

Product datasheet for **RG215875**

ST3GAL3 (NM_174963) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL3 (NM_174963) 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)



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ORF Nucleotide Sequence:

>RG215875 representing NM_174963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTTCTGGTACTGGGATTTTTGT
 ATTATTCTGCGTGAAGCTACACTTACTCCAGTGGGAGGAGACTCCAGTAAGTATAGTCACTCTAGCTC
 ACCCCAGGAGAAGCCTGTTGCAGATTCACTGGTCTTTTCTTTGACTCCGCTGGACAAACACTAGGCTCA
 GAGTATGATCGGTTGGGCTTCTCCTGAATCTGGACTCTAAACTCTACCGAGGACTCTCTGCACGGTGG
 TTTTTGGCCTTGACTGCATATTGGAATCACCTGGAGAGCCTAAAAAATTACTGATGCCTGCATCCCACCC
 TCTAGAGATTTTGAAGTCACTGAGCGAGGACGCAGCCTTTGCATTAGGATTTTTAAAGCTGCCAGGCCT
 GCTGAATTAGCCACCAAGTACGCAAACCTTTTCAAGGGAGCTTGAAGCCTGGCTATGCTTCAGCCTTGA
 TGACGGCCATCTCCCCGGTTCTCAAGCCAGCACCCATGTTCTGGATGACTCCTTCGCAAGTGGGC
 TAGAATCCGGGAGTTCGTGCCGCTTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGCA
 GTCACCAAAGAGTACCGCTGACCCCTGCCTTGGACAGCCTCCGCTGCCGCCGCTGCATCATCGTGGGCA
 ATGGAGGCGTCTTGCCAAACAGTCTCTGGGGTACGAATTGACGACTATGACATTGTGGTGAGACTGAA
 TTCAGCACCAAGTAAAGGCTTTGAGAAGGACGTGGGCAGCAAAACGACACTGCGCATCACCTACCCCGAG
 GGCGCCATGCAGCGGCTGAGCAGTACGAGCGGATTCTCTTTGTCTCGCCGGCTTCAAGTGGCAGG
 ACTTTAAGTGGTTGAAATACATCGTCTACAAGGAGAGAGTGAAGTGCATCGGATGGCTTCTGGAAATCTGT
 GGCCACTCGAGTGCCCAAGGAGCCCCCTGAGATTGCAATCCTCAACCCATATTTTCATCCAGGAGGCCGCC
 TTCACCCTCATTGGCCTGCCCTTCAACAATGGCCTCATGGGCCGGGGAAACATCCCTACCCTTGGCAGTG
 TGGCAGTGACCATGGCACTACACGGCTGTGACGAGGTGGCAGTGCAGGATTTGGCTATGACATGAGCAC
 ACCCAACGCACCCTGCCTACTATGAGACCGTTTCGCATGGCAGCCATCAAAGAGTCTGGACGCACAAT
 ATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTGGTGAAGCTCGCGTCATCACTGATCTAAGCAGTGGCA
 TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215875 representing NM_174963
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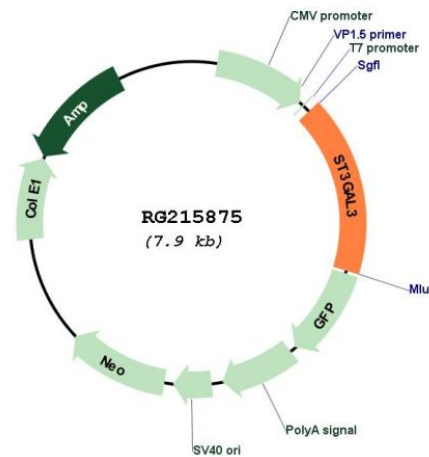
MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEEDSSKYSHSSSPQEKPVADSVVLSFDSAGQTLGS
 EYDRLGFLNLDLSPRTLCTVVFGLDCILESPGEPKLLMPASHPLEILKSLSEDAAFALGFLKLRP
 AELATKYANFSEGACKPGYASALMTAIFPRFSKPAMFLDDSFWRKWARIREFVPPFGIKGQDNLKAILS
 VTKEYRLTPALDSLRCRRCIIVNGGVLANKSLGSRIDYDIVVRLNSAPVKGFEKDVGSKTTLRITYPE
 GAMQRPEQYERDSLFLVLAGFKWQDFKWLKIVYKERVASDGFVKSVATRPVKEPPEIRILNPFYIQEAA
 FTLLIGLPFNGLMGRGNIPTLGSVAVTMALHGCDEVAVAGFGYDMSTPNAPLHYEYTVRMAAIKESWTHN
 IQREKEFLRKLVKARVITDLSSGI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_174963

ORF Size: 1332 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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_174963.1</u> , <u>NP_777623.1</u>
RefSeq Size:	2478 bp
RefSeq ORF:	1335 bp
Locus ID:	6487
UniProt ID:	<u>Q11203</u>
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]