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Product datasheet for RC211663

ST3GAL5 (NM_001042437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL5 (NM_001042437) 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:

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>RC211663 representing NM_001042437
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCTGTTCCAATGCCAAGTGAGTACACCTATGTGAAACTGAGAAGTGATTGCTCGAGGCCTTCCC
TGCAATGGTACACCCGAGCTCAAAGCAAGATGAGAAGGCCCAGCTTGTTATTAAAAGACATCCTCAAATG
TACATTGCTTGTGTTTGGAGTGTGGATCCTTTATATCCTCAAGTTAAATTATACTACTGAAGAATGTGAC
ATGAAAAAAATGCATTATGTGGACCCTGACCATGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTCTTGC
AGAAGGAATGTCGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGCGTGGA
CTTACTCCCTTTTGTGCAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCTCCTTTTGGG
TTCCGGAAGTTCTCCAGTAAAGTCCAGACCCTCTTGGAACTCTTGCCAGAGCACGACCTCCCTGAACACT
TGAAAGCCAAGACCTGTCGGCGCTGTGTGGTTATTGGAAGCGGAGGAATACTGCACGGATTAGAACTGGG
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CCAATGACTTATTTGTTGCTGTTTTATTTAAGAGTGTTGATTTCAACTGGCTTCAAGCAATGGTAAAAAA
GGAAACCCTGCCATTCTGGGTACGACTCTTCTTTTGGAAGCAGGTGGCAGAAAAAATCCCACTGCAGCCA
AAACATTTCAGGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGACATCCTTCAGTACTCAGAGC
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ACATCTGTGCGATGAAGTCAGTTTGGCGGGTTTTGGATATGACCTCAATCAACCCAGAACACCTTTGCAC
TACTTCGACAGTCAATGCATGGCTGCTATGAACTTTCAGACCATGCATAATGTGACAACGGAAACCAAGT
TCCTCTTAAAGCTGGTCAAAGAGGGAGTGGTGAAAGATCTCAGTGGAGGCATTGATCGTGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

>RC211663 representing NM_001042437
Red=Cloning site Green=Tags(s)

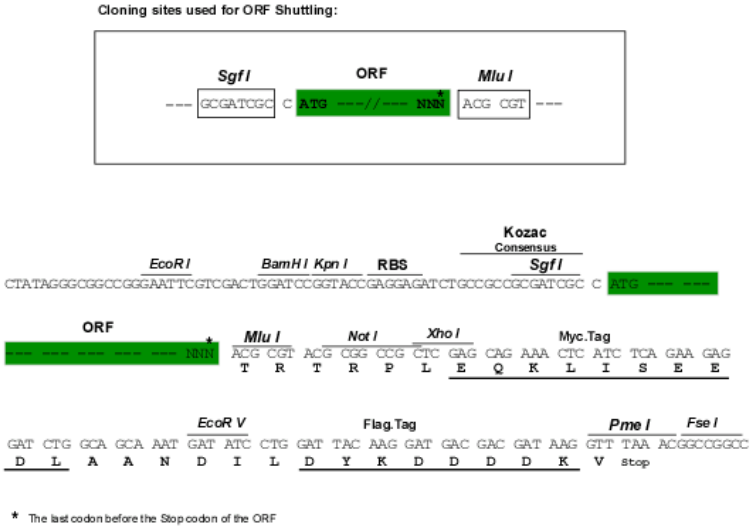
MASVPMPSEYTYVKLRSDCSRPSLQWYTRAQSKMRRPSLLLKDILKCTLLVFGVWILYILKLNYTTEECD
MKKMHYVDPDHVKRAQKYAQQVLQKECRPKFAKTSMALLFEHRYSVDLLPFVQKAPKDSEAESKYDPPFG
FRKFSSKVQTLLELLPEHDLPEHLKAKTCRRCVVIGSGGILHGLELGHTLNQFDVVIRLNSAPVEGYSEH
VGNKTTIRMTYPEGAPLSDLEYYSNDLFVAVLFKSVDFNWLQAMVKKETLPFWVRLFFWKQVAEKIPLQP
KHFRILNPVIIKETAFDILQYSEPQSRFWGRDKNVPTIGVIAVVLATHLCDEVSLAGFGYDLNQPRTPLH
YFDSQCMAAMNFQTMHNVTTETKFLLKLVKEGVVKDLSGGIDREF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042437

ORF Size: 1185 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001042437.2
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 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]

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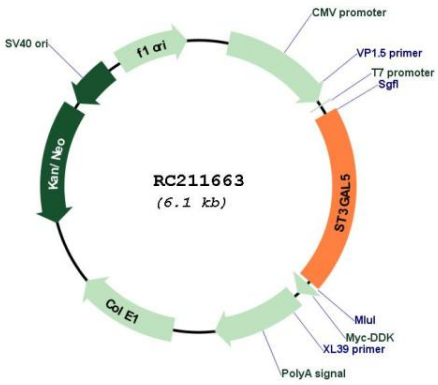
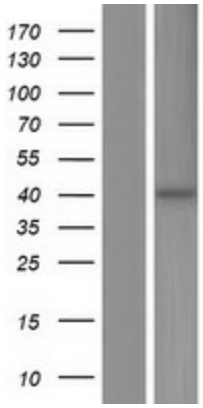
Product images:



Circular map for RC211663



Western blot validation of overexpression lysate (Cat# [LY420902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211663 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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