

## Product datasheet for **RG218129**

### 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: TurboGFP  
 Symbol: Secretin  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG218129 representing NM\_021920  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCCGGCCCTCCTGCTGCTGCTGCTGCTCCTCGGGGGCTCCGCCGCGCCCCGCGCCCCCA  
 GGGCCCGCGACACTCAGACGGGACGTTACCAGCGAGCTCAGCCGCCTGCGGGAGGGCGCGCGCTCCA  
 GCGGCTGCTACAGGGCCTGGTGGGAAGCGCAGCAGCAGGACGAGAGAACAGCATGGCCTGGACCAGG  
 CTCAGCGCGGGTCTGCTCTGCCCGTCAGGGTCCAACATGCCATCCTGCAGGCCTGGATGCCCTGGACG  
 GGACCTGGTCTCCCTGGCTGCCCGCTGGGCCTATGGTTTCAGAACAGCTGGCGCTGCTGCAGAAGGAAC  
 CTTGCGGCCAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218129 representing NM\_021920  
 Red=Cloning site Green=Tags(s)  
 MAPRLLLLLLLLLGGSAARPAPPRARRHSDGFTFTSELSRLREGARLQRLQLGLVGRSEQDAENSMWTR  
 LSAGLLCPSGSNMPILQAWMPLDGTWSPWLP GPMVSEPAGAAAEGTLRPR

**TR**TRPLE - GFP Tag - V

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:

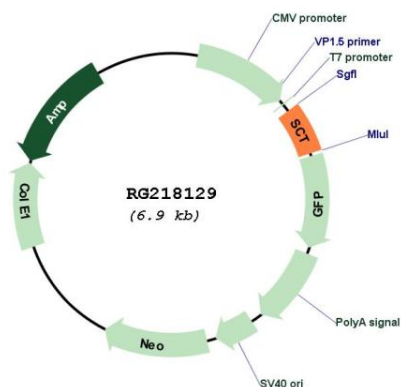
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_021920.4](#)

RefSeq Size: 514 bp

RefSeq ORF:	366 bp
Locus ID:	6343
UniProt ID:	<a href="#">P09683</a>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, Secreted Protein
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:



Circular map for RG218129