

## Product datasheet for **MG202841**

### St6galnac6 (BC022924) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (BC022924) 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:	>MG202841 representing BC022924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGCTCGAGGCCCGCCAGCCAGTGTGACCCACAACCCTGCCCGGGCCACCTGCCGGACGCT  
GGCCTCTACCCTTCAGCAGACGCCGAGAGAGATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTGGT  
GATCCTCTTTGCCCTCATCACCATCCTCATCCTCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTAC  
GGCTCCCTGCGGGCCGACGCGTGGCCAGTCAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCC  
CTATCCTCGGCAACAAGACGCTGCCGGCCAGGTGCAACCAGTGTGTGATCATCACCAGCTCCAGCCACCT  
GCTGGGCACCAAAGTGGCCCTGAGATTGAGCGGGCTGAGTGCACCATCCGCATGAACGATGCTCCCACC  
TCTGGCTACTCGGCTGACGTGCGAAACAAAACCACTTTCGCGTAGTGGCCCATTCAGTGTATTCCGCTG  
TGCTGCGGAAGCCCCAGGAATTTGTCAACCGGACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCCAAA  
CAAGATGCAGAAGCCCCAGGGCAGCCTCCTGCGCGTATCCAGCGGGCGGGCCTCATGTTCCCGAACATG  
GAGGCCTATGCCGTCTCTCCGCCGCATGCAGCAGTTTGACGACCTCTTCCGGGGAAAAGTCCCATTCC  
CTGGT

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



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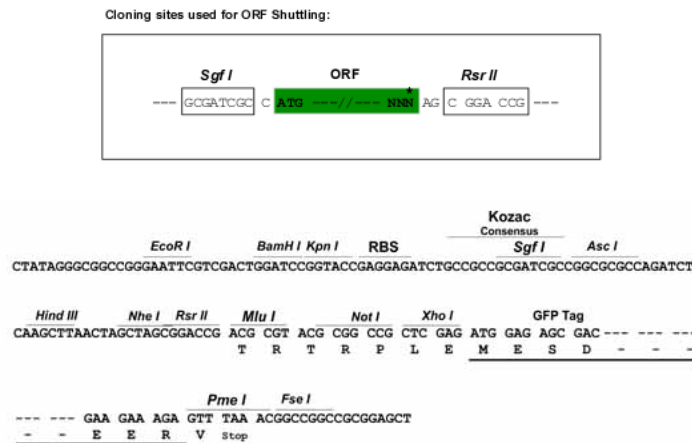
**Protein Sequence:** >MG202841 representing BC022924  
 Red=Cloning site Green=Tags(s)

MACSRPPSQCDPTTLPGPPAGRWLPLFSRRRREMSNKEQRSVAVFVILFALITILILYSSNSANEV FHY  
 GSLRGRTRRPVNLKKWSFSSAYFPILGNKTLPARCNQCVIITSSSHLLGTLKLP EIERAECTIRMNDAPT  
 SGYSADVGNKTTFRVVAHSSVFRVLRKPQEFVNRTPETVFIWGPNNKMQKPKQGSLLRVIQRAGLMFPNM  
 EAYAVSPARMQFDDLFRGKSPIPG

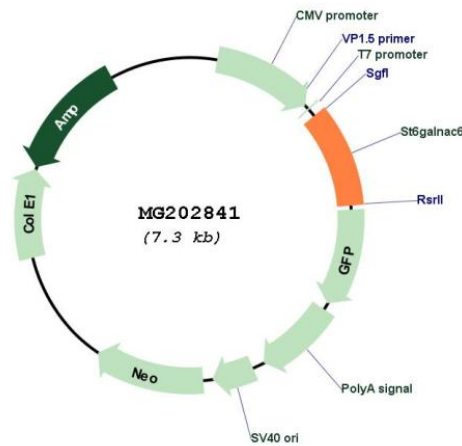
SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC022924

**ORF Size:** 705 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="#">BC022924.1</a>
<b>RefSeq Size:</b>	2378 bp
<b>RefSeq ORF:</b>	707 bp
<b>Locus ID:</b>	50935
<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]