

Product datasheet for RC200989

ST6GALNAC5 (NM_030965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC5 (NM_030965) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST6GALNAC5
Synonyms:	SIAT7-E; SIAT7E; ST6GalNAcV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200989 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCCGTGATGCGCCATGGTCTGGCAGTGTGTTTAGCGCTCACCACCATGTGCACCAGCTTGTTC
TAGTGTACAGCAGCCTCGGCGGCCAGAAGGAGCGGCCCGCAGCAGCAGCAGCAGCAGCAACAGCA
GCAGCAGGCGTCGGCCACCGGCAGCTCGCAGCCGGCGGGAGAGCAGCACCCAGCAGCGCCCGGGGTC
CCCGGGGACCGCGCCACTGGACGGATACCTCGGAGTGGCGGACCACAAGCCCTGAAAATGCACTGCA
GGGACTGTGCCCTGGTGACCAGCTCAGGGCATCTGCTGCACAGTCGGCAAGGCTCCAGATTGACCAGAC
AGAGTGTGTCATCCGCATGAATGACGCCCCACACGCGGCTATGGGCGTGACGTGGGCAATCGCACCAGC
CTGAGGGTCATCGGCATTCCAGCATCCAGAGGATCCTCCGCAACCGCCATGACCTGCTCAACGTGAGCC
AGGGCACCGTGTTCATCTTCTGGGGCCCGCAGCAGCTACATGCGGCGGGACGGCAAGGGCCAGGTCTACAA
CAACCTGCATCTCCTGAGCCAGGTGCTGCCCGGCTGAAGGCCTTCATGATTACTCGCCACAAGATGCTG
CAGTTTGTAGCTCTTCAAGCAGGAGACTGGCAAAGACAGGAAGATATCCAACACTTGGCTCAGCACTG
GCTGGTTTACAATGACAATTGCACTGGAGCTCTGTGACAGGATCAATGTTTATGGCATGGTGCCCCAGA
CTTCTGCAGGGATCCCAATCACCTTTCAGTACCTTATCATTATTGAACCTTTTGGACCTGATGAATGT
ACAATGTACCTCTCCATGAGCGAGGACGCAAGGGCAGTCATCACCGCTTATCACAGAGAAACGAGTCT
TTAAGAAGTGGGACGGACATTCAATATTCACCTTTTTTCAACCAGACTGGAACCCAGAATCACTTGCTAT
AAATCATCCTGAGAATAAACCTGTGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200989 protein sequence
Red=Cloning site Green=Tags(s)

MKTLMRHGLAVCLALTTMCTSLLLVYSSLGGQKERPPQQQQQQQQQQASATGSSQPAESSTQQRPGV
 PAGPRPLDGYLGVADHKPLKMHCRDCALVTSSGHLLHSRQGSQIDQTECIVRMNDAPTRGYGRDVGNRTS
 LRVIAHSSIQRILRNHRDLLNVSQGTVFIFWGPSSYMRRDGKGQVYNNLHLLSQVLPRLKAFMITRHKML
 QFDELFKQETGKDRKISNTWLSTGWFTMTIALELCDRINVYGMVPPDFCRDPNHPSVPYHYEYEPFGPDEC
 TMYLSHERGRKGSXHRFITEKRVFKNWARTFNIHFFQPDWKPESLAINHPENKPVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6080_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030965

ORF Size: 1008 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_030965.3](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1011 bp

Locus ID: 81849

UniProt ID: [Q9BVH7](#)

Cytogenetics: 1p31.1

Domains: Glyco_transf_29

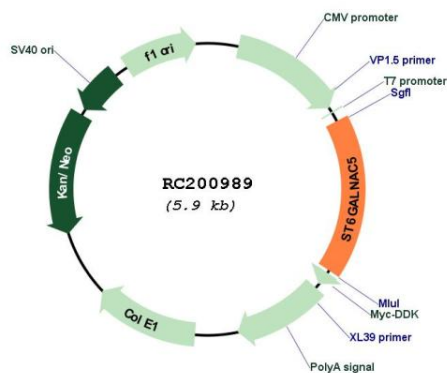
Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

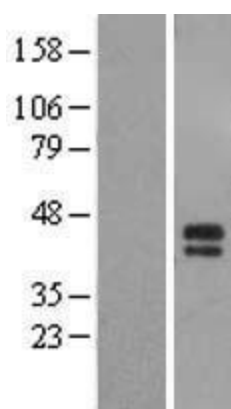
MW: 38.4 kDa

Gene Summary: The protein encoded by this gene is a Golgi type II transmembrane glycosyltransferase. The encoded protein catalyzes the transfer of sialic acid to cell surface proteins to modulate cell-cell interactions. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC200989



Western blot validation of overexpression lysate (Cat# [LY410629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200989 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).