

Product datasheet for **MC206285**

Stt3a (BC037612) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stt3a (BC037612) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stt3a
Synonyms:	AA408947; BB081708; ltm1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC037612
 CCACGCGTCCGGCCGCTGAACGGATGGCAGGGGAGCAGAGTGGGTTCTGAGGAGCATCCGTGAGGT
 ATTTGAATATCATCAGTTGCCACCCATTGATGTCAAGATGACTAAGCTTGGATTTTTGCGATTGCCTAT
 GAGAAGCAGGACACACTTCTAAAGCTTCTCATCTGTGCGATGGCTGCTGTGTTATCTTTTTCTACTCGTC
 TTTTTGCTGTGCTGAGATTTGAAAGTGTATCCATGAGTTGATCCGACTTTAATTATCGGACTACCCG
 GTTTCTGGCTGAGGAGGGTTTTATAAATCCATAACTGGTTGATGACCGGGCTTGGTACCCTTTGGGC
 CGAATCATTGGAGGAACAATTTACCCAGGTTTAAATGATCACTTCTGCTGCAATCTACCATGTACTCCATT
 TCTTCCATATCACTATTGACATTCGGAATGTCTGTGTTTTCTGGCCCCACTTTTTCTCCTTTTACCAC
 CATCGTTACGTACCACCTTACCAAAGAGCTCAAGGATGCAGGAGCTGGGCTTCTTGTGCTGCCATGATT
 GCTGTAGTTCTGGGTATATTTCTCGATCTGTAGCTGGCTCCTATGATAATGAAGGAATTGCTATCTTTT
 GCATGCTGCTTACTACTACATGTGGATCAAGGCAGTGAAGACTGGTTCATCTATTGGGCTGCCAAGTG
 TGCCCTCGCTTATTTCTACATGGTCTTTCATGGGGAGGCTATGTGTTCTGATCAACTTGATTCCTCTA
 CATGCTCTGGTGTAATGCTGACAGGCCGTTTTCTACCCGATCTACGTAGCCTACTGTACTGTTTACT
 GCCTGGGCACCATTCTTTCTATGCAGATTTCTTTGTTGGTTCCAGCCCGCTTTTCATCAGAACACAT
 GGCAGCCTTTGGAGTGTGTTGGTCTCTGTGATCCATGCTTTCTGATGATTACCTGCGCAGCAAGTTGAAT
 CCACAGCAATTCGAAGTTCTTTCCGGAGTGTTATCTCCCTGGTTGGCTTTGTCCTCCTCACTGTGGGAG
 CTCTCCTCATGCTAACAGGAAAAATTTCTCCCTGGACAGGGCGTTTCTACTCTCTGCTGGATCCCTCTTA
 TGCTAAGAATAACATTCCCATTATTGCATCTGTTTCTGAGCACCAGCCCAACCTGGTCTTCTACTAT
 TTTGATCTACAGCTCCTTGTCTTCATGTTTCCAGTTGGCTCTATTACTGCTTTAGCAACCTGTCTGATG
 CTCGGATTTTTATCATATGATGGTGTGACCAGCATGTACTTTTCAGCTGTAATGGTGGCTAATGCT
 GGTATTGGCACCTGTTATGTGCATTCTTTCTGGCATTGGTGTTCAGGTTGCTCCACATATATGAAA
 AATCTGGACATAAGTCGCCAGACAAGAAGAGCAAGAAGCAACAGGATTCTACTACCCTATTAAGAATG
 AGGTGGCAGTGGGATGATACTGGTCACTGGCTTTTTTTCTCATCACCTACACGTTTCACTGATGGGT
 GACCAGTGAAGCCTATTCTTCTCCCTCATTGTACTGTCTGCTCGTGGTGGGGATGGCAGTAGGATCATT
 TTTGATGACTTCCGAGAAGCGTATTATTGGCTCCGTACAACTCCAGAGGATGCAAAAAGTCATGTCAT
 GGTGGGATTATGGCTACCAAATTAAGCAATGGCAATCGGACAATTTTAGTGGACAATAACACATGGAA
 TAATACCCATATTTCTCGAGTAGGGCAGGCAATGGCATCCACAGAAGAAAAGCCTATGAAATCATGAGG
 GAGCTTGATGTCAGCTATGTGCTTGTCAATTTTGGAGGCCTTACTGGGTATTCTTCGGATGATATCAACA
 AGTTTCTTTGGATGGTCCGGATTGGAGGAAGCACAGAGACAGGAAGACACATTAAGGAGAATGACTACTA
 TACTCCTACTGGGAATCCGTGTTGATCGTGAGGTTCTCCGGTCTGCTCAACTGCCTTATGTACAAA
 ATGTGTTACTACCGCTTTGGCAGGCTACACAGAAGCCAAGCGTCCACCAGGCTTTGACCGTGTTCGAA
 ATGCTGAGATTGGTAATAAAGACTTTGAGCTTGATGTCCTGGAGGAAGCGTATACCACAGAACACTGGCT
 AGTCAGGATATACAAGGTAAGGACCTGGATAATCGAGGCTTGTCAAGGACATAAACGTCACATTGTGCC
 CTGAGCATTATGCTTCGCACTGAGCGCTCATGTTGAGGACGCTGAAGATGTTTTTATATGCAGTTTAT
 AAGAACAGCCGGATGGGGTTAGAATTGTCTGCAAGTTTTGCCCTGGACAATATGGGCTGGGCCAAGTGAA
 ATGATTTTTATAATTCTGAGCAGGTTACCAATGAAATGTTATGGCTTACTTTGGTCAATTAAGAGAGG
 GGGGGGATTTTTTTAAATGTGCCTTATTTGTTTTGACTTAAATGGCTGATACGAGGATCACAGAAGT
 GAGCGGATGGAAGACCATATCCATGCTTAGGTCCCAATGAACCAGATAGGAGCATTTTTTTCTCCTA
 TCAGCAATCTCAAGGACTAGCTCTGGTTCAACAATGTAACAACAACCTTTGTCACACTTTTTTTGTTTTT
 TAGCACCCAGGTACAATGCTTTCCTTATAATGGTGCTTAATAAATTTTTATCAAATGAATAAAAAAAA AAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC037612
Insert Size: 2118 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:	<u>BC037612</u> , <u>AAH37612</u>
RefSeq Size:	2736 bp
RefSeq ORF:	2118 bp
Locus ID:	16430
Cytogenetics:	9 20.67 cM
Gene Summary:	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). STT3A is present in the majority of OST complexes and mediates cotranslational N-glycosylation of most sites on target proteins, while STT3B-containing complexes are required for efficient post-translational glycosylation and mediate glycosylation of sites that have been skipped by STT3A (By similarity).[UniProtKB/Swiss-Prot Function]