

Product datasheet for **MC209883**

St6galnac6 (NM_001025310) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: St6galnac6 (NM_001025310) Mouse Untagged Clone
Tag: Tag Free
Symbol: St6galnac6
Synonyms: Siat7f; ST6GalNAcVI
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209883 representing NM_001025310
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTGGTGTGATCCTCTTTGCCCTCATCACCATCCTCATCC
 TCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTACGGCTCCCTGCGGGCCGCACGCGTCGGCCAGT
 CAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCCCTATCCTCGGCAACAAGACGCTGCCGTCCAGG
 TGCAACCAGTGTGTGATCATCACCAGCTCCAGCCACCTGCTGGGCACCAAACTGGGCCCTGAGATTGAGC
 GGGCTGAGTGCACCATCCGCATGAACGATGCTCCACCTCTGGCTACTCGGCTGACGTCGGAAACAAAAC
 CACCTTCCGCGTAGTGGCCATTCCAGTGTATTCCGTGTGCTGCGGAAGCCCCAGGAATTTGTCAACCGG
 ACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCAACAAGATGCAGAAGCCCCAGGGCAGCCTCCTGC
 GCGTCATCCAGCGGGCGGCCTCATGTTCCCGAACATGGAGGCCATGCCGTCTCTCCGCCCGCATGCA
 GCAGTTTGACGACCTCTCCGGGTGAGACGGGCAAGGACAGGAAAAGTCCATTCTGGTTGAGCAGC
 GGCTGGTTTACCATGGTATTGCGGTGGAATTGTGTACCATGTGCACGTGTATGGCATGGTCCCTCCTG
 ACTACTGCAGCCAGCGCCCGCCTGCAGCGCATGCCATACCACTACTATGAACCAAGGGCCGGACGA
 GTGTGTACCTACATCCAGAACGAGCACAGCCGTAAGGGCAATCACCACCGCTTCATCACCGAGAAGAGG
 GTCTTCTGCTCCTGGGCCAACTCTACGGTATCACCTTCTCCACCCCTCCTGGAC**TAG**

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001025310
Insert Size: 900 bp



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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>NM_001025310.2</u> , <u>NP_001020481.1</u>
RefSeq Size:	2383 bp
RefSeq ORF:	900 bp
Locus ID:	50935
UniProt ID:	<u>Q9JM95</u>
Cytogenetics:	2 B
Gene Summary:	<p>Alpha-2,6-sialyltransferase involved in the synthesis of alpha-series gangliosides. Has activity toward GD1a, GT1b and GM1b. Has no activity toward glycoproteins. Responsible for the biosynthesis of DSGG (disialylgalactosylgloboside) from MSGG (monosialylgalactosylgloboside) in kidney.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, initiates translation at a downstream start codon and uses an alternate splice splice site in the 3' terminal exon, compared to variant 4. This results in a frameshift and an early stop codon, compared to variant 4. Variants 2 and 6 encode the same isoform (2), which is shorter and has a distinct C-terminus, compared to isoform 4.</p>