

Product datasheet for **MR205303**

St3gal2 (NM_009179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal2 (NM_009179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal2
Synonyms:	AI429591; AW822065; Siat5; ST3GalII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR205303 representing NM_009179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGTGCTCTTTCGGGTGTGGTTCCTCTCTATGGCATTCTGCTGGTGTTCATTATGTCCTGCTCT
TCACCTACTCGCACCACAGCATGGCTACCTTGCCTACCTGGACTCGGGGCTCTGGCGGCACACACCG
GGTGAAGCTGGTACCAGGCTATTCAGGACTACAGCGCCTCGGCAAGGAGGGGCTTTGGGGAGAAATTGT
GCCTGCAGTCGCTGCATGGGTGACGCCAGCACCTCTGAATGGTTTGACAGCCACTTTGACGGCAACATCT
CACCCGCTCTGGACCAGAGATAACATGAACCTCCCCCGGATGTCCAGCGGTGGTGGATGATGCTACAACC
CCAATTC AAGTCACACAACCAACGAAGTGTGGAAAACTGTTCCAGATCGTGCCTGGCGAGAACCC
TACCGCTTCCGGGACCCCAACAGTGCCGGCGCTGTGCTGTGGTTCGGAACTCAGGCAACCTTCGGGGCT
CTGGCTATGGACAAGAAGTGGACAGCCACAACCTTATCATGAGGATGAATCAGGCACCGACTGTGGGCTT
TGAGAAGGATGTTGGCAGCCGAACAACCTCACCATTTATGTACCCAGAGAGTGCCAAGAACCTGCCTGCC
AATGTCAGCTTCGTGCTGGTCCCTTCAAGGCCCTGGACCTAATGTGGATTGCCAGCGCCCTCTCCACAG
GACAGATCCGATTACCTATGCCCCAGTGAAGTCCCTTTCGAGTGGACAAAGAGAAGTCCAGATTTA
CAACCCAGCCTTCTTCAAGTACATTCAGGACAGGTGGACCGAGCACACGGGCGCTACCCCTCCACAGGA
ATGCTGGTGTCTCTTTTGCACACTACATGTGTGTGATGAGGTGAACGTGTATGGGTTTCGGGCGGACAGTC
GAGGCAACTGGCACCCTACTGGGAGAACAACCGGTACGCGGGCGAGTTCGGGAAGACAGCGGTGCATGA
CGCCGACTTGAAGCCACATCATCGCATGCTGGCCAAGGCCAGCAAGATCGAGGTCTACCGAGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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 Red=Cloning site Green=Tags(s)

MKCSLRVWFLSMAFLLVFIMSLLFITYSHHSMATLPYLDGALGGTHRVLKVPGYSLQRLGKEGLLGRNC
 ACSRCMGDASTSEWFDSHFDGNI SPVWTRDNMNLPPDVQRWMMMLQPQFKSHNTNEVLEKLFQIVPGENP
 YRFRDPQQCRRCVAVGNLRSGLRSGYGGQEVDSHNFIMRMNQAPT VGF EKDVGSRTTHHFMYPEAKNLPA
 NVSFVLVPFKALDLMWIASALSTGQIRFTYAPVKSFLRV DKEKVQIYNPAFFKYIHDRWTEHHGRYPSTG
 MLVLFALHVCDEVNRYGFGADSRGNWHHYWENNRYAGEFRKTGVHDADFEAHIIDMLAKASKIEVYRGN

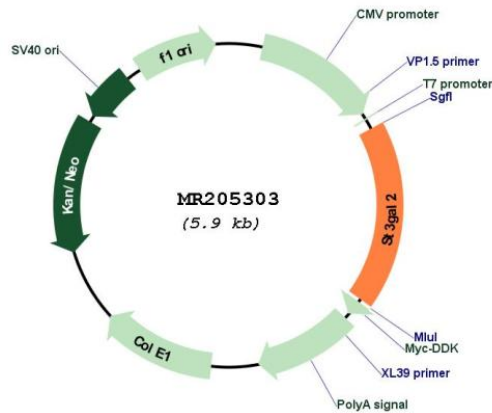
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



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
MW:	40.6 kDa
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]