

Product datasheet for **SC333255**

B4GALNT1 (NM_001276468) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: B4GALNT1 (NM_001276468) Human Untagged Clone
Tag: Tag Free
Symbol: B4GALNT1
Synonyms: GALGT; GalNAc-T; GALNACT; SPG26
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333255 representing NM_001276468.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGGCTGGGCCCGGGCCCTGTGCGCTCTGGTCTTCTGCTCGCTGCGCTCGCTGGGGCTCCTG
TACGCGAGCACCCGGGACGCGCCCGGCCTCCGGTACCTTTGCGCCGTGGGCGCCCCGCAAAGCCCC
CGCAGGCCCGAGCTGCCAGATCTTGCTCCTGAGCCCCGCTACGCACACATCCCGGTGAGGATCAAGGAG
CAAGTAGTGGGGAGCCAGTCCCCAGCTGACCAGCTGCTCATAGCCCCGCAACTCCCCGCTCCAGTAC
CCCCTACAGGGTGTGGAAGTTCAGCCCCCTCAGGAGCATCTTGGTGCCAGGGCTGAGCCTTCAGGCAGCT
TCTGGTCAAGGATATACCAGGTGAACCTGACTGCCTCCCTAGGCACCTGGGACGTGGCAGGGGAAGTG
ACTGGAGTTACTCTCACTGGAGAGGGTCAGGCAGATCTCACCTTGTGAGCCAGGGCTGGACCAACTC
AACAGGCAACTACAACCTGGTCACTTACAGCAGCCGAAGCTACCAGACCAACAGCAGACACAGTCCGG
TTCTCCACCGAGGGACATGAGGCTGCTTTCACTATCCGCATAAGACACCCGCCCAACCCTCGGCTGTAC
CCACCTGGGTCTCTACCCAGGGAGCCAGTACAACATCAGCGCTCTAGTCACGATTGCCACCAAGACC
TTCCTCCGTTATGATCGGCTACGGGCTCTATCACCAGTATCCGCGCTTCTACCAACGGTTACCGTG
GTCATCGCTGACGACAGCGACAAGCCAGAGCGGTTAGTGGCCCCCTACGTGGAACACTATCTCATGCC
TTCGGCAAGGGCTGGTTCGAGCCGGAACCTGGCCGTGTCTCAAGTAACCACCAAGTACGTGCTGTGG
GTGGACGACGACTTCGTCTTACGCGCGGACCGGCTGGAGAGGCTTGTGGACGTGCTGGAGCCGACG
CCGCTGGACCTGGTGGGGGCGCGGTGCGCGAGATCTCCGGCTTGGCCACCACTTATCGGCAGCTGCTG
AGCGTGGAGCCCGCGCCCCAGGCCTCGGGAACCTGCCTCCGCAAGGCGCGGCTTCCACCACGAGCTC
GTCGGCTTCCCAGGCTGCGTGGTCAACCAGCGCGTGGTAACTTCTTCTGGCGCGGACTGACAAGGTG
CGCGAGGTGCGTTTCGACCCCGCCTCAGCCGCGTGGCTCATCTGGAATTCTTCTGGATGGGCTTGGT
TCCCTTCGGGTTGGCTCCTGCTCCGACGCTGTTGGTGGATCATGCATCCAACTGAAGCTGCCTTGGACA
TCAAGGGATGCCGAGCAGAGACTTACGCCGGTACCGTTACCCAGGATCACTGGACGAGAGCCAGATG
GCCAAACACCGGCTGCTCTTCTCAAACACCGGCTGCAGTGCATGACCTCCAGTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001276468
Insert Size: 1437 bp



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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:	<ol style="list-style-type: none">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_001276468.1</u>
RefSeq Size:	2428 bp
RefSeq ORF:	1437 bp
Locus ID:	2583
UniProt ID:	<u>Q00973</u>
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
MW:	52.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate exon in place of the first exon and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>