

## Product datasheet for **RG207786**

### SCTR (NM\_002980) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCTR (NM_002980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCTR
Synonyms:	SR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207786 representing NM_002980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGTCCCCACCTGTCGCCGCGCTGCAGCAGCTACTACTGCCGGTGCTGCTCGCCTGCGCCGCGCACT  
CGACTGGAGCCCTTCCCCGACTATGTGACGTGCTACAAGTGCTGTGGGAAGAGCAAGACCAGTGCCTGCA  
GGAACCTCCAGAGAGCAGACAGGAGACCTGGGCACGGAGCAGCCAGTGCCAGGTTGTGAGGGGATGTGG  
GACAACATAAGCTGCTGGCCCTTCTGTGCCGGGCCGGATGGTGGAGGTGGAATGCCCGAGATTCTCC  
GGATGCTCACCAGCAGAAATGGTTCCTTGTTCGAAACTGCACACAGGATGGCTGGTCAGAAACCTTCCC  
CAGGCCTAATCTGGCCTGTGGCGTTAATGTGAACGACTCTTCCAACGAGAAGCGGCACTCCTACCTGCTG  
AAGCTGAAAGTCATGTACACCGTGGGCTACAGCTCCTCCCTGGTCATGCTCCTGGTGCGCCCTTGGCATCC  
TCTGTGCTTTCGGAGGCTCCACTGCACTCGCAACTACATCCACATGCACCTGTTCTGTCCTTTCATCCT  
TCGTGCCCTGTCCAATTTCATCAAGGACGCCGTGCTCTTCTCCTCAGATGATGTCACCTACTGCGATGCC  
CACAGGGCGGGCTGCAAGCTGATCATGGTGCTGTTCCAGTACTGCATCATGGCCAATACTCCTGGCTGC  
TGGTGAAGGCCCTACCTTACACACTCCTCGCCATCTCCTTCTCTGAAAGAAAGTACCTCCAGGG  
ATTTGTGGCATTTCGGATGGGTTCTCCAGCCATTTTGTGCTTTGTGGGCTATTGCCAGACACTTTCTG  
GAAGATGTTGGTGCTGGGACATCAATGCCAAGCATCCATCTGGTGGATCATTCTGGTCTGATCC  
TCTCCATCCTGATTAATTTTCATCCTTTTCATAAACATTCTAAGAATCCTGATGAGAAAACCTAGAACCCA  
AGAAACAAGAGGAAATGAAGTCAGCCATTATAAGCGCCTGGCCAGGTCCACTCCTCTGCTGATCCCCCTC  
TTTGGCATCCACTACATCGTCTTCGCTTCTCCCCAGAGGACGCTATGGAGATCCAGCTGTTTTTTGAAC  
TAGCCCTTGGCTCATTCCAGGGACTGGTGGTGGCCGCTCTACTGCTTCTCAACGGGGAGGTGCAGCT  
GGAGGTTTCAAGAAGTGGCAGCAATGGCACCTCCGTGAGTTCCTCAACGGGGAGGTGCAGCT  
GGAGGTTTCAAGAAGTGGCAGCAATGGCACCTCCGTGAGTTCCTCAACGGGGAGGTGCAGCT  
AACAGCACCAAGGCCAGCCACTTGGAGCAGAGCCAGGGCACCTGCAGGACCAGCATCATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207786 representing NM\_002980  
 Red=Cloning site Green=Tags(s)

MRPHLSPPLQQLLPVLLACAAHSTGALPRLCDVLQVLWEEQDQCLQELSREQTGDLGTEQPVPVPGCEGMW  
 DNI SCWPSSVPGRMVEVECPFLRMLTSRNGSLFRNCTQDQGWSETFPRPNLACGVNVNDSSNEKRHSYLL  
 KLVKMYTVGYSSSLVMLLVALGILCAFRRHLHCTRNYIHMHLFVSFILRALSNFIKDAVLFSSDDVTYCD  
 HRAGCKLIMVLFQYICIMANYSWLLVEGLYLHTLLAISFFSERKYLQGFVAFGWGSPAIFVALWAIARHFL  
 EDVGCWDINANASIWIIIRGPVILSILINFILFINILRILMRKLRTQETRGNEVSHYKRLARSTLLLIPL  
 FGIHYIVFAFSPEDAMEIQLFFELALGSFQGLVVAVLYCFLNGEVQLEVQKKWQWHLREFPLHPVAFS  
 NSTKASHLEQSQGT CRTSII

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002980

**ORF Size:** 1320 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\\_002980.1](#), [NP\\_002971.1](#)

**RefSeq Size:** 1703 bp

**RefSeq ORF:** 1323 bp

**Locus ID:** 6344

**UniProt ID:** [P47872](#)

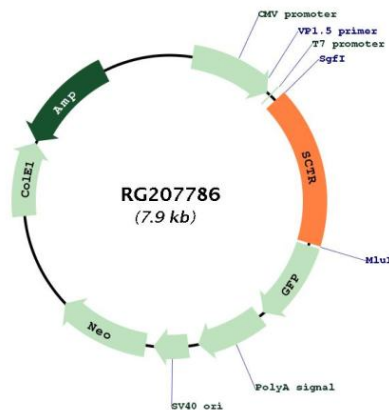
**Cytogenetics:** 2q14.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** The protein encoded by this gene is a G protein-coupled receptor and belongs to the glucagon-VIP-secretin receptor family. It binds secretin which is the most potent regulator of pancreatic bicarbonate, electrolyte and volume secretion. Secretin and its receptor are suggested to be involved in pancreatic cancer and autism. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG207786