

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

ATGCATCGCCGGAGACTGGCCCTGGGTCTGGGGTTCTGCCTGTTGGCGGGCACAAGCCTCAGTGTCTGT
GGGTGTATCTTGAGAACTGGCTGCCAGTCTCCTATGTCCCTATTATCTCCCTGCCAGAGATCTTCAA
CATGAAGCTGCACTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTCACAGTACCCTCAGCCCAAG
CTGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCTGGTTGGCGCCCATCGTCTCCGAGGGAA
CCTTCAACCCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTCACGGTGTTCG
CGTGGGAATCCTTCTGGAGTCAGCCGAGGAGTTCTTCATGCGTGGGTACCGGGTGCACTACTACATCT
TCACTGACAACCTGCAGCCGTTCCCGGGTCCCCTGGGTCCCACCGCTTCTCAGTCCATCCCCAT
CCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGCCGGATGGAGACCATCAGCCAGCACATTGCTAAG
AGGGCTCACCGGGAGGTGGACTACCTCTTCTGCCTTGATGTGGACATGGTGTTCGGAACCCGTGGGGCC
CTGAGACCTTGGGAGACCTGGTGGCTGCCATTACCCAAAGCTACTACGCCGTTCCCGCCAGCAGTTCCC
CTATGAGCGCAGGCGTGTTCCTACTGCCTTTGTGGCAGACAGCGAAGGGGACTTCTATTATGGTGGGGCA
GTCTTCGGGGGGCAGGTGGCCAGGGTATATGAGTTTACTAGGGGCTGCCATGGCCATCCTGGCGGACA
AGGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCACCTGA

Restriction Sites:	SgfI-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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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_001282629.1, NP_001269558.1</u>
RefSeq Size:	1966 bp
RefSeq ORF:	885 bp
Locus ID:	26301
UniProt ID:	<u>Q8N5D6</u>
Cytogenetics:	9q34.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Metabolic pathways
Gene Summary:	<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>