

Product datasheet for **RG205146**

Somatostatin Receptor 2 (SSTR2) (NM_001050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Somatostatin Receptor 2 (SSTR2) (NM_001050) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Somatostatin Receptor 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205146 representing NM_001050 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCT
CTGTGGTGTCAACCAACACCTCAAACCAGACAGAGCCGTAATGACCTGACAAGCAATGCAGTCCTCAC
ATTCATCTATTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACTTGTCAATTTATGTCATCCTCCGC
TATGCCAAGATGAAGACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGC
TGGGTCTGCCTTTCTTGGCTATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGT
GGTCATGACTGTGGATGGCATCAATCAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGA
TACCTGGCTGTGGTCCACCCATCAAGTCGGCCAAGTGGAGGAGACCCCGACGGCCAAGATGATACCA
TGGCTGTGTGGGAGTCTCTCTGCTGGTCATCTTGCCCATCATGATATATGCTGGGCTCCGGAGCAACCA
GTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAATCTGGGGCTTGGTACACAGGTTTCATCATC
TACACTTTCATTCTGGGTTCTGGTACCCCTCACCATCATCTGTCTTTGCTACCTGTTCATTATCATCA
AGGTGAAGTCTCTGGAATCCGAGTGGGCTCCTAAGAGGAAGAAGTCTGAGAAGAAGTCAACCCGAAT
GGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATTCAACGTTTCTCCGTC
TCCATGGCCATCAGCCCCACCCAGCCCTTAAAGGCATGTTTGACTTTGGTGGTCTCACCTATGCTA
ACAGCTGTGCAACCCTATCCTATATGCCTTCTTGTCTGACAACCTCAAGAAGAGCTTCCAGAATGTCT
CTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG
AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAACCCAGTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205146 representing NM_001050
Red=Cloning site Green=Tags(s)

```
MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYDLTSSNAVLTFIYFVVCIIGLCGNTLVIYVILR
YAKMKTITNIIYILNLAIADLFMLGLPFLAMQVALVHWPFGKAI CRVVM TVDGINQFTSIFCLTVMSIDR
YLAVVHPIKSAKWRPRPTAKMITMAVWGVSLLVILPIMIYAGLRSNQWGRSSCTINWPGESGAWYTGFI I
YTFILGFLVPLTIIICLCYLFIIIKVKSSGIRVSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSV
SMAISPTPALKGMDFVVLTYANSCANPILYAF LSDNFKKS FQNVLC LVK VSGTDDGERSDSKQDKSRL
NETTETQRTL L NGDLQTSI
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001050

ORF Size: 1107 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_001050.3](#)

RefSeq Size: 1110 bp

RefSeq ORF: 1110 bp

Locus ID: 6752

UniProt ID: [P30874](#)

Cytogenetics: 17q25.1

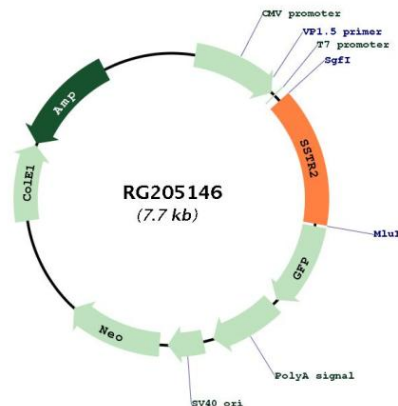
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biologic effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. SSTR2 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in cerebrum and kidney. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205146