OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC306982

ST6GALNAC4 (NM_175040) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC4 (NM_175040) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST6GALNAC4
Synonyms:	IV; SIAT3-C; SIAT3C; SIAT7-D; SIAT7D; ST6GalNAc; ST6GALNACIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306982 representing NM_175040. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCTGGGCTCAGGCCTGGGTGCTGAGATCGACAGTGCCGAGTGCGTGTTCCGCATGAACCAGGCGCCC ACCGTGGGCTTTGAGGCGGATGTGGGCCAGCGCAGCACCCTGCGTGTCGTCTCACACACAAGCGTGCCG CTGCTGCTGCGCAACTATTCACACTACTTCCAGAAGGCCCGAGACACGCTCTACATGGTGTGGGGCCAG GGCAGGCACATGGACCGGGTGCTCGGCGGCCGCACCTACCGCACGCTGCTGCAGCTCACCAGGATGTAC CCCGGCCTGCAGGTGTACACCTTCACGGAGCGCATGATGGCCTACTGCGACCAGATCTTCCAGGACGAG ACGGGCAAGAACCGGAGGCAGTCGGGCTCCTTCCTCAGCACCGGCTGGTTCACCATGATCCTCGCGCTG GAGCTGTGTGAGGAGATCGTGGTCTATGGGATGGTCAGCGACAGCTACTGCAGGGAGAAGAGCCACCCC TCAGTGCCTTACCACTACTTTGAGAAGGGCCGGCTAGATGAGTGTCAGATGTACCTGGCACACGAGCAG GCGCCCCGAAGCGCCCACCGCTTCATCACTGAGAAGGCGGTCTTCTCCCGCTGGGCCAAGAAGAGGCCC ATCGTGTTCGCCCATCCGTCCTGGAGGACTGAGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_175040
Insert Size:	657 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).

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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_175040.3
RefSeq Size:	1630 bp
RefSeq ORF:	657 bp
Locus ID:	27090
UniProt ID:	Q9H4F1
Cytogenetics:	9q34.11
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
MW:	25.3 kDa
Gene Summary:	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein prefers glycoproteins rather than glycolipids as substrates and shows restricted substrate specificity, utilizing only the trisaccharide sequence Neu5Ac-alpha-2,3-Gal-beta-1,3-GalNAc. In addition, it is involved in the synthesis of ganglioside GD1A from GM1B. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an exon in the 5' coding region and utilizes a downstream in-frame start codon compared to variant 1. Variant 2 encodes isoform b which has a shorter N-terminus compared to isoform a.