

## Product datasheet for **RC228770**

### Secretogranin 3 (SCG3) (NM\_001165257) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Secretogranin 3 (SCG3) (NM_001165257) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Secretogranin 3
Synonyms:	SGIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228770 representing NM\_001165257  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGTTCTCGGGACCGCCTTGGATTCTGGTGTAGTGCTCCCGATTCAAGCTTTCCCAAACCTG  
 GAGGAAGCCAAGACAAATCTCTACATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGAACAGATTGC  
 TGAAGCAGAAGAAGACAAGATTAATAAACAATATCCTCCAGAAAACAAGCCAGGTCAGAGCAACTATTCT  
 TTTGTTGATAACTGAACCTGCTAAAGGCAATAACAGAAAAGGAAAAAATTGAGAAAAGAAAGACAATCTA  
 TAAGAAGCTCCCACTTGATAAATAGTTGAATGTGGAAGATGTTGATTCAACCAAGAATCGAAAAGTAT  
 CGATGATTATGACTCTACTAAGAGTGGATTGGATCATAAATTTCAAGATGATCCAGATGGTCTTCATCAA  
 CTAGACGGGACTCCTTTAACCGCTGAAGACATTGCCATAAAATCGTGCAGGATTTATGAAGAAAATG  
 ACAGAGCCCGTTTGACAAGATTGTTTCTAACTACTTAATCTCGGCCTTATCACAGAAAGCCAAGCACA  
 TACTGGAAGATGAAGTAGCAGAGTTTTACAAAAATTAATCTCAAAGGAAGCCAACAATTATGAGGAG  
 GATCCCAATAAGCCACAAGCTGGACTGAGAATCAGGCTGAAAAATACCAGAGAAAAGTACTCCAATGG  
 CAGCAATTCAGATGGTCTTGCTAAGGGAGAAAACGATGAAACAGTATCTAACACATTAACCTTGACAAA  
 TGGCTTGAAAGGAGAATAAACCTACAGTGAAGACAACCTTTGAGGAACTCCAATATTTCCCAAATTTT  
 TATGCGCTACTGAAAAGTATTGATTGAGAAAAGAAGCAAAAGAGAAAACACTGATTACTATCATGA  
 AAACACTGATTGACTTTGTGAAGATGATGGTGAATATGGAACAATATCTCCAGAAGAAGGTGTTTCTTA  
 CCTTGAAAAGTGGATGAAATGATTGCTTTCAGACAAAACAAGCTAGAAAAAATGCTACTGACAAT  
 ATAAGCAAGCTTTTCCAGCACCATCAGAGAAGAGTATGAAGAAACAGACAGTACCAAGGAAGAAGCAG  
 CTAAGATGGAAGGAATATGGAAGCTTGAAGGATTCACAAAAGATGATAACTCCAACCCAGGAGGAAA  
 GACAGATGAACCCAAAGGAAAAACAGAAGCCTATTTGGAAGCCATCAGAAAAAATATTGAATGGTTGAAG  
 AAACATGACAAAAAGGAAATAAAGAAGATTATGACCTTTCAAAGATGAGAGACTTCATCAATAACAAG  
 CTGATGCTTATGTGGAGAAAGGCATCCTTGACAAGGAAGAAGCCGAGGCCATCAAGCGCATTTATAGCAG  
 CCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228770 representing NM\_001165257  
 Red=Cloning site Green=Tags(s)

MGFLGTGTWILVVLPIQAFPKPGGSQDKSLHNRELSAERPLNEQIAEAEEDKIKKTYPPENKPGQSNYS  
 FVDNLNLLKAITEKEKIEKERQSISSPLDNKLNVEDVDSTKNRKLIDDYDSTKSLDHFQDDPDGLHQ  
 LDGTPLTAEIVHKIAARIYEENDRAAFDKIVSKLLNLGLITESQAHTLEDEVAEVLQKLISKEANNYEE  
 DPNKPTSWTENQAGKIQEKVTPMAAIQDGLAKGENDETVSNTLTLTNGLERRTKYSEDNFEELQYFPNF  
 YALLKSIDSEKEAKEKETLITIMKTLIDFVKMMVKYGTISPEEGVSYLENLDEMIALQTKNKLEKNATDN  
 ISKLFPAPEKSHEETDSTKEEAAKMEKEYGSLKDSTKDDNSNPGGKTDEPKGKTEAYLEAIRKNIEWLK  
 KHKDKGNKEDYDLSKMRDFINKQADAYVEKGILDKEEAEAIKRIYSSL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001165257

**ORF Size:** 1407 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\\_001165257.1](#), [NP\\_001158729.1](#)
**RefSeq Size:** 3313 bp

**RefSeq ORF:** 711 bp

**Locus ID:** 29106

**UniProt ID:** [Q8WXD2](#)

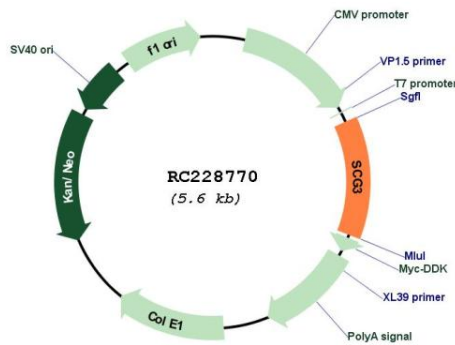
**Cytogenetics:** 15q21.2

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 53 kDa

**Gene Summary:** The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Granins may serve as precursors for biologically active peptides. Some granins have been shown to function as helper proteins in sorting and proteolytic processing of prohormones; however, the function of this protein is unknown. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RC228770