

Product datasheet for **RC207601**

Somatostatin (SST) (NM_001048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Somatostatin (SST) (NM_001048) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Somatostatin
Synonyms:	SMST; SST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207601 representing NM_001048 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCTGCCGCTCCAGTGCAGCTGGCTGCGCTGTCCATCGTCCTGGCCCTGGGCTGTGTACCG
GCGCTCCCTCGGACCCAGACTCCGTCAGTTTCTGCAGAAGTCCCTGGCTGCTGCCGCGGGGAAGCAGGA
ACTGGCCAAGTACTTCTTGGCAGAGCTGCTGTCTGAACCAACCAGACGGAGAATGATGCCCTGGAACCT
GAAGATCTGTCCCAGGCTGCTGAGCAGGATGAAATGAGGCTTGAGCTGCAGAGATCTGCTAACTCAAACC
CGCTATGGCACCCGAGAACGCAAAGCTGGCTGCAAGAATTTCTCTGGAAGACTTTCACATCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC207601 representing NM_001048 Red=Cloning site Green=Tags(s)
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MLSCRLQCALAALSIVLALGCVTGAPSDPRLRQFLQKSLAAAAGKQELAKYFLAELLSEPNQTENDALEP
EDLSQAAEQDEMRLQLQRSANSNPAMAPRERKAGCKNFFWKFTTSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mg3083_c01.zip
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Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN: NM_001048

ORF Size: 348 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_001048.4](#)

RefSeq Size: 665 bp

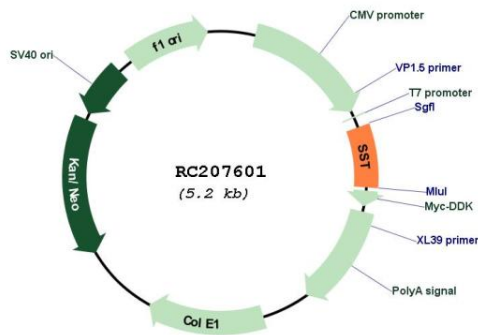
RefSeq ORF: 351 bp

Locus ID: 6750

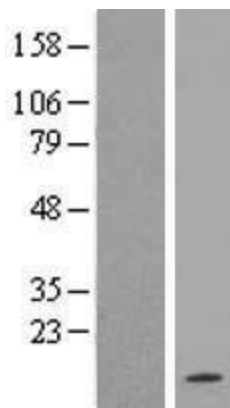
UniProt ID: [P61278](#)
Cytogenetics: 3q27.3
Domains: Somatostatin
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
MW: 12.74 kDa

Gene Summary: The hormone somatostatin has active 14 aa and 28 aa forms that are produced by alternate cleavage of the single preproprotein encoded by this gene. Somatostatin is expressed throughout the body and inhibits the release of numerous secondary hormones by binding to high-affinity G-protein-coupled somatostatin receptors. This hormone is an important regulator of the endocrine system through its interactions with pituitary growth hormone, thyroid stimulating hormone, and most hormones of the gastrointestinal tract. Somatostatin also affects rates of neurotransmission in the central nervous system and proliferation of both normal and tumorigenic cells. [provided by RefSeq, Jul 2008]

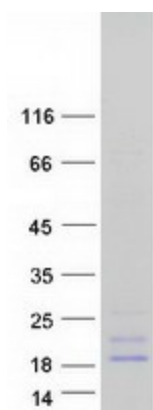
Product images:



Circular map for RC207601



Western blot validation of overexpression lysate (Cat# [LY420765]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207601 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SST protein (Cat# [TP307601]). The protein was produced from HEK293T cells transfected with SST cDNA clone (Cat# RC207601) using MegaTran 2.0 (Cat# [TT210002]).