

Product datasheet for **RR207064**

Scg3 (NM_053856) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg3 (NM_053856) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scg3
Synonyms:	SgIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207064 representing NM_053856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGTTCTTTGGACAGGCTCTTGATACTGGTGTGGTGTCTCAACAGCGGCCCAATTCAAGCTTTCC
 CCAAACCGAAGGCAGCCAAGACAAATCCTGCATAATAGAGAATTGAGTGCAGAGAGACCTTGAATGA
 GCAGATCGCTGAGGCAGAGGCAGACAAGATTAAGACATACCCCTCAGAAAGCAAGCCAAAGTAAAGC
 AATTTTTCTTCGGTTCGATAAATTGAATCTGCTAAAGGCGATAACGAAAAAGGAAACAGTTGAGAAAGCCA
 AGCAATCCATAAGAAGCTCCCGTTTGATAACAGACTGAATGTGGACGATGCCGATTCAACTAAAAATCG
 GAAGCTGACCGACGAGTACGACTCCACTAAGAGTGGACTGGACCGCAAGGTTCAAGATGACCCAGATGGC
 CTCATCAACTGGATGGAACCTTTAACTGCTGAAGACATTGTCCATAAAATTGCCACCAGGATTTATG
 AGGAGAACGACAGAGGAGTGTGGACAAGATTGTCTCTAACTGCTGAATCTCGGCTAATCACTGAAAG
 CCAGGCACATACTCTAGAAGATGAAGTAGCAGAGGCTTTACAAAAATTGATTTCAAAGAGGCCAACAAAT
 TATGAGGAGGCCCGGAAAAACCCACAAGCAGGACCGAGAATCAGGATGGGAAAAATACCGGAGAAAGTGA
 CTCCAGTGGCAGCAACCAAGATGGCTTTACTAACCGTAAAAATGATGACACAGTATCGAACACCTTGAC
 CTTGTCCAACGGCTTGAAAGGAGAACGAAACCCACAGGGACGATGACTTTGAGGAGCTCCAGTATTTCC
 CCAACTTCTATGCACTACTGACAAGCATCGACTCAGAAAAAGAAGCAAAAGAGAAAGAAACCTGATCA
 CCATCATGAAGACGTTGATTGACTTTGTGAAAAATGATGGTGAATACGGTACAATATCTCCAGAGGAAGG
 CGTTTCTTACCTTGAAAACCTGGATGAAACCATTGCTCTGCAGACCAAGAACAAGCTAGAAAAAATACC
 ACTGACAGCAAAAGCAAGCTTTTCCAGCTCCGCCAGAGAAGAGTACGAAAGAACAGACAGTACCAAGG
 AGGAAGCCGCAAGATGGAGAAGGAATACGGAAGCCTCAAAGACTCCACAAAAGACGATAACTCCAACCT
 CGGAGGAAAGACAGATGAAGCCAAAGGAAAGCAAGCAAGCCTACTTGAAGCCATTAGAAAAAACATCGAG
 TGGCTGAAGAAGCAACAAGAAGGCAACAAAGAAGATTACGACCTTTCAAAGATGAGGGACTTATCA
 ACCAACAGGCTGATGCTTATGTGGAGAAAGGCATCCTGGATAAGGAAGAAGCCACGCCATCAAACGCAT
 CTACAGCAGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207064 representing NM_053856
 Red=Cloning site Green=Tags(s)

MGFLWTGSWILVVLNSGPIQAFPKPEGSQDKSLHNRELSAERPLNEQIAEAEADKIKKTYPSESKPSES
 NFSSVDNLLKAI TEKETVEKAKQSIRSSPFDNRLNVDDADSTKNRKL TDEYDSTKSGLDRKVQDDPDG
 LHQLDGTPLTAEDIVHKIATRIYEENDRGVFDKIVSKLLNLGLITESQAHTLEDEVAEALQKLISKEANN
 YEEAPEKPTSR TENQDGKIPEKVTPVAATQDGF TNRENDT VSNLTL SNGLERRTNPHRDDD FEELQYF
 PNFYALLTSIDSEKEAKEKETLITIMKTLIDFVKMMVKYGTISPEEGVSYLENLDETIALQTKNKLEKNT
 TDSKSKLFPAPPEKSHEETDSTKEEA AKMEKEYGSLKDKDSTKDDNSNLGGKTDEAKGKTEAYLEAIRKNIE
 WLKHKHKKGNKEDYDLSKMRDFINQQADAYVEKGILDKEEANA IKRIYSSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

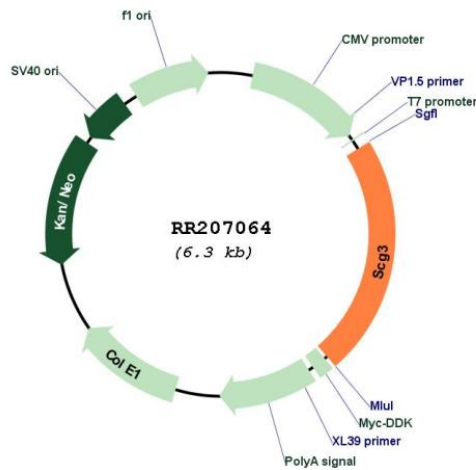
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053856

ORF Size:

1413 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_053856.2](#), [NP_446308.1](#)

RefSeq Size: 2144 bp

RefSeq ORF: 1416 bp

Locus ID: 116635

UniProt ID: [P47868](#)

Cytogenetics: 8q24

MW: 53.2 kDa

Gene Summary: component of intracellular dense core vesicles [RGD, Feb 2006]