

Product datasheet for **MR204273**

St6galnac3 (NM_011372) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac3 (NM_011372) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6galnac3
Synonyms:	Siat7c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204273 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGCATCCTCAAGAGGAAGCCCGTGCTTGTGGTGAGCTTCATAGCCCTGTGCATCTTGCTGCTAG
 CCATGCGCCTTGCAATGATGCGACTTTCCTTTGCTCCTGAAGTCTTGGACAGCCTAAGACCAATG
 GATCCCTTTGCCCTACACATTCAGGCAGCCTCTCGAACTCACTATGGATACATAAATGTGAGGACCCAA
 GAGCCTTTGCAACTGAACTGTAACCACTGTGCCATCGTGTCAAATTCAGGTCAAATGGTCGGGCAGAAGG
 TGGGGGAAGAGATAGACCATGCATCCTGCATCTGGAGAATGAACAACGCCCAACCAAGGGCTTTGAGGA
 AGATGTCGGCTACATGACAATGGTCCGAGTTGTGTACATACCAGTGTCCCTCTCTTGCTGAAAAATCCT
 GACTATTTTTTCAAAGAAGCAAGCAGGACCATTATGTTATCTGGGGCCCTTTCCGCAACATGAGGAAGG
 ATGGTAATGGCATCGTGTACAACATGTTAAAGAAGACAGTTGATGCCTATCCAGATGCGCAGATCTACGT
 GACCACAGAGCAGCAGATGACTCACTGCGATAGAGTGTTAAAGGATGAGACTGGAAAGGACAGAGTCCAG
 TCTGGCTCCTACCTCAGCACTGGCTGGTTACCTTTATCCTGGCTATGGATGCCTGCTACAGTATCCACG
 TCTACGGGATGATAAATGAAACCTACTGCAAGACAGAAGGGTATAGAAAAGTCCCTATCACTACTATGA
 ACAAGGGAAGATGAGTGTAAACGAATATCTTCTCCATGAACATGCCCGTATGGGGACACAGGTTTCATC
 ACCGAGAAGAAAGTGTTTGCCAAGTGGCCAAGAAGCACAGAATAGTATTACACACCCGAACCTGGACGC
 TGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR204273 protein sequence
Red=Cloning site Green=Tags(s)

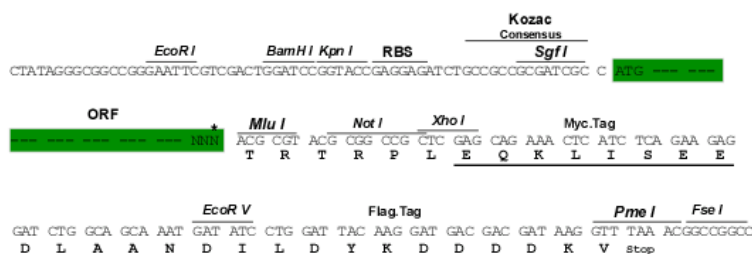
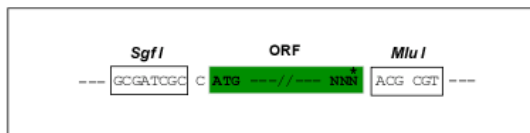
MACILKRKPVLVVSFIALCILLAMRLVNDATFPLLLNCFGQPKTKWIPLPYTFRQPLRTHYGYINVRTQ
EPLQLNCNHCAIVSNSGQMVGQKVGEEIDHASCIRWMNNAPTKGFEEDVGMYTMVVRVVSHTSVPLLLKNP
DYFFKEASRTIYVIWGPFRNMNRKDNGIYVNMMLKKTVDAYPDAQIYVTTEQQMTHCDRVFKDETGKDRVQ
SGSLVSTGWKFTILAMDACYSIHVYGMINETYCKTEGYRKVPYHYHVEQKDECNELLHEHAPYGGHRFI
TEKKVAGKAKKWHRIVETHPNVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 011372

ORF Size: 915 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011372.2](#), [NP_035502.1](#)

RefSeq Size: 3885 bp

RefSeq ORF: 918 bp

Locus ID: 20447

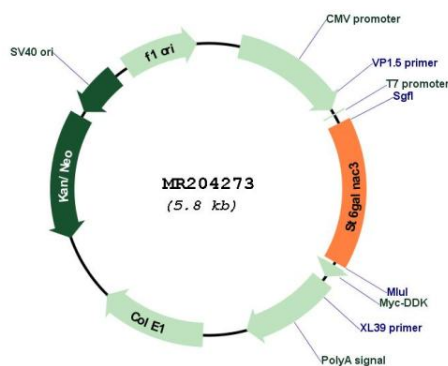
UniProt ID: [Q9WUV2](#)

Cytogenetics: 3 H3

MW: 35.4 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. ST6GalNAcIII prefers glycolipids to glycoproteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204273