

## Product datasheet for **RG209177**

### **ST6GALNAC3 (NM\_152996) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC3 (NM_152996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST6GALNAC3
Synonyms:	PRO7177; SIAT7C; ST6GALNACIII; STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209177 representing NM_152996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTGCATCCTGAAGAGAAAGTCTGTGATTGCTGTGAGCTTCATAGCAGCGTTCCTTTCTGCTGG  
TTGTGCGTCTTGTAAATGAAGTGAATTTCCATTGCTACTAACTGCTTTGGACAACCTGGTACAAAGTG  
GATACCATTCTCCTACACATACAGGCGGCCCTTCGAACTCACTATGGATACATAAATGTGAAGACAAA  
GAGCCTTTGCAACTGGACTGTGACCTTTGTGCCATAGTGTCAAACCTCAGGTCAGATGGTTGGCCAGAAG  
TGGGAAATGAGATAGATCGATCCTCCTGCATTTGGAGAATGAACAATGCCCCACCAAAGTTATGAAGA  
AGATGTCGGCCGATGACCATGATTGAGTTGTGCCATACCAGCGTTCCTCTTTGCTAAAAACCCCT  
GATTATTTTTTCAAGGAAGCAATACTACTATTTATGTTATTTGGGGACCTTTCCGCAATATGAGGAAAG  
ATGGCAATGGCATCGTTTACAACATGTTGAAAAAGACAGTTGGTATCTATCCGAATGCCCAAATATACGT  
GACCACAGAGAAGCGCATGAGTTACTGTGATGGAGTTTTAAGAAGGAACTGGGAAGGACAGAGTCCAG  
TCTGGCTCATATCTCAGCACAGGGTGGTTACCTTCATTCTGGCCATGGACGCCTGTTATGGCATTACAG  
TCTACGGGATGATAAATGACACCTACTGCAAGACAGAAGGATAGAAAAAGTCCCTACCATTATTATGA  
ACAAGGAAGAGATGAGTGTGATGAATTTTTCTCATGAACATGCCCATATGGGGTTCATAGGTTTATC  
ACTGAAAAGAAAGTGTGGCTAAATGGCCAAGAAGCACAGGATAATATTTACACATCCAACTGGACAT  
TGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209177 representing NM\_152996  
Red=Cloning site Green=Tags(s)

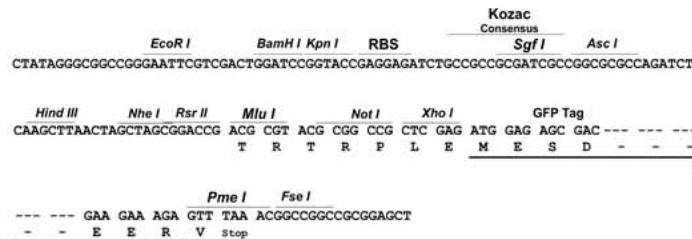
MACILKRKSVIAVSFIAAFLFLLVVRLVNEVNFLLLNCFGQPQTKWIPFSYTYRRPLRTHYGYINVKTQ  
 EPLQLDCDLCAIVNSGQMVGQKVGNEIDRSSCIWRMNNAPTKEYEEDVGRMTMIRVVSHTSVPLLLKNP  
 DYFFKEANTTIYVIWGPFRNMRKDGNGIYYNMLKKTGVIYPNAQIYVTTTEKRMSCDGVFKKETGKDRVQ  
 SGSYLSTGWFTFILAMDACYGIHVYGMINDTYCKTEGYRKYVPYHYEQGRDECDEYFLHEHAPYGGHRFI  
 TEKKVFAKWAKKHRIIFTHPNWTLS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_152996

**ORF Size:** 915 bp

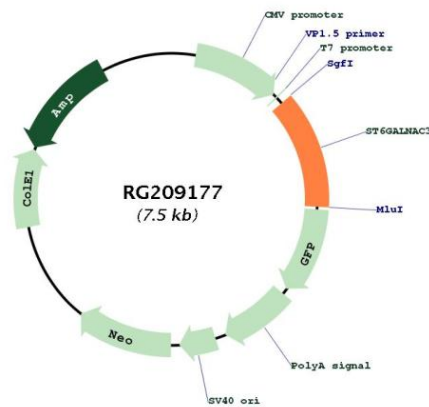
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152996.1</a> , <a href="#">NP_694541.1</a>
<b>RefSeq Size:</b>	3207 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	256435
<b>UniProt ID:</b>	<a href="#">Q8NDV1</a>
<b>Cytogenetics:</b>	1p31.1
<b>Domains:</b>	Glyco_transf_29
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
<b>Gene Summary:</b>	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 RG209177