

Product datasheet for **RG227626**

ST6GAL2 (NM_001142352) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ST6GAL2 (NM_001142352) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ST6GAL2 |
| Synonyms: | SIAT2; ST6GalII |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG227626 representing NM_001142352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTTTCGGAATATTCGCTTGGGGCTCCTCTTTTTGCTGATTTTCATCTACTTCACCGACAGCAACC
 CGCTGAGCCTGTACCCAGCTCCCTCTCCTTCTGGAGACCAGGAGGCTCCTGCCGGTGCAGGGGAAGCA
 GCGGGCCATCATGGGCGCCGACATGAGCCCTCCCGCCTGGGGGCTGGACGCACGCCAGGCGCTGCC
 CGCGCCACCCAGCCGGTTCCTTTCATGCGGGGCTGGAGACCTGCAGAAATGGGCCAGTCCCAAGATG
 GTTTTGAACATAAAGAGTTTTTTTCATCCAGGTGGGAGAAAATCTCAAAGTCTTTTACCCGGAGGA
 TGACGACTACTTTTTGCTGCTGGTCCAGCCAGGTGGCACAGCCACTCAGGGGACATTGGGATCCCT
 TCCCCGGGGAGCCAGGCCACGGGAGGGGCTTTCCGGCTGCACAGGTCCAGAGGAGGCGGGTGAAGA
 AGAGCCACCGGAGGCAGAGAAGGAGCCACGTGTTGGAGGAGGGCAGCACGGCGACAGGCTGTACTCTC
 CATGTCCAGGGCCTTCTGTACCGCTCTGGAAGGGGAACGTCTCTTCCAAAATGCTGAACCCGCGCTG
 CAGAAGGCGATGAAGATTACCTGACCCCAACAAGCACGGGGTGCCTTCCGCGGAAGCGGGAGGCCG
 GGCTGAGCAGGGCACAGCTGCTGTGCCAGCTGCGGAGCCGCGCGCGCTGCGGACCTGGACGGCACCGA
 GGCGCCCTTTTCTGCGCTGGGCTGGCGGCGCTGGTGCCTGCGCTGCCCTGAGCCAGCTGCACCCCGC
 GGCTGCGCAGCTGCGCTGCTCATGTCTGCAGGCGCAATCCTCAACTTCTCTGGCGAGGAAATAG
 ATTCTCATGATGCGGTTTTGAGATTTAACTCTGCTCCTACACGTGGTTATGAGAAAGATGTTGGGAATA
 AACCACCATACGCATCATTAAATTCGAGATTCTGACCAACCCAGCCATCACTTCATTGACAGTTCACTG
 TATAAAGACGTCATTTTGGTGGCCTGGGACCCTGCCCATATTCGCAAATCTTAACTGTGGTACAAAA
 AACCGGATTACAACCTGTTCACTCCATATATTCAGCATCGTCAGAGAAACCCAAATCAGCCATTTTACAT
 TCTTCATCTAAATTTATATGGCAGCTCTGGGATATTATCCAGGAGAACACTAAAGAGAAGATTCAACCA
 AACCCACCATCTTCTGGTTTCATTGGCTCATTTGTAATAATTGGCCATATCAGAGCTTGCAGTGAGCCGA
 GATCACGCGACTGCACTCCAGCTGGACGACAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227626 representing NM_001142352
 Red=Cloning site Green=Tags(s)

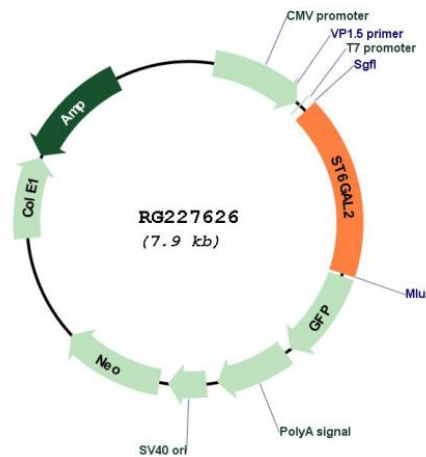
MLFGIFAWGLLFLIFIFYFTDSNPAEVPVSSLSFLETRLLPVQGKQRAIMGAAHEPSPGGLDARQALP
 RAHPAGSFHAGPGDLQKWAQSQDGFHKEFFSSQVGRKSQSAFYPEDDDYFFAAGQPGWHSHTQGTLGFP
 SPGEPGPREGAFPAQVQRRRVKRRHRRQRSHVLEEGDDGDRLYSSMSRAFLYRLWKGNSKMLNPRL
 QKAMKDYLTANKHGVFRFRGKREAGLSRAQLLQQLRSRARVRTLDGTEAPFSALGWRRLVPAVPLSQLHPR
 GLRSCAVVMSAGAILNSSLGEEIDSHDAVLRFNAPTRGYEKDVGKNTTIRIINSQILTNPSSHHFIDSSL
 YKDVILVAWDPAPYSANLNLWYKPKDYNLFTPYIQHRQRNPNQPFYILHPKFIWQLWDIIQENTKEKIQP
 NPPSSGFIGSFVKIGHIRACSEPRSRDCTPAWTTTE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001142352

ORF Size: 1398 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.

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001142352.1</u> , <u>NP_001135824.1</u> |
| RefSeq Size: | 1656 bp |
| RefSeq ORF: | 1401 bp |
| Locus ID: | 84620 |
| UniProt ID: | <u>Q96JF0</u> |
| Cytogenetics: | 2q12.3 |
| Protein Families: | Transmembrane |
| 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] |