

Product datasheet for **MC221873**

Stt3b (NM_024222) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stt3b (NM_024222) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stt3b
Synonyms:	1300006C19Rik; Simp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221873 representing NM_024222
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGCCCTCGGCCCGGAGAGCAAGCACAAAGTCGTCCTCAACTCGTCCCGTGGAGCGGCCTCA
 TGGCTCTGGGGAACAGCCGCCACGGGCACCATGGGCCCGAACCCAGAGCGCGTCCAGGGCGCGCGCC
 GAAGCCGGGGCCCCCGCGGGGCTGTCCGGGGCTTGTGCGAGCCGCGCGGTGGCAGTCGTTGCTCTCC
 TTCACCATCCTCTTCTGGCCTGGCTGGCCGGCTTTCAGCTCGCGCCTCTTCGCCGTCATCCGCTTCGAGA
 GCATCATCCACGAGTTCGACCCGTGGTTAACTATAGATCAACACATCATCTTGCATCTCATGGATTCTA
 TGAGTTTCTAAATTGGTTTGATGAAAGAGCATGGTACCCACTGGGAAGAATAGTGGGTGGCACCGTTTAC
 CCAGGGTTGATGATAACAGCTGGCCTTATTCATTGGATTTTAAATACATTGAACATAACAGTTACATAA
 GAGATGTGTGTATTCCCTGCACCAACTTTAGCGGCCTTACATCCATATCTACGTTCCCTGCTAACTAG
 AGAACTGTGGAACCAAGGAGCAGGACTTCTAGCTGCTTGCCTTATTGCTATCGTACCAGGGTACATATCT
 CGGTCACTGGCGGGATCCTTTGATAATGAAGGCATTGCCATTTTTCGCGCTCAGTTCACCTACTACTTAT
 GGGTAAAGTCTGTGAAGACCGGGTCTGTGTTCTGGACAATGTGCTGCTGCTTGTGCATATTTCTACATGGT
 CTCTGCGTGGGGAGGTTATGTGTTTCATCATCAACCTCATCCCTCTCCATGTGTTGTGTTGCTGCTGATG
 CAGAGGTACAGCAAGAGAGTCTACATAGCATATAGCACTTTTACATTGTGGGTTAATATTATCCATGC
 AGATACCTTTTGTGGGATTTTCAGCCAATCAGAACAAGCGAGCACATGGCAGCTGCAGGTGTCTTTGCGCT
 GCTGCAAGCTTACGCTTTTTGTCAGTATCTGAGAGACCGGTTGACAAAACAGGAGTTCAGACCCTTTTTC
 TTTTTGGGTGTCTCACTAGCTGCAGGCGCTGTGTTCTTAGTGTCTATCTGACATACACAGTTATA
 TTGCACCATGGAGTGGCAGGTTTTATTCACTATGGGACTGGGATGCAAAAATACACATTTCAATT
 TGCATCAGTGTCTGAACATCAGCCTACGACATGGGTGTCTTTCTCTTTGATCTACATATTCTTGTATGT
 ACCTTCCCAGCAGGCCTATGTTTCTGCATCAAAAATATCAACGATGAAAGAGATTTTGTGCTCTGTATG
 CGATCAGTGTCTACTTTGCCGGAGTGATGGTGCAGGCTGATGCTGACTCTGACCCCGGTCTGTGCTGCAT
 GCTGTCCGCCATCGCCTTCTCCAATGTTTTGAGCACTATTTGGGGGATGACATGAAAAGGGAAAACCCA
 CCTGTGGAGGACAGCAGTGTGAGGATGACAAAAGAAACCCAGGAACTTGTATGACAAGGCAGGTAAG
 TGAGGAAGCATGTGACAGAGCAAGAGAAACCTGAAGAGGGCTTGGGCCCAACATCAAAAGCATTGTGAC
 CATGCTGATGCTCATGCTCCTGATGATGTTCCGGTCCACTGCACGTGGGTACAAGCAACGCTACTCC
 AGTCCAAGTGTGGTCTTGCCTCTACAATCATGATGGTACCAGGAATATATTAGATGATTTTAGAGAAG
 CGTACTTTTGGCTGAGACAAAACACGGATGAACACGCCCGGGTCACTGTCGTGGTGGGACTACGGCTATCA
 GATTGCTGGCATGGCCAACAGGACCACTCTGGTGGATAACAACACCTGGAACAACAGCCACATCGCACTG
 GTCGAAAAGCTATGTCTTCCAATGAAACGGCCGCTATAAAATCATGAGGTCCCTTGTGTCGATTATG
 TGTTGGTTATTTTCGGAGGAGTATTGGCTATTCGGGGACGATATCAACAAGTTCCTCTGGATGGTCAG
 GATAGCTGAAGGGGAGCATCCCAAAGACATCCGGGAAGGTGACTATTCACCCAGCAGGGAGAGTCCGA
 GTAGACAAAGCTGGGTCTCCTACTCTGTTAAACTGCCTTATGTATAAAATGTCATACTACAGATTTGGAG
 AAATGCAGCTAGATTTTCGCACTCCCCAGGCTTTGACCGAACACGTAATGCTGAGATTGGAAATAAAGA
 CATTAAATCAAGCATTGGAGGAAGCTTTTACATCAGAGCACTGGCTTGTGAGGATATATAAAGTGAAA
 GCACCTGACAACAGGGAGACACTAGGTACAAAACCTCGAGTCACCAACATCGTCCCAACAGAAAGTATT
 TGTCAAAGAAGACTACTAAAAGGAAGCGTGGCTACGTTAAAAATAGCTAGTGTTTAAGAAAGGCAAGAA
 GACCTCTAAGAAGACTGTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024222
Insert Size: 2472 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_024222.2 , NP_077184.2
RefSeq Size:	4236 bp
RefSeq ORF:	2472 bp
Locus ID:	68292
UniProt ID:	Q3TDQ1
Cytogenetics:	9 F3
Gene Summary:	<p>Catalytic subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity. This subunit contains the active site and the acceptor peptide and donor lipid-linked oligosaccharide (LLO) binding pockets (By similarity). STT3B is present in a small subset of OST complexes and mediates both cotranslational and post-translational N-glycosylation of target proteins: STT3B-containing complexes are required for efficient post-translational glycosylation and while they are less competent than STT3A-containing complexes for cotranslational glycosylation, they have the ability to mediate glycosylation of some nascent sites that are not accessible for STT3A. STT3B-containing complexes also act post-translationally and mediate modification of skipped glycosylation sites in unfolded proteins. Plays a role in ER-associated degradation (ERAD) pathway that mediates ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins by mediating N-glycosylation of unfolded proteins, which are then recognized by the ERAD pathway and targeted for degradation (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>