

Product datasheet for **MR207455**

Scg3 (NM_001164790) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg3 (NM_001164790) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scg3
Synonyms:	1B1075; AI385542; Chgd; SgIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207455 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGTTCTTTGGACCGGCTCTTGATACTGGTGTGGTGTCTCAACAGCGGCCAATTCAAGCTTTCC
 CCAAACCGAAGGCAGCCAAGACAAATCCCTGCATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGA
 ACAGATCGCTGAGGCAGAGGCAGACAAGATTA AAAAGGCATTCCCTTCAGAAAGCAAGCCGAGTGAAGC
 AATTATTCTTCTGTGATAAATTGAATCTGCTGAGGGCAATAACAGAAAAGGAAACCGTTGAGAAAGAGA
 GACAATCCATAAGAAGCCCCCGTTTGATAACCAACTGAACGTGGAAGACGCTGATTCAACCAAAAAATCG
 GAAACTGATCGATGAGTACGATTCACCAAGAGTGGACTGGACCACAAGTTTCAAGATGACCCAGACGGC
 CTTTCATCAACTGGATGGAACCTTTAACTGCTGAAGACATCGTCCATAAGATTGCCACCAGGATTTATG
 AGGAGAACGACAGAGGAGTGTGGACAAAATTGTTTCTAAACTGCTGAATCTTGGCCTGATCACTGAAAG
 CCAGGCACATACTCTGGAAGATGAAGTAGCAGAAGCTTTACAAAACTGATTTCAAAGAGGCCAACAAAT
 TATGAGGAGACCTGGATAAACCACAAGCAGGACCGAGAATCAGGATGGGAAAAATACCAGAGAAAGTGA
 CTCGGGTGGCAGCAGTCCAAGATGGCTTCACTAACCGTGAACAGATGAGACGGTGTCTAACACCTTGAC
 CTTGTCCAATGGCTTGGAAAGGAGAATAACCCACAGGGAAGACGACTTTGAGGAACTCCAGTATTTCC
 CCAACTTCTATGCACTACTGACAAGCATCGACTCAGAAAAAGAAAGCAAAAGAGAAAGAAACCTGATCA
 CCATCATGAAGACATTGATTGACTTCGTGAAAAATGATGGTGAATACGGTACGATATCTCCAGAGGAAGG
 CGTGTCTACCTTGAAAACCTGGATGAAACAATTGCTCTGCAGACCAAGAACAAGCTAGAAAAAATACT
 ACTGATAGCAAACTCCACCAGAGAAGAGTCAAGAAAGACAGACAGTACCAAGGAAGAGCCGCCAAGA
 TGGAAAAGGAATACGGAAGCCTAAAAGACTCTACAAAAGATGATAACTCCAACCTAGGAGGAAAGCAGAGA
 TGAAGCCACAGGGAAGACAGAAGCCTACTTGGAAAGCCATTAGAAAAAACATCGAATGGCTGAAGAAACAT
 AACAGAAGGGCAACAAAGAAAGATTACGACCTTTCAAAGATGAGGGACTTTATCAACCAACAAGCTGACG
 CTTATGTGGAGAAGGCCATCCTCGACAAGGAAGGCCAACGCCATCAAACGCATCTACAGCAGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207455 protein sequence
 Red=Cloning site Green=Tags(s)

MGFLWTGSWILVVLNSGPIQAFPKPEGSQDKSLHNREL SAERPLNEQIAEAEADKIKKAFPSKPSKPS
 NYSSVDNLLNLRRAITEKETVEKERQSI RSPFDNQLNVEDADSTKNRKL IDEYDSTKSGLDHKFQDDPDG
 LHQLDGTPLTAEDIVHKIATRIYEENDRGVFDKIVSKLLNLGLITESQAHTLEDEVAEALQKLISKEANN
 YEETLDKPTSRTENQDGKIPEKVTPVAAVQDGF TNRENDET VSNLTL SNGLERRTNPHREDDFEELQYF
 PNFYALLTSIDSEKEAKEKETLITIMKTLIDFVKMMVKYGTISPEEGVSYLENLDETIALQTKNKLEKNT
 TDSKTPPEKSQEETDSTKEEA AKMEKEYGSLKDSTKDDNSNLGGKTDEATGKTEAYLEAIRKNIEWLKKH
 NKKGNKEDYDL SKMRDFINQQADAYVEKGILDKEEANA IKRIYSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001164790

ORF Size: 1401 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_001164790.1](#), [NP_001158262.1](#)

RefSeq Size: 2192 bp

RefSeq ORF: 1401 bp

Locus ID: 20255

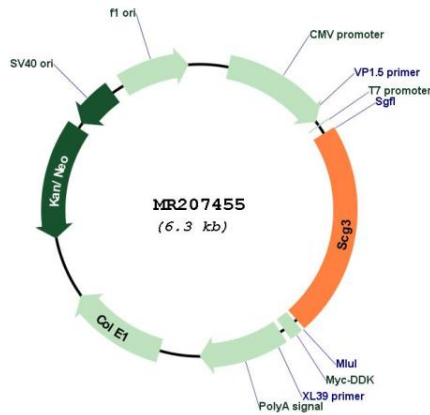
UniProt ID: [P47867](#)

Cytogenetics: 9 42.32 cM

MW: 52.8 kDa

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]

Product images:



Circular map for MR207455