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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) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCT CTGTGGTGTCAACCAACACCTCAAACCAGACAGAGCCGTACTATGACCTGACAAGCAATGCAGTCCTCAC ATTCATCTATTTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACACTTGTCATTTATGTCATCCTCCGC TATGCCAAGATGAAGACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGC TGGGTCTGCCTTTCTTGGCTATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGT GGTCATGACTGTGGATGGCATCAATCAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGA TACCTGGCTGTGGTCCACCCCATCAAGTCGGCCAAGTGGAGGAGACCCCGGACGGCCAAGATGATCACCA TGGCTGTGTGGGGAGTCTCTCTGCTGGTCATCTTGCCCATCATGATATATGCTGGGCTCCGGAGCAACCA GTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAATCTGGGGCTTGGTACACAGGGTTCATCATC TACACTTTCATTCTGGGGTTCCTGGTACCCCTCACCATCATCTGTCTTTGCTACCTGTTCATTATCATCA AGGTGAAGTCCTCTGGAATCCGAGTGGGCTCCTCTAAGAGGAAGAAGTCTGAGAAGAAGGTCACCCGAAT GGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATTCAACGTTTCTTCCGTC TCCATGGCCATCAGCCCCACCCCAGCCCTTAAAGGCATGTTTGACTTTGTGGTGGTCCTCACCTATGCTA ACAGCTGTGCCAACCCTATCCTATATGCCTTCTTGTCTGACAACTTCAAGAAGAGCTTCCAGAATGTCCT CTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAAACCAGTATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205146 protein sequence
Red=Cloning site Green=Tags(s)

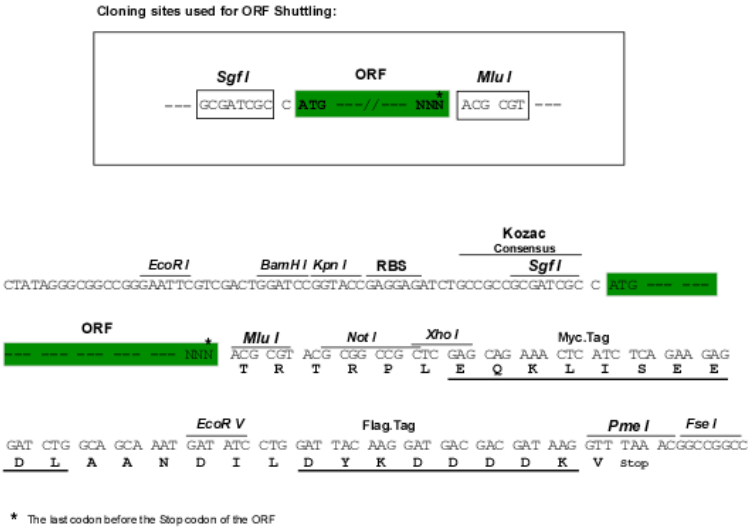
MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYYDLTSNAVLTFIYFVVCIIGLCGNTLVIYVILR
YAKMKTITNIYILNLAIADELFMLGLPFLAMQVALVHWPFGKAICRVVMTVDGINQFTSIFCLTVMSIDR
YLAVVHPIKSAKWRRPRTAKMITMAVWGVSLLVILPIMIYAGLRSNQWGRSSCTINWPGESGAWYTGFII
YTFILGFLVPLTIICLCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSV
SMAISPTPALKGMFDFVVVLTYANSCANPILYAFLSDNFKKSFQNVLCLVKVSGTDDGERSDSKQDKSRL
NETTETQRTLLNGDLQTSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6139_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001050

ORF Size: 1107 bp

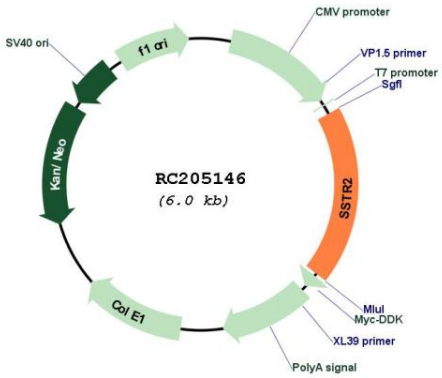
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

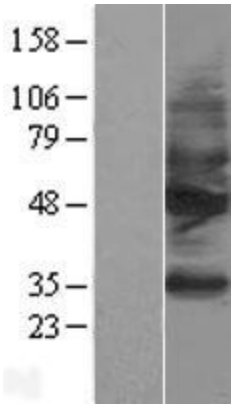
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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]

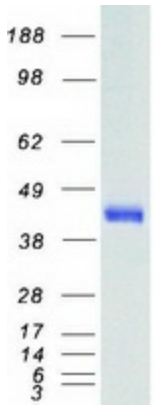
Product images:



Circular map for RC205146



Western blot validation of overexpression lysate (Cat# [LY400438]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected 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]).