

Product datasheet for **MG205286**

St3gal2 (NM_178048) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: St3gal2 (NM_178048) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: St3gal2
Synonyms: Siat5, AI429591, AW822065, ST3GalII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205286 representing NM_178048
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGCTCTCTTCGGGTGTGGTTCCTCTCTATGGCATTCTGCTGGTGTTCATTATGTCCTGCTCT
TCACCTACTCGCACCACAGCATGGCTACCTTGCCTACCTGGACTCGGGGCTCTGGCGGCACACACCG
GGTGAAGCTGGTACCAGGCTATTCAGGACTACAGCGCCTCGCAAGGAGGGGCTTTGGGAGAAATTGT
GCCTGCAGTCGTCATGGGTGACGCCAGCACCTCTGAATGGTTGACAGCCACTTACGGCAACATCT
CACCCGCTGGACCAGAGATAACATGAACCTCCCCCGGATGTCCAGCGTGGTGGATGATGCTACAACC
CCAATCAAGTCACACAACCAACGAAGTGCTGGAAAACTGTTCCAGATCGTGCCTGGCGAGAACCCC
TACCGCTTCCGGGACCCCAACAGTGCCGGCGCTGTGCTGTGGTGGTGGAACTCAGGCAACCTTCCGGGCT
CTGGCTATGGACAAGAAGTGGACAGCCACAACCTTATCATGAGGATGAATCAGGCACCGACTGTGGGCTT
TGAGAAGGATGTTGGCAGCCGAACAACCTCACCATTTCATGTACCCAGAGAGTGCCAAGAACCTGCCTGCC
AATGTCAGCTTCGTGCTGGTCCCCTTCAAGGCCCTGGACCTAATGTGGATTGCCAGCGCCCTCTCCACAG
GACAGATCCGATTCACCTATGCCCCAGTGAAGTCTTCTTCGAGTGGACAAAGAGAAGTCCAGATTTA
CAACCCAGCCTTCTTCAAGTACATTCACGACAGGTGGACCGAGCACCACGGGCGCTACCTTCCACAGGA
ATGCTGGTGTCTCTTTGCACTACATGTGTGATGAGGTGAACGTGTATGGGTTCCGGGCGGACAGT
GAGGCAACTGGCACCCTACTGGGAGAAACAACCGGTACGCGGGCGAGTTCGGAAGACAGGCGTGCATGA
CGCCGACTTCAAGCCACATCATCGACATGCTGGCCAAGGCCAGCAAGATCGAGGTCTACCGAGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205286 representing NM_178048
 Red=Cloning site Green=Tags(s)

MKCSLRVWFLSMAFLLVFIMSLLFITYSHHSMATLPYLDGALGGTHRVLKVPGYSLQRLGKEGLLGRNC
 ACSRCMGDASTSEWFDSHFDGNI SPVWTRDNMNLPPDVQRWMMMLQPQFKSHNTNEVLEKLFQIVPGENP
 YRFRDPQQCRRCVVGNVGNLRSYGYGQEVDSHNFIMRMNQAPT VGF EKDVGSRTTHHFMYPE SAKN LPA
 NVSFVLVPFKALDLMWIASALSTGQIRFTYAPVKSFRLVDKEKVQIYNPAFFKYIHDRWTEHHGRYPSTG
 MLVLFALHVCDEVNRYGFGADSRGNWHHYWENNRYAGEFRKTVGVDADFEAHIIDMLAKASKIEVYRGN

TRTRPLE - GFP Tag - V

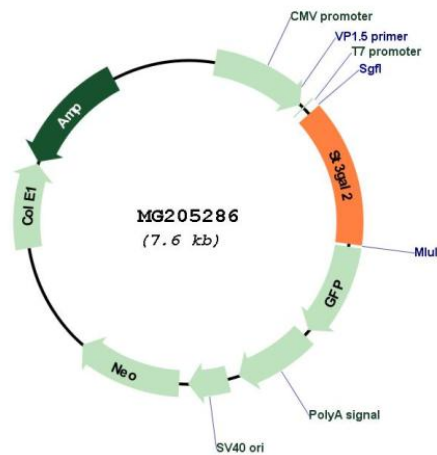
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_178048

ORF Size: 1049 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_178048.2
RefSeq Size:	3471 bp
RefSeq ORF:	1049 bp
Locus ID:	20444
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]