

Product datasheet for MR217869

St6galnac6 (NM_016973) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (NM_016973) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6galnac6
Synonyms:	Siat7f; ST6GalNAcVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217869 representing NM_016973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTGCTCGAGGCCCGCCAGCCAGTGTGACCCACAACCCTGCCCGGGCCACCTGCCGGACGCT
GGCCTCTACCCTTCAGCAGACGCCGGAGAGAGATGAGTAGCAACAAGAGCAGCGGTGAGGATGTTTGT
GATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTAC
GGCTCCCTGCGGGCCGACGCGTGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCC
CTATCCTCGGCAACAAGACGCTGCGTCCAGGTGCAACCAGTGTGTGATCATCACCAGCTCCAGCCACCT
GCTGGGCACAAACTGGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGATGCTCCCACC
TCTGGCTACTCGGCTGACGTGCGAAACAAAACCACCTTCCGCGTAGTGGCCCATCCAGTGTATCCGCTG
TGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCCAAA
CAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGCGTATCCAGCGGGCGGGCCTCATGTTCCCGAACATG
GAGGCCTATGCCGTCTCTCCGCCCGCATGCAGCAGTTTGACGACCTCTTCCGGGGTGGAGACGGCAAGG
ACAGGGAAAAGTCCCATTCTGGTTGAGCACGGGCTGGTTTACCATGGTATTGCGGTGGAATTGTGTGA
CCATGTGCACGTGTATGGCATGGTCCCTCCTGACTACTGCAGCCAGCGGGCCCGCCTGCAGCGCATGCCA
TACCACTACTATGAACCAAGGGCGGACGAGTGTGTACCTACATCCAGAACGAGCAGACGCCGTAAGG
GCAATCACCACCGCTTATCACCAGAGAAGGGTCTTCTCGTCTGGGCCCAACTCTACGGTATCACCTT
CTCCACCCCTCCTGGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217869 representing NM_016973
Red=Cloning site Green=Tags(s)

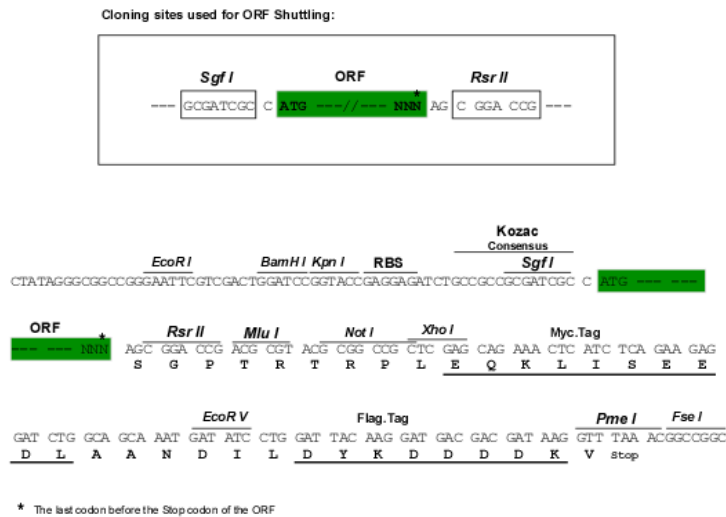
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MACSRPPSQCDPTTLPGPAGRWPLPFSRRRREMSSNKEQRSVAVFVILFALITILILYSSNSANEVFHY
GSLRGRTRRPVNLKKWSFSSAYFPILGNKTLPSRCNQCVIITSSSHLLGTLGPEIERAECTIRMNDAPT
SGYSADVGNKTTFRVVAHSSVFRVLRKPQEFVNRTPETVFIWGPNNKMQKPQGSLLRVIQRAGLMFPNM
EAYAVSPARMQFDDLFRGETGKDREKSHSWLSTGWFTMVI AVELCDHVHVYGMVPPDYCSQRPLQRMP
YHYEYKPGPDECVTYIQNEHSRKGNHHRFITEKRVFSSWAQLYGITFSHPSWT
```

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_e02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_016973

ORF Size: 999 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_016973.3](#), [NP_058669.1](#)

RefSeq Size: 2457 bp

RefSeq ORF: 1002 bp

Locus ID: 50935

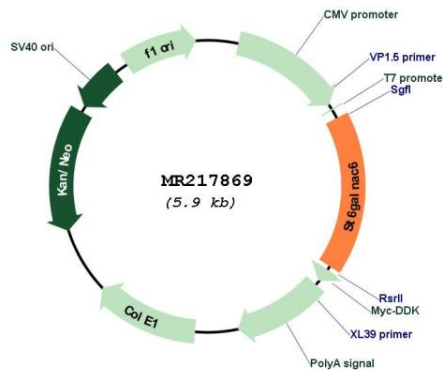
UniProt ID: [Q9JIM95](#)

Cytogenetics: 2 B

MW: 38.6 kDa

Gene Summary: 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]

Product images:



Circular map for MR217869