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Product datasheet for SC117667

ST3GAL5 (NM_003896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL5 (NM_003896) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST3GAL5
Synonyms:	SATI; SIAT9; SIATGM3S; SPDRS; ST3Gal V; ST3GalV
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117667 sequence for NM_003896 edited (data generated by NextGen Sequencing)

ATGCGGACGAAGGCGGCGGGCTGCGCGGAGCGGCGTCCCCTGCAGCCGCGGACCGAGGCA
GCGGCGGCACCTGCCGGCCGAGCAATGCCAAGTGAGTACACCTATGTGAAACTGAGAAGT
GATTGCTCGAGGCCTTCCCTGCAATGGTACACCCGAGCTCAAAGCAAGATGAGAAGGCCC
AGCTTGTTATTAAAAGACATCCTCAAATGTACATTGCTTGTGTTTGGAGTGTGGATCCTT
TATATCCTCAAGTTAAATTATACTACTGAAGAATGTGACATGAAAAAAATGCATTATGTG
GACCCTGACCATGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTCTTGCAGAAGGAATGT
CGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGCGTGGAC
TTACTCCCTTTTGTGCAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCT
CCTTTTGGGTTCCGGAAGTTCTCCAGTAAAGTCCAGACCCTCTTGGAACTCTTGCCAGAG
CACGACCTCCCTGAACACTTGAAAGCCAAGACCTGTCGGCGCTGTGTGGTTATTGGAAGC
GGAGGAATACTGCACGGATTAGAACTGGGCCACACCCTGAACCAGTTCGATGTTGTGATA
AGGTTAAACAGTGCACCAGTTGAGGGATATTCAGAACATGTTGGAAATAAAACTACTATA
AGGATGACTTATCCAGAGGGCGCACCACTGTCTGACCTTGAATATTATTCCAATGACTTA
TTTGTTGCTGTTTTATTTAAGAGTGTTGATTTCAACTGGCTTCAAGCAATGGTAAAAAAG
GAAACCCTGCCATTCTGGGTACGACTCTTCTTTTGGAAGCAGGTGGCAGAAAAAATCCCA
CTGCAGCCAAAACATTTCAGGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGAC
ATCCTTCAGTACTCAGAGCCTCAGTCAAGGTTCTGGGGCCGAGATAAGAACGTCCCCACA
ATCGGTGTCATTGCCGTTGTCTTAGCCACACATCTGTGCGATGAAGTCAGTTTGGCGGGT
TTTGGATATGACCTCAATCAACCCAGAACACCTTTGCACTACTTCGACAGTCAATGCATG
GCTGCTATGAACTTTCAGACCATGCATAATGTGACAACGGAAACCAAGTTCCTCTTAAAG
CTGGTCAAAGAGGGAGTGGTGAAAGATCTCAGTGGAGGCATTGATCGTGAATTTTGA

Clone variation with respect to NM_003896.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003896 unedited
TTGTAATACGACTTACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGGCCGGCCGGCGC
CCCCTCATTAGTATGCGGACGAAGGCGGCGGGCTGCGCGGAGCGGCGTCCCCTGCAGCCG
CGGACCGAGGCAGCGGCGGCACCTGCCGGCCGAGCAATGCCAAGTGAGTACACCTATGTG
AAACTGAGAAGTGATTGCTCGAGGCCTTCCCTGCAATGGTACACCCGAGCTCAAAGCAAG
ATGAGAAGGCCCAGCTTGTTATTAAAAGACATCCTCAAATGTACATTGCTTGTGTTTGGA
GTGTGGATCCTTTATATCCTCAAGTTAAATTATACTACTGAAGAATGTGACATGAAAAAA
ATGCATTATGTGGACCCTGACCATGTAAAGAGAGCTCAGAAATATGCTCAGCAAGTCTTG
CAGAAGGAATGTCGTCCCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGG
TATAGCGTGGACTTACTCCCTTTTGTGCAGAAGGCCCCCAAAGACAGTGAAGCTGAGTCC
AAGTACGATCCTCCTTTTGGGTTCCGGAAGTTCTCAGTAAAGTCCAAACCCTCTTGGAAC
TCTTGCCAGAGCACGACCTCCCTGAACACTTTGAAACCAAGACCCTGCCGCGCTGTGTGG
TTATTGGAAGCGGACGAATACTGCACGGATTAAAACTGGGCCCCACCCTTGAACCANTTC
GATGTTGTGATAAGGTTAACAGTGCACCCTTTGGAGGACTTTCAAAACATGTTGGAATAA
AACTACTATAGGTGACTTTCCCGAGGGCCCACACTTGCTTGACCTGGAATATATTCCAAT
GACTTATTGTTGCTGGTGTATTTAAGAGGGCTATTTCACCTGGCTTCACCACGGGCAAAA
AGGAACCCTGCCTTTGGGTACGACTCTCTTTTGGGACACGGGGGAAAAAAATCCCCGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003896 unedited
GGCGGTGTTTCCTTTTTTATCTTTTTAAACTGGCACACTGCCTGGTATACACCGCCAGGT
AGGCATTCAGAAAATTTCTTTTTTTTAAATACACAATTTATAATACTGGGAAGATTTCAT
TTCAGTGTTTCCCAAAACATTATTCCTGGAAAGGGTGTACTCTCCCATGACTCTGGATAA
TAGAAGTTTTGTTCTGATTTTTTAAGTCACCTCAGACAGACACTGGAACACGTTAGATCT
AACACTTAAGTGCTTTGAAAGGGCAGTAAAAAATCCCCAAGGAATTCAAGAATTGTAATA
ATTGCTGGGAAGACTGTGGTTTCTGTAGCCCAGGGTGGCTTCACAGTTGTCAGAGGTCAC
AGATTCTATGTCCCTCTCCGACCAGGGACCTCCAGGACAGCTTCCCTGGTTGGTTCTCGA
GTCTTTCAGCAGAAGGCAGACCAACAGAGAAGGGTTGTGACCTTCTCCAACCAGCCCAGG
CCTCACGCCGCTGCATCGCAGACCCAGTATCAGCAGCAGAGCTACGGAGCACGTCATCCT
GGGAGTGGATCCTCCGTGGGTCACACCAAGCAGCGCAGCAGGGAACCAGAATGAGGTTCA
GGGCCACCATCAAAAGAGTGACCTCCCCTCTCCTTCCAATTAGTTACCTGTATTCAATGT
GCAGTGTAAACGAGCAGAAAGTTTCAAATTAAATTACTTTCTTAAAGATCAATACAACAT
CGTTACATACAATTCTCTNTGAAAAGTCTTTCCAATTCATTCTTAAGTTCATTTACAAAA
TGGTGTGCAAAAACAAACACTGACCTCCAATAATATGAAAAAAAAGTGCGGAGAGCTAAA
TTCTTTCTTGTTTTTAAATTAAAGTTAAAAACTGAGCTGGCCTCCAAGTATTTGCGGGAG
GAGAAATACATACAGAGGCTGCCAAAACGCCTTCNAGTAAAGTGCCTTTCACCGGGGTTT
CTGGGTCAATTACTATCAGCCTCCCTGAA

Restriction Sites: NotI-NotI

ACCN: NM_003896

Insert Size: 2700 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).

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_003896.2, NP_003887.2
RefSeq Size:	2362 bp
RefSeq ORF:	1089 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
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 (1) encodes the longer isoform (1).