

Product datasheet for **MC217744**

Scg3 (NM_001164790) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg3 (NM_001164790) 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: >MC217744 representing NM_001164790
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGTTCTTTGGACCGCTCTTGATACTGGTGTGGTGTCTCAACAGCGGCCAATTCAAGCTTTCC
CCAAACCGAAGGCAGCCAAGACAAATCCCTGCATAATAGAGAATTAAGTGCAGAAAGACCTTTGAATGA
ACAGATCGCTGAGGCAGAGGCAGACAAGATTAAGAAAGGCATTCCCTTCAGAAAGCAAGCCGAGTGAAGC
AATTATTCTTCTGTGATAAATTGAATCTGCTGAGGGCAATAACAGAAAAGGAAACCGTTGAGAAAGAGA
GACAATCCATAAGAAGCCCCCGTTTGATAACCAACTGAACGTGGAAGACGCTGATTCAACCAAAAAATCG
GAAACTGATCGATGAGTACGATTCACCAAGAGTGGACTGGACCACAAGTTTCAAGATGACCCAGACGGC
CTTCATCAACTGGATGGAACCTTTAACTGCTGAAGACATCGTCCATAAGATTGCCACCAGGATTTATG
AGGAGAACGACAGAGGAGTGTGGACAAAATTGTTTCTAAACTGCTGAATCTTGGCCTGACTACTGAAAG
CCAGGCACATACTCTGGAAGATGAAGTAGCAGAAGCTTTACAAAACTGATTTCAAAGAGGCCAACAAAT
TATGAGGAGACCTGGATAAACCACAAGCAGGACCGAGAATCAGGATGGGAAAAATACCAGAGAAAGTGA
CTCCGGTGGCAGCAGTCCAAGATGGCTTACTAACCGTGAACGATGAGACGGTGTCTAACACCTTGAC
CTTGTCGAATGGCTTGGAAAGGAGAATAACCCACAGGGAAGACGACTTTGAGGAACTCCAGTATTTCC
CCCAACTTCTATGCACTACTGACAAGCATCGACTCAGAAAAAGAAGCAAAAGAGAAAGAAACCTGATCA
CCATCATGAAGACATTGATTGACTTCGTGAAAAATGATGGTGAATACGGTACGATATCTCCAGAGGAAGG
CGTGTCTACCTTGAACCTTGGATGAAACAATTGCTCTGCAGACCAAGAACAAGCTAGAAAAAAATACT
ACTGATAGCAAACTCCACCAGAGAAGAGTCAGGAAGAAACAGACAGTACCAAGGAAGAAGCCGCAAGA
TGGAAAAGGAATACGGAAGCCTAAAAGACTCTACAAAAGATGATAACTCCAACCTAGGAGGAAAGACAGA
TGAAGCCACAGGGAAGACAGAAGCCTACTTGGAAAGCCATTAGAAAAAACATCGAATGGCTGAAGAAACAT
AAACAAGAAGGCAACAAAGAAGATTACGACCTTTCAAAGATGAGGGACTTTATCAACCAACAAGCTGACG
CTTATGTGGAGAAGGGCATCCTCGACAAGGAAGGCCAACGCCATCAAACGCATCTACAGCAGCTGTG
A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001164790

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

RefSeq Size: 2192 bp

RefSeq ORF: 1401 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 (2) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to variant 1.