

Product datasheet for **MG204273**

St6galnac3 (NM_011372) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: St6galnac3 (NM_011372) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: St6galnac3
Synonyms: Siat7c
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204273 representing NM_011372
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGCATCCTCAAGAGGAAGCCCGTGCTTGTGGTGAGCTTCATAGCCCTGTGCATCTTGCTGCTAG
 CCATGCGCCTTGCAATGATGCGACTTTCCTTTGCTCCTGAAGTCTTTGGACAGCCTAAGACCAAATG
 GATCCCTTTGCCCTACACATTCAGGCAGCCTCTCGAACTCACTATGGATACATAAATGTGAGGACCCAA
 GAGCCTTTGCAACTGAACTGTAACCACTGTGCCATCGTGTCAAATTCAGGTCAAATGGTCGGGCAGAAGG
 TGGGGGAAGAGATAGACCATGCATCCTGCATCTGGAGAATGAACAACGCCCAACCAAGGGCTTTGAGGA
 AGATGTCGGCTACATGACAATGGTCCGAGTTGTGTACATACCAGTGTCCCTCTCTTGCTGAAAAATCCT
 GACTATTTTTTCAAAGAAGCAAGCAGGACCATTTATGTTATCTGGGGCCCTTTCCGCAACATGAGGAAGG
 ATGGTAATGGCATCGTGTACAACATGTTAAAGAAGACAGTTGATGCCTATCCAGATGCGCAGATCTACGT
 GACCACAGAGCAGCAGATGACTCACTGCGATAGAGTGTAAAGGATGAGACTGGAAGGACAGAGTCCAG
 TCTGGCTCCTACCTCAGCACTGGCTGGTTACCTTTATCCTGGCTATGGATGCCTGCTACAGTATCCACG
 TCTACGGGATGATAAATGAAACCTACTGCAAGACAGAAGGGTATAGAAAAGTCCCCTATCACTACTATGA
 ACAAGGAAAGATGAGTGTAAACGAATATCTTCTCCATGAACATGCCCCGATGGGGGACACAGGTTATC
 ACCGAGAAGAAAGTGTTTGCCAAGTGGCCAAGAAGCACAGAATAGTATTACACACCCGAACTGGACGC
 TGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204273 representing NM_011372
 Red=Cloning site Green=Tags(s)

MACILKRKPVLVVSFIALCILLAMRLVNDATFPLLNCFGQPKTKWIPLPYTFRQPLRTHYGYINVRTQ
 EPLQLNCNHCAIVNSGQVMVGQKVGEEIDHASCIWRMNNAPTGFEEVDGYMTMVRVVSHTSVPLLLKNP
 DYFFKEASRTIYVIWGPFRNMRKDGNGIYYNMLKKTVDAYPDAQIYVTTEQQMTHCDRVFKDETGKDRVQ
 SGSYLSTGWFTFILAMDACYSIHVYGMINETYCKTEGYRKVPYHYEYQKDECNELLHEHAPYGGHRFI
 TEKKVFAKWAKHRIVFTHPNWTLS

TRTRPLE - GFP Tag - V

Restriction Sites:

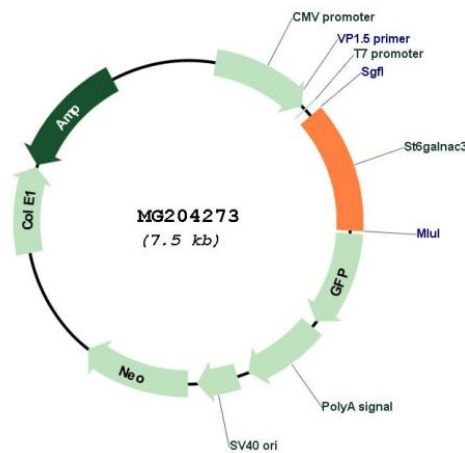
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011372

ORF Size: 915 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_011372.2 , NP_035502.1
RefSeq Size:	3885 bp
RefSeq ORF:	918 bp
Locus ID:	20447
UniProt ID:	Q9WUV2
Cytogenetics:	3 H3
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. ST6GalNAcIII prefers glycolipids to glycoproteins.[UniProtKB/Swiss-Prot Function]