

Product datasheet for **MG204835**

St3gal6 (NM_018784) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal6 (NM_018784) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal6
Synonyms:	1700023B24Rik; AI930218; AW552396; Siat10; St3galVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204835 representing NM_018784 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGGGTATCTGGTGGCCATATTCCTGAGTTCATCTTCTCTATTATGTAATACTGTATACTGT
GGGAACAATGGCTATTGGTCCAGCTGAAGAAATGAGGACTAGAAACAATGTCAATAATTGTTTTAA
AAAGCCAGCTTTCGCCAATCTTCTGAGATTTCTCAGCTTTACCCATTTCTGTGCAGAGCTGACTTTATA
AAGTTGCTGCCATGTCCGGTACCAATAATTTCCGTTGCCCTATGGAATAAAGACCTTCGAGACATATT
TCAGCTCGGCCCTTCAAACACTGCAGAGTTGTGATCTCTTTGACGAGTTTACAGAGTGCCATGTAAAAG
GTGTGTGGTGGTTGGTAATGGAGGAGTGTGAAGAATAAGACATTAGGAGCAACAATTAACCTCTATGAT
GTAATAATAAGAATGAACAACGGTCCTGTCTTAGGCCATGAAGAGGAAGTTGGGACAAGAACAACCTTCA
GGCTTTTTTATCCAGAGTCTGTCTTTTCAGACTCCAGTCACTATGACCCCAATACTACAGCGGTTCTCGT
CGTCTTTAAGCCACAGGATTTAAGGTGGCTGGTGGAAATACTGCTAGGTAATAAAAAATAAATACTCAAGGG
TTTTGGAAGACACCAGCCTTAAACTGATCTATAAACAATACCAATCAGAATATTAGATCCATATATCA
CCAGCGAAGCAGCTTTCAAATGCTTCGTTTTCCAGAGTATTTCCCAAGGATCAGAAACCCAAACCC
TACAACAGGAATTATTGCCATCACAATGGCCTTTCACATATGCAGTGAAGTGCACCTCGTGGTTTTAAG
TACAACTTTTACAGCCCCAACAGTCCTTTACACTACTACGGGAATGCCACCATGTCTTTGATGAAGCAGA
ATGCATATCACAATCTGACTGCAGAGCAGCTCTTTTTAAACGACATTATAAAGAAAAAATGGTGATCAA
CTTGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204835 representing NM_018784
 Red=Cloning site Green=Tags(s)

MKGYLVAIFLSSIFLYVLYCILWGTNGYWFPAAEMRTRNNVNNCFKKPAFANLLRFPQLYPFLCRADFI
 KVAAMSGTNNFPLPYGIKTFETYFSSALSKLQSCDLDEFDRVPCKRCVVVGGVGLKKNKTLGATINSYD
 VIIRMNNGPVLGHEEEVGRTRTFRLFYPEVFSVSDSSHYDPNTTAVLVVFKPQDLRWLVEILLGKKINTQG
 FWKTPALKLIYKQYQIRILDPIYITSEAAFQMLRFPRVFPKDQPKHPTTGIIAITMAFHICSEVHLAGFK
 YNFYSPNSPLHYGNATMSLMKQAYHNLTAEQLFLNDIIKKKMVINLT

TRTRPLE - GFP Tag - V

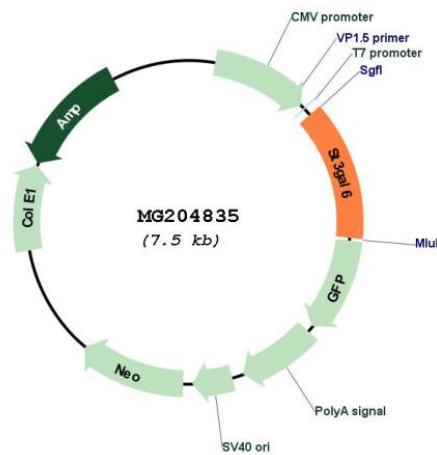
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_018784

ORF Size: 987 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_018784.2 , NP_061254.1
RefSeq Size:	1593 bp
RefSeq ORF:	990 bp
Locus ID:	54613
UniProt ID:	Q8VIB3
Cytogenetics:	16 C1.2
Gene Summary:	Involved in the synthesis of sialyl-paragloboside, a precursor of sialyl-Lewis X determinant. Has a alpha-2,3-sialyltransferase activity toward Gal-beta1,4-GlcNAc structure on glycoproteins and glycolipids. Has a restricted substrate specificity, it utilizes Gal-beta1,4-GlcNAc on glycoproteins, and neolactotetraosylceramide and neolactoheptaosylceramide, but not lactotetraosylceramide, lactosylceramide or asialo-GM1 (By similarity).[UniProtKB/Swiss-Prot Function]