

## Product datasheet for **RG217543**

### Somatostatin Receptor 4 (SSTR4) (NM\_001052) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Somatostatin Receptor 4 (SSTR4) (NM_001052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Somatostatin Receptor 4
Synonyms:	SS-4-R; SS4-R; SS4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217543 representing NM_001052 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGCCCCCTCGACGCTGCCCCCGGGGGCGAGGAAGGGCTGGGGACGGCCTGGCCCTCTGCAGCCA  
ATGCCAGTAGCGCTCCGGCGGAGGCGGAGGAGGGTGGCGGGGCCGGGACGCGCGGGCGGGGCAT  
GGTCGCTATCCAGTGCATCTACGCGCTGGTGTGCCTGGTGGGGCTGGTGGCAACGCCCTGGTCATCTTC  
GTGATCCTTCGCTACGCCAAGATGAAGACGGCTACCAACATCTACCTGCTCAACCTGGCCGTAGCCGACG  
AGCTCTTCATGCTGAGCGTGCCCTTCGTGGCCTCGTCGGCCGCCCTGCGCCACTGGCCCTTCGGCTCCGT  
GCTGTGCCGCGCGGTGCTCAGCGTCGACGGCCTCAACATGTTACCAGCGTCTTCTGTCTACCGTGCTC  
AGCGTGGACCGCTACGTGGCCGTGGTGCACCCTCTGCGCGCGGGACCTACCGGGCGCCAGCGTGGCCA  
AGCTCATCAACCTGGGCGTGTGGCTGGCATCCCTGTTGGTCACTCTCCCATCGCCATCTTCGAGACAC  
CAGACCGGCTCGCGGGCGCCAGGCCGTGGCCTGCAACCTGCAGTGGCCACACCGGCCCTGGTCGGCAGTC  
TTCGTGGTCTACACTTTCCTGCTGGGCTTCTGCTGCCCGTGTGGCCATTGGCCTGTGCTACCTGCTCA  
TCGTGGCAAGATGCGCGCCGTGGCCCTGCGCGCTGGCTGGCAGCAGCGCAGGCGCTCGGAGAAGAAAAT  
CACCAGGCTGGTGTGATGGTNGTGGTCTCTTTGTGCTCTGCTGGATGCCTTTCTACGTGGTGCAGCTG  
CTGAACCTTTCGTGACCAGCCTTGATGCCACCGTCAACCAGTGTCCCTATCCTTAGCTATGCCAACA  
GCTGCGCCAACCCATTCTCTATGGCTTCTCTCCGACAACTTCCGCCGATTCTTCCAGCGGGTTCTCTG  
CCTGCGCTGCTGCCTCCTGGAAGGTGCTGGAGGTGCTGAGGAGGAGCCCTGGACTACTATGCCACTGCT  
CTCAAGAGCAAAGGTGGGGCAGGGTGCATGTGCCCCCACTCCCCTGCCAGCAGGAAGCCCTGCAACCCAG  
AACCCGGCCGCAAGCGCATCCCCCTCACCAGGACCACCACCTTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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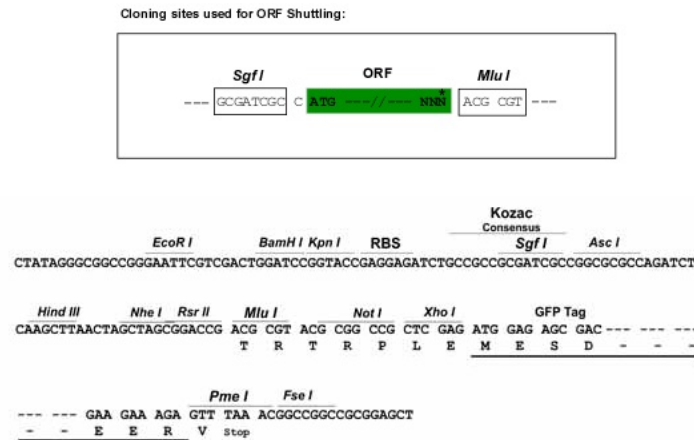
**Protein Sequence:** >RG217543 representing NM\_001052  
Red=Cloning site Green=Tags(s)

MSAPSTLPPGGEEGLGTAWPSAANASSAPAEAEAVAGPGDARAAGMVAIQCIYALVCLVGLVGNALVIF  
 VILRYAKMKTATNIYLLNLVADEL FMLSVPFVASSAALRHWPFGSVLCRAVLSVDGLNMFTSVFCLTVL  
 SVDRYVAVVHPLRAATYRRPSVAKLINLGVWLASLLVTLPIAIFADTRPARGGQAVACNLQWPHPAWSAV  
 FVYVTFLLGFLLPVLAIGLCYLLIVGKMRVALRAGWQRRRSEKKITRLVLMXVVVFVLCWMPFYVVQL  
 LNLFVTSLDATVNHVSLILSYANSCANPILYGF LSDNFRFFQRVLCRCCLLEGAGGAEELDYATA  
 LKSKGGAGCMCPPLPCQQEALQPEPGRKRIPLTRTTTF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001052

**ORF Size:** 1164 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\\_001052.1](#), [NP\\_001043.1](#)

**RefSeq Size:** 1167 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 6754

**UniProt ID:** [P31391](#)

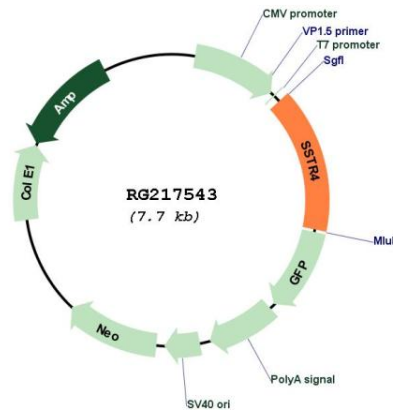
**Cytogenetics:** 20p11.21

**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. SSTR4 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in fetal and adult brain and lung. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG217543