

## Product datasheet for RC214559

### ST3GAL3 (NM\_174966) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | ST3GAL3 (NM_174966) Human Tagged ORF Clone                                  |
| Tag:                      | Myc-DDK   |
| Symbol:                   | ST3GAL3   |
| Synonyms:                 | DEE15; EIEE15; MRT12; SIAT6; ST3GALII; ST3Gal III; ST3GalIII; ST3N          |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC214559 representing NM_174966<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCGCCTCTTTCTGGTACTGGGATTTTTGT  
ATTATTCTGCGTGAAGCTACACTTACTCCAGTGGGAGGAGACTCCAATTCAGTGGTCTTTCTTTGA  
CTCCGCTGGACAAACACTAGGCTCAGAGTATGATCGGTTGGCTTCCTCCTGAATCTGGACTCTAACTG  
CCTGCTGAATTAGCCACCAAGTACGCAACTTTTCAGAGGGAGCTTCAAGCCTGGCTATGCTTCAGCCT  
TGATGACGGCCATCTTCCCCGGTCTCCAAGCCAGCACCCATGTTCTGGATGACTCCTTCGCAAGTG  
GGCTAGAATCCGGGAGTTCGTGCCGCTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTG  
TCAGTACCAAAGAGTACCGCCTGACCCCTGCCTTGACAGCCTCCGCTGCCGCCGCTGCATCATCGTGG  
GCAATGGAGGCGTTCTTGCCAACAAGTCTCTGGGGTACGAATTGACGACTATGACATTGTGGTGAGACT  
GAATTCAGCACCAGTAAAGGCTTTGAGAAGGACGTGGGCGAGCAAACGACACTGCGCATCACCTACCCC  
GAGGGCGCCATGCAGCGGCTGAGCAGTACGAGCGGATTCTCTTTGTCTCGCCGGCTCAAGTGCC  
AGGACTTTAAGTGGTTGAAATACATCGTCTACAAGGAGAGAGTGTCTGGACGCACAATATCCAGCGAGA  
GAAAGAGTTTCTCGGAAGCTGGTGAAGCTCGGTCATCACTGATCTAAGCAGTGGCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC214559 representing NM\_174966  
Red=Cloning site Green=Tags(s)

MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEEDSNSVVL SFDSAGQTLGSEYDRLGFLNLNLSKL  
 PAELATKYANFSEGACKPGYASALMTAIFPRFSKPAPMFLDDSF RKWARIREFVPPFGIKGQDNL IKAIL  
 SVTKEYRLTPALDSLRCRRCII VGNNGVLANKSLGSRIDDYDIVRLNSAPVKGF EKDVGSKTTLRITYP  
 EGAMQRPEQYERDSL FVLAGFKWQDFKWLKYIVYKERSWTHNIQREKEFLRKL VKARVITDLSSGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8048\\_h01.zip](https://cdn.origene.com/chromatograms/mk8048_h01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_174966

**ORF Size:** 831 bp

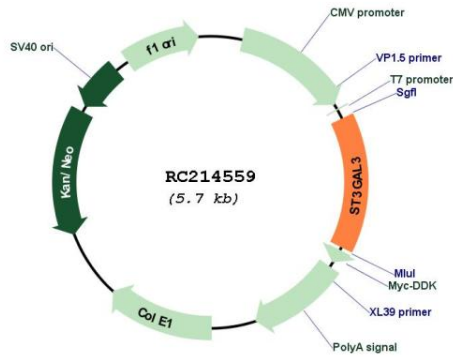
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

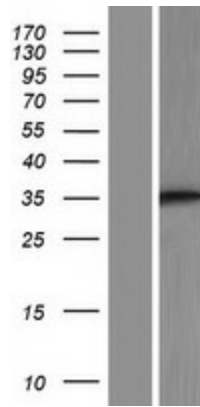
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_174966.4</a>   |
| <b>RefSeq Size:</b>           | 1977 bp   |
| <b>RefSeq ORF:</b>            | 834 bp  |
| <b>Locus ID:</b>              | 6487  |
| <b>UniProt ID:</b>            | <a href="#">Q11203</a>  |
| <b>Cytogenetics:</b>          | 1p34.1  |
| <b>Protein Families:</b>      | Secreted Protein, Transmembrane   |
| <b>Protein Pathways:</b>      | Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways  |
| <b>MW:</b>                    | 31.4 kDa  |
| <b>Gene Summary:</b>          | 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] |

Product images:



Circular map for RC214559



Western blot validation of overexpression lysate (Cat# [LY406360]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214559 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).