

## Product datasheet for **RC232216**

### ST3GAL3 (NM\_001270462) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL3 (NM_001270462) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST3GAL3
Synonyms:	DEE15; EIEE15; MRT12; SIAT6; ST3GALII; ST3Gal III; ST3GalIII; ST3N
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232216 representing NM_001270462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTTCTGGTACTGGGATTTTTGT  
ATTATTCTGCGTGAAGCTACACTTACTCCAGTGGGAGGAGACTCCAAGTATGATCGGTTGGGCTTCTCT  
CCTGAATCTGGACTCTAACTGTTCTCCAAGCCAGCACCCATGTTCTGGATGACTCCTTCGCAAGTGG  
GCTAGAATCCGGGAGTTCGTGCCGCTTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGT  
CAGTCACCAAAGAGTACCGCCTGACCCCTGCCTTGGACAGCCTCCGCTGCCGCCGCTGCATCATCGTGGG  
CAATGGAGGCGTTCTTGCCAACAAGTCTCTGGGGTACGAATTGACGACTATGACATTGTGGTGAGACTG  
AATTCAGCACCAGTAAAAGGCTTTGAGAAGGACGTGGGCAGAAAACGACACTGCGCATCACCTACCCCG  
AGGGCGCCATGCAGCGCCTGAGCAGTACGAGCGGATTTCTCTTTGTCCTCGCCGCTTCAAGTGGCA  
GGACTTTAAGTGGTTGAAATACATCGTCTACAAGGAGAGAGTGTCTGGACGCACAATATCCAGCGAGAG  
AAAGAGTTTCTGCGGAAGCTGGTAAAAGCTCGCGTCATCACTGATCTAAGCAGTGGCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC232216 representing NM\_001270462  
 Red=Cloning site Green=Tags(s)

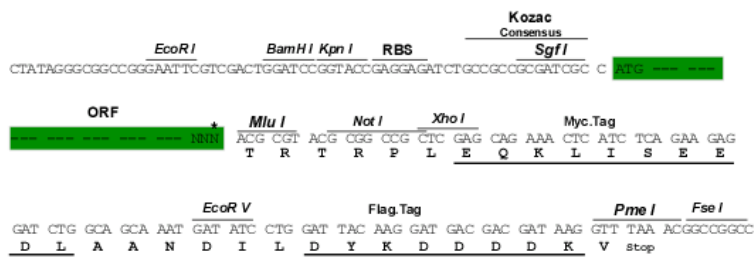
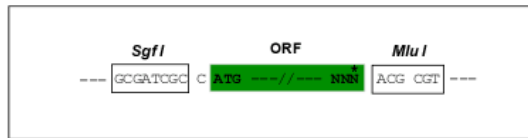
MGLLVFVRNLLLALCLFLVLGFLYSAWKLHLLQWEEDSKYDRLGFLNLDSKLF SKPAPMFLDDDFRKW  
 ARIREFVPPFGIKGQDNLIKAILSVTKEYRLTPALDSLRCRRCIIVGNGGVLANKSLGSRIDYDIVVRL  
 NSAPVKGF EKDVGSKTTLRITYPEGAMQRPEQYERDSLFLVLAGFKWQDFKWLKYIVYKERSWTHNIQRE  
 KEFLRKLVKARVITDLSSGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

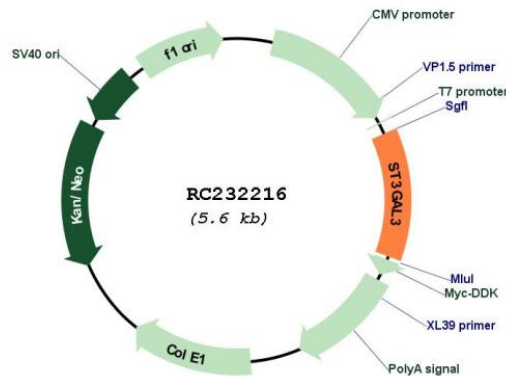
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001270462

**ORF Size:** 690 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001270462.3</a>
<b>RefSeq Size:</b>	1859 bp
<b>RefSeq ORF:</b>	693 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>	27.2 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]