**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACCCTGATGCGCCATGGTCTGGCAGTGTGTTTAGCGCTCACCACCATGTGCACCAGCTTGTTGC
TAGTGTACAGCAGCCTCGGCGGCCAGAAGGAGCGGCCCCCGCAGCAGCAGCAGCAGCAGCAGCAACAGCA
GCAGCAGGCGTCGGCCACCGGCAGCTCGCAGCCGGCGGCGGAGAGCAGCACCCAGCAGCGCCCCGGGGTC
CCCGCGGGACCGCGGCCACTGGACGGATACCTCGGAGTGGCGGACCACAAGCCCCTGAAAATGCACTGCA
GGGACTGTGCCCTGGTGACCAGCTCAGGGCATCTGCTGCACAGTCGGCAAGGCTCCCAGATTGACCAGAC
AGAGTGTGTCATCCGCATGAATGACGCCCCCACACGCGGCTATGGGCGTGACGTGGGCAATCGCACCAGC
CTGAGGGTCATCGCGCATTCCAGCATCCAGAGGATCCTCCGCAACCGCCATGACCTGCTCAACGTGAGCC
AGGGCACCGTGTTCATCTTCTGGGGCCCCAGCAGCTACATGCGGCGGGACGGCAAGGGCCAGGTCTACAA
CAACCTGCATCTCCTGAGCCAGGTGCTGCCCCGGCTGAAGGCCTTCATGATTACTCGCCACAAGATGCTG
CAGTTTGATGAGCTCTTCAAGCAGGAGACTGGCAAAGACAGGAAGATATCCAACACTTGGCTCAGCACTG
GCTGGTTTACAATGACAATTGCACTGGAGCTCTGTGACAGGATCAATGTTTATGGCATGGTGCCCCCAGA
CTTCTGCAGGGATCCCAATCACCCTTCAGTACCTTATCATTATTATGAACCTTTTGGACCTGATGAATGT
ACAATGTACCTCTCCCATGAGCGAGGACGCAAGGGCAGTCATCACCGCTTTATCACAGAGAAACGAGTCT
TTAAGAACTGGGCACGGACATTCAATATTCACTTTTTTCAACCAGACTGGAAACCAGAATCACTTGCTAT
AAATCATCCTGAGAATAAACCTGTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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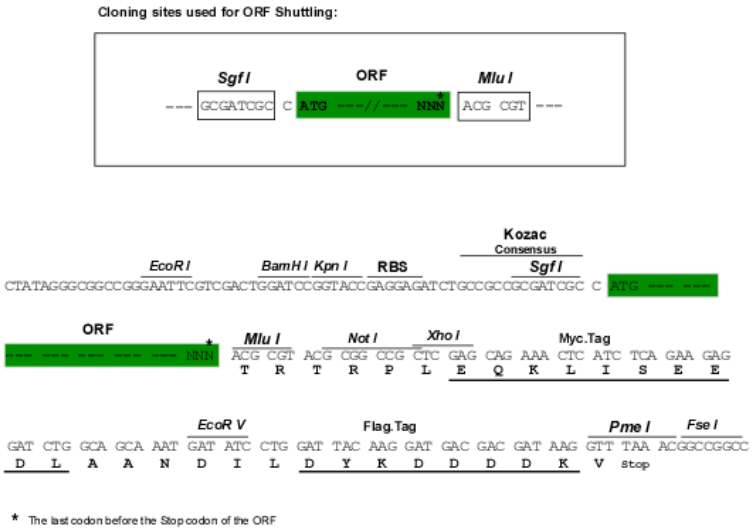
**Protein Sequence:**

```
>RC200989 protein sequence
Red=Cloning site Green=Tags(s)

MKTLMRHGLAVCLALTTMCTSLLLVYSSLGGQKERPPQQQQQQQQQQQQASATGSSQPAAESSTQQRPGV
PAGPRPLDGYLGVADHKPLKMHCRDCALVTSSGHLLHSRQGSQIDQTECVIRMNDAPTRGYGRDVGNRTS
LRVIAHSSIQRILRNRHDLLNVSQGTVFIFWGPSSYMRRDGKGQVYNNLHLLSQVLPRLKAFMITRHKML
QFDELFKQETGKDRKISNTWLSTGWFTMTIALELCDRINVYGMVPPDFCRDPNHPSVPYHYYEPFGPDEC
TMYLSHERGRKGSHHRFITEKRVFKNWARTFNIHFFQPDWKPESLAINHPENKPVF

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).

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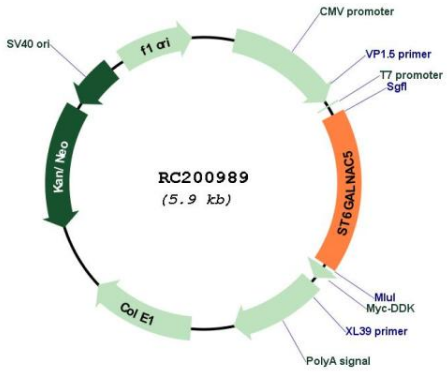
| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **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

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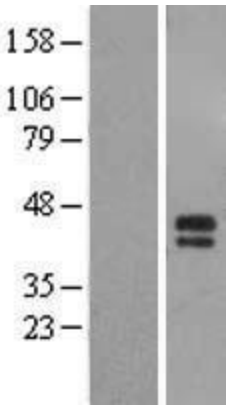


Western blot validation of overexpression lysate (Cat# [LY410629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200989 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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