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Product datasheet for MR204835

St3gal6 (NM_018784) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal6 (NM_018784) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal6
Synonyms:	1700023B24Rik; AI930218; AW552396; Siat10; St3galVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204835 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGGGTATCTGGTGGCCATATTCCTGAGTTCCATCTTCCTCTATTATGTACTATACTGTATACTGT
GGGGAACAAATGGCTATTGGTTCCCAGCTGAAGAAATGAGGACTAGAAACAATGTCAATAATTGTTTTAA
AAAGCCAGCTTTCGCCAATCTTCTGAGATTTCCTCAGCTTTACCCATTTCTGTGCAGAGCTGACTTTATA
AAGGTTGCTGCCATGTCCGGTACCAATAATTTTCCGTTGCCCTATGGAATAAAGACCTTCGAGACATATT
TCAGCTCGGCCCTTTCAAAACTGCAGAGTTGTGATCTCTTTGACGAGTTTGACAGAGTGCCATGTAAAAG
GTGTGTGGTGGTTGGTAATGGAGGAGTGTTGAAGAATAAGACATTAGGAGCAACAATTAACTCCTATGAT
GTAATAATAAGAATGAACAACGGTCCTGTCTTAGGCCATGAAGAGGAAGTTGGGACAAGAACAACCTTCA
GGCTTTTTTATCCAGAGTCTGTCTTTTCAGACTCCAGTCACTATGACCCCAATACTACAGCGGTTCTCGT
CGTCTTTAAGCCACAGGATTTAAGGTGGCTGGTGGAAATACTGCTAGGTAAAAAAATAAATACTCAAGGG
TTTTGGAAGACACCAGCCTTAAAACTGATCTATAAACAATACCAAATCAGAATATTAGATCCATATATCA
CCAGCGAAGCAGCTTTTCAAATGCTTCGTTTTCCCAGAGTATTTCCCAAGGATCAGAAACCCAAACACCC
TACAACAGGAATTATTGCCATCACAATGGCCTTTCACATATGCAGTGAAGTGCACCTCGCTGGTTTTAAG
TACAACTTTTACAGCCCCAACAGTCCTTTACACTACTACGGGAATGCCACCATGTCTTTGATGAAGCAGA
ATGCATATCACAATCTGACTGCAGAGCAGCTCTTTTTAAACGACATTATAAAGAAAAAAATGGTGATCAA
CTTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

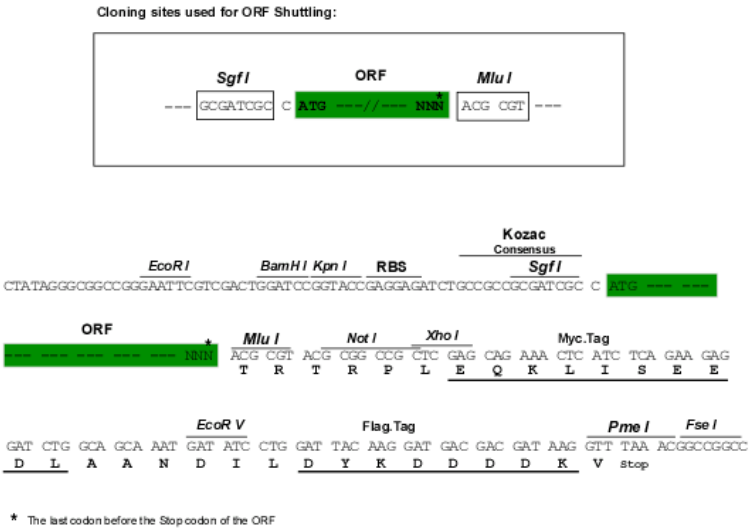
>MR204835 protein sequence
Red=Cloning site Green=Tags(s)

MKGYLVAIFLSSIFLYYVLYCILWGTNGYWFPAEEMRTRNNVNNCFKKPAFANLLRFPQLYPFLCRADFI
KVAAMSGTNNFPLPYGIKTFETYFSSALSKLQSCDLFDEFDRVPCKRCVVVGNGGVLKNKTLGATINSYD
VIIRMNNGPVLGHEEEVGTRTTFRLFYPESVFSDSSHYDPNTTAVLVVFKPQDLRWLVEILLGKKINTQG
FWKTPALKLIYKQYQIRILDPYITSEAAFQMLRFPRVFPKDQKPKHPTTGIIAITMAFHICSEVHLAGFK
YNFYSPNSPLHYYGNATMSLMKQNAYHNLTAEQLFLNDIIKKKMVINLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018784

ORF Size: 990 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_018784.1, NM_018784.2, NP_061254.1

RefSeq Size: 1593 bp

RefSeq ORF: 990 bp

Locus ID: 54613

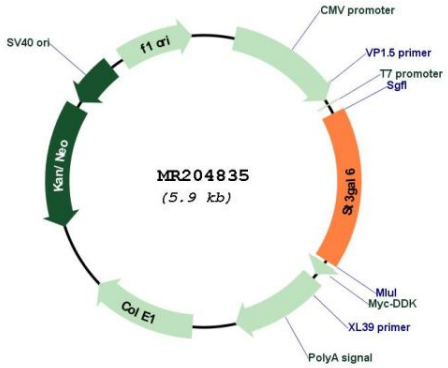
UniProt ID: Q8VIB3

Cytogenetics: 16 C1.2

MW: 37.9 kDa

Gene Summary: Involved in the synthesis of sialyl-paragloboside, a precursor of sialyl-Lewis X determinant. Has a alpha-2,3-sialyltransferase activity toward Gal-beta1,4-GlcNAc structure on glycoproteins and glycolipids. Has a restricted substrate specificity, it utilizes Gal-beta1,4-GlcNAc on glycoproteins, and neolactotetraosylceramide and neolactohexaosylceramide, but not lactotetraosylceramide, lactosylceramide or asialo-GM1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204835