

Product datasheet for **RG215219**

Somatostatin Receptor 3 (SSTR3) (NM_001051) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Somatostatin Receptor 3 (SSTR3) (NM_001051) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Somatostatin Receptor 3
Synonyms:	SS-3-R; SS3-R; SS3R; SSR-28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215219 representing NM_001051 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGCTTCATCCATCATCGGTGTCCACGACCTCAGAACCTGAGAATGCCTCCTCGGCCTGGCCCC
CAGATGCCACCCTGGGCAACGTGTCGGCGGGCCCAAGCCCGCAGGGCTGGCCGTCAGTGGCGTTCTGAT
CCCCCTGGTCTACCTGGTGGTGTGCGTGGTGGCCTGCTGGGTAACCTCGTGGTCATCTATGTGGTCCTG
CGGCACACGGCCAGCCCTTCAGTCACCAACGTCTACATCCTCAACCTGGCGCTGGCCGACGAGCTCTTCA
TGCTGGGGCTGCCCTTCTGGCCGCCAGAACGCCCTGTCTACTGGCCCTTCGGCTCCCTCATGTGCCG
CCTGGTCATGGCCGTGGATGGCATCAACCAAGTTCACCAGCATATTCTGCCTGACTGTCATGAGCGTGGAC
CGCTACCTGGCCGTGGTACATCCACCCGCTCGGCCCGCTGGCGCACAGCTCCGGTGGCCCGCACGGTCA
GCGCGGCTGTGTGGGTGGCTCAGCCGTGGTGGTGTGCCCGTGGTGGTCTTCTCGGGAGTGCCCGCGG
CATGAGCACCTGCCACATGCAGTGGCCCGAGCCGGCGGGCCTGGCGAGCCGGCTTCATCATCTACAG
GCCGACTGGGCTTCTTCGGGCCGCTGCTGGTCATCTGCCTCTGCTACCTGCTCATCGTGGTGAAGGTGC
GCTCAGCTGGGCGCCGGTGTGGCACCCCTCGTGCCAGCGGGCGGGCGCTCCGAACGCAGGGTACGCG
CATGGTGGTGGCCGTGGTGGCCTCTTCGTGCTCTGCTGGATGCCCTTCTACGTGCTCAACATCGTCAAC
GTGGTGTGCCACTGCCGAGGAGCCTGCCTTCTTTGGGCTCTACTTCTGGTGGTGGCGCTGCCATG
CCAACAGCTGTGCCAACCCATCCTTTATGGCTTCTCTCTCCTACCCTTCAAGCAGGGCTTCCGCAAGGT
CCTGCTGCGGCCCTCCCGCGTGTGCGCAGCCAGGAGCCACTGTGGGGCCCCGGAGAAGACTGAGGAG
GAGGATGAGGAGGAGGAGGATGGGGAGGAGCAGGGAGGGGGCAAGGGGAAGGAGATGAACGCCCGGG
TCAGCCAGATCACGCAGCCTGGCACCAGCGGGCAGGAGCGGCCCGCCAGCAGAGTGGCCAGCAAGGAGCA
GCAGCTCTACCCAAGAGGCTTCCACTGGGGAGAAGTCCAGCACGATGCGCATCAGCTACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215219 representing NM_001051
 Red=Cloning site Green=Tags(s)

MDMLHPPSSVSTTSEPENASSAWPPDATLGNVSAGPSPAGLAVSGVLIPLVYL VVCVVGLLGNLSVIYVVL
 RHTASPSVTNVYILNLALADELFMLGLPFLAAQNALSYWPFGLMCR LVMVDGINQFTSIFCLTVMSVD
 RYLAVVHPTRSARWRTAPVARTVSAAVWVASAVVVL PVVVFSGVPRGMSTCHMQWPEAAAWRAGFIIYT
 AALGFFGPLLVICLCYLLIVVKVRSAGRRVWAPSCQRRRRSERRVTRMVAVVALFVLCWMPFYVLNIVN
 VVCP LPEEPAFFGLYFLVVALPYANSCANPILYGF LSYRFKQGFRRVLLRPSRRVRSQEPTVGPPEKTEE
 EDEEEEDGEESREGGK GKEMNGRVSQITQP GTSQGERPPSRVASKEQQLLPQEASTGEKSSTMRISYL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001051

ORF Size: 1254 bp

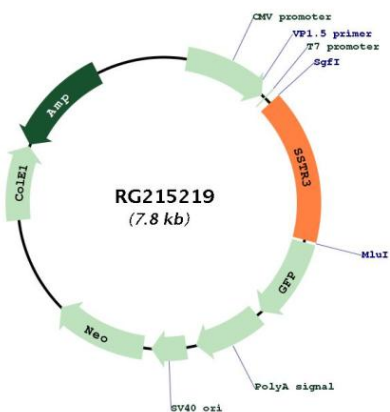
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001051.5
RefSeq Size:	2123 bp
RefSeq ORF:	1257 bp
Locus ID:	6753
UniProt ID:	P32745
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>This gene encodes a member of the somatostatin receptor protein family. 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. 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 protein is functionally coupled to adenylyl cyclase. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p>

Product images:



Circular map for RG215219