

Product datasheet for **RG202844**

ST6GALNAC4 (NM_175039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC4 (NM_175039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST6GALNAC4
Synonyms:	IV; SIAT3-C; SIAT3C; SIAT7-D; SIAT7D; ST6GalNAc; ST6GALNACIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202844 representing NM_175039 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCTCCGGGTCGGCTCGTGCTCATCATCTGTGCTCCGTGGTCTTCTCTGCCGTCTACATCCTCC
TGTGCTGCTGGGCGGCCTGCCCTCTGCCTGGCCACCTGCCTGGACCACCACTTCCCCACAGGCTCCAG
GCCACTGTGCCGGGACCCCTGCACTTCAGTGGATATAGCAGTGTGCCAGATGGGAAGCCGCTGGTCCGC
GAGCCCTGCCGCAGCTGTGCCGTGGTGTCCAGCTCCGGCCAAATGCTGGGCTCAGGCCTGGGTGCTGAGA
TCGACAGTGCCGAGTGCCTGTTCCGCATGAACCAGGCGCCACCGTGGGCTTTGAGCGGATGTGGGCCA
GCGCAGCACCCCTGCGTGTGCTCTCACACACAAGCGTGGCCTGCTGCTGCGCAACTATTCACACTACTTC
CAGAAGGCCCGAGACACGCTCTACATGGTGTGGGGCCAGGGCAGGCACATGGACCGGTGCTCGGCGGCC
GCACCTACCGCACGCTGCTGCAGCTCACAGGATGTACCCCGCCTGCAGGTGTACACCTTCACGGAGCG
CATGATGGCCTACTGCGACCAGATCTTCCAGGACGAGACGGGCAAGAACCGGAGGCAGTCGGGCTCCTTC
CTCAGCACCGGCTGGTTCACCATGATCCTCGCGCTGGAGCTGTGTGAGGAGATCGTGGTCTATGGGATGG
TCAGCGACAGCTACTGCAGGGAGAAGAGCCACCCCTCAGTGCCTTACCACTACTTTGAGAAGGGCCGGCT
AGATGAGTGTGATGTACCTGGCACACGAGCAGGCGCCCCGAAGCGCCACCGCTTCATCACTGAGAAG
GCGGTCTTCTCCGCTGGGCCAAGAAGAGGCCCATCGTGTTCGCCATCCGTCTGGAGGACTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG202844 representing NM_175039
 Red=Cloning site Green=Tags(s)

MKAPGRLVLIILCSVVFSAVYILLCCWAGLPLCLATCLDHHFPTGSRPTVPGPLHFSGYSSVPDGKPLVR
 EPCRSCAVVSSSQMLGSLGAEIDSAECVFRMNQAPTVGFEADVQRSTLRVVSHTSVPLLLRNYSHYF
 QKARDTLVMVWQGRHMDRVLGGRTYRLLQLTRMYPGLQVYTFTERMMAYCDQIFQDETGNRRQSGSF
 LSTGWFTMILALELCEEIVVYGMVSDSYCREKSHPSVPYHYFEKGRLEDCQMYLAHEQAPRSAHRFITEK
 AVFSRWAKKRPIVFAHPSWRTE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175039

ORF Size: 906 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_175039.4](#)

RefSeq Size: 1717 bp

RefSeq ORF: 909 bp

Locus ID: 27090

UniProt ID: [Q9H4F1](#)

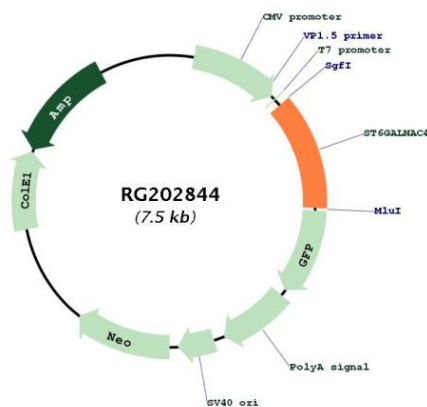
Cytogenetics: 9q34.11

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

Gene Summary: The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein prefers glycoproteins rather than glycolipids as substrates and shows restricted substrate specificity, utilizing only the trisaccharide sequence Neu5Ac-alpha-2,3-Gal-beta-1,3-GalNAc. In addition, it is involved in the synthesis of ganglioside GD1A from GM1B. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202844