

Product datasheet for MR229098

St6galnac6 (NM_001289549) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (NM_001289549) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6galnac6
Synonyms:	Siat7f; ST6GalNAcVI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229098 representing NM_001289549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTGGTGTGATCCTCTTTGCCCTCATCACCATCCTCATCC
TCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTACGGCTCCCTGCGGGCCGCACGCGTCGGCCAGT
CAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCCCTATCCTCGGCAACAAGACGCTGCCGTCCAGG
TGCAACCAAGTGTGTGATCATCACCAGCTCCAGCCACCTGCTGGGCACCAAACTGGGCCCTGAGATTGAGC
GGGCTGAGTGCACCATCCGCATGAACGATGCTCCACCTCTGGCTACTCGGCTGACGTCGGAAACAAAAC
CACCTTCGCGTAGTGGCCATTCCAGTGTATTCCGTGTGCTGCGGAAGCCCCAGGAATTTGTCAACCGG
ACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCAACAAGATGCAGAAGCCCCAGGGCAGCCTCCTGC
GCGTCATCCAGCGGGCGGCCTCATGTTCCGAACATGGAGGCCATGCCGTCTCTCCGCCCCGATGCA
GCAGTTTGACGACCTCTCCGGGTGAGACGGGCAAGGACAGGAAAAGTCCCATTCTGGTTGAGCAGC
GGCTGGTTTACCATGGTATTGCGGTGGAATTGTGTACCATGTGCACGTGTATGGCATGGTCCCTCCTG
ACTACTGCAGCCAGCGCCCGCCTGCAGCGCATGCCATACCACTACTATGAACCAAGGGGCCGACGA
GTGTGTACCTACATCCAGAACGAGCACAGCCGTAAGGGCAATCACCACCGTTTCATCACCGAGAAGAGG
GTCTTCTGCTCCTGGGCCAACTCTACGGTATCACCTTCTCCACCCCTCCTGGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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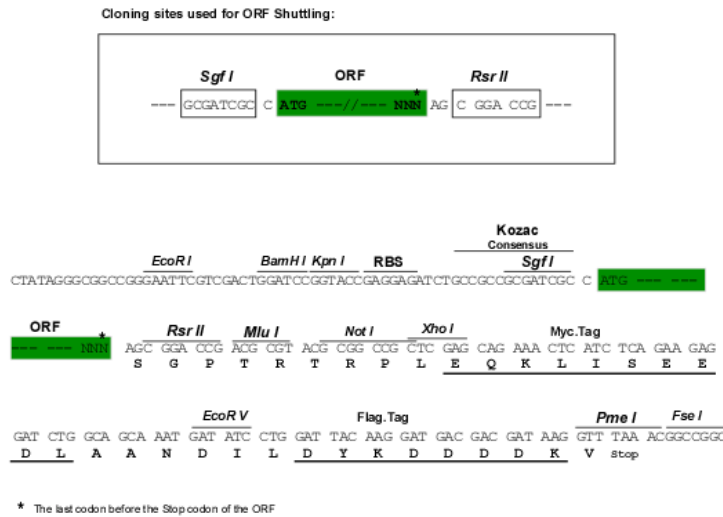
Protein Sequence: >MR229098 representing NM_001289549
Red=Cloning site Green=Tags(s)

MSSNKEQRSVAVFVILFALITILILYSSNSANEVHYGSLRGRTRRPVNLKKWSFSSAYFPILGNKTLPSR
 CNQCVIITSSSHLLGTLGPEIERAECTIRMNDAPTSYGYSADVGNKTTFRVVAHSSVFRVLRKPQEFVNR
 TPETVFIWGPNNKMQKPOGSLLRVIQRAGLMFPNMEAYAVSPARMQQFDDLFRGETGKDREKSHSWLST
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 VFSWAQLYGITFSHPWT

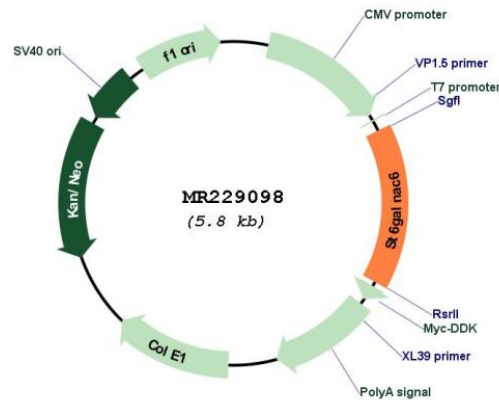
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289549

ORF Size: 897 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_001289549.1 , NP_001276478.1
RefSeq Size:	2567 bp
RefSeq ORF:	900 bp
Locus ID:	50935
UniProt ID:	Q9JM95
Cytogenetics:	2 B
MW:	34.8 kDa
Gene Summary:	Alpha-2,6-sialyltransferase involved in the synthesis of alpha-series gangliosides. Has activity toward GD1a, GT1b and GM1b. Has no activity toward glycoproteins. Responsible for the biosynthesis of DSGG (disialylgalactosylgloboside) from MSGG (monosialylgalactosylgloboside) in kidney.[UniProtKB/Swiss-Prot Function]