

Product datasheet for **RC218829**

STT3B (NM_178862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STT3B (NM_178862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STT3B
Synonyms:	CDG1X; SIMP; STT3-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC218829 representing NM_178862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCCCTCGGCCCGGAGAGCAAGCACAAGTCGTCCTCAACTCGTCCCGTGGAGTGGCCTCA
 TGGCCCTGGGAAACAGCCGGCACGGCCACCACGGGCCCGGGGCCAGTGC GCGCACAAAGCGCGGGCGG
 CGCGGCGCCGCCGAAGCCGGCCCGCGGGGCTGTCCGGGGGCTGTCCGAGCCGGCTGGGTGGCAGTCG
 CTTCTCTCCTTACCATCCTCTTCTGGCTGGCTTCCGGCTTCCAGCTCGCGCCTCTTCGCGCTCATCC
 GCTTCGAAAGCATCATCCACGAGTTCGACCCGTGGTTAACTATAGATCAACACATCATCTTGCATCTCA
 TGGTTCTATGAATTTTTAAATTGGTTTGTGAAAGAGCATGGTATCCACTAGGAAGAATAGTAGGTGGT
 ACTGTTTACCCAGGTTGATGATAACCGCTGGCCTTATTCATTGGATTTTAAATACATTGAACATAACTG
 TTCACATAAGAGACGTATGTGTTCCTTGCACCAACTTTAGCGGCCTTACATCTATATCTACTTTCCT
 GCTTACAAGAGAACTTTGGAACCAAGGAGCAGGACTTTTAGCTGCTTGTATTGCTATTGTACCAGGC
 TACATATCTCGGTCACTAGCTGGATCCTTTGATAATGAAGGCATTGCTATTTTGCACCTCAGTTACAT
 ACTATTTATGGTAAAATCTGTA AAAACTGGGTCAGTTTTTTGGACAATGTGCTGCTGCTTATCCTATTT
 CTATATGGTCTCTGCTTGGGGTGGTTATGTATTTATCATCAATCTTATCCACTGCATGATTTGTGTTG
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 TATCAATGCAGATACCTTTTGTGGGATTCCAGCCAATCAGAACAAGTGAACACATGGCAGCTGCAGGTGT
 CTTTGCATTGTGCAAGCTTATGCTTCTTGCAGTATCTGAGAGACCGATTAACAAAACAAGAGTCCAG
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 CGTGTGTATGCTGTCTGCAATTGCCTTTCAAATGTTTTTGGACTATTTGGGGATGACATGAAAAGG
 GAAAATCCACCTGTGGAGGACAGCAGTGTGAGGATGACAAAAGAAACCAAGGAAATTTGTATGATAAGG
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 GCCTACTCTAGTCCAAGTGTAGTCTGGCCTCATACAATCATGATGGCACCAGGAATATCTTAGATGATT
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 GATTTGGAGAAAATGCAGCTGGATTTTCGTACACCCCAAGTTTTGACCGAACACGTAATGCTGAGATTGG
 AAATAAGGACATTA AATTCAAACATTTGGAAGAAGCCTTTACATCAGAACACTGGCTTGTAGGATATAT
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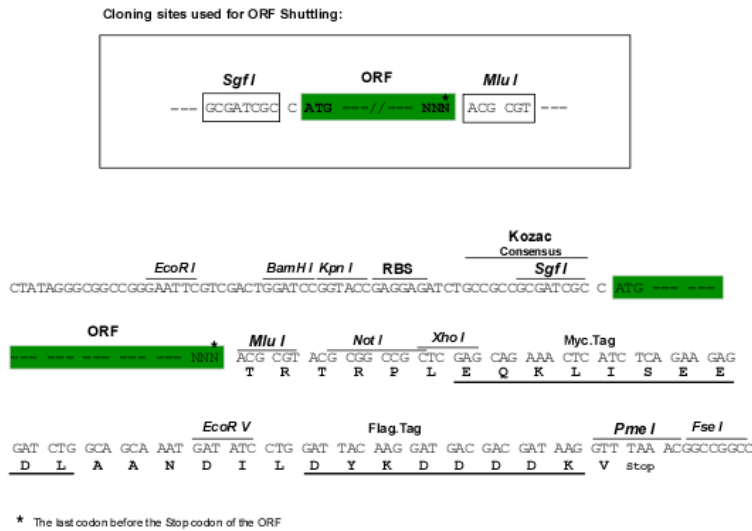
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218829 representing NM_178862
Red=Cloning site Green=Tags(s)

MAEPSAPESKHKSSLNSSPWGLMALGNSRHGHHGPGAQCAHKAAGGAAPPKPAPAGLSGGLSQPAGWQS
LLSFTILFLAWLAGFSSRLFAVIRFESIHEFDPWFNYRSTHHLASHGFYEFLNWFDERAWYPLGRIVGG
TVYPGLMITAGLIHWILNLTNITVHIRDVCVFLAPTFSGLTSISTFLLTRELWNQAGLLAACFIAIVPG
YISRSVAGSFDNEGIAIFALQFTYYLWVKSVKTSVFWTMCCCLSYFYMVSAWGGYVFIINLIPLHVFL
LLMQRYSKRVYIAYSTFYIVGLILSMQIPFVGFQPIRTSEHMAAAGVFALLQAYAFLLQYLRDRLTKQEFQ
TLFFLGVSLAAGAVFLSVIYLYTYGYIAPWSGRFYSLWDTGYAKIHIPIIASVSEHQPTTWVSFFDLHI
LVCTFPAGLWFCIKNINDERVFVALYASAVYFAGVMVRLMLTLTPVVCMLSAIAF SNVFEHYLGDDMKR
ENPPVEDSDEDDKRNQGNLYDKAGKVRKHATEQEKTEEGLGPNIKSIVTMLMLLMMFAVHCTWVTSN
AYSSPSVVLASYNHDGTRNILDFFREAYFWLRQNTDEHARVMSWWDYGYQIAGMANRTTLVDNNTWNNSH
IALVGKAMSSNETAAYKIMRTLVDYVLYVIFGGVIGYSGDDINKFLWMVRIAEGEHPKDIRESDYFTPQG
EFRVDKAGSPTLLNCLMYKMSYYRFGEMQLDFRTPPGFDRTRNAEIGNKDIKFKHLEEAFTEHWLVRIY
KVKAPDNRETLDHKPRVTNIFPKQKYL SKKTTKRKRGYIKNKL VFKKGGKISKKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_178862

ORF Size: 2478 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_178862.1 , NM_178862.2 , NP_849193.1
RefSeq Size:	4553 bp
RefSeq ORF:	2481 bp
Locus ID:	201595
UniProt ID:	Q8TCJ2
Cytogenetics:	3p23
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	93.7 kDa
Gene Summary:	The protein encoded by this gene is a catalytic subunit of a protein complex that transfers oligosaccharides onto asparagine residues. Defects in this gene are a cause of congenital disorder of glycosylation Ix (CDG1X). [provided by RefSeq, Jun 2014]