

Product datasheet for MC225859

Sct (NM_001287171) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sct (NM_001287171) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sct
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC225859 representing NM_001287171

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCTCCGCTGCCACGCCGATGCTACTGCTGTTGCTGCTGCTGCTCTCCAGTTCCGCCGCGCTCC
 CTGCACCTCCCAGGACCCCAAGACACTCAGACGGAATGTTACCAGCGAGCTCAGCCGCTGCAGGACAG
 TGCCAGGCTGCAGCGCTGCTGCAGGGTCTGGTGGGAAGCGCAGCGAGCAGGACACAGAAAATATCCCA
 GAGAACAGCCTGGCCCGGTCCAAGCCCTTAGAGGACCAGCTCTGCTTGTGTGGTCAACACTCAGACCC
 TACAGGACTGTCCCTCTCCTTCCACAGGCTTCTGCCAGGCTGTCCCTGGATGGGTCCCTGTCTCTCTG
 GCTGCCTCCTGGACCAAGGTCTGCTGTTGATCGTTCAGAGTGGACTGAAACAACCGGCCACCCAGAT**G**A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001287171
Insert Size: 420 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).
OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001287171.1, NP_001274100.1</u>
RefSeq Size:	536 bp
RefSeq ORF:	420 bp
Locus ID:	20287
Cytogenetics:	7 F5
Gene Summary:	<p>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 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>