

Somatostatin Receptor 1 (SSTR1) (NM_001049) Human Tagged ORF Clone

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Somatostatin Receptor 1
Synonyms:	SRIF-2; SS-1-R; SS1-R; SS1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ATGTTCCCAATGGCACCGCCTCCTCTCCTCTCCTCTAGCCCCAGCCGGGAGCTGCGCGAAG
GCGGCGGAGCAGGGGGCCCGGGGCGGCGCTGCGGACGGCATGGAGGAGCCAGGGCGAAATGCGTCCCA
GAACGGGACCTTGAGCGAGGGCCAGGGCAGCGCCATCTGATCTCTTTATCTACTCCGTGGTGTGCCTG
GTGGGGCTGTGTGGGAACCTATGTGTCATCTACGTGATCCTGCGCTATGCCAAGATGAAAGACGCCACCA
ACATCTACATCCTAAATCTGGCCATTGCTGATGAGTGCTCATGCTCAGCGTGCCCTTCTAGTCACTC
CACGTGTGTTGCCCATCTGGCCCTTCGGTGCGCTGCTGCTGCGCGCTCGTGCTCAGCGTGGACCGGTCAC
ATGTTCAACGACATCTACTGTCTGACTGTGCTACGCTGACCGGACCGCTAGCTGGCGGTGGTGCATCCCTCA
AGCGGCGCCGCTACGCGCGGGCCACGCTGCCAAGGTAGTAAACCTGGGCGTGTGGGTGCTATCTGCTGCT
CGTCATCTGCCCATCGTGGTCTTCTCTCGCACCGCGGCCAACAGCGACGGCAGCGTGGCTTGAACATG
CTCATGCCAGAGCCCGCTCAACGCTGGCTGGTGGGCTTCGTGTTGTACACATTTCTCATGGGCTTCTGCTG
TGCCCGTGGGGCTATCTGCTGTGCTACGTGCTCATATTGCTAAGATGCGCATGGTGGCCCTCAAGGC
CGGCTGGCAGCAGCGCAAGCGCTCGGAGCGCAAGATCACTTAATGGTGATGATGGTGGTATGGTGT
GTATCTGCTGGATGCCTTTCTACGTGGTGACGTGGTCAACGTGTTTGTCTGAGCAGGACGACGCCACGG
TGAGTCAGCTGTGGTTCATCTCGGCTATGCCAACAGCTGCGCCAACCCCATCCTCTATGGCTTCTCTC
AGACAACCTCAAGCGCTCTTCCAACGACCTCATGCTCAGTGATGGATGGACAGCCCGCGGAGGAGCCG
GTTGACTATTACGCCACCGCGCTCAAGAGCGTGCCTACAGTGTGGAGAACTTCAACCTGAGAACCTGG
AGTCCGGCGGCGCTCTTCGTAATGGCACTGCACGTCCCGGATCAGGACGCTC



Protein Sequence: >RG207589 representing NM_001049
Red=Cloning site Green=Tags(s)

MFPNGTASSPSSPSPGSCGEGGSRGPGAGAADMEEPGRNASQNGTLSEGQGSAILISFIYSVVCL
VGLCGNSMVIYVILRYAKMKTATNIYILNLAIADLLMLSVPLVTSTLLRHWPFGALLCRLVLSVDVN
MFTSIYCLTVLSDRYAVVHPKAARYRPTVAKVVNLGVWLSLLVILPIVFSRTAANSDDGTACNM
LMPEPAQRWLVGFVLYTFLMGFLLPVGAICLCYVLIIAKMRMVALKAGWQQRKRSERKITLMVMVMVMVF
VICWMPFYVQLVNVFAEQDDATVSQLSVILGYANSCANPILYGFLLSDNFKRSFQIRILCLSWMDNAAEEP
VDYYATALKSRAYSVEDFQPENLESGGVFRNGTCTSRITTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001049

ORF Size: 1173 bp

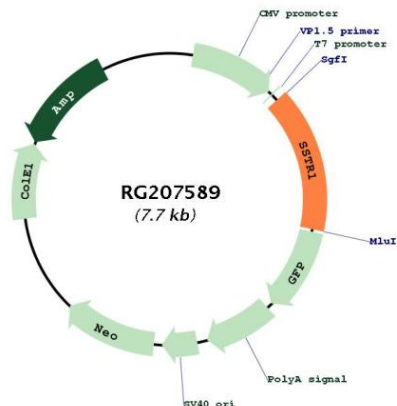
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001049.3
RefSeq Size:	4343 bp
RefSeq ORF:	1176 bp
Locus ID:	6751
UniProt ID:	P30872
Cytogenetics:	14q21.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	Somatostatins are peptide hormones that regulate diverse cellular functions such as neurotransmission, cell proliferation, and endocrine signaling as well as inhibiting the release of many hormones and other secretory proteins. Somatostatin has two active forms of 14 and 28 amino acids. The biological effects of somatostatins are mediated by a family of G-protein coupled somatostatin receptors that are expressed in a tissue-specific manner. The protein encoded by this gene is a member of the superfamily of somatostatin receptors having seven transmembrane segments. Somatostatin receptors form homodimers and heterodimers with other members of the superfamily as well as with other G-protein coupled receptors and receptor tyrosine kinases. This somatostatin receptor has greater affinity for somatostatin-14 than -28. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG207589