

Product datasheet for **RC218129**

Secretin (SCT) (NM_021920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Secretin (SCT) (NM_021920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Secretin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218129 representing NM_021920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCCGGCCCTCCTCTGCTGCTGCTCCTCGGGGGCTCCGCCGCGCCCCGCGCCCCCA
GGGCCCCGCGACACTCAGACGGGACGTTACCAGCGAGCTCAGCCGCCTGCGGGAGGGCGCGCGCTCCA
GCGGCTGCTACAGGGCCTGGTGGGAAGCGCAGCAGCAGGACGAGAGAACAGCATGGCCTGGACCAGG
CTCAGCGCGGGTCTGCTCTGCCCGTCAGGGTCCAACATGCCATCCTGCAGGCCTGGATGCCCTGGACG
GGACCTGGTCTCCCTGGCTGCCCGCTGGGCCTATGGTTTCAGAACAGCTGGCGCTGCTGCAGAAGGAAC
CTTGCGGCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC218129 representing NM_021920 Red=Cloning site Green=Tags(s)
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MAPRLLLLLLLLLGGSAARPAPPRARRHSDGFTTSELRLREGARLQRLQLVGRSEQDAENSMWTR
LSAGLLCPSGSNMPLILQAWPLDGTWSPWLPPGPMVSEPAGAAEGTLRPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mg2991_b05.zip
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Restriction Sites:	SgfI-MluI
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Cloning Scheme:



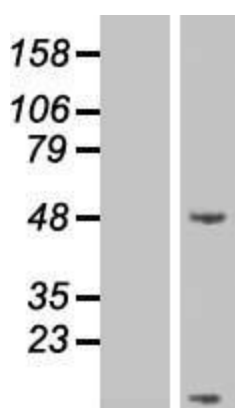
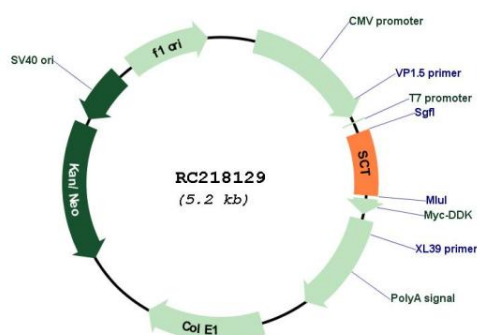
ACCN:	NM_021920
ORF Size:	363 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	<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:	NM_021920.4
RefSeq Size:	514 bp

RefSeq ORF: 366 bp
 Locus ID: 6343
 UniProt ID: [P09683](#)
 Cytogenetics: 11p15.5
 Protein Families: Druggable Genome, Secreted Protein

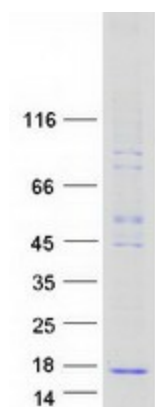
MW: 12.8 kDa

Gene Summary: This gene encodes a member of the glucagon family of peptides. The encoded preproprotein is secreted by endocrine S cells in the proximal small intestinal mucosa as a prohormone, then proteolytically processed to generate the mature peptide hormone. The release of this active peptide hormone is stimulated by either fatty acids or acidic pH in the duodenum. This hormone stimulates the secretion of bile and bicarbonate in the duodenum, pancreatic and biliary ducts. [provided by RefSeq, Feb 2016]

Product images:



Western blot validation of overexpression lysate (Cat# [LY411887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218129 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCT protein (Cat# [TP318129]). The protein was produced from HEK293T cells transfected with SCT cDNA clone (Cat# RC218129) using MegaTran 2.0 (Cat# [TT210002]).