

## Product datasheet for **MC209359**

### Sct (NM\_011328) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sct (NM\_011328) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sct  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209359 representing NM\_011328  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCCTCCGCTGCCACGCCGATGCTACTGCTGTTGCTGCTGCTGCTCTCCAGTCCGCCGCGCTCC  
CTGCACCTCCAGGACCCCAAGACACTCAGACGGAATGTTACCAGCGAGCTCAGCCGCTTGCAGGACAG  
TGCCAGGCTGCAGCGCTGCTGCAGGGTCTGGTGGGAAGCGCAGCGAGCAGGACACAGAAAATATCCCA  
GAGAACAGCCTGGCCCGGTCCAAGCCCTTAGAGGACCAGCTCTGCTTGTGTGGTGAACACTCAGACCC  
TACAGGACTGGCTTCTGCCAGGCTGTCCCTGGATGGTCCCTGTCTCTCTGGCTGCCTCTGGACCAAG  
GTCTGCTGTTGATCGTTCAGAGTGGACTGAAACAACCAGGCCACCCAGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011328  
**Insert Size:** 402 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_011328.3](#), [NP\\_035458.1](#)

**RefSeq Size:** 518 bp

**RefSeq ORF:** 402 bp

**Locus ID:** 20287

**UniProt ID:** [Q08535](#)

**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]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. It encodes a shorter protein (isoform 2), compared to isoform 1.