

## Product datasheet for **MG210155**

### Stt3a (NM\_008408) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stt3a (NM_008408) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stt3a
Synonyms:	AA408947; BB081708; ltm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210155 representing NM\_008408  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTAAGCTTGGATTTTTGCGATTGTCCTATGAGAAGCAGGACACACTTCTAAAGCTTCTCATCCTGT  
 CGATGGCTGCTGTGTTATCTTTTTCTACTCGTCTTTTTGCTGTGCTGAGATTTGAAAGTGTCATCCATGA  
 GTTTGATCCGTACTTTAATTATCGGACTACCCGGTTTCTGGCTGAGGAGGGGTTTTATAAATCCATAAC  
 TGGTTTGTGACCGGGCTTGGTACCCTTTGGGCCGAATCATTGGAGGAACAATTTACCCAGGTTTAAATGA  
 TCACCTTCTGCTGCAATCTACCATGTACTCCATTCTTCCATATCACCATGACATTCCGAATGTCTGTGT  
 TTTCTGGCCCCGCTTTCTCCTCTTCCACCACCATCGTTACGTACCACCTTACCAAAGAGCTCAAGGAT  
 GCAGGAGCTGGGCTTCTGCTGCTGCCATGATTGCTGTAGTTCCTGGGTATATTTCTCGACTGTAGCTG  
 GCTCCTATGATAATGAAGGAATTGCTATCTTTGTCATGCTGCTTACTTACTACATGTGGATCAAGGCAGT  
 GAAGACTGGTCCATCTATTGGGCTGCCAAGTGTGCCCTCGCTTATTTCTACATGGTCTCTTCATGGGGA  
 GGCATATGTGTTCCCTGATCAACTTGATTCCCTCTACATGTCCCTGGTCTAATGCTGACAGGCCGTTTTTCTC  
 ACCGGATCTACGTAGCCTACTGTACTGTTACTGCCTGGGCACCATTCTTTCTATGCAGATTTCCCTTGT  
 TGGTTTCCAGCCCGTCTTTTCATCAGAACATGGCAGCCTTTGGAGTGTGGTCTCTGTGAGTCCAT  
 GCTTTCGTAGATTACCTGCGCAGCAAGTTGAATCCACAGCAATTCGAAGTCTTTTCCGGAGTGTATCT  
 CCCTGGTTGGCTTTGCTCCTCACTGTGGGAGCTCCTCATGCTAACAGGAAAAATTTCTCCCTGGAC  
 AGGGCGTTTCTACTCTCTGCTGGATCCCTCTTATGCTAAGAATAACATTTCCATTTATGCATCTGTTTCT  
 GAGCACCAGCCCACAACCTGGTCTTCTACTATTTGATCTACAGCTCCTGTCTTCATGTTTCCAGTTG  
 GCCTCTATTACTGCTTTAGCAACCTGTCTGATGCTCGGATTTTTATCATCATGTATGGTGTGACCAGCAT  
 GTACTTTTCAGCTGTAATGGTGCGTCTAATGCTGGTATTGGCACCTGTTATGTGCATTCTTTCTGGCATT  
 GGTGTTTCCAGGTGCTGTCCACATATATGAAAAATCTGGACATAAGTCGCCAGACAAGAAGAGCAAGA  
 AGCAACAGGATTCTACTTACCCTATTAAGAATGAGGTGGCGAGTGGGATGATACTGGTCAATGGCTTTCTT  
 TCTCATCACCTACACGTTTCATTCGACTTGGGTGACCAGTGAAGCCTATTCTTCTCCCTCCATTGTTCTG  
 TCTGCTCGTGGTGGGATGGCAGTAGGATCATTTTTGATGACTCCGAGAAGCGTATTATTGGCTCCGTC  
 ACAATACTCCAGAGGATGCAAAAGTCATGTCATGGTGGGATTATGGCTACCAAATTAAGTCAATGGCAAA  
 TCGGACAATTTAGTGGACAATAACACATGGAATAATACCCATATTTCTCGAGTAGGGCAGGCAATGGCA  
 TCCACAGAAGAAAAGCCTATGAAATCATGAGGGAGCTTGATGTCAGCTATGTGCTTGCTATTTTGGAG  
 GCCTTACTGGGTATTCTTCGGATGATATCAACAAGTTTCTTTGGATGGTCCGGATTGGAGGAAGCACAGA  
 GACAGGAAGACATTAAGGAGAATGACTACTATACTCCTACTGGGAATTCCTGTTGATCGTGAGGGT  
 TCTCCGGTGTGCTCAACTGCCTTATGTACAAAATGTGTTACTACCGCTTTGGGCAGGTCTACACAGAAG  
 CCAAGCGTCCACCAGGCTTTGACCGTGTTCGAAATGCTGAGATTGGTAATAAAGACTTTGAGCTTGATGT  
 CCTGGAGGAAGCGTATACCACAGAACAACCTGGCTAGTCAGGATATACAAGGTAAGGACCTGGATAATCGA  
 GGCTTGTCAAGGACA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210155 representing NM\_008408  
Red=Cloning site Green=Tags(s)

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MTKLGFLRLSYEKQDTLLKLLILSMAAVLSFSTRLFAVLRFEVSIHEFDYPFNYRTRTRFLAEEGFYKFHN
WFDDRAWYPLGRIIGGTIYPGLMITSAAIYHVLHFFHITIDIRNVCVFLAPLFSSFTTIVTYHLTKELKD
AGAGLLAAMIIVPGYISRSVAGSYDNEGIAIFCMLLTYYMWIKAVKTGSIYAAKCALAYFYMVSSWG
GYVFLINLIPLHVLVLMLTGRFSHRIYVAYCTVYCLGTILSMQISFVGFQPVLSSEHMAAFGVFGLCQIH
AFVDYLRSKLNPPQFEVLFRSVISLVGFVLLTVGALLMLTGKISPWTGRFYSLLDPSYAKNNIPIIASVS
EHQPTTWSYYFDLQLLVFMFPVGLYYCFSNLSDARIFIIMYGVTSMYFSAVMVRMLVLAAPVMCILSGI
GVSQVLSTYMNKLDISRDKSKKQDSTYPIKNEVASGMILVMAFFLITYTFHSTWVTSEAYSSPSIVL
SARGGDGSRIFDDFREAYYWL RHNTPEDAKVMSWWDYGYQITAMANRTILVDNNTWNNTHISRVGQAMA
STEEKAYEIMRELDVSYVLVIFGGLTGYSSDDINKFLWMVRIGGSTETGRHIKENDYYTPTGEFRVDREG
SPVLLNCLMYKMCYYRFQVYTEAKRPPGFDRVRNAEIGNKDFELDVLEEAYTTEHWLVRIYKVKDLNDR
GLSRT
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008408

**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:**

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\\_008408.5](#)

**RefSeq Size:** 2697 bp

**RefSeq ORF:** 2118 bp

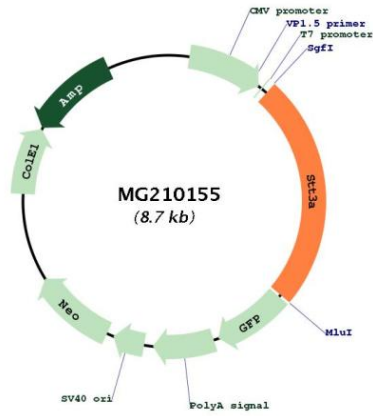
**Locus ID:** 16430

**UniProt ID:** [P46978](#)

**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]

Product images:



Circular map for MG210155