

Product datasheet for **MC209884**

St6galnac6 (NM_016973) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: St6galnac6 (NM_016973) 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: >MC209884 representing NM_016973
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTGCTCGAGGCCCGCCAGCCAGTGTGACCCACAACCCTGCCCGGGCCACCTGCCGGACGCT
 GGCCTTACCCTTCAGCAGACGCCGGAGAGAGATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTGTTGT
 GATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTAC
 GGCTCCCTGCGGGCCGACGCGTCGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCC
 CTATCCTCGGCAACAAGACGCTGCCGTCCAGGTGCAACCAAGTGTGTGATCATCACCAGCTCCAGCCACCT
 GCTGGGCACAAACTGGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGATGCTCCCACC
 TCTGGCTACTCGGCTGACGTCGGAAACAAAACCACCTTCCGCGTAGTGGCCCATTCAGTGTATTCCGCTG
 TGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCCAAA
 CAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGCGTCATCCAGCGGGCGGGCCTCATGTTCCCGAACATG
 GAGGCCATGCCGTCTCTCCCGCCGCATGCAGCAGTTTGACGACCTTCCGGGGTGGAGACGGGCAAGG
 ACAGGGAAAAGTCCCATTCTGGTTGAGCACGGGCTGGTTTACCATGGTATTGCGGTGGAATTTGTGTA
 CCATGTGCACGTGTATGGCATGGTCCCTCCTGACTACTGCAGCCAGCGGCCCGCCTGCAGCGCATGCCA
 TACCACTACTATGAACCAAGGGGCCGACGAGTGTGTACCTACATCCAGAACGAGCACAGCCGTAAGG
 GCAATCACCACCGCTTATCACCAGAGAAGGGTCTTCTCGTCTGGGCCCAACTCTACGGTATCACCTT
 CTCCCACCCCTCTGGACCTAG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_016973



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Insert Size:	1002 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>NM_016973.3</u> , <u>NP_058669.1</u>
RefSeq Size:	2438 bp
RefSeq ORF:	1002 bp
Locus ID:	50935
UniProt ID:	<u>Q9JL95</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 (1) uses an alternate splice site in the 3' coding region, compared to variant 4. This results in a frameshift and an early stop codon, compared to variant 4. It encodes isoform 1, which is shorter and has a distinct C-terminus, compared to isoform 4.</p>