

## Product datasheet for **RG231630**

### ST3GAL3 (NM\_001270466) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ST3GAL3 (NM\_001270466) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ST3GAL3  
**Synonyms:** DEE15; EIEE15; MRT12; SIAT6; ST3GALII; ST3Gal III; ST3GalIII; ST3N  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231630 representing NM\_001270466  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCGCCTCTTCTGGTACTGGGATTTTTGT  
ATTATTCTGCGTGAAGCTACACTTACTCCAGTGGGAGGAGACTCCAAGTATGATCGGTTGGGCTTCT  
CCTGAATCTGGACTCTAACTGCCTGCTGAATTAGCCACCAAGTACGCAAACCTTTTCAGAGGGAGCTTGC  
AAGCCTGGCTATGCTTCAGCCTTGATGACGGCCATCTTCCCCGTCCTGGACGCACAATATCCAGCGAGA  
GAAAGAGTTTCTGCGGAAGCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231630 representing NM\_001270466  
Red=Cloning site Green=Tags(s)  
MGLLVFVRNLLLALCLFLVLGFLYSAWKLHLLQWEEDSKYDRLGFLNLDSKLPaelATKYANFSEGAC  
KPGYASALMTAIFPRPGRTISSERKSFCGSW

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001270466.2</a>
<b>RefSeq Size:</b>	1510 bp
<b>RefSeq ORF:</b>	306 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>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]