

Product datasheet for MR222664

St3gal5 (NM_011375) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal5 (NM_011375) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal5
Synonyms:	3S-T; Siat9; [a]2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222664 representing NM_011375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAAGTGAGTTCACCTCTGCAAAGCTGAGAAGTGATTGCTCAAGGACCTCCCTGCAATGGTACACCC
GAACCCAGCACAAAGATGAGAAGACCCAGCTTGTTAATAAAAGACATCTGCAAGTGCACGTTGGTTGCATT
TGGAGTCTGGCTCCTGTACATCCTCATTGTTGAATTACACCGCTGAAGAATGTGACATGAAAAGAATGCAC
TATGTGGACCCTGACCGATAAAGAGAGCTCAGAGCTATGCTCAGGAAGTCTGCAGAAGGAATGTCGGC
CCAGGTACGCGAAGACGGCTATGGCTCTGTTATTTGAGGACAGGTACAGCATCAACTGGAGCCTTTTGT
GCAGAAGTCCCCACGGCAGTGAAGCTGAGCTCAAGTATGACCCGCCTTTGGATTCCGGAAAGTCTCC
AGTAAAGTCCAGAGCCTCTGGATATGCTGCCCGAACATGACTTTCTGAACACTTGAGAGCCAAGGCCCT
GCAAGCGCTGTGTGGTGTGGGAACGGGGCATCCTGCACGGACTAGAGCTGGGTACGCCCCTCAACCA
GTTTCGATGTGGTAATAAGGTTGAACAGTGCAGTGGGTTACTCTGAACACGTTGGGAATAAACT
ACTATAAGGATGACTTACCCAGAGGGTGCAGTGTGCGGACGTTGAATACTACGCCAATGATTTGTTTCG
TACTGTTTTATTAAGAGTGTGATTTCAAGTGGCTCAAGCAATGGTAAAAATGAAAGCCTGCCCTT
TTGGTTTCGCCTCTCTTTTGAAGCAAGTGGCAGAAAAAGTCCCACTCCAGCCAAGCACTTCAGGATT
TTGAACCCAGTTATCATCAAAGAACTGCCTTCGACATCCTTCAGTACTCAGACCTCAGTCAAGATTCT
GGGGCCATGATAAGAACATCCCCACGATCGGCGTCATTGCCGTTGTCTGGCTACACATCTGTGTGATGA
AGTCAGCCTGGCAGGCTTTGGCTACGACCTCAGTCAACCCAGGACCCCTCTGCACTACTTTGACAGTCAG
TGCATGGGCGCCATGCACTGGCAGGTCATGCACAAATGTGACCACAGAGACCAAGTTCCTCCTGAAGCTCC
TCAAGGAGGGCGTGGTGGAGGACCTCAGCGGGCATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222664 representing NM_011375
Red=Cloning site Green=Tags(s)

MPSEFTSAKLRSDCSRTSLQWYTRTQHKMRRPSLLIKDICKCTLVAFGVWLLYILILNYTAEEDMKRMH
 YVDPDRIKRAQSYAQEVLQKECRPRYAKTAMALLFEDRYSINLEPFVQKVPTASEAELKYDPPFGFRKFS
 SKVQSLDMLPEHDFPEHLRAKACKRCVVVGNNGILHGLELGHALNQFDVVIRLNSAPVEGYSEHVGKNT
 TIRMTYPEGAPLSDVEYYANDLFVTVL FKSVD FKW LQAMVKNESL PFWVRL FFWKQVAEKVPLQPKHFRI
 LNPVVIKETAFDILQYSEPPQSRFWGHDKNIPTIGVIAVVLATHLCDEVSLAGFGYDLSQPRTPPLHYFDSQ
 CMGAMHWQVMHNVTTETKFLLLKLLKEGVVEDLSGGIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_011375

ORF Size: 1161 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_011375.3](#), [NP_035505.2](#)

RefSeq Size: 2448 bp

RefSeq ORF: 1164 bp

Locus ID: 20454

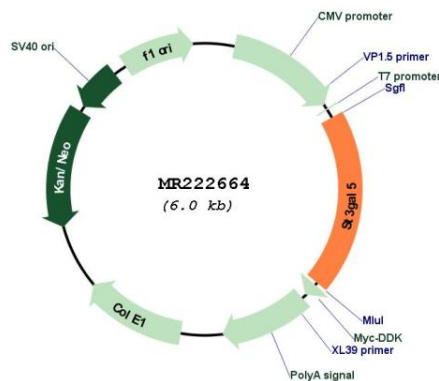
UniProt ID: [O88829](#)

Cytogenetics: 6 C1

MW: 45 kDa

Gene Summary: Catalyzes the formation of ganglioside GM3 (alpha-N-acetylneuraminyl-2,3-beta-D-galactosyl-1, 4-beta-D-glucosylceramide), which is a precursor for most of the complex ganglioside species.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222664