

Product datasheet for **RR213634**

St3gal2 (NM_031695) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal2 (NM_031695) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal2
Synonyms:	Siat4b; Siat5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213634 representing NM_031695 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGTGCTCCCTTCGAGTGTGGTTCCTCTCTATGGCCTTCCTGCTGGTGTTCATTATGTCTCTGCTCT
TCACGTAACACACCACAGCATGGCTACCTTGCCTACCTGGACTCGGGACTCTGGCGGAACACACCG
AGTGAAGCTGGTACCGGGCTATACTGGCAACAGCGCCTTGTCAGGAGGGGCTTCGGGAAAAGTTGT
ACCTGCAGTCGCTGCATGGGTGATGCCGACCTCTGAGTGGTTTGACAGCCACTTTGACAGTAACATCT
CACCTGTCTGGACGAGAGATAACATGAACCTCACCCGGATGTCCAGCGGTGGTGGATGATGCTGCAACC
CCAATTCAGTCACACAACCAATGAAGTGTGGAGAAGCTCTCCAGATCGTGCCCGGTGAGAACCC
TACCGCTCCGGGACCCAGCAGTGGCGGCTGTGCTGTGGTGGGAACTCAGGCAACCTTCGGGGCT
CTGGCTATGGCAAGAAGTGGACAGCCACAACCTTATCATGAGGATGAATCAGGCACCGACTGTAGGCTT
TGAGAAGGATGTTGGCAGCCGAACAACCTCACATTTATGTACCCGGAGAGTGCCAAGAACCTGCCTGCC
AACGTGAGCTTTGTGCTGGTGCCTTCAAGGCCCTGGACCTGATGTGGATTGCCAGCGCCCTCTCCACAG
GACAGATCCGATTACCTATGCTCCAGTGAAGTCCCTTCCTTCGAGTGGACAAGAGAAGTCCAGATTTA
CAACCCAGCCTTCTTCAAGTACATCCATGACAGGTGGACCGAGCACCATGGCCGCTACCCCTCCACAGGA
ATGCTGGTGTCTCTTTTGCACACGTGTGTGATGAGGTGAACGTGTATGGGTTCCGGGCCGACAGCC
GTGGCAACTGGCACCCTACTGGGAGAACAACCGGTACGCGGGCGAGTCCGGAAGACAGCGGTGCATGA
TGCCGACTTGAAGCCACATCATTGACATGCTGGCCAAGGCCAGCAAGATTGAAGTCTACCGAGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213634 representing NM_031695
 Red=Cloning site Green=Tags(s)

MKCSLRVWFLSMAFLLVFIMSLLFITYSHHSMATLPYLDSTLGGTHRVLKLVPGYTGQQLVKEGLSGKSC
 TCSRMDAGTSEWFDSHFDSNI SPVWTRDNMNLTPDVQRWMMMLQPQFKSHNTNEVLEKLFQIVPGENP
 YRFRDPQQCRRCVAVGNLRSGLRSGYGGQEVDSHNFIMRMNQAPTGVFEKDVGSRTTHHFMYPEAKNLP
 NVSFVLVPFKALDLMWIASALSTGQIRFTYAPVKSFLRVKQIYNPAFFKYIHDRWTEHHGRYPSTG
 MLVLFALHVCDEVNRYGFGADSRGNWHHYWENNRYAGEFRKTVHDAADFEAHIIDMLAKASKIEVYRGN

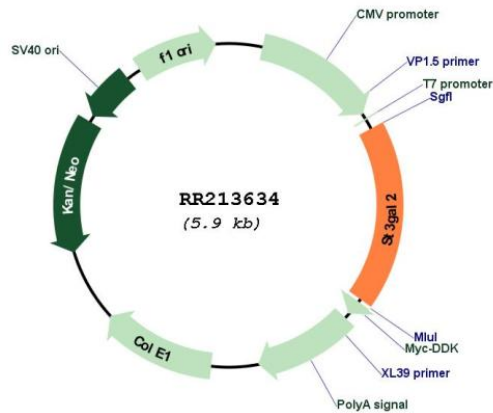
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031695

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_031695.2 , NP_113883.2
RefSeq Size:	3221 bp
RefSeq ORF:	1053 bp
Locus ID:	64442
UniProt ID:	Q11205
Cytogenetics:	19q12
MW:	40.2 kDa
Gene Summary:	Gal beta 1,3GalNAc alpha 2,3-sialyltransferase with potential substrates of asialo-GM1 and GM1 [RGD, Feb 2006]