

Product datasheet for MR200869

Sct (BC048484) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sct (BC048484) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Sct

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR200869 representing BC048484

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200869 representing BC048484

Red=Cloning site Green=Tags(s)

MEPPLPTPMLLLLLLLSSSAALPAPPRTPRHSDGMFTSELSRLQDSARLQRLLQGLVGKRSEQDTENIP ENSLARSKPLEDQLCLLWSNTQTLQDCPLSFHRLLPRLSLDGSLSLWLPPGPRSAVDRSEWTETTRPPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



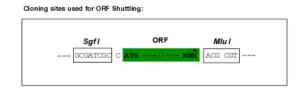
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

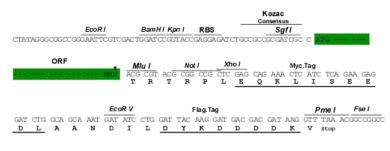
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: BC048484 **ORF Size:** 417 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: <u>BC048484.1</u>

RefSeq Size: 564 bp RefSeq ORF: 419 bp



Locus ID: 20287 Cytogenetics: 7 F5

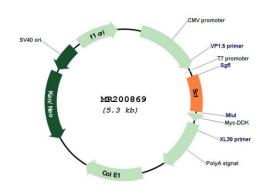
MW: 20.7 kDa

Gene Summary: This gene encodes the precursor of a gastrointestinal peptide hormone of the secretin-

glucagon family. The encoded protein is secreted as a prohormone that undergoes

proteolytic processing to generate a mature peptide hormone. The mature peptide regulates secretion of gastric acid, biocarbonate ions from pancreatic and biliary duct epithelia and water homeostasis in the gastrointestinal system. Mice lacking the encoded protein display decreased survival of neuroprogenitor cells during early postnatal period and impaired longterm potentiation and spatial learning in adulthood. Alternative splicing results in multiple transcript variants encoding different isoforms. All of these isoforms may be processed in a similar manner to generate the mature peptide hormone. [provided by RefSeq, Jul 2015]

Product images:



Circular map for MR200869