

## Product datasheet for **MG217869**

### St6galnac6 (NM\_016973) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (NM_016973) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St6galnac6
Synonyms:	Siat7f; ST6GalNAcVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217869 representing NM_016973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGCTCGAGGCCCGCCAGCCAGTGTGACCCACAACCCTGCCCGGGCCACCTGCCGGACGCT  
GGCCTCTACCCTTCAGCAGACGCCGGAGAGAGATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTGTTGT  
GATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTAC  
GGCTCCCTGCGGGCCGACGCGTGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCC  
CTATCCTCGGCAACAAGACGCTGCCGTCCAGGTGCAACCAGTGTGTGATCATCACCAGCTCCAGCCACT  
GCTGGGCACAAACTGGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGATGCTCCCACC  
TCTGGCTACTCGGCTGACGTGCGAAACAAAACCACCTTCCGCGTAGTGGCCCATCCAGTGTATTCCGCTG  
TGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGGTTCATCTTCTGGGGACCCCCAAA  
CAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGCGTATCCAGCGGGCGGGCCTCATGTTCCCGAACATG  
GAGGCCTATGCCGTCTCTCCGCCGATGCAGCAGTTTGACGACCTCTTCCGGGGTGGAGACGGGCAAGG  
ACAGGGAAAAGTCCCATTCTGGTTGAGCACGGGCTGGTTTACCATGGTATTGCCGTGGAATTGTGTGA  
CCATGTGCACGTGTATGGCATGGTCCCTCCTGACTACTGCAGCCAGCGGGCCCGCCTGCAGCGCATGCCA  
TACCACTACTATGAACCAAGGGGCCGGACGAGTGTGTACCTACATCCAGAACGAGCACAGCCGTAAGG  
GCAATCACCACCGCTTATCACCAGAGAAGGGTCTTCTCGTCTGGGCCCAACTCTACGGTATCACCTT  
CTCCACCCCTCCTGGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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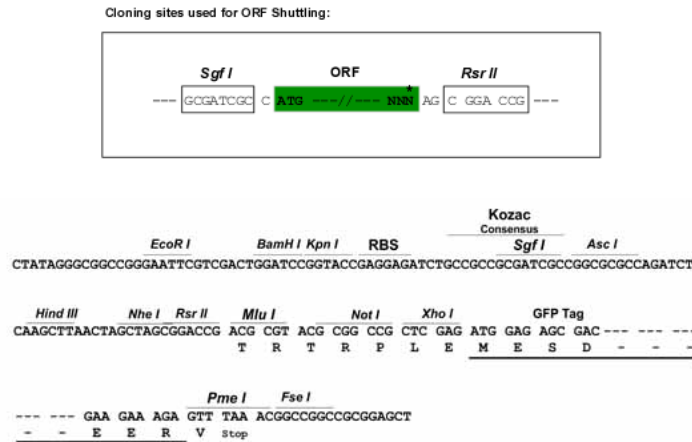
Protein Sequence: >MG217869 representing NM\_016973  
 Red=Cloning site Green=Tags(s)

MACSRPPSQCDPTTLPGPAGRWPLPFSRRRREMSNKEQRSVAVFVILFALITILILYSSNSANEVPHY  
 GSLRGRTRRPVNLKKWSFSSAYFPILGNKTLPSRCNQCVIITSSSHLLGTLGPEIERAECTIRMNDAPT  
 SGYSADVGNKTTFRVVAHSSVFRVLRKPQEFVNRTPETVFIWGPNNKMQKPKQGSLLRVIQRAGLMFPNM  
 EAYAVSPARMQQFDLFRGETGKDREKSHSWLSTGWFTMVI AVELCDHVHVYGMVPPDYCSQRPRLQRMP  
 YHYYEPKGPDECVTYIQNEHSRKGNNHHRFITEKRVFSSWAQLYGITFSHPSWT

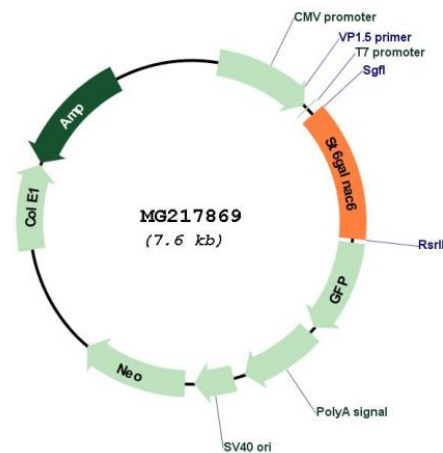
SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_016973

ORF Size: 999 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016973.3</a> , <a href="#">NP_058669.1</a>
<b>RefSeq Size:</b>	2457 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	50935
<b>UniProt ID:</b>	<a href="#">Q9JMJ95</a>
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	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]