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Product datasheet for MR210156

Stt3a (NM_008408) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stt3a (NM_008408) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stt3a
Synonyms:	AA408947; BB081708; Itm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210156 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTAAGCTTGGATTTTTGCGATTGTCCTATGAGAAGCAGGACACACTTCTAAAGCTTCTCATCCTGT
CGATGGCTGCTGTGTTATCTTTTTCTACTCGTCTTTTTGCTGTGCTGAGATTTGAAAGTGTCATCCATGA
GTTTGATCCGTACTTTAATTATCGGACTACCCGGTTTCTGGCTGAGGAGGGGTTTTATAAATTCCATAAC
TGGTTTGATGACCGGGCTTGGTACCCTTTGGGCCGAATCATTGGAGGAACAATTTACCCAGGTTTAATGA
TCACTTCTGCTGCAATCTACCATGTACTCCATTTCTTCCATATCACTATTGACATTCGGAATGTCTGTGT
TTTCCTGGCCCCACTTTTCTCCTCTTTCACCACCATCGTTACGTACCACCTTACCAAAGAGCTCAAGGAT
GCAGGAGCTGGGCTTCTTGCTGCTGCCATGATTGCTGTAGTTCCTGGGTATATTTCTCGATCTGTAGCTG
GCTCCTATGATAATGAAGGAATTGCTATCTTTTGCATGCTGCTTACTTACTACATGTGGATCAAGGCAGT
GAAGACTGGTTCCATCTATTGGGCTGCCAAGTGTGCCCTCGCTTATTTCTACATGGTCTCTTCATGGGGA
GGCTATGTGTTCCTGATCAACTTGATTCCTCTACATGTCCTGGTGCTAATGCTGACAGGCCGTTTTTCTC
ACCGGATCTACGTAGCCTACTGTACTGTTTACTGCCTGGGCACCATTCTTTCTATGCAGATTTCCTTTGT
TGGTTTCCAGCCCGTCCTTTCATCAGAACACATGGCAGCCTTTGGAGTGTTTGGTCTCTGTCAGATCCAT
GCTTTCGTAGATTACCTGCGCAGCAAGTTGAATCCACAGCAATTCGAAGTTCTTTTCCGGAGTGTTATCT
CCCTGGTTGGCTTTGTCCTCCTCACTGTGGGAGCTCTCCTCATGCTAACAGGAAAAATTTCTCCCTGGAC
AGGGCGTTTCTACTCTCTGCTGGATCCCTCTTATGCTAAGAATAACATTCCCATTATTGCATCTGTTTCT
GAGCACCAGCCCACAACCTGGTCTTCCTACTATTTTGATCTACAGCTCCTTGTCTTCATGTTTCCAGTTG
GCCTCTATTACTGCTTTAGCAACCTGTCTGATGCTCGGATTTTTATCATCATGTATGGTGTGACCAGCAT
GTACTTTTCAGCTGTAATGGTGCGTCTAATGCTGGTATTGGCACCTGTTATGTGCATTCTTTCTGGCATT
GGTGTTTCCCAGGTGCTGTCCACATATATGAAAAATCTGGACATAAGTCGCCCAGACAAGAAGAGCAAGA
AGCAACAGGATTCTACTTACCCTATTAAGAATGAGGTGGCGAGTGGGATGATACTGGTCATGGCTTTTTT
TCTCATCACCTACACGTTTCATTCGACTTGGGTGACCAGTGAAGCCTATTCTTCTCCCTCCATTGTACTG
TCTGCTCGTGGTGGGGATGGCAGTAGGATCATTTTTGATGACTTCCGAGAAGCGTATTATTGGCTCCGTC
ACAATACTCCAGAGGATGCAAAAGTCATGTCATGGTGGGATTATGGCTACCAAATTACTGCAATGGCAAA
TCGGACAATTTTAGTGGACAATAACACATGGAATAATACCCATATTTCTCGAGTAGGGCAGGCAATGGCA
TCCACAGAAGAAAAAGCCTATGAAATCATGAGGGAGCTTGATGTCAGCTATGTGCTTGTCATTTTTGGAG
GCCTTACTGGGTATTCTTCGGATGATATCAACAAGTTTCTTTGGATGGTCCGGATTGGAGGAAGCACAGA
GACAGGAAGACACATTAAGGAGAATGACTACTATACTCCTACTGGGGAATTCCGTGTTGATCGTGAGGGT
TCTCCGGTGCTGCTCAACTGCCTTATGTACAAAATGTGTTACTACCGCTTTGGGCAGGTCTACACAGAAG
CCAAGCGTCCACCAGGCTTTGACCGTGTTCGAAATGCTGAGATTGGTAATAAAGACTTTGAGCTTGATGT
CCTGGAGGAAGCGTATACCACAGAACACTGGCTAGTCAGGATATACAAGGTAAAGGACCTGGATAATCGA
GGCTTGTCAAGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

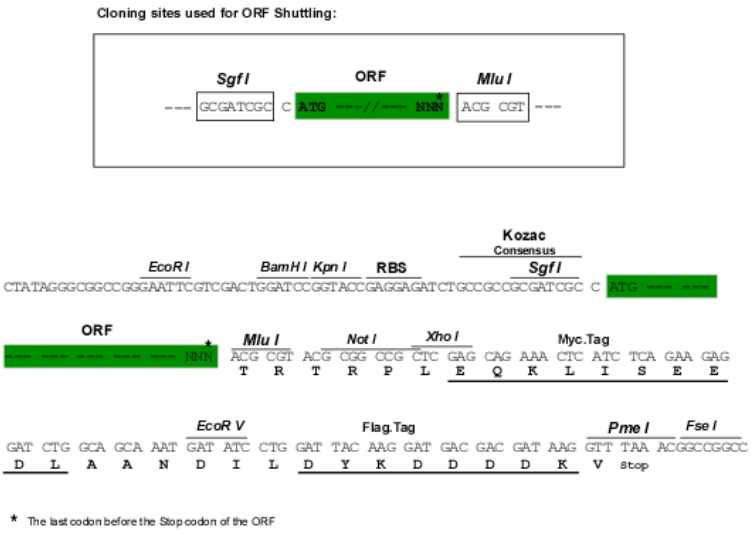
>MR210156 protein sequence
Red=Cloning site Green=Tags(s)

MTKLGFLRLSYEKQDTLLKLLILSMAAVLSFSTRLFAVLRFESVIHEFDPYFNYRTTRFLAEEGFYKFHN
WFDDRAWYPLGRIIGGTIYPGLMITSAAIYHVLHFFHITIDIRNVCVFLAPLFSSFTTIVTYHLTKELKD
AGAGLLAAAMIAVVPGYISRSVAGSYDNEGIAIFCMLLTYYMWIKAVKTGSIYWAAKCALAYFYMVSSWG
GYVFLINLIPLHVLVLMLTGRFSHRIYVAYCTVYCLGTILSMQISFVGFQPVLSSEHMAAFGVFGLCQIH
AFVDYLRSKLNPQQFEVLFRSVISLVGFVLLTVGALLMLTGKISPWTGRFYSLLDPSYAKNNIPIIASVS
EHQPTTWSSYYFDLQLLVFMFPVGLYYCFSNLSDARIFIIMYGVTSMYFSAVMVRLMLVLAPVMCILSGI
GVSQVLSTYMKNLDISRPDKKSKKQQDSTYPIKNEVASGMILVMAFFLITYTFHSTWVTSEAYSSPSIVL
SARGGDGSRIIFDDFREAYYWLRHNTPEDAKVMSWWDYGYQITAMANRTILVDNNTWNNTHISRVGQAMA
STEEKAYEIMRELDVSYVLVIFGGLTGYSSDDINKFLWMVRIGGSTETGRHIKENDYYTPTGEFRVDREG
SPVLLNCLMYKMCYYRFGQVYTEAKRPPGFDRVRNAEIGNKDFELDVLEEAYTTEHWLVRIYKVKDLDNR
GLSRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008408

ORF Size: 2118 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).

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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_008408.1
RefSeq Size:	2697 bp
RefSeq ORF:	2118 bp
Locus ID:	16430
UniProt ID:	P46978
Cytogenetics:	9 20.67 cM
MW:	80.6 kDa
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]

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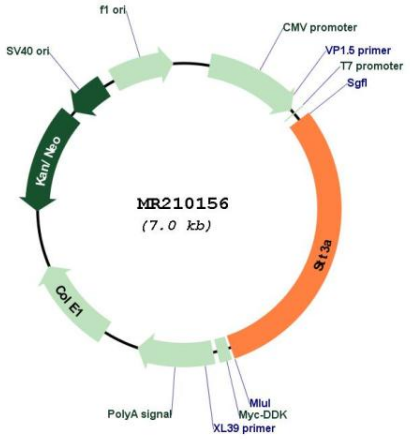
Product images:



Circular map for MR210156

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