

## Product datasheet for **SC335146**

### **GBGT1 (NM\_001282629) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GBGT1 (NM_001282629) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBGT1
Synonyms:	A3GALNT; FS; UNQ2513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282629, the custom clone sequence may differ by one or more nucleotides

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ATGCATCGCCGGAGACTGGCCCTGGGTCTGGGGTTCTGCCTGTTGGCGGGCACAAGCCTCAGTGTCTGT  
GGGTGTATCTTGAGAACTGGCTGCCAGTCTCCTATGTCCCTATTATCTCCCTGCCAGAGATCTTCAA  
CATGAAGTGCCTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTCACAGTACCCTCAGCCCAAG  
CTGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCCTGGTTGGCGCCCATCGTCTCCGAGGGAA  
CCTTCAACCCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTACGGTGTGTTGC  
CGTGGGGAATCCTTCTGGAGTCAGCCGAGGAGTCTTTCATGCGTGGGTACCGGGTGCCTACTACATCT  
TCACTGACAACCCTGCAGCCGTTCCCGGGTCCCGCTGGGTCCCACCGCTTCTCAGCTCCATCCCCAT  
CCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGCCGGATGGAGACCATCAGCCAGCACATTGCTAAG  
AGGGCTCACCGGGAGGTGGACTACCTCTTCTGCCTTGATGTGGACATGGTGTTCGGAACCCGTGGGGCC  
CTGAGACCTTGGGAGACCTGGTGGCTGCCATTCACCCAAGCTACTACGCCGTTCCCGCCAGCAGTCCC  
CTATGAGCGCAGGCGTGTTCCTCACTGCCTTTGTGGCAGACAGCGAAGGGGACTTCTATTATGGTGGGGCA  
GTCTTCGGGGGGCAGGTGGCCAGGGTATATGAGTTTACTAGGGGCTGCCACATGGCCATCCTGGCGGACA  
AGGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCACCTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001282629
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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<b>Components:</b>	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).
<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_001282629.1, NP_001269558.1</u>
<b>RefSeq Size:</b>	1966 bp
<b>RefSeq ORF:</b>	885 bp
<b>Locus ID:</b>	26301
<b>UniProt ID:</b>	<u>Q8N5D6</u>
<b>Cytogenetics:</b>	9q34.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - globo series, Metabolic pathways
<b>Gene Summary:</b>	<p>This gene encodes a glycosyltransferase that plays a role in the synthesis of Forssman glycolipid (FG), a member of the globoseries glycolipid family. Glycolipids such as FG form attachment sites for the binding of pathogens to cells; expression of this protein may determine host tropism to microorganisms. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>