

## Product datasheet for **MG200869**

### Sct (BC048484) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sct (BC048484) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Sct  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200869 representing BC048484  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCTCCGCTGCCACGCCGATGCTACTGCTGTTGCTGCTGCTGCTCTCCAGTTCGCCCGCTCC  
CTGCACCTCCCAGGACCCCAAGACACTCAGACGGAATGTTACCAGCGAGCTCAGCCGTTGCAGGACAG  
TGCCAGGCTGCAGCGCTGCTGCAGGGTCTGGTGGGAAGCGCAGCGAGCAGGACACAGAAAATATCCCA  
GAGAACAGCCTGGCCCGTCCAAGCCCTTAGAGGACCAGCTCTGCTTGTGTGGTCAACACTCAGACCC  
TACAGGACTGTCCCTCTCCTTCCACAGGCTTCTGCCAGGCTGTCCCTGGATGGTCCCTGTCTCTCTG  
GCTGCCTCTGGACCAAGTCTGCTGTTGATCGTTCAGAGTGGACTGAAACAACCCAGGCCACCCAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200869 representing BC048484  
Red=Cloning site Green=Tags(s)

MEPPLPTMLLLLLLLLSSAALPAPPRTPRHSDGMFTSEL SRLQDSARLQRLQLVGRSEQDTENIP  
ENSLARSKPLEDQLCLLWSNTQTLQDCPLSFHRLLPRLSLDGSLSLWLP GPRSAVDRSEWTETTRPPR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



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.

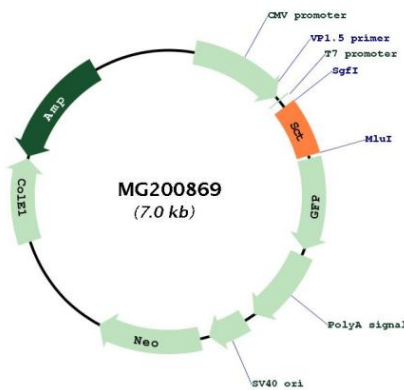
RefSeq: [BC048484.1](#)

RefSeq Size: 564 bp

RefSeq ORF: 419 bp  
 Locus ID: 20287  
 Cytogenetics: 7 F5

**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, bicarbonate 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 long-term 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 MG200869