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Product datasheet for SC311261

ST3GAL5 (NM_001042437) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL5 (NM_001042437) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC311261 representing NM_001042437. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCTTCTGTTCCAATGCCAAGTGAGTACACCTATGTGAAACTGAGAAGTGATTGCTCGAGGCCTTCC CTGCAATGGTACACCCGAGCTCAAAGCAAGATGAGAAGGCCCAGCTTGTTATTAAAAGACATCCTCAAA TGTACATTGCTTGTGTTTGGAGTGTGGATCCTTTATATCCTCAAGTTAAATTATACTACTGAAGAATGT GACATGAAAAAAATGCATTATGTGGACCCTGACCATGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTC TTGCAGAAGGAATGTCGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGC GTGGACTTACTCCCTTTTGTGCAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCTCCT TTTGGGTTCCGGAAGTTCTCCAGTAAAGTCCAGACCCTCTTGGAACTCTTGCCAGAGCACGACCTCCCT GAACACTTGAAAGCCAAGACCTGTCGGCGCTGTGTGGTTATTGGAAGCGGAGGAATACTGCACGGATTA GAACTGGGCCACACCCTGAACCAGTTCGATGTTGTGATAAGGTTAAACAGTGCACCAGTTGAGGGATAT TCAGAACATGTTGGAAATAAAACTACTATAAGGATGACTTATCCAGAGGGCGCACCACTGTCTGACCTT GAATATTATTCCAATGACTTATTTGTTGCTGTTTTATTTAAGAGTGTTGATTTCAACTGGCTTCAAGCA ATGGTAAAAAAGGAAACCCTGCCATTCTGGGTACGACTCTTCTTTTGGAAGCAGGTGGCAGAAAAAATC CCACTGCAGCCAAAACATTTCAGGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGACATCCTT CAGTACTCAGAGCCTCAGTCAAGGTTCTGGGGCCGAGATAAGAACGTCCCCACAATCGGTGTCATTGCC GTTGTCTTAGCCACACATCTGTGCGATGAAGTCAGTTTGGCGGGTTTTGGATATGACCTCAATCAACCC AGAACACCTTTGCACTACTTCGACAGTCAATGCATGGCTGCTATGAACTTTCAGACCATGCATAATGTG ACAACGGAAACCAAGTTCCTCTTAAAGCTGGTCAAAGAGGGAGTGGTGAAAGATCTCAGTGGAGGCATT GATCGTGAATTTTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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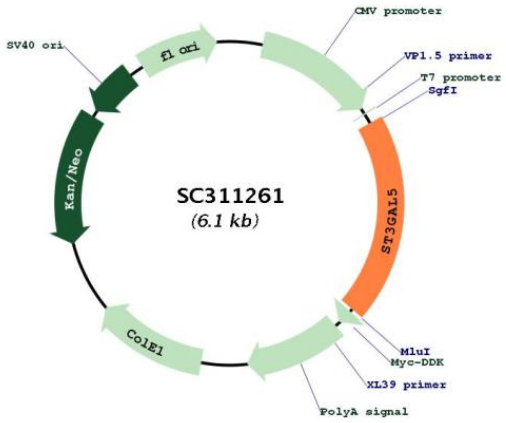
Plasmid Map:



ACCN:	NM_001042437
Insert Size:	1188 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001042437.1
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:	45.6 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] Transcript Variant: This variant (2) has a novel 5' exon compared to transcript variant 1, and encodes a shorter isoform (2) with a different N-terminus compared to isoform 1.