

## Product datasheet for RC205146

### 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:	Myc-DDK
Symbol:	Somatostatin Receptor 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205146 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCT  
CTGTGGTGTCAACCAACACCTCAAACCAGACAGAGCCGTAATGACCTGACAAGCAATGCAGTCCTCAC  
ATTCATCTATTTTGTGGTCTGCATCATTGGGTTGTGTGGAACACACTTGTCAATATGTCATCCTCCGC  
TATGCCAAGATGAAGACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGC  
TGGGTCTGCCTTTCTTGGCTATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGT  
GGTCATGACTGTGGATGGCATCAATCAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGA  
TACCTGGCTGTGGTCCACCCCATCAAGTCGGCCAAGTGGAGGAGACCCCGACGGCCAAGATGATACCA  
TGGCTGTGTGGGAGTCTCTCTGCTGGTCATCTTGCCCATCATGATATATGCTGGGCTCCGGAGCAACCA  
GTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAATCTGGGGCTTGGTACACAGGGTTCATCATC  
TACACTTTTCAATCTGGGGTTCCTGGTACCCCTCACCATCATCTGTCTTTGCTACCTGTTCATTATCATCA  
AGGTGAAGTCCTTGGAAATCCGAGTGGGCTCCTTAAGAGGAAGAAGTCTGAGAAGAAGGTCACCCGAAT  
GGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTCCCTTCTACATATTCAACGTTTCTCCGTC  
TCCATGGCCATCAGCCCCACCCAGCCCTTAAAGGCATGTTTGACTTTTGGTGGTCTCACCTATGCTA  
ACAGCTGTGCCAACCTATCCTATATGCCTTCTTGTCTGACAACCTCAAGAAGAGCTCCAGAATGTCT  
CTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG  
AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAACCCAGTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205146 protein sequence  
Red=Cloning site Green=Tags(s)

MDMADEPLNGSHTWL SIPFDLNGSVVSTNTSNQTEPYD L T S N A V L T F I Y F V V C I I G L C G N T L V I Y V I L R  
 Y A K M K T I T N I Y I L N L A I A D E L F M L G L P F L A M Q V A L V H W P F G K A I C R V V M T V D G I N Q F T S I F C L T V M S I D R  
 Y L A V V H P I K S A K W R R P R T A K M I T M A V W G V S L L V I L P I M I Y A G L R S N Q W G R S S C T I N W P G E S G A W Y T G F I I  
 Y T F I L G F L V P L T I I C L C Y L F I I I K V K S S G I R V G S S K R K K S E K K V T R M V S I V V A V F I F C W L P F Y I F N V S S V  
 S M A I S P T P A L K G M F D F V V V L T Y A N S C A N P I L Y A F L S D N F K K S F Q N V L C L V K V S G T D D G E R S D S K Q D K S R L  
 N E T T E T Q R T L L N G D L Q T S I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6139\\_a04.zip](https://cdn.origene.com/chromatograms/mk6139_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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:** 2996 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 6752

**UniProt ID:** [P30874](#)

**Cytogenetics:** 17q25.1

**Domains:** 7tm\_1

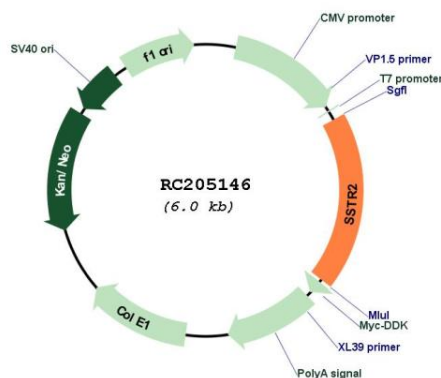
**Protein Families:** Druggable Genome, GPCR, Transmembrane

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

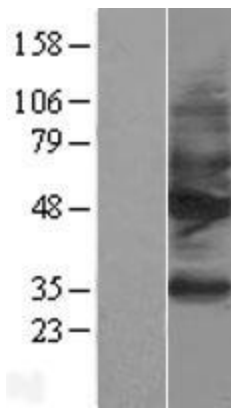
**MW:** 41.3 kDa

**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]

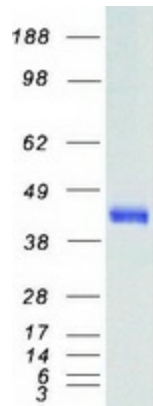
## Product images:



Circular map for RC205146



Western blot validation of overexpression lysate (Cat# [LY400438]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205146 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SSTR2 protein (Cat# [TP305146]). The protein was produced from HEK293T cells transfected with SSTR2 cDNA clone (Cat# RC205146) using MegaTran 2.0 (Cat# [TT210002]).