

Product datasheet for RC209400

ST3GAL5 (NM_003896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL5 (NM_003896) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST3GAL5
Synonyms:	SATI; SIAT9; SIATGM3S; SPDRS; ST3Gal V; ST3GalV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209400 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGACGAAGGCGGGCTGCGGGAGCGGCTCCCCTGCAGCCGGACCGAGGCAGCGGGCAC
CTGCCGGCCGAGCAATGCCAAGTGAGTACACCTATGTGAACTGAGAAGTGATTGCTCGAGGCCCTCCCT
GCAATGGTACACCGAGCTCAAAGCAAGATGAGAAGGCCAGCTTGTTATTTAAAAGACATCTCAAATGT
ACATTGCTTGTTTTGGAGTGTGGATCCTTTATATCCTCAAGTTAAATTACTACTGAAGAATGTGACA
TGAAAAAATGCATTATGTGGACCTGACCGTGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTCTTGCA
GAAGGAATGTCGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGCGTGGAC
TTACTCCCTTTTGTGAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCTCCTTTGGGT
TCCGGAAGTTCTCCAGTAAAGTCCAGACCTCTTGGAAGTCTTGCCAGAGCACGACCTCCCTGAACACTT
GAAAGCCAAGACCTGTGCGCGCTGTGTGTTATTGGAAGCGGAGGAATACTGCACGGATTAGAAGTGGGC
CACACCTGAACCAAGTTCGATGTTGTGATAAGGTTAAACAGTGCACCAAGTTGAGGGATATTCAGAACATG
TTGAAATAAACTACTATAAGGATGACTTATCCAGAGGGCCACCACTGTCTGACCTTGAATATTATTC
CAATGACTTATTTGTTGCTGTTTTATTTAAGAGTGTGATTTCACTGGCTTCAAGCAATGGTAAAAAAG
GAAACCTGCCATTCTGGTACGACTCTCTTTTGAAGCAGGTGGCAGAAAAATCCCCTGCAGCCAA
AACATTTCAAGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGACATCCTTCAGTACTCAGAGCC
TCAGTCAAGTTCGTTGGGCCGAGATAAGAACGTCCCCACAATCGTGTGTCATTGCGGTTGCTTAGCCACA
CATCTGTGCGATGAAGTCAAGTGGCGGTTTTGGATATGACCTCAATCAACCCAGAACACCTTTGCACT
ACTTCGACAGTCAATGCATGGCTGCTATGAACTTTCAGACCATGCATAATGTGACAACGAAACCAAGTT
CCTCTTAAAGCTGGTCAAAGAGGGAGTGGTGAAGATCTCAGTGGAGGCATTGATCGTGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209400 protein sequence
Red=Cloning site Green=Tags(s)

MRTKAAGCAERRPLQPRTEAAAAAPAGRAMPSEYTYVKLRSDCSRPSLQWYTRAQSKMRRPSLLLKDILKC
 TLLVFGVWILYLKLNYYTTEECMKMHYVDPDRVKRAQKYAQQVLQKECRPKFAKTSMLLFEHRYSD
 LLPFVQKAPKDSEAESKYDPPFGFRKFSKVKQTLLELLPEHDLPEHLKAKTCRRCVVIGSGGILHGLELG
 HTLNQFDVVIRLNSAPVEGYSEHVGNKTTIRMTYPEGAPLSDLEYYSNDLFAVLFKSVDFNWLQAMVKK
 ETLPFVWRLFFWKQVAEKIPLQPKHFRILNPVLIKETAFDILQYSEPSRFWGRDKNVPTIGVIAVVLAT
 HLCDEVSLAGFGYDLNQPRTPLHYFDSQCAAMNFQTMHNVTTETKFLKLVKEGVVKDLSSGIDREF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6127_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003896

ORF Size: 1254 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:

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: [NM_003896.3](#), [NP_003887.3](#)

RefSeq Size: 2397 bp

RefSeq ORF: 1257 bp

Locus ID: 8869

UniProt ID: [Q9UNP4](#)

Cytogenetics: 2p11.2

Domains: Glyco_transf_29

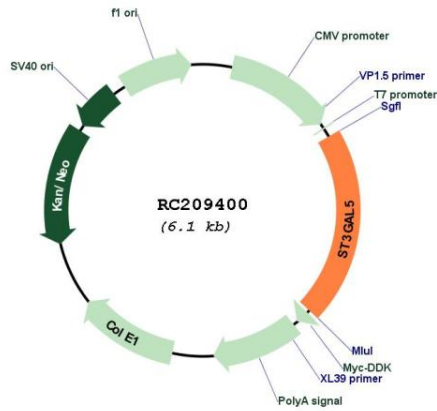
Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

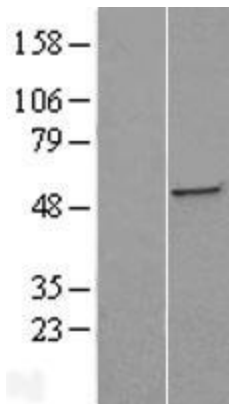
MW: 48 kDa

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 integrin-mediated 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]

Product images:



Circular map for RC209400



Western blot validation of overexpression lysate (Cat# [LY401284]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209400 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).