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# Product datasheet for SC317670

## ST3GAL5 (NM_003896) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | Tag Free |
| **Symbol:** | ST3GAL5 |
| **Synonyms:** | SATI; SIAT9; SIATGM3S; SPDRS; ST3Gal V; ST3GalV |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

>SC317670 representing NM_003896.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGACGAAGGCGGCGGGCTGCGCGGAGCGGCGTCCCCTGCAGCCGCGGACCGAGGCAGCGGCGGCA
CCTGCCGGCCGAGCAATGCCAAGTGAGTACACCTATGTGAAACTGAGAAGTGATTGCTCGAGGCCTTCC
CTGCAATGGTACACCCGAGCTCAAAGCAAGATGAGAAGGCCCAGCTTGTTATTAAAAGACATCCTCAAA
TGTACATTGCTTGTGTTTGGAGTGTGGATCCTTTATATCCTCAAGTTAAATTATACTACTGAAGAATGT
GACATGAAAAAAATGCATTATGTGGACCCTGACCATGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTC
TTGCAGAAGGAATGTCGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGC
GTGGACTTACTCCCTTTTGTGCAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCTCCT
TTTGGGTTCCGGAAGTTCTCCAGTAAAGTCCAGACCCTCTTGGAACTCTTGCCAGAGCACGACCTCCCT
GAACACTTGAAAGCCAAGACCTGTCGGCGCTGTGTGGTTATTGGAAGCGGAGGAATACTGCACGGATTA
GAACTGGGCCACACCCTGAACCAGTTCGATGTTGTGATAAGGTTAAACAGTGCACCAGTTGAGGGATAT
TCAGAACATGTTGGAAATAAAACTACTATAAGGATGACTTATCCAGAGGGCGCACCACTGTCTGACCTT
GAATATTATTCCAATGACTTATTTGTTGCTGTTTTATTTAAGAGTGTTGATTTCAACTGGCTTCAAGCA
ATGGTAAAAAAGGAAACCCTGCCATTCTGGGTACGACTCTTCTTTTGGAAGCAGGTGGCAGAAAAAATC
CCACTGCAGCCAAAACATTTCAGGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGACATCCTT
CAGTACTCAGAGCCTCAGTCAAGGTTCTGGGGCCGAGATAAGAACGTCCCCACAATCGGTGTCATTGCC
GTTGTCTTAGCCACACATCTGTGCGATGAAGTCAGTTTGGCGGGTTTTGGATATGACCTCAATCAACCC
AGAACACCTTTGCACTACTTCGACAGTCAATGCATGGCTGCTATGAACTTTCAGACCATGCATAATGTG
ACAACGGAAACCAAGTTCCTCTTAAAGCTGGTCAAAGAGGGAGTGGTGAAAGATCTCAGTGGAGGCATT
GATCGTGAATTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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| | |
|---|---|
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_003896 |
| **Insert Size:** | 1257 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). |
| **OTI Annotation:** | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_003896.3 |
| **RefSeq Size:** | 2397 bp |
| **RefSeq ORF:** | 1257 bp |
| **Locus ID:** | 8869 |
| **UniProt ID:** | Q9UNP4 |
| **Cytogenetics:** | 2p11.2 |
| **Domains:** | Glyco_transf_29 |
| **Protein Families:** | Transmembrane |
| **Protein Pathways:** | Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways |
| **MW:** | 48 kDa |

**Gene Summary:**

Ganglioside GM3 is known to participate in the induction of cell differentiation, modulation of cell proliferation, maintenance of fibroblast morphology, signal transduction, and integrin-mediated cell adhesion. The protein encoded by this gene is a type II membrane protein which catalyzes the formation of GM3 using lactosylceramide as the substrate. The encoded protein is a member of glycosyltransferase family 29 and may be localized to the Golgi apparatus. Mutation in this gene has been associated with Amish infantile epilepsy syndrome. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) encodes the longer isoform (1).