

Product datasheet for **MC216479**

Scg3 (NM_009130) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg3 (NM_009130) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scg3
Synonyms:	1B1075; AI385542; Chgd; SgIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216479 representing NM_009130
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTTCTTTGGACCGCTCTTGATACTGGTGTGGTGTCTCAACAGCGGCCAATTCAAGCTTTCC
 CCAAACCGAAGGCAGCCAAGACAAATCCCTGCATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGA
 ACAGATCGCTGAGGCAGAGGCAGACAAGATTA AAAAGGCATTCCCTTCAGAAAGCAAGCCGAGTGAAGC
 AATTATTCTTCTGTGCATAAATTGAATCTGCTGAGGGCAATAACAGAAAAGGAAACCGTTGAGAAAGAGA
 GACAATCCATAAGAAGCCCCCGTTTGATAACCAACTGAACGTGGAAGACGCTGATTCAACCAAAAAATCG
 GAAACTGATCGATGAGTACGATTCACCAAGAGTGGACTGGACCACAAGTTTCAAGATGACCCAGACGGC
 CTTTCATCAACTGGATGGAACCTTTAACTGCTGAAGACATCGTCCATAAGATTGCCACCAGGATTTATG
 AGGAGAACGACAGAGGAGTGTGGACAAAATTGTTTCTAAACTGCTGAATCTTGGCCTGACTACTGAAAG
 CCAGGCACATACTCTGGAAGATGAAGTAGCAGAAGCTTTACAAAACTGATTTCAAAGAGGCCAACAAAT
 TATGAGGAGACCTGGATAAACCACAAGCAGGACCGAGAATCAGGATGGGAAAAATACCAGAGAAAAGTGA
 CTCGGTGGCAGCAGTCCAAGATGGCTTACTAAACCGTAAAAACGATGAGACGGTGTCTAACACCTTGAC
 CTTGTCCAATGGCTTGGAAAGGAGAATAACCCACAGGGAAGACGACTTTGAGGAACTCCAGTATTTCC
 CCAACTTCTATGCACTACTGACAAGCATCGACTCAGAAAAAGAAGCAAAAGAGAAAAGAAACCTGATCA
 CCATCATGAAGACATTGATTGACTTCGTGAAAAATGATGGTGAATACGGTACGATATCTCCAGAGGAAGG
 CGTGTCTACCTTGAAAACCTGGATGAAACAATTGCTCTGCAGACCAAGAACAAGCTAGAAAAAACTACT
 ACTGATAGCAAAAGTAACTATCCAGCTCCACCAGAGAAGAGTCAGGAAGAAACAGACAGTACCAAGG
 AAGAAGCCGCAAGATGGAAAAGGAATACGGAAGCCTAAAAGACTCTACAAAAGATGATAACTCCAACCT
 AGGAGGAAAGACAGATGAAGCCACAGGGAAGACAGAAGCCTACTTGGAAAGCCATTAGAAAAAACATCGAA
 TGGCTGAAGAAACATAACAAGAAGGCAACAAAGAAGATTACGACCTTTCAAAGATGAGGGACTTTATCA
 ACCAACAAAGCTGACGCTTATGTGGAGAAGGGCATCCTCGACAAGGAAGGCCAACGCCATCAAACGCAT
 CTACAGCAGCCT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_009130

Insert Size: 1416 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_009130.3](#), [NP_033156.1](#)

RefSeq Size: 2207 bp

RefSeq ORF: 1416 bp

Locus ID: 20255

UniProt ID: [P47867](#)

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).