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Product datasheet for MC227316

St6galnac6 (NM_001289548) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6galnac6 (NM_001289548) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	St6galnac6
Synonyms:	Siat7f; ST6GalNAcVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC227316 representing NM_001289548
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAGCAACAAAGAGCAGCGGTCAGCAGTGTTTGTGATCCTCTTTGCCCTCATCACCATCCTCATCC
TCTACAGCTCCAACAGTGCCAACGAGGTCTTCCACTACGGCTCCCTGCGGGGCCGCACGCGTCGGCCAGT
CAACCTCAAGAAGTGGAGTTTCTCCAGCGCCTACTTCCCTATCCTCGGCAACAAGACGCTGCCGTCCAGG
TGCAACCAGTGTGTGATCATCACCAGCTCCAGCCACCTGCTGGGCACCAAACTGGGCCCTGAGATTGAGC
GGGCTGAGTGCACCATCCGCATGAACGATGCTCCCACCTCTGGCTACTCGGCTGACGTCGGAAACAAAAC
CACCTTCCGCGTAGTGGCCCATTCCAGTGTATTCCGTGTGCTGCGGAAGCCCCAGGAATTTGTCAACCGG
ACCCCTGAGACGGTGTTCATCTTCTGGGGACCCCCAAACAAGATGCAGAAGCCCCAGGGCAGCCTCCTGC
GCGTCATCCAGCGGGCGGGCCTCATGTTCCCGAACATGGAGGCCTATGCCGTCTCTCCCGCCCGCATGCA
GCAGTTTGACGACCTCTTCCGGGGTGAGACGGGCAAGGACAGGGAAAAGTCCCATTCCTGGTTGAGCACG
GGCTGGTTTACCATGGTGATTGCGGTGGAATTGTGTGACCATGTGCACGTGTATGGCATGGTCCCTCCTG
ACTACTGCAGCGGCCCCGCCTGCAGCGCATGCCATACCACTACTATGAACCCAAGGGGCCGGACGAGTGT
GTCACCTACATCCAGAACGAGCACAGCCGTAAGGGCAATCACCACCGCTTCATCACCGAGAAGAGGGTCT
TCTCGTCCTGGGCCCAACTCTACGGTATCACCTTCTCCCACCCCTCCTGGACCTAGTTATCCTGTCCACC
GATCTCGGACAGATACAAACGAAGTGGCTCTGGCCCAGCCATTTAACCATGGCCATCTTCCAGCCAGTTC
AGGCTGGCTGGAGTATTTCCCAGCCAATCAAATCAGGGCCTTGATGAGGGTTTTTTTTTTCCTCCAGCCA
ATCGGGGCTGGGGTTATCTCTTGGCCAATCAGGGATTTGGAATTCTGTATGGTTTAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

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ACCN:	NM_001289548
Insert Size:	1107 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001289548.1, NP_001276477.1
RefSeq Size:	2379 bp
RefSeq ORF:	1107 bp
Locus ID:	50935
UniProt ID:	Q9JM95
Cytogenetics:	2 B
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] Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 4. It encodes isoform 5, which has a shorter N-terminus, compared to isoform 4.

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