

Product datasheet for **MG207455**

Scg3 (BC024785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg3 (BC024785) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Scg3
Synonyms:	SgIII, 1B1075
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207455 representing BC024785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTTCTTTGGACCGCTCTTGATACTGGTGTGGTGCTCAACAGCGGCCAATTCAAGCTTTCC
 CCAAACCGAAGGCAGCCAAGACAAATCCTGCATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGA
 ACAGATCGCTGAGGCAGAGGCAGACAAGATTA AAAAGGCATTCCCTTCAGAAAGCAAGCCGAGTGAAGC
 AATTATTCTTCTGTGCATAAATTGAATCTGCTGAGGGCAATAACAGAAAAGGAAACCGTTGAGAAAGAGA
 GACAATCCATAAGAAGCCCCCGTTTGATAACCAACTGAACGTGGAAGACGCTGATTCAACCAAAAAATCG
 GAAACTGATCGATGAGTACGATTCACCAAGAGTGACTGGACCACAAGTTTCAAGATGACCCAGACGGC
 CTTTCATCAACTGGATGGAACCTTTAACTGCTGAAGACATCGTCCATAAGATTGCCACCAGGATTTATG
 AGGAGAACGACAGAGGAGTGTGGACAAAATTGTTTCTAAACTGCTGAATCTTGGCCTGACTACTGAAAG
 CCAGGCACATACTCTGGAAGATGAAGTAGCAGAAGCTTTACAAAACTGATTTCAAAGAGGCCAACAAAT
 TATGAGGAGACCTGGATAAACCACAAGCAGGACCGAGAATCAGGATGGGAAAAATACCAGAGAAAGTGA
 CTCGGGTGGCAGCAGTCCAAGATGGCTTCACTAACCGTGA AAAACGATGAGACGGTGTCTAACACCTTGAC
 CTTGTCCAATGGCTTGGAAAGGAGA ACTAACCCACAGGGAAGACGACTTTGAGGAACTCCAGTATTTCC
 CCAACTTCTATGCACTACTGACAAGCATCGACTCAGAAAAAGAAGCAAAAAGAGAAAGAAACCTGATCA
 CCATCATGAAGACATTGATTGACTTCGTGAAAAATGATGGTGAAATACGGTACGATATCTCCAGAGGAAGG
 CGTGTCTACCTTGA AAACTTGGATGAAACAATTGCTCTGCAGACCAAGAACAAGCTAGAAAAAATACT
 ACTGATAGCAAACTCCACCAGAGAAGAGTCAGGAAGAAACAGACAGTACCAAGGAAGAAGCCGCAAGA
 TGGAAAAGGAATACGGAAGCCTAAAAGACTCTACAAAAGATGATAACTCCAACCTAGGAGGAAAGACAGA
 TGAAGCCACAGGGAAGACAGAAGCCTACTTGGAAAGCATTAGAAAAAACATCGAATGGCTGAAGAAACAT
 AACAGAAGGGCAACAAAAGATTACGACCTTTCAAAGATGAGGGACTTTATCAACCAACAAGCTGACG
 CTTATGTGGAGAAGGGCATCCTCGACAAGGAAGGCCAACGCCATCAAACGCATCTACAGCAGCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207455 representing BC024785
 Red=Cloning site Green=Tags(s)

MGFLWTGSWILVVLNSGPIQAFPKPEGSQDKSLHNREL SAERPLNEQIAEAEADKIKKAFPSSESKPSES
 NYSSVDNLNLLRAITEKETVEKERQSIRSPPFDNQLNVEDADSTKNRKL IDEYDSTKSGLDHKFQDDPDG
 LHQLDGTPLTAEDIVHKIATRIYEENDRGVFDKIVSKLLNLGLITESQAHTLEDEVAEALQKLISKEANN
 YEETLDKPTSR TENQDGKIPEKVTPVA AVQDGF TNRENDET VSNLTL SNGLERRTNPHREDDFEELQYF
 PNFYALLTSIDSEKEAKEKETLITIMKTLIDFVKMMVKYGTISPEEGVSYLENLDETIALQTKNKLEKNT
 TDSKTPPEKSQEETDSTKEEA AKMEKEYSLKDSTKDDNSNLGGKTDEATGKTEAYLEAIRKNIEWLKKH
 NKKGNKEDYDLSKMRDFINQQADAYVEKGILDKEEANA I KRIYSSL

TRTRPLE – GFP Tag – V

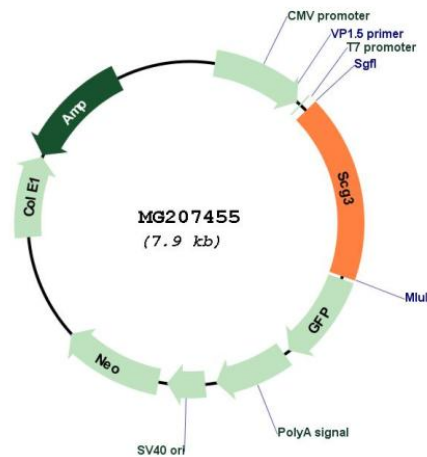
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC024785

ORF Size: 1400 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>BC024785</u> , <u>AAH24785</u>
RefSeq Size:	2175 bp
RefSeq ORF:	1400 bp
Locus ID:	20255
Cytogenetics:	9 42.32 cM
Gene Summary:	Member of the granin protein family that regulates the biogenesis of secretory granules (PubMed:16219686). Acts as a sorting receptor for intragranular proteins including chromogranin A/CHGA (PubMed:12388744). May also play a role in angiogenesis (PubMed:28330905). Promotes endothelial proliferation, migration and tube formation through MEK/ERK signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]