

Product datasheet for **MG216393**

St6galnac6 (NM_001025311) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | St6galnac6 (NM_001025311) 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: | >MG216393 representing NM_001025311 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGAAACTCAGGGGCCCTCCTTGGACACTGTGGTCCGGTACCTGCTGGAAGGAGCAGCGGTGAG
CAGTGTGGTGTGATCCTCTTTGCCCTCATCACCATCCTCATCTCTACAGCTCCAACAGTGCCAACGAGGT
CTTCCACTACGGCTCCCTGCGGGGCCGACGCGTCCGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGC
GCCTACTTCCCTATCCTCGGCAACAAGACGCTGCCGTCCAGGTGCAACCAGTGTGTGATCATCACCAGT
CCAGCCACCTGCTGGGCACCAAACTGGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGA
TGCTCCACCTCTGGCTACTCGGCTGACGTCGGAAACAAACCACCTTCCGCGTAGTGGCCATTCCAGT
GTATTCGGTGTGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGTGTTCATCTTCTGGG
GACCCCAACAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGCGTCATCCAGCGGGCGGGCCTCATGTT
CCCGAACATGGAGGCTATGCCGTCTCTCCCGCCGCATGCAGCAGTTTGCAGCCTCTTCCGGGTGAG
ACGGGCAAGGACAGGGAAAAGTCCATTCTGGTTGAGCACGGGCTGGTTTACCATGGTATTGCGGTGG
AATTGTGTGACCATGTGCACGTGTATGGCATGGTCCCTCCTGACTACTGCAGCCAGCGGCCCGCCTGCA
GCGCATGCCATACCACTACTATGAACCAAGGGGCCGGACGAGTGTGTACCTACATCCAGAACGAGCAC
AGCCGTAAGGGCAATCACCACCGCTTATCACCAGAGAAGAGGGTCTTCTCGTCTGGGCCCAACTCTACG
GTATCACCTTCTCCACCCCTCCTGGACC

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



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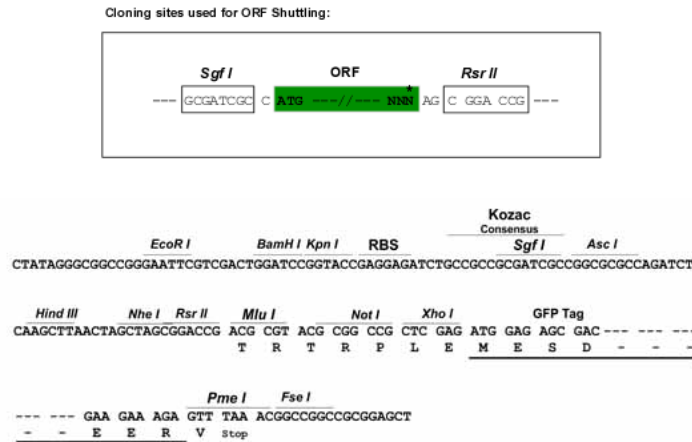
Protein Sequence: >MG216393 representing NM_001025311
 Red=Cloning site Green=Tags(s)

MMKLRGPLLGHCGSGTCWKEQRSVAVFVILFALITILILYSSNSANEVFFHYGSLRGRTRRPVNLKKWSFSS
 AYFPILGNKTLPSRCNQCVIITSSSHLLGTLGPEIERAECTIRMNDAPTSYGYSADVGNKTTFRVVAHSS
 VFRVLRKPQEFVNRTPETVFIWGPNNKMQKPQGSLLRVIQRAGLMFPNMEAYAVSPARMQQFDDLFRGE
 TGKDREKSHSWLSTGWFTMVIARELVDHVVHYGMVPPDYCSQRPRLQRMPYHYEPEKGPDECVTYIQNEH
 SRKGNHHRFITEKRVFSSWAQLYGITFSHPST

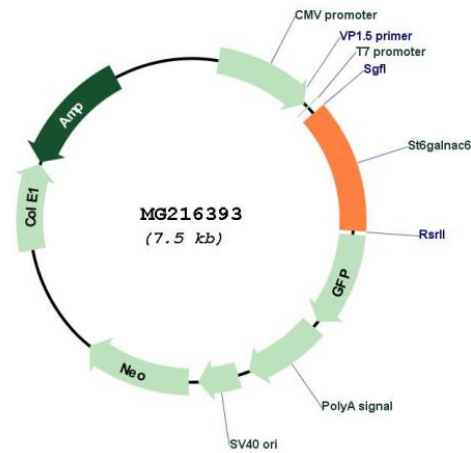
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025311

ORF Size: 939 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001025311.2](#), [NP_001020482.1](#)

RefSeq Size: 2288 bp

RefSeq ORF: 942 bp

Locus ID: 50935

UniProt ID: [Q9JMJ95](#)

Cytogenetics: 2 B

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]