

## Product datasheet for **SC124687**

### ST3GAL3 (NM\_174964) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL3 (NM_174964) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST3GAL3
Synonyms:	DEE15; EIEE15; MRT12; SIAT6; ST3GALII; ST3Gal III; ST3GalIII; ST3N
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124687 sequence for NM_174964 edited (data generated by NextGen Sequencing)

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ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTCTGGTACTG
GGATTTTTGTATTATTCTGCGTGGAAGCTACACTTACTCCAGTGGGAGGAGGACTCCAGT
AAGTATAGTCACTCTAGCTCACCCAGGAGAAGCCTGTTGCAGATTCAGTGGTTCTTTCC
TTTGACTCCGCTGGACAAACACTAGGCTCAGAGTATGATCGGTTGGGCTTCTCCTGAAT
CTGGACTCTAAACTGCCTGCTGAATTAGCCACCAAGTACGCAAACTTTTTCAGAGGGAGCT
TGCAAGCCTGGCTATGCTTCAGCCTTGATGACGGCCATCTCCCCGGTTCTCCAAGCCA
GCACCCATGTTTCTGGATGACTCCTTTGCAAGTGGGCTAGAATCCGGGAGTTCGTGCCG
CCTTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGTGTCAGTACCAAGAG
TACCGCCTGACCCTGCCTTGGACAGCCTCCGCTGCCCGCTGCATCATCGTGGGCAAT
GGAGGCGTTCTTGCCAACAAGTCTCTGGGGTACGAATTGACGACTATGACATTGTGGTG
AGACTGAATTCAGCACCAGTGAAGGCTTTGAGAAGGACGTGGGACGAAAACGACACTG
CGCATCACCTACCCCGAGGGCGCCATGCAGCGGCTGAGCAGTACGAGCGGATTCTCTC
TTTGTCTCGCCGGCTTCAAGTGGCAGGACTTTAAGTGGTTGAAATACATCGTCTACAAG
GAGAGAGTGAGTGCATCGGATGGCTTCTGGAAATCTGTGGCCACTCGAGTGCCCAAGGAG
CCCCCTGAGATTGAATCCTCAACCCATATTTTCATCCAGGAGGCCGCTTCAACCTCATT
GGCCTGCCCTTCAACAATGGCCTCATGGCCGGGGGAACATCCCTACCCTTGGCAGTGTG
GCAGTGACCATGGCACTACACGGCTGTGACGAGGTGGCAGTGCAGGATTTGGCTATGAC
ATGAGCACACCCAAACGCACCCCTGCACTACTATGAGACCGTTTCGATGGCAGCCATCAA
GAGTCTGGACGCACAATATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTGGTAAAAGCT
CGCGTCATCACTGATCTAAGCAGTGGCATCTGA

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Clone variation with respect to NM\_174964.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_174964 unedited  
 AGGAATTTGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACCAGGCCCGCGCTC  
 GGGCCGGGCGCCACCTCCCCCTGCCTCCCTCCTCCGCTGTGGTCATTTAGGAAATCGTAA  
 ATCATGTGAAGATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCT  
 TTCTGGTACTGGGATTTTTGTATTATTCTGCGTGAAGCTACACTTACTCCAGTGGGAGG  
 AGGACTCCAATTCAGTGGTTCTTCTTTGACTNCGCTGACAACACTAAGCTCAAAAA  
 TGAACCGGGGGGCCTCCCCCGAAAAAGGGGGCCTTAAAAACCGCGCGGGGGTAACC  
 CCCCCCCCCCCCCCTTTTTTAAAGAGAGGGTGGGCCCCCCCGTTTTTTTTTC  
 TCCCCCGGAGAAAGAGAGAATTTTTCTCCCGGGGGGAACAACCACCCCCCCCCACCC  
 CGCCGGGGGGGAAGAAAAATTTTTCCNTCAAAAAAAAAAAAAAAAAAAAAAAAAAAC  
 CCCCCCTTTTTTAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAATTTTTTTTTT  
 TTTAAAAAAAAAAAAANTTTTTNCCCCCTTTCTTTCTTTCTTTNTNNNNNT  
 TTTTTTTTTTGGGTGGGGGGGGGGGGCGCGGCCCCCCCCCCCGGAGCN  
 CCCCCTCCCCTCTTTTTTTTTGGGAGAGAAAAAATCACCCNCGGCGGGAGG  
 GGGGGGGGGGGGAAAAAGAGNATA TNNTNCCTCTTCCCCCTCCGCCCGGGG  
 GGGGGGGGGGNNNACCCNCNCCNNNNNATTTTTTTTTTTTTTTTTNNNGAG  
 AATAAAAAAAAAAAAAAAAAAGAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_174964 unedited  
 NNNTTTTACTNTGNACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTAAAGAAAAAGCTTTATTGTTTCCATGGGGGGGCTGG  
 AACGTTGCCACAGTTGGGAAACCTCTTGGGCTCATTTCCTTTGGCCAGTTAAA  
 GGCAAAACCAACCCCTGGCAGTTTTGTGTTAAAACCTAAAACATGTGAAAGTTGGG  
 AAGTCCGCCCTGGGTATTCTATGCATAACTTGCAGTTGGGGAGGGGAGCTTTCCCA  
 GCAGGGGAGCTGGGCGTCACCCTCCTGAGCTTAAAGTTTTTTTTGTTATACCCCTGGG  
 GCGTTTTGTTGGCTCCAAGGGATGGCTCCAGGTTTCCCATGGAACAGTTAGGGCTG  
 GGGAGGGGAAATACCCGCTTCTCCCCAAAAAGGCCAAACAGTGTGACCTGGAGG  
 GGGCTGGTTTGAATCCTGCCACCATCTGTACCCACAGAAAGGTACAGGCTGGTCC  
 TGGCACTCCTGCCCCACAGGAGCTAACAGGTAACACTGCCTGATGGCCCTTTAGGGG  
 CCTTTCTGCATGGCAAGTGAACCAACTTGACATCTCCAACCTATTAATAATAAAT  
 TATCCCTACCCCTCCCCCTCCCCAAATTCACAAAATGATATCCCCCAACACTGATTGG  
 AAAAGTGATCCGGAAGAAGCCTTGCTGCCAGGGTCCCACCTGCATGCTGGCCTG  
 CTGGGCAAGCCAGAACCTGCTGCCCTCTGCATCAAGGACCCATGCTGAAGAGGCTGAN  
 TGCTGGTCTGAAATGGCTGTTAACAGGCACACTTTGGCTGCTACCAAGGCCTGCTG  
 CCCCTGGGCCCTGCCACGTC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_174964

**Insert Size:**

2250 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\\_174964.1](#), [NP\\_777624.1](#)

**RefSeq Size:** 2316 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 6487

**UniProt ID:** [Q11203](#)

**Cytogenetics:** 1p34.1

**Protein Families:** Secreted Protein, Transmembrane

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

**Gene Summary:** The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Mutations in this gene have been associated with a form of autosomal recessive nonsyndromic cognitive disability as well as infantile epileptic encephalopathy. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1, resulting in an isoform (b, also called A1) that is shorter compared to isoform a. 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.