

Product datasheet for **SC116324**

ST3GAL6 (NM_006100) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ST3GAL6 (NM_006100) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ST3GAL6 |
| Synonyms: | SIAT10; ST3GALVI |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_006100, the custom clone sequence may differ by one or more nucleotides |

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ATGAGAGGGTATCTTGTGGCCATATTCCTGAGTGCTGTCTTCTCTATTATGTA  
CTGCATTGCATATTATGGGAACGAATGTCTATTGGGTGGCACCTGTGGAAATG  
AAACGGAGAAATAAGATCCAGCCTTGTATTATCAAAGCCAGCTTTTGCCTCT  
CTGCTGAGGTTTCATCAGTTTCACCCCTTTCTGTGTGCGGCTGATTTTAGA  
AAGATTGCTTCTTGTATGGTAGCGATAAGTTTGATTTGCCCTATGGGATGAG  
AACATCAGCGGAATATTTCGACTTGCTCTTCAAACCTGCAGAGTTGTGATCT  
CTTTGATGAGTTGACAACATACCTGTAAAAAAGTGTGTGGTGGTTGGTAAT  
GGAGGAGTTTGAAGAATAAGACATTAGGAGAAAAAATCGACTCCTATGAT  
GTAATAATAAGAATGAATAATGGTCCTGTTTTAGGACATGAAGAAGAAGTT  
GGGAGAAGGACAACCTTCCGACTTTTTATCCAGAATCTGTTTTTCAGATCCT  
ATTACAATGACCCTAATACGACAGTGATTCTCACGCTTTTTAAGCCACATG  
ATTTAAGGTGGCTGTTGGAATTGTTGATGGGTGACAAAATAAACACTAAT  
GGTTTTTGGAAAGAAACCAGCCTTAAACCTGATTTATAAACCTTATCAAAT  
CCGAATATTAGATCCTTTTCATTACGAAACAGCAGCTTATGAACTGCTTCA  
TTTTCCAAAAGTGTTCCTCAAAAATCAGAAACCTAAACCCACAACAGGAAT  
TATGGCATCACATTGGCGTTTTACATATGTCACGAAGTTCACCTAGCTGTT  
TTAAATACAACCTTTCTGACCTCAAGAGTCCTTGCACACTATGGGAATGCC  
ACCATGTCTTTGATGAATAAGACGCGTATCACAATGTGACTGCAGAGCAGCT  
CTTTTTGAAGGACATTATAGAAAAAACCTCGTAATCAACTTGACTCAAGATT  
GA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006100 unedited
 AGCATTTTGTAAACGACTCACTATAGGGCGGCNCGCATTCGGCACGAGGTGAGACTCC
 GGGCAGGGCTGCTCCCTCCTCTGCTCCCCGCCAGATCCGCGGGGAAGGAATCGTGCCCC
 CGCCGCCCTGGCCCGCCACCTTCCTTTGGTTTCTGCCGGCTCGGGCTTCTGCGGCC
 CGATGTGGCAGGCGCCGAGAGAGGAGCAGCAGCCGGCTGGAGCAGCGGCCCTCAGGTCT
 CGGAGCCCGGTGCGCCTCTGCGGTGCTGCTCCTGGGCCTCGGCGGTCACTCTTGCCGG
 CCGGCTTCGCTGCGGGTTTGCCTGCCCCGGTGAGGAAATTTGGGGTGCGGGAAGACCG
 GTCTGGGCCGGGTCCGGCGGCCCTGGGTCTGTGCTGCCCGACCCTCCGGCTTTGCAG
 CCTCTGAGGCTCAGGGTTGGGGTGGGACACGGAGCGCTGTTGCCCTCCACATATCC
 TGCCAGCACCAAGGAGGTGGCGTGGGAGGCGTAAAGGGACCATGGGCGCTGGGACCCGC
 GAGCCAGCCGGCTGCGCCGAGCCACCGCCGAGAGGGCANCCCGNGATCCTGGAGCCC
 CAGTGAAGGGCGGAGGGACGCGCAGCCTCGCGGGTGAGCCAGCCATGAGAGGTATCTT
 GTGGCCATATTCCTGAGTGTCTTCTCTATTATGACTGCATTGCATATTATGGNG
 AACGAATGTCTATTTGGGGTGGCACCTGGTGGAAANTGAACGGAGAAATAGATCCAGCCC
 TGTTTATCAAAGCCAGCTTTTGCCTCTCGGGCTGAGTCAGAGCTCTGCATTAATNTNAA
 GAAAAGGGCATTGAGACTCATCAAACCATATTCTTTCACAACGGTTTCAATAGTTCACC
 TTTTCTGGGGCGGCTGATTTAAAAAGATGCTCTTGATGGTACCAAAAAANTTGATTGCC
 TTTGGGAAGAAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006100 unedited
 CCTATCTGNACCGCGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTACTACA
 TTTATATGTCTGATACATATACGGCTTTGGAGACAATCAAGTAACAACCTGAAAAATGTA
 AAGTAACCATATCTGACAAAATCCCTTGAATTTTTATCCTTTGCTTGCAACATTTAAGA
 CTCAAAGTCACTGGTATATTGGATTAAGTTTTTCTGTTAATGCAATTATAGAAATACA
 TCGGAGACACAACAAATGTGGCCATTACAGGTTTCATAAAATTACTGACTTGGCTGTT
 ACTTGATCTTAGGAAACAGCACAGTTTAAAGATATTGTGAATTCTGACTTATACTTTATTA
 AATGCTATAAATCTAAATAGATCCTGTTGGATGTGATGGGTCTAGTCCAGTTTATTTAAG
 TTCATGTTTCACTGTTTGCACTTTGCATTGAACAATGGGTTTATTCGCTGATGTAACGG
 CTCGAGTGAAGAATTAATGCAGTAAGTATGACAACACATACACACTTGCCTCTCCCCATC
 TGCAAAAAGAGGGGAGCAAAGTCCGAGCTTATCTAAATATGAATGTGGCCACAAAGCTGCG
 GAAGGTGACAAAAGCTTAAACACCTTTGCCCTGGCTCTGCATTGCACCTACAGAGCAAGA
 GGCTCATACAACCTCCATGCCCATGAAACCGATCTCTGCCTTTGGCCCCGAACCTGGA
 GACCCCTAATCTGCACAACCCAGAGCTGGGTGGTCTTCAAACCCCTCTCAAAGCGCA
 CTGGGGCGCCACTCTTACGTAATTCCACTTGTAACTGCATACTCATCAACTACCACACC
 CCCATCTCCCCGCCCTCCCCCACCAGCCCAATCGCACACCACCTTCTCTACCAACAT
 ATTGGCCACATAACGCTTTATTCATTCCATATTTAT

Restriction Sites:

NotI-NotI

ACCN:

NM_006100

Insert Size:

5000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_006100.2](#), [NP_006091.1](#)

RefSeq Size: 2107 bp

RefSeq ORF: 996 bp

Locus ID: 10402

UniProt ID: [Q9Y274](#)

Cytogenetics: 3q12.1

Domains: Glyco_transf_29

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

Gene Summary: The protein encoded by this gene is a member of the sialyltransferase family. Members of this family are enzymes that transfer sialic acid from the activated cytidine 5'-monophospho-N-acetylneuraminic acid to terminal positions on sialylated glycolipids (gangliosides) or to the N- or O-linked sugar chains of glycoproteins. This protein has high specificity for neolactotetraosylceramide and neolactohexaosylceramide as glycolipid substrates and may contribute to the formation of selectin ligands and sialyl Lewis X, a carbohydrate important for cell-to-cell recognition and a blood group antigen. [provided by RefSeq, Apr 2016]
Transcript Variant: Variants 1, 4, 7, 8 and 9 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.