

## Product datasheet for **MR204979**

### St6galnac5 (NM\_012028) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac5 (NM_012028) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6galnac5
Synonyms:	A1851940; Siat7e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204979 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGACCCGTGATGCGCCATGGTCTGGCAGTGTGTTTAGTGCTCACTACCATGTGCACCAGCTTGTTC  
TCGTGTACAGCAGCCTCGGCAGCCAGAAGGAGCGGCCCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA  
GCAGGCGCAACCGGACTGGCAGCACGCAGCTTGTGGAGAGCAGTCCCCAGCCACGTAGAACCGCCCC  
GCAGGACCCCGCAGCTCGAAGGATACCTCGGTGTAGCAGACCACAAGCCCTGAAAATGCATTGCAAGG  
ATTGCGCCCTGGTGACCAGCTCAGGGCATCTGCTGCGTAGTCAGCAGGGCCCCACATCGACCAGACAGA  
GTGTGTTATCCGCATGAATGATGCCCCACCCGAGGCTATGGGCTTGACGTGGGCAACCGCACGAGCCTG  
CGGGTCATCGCACATTCAGCATCCAGAGGATCCTCCGCAACCGCCATGACCTGCTCAATGTGAGCCAGG  
GCACCGTGTTCATCTTCTGGGGCCCGCAGCTACATGCGCCGGGATGGCAAGGGCCAGGCGTACAACAA  
CCTACAGCTCCTTAGCCAAGTGCTGCCTCGGCTGAAGGCCTTCATGATCACGCGCCACAGGATGTGCAG  
TTCGATGAGCTCTTAAGCAGGAGACTGGCAAAGACAGGAAGATCTCCAACACTTGGCTGAGCACTGGCT  
GGTTCACCATGACAATTGCTCTGGAGCTGTGTGACAGGATCGATGTTACGGCATGGTGGCCCCAGACTT  
CTGCAGGGACCCAAAGCATCCTCCGTACCCTATCATTACTATGAGCCTTCAGGACCCGATGAATGTACA  
ATGTACCTCTCTCAGAGCGAGGACGCAAGGGCAGTCATCACCGTTTCATTACAGAGAAACGGGTGTTTA  
AGAACTGGGCACGGACATTCAACATTCACTTTTTCCAACCAGACTGAAAACCGAATCACCCGCTGTGAA  
TCATGCCGAGGGTAAGCCTGTGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204979 protein sequence  
Red=Cloning site Green=Tags(s)

MKTLMRHGLAVCLVLTMMCTSLLLVYSSLGSKERPPQQQQQQQQQAATATGSTQLVESSPQRRTAP  
 AGPRQLEGYLGVADHKPLKMHCKDCALVTSSGHLLRSQQGPHIDQTECVIRMNDAPTRGYGLDVGNRSL  
 RVIAHSSIQRILRNHDLLNVSQGTVFIFWGPSSYMRRDGKGQAYNNLQLLSQVLPRLKAFMITRHRMLQ  
 FDELFKQETGKDRKISNTWLSTGWFTMTIALELCRIDVYGMVPPDFCRDPKHPSPVYHYEYPSGPDECT  
 MYLSHERGRKGSRRHFITEKRVFKNWARTFNIHFFQPDWKPESPAVNHAEGKPVF

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\_012028

**ORF Size:** 1008 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\\_012028.5](#)

**RefSeq Size:** 2026 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 26938

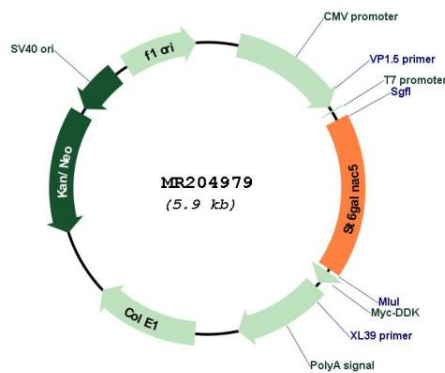
**UniProt ID:** [Q9QYJ1](#)

**Cytogenetics:** 3 H3

**MW:** 38.3 kDa

**Gene Summary:** Involved in the biosynthesis of ganglioside GD1a from GM1b. It exhibits higher activity with glycolipids than with glycoproteins.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204979