

Product datasheet for **RG228770**

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:	TurboGFP
Symbol:	SCG3
Synonyms:	SGIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228770 representing NM_001165257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGTTCTCGGGACCGCCTTGGATTCTGGTGTAGTGCTCCCGATTCAAGCTTTCCCAAACCTG
 GAGGAAGCCAAGACAAATCTCTACATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGAACAGATTGC
 TGAAGCAGAAGAAGACAAGATTAACAAAAACATATCCTCCAGAAAAACAAGCCAGGTGAGAGCAACTATTCT
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 TAAGAAGCTCCCACTTGATAAATAGTTGAATGTGGAAGATGTTGATTCAACCAAGAATCGAAAAGTATG
 CGATGATTATGACTCTACTAAGAGTGGATTGGATCATAAATTTCAAGATGATCCAGATGGTCTTCATCAA
 CTAGACGGGACTCCTTAACCGCTGAAGACATTGCCATAAAATCGTGCAGGATTTATGAAGAAAATG
 ACAGAGCCGCTTTGACAAGATTGTTTCTAACTACTTAATCTCGGCCTTATCACAGAAAGCCAAGCACA
 TACTGGAAGATGAAGTAGCAGAGTTTTACAAAAATTAATCTCAAAGGAAGCCAACAATTATGAGGAG
 GATCCCAATAAGCCACAAGCTGGACTGAGAATCAGGCTGGAAAAATACCAGAGAAAAGTACTCCAATGG
 CAGCAATTCAGATGGTCTTGCTAAGGGAGAAAACGATGAAACAGTATCTAACACATTAACCTTGACAAA
 TGGCTTGAAAGGAGAATAAACCTACAGTGAAGACAACCTTTGAGGAACTCCAATTTCCCAAATTTTC
 TATGCGCTACTGAAAAGTATTGATTGAGAAAAGAAGCAAAAGAGAAAAGAAACACTGATTACTATCATGA
 AAACACTGATTGACTTTGTGAAGATGATGGTGAATATGGAACAATATCTCCAGAAGAAGGTGTTTCTTA
 CCTTGAAAAGTGGATGAAATGATTGCTTTCAGACCAAAAACAAGCTAGAAAAAATGCTACTGACAAT
 ATAAGCAAGCTTTTCCAGCACCATCAGAGAAGAGTATGAAGAAACAGACAGTACCAAGGAAGAAGCAG
 CTAAGATGAAAAGGAATATGGAAGCTTGAAGGATTCACAAAAGATGATAACTCCAACCCAGGAGGAAA
 GACAGATGAACCCAAAGGAAAAACAGAAGCCTATTTGGAAGCCATCAGAAAAAATATTGAATGGTTGAAG
 AAACATGACAAAAGGGAATAAAGAAGATTATGACCTTTCAAAGATGAGAGACTTCATCAATAAACAAG
 CTGATGCTTATGTGGAGAAAGGCATCCTTGACAAGGAAGAAGCCGAGGCCATCAAGCGCATTTATAGCAG
 CCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228770 representing NM_001165257
 Red=Cloning site Green=Tags(s)

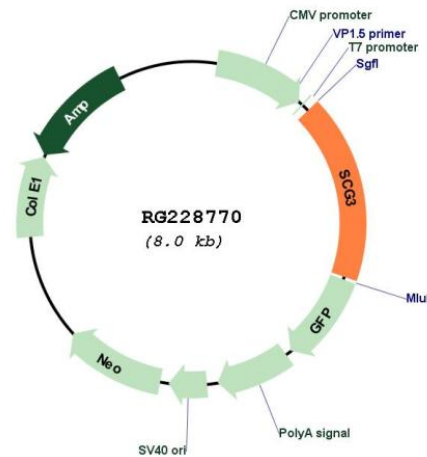
MGFLGTGTWILVVLPIQAFPKPGGSQDKSLHNREL SAERPLNEQIAEAEEDKIKKTYPPENKPGQSNYS
 FVDNLNLLKAITEKEKIEKERQSIRSSPLDNKLNVEDVDSTKNRKLIDDYDSTKSGLDHKFQDDPDGLHQ
 LDGTPLEAEDIVHKIAARIYEENDRAAFDKIVSKLLNLGLITESQAHTLEDEVAEVLQKLISKEANNYEE
 DPNKPTSWTENQAGKIPEKVTPMAAIQDGLAKGENDETVSNTLTLNGLERRTKTYSEDNFEELQYFPNF
 YALLKSIDSEKEAKEKETLITIMKTLIDFVKMMVKYGTISPEEGVSYLENLDEMIALQTKNKLEKNATDN
 ISKLFAPSEKSHEETDSTKEEAAMEKEYGSLKDKDSDNSNPGGKTDEPKGKTEAYLEAIRKNIEWLK
 KHKDKGNKEDYDL SKMRDFINKQADAYVEKGILDKEEAIAIKRIYSSL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


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:	<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:	<u>NM_001165257.1, NP_001158729.1</u>
RefSeq Size:	3313 bp
RefSeq ORF:	711 bp
Locus ID:	29106
UniProt ID:	<u>Q8WXD2</u>
Cytogenetics:	15q21.2
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>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]</p>