

## Product datasheet for **SC333256**

### **B4GALNT1 (NM\_001276469) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4GALNT1 (NM\_001276469) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B4GALNT1  
**Synonyms:** GALGT; GalNAc-T; GALNACT; SPG26  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333256 representing NM\_001276469.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGGCTGGGCCCGGGCCCTGTGCGCTCTGGTCTTCTGCTCGCCTGCGCCTCGCTGGGGCTCCTG
TACGCGAGCACCCGGGACGCGCCCGGCCTCCGGCTACCTCTTGCGCCGTGGGCGCCCCGCAAAGCCCC
CGCAGGCCCGAGCTGCCAGATCTTGCTCCTGAGCCCCGCTACGCACACATCCCGGTCAAGGATCAAGGAG
CAAGTAGTGGGGTGTGGCTTGAACAACAGTTCAGTTGTGAGTCCAGTGGGGGGGCTCCCCCTCCCC
TTCCAGAAACAAGTCCGAGCTATTGACCTACCAAGGCCCTTGACCTGCAGAGCTGAGGGCTGCCTCT
GCCACAAGAGAGCAGGAGTTCCAGGCCTTCTGTGCGAGGAGCCAGTCCCCAGCTGACCAGCTGCTCATA
GCCCTGCCAACTCCCCGCTCCAGTACCCCTACAGGGTGTGGAAGTTCAGCCCCCTCAGGAGCATCTTG
GTGCCAGGGCTGAGCCTTCAAGCAGCTTCTGGTCAAGGAGTATACCAGGTGAACCTGACTGCCTCCCTA
GGCACCTGGGACGTGGCAGGGGAAGTACTGGAGTTACTCTCACTGGAGAGGGTCAGGCAGATCTCACC
TTGTGACCCAGGGCTGGACCAACTCAACAGGCAACTACAAGTGGTCACTTACAGCAGCCGAAGCTAC
CAGACCAACACAGCAGACACAGGTGCAAGGCTGGGTGGAGAGACGGGCAGGCTGGGCAACAGAGAAG
AACCAGAAAGGCTGGAGTGGGCAATGGCAGAGGGCATGGGAGGCATCTGGGCTATGGCCAGAGCTGTC
CAGCCACACAATGGGTGCTTCAACTGGACCAGCAGGGCCAGAGGGAGAAAGGGGGCCTTTGTTTCTGTG
GGGCTGGAGCAGGCCAGAGGAAACCCGAGCCTTGGGTGTGTCTCCCTTAGGCCAACTGTGGGGGGC
CCAGGAAGAGACTTGTCTAA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001276469  
**Insert Size:** 987 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).



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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001276469.1</u>
<b>RefSeq Size:</b>	2013 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	2583
<b>UniProt ID:</b>	<u>Q00973</u>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
<b>MW:</b>	35.5 kDa
<b>Gene Summary:</b>	<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 (3) lacks several 3' exons and has a 3' end that extends into an intron compared to variant 1. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 1.</p>