

Product datasheet for RC211663L3

OriGene Technologies, Inc.

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ST3GAL5 (NM_001042437) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ST3GAL5 (NM_001042437) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: ST3GAL5

Synonyms: SATI; SIAT9; SIATGM3S; SPDRS; ST3Gal V; ST3GalV

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

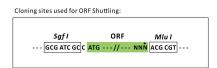
E. coli Selection: Chloramphenicol (34 ug/mL)

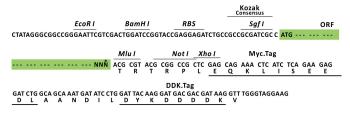
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211663).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001042437

ORF Size: 1185 bp





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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: 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 001042437.1</u>

RefSeq Size: 2262 bp
RefSeq ORF: 1188 bp
Locus ID: 8869

UniProt ID: Q9UNP4

Cytogenetics: 2p11.2

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

MW: 45.4 kDa

Gene Summary: Ganglioside GM3 is known to participate in the induction of cell differentiation, modulation of

cell proliferation, maintenance of fibroblast morphology, signal transduction, and integrinmediated cell adhesion. The protein encoded by this gene is a type II membrane protein which catalyzes the formation of GM3 using lactosylceramide as the substrate. The encoded protein is a member of glycosyltransferase family 29 and may be localized to the Golgi

apparatus. Mutation in this gene has been associated with Amish infantile epilepsy syndrome. Transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Jul 2008]