

## Product datasheet for **RG237297**

### ST6GALNAC6 (NM\_001287002) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC6 (NM_001287002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST6GALNAC6
Synonyms:	SIAT7-F; SIAT7F; ST6GALNACVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237297 representing NM_001287002. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTAGCAACAAGAGCAGCGGTGAGCAGTGTTCGTGATCCTCTTTGCCCTCATCACCATCCTCATC
CTCTACAGCTCCAACAGTGCCAATGAGGTCTTCCATTACGGCTCCCTGCGGGGCGTAGCCGCCGACCT
GTCAACCTCAAGAAGTGGAGCATCACTGACGGCTATGTCCCCATTCTCGGCAACAAGACTGCCCTCT
CGGTGCCACCAAGTGTGATTGTCAGCAGCTCCAGCCACCTGCTGGGCACCAAGCTGGGCCCTGAGATC
GAGCGGGCTGAGTGTACAATCCGCATGAATGATGCACCCACCACTGGCTACTCAGCTGATGTGGCAAC
AAGACCACCTACCGCGTCTGGCCATTCCAGTGTGTTCCGCGTCTGAGGAGGCCCCAGGAGTTTGTG
AACCGGACCCCTGAAACCGTGTTCATCTTCTGGGGCCCCCGAGCAAGATGCAGAAGCCCAAGGCGAGC
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CGCATGCGGCAATTTGACGACCTCTTCCGGGTGAGACGGGCAAGGACAGGGAGAAGTCTCATTCGTGG
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GGGCCGGACGAATGTGTACCTACATCCAGAATGAGCACAGTTCGAAGGGCAACCACCACCGCTTCATC
ACCGAGAAAAGGGTCTTCTCATCGTGGGCCAGCTGTATGGCATCACCTTCTCCACCCCTCCTGGACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237297  
 Blue=ORF Red=Cloning site Green=Tag(s)

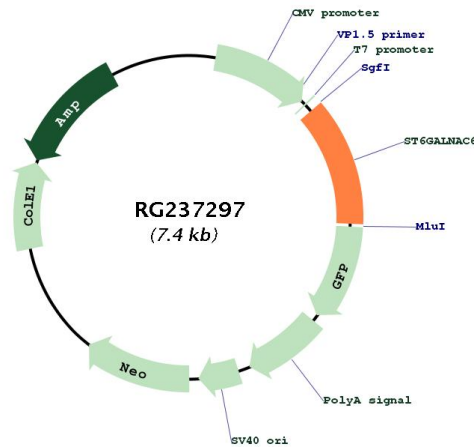
MSSNKEQRSVAVFVILFALITILILYSSNSANEVPHYGSLRGRSRRPVNLKKWSITDGYVPILGNKTLPS  
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 NRTPETVFIFWGPPSKMQKPKQGS�VRVIQRAGLVFPNMEAYAVSPGRMRQFDDLFRGETGKDREKSHSW  
 LSTGWF TMVIAVELCDHVHYGMVPPNYCSQRPRLQRMPYHYEYEPKGPDECVTYIQNEHSRKGNNHHRFI  
 TEKRVFSSWAQLYGITFSHPST  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001287002

<b>ORF Size:</b>	897 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_001287002.1</a> , <a href="#">NP_001273931.1</a>
<b>RefSeq Size:</b>	2415 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	30815
<b>UniProt ID:</b>	<a href="#">Q969X2</a>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
<b>MW:</b>	34.7 kDa
<b>Gene Summary:</b>	ST6GALNAC6 belongs to a family of sialyltransferases that modify proteins and ceramides on the cell surface to alter cell-cell or cell-extracellular matrix interactions (Tsuchida et al., 2003 [PubMed 12668675]).[supplied by OMIM, Mar 2008]