

Product datasheet for **MG205017**

St3gal1 (NM_009177) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal1 (NM_009177) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal1
Synonyms:	5330418N22Rik; AI467004; Siat4; Siat4a; St3gal-1; ST3Gall
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205017 representing NM_009177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAGGAAGACCCTCAAGTACCTCACCTTCTCCTGCTCTTCATCTTCCTCACTTCCTTTGCTCTGA
ATTACTCCAACACGGGAGTACCCAGTGCCTGGTCCCCAAGCAGATGCTCCTGGAATCTCAGAGAACTT
CCGCAGGTTTCATCAAGTACAGCCGTGCACCTGCAGACTGCATCAGCCAGGACAAGGTATCATATTGG
TTCGACCAGCGCTTCAACAAGACTATGCAGCCCTGCTGACAGTCCACAACGCTCTGATGGAGGAGGACA
CATAACCGTGGTGGCTGAGGCTCCAGCGGAGAGGAAACCAACAACCTGAGCGACACCGTCAAGGAACT
GTTTCGCCTGGTGCCTGGCAATGTGGATCCTATGTTGAACAAGAGGCTGGTGGGCTGCCGACGCTGTGCA
GTTGTAGGAAACTCCGGTAACCTGAAGGACTCCTCGTATGGGCCTGAGATCGACAGCCATGACTTTGTGC
TGAGGATGAACAAGGCACCCACAGTGGGTTTTGAGGCAGACGTTGGGAGCCGGACCCACCATCTCGT
GTATCCTGAGAGCTTCCGGGAGCTGGGAGAGAATGTCAACATGGTCTGGTCCCCTTCAAGACCACCGAC
CTGCAGTGGGTGATCAGCGCCACCACAGGCACCATCACTCACACCTATGTCCCGTGCCCCGGAAGA
TCAAAGTAAACAAGAGAAGATCCTGATCTACCACCCAGCCTTCATCAAGTATGTCTTTGACAACTGGCT
TCAGGGCCATGGGCGGTATCCATCGACTGGCATCCTCTCCATCATCTTCCATTATCTGTGATGAG
GTGGACTTATATGTTTTGGGGCAGACAGCAAAGGAAATTGGCACCATTACTGGGAGAACAACCCATCAG
CGGGTGCCTTCCGAAAGACGGGGTTACGATGGTGACTTCGAGTACAACATCACAACCTACCCCTGGCAGC
CATCAATAAAATCCGCATCTTCAAGGGGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205017 representing NM_009177
 Red=Cloning site Green=Tags(s)

MRRKTLKYLTFLLFIFLTSFVLNYSNTGVPSAWFPKQMLELSENFRRFIKSQPCTCRHCISQDKVSYW
 FDQRFNKTMQPLLTVHNALMEEDTYRWLRLQRERKPNLSDTVKELFRLVPGNVDPMNLKRLVGCRRCA
 VVGNSGNLKDSSYGPEIDSHDFVLRMNKAPTGVFEADVGSRTTHHLVYPESFRELGENVMVLVPFKTTD
 LQWVISATTTGTITHTYVPVPPKIKVKQEKILIIYHPAFIKYVFDNWLQGHGRYPSTGILSIIFSIHICDE
 VDLYGFGADSKGNWHHYWENNPASAGAFRKTGVHDGDFEYNIITTTLAAINKIRIFKGR

TRTRPLE - GFP Tag - V

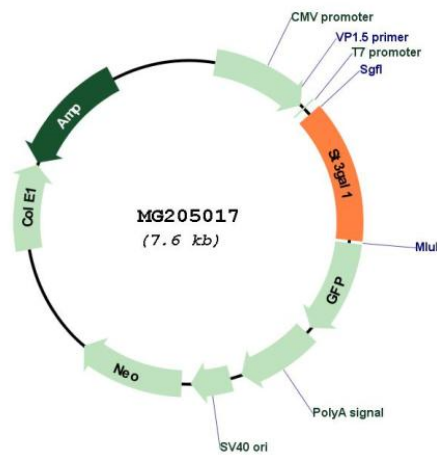
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_009177

ORF Size: 1011 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_009177.4](#), [NP_033203.1](#)

RefSeq Size: 5784 bp

RefSeq ORF: 1014 bp

Locus ID: 20442

UniProt ID: [P54751](#)

Cytogenetics: 15 D2

Gene Summary: Responsible for the synthesis of the sequence NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc- found on sugar chains O-linked to Thr or Ser and also as a terminal sequence on certain gangliosides. SIAT4A and SIAT4B sialylate the same acceptor substrates but exhibit different Km values.[UniProtKB/Swiss-Prot Function]