

Product datasheet for **MR228070**

Sct (NM_001287171) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sct (NM_001287171) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sct
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228070 representing NM_001287171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCTCCGCTGCCACGCCGATGCTACTGCTGTTGCTGCTGCTGCTCTCCAGTTCCGCCGCGCTCC
 CTGCACCTCCCAGGACCCCAAGACACTCAGACGGAATGTTACCAGCGAGCTCAGCCGTTGCAGGACAG
 TGCCAGGCTGCAGCGCTGCTGCAGGGTCTGGTGGGAAGCGCAGCGAGCAGGACACAGAAAATATCCCA
 GAGAACAGCCTGGCCCGGTCCAAGCCCTTAGAGGACCAGCTCTGCTTGCTGTGGTGAACACTCAGACCC
 TACAGGACTGTCCCTCTCCTTCCACAGGCTTCTGCCAGGCTGTCCCTGGATGGGTCCCTGTCTCTCTG
 GCTGCCTCCTGGACCAAGGTCTGCTGTTGATCGTTCAGAGTGGACTGAAACAACCAGGCCACCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228070 representing NM_001287171
 Red=Cloning site Green=Tags(s)

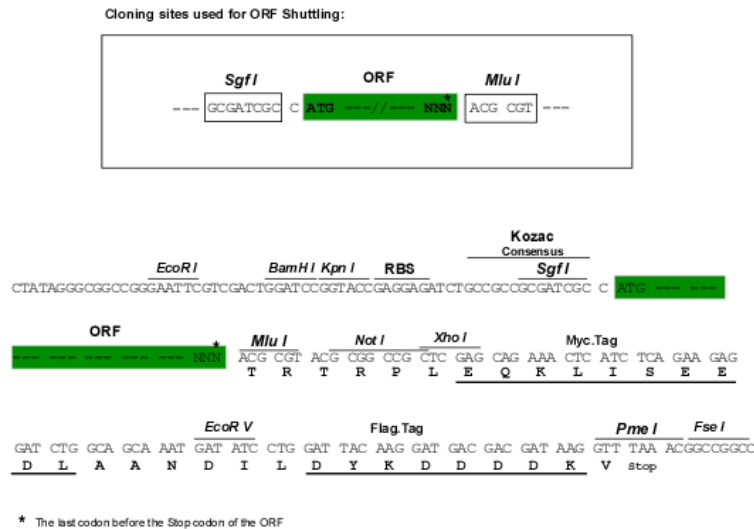
MEPPLPTMLLLLLLLLSSSAALPAPRTPRHSDGMFTSELSRLQDSARLQRLQLGLVGKRSEQDTENIP
 ENSLARSKPLEDQLCLLWSNTQLQDCPLSFHRLLPRLSLDGSLSLWLPGPSRAVDRSEWTETTRPPR

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001287171

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.

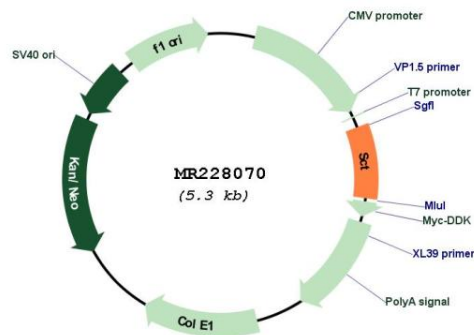
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001287171.1](#), [NP_001274100.1](#)

RefSeq Size: 536 bp
 RefSeq ORF: 420 bp
 Locus ID: 20287
 Cytogenetics: 7 F5
 MW: 16 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 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 MR228070