

Product datasheet for MR229721

St6gal1 (NM_001252505) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6gal1 (NM_001252505) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6gal1
Synonyms:	AW742324; Si; Siat1; St6G; St6gal; St6Gal-I; St6gall
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229721 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTACACCAACTTGAAGAGAAAGTTCAGCTGCTTTGTCCTGGTCTTTCTCCTGTTTGCCATCATCT
GCGTGTGGAAGAAAGGGAGCGACTATGAGGCTCTTACATTGCAAGCCAAGGTATCCAGATGCCGAAGAG
CCAGGAGAAAGTGGCCGTGGGCTGCTCCCCAGGCTGTGTTCTCAAACAGCAAACAAGACCCTAAGGAA
GGCGTTCAGATCCTCAGTTACCCAGGGTCACAGCCAAGGTCAAGCCACAGCCCTCCTTGCAAGTGTGGG
ACAAGGACTCCACATACTCAAACCTTAACCCAGGCTGCTGAAGATCTGGAGGAATATCTGAACATGAA
TAAATATAAAGTGTCTACAAGGGCCGGGACCAGGAGTCAAGTTCAGCGTAGAGGCGCTGCGCTGCCAC
CTTCGAGACCACGTGAATGTGTCTATGATAGAGGCCACAGATTTCCCTCAACACCACTGAATGGGAGG
GTTACCTGCCAAGGAGAACTTCAGAACCAAGGCTGGGCTTGGCATAAGTGTGCCGTGCTGCTTCTGC
AGGATCTCTGAAGAACTCCAGCTGGGTCGAGAGATTGATAATCATGATGCGGTCTGAGGTTAATGGG
GCACCTACAGACAACCTCCAACAGGATGTGGGCACAAAACCTACCATCCGCTAGTGAACCTCAGTTAG
TCACCACAGAAAAGCGCTTCTGAAGGACAGTTGTACACCGAAGGAATCCTGATTCTGTGGGCCATC
TGTGTATCATGCAGACATCCGCAGTGGTATCAGAAGCCAGACTACAACCTCTTCGAAACCTATAAGAGT
TACCGAAGGCTTACCCAGCCAGCCTTTTACATCCTCAAGCCAGATGCCATGGGAACCTATGGGACA
TCATTCAGGAAATCTCTCAGATCTGATTCAGCCGAATCCCCATCCTCCGGCATGCTGGGTATCATCAT
TATGATGACGCTGTGTGACCAAGTTGATATTTACGAGTTCCTCCCATCCAAGCGCAAGACAGATGTGTGC
TACTATACCAGAAGTTCTTTGACAGCGCTGCAGATGGGTGCCTACCATCCGCTCCTCTTCGAGAAGA
ATATGGTGAAGCATCTCAATGAGGGAACAGATGAAGACATTTATTTGTTGGGAAAGCTACCCTGTCTGG
CTTCCGGAACAATCGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR229721 protein sequence
 Red=Cloning site Green=Tags(s)

MIHTNLKRFSCFVLFLLFAIICVWKKGSDYEALTLQAKVFQMPKSQEKVAVGPAPQAVFSNSKQDPKE
 GVQILSYPRVTAKVKPQPSLQVWDKDYSLKLNPRLLKIWRNYLNMNKYKVSYKGPQGVKFSVEALRCH
 LRDHVNYSMIEATDFPFNTTEWEGYLPKENFRTKAGPWHKCAVVSSAGSLKNSQLGREIDNHDAVLRFNG
 APTDNFQQDVGKTTIRLVNSQLVTTEKRFLKDSLYTEGILILWDPVSVYHADIPQWYQKPDYFFETYKS
 YRRLHPSQPFYILKQMPWELWDIIQEISPDLIQPNPPSSGMLGIIIMMTLCDQVDIYFPLPSKRKTDVC
 YYHQKFFDSACTMGAYHPLLFEKNMVKHLNEGTDEDIYLF GKATLSGFRNNRC

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_001252505

ORF Size: 1212 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_001252505.1](#), [NP_001239434.1](#)

RefSeq Size: 4177 bp

RefSeq ORF: 1212 bp

Locus ID: 20440

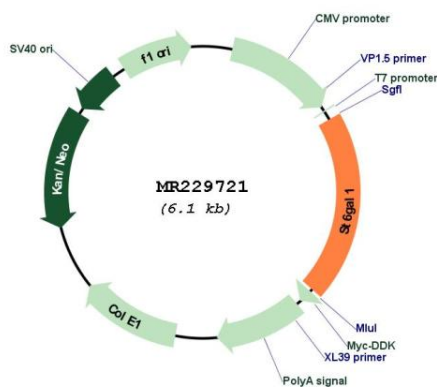
UniProt ID: [Q64685](#)

Cytogenetics: 16 14.03 cM

MW: 46.6 kDa

Gene Summary: This gene encodes a member of glycosyltransferase family 29. The encoded protein is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The protein, which is normally found in the Golgi but can be proteolytically processed to a soluble form, is involved in the generation of the cell-surface carbohydrate determinants and differentiation antigens HB-6, CD75, and CD76. This gene has been incorrectly referred to as CD75. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on chromosome 15. [provided by RefSeq, Nov 2011]

Product images:



Circular map for MR229721