

## Product datasheet for **MC209882**

### St6galnac6 (NM\_001025311) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (NM_001025311) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	St6galnac6
Synonyms:	Siat7f; ST6GalNAcVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209882 representing NM_001025311 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGAAACTCAGGGGCCCCCTCTTGGACACTGTGGGTCCGGTACCTGCTGGAAGGAGCAGCGGTGAC  
CAGTGTGGTGATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAACGAGGT  
CTTCCACTACGGCTCCCTGCGGGGCCGACGCGTCGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGC  
GCCTACTTCCCTATCCTCGCAACAAGACGCTGCCGTCCAGGTGCAACCAGTGTGTGATCATCACCAGCT  
CCAGCCACCTGCTGGCACCAAACCTGGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGA  
TGCTCCCACCTCTGGTACTCGGCTGAGTCGAAACAAACACCTTCCGCGTGTGGCCATTCCAGT  
GTATTCGGTGTGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGTGTTCATCTTCTGGG  
GACCCCAACAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGGTATCCAGCGGGCGGGCCTCATGTT  
CCCGAACATGGAGGCCTATGCCGTCTCTCCGCCCCGATGCAGCAGTTTGACGACCTCTTCCGGGTGAG  
ACGGGCAAGGACAGGGAAAAGTCCCATTCTGGTTGAGCACGGGCTGGTTACCATGGTATTGCGGTGG  
AATTGTGTGACCATGTGCACGTGTATGGCATGGTCCCTCTGACTACTGCAGCCAGCGGGCCCCGCTGCA  
GCGCATGCCATACCACTACTATGAACCAAGGGGCCGGACGAGTGTGTACCTACATCCAGAACGAGCAC  
AGCCGTAAGGGCAATCACCACCGCTTATCACCAGAGAAGGGTCTTCTCGTCTGGGCCCAACTCTACG  
GTATCACCTTCTCCACCCCTCCTGGAC**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_001025311



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<b>Insert Size:</b>	942 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001025311.2</a> , <a href="#">NP_001020482.1</a>
<b>RefSeq Size:</b>	2293 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	50935
<b>UniProt ID:</b>	<a href="#">Q9JM95</a>
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	<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 (3) contains an alternate 5' exon structure and uses an alternate splice site in the 3' coding region, resulting in a frameshift and an early stop codon, compared to variant 4. It encodes isoform 3, which is shorter and has distinct N- and C-termini, compared to isoform 4.</p>