

Product datasheet for **SC119240**

B4GALNT1 (NM_001478) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALNT1 (NM_001478) Human Untagged Clone
Tag:	Tag Free
Symbol:	B4GALNT1
Synonyms:	GALGT; GalNAc-T; GALNACT; SPG26
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001478, the custom clone sequence may differ by one or more nucleotides

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ATGTGGCTGGGCCGCGGGCCCTGTGCGCTCTGGTCTTCTGCTCGCCTGCGCCTCGCTGGGGCTCCTGT
ACGCGAGCACCCGGGACGCGCCCGGCTCCGGCTACCTCTTGCGCCGTGGGCGCCCCGAAAGCCCCCG
CAGGCCCGAGCTGCCAGATCTTGCTCCTGAGCCCGCTACGCACACATCCCGGTCAAGATCAAGGAGCAA
GTAGTGGGGCTGCTGGCTTGGAACAACAGTTCAGTTCAGTCCAGTGGGGGGGGCTCCCCCTCCCCCTCC
AGAAACAAGTCCGAGCTATTGACCTCACCAAGGCTTTGACCCTGCAGAGCTGAGGGCTGCCTCTGCCAC
AAGAGAGCAGGAGTTCCAGGCCTTTCTGTGAGGAGCCAGTCCCCAGCTGACCAGCTGCTCATAGCCCCCT
GCCAATCCCCGCTCCAGTACCCCTACAGGGTGTGGAAGTTAGCCCCCTCAGGAGCATCTTGGTGCCAG
GGCTGAGCCTTACGCGAGCTTCTGGTCAAGAGGTATACCAGGTGAACCTGACTGCCTCCCTAGGCACCTG
GGAGCTGGCAGGGGAAGTGAAGTGAAGTACTCTACTGGAGAGGGTCAAGCAGATCTCACCTTGTGAGC
CCAGGGCTGGACCAACTCAACAGGCAACTACAAGTGGTCACTTACAGCAGCCGAAGCTACCAGACCAACA
CAGCAGACACAGTCCGGTCTCCACCGAGGGACATGAGGCTGCTTCACTATCCGCATAAGACACCCGCC
CAACCCTCGGCTGTACCCACCTGGGTCTTACCCAGGGAGGCCAGTACAACATCAGCGCTCTAGTCAGG
ATTGCCACCAAGACCTTCTCCGTTATGATCGGGTACGGGCTCTCATCACCAGTATCCGCGCTTCTACC
CAACGGTTACCGTGGTCACTCGTGACGACAGCGACAAGCCAGAGCGCGTTAGTGGCCCTACGTGGAACA
CTATCTCATGCCCTTCGGCAAGGGCTGGTTCGACGGCCGGAACCTGGCCGTGTCTCAAGTAACCAACAAG
TACGTGCTGTGGGTGGACGACGACTTCGCTTCACGGCGCGGACGCGGCTGGAGAGGCTTGTGGACGTGC
TGGAGCGGACGCCGCTGGACCTGGTGGGGGGCGCGGTGCGCGAGATCTCCGGCTTTGCCACCACTTATCG
GCAGCTGCTGAGCGTGGAGCCCGCGGCCCGAGGCTCGGGAAGTGCCTCCGGCAAAGCGCGGCTTCCAC
CACGAGCTCGTCGGCTTCCAGGCTGCGTGGTCAACGACGCGGTGTTAACTTCTTCTGGCGCGGACTG
ACAAGGTGCGCGAGGTTCGGTTTCGACCCCGGCTCAGCCGCGTGGCTCATCTGGAATCTTCTTGGATGG
GCTTGGTTCCCTTCGGGTGGCTCCTGCTCCGACGTCGTGGTGGATCATGCATCCAACTGAAGTGCCT
TGGACATCAAGGGATGCCGGAGCAGAGACTTACGCCCGGTACCGTTACCCAGGATCACTGGACGAGAGCC
AGATGGCCAAACACCGGCTGCTCTTCTTCAAACACCGGCTGCAGTGCATGACCTCCAGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001478 unedited

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GACTCACTATAGCGCGCCGCAATTTCGACGAGGGCAGCCCCACCCATGAGACCTCA
GGCCGGGGCGAGAGCCCGGCACAGCCCGGACCGAAATTTGCGCGTGCCTTAGAGCGTTA
GACAGGATGTGGCTGGGCCGCGGGCCCTGTGCGCTCTGGTCTTCTGCTCGCCTGCGCC
TCGCTGGGGCTCCTGTACGCGAGCACCCGGGACGCGCCGGCCTCCGGCTACCTCTTGCG
CCGTGGGGCGCCCCGAAAGCCCCCGCAGGCCCGAGCTGCCAGATCTTGCTCCTGAGCCC
CGCTACGCACACATCCCGGTCAAGATCAAGGAGCAAGTAGTGGGGCTGCTGGCTTGGAAA
ACTGCAGTTGGAGCAGGNGGGGGGGGGGCTCCCCCTCCCCTTCAAGAACAGTCCGAGC
TATTGACCTACCAAGGCTTTGACCCTGCAGAGCTGAGGGCTGCCTCTGCCACAAGAGA
GCAGGAGTTCCAGGCCTTTCTGTGAGGAGCCAGTCCCCAGCTGACCAGTGCTCATAGC
CCCTGCCAACTCCCCGCTCCAGTACCCCTACAGGNGGGGGGAGGTTACGCCCTCAGG
AGCATCTTTGGTGCCAGGGGCTGAGCCTTACAGGAGCTTCTGGTCAAGGAGGTATACCA
GTGAACCTGACTGCCTNCCTAGGCACTGGGGACTTGGCAGGGGGAAGTACCTGGAGTTA
CTCTACTGGGAAGAGGGCCAGGAGATCTCACCTGGTCAAGCCAAAGGCTGGACCAACT
CACAGGCACTACAAGTGGTCACTTACAGCAGCCGAGCTACCAGACCACAGAGACCAC
AGGCCGGTCTCAACGAGGGAAAGGAAGCGTGTCTTACTATCCGATAAGAAACCCGCCAA
CCTTGGGTGACCACTGGGTTTACCCGAGGGAGGGAGGTTGCCAGAAAAATTAGGT
TTATAACAATGCCACAACT

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001478 unedited <pre> NTTAGCTTTGGACCGGCGCCGCAATCTAGGATCGANCTTTTTTTTTTTTTTTTTTTTTT TGGTTGCACAGGGGACTCTGGTGGCCCTTCTTTGTGCCACAGCATTGCAGAGACACAA CTAAGAATGGCTTTCACCAACCACCAGCCCTCACCCAGCCCCAGAGCCACAAGTTCTCT CTGTGGGGGTGGGGCTGGAGCAGGTACACAGAGTACTGGATCTGAAGATGCAGATGAGGG GCACAGTCTTGGGATTATGTGTTGGGGAACCTCCCCACCCCTCGGTCCCAAGATGAGAG GACAGTGTTTCCACCTTAGGTTCTTAGAGTCCCTCTGGGCTCTTTGGCACTTGAAAGTG ATCCCCCATTTCTGCCCCATGAGAATGGGCAGGGGGAGGACTTGGCACTGGCTGTGGG AGAGGTTATGGCTCCACCAGGCCTCTGGGCACTGGAAAAAGGAGGGGTGTACCAGGACA ACCCCTACTGGGCATCAGGTTCTGAAAAGGAAGAGTGAGGAACTAGAGGCTCAGGGACAG CCAGTAGAGTGCTCACAGGTGGTGGGGGTGTTGGTGGGAAAATCCTGGCAGGGACAAG GAGGCAGGCCAGCCTGACAGTCAGAAATCCCCAGCGGGCCATACTGGGAGGTCATGCA CTGCAGCCGGTGGTTGAAGAAGAGCAGCCGGTGTGGCCATCTGGCTCTCGTCCAGTGA TCCTGGGTAACGGTACCGGCCGTAAGTCTCTGCTTCGGCATCCCTTGATGTCCAAGGCAG CTTCCAGTTTGGATGCATGATCCACCCGACGTCGGGAGCAGGACCAACCCGAAGGGAC CAAGCCCATCCAAGAAGAATTCCAGATGAGCCACGCTGCTGAAGCGGGGGTCGAAACCG ACCCCGCACCTTGTCATTCCGGCCAAGAAAAATTACCCGCCCCGGGGACCAACCAACTT GGAAAGCCACAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001478
Insert Size:	2630 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:	<u>NM_001478.2</u> , <u>NP_001469.1</u>
RefSeq Size:	2885 bp
RefSeq ORF:	1602 bp
Locus ID:	2583
UniProt ID:	<u>Q00973</u>
Cytogenetics:	12q13.3
Domains:	Glycos_transf_2

Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
Gene Summary:	GM2 and GD2 gangliosides are sialic acid-containing glycosphingolipids. GalNAc-T is the enzyme involved in the biosynthesis of G(M2) and G(D2) glycosphingolipids. GalNAc-T catalyzes the transfer of GalNAc into G(M3) and G(D3) by a beta-1,4 linkage, resulting in the synthesis of G(M2) and G(D2), respectively. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2013] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).