytically processed to smaller neuropeptides [RGD, Feb 2006]

**Product images:**



Circular map for RR206948