

Product datasheet for **MG205303**

St3gal2 (NM_009179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal2 (NM_009179) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal2
Synonyms:	AI429591; AW822065; Siat5; ST3GalII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205303 representing NM_009179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCTCTCTTCGGGTGTGGTTCCTCTCTATGGCATTCTGCTGGTGTTCATTATGTCCTGCTCT
TCACCTACTCGACCACAGCATGGCTACCTTGCCTACCTGGACTCGGGGCTCTGGCGGCACACACCG
GGTGAAGCTGGTACCAGGCTATTCAGGACTACAGCGCTCGGCAAGGAGGGGCTTTGGGAGAAATTGT
GCCTGCAGTCGTCATGGGTGACGCCAGCACCTCTGAATGGTTTGACAGCCACTTTGACGGCAACATCT
CACCCGCTGGACCAGAGATAACATGAACCTCCCCCGGATGTCCAGCGTGGTGGATGATGCTACAACC
CCAATCAAGTCACACAACCAACGAAGTGCTGGAAAACTGTTCCAGATCGTGCCTGGCGAGAACCCC
TACCGCTTCCGGGACCCCAACAGTGCCGGCGCTGTGCTGTGGTGGGAACTCAGGCAACCTTCCGGGCT
CTGGCTATGGACAAGAAGTGGACAGCCACAACCTTATCATGAGGATGAATCAGGCACCGACTGTGGGCTT
TGAGAAGGATGTTGGCAGCCGAACAACCTCACCATTTATGTACCCAGAGAGTGCCAAGAACCTGCCTGCC
AATGTCAGCTTCGTGCTGGTCCCCTTCAAGGCCCTGGACCTAATGTGGATTGCCAGCGCCCTCTCCACAG
GACAGATCCGATTCACCTATGCCCCAGTGAAGTCTTCCCTCGAGTGGACAAAGAGAAGTCCAGATTTA
CAACCCAGCCTTCTTCAAGTACATTCACGACAGGTGGACCGAGCACCACGGGCGCTACCTTCCACAGGA
ATGCTGGTCTCTTCTTGCACATACATGTGTGATGAGGTGAACGTGTATGGGTTCCGGGCGGACAGT
GAGGCAACTGGCACCCTACTGGGAGAAACAACCGGTACGCGGGCGAGTTCGGAAGACAGGCGTGCATGA
CGCCGACTTCGAAGCCACATCATCGACATGCTGGCCAAGGCCAGCAAGATCGAGGTCTACCGAGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205303 representing NM_009179
 Red=Cloning site Green=Tags(s)

MKCSLRVWFLSMAFLLVFIMSLLFITYSHHSMATLPYLDGALGGTHRVLKVPGYSLQRLGKEGLLGRNC
 ACSRCMGDASTSEWFDSHFDGNI SPVWTRDNMNLPPDVQRWMMMLQPQFKSHNTNEVLEKLFQIVPGENP
 YRFRDPQQCRRCVVGNNGNLRGSGYGGQEVDSHNFIMRMNQAPT VGF EKDVGSRTTHHFMYPE SAKN LPA
 NVSFVLVPFKALDLMWIASALSTGQIRFTYAPVKSFRLRVDKEKVQIYNPAFFKYIHDRWTEHHGRYPSTG
 MLV LFFALHVCDEVN VYGF GADSRGNWHHYWENNRYAGEFRKTVGVDADFEAHIIDMLAKASKIEVYRGN

TRTRPLE - GFP Tag - V

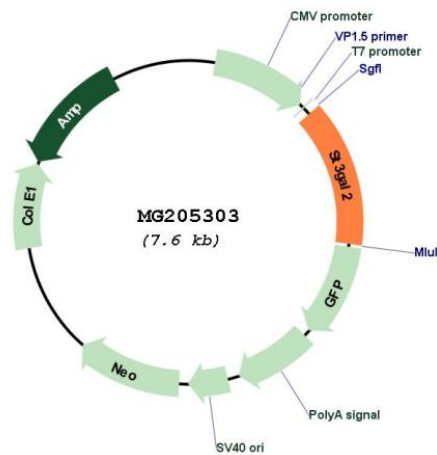
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_009179

ORF Size: 1050 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_009179.3 , NP_033205.2
RefSeq Size:	4470 bp
RefSeq ORF:	1053 bp
Locus ID:	20444
UniProt ID:	Q11204
Cytogenetics:	8 E1
Gene Summary:	Responsible for the synthesis of the sequence NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc- found in terminal carbohydrate groups of certain glycoproteins, oligosaccharides and glycolipids. SIAT4A and SIAT4B sialylate the same acceptor substrates but exhibit different Km values. [UniProtKB/Swiss-Prot Function]