

Product datasheet for **MG204227**

St6galnac4 (NM_011373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac4 (NM_011373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St6galnac4
Synonyms:	SIAT7-D; Siat7d; ST6GalNAcIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204227 representing NM_011373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCCCGGCCGCTTCTGCTCCTCACACTGTGCATCTTGACATTCTCTGCTGTCTGTCTTCC
TGTGCTGCTGGGCTGCCTGCCGCTCTGCCTGGCAACCTGCCTGGACCGCCACCTCCCTGCGCCCCCAG
ATCCACTGTGCCAGGGCCCTGCACTTCAGTGGCTACAGCAGCGTGCCAGACGGGAAGCCTTTATCCGA
GAACTGTGCCACAGCTGTGCGGTGGTGTCCAGCTCTGGCCAGATGCTGGGTTTCAAGCCTGGGTGCCAGA
TCGATGGCGCAGAGTGCCTGCTACGCATGAACAGGCACCCACCGTGGGTTTGAAGGAGACGTGGGCCA
GCGCAGCACTCTGCGCGTATCTCTCACACAAGTGTGCCATTGCTTCTGCGCAACTACTCACACTATTTT
CAGCATGCCCGAGACACGCTCTACGTGGTGTGGGGCCAGGGCAGGCACATGGACAGGGTGTGGGCGGCC
GCACCTACCGAACGTTGCTGCAGCTCACCAGAATGTATCCAGGCCTGCAAGTGTACACCTTCACTGAACG
CATGATGGCCTACTGTGACCAGATCTTCCAAGATGAGACAGGCAAGAACCGGAGACAATCAGGCTCCTTT
CTCAGCACCGTTGGTTCACCATGATTCTGGCCCTGGAGCTGTGCGAGGAGATCGTGGTCTACGGGATGG
TCAGCGATAGTTACTGCAGCGAGAAGAGTCCCCGCTCCGTGCCCTACCACTACTTTGAGAAGGGCCGGCT
AGATGAGTGTGAGATGTACCGTTTGCATGAGCAGGCTCCAAGGAGCGCCCATCGCTTCATTACCGAGAAG
GCTGTGTTCTCCGCTGGGCCAAGAAGCGACCCATCGTGTTCGCCACCCGTCCTGGAGGGCCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204227 representing NM_011373
Red=Cloning site Green=Tags(s)

MKAPGRLLLLLTLCLTFSAVCVFLCCWACLPLCLATCLDRHLPAAPRSTVPGPLHFSGYSSVPDGKPLIR
 ELCHSCAVYSSSQMLGSLGAQIDGAECVLRMNQAPTGVFEEDVQRSTLRVISHTSVPLLLRNYSHYF
 QHARDTLVYVWGQGRHMDRVLGGRTYRLLQLTRMYPGLQVYTFTERMMAYCDQIFQDETGNRRQSGSF
 LSTGWFTMILALELCEEIVVYGMVSDSYCSEKSPRSVPYHYFEKGRLEDCQMYRLHEQAPRSAHRFITEK
 AVFSRWAKKRPIVFAHPSWRAK

TRTRPLE - GFP Tag - V

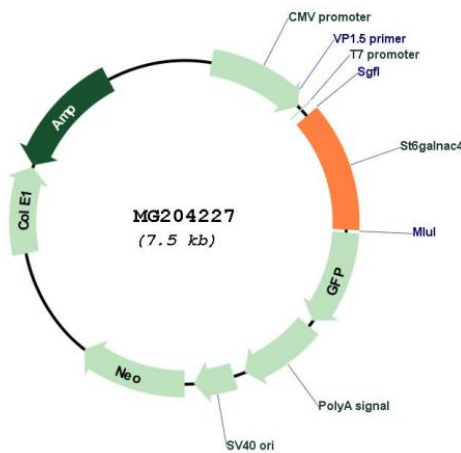
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011373

ORF Size: 906 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:	<ol style="list-style-type: none">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_011373.3 , NP_035503.1
RefSeq Size:	4406 bp
RefSeq ORF:	909 bp
Locus ID:	20448
UniProt ID:	Q9R2B6
Cytogenetics:	2 B
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. Prefers glycoproteins to glycolipids.[UniProtKB/Swiss-Prot Function]