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Product datasheet for RC209177

ST6GALNAC3 (NM_152996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC3 (NM_152996) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST6GALNAC3
Synonyms:	PRO7177; SIAT7C; ST6GALNACIII; STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209177 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTGCATCCTGAAGAGAAAGTCTGTGATTGCTGTGAGCTTCATAGCAGCGTTCCTTTTCCTGCTGG
TTGTGCGTCTTGTAAATGAAGTGAATTTCCCATTGCTACTAAACTGCTTTGGACAACCTGGTACAAAGTG
GATACCATTCTCCTACACATACAGGCGGCCCCTTCGAACTCACTATGGATACATAAATGTGAAGACACAA
GAGCCTTTGCAACTGGACTGTGACCTTTGTGCCATAGTGTCAAACTCAGGTCAGATGGTTGGCCAGAAGG
TGGGAAATGAGATAGATCGATCCTCCTGCATTTGGAGAATGAACAATGCCCCCACCAAAGGTTATGAAGA
AGATGTCGGCCGCATGACCATGATTCGAGTTGTGTCCCATACCAGCGTTCCTCTTTTGCTAAAAAACCCT
GATTATTTTTTCAAGGAAGCGAATACTACTATTTATGTTATTTGGGGACCTTTCCGCAATATGAGGAAAG
ATGGCAATGGCATCGTTTACAACATGTTGAAAAAGACAGTTGGTATCTATCCGAATGCCCAAATATACGT
GACCACAGAGAAGCGCATGAGTTACTGTGATGGAGTTTTTAAGAAGGAAACTGGGAAGGACAGAGTCCAG
TCTGGCTCATATCTCAGCACAGGGTGGTTTACCTTCATTCTGGCCATGGACGCCTGTTATGGCATTCACG
TCTACGGGATGATAAATGACACCTACTGCAAGACAGAAGGGTATAGAAAAGTCCCCTACCATTATTATGA
ACAAGGAAGAGATGAGTGTGATGAATATTTTCTTCATGAACATGCCCCATATGGGGGTCATAGGTTTATC
ACTGAAAAGAAAGTGTTTGCTAAATGGGCCAAGAAGCACAGGATAATATTTACACATCCAAACTGGACAT
TGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209177 protein sequence
Red=Cloning site Green=Tags(s)

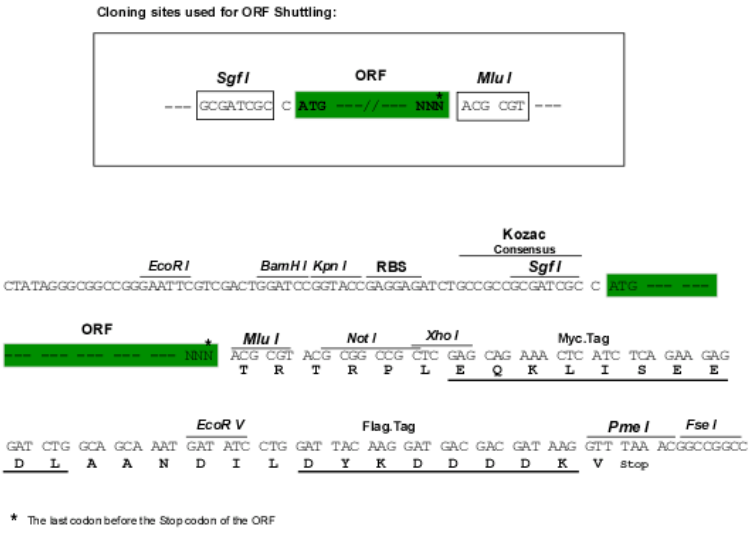
MACILKRKSVIAVSFIAAFLFLLVVRLVNEVNFPLLLNCFGQPGTKWIPFSYTYRRPLRTHYGYINVKTQ
EPLQLDCDLCAIVSNSGQMVGQKVGNEIDRSSCIWRMNNAPTKGYEEDVGRMTMIRVVSHTSVPLLLKNP
DYFFKEANTTIYVIWGPFRNMRKDGNGIVYNMLKKTVGIYPNAQIYVTTEKRMSYCDGVFKKETGKDRVQ
SGSYLSTGWFTFILAMDACYGIHVYGMINDTYCKTEGYRKVPYHYYEQGRDECDEYFLHEHAPYGGHRFI
TEKKVFAKWAKKHRIIFTHPNWTLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6345_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152996

ORF Size: 915 bp

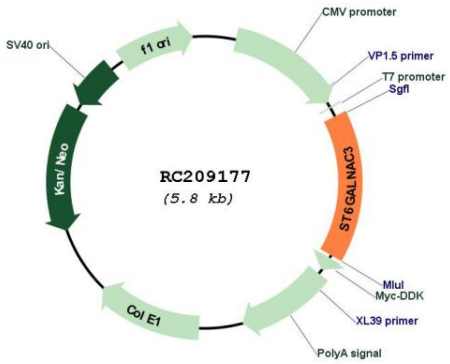
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

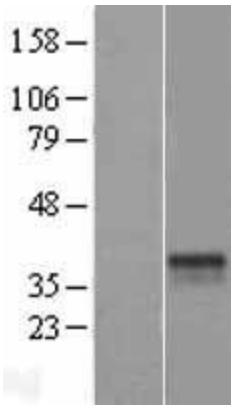
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_152996.4
RefSeq Size:	3259 bp
RefSeq ORF:	918 bp
Locus ID:	256435
UniProt ID:	Q8NDV1
Cytogenetics:	1p31.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
MW:	35.4 kDa
Gene Summary:	ST6GALNAC3 belongs to a family of sialyltransferases that transfer sialic acids from CMP-sialic acid to terminal positions of carbohydrate groups in glycoproteins and glycolipids (Lee et al., 1999 [PubMed 10207017]).[supplied by OMIM, Mar 2008]

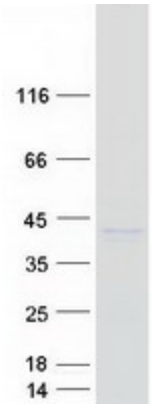
Product images:



Circular map for RC209177



Western blot validation of overexpression lysate (Cat# [LY407237]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209177 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ST6GALNAC3 protein (Cat# [TP309177]). The protein was produced from HEK293T cells transfected with ST6GALNAC3 cDNA clone (Cat# RC209177) using MegaTran 2.0 (Cat# [TT210002]).