

## Product datasheet for **RC219685**

### **ST6GAL2 (NM\_032528) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ST6GAL2 (NM_032528) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST6GAL2
Synonyms:	SIAT2; ST6GalII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC219685 representing NM\_032528  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACCACTTGAAGCAATGGAGACAACGAATGCTTTTCGGAATATTCGCTTGGGGCTCCTCTTTT  
 TGCTGATTTTCATCTACTTCACCGACAGCAACCCCGCTGAGCCTGTACCCAGCTCCCTCTCCTTCCTGGA  
 GACCAGGAGGCTCCTGCCGGTGCAGGGGAAGCAGCGGGCCATCATGGGCGCCGCACATGAGCCCTCCCCG  
 CCTGGGGGCTGGACGCACGCCAGGCGCTGCCCGCGCCACCCAGCGGTTCTTTTCATGCGGGGCTG  
 GAGACCTGCAGAAATGGGCCAGTCCCAAGATGGGTTTGAACATAAAGAGTTTTTTTCATCCAGGTGGG  
 GAGAAAATCTCAAAGTCTTTCTACCCGGAGGATGACGACTACTTTTTGCTGCTGGTACGCCAGGGTGG  
 CACAGCCACTCAGGGGACATTGGGATTCCTTCCCCGGGGAGCCAGGCCACGGGAGGGGGCTTTTC  
 CGGCTGCACAGGTCCAGAGGAGGCGGTGAAGAAGAGGCACCGGAGGCAGAGAAGGAGCCACGTGTTGGA  
 GGAGGGCAGACGGCGACAGGCTGTACTCTCCATGTCCAGGGCCTTCTGTACCGGCTCTGGAAGGGG  
 AACGTCTCTTCCAAAATGCTGAACCCGCGCCTGCAGAAGGCGATGAAGGATTACCTGACCGCCAACAAGC  
 ACGGGGTGCGCTTCCGCGGAAGCGGGAGGCGGGCTGAGCAGGGCACAGCTGCTGTGCCAGCTGCGGAG  
 CCGCGCGCGCTGCGGACGCTGGACGGCACCGAGGCGCCCTTTCTGCGCTGGGCTGGCGGCGCCTGGT  
 CCCGCCGTGCCCTGAGCCAGCTGCACCCCGCGGCTGCGCAGCTGCGCTGTGTCATGTCTGCAGGCG  
 CAATCCTCAACTCTTCTTGGGCGAGGAAATAGATTCTCATGATGCGGTTTTGAGATTTAACTCTGCTCC  
 TACAGTGTTTATGAGAAAGATGTTGGGAATAAAACCACCATACGCATCATTAAATTCGCAGATTCTGACC  
 AACCCAGCCATCACTTCATTGACAGTTCACTGTATAAAGACGTCATTTTGGTGGCTGGGACCCTGCCC  
 CATATTCGCAAAATCTTAACTGTGGTACAAAAACCGGATTACAACCTGTTCACTCCATATATTACAGCA  
 TGGTCAGAGAAACCCAAATCAGCCATTTTACATTCCTTCACTAAATTTATATGGCAGCTCTGGGATATT  
 ATCCAGGAGAACAATAAGAGAAGATCAACCAACCCACCATCTTCTGTTTTATTGGAATCCTCATCA  
 TGATGTCCATGTGCAGAGAGGTGCACGTGTATGAATATATCCCATCCGTGCGGCAGACGGAGCTGTGCCA  
 CTACCAGAGCTGTACTACGACGACGCTGCACCCCTCGGGGCGTACCACCCACTACTCTATGAGAAGCTC  
 CTGGTGCAGCGCCTGAACATGGGCACGCAGGGGATTTGCATCGCAAGGGCAAGGTGTTCTTCTGGCT  
 TCCAGGCGGTGCACTGCCCTGCACCAAGTCCAGTCATTCCACACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219685 representing NM\_032528  
 Red=Cloning site Green=Tags(s)

MKPHLKQWRQRMFLGIFAWGLLFLLIYFTDSNPAEPVPSLSFLETRRLLPVQKQRAIMGAAHEPSP  
 PGGLDARQALPRAHPAGSFHAGPGDLQKWAQSQDGFHEKFEFFSSQVGRKSQSAFYPEDDDYFFAAGQPGW  
 HSHTQGTGLGFSPGEPGREGAFPAQVQRRRVKRRRQRSHVLEEGDDGDRLYSSMSRAFLYRLWKG  
 NVSSKMLNPRLQKAMKDYLANKHGVRFRGKREAGLSRAQLLQRLSRARVRTLDGTEAPFSALGWRRLV  
 PAVPLSQLHPRGLRSCAVVMSAGAILNSSLGEEIDSHDAVLRFNAPTRGYEKDVGNKTTIRIINSQILT  
 NPSSHFIIDSSLYKDVILVAWDPAPYSANLNLWYKPDYNLFTPYIQHRQNPQPFIILHPKFIWQLWDI  
 IQENTKEKIQPNPPSSGFIGILIMMSMCREVHVVEYIPSVRQTELCHYHELYYDAACTLGAYHPLLYEKL  
 LVQRLNMGTOGDLHRKGVVLPGFQAVHCPAPSPVIPHS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8011\\_d04.zip](https://cdn.origene.com/chromatograms/mk8011_d04.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_032528

**ORF Size:** 1587 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\\_032528.1](#), [NP\\_115917.1](#)

**RefSeq Size:** 1793 bp

**RefSeq ORF:** 1590 bp

**Locus ID:** 84620

**UniProt ID:** [Q96JF0](#)

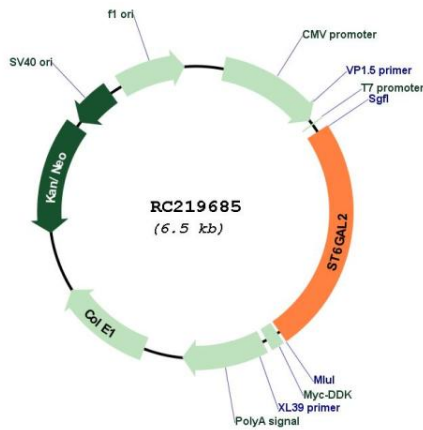
**Cytogenetics:** 2q12.3

**Protein Families:** Transmembrane

**MW:** 60 kDa

**Gene Summary:** This locus encodes a sialyltransferase. The encoded type II transmembrane protein catalyzes the transfer of sialic acid from CMP to an oligosaccharide substrate. Polymorphisms at this locus may be associated with variations in risperidone response in schizophrenic patients. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RC219685