

Product datasheet for **RC201991**

STT3A (NM_152713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STT3A (NM_152713) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STT3A
Synonyms:	ITM1; STT3-A; TMC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201991 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTAAGTTTGGATTTTTCGATTGTCCTATGAGAAGCAGGACACACTTTGAAGCTTCTCATTCTGT
 CAATGGCTGCTGTATTATCCTTCTCCACTCGTCTGTTTGTCTGCTGAGATTTGAAAGTGTATCCATGA
 GTTTGATCCGTACTTTAATTATCGGACTACCAGGTTCTGGCTGAGGAGGGGTTTATAAATTCATAAC
 TGGTTTGTGACCGAGCCTGGTACCCTTTGGGACGAATCATTGGAGGAACAATTTACCCAGGTTTAAATGA
 TCACCTCTGCTGCAATCTACCATGTACTCCATTTTCCACATCACCATCGACATTCGGAATGTCTGTGT
 GTTCTGGCCCTCTCTTCTCCTCCTCACCACCATCGTCACGTACCACCTACCAAAGAGCTCAAGGAT
 GCAGGGGCTGGGCTTCTGCTGCTGCCATGATTGCTGTAGTTCTGGATATATCTCCCGATCTGTGGCTG
 GCTCCTATGATAATGAAGGGATTGCCATCTTTGTCATGCTACTCACCTACTACATGTGGATCAAGGCAGT
 AAAGACTGGTCCATCTGTTGGGACGCTAAGTGTGCCCTTGCTTATTTCTACATGGTCTCGTCATGGGA
 GGTATGTGTTCCGATCAACTTAATTCCTCTCCACGTCCTCGTCTGATGCTCACAGGCCGTTTCTCTC
 ACCGGATCTATGTGGCCTACTGTACTGTTACTGCCTGGGCACTATACTTTCTATGCAGATCTCCTTTGT
 GGGTTTCCAGCCTGTCCTTTTCATCAGAGCACATGGCAGCCTTTGGGGTCTTTGGTCTCTGCCAGATCCAT
 GCCTTTGTGGATTACCTGCGCAGCAAGTTGAATCCACAACAATTTGAAGTCTTTTCCGGAGCGTCATCT
 CTCTGGTAGGCTTTGCTTCTCACCGTGGGAGCTCTCCTCATGCTGACAGGAAAAATATCTCCCTGGAC
 GGGGCTTTTACTCGCTGCTGGATCCCTCTTATGCTAAGAACAACATCCCCATCATTGCTTCTGTGTCT
 GAGCATCAGCCACAACCTGGTCTCATACTATTTGACCTGCAGCTCCTCGTCTTCATGTTTCCAGTTG
 GCCTCTATTACTGCTTTAGCAACCTGTCTGATGCCCGGATTTTATCATCATGTATGGTGTGACCAGGAT
 GTACTTTTCAGCTGTAATGGTGCGTCTAATGCTAGTGTGGCACCTGTTATGTGCATTCTCTCTGGCATT
 GGAGTCTCCAGGTGCTGTCACATACATGAAGAATCTGGACATAAGTCGTCCAGACAAGAAGAGCAAGA
 AGCAACAGGATCCACCTACCCTATTAAGAATGAAGTGGCAAGTGGGATGATACTGGTCAATGGCTTTCTT
 TCTCATCACCTACACCTTTCATTCAACCTGGGTGACCAGTGAGGCCTACTCTTCTCCGTCCATTGTA
 TCTGCCCGTGGTGGGATGGCAGTAGGATCATATTTGATGACTCCGAGAAGCATATTATTGGCTTCGTC
 ATAATACTCCAGAGGATGCGAAGGTCATGTCCTGGTGGGATTATGGCTATCAGATTACAGCTATGGCAA
 CCGAACAATTTAGTGGACAATAACACATGGAATAATACCCATATTTCTCGAGTAGGGCAGGCAATGGCG
 TCCACAGAGGAAAAAGCCTATGAGATCATGAGGGAGCTCGATGTCAGCTATGTGCTGGTCATTTTGGAG
 GCCTCACTGGGTATTCCTCTGATGATATCAACAAGTTTCTTTGGATGGTCCGGATTGGAGGGAGCACAGA
 TACAGGCAAACATATCAAGGAGAATGACTATTATACTCCAACCTGGGGAGTTCCGTGTGGACCGTGAAGGT
 TCTCCAGTGTCTCAACTGCCTCATGTACAAGATGTGTTACTATCGCTTTGGACAGGTTTACACAGAAG
 CCAAGCGTCTCCAGGCTTTGACCGTGTCCGAAATGCTGAGATTGGGAATAAAGACTTTGAGCTTGATGT
 CCTGGAGGAAGCATATACCACAGAACATTGGCTGGTCAGGATATACAAGGTAAGGACCTGGATAATCGA
 GGCTTGCAAGGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201991 protein sequence
Red=Cloning site Green=Tags(s)

MTKFGFLRLSYEKQDTLLKLLILSMAAVLSFSTRLFAVLRFEVSIHEFDPYFNRYTRFLAEEGFYKFHN
 WFDDRAWYPLGRIIGGTIYPGLMITSAAIYHVLHFFHITIDIRNVCVFLAPLFFSSFTTIVTYHLTKELKD
 AGAGLLAAMIIVVPGYISRSVAGSYDNEGIAIFCMLLTYYMWIKAVKTGSICWAAKCALAYFYMVSSWG
 GYVFLINLIPLHVLVLMLTGRFSHRIYVAYCTVYCLGTILSMQISFVGFQPVLSSEHMAAFGVFGLCQIH
 AFVDYLRSKLNPQQFEVLFRSVISLVGFVLLTVGALLMLTGKISPWTGRFYSLLDPSYAKNNIPIIASVS
 EHQPPTWSSYYFDLQLLVFMFPVGLYYCFSNLSDARIFIIMYGVTSMYFSAVMVRMLVLAPVMCILSGI
 GVSQVLSTYMKNLDISRPDKSKKQQDSTYPIKNEVASGMILVMAFFLITYTFHSTWWTSEAYSSPSIVL
 SARGGDSRIIFDDFREAYYWL RHNTPEDAKVMSWWDYGYQITAMANRTILVDNNTWNNTHSRVGQAMA
 STEEKAYEIMRELDVSYLVVIFGGLTGYSSDDINKFLWMVRIGGSTDTGKHIKENDYYTPTGEFRVDREG
 SPVLLNCLMYKMCYYRFQVYTEAKRPPGFDRVRNAEIGNKDFELDVLEEAYTTEHWLVRIYKVKDLNDR
 GLSRT

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6155_e06.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_152713

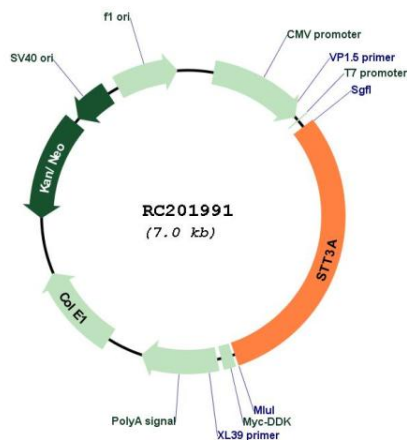
ORF Size: 2115 bp

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](#)

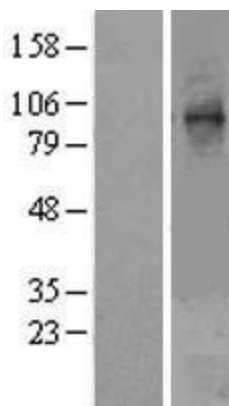
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
RefSeq:	NM_152713.5
RefSeq Size:	4244 bp
RefSeq ORF:	2118 bp
Locus ID:	3703
UniProt ID:	P46977
Cytogenetics:	11q24.2
Domains:	STT3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	80.5 kDa
Gene Summary:	The protein encoded by this gene is a catalytic subunit of the N-oligosaccharyltransferase (OST) complex, which functions in the endoplasmic reticulum to transfer glycan chains to asparagine residues of target proteins. A separate complex containing a similar catalytic subunit with an overlapping function also exists. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RC201991



Western blot validation of overexpression lysate (Cat# [LY403485]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201991 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).