

Product datasheet for **MR204227**

St6galnac4 (NM_011373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac4 (NM_011373) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6galnac4
Synonyms:	SIAT7-D; Siat7d; ST6GalNAcIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204227 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGCCCGGGCCGCTTCTGCTCCTCACACTGTGCATCTTGACATTCTCTGCTGTCTGTCTTCC
TGTGCTGCTGGGCTGCCTGCCGCTCTGCCTGGCAACCTGCCTGGACCGCCACCTCCCTGCGCCCCCAG
ATCCACTGTGCCAGGGCCCTGCACTTCAGTGGCTACAGCAGCGTGCCAGACGGGAAGCCTTTATCCGA
GAACTGTGCCACAGCTGTGCGGTGGTGTCCAGCTCTGGCCAGATGCTGGGTTTCAAGCCTGGGTGCCAGA
TCGATGGCGCAGAGTGCCTGCTACGCATGAACCAGGCACCCACCGTGGGCTTTGAGGAGGACGTGGGCCA
GCGCAGCACTCTGCGCGTGATCTCTCACACAAGTGTGCCATTGCTTCTGCGCAACTACTCACACTATTTT
CAGCATGCCCGAGACACGCTCTACGTGGTGTGGGGCCAGGGCAGGCACATGGACAGGGTGTGGGCGGCC
GCACCTACCGAACGTTGCTGCAGCTCACCAAGATGTATCCAGGCCTGCAAGTGTACACCTTCACTGAACG
CATGATGGCCTACTGTGACCAGATCTTCCAAGATGAGACAGGCAAGAACCGGAGACAATCAGGCTCCTTT
CTCAGCACCGGTTGGTTCACCATGATTCTGGCCCTGGAGCTGTGCGAGGAGATCGTGGTCTACGGGATGG
TCAGCGATAGTTACTGCAGCGAGAAGAGTCCCCGCTCCGTGCCCTACCACTACTTTGAGAAGGGCCGGCT
AGATGAGTGTGAGATGTACCGTTTGCATGAGCAGGCTCCAAGGAGCGCCCATCGCTTCATTACCGAGAAG
GCTGTGTTCTCCCGCTGGGCCAAGAAGCGACCCATCGTGTTCGCCACCCGTCCTGGAGGGCCAAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR204227 protein sequence
Red=Cloning site Green=Tags(s)

MKAPGRLLLLLTLCLTFSAVCVFLCCWACLPLCLATCLDRHLPAAPRSTVPGPLHFGSYSSVPDGKPLIR
 ELCHSCAVVSSSQMLGSLGAQIDGAECVLRMNQAPTGVFEEDVQORSTLRVISHTSVPLLLRNYSHYF
 QHARDTLVYVWGQGRHMDRVLGGRTYRLLQLTRMYPGLQVYTFTERMMAYCDQIFQDETGNRRRQSGSF
 LSTGWFTMILALELCEEIVVYGMVSDSYCSEKSPRSVPYHYFEKGRLDECQMYRLHEQAPRSAHRFITEK
 AVFSRWAKKRPIVFAHPSWRAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011373

ORF Size: 909 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_011373.3](#), [NP_035503.1](#)

RefSeq Size: 3994 bp

RefSeq ORF: 909 bp

Locus ID: 20448

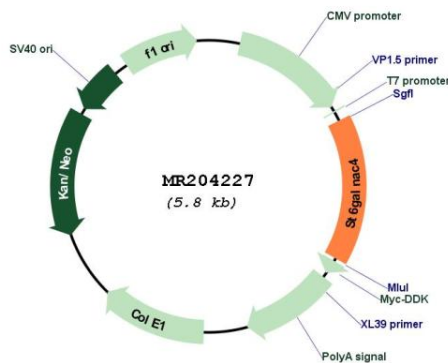
UniProt ID: [Q9R2B6](#)

Cytogenetics: 2 B

MW: 34.2 kDa

Gene Summary: Involved in the biosynthesis of ganglioside GD1A from GM1B. Transfers CMP-NeuAc with an alpha-2,6-linkage to GalNAc residue on NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc of glycoproteins and glycolipids. Prefers glycoproteins to glycolipids.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204227