

Product datasheet for **RG211799**

Somatostatin Receptor 5 (SSTR5) (NM_001053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Somatostatin Receptor 5 (SSTR5) (NM_001053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Somatostatin Receptor 5
Synonyms:	SS-5-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211799 representing NM_001053 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCTGTTCCACGCTCCACGCCAGCTGGAACGCCTCCTCCCGGGGGCTGCCTCTGGAGGCG
GTGACAACAGGACGCTGGTGGGGCCGGCCCTCGGCAGGGGCCCGGGCGGTGCTGGTCCCGTGTGTGTA
CCTGCTGGTGTGTGCGGCCGGGCTGGGCGGAACACGCTGGTCACTACGTGGTGTGCGCTTCGCCAAG
ATGAAGACCGTCACCAACATCTACATTCTAACCTGGCAGTGGCCGACGTCCTGTACATGCTGGGGCTGC
CTTTCCTGGCCACGACAACGCCGCTCTTCTGGCCCTTCGGCCCGTCTGTGCCCTGGTCATGAC
GCTGGACGGCGTCAACCAGTTCACCAAGTCTTCTGCCTGACAGTCATGAGCGTGGACCGCTACCTGGCA
GTGGTGCACCCGCTGAGCTCGGCCCGCTGGCGCCCGCGTGTGGCCAAGCTGGCGAGCGCCGCGGCT
GGGTCTGTCTGTGTCATGTGCGTGCCTCCTGGTGTTCGCGGACGTGCAGGAGGGCGGTACCTGCAA
CGCCAGCTGGCCGGAGCCCGTGGGGCTGTGGGGCGCCGTCTTCATCATCTACACGGCCGTGCTGGGCTTC
TTCGCGCCGCTGCTGGTCACTGCTGTGCTACCTGCTCATCGTGGTGAAGGTGAGGGCGGGCGGCTGC
GCGTGGGCTGCGTGGCGGGCGCTCGGAGCGGAAGGTGACCGCATGGTGTGGTGGTGGTGGTGGTGGT
TGCGGGATGTTGGCTGCCCTTCTTACCGTCAACATCGTCAACCTGGCCGTGGCGCTGCCACAGGAGCC
GCCTCCGCCGGCCTCTACTTCTCGTGGTATCCTCCTACGCCAACAGCTGTGCCAACCCCGTCTCTCT
ACGGCTTCTCTGACAACTTCGCCAGAGCTTCCAGAAGGTTCTGTGCCTCCGCAAGGGCTCTGGTGC
CAAGGACGCTGACGCCACGGAGCCGCTCCAGACAGGATCCGGCAGCAGCAGGAGCCACGCCCGCCGCG
CACCGCGCCGAGCCAACGGGCTTATGCAGACCAGCAAGCTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

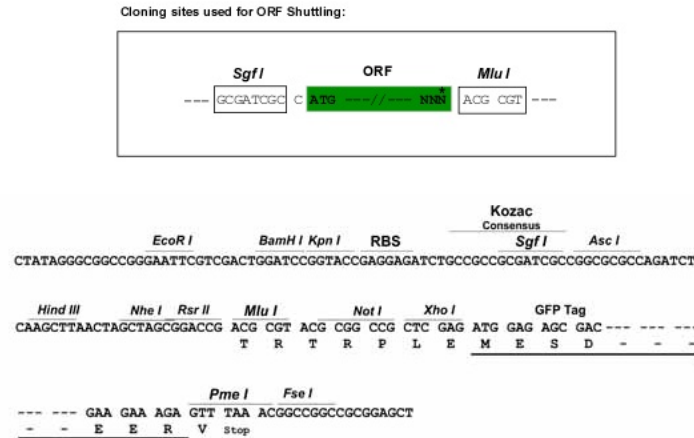
Protein Sequence: >RG211799 representing NM_001053
Red=Cloning site Green=Tags(s)

```
MEPLFPASTPSWNASSPGAASGGDNRTL VGPAPSAGARAVLVPVLYLLVCAAGLGGNTLVIYVVLRFK
MKTVTNIYILNLAVADVLYMLGLPFLATQNAASFWPFGPVL CRLVMTLDGVNQFTSVFCLTVMSVDRYLA
VVHPLSSARWRRPRVAKLASAAAWVLSLCMSLPLLVFADVQEGGTCNASWPEPVGLWGAVFIIYTAVLGF
FAPLLVICLCYLLIVVKVRAAGVRVGCVRRRSEKRVTRMVLVVVLVVFAGCWLPFFTVNIVNLAVALPQEP
ASAGLYFFVVILSYANSCANPVLYGFLSDNFRQSFQKVLCLRKGS GAKDADATEPRPDRI RQQQEATPPA
HRAAANGLMQTSKL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001053

ORF Size: 1092 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_001053.1](#), [NP_001044.1](#)

RefSeq Size: 1095 bp

RefSeq ORF: 1095 bp

Locus ID: 6755

UniProt ID: [P35346](#)

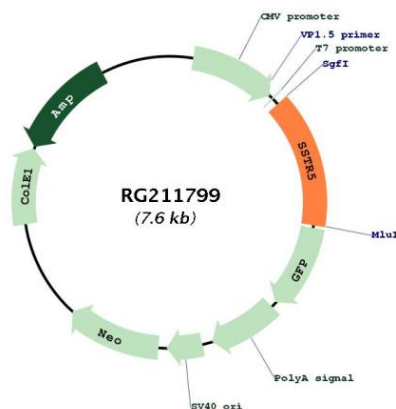
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Somatostatin and its related peptide cortistatin exert multiple biological actions on normal and tumoral tissue targets by interacting with somatostatin receptors (SSTRs). The protein encoded by this gene is one of the SSTRs, which is a multi-pass membrane protein and belongs to the G-protein coupled receptor 1 family. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase, and different regions of this receptor molecule are required for the activation of different signaling pathways. A mutation in this gene results in somatostatin analog resistance. Alternatively spliced transcript variants have been identified in this gene.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RG211799