

Product datasheet for MR205286

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205286 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTGCTCTCTTCGGGTGTGGTTCCTCTCTATGGCATTCTGCTGGTGTTCATTATGTCCTGCTCT
TCACCTACTCGCACCACAGCATGGCTACCTTGCCTACCTGGACTCGGGGCTCTGGCGGCACACACCG
GGTGAAGCTGGTACCAGGCTATTCAGGACTACAGCGCCTCGGCAAGGAGGGGCTTTGGGGAGAATTGT
GCCTGCAGTCGTCATGGGTGACGCCAGCACCTCTGAATGGTTTGACAGCCACTTTGACGGCAACATCT
CACCCGCTCGGACCAGAGATAACATGAACCTCCCCCGGATGTCCAGCGTGGTGGATGATGCTACAACC
CCAATCAAGTCACACAACCAACGAAGTGCTGGAAAACTGTTCCAGATCGTGCCTGGCGAGAACCCC
TACCGCTTCCGGGACCCCAACAGTGCCGGCGCTGTGCTGTGGTGGGAACTCAGGCAACCTTCCGGGCT
CTGGCTATGGACAAGAAGTGGACAGCCACAACCTTATCATGAGGATGAATCAGGCACCGACTGTGGGCTT
TGAGAAGGATGTTGGCAGCCGAACAACCTCACCATTTTATGTACCCAGAGAGTGCCAAGAACCTGCCTGCC
AATGTCAGCTTCGTGCTGGTCCCCTTCAAGGCCCTGGACCTAATGTGGATTGCCAGCGCCCTCTCCACAG
GACAGATCCGATTCACCTATGCCCCAGTGAAGTCTTCTTCGAGTGGACAAAGAGAAGTCCAGATTTA
CAACCCAGCCTTCTTCAAGTACATTACGACAGGTGGACCGAGCACCACGGGCGCTACCTTCCACAGGA
ATGCTGGTGTCTCTTTGCACTACATGTGTGATGAGGTGAACGTGTATGGGTTCCGGGCGGACAGTC
GAGGCAACTGGCACCCTACTGGGAGAACAACCGGTACGCGGGCGAGTTCGGAAGACAGGCGTGCATGA
CGCCGACTTCGAAGCCACATCATCGACATGCTGGCCAAGGCCAGCAAGATCGAGGTCTACCGAGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205286 protein sequence
Red=Cloning site Green=Tags(s)

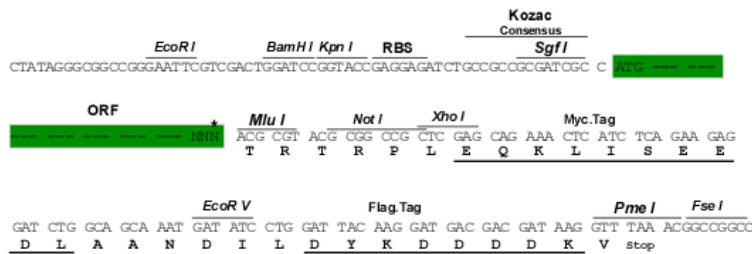
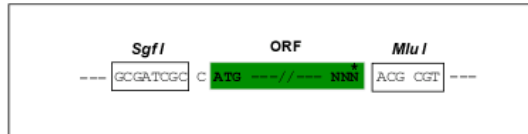
MKCSLRVWFLSMAFLLVFIMSLFLFTYSHHSMATLPYLDGALGGTHRVLKVPGYSLQRLGKEGLLGRNC
 ACSRCMGDASTSEWFDSHFDGNI SPVWTRDNMNLPPDVQRWMMMLQPQFKSHNTNEVLEKLFQIVPGENP
 YRFRDPQQCRRCVVGNVGNLRSRGGYQGEVDSHNFIMRMNQAPT VGFEDVGSRTTHHFMYPEAKNLPA
 NVSFVLVPFKALDLMWIASALSTGQIRFTYAPVKSFRLVDKEKVQIYNPAFFKYIHDRWTEHHGRYPSTG
 MLVLFALHVCDEVNRYGFGADSRGNWHHYWENNRNYAGEFRKTGVHDADFEAHIIDMLAKASKIEVYRGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009179

ORF Size: 1053 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:

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

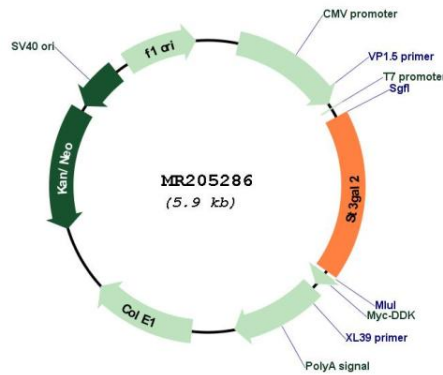
UniProt ID: [Q11204](#)

Cytogenetics: 8 E1

MW: 40.1 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]

Product images:



Circular map for MR205286