

## Product datasheet for **SC322639**

### **B3GNT1 (B3GNT2) (NM\_006577) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B3GNT1 (B3GNT2) (NM_006577) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GNT1
Synonyms:	3-Gn-T1; 3-Gn-T2; B3GN-T2; B3GNT; B3GNT-2; B3GNT1; beta-1; beta3Gn-T1; beta3Gn-T2; BETA3GNT; BGnT-2; BGNT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322639  
 GGCGCAGCGGCAGCGGCAGCAGCGGCAACAAGTGCCGGAGGCTAGCAGAGCCAAGCCGGA  
 GCAGTCCCTGCCGCCACCGCCGGGCGCCCGTCCGGGGCGCCGCGCATGGAGCGTGA  
 GCTGCGGCGGTGCGCGGGCTGAGCCGCGCGGAGCGGCCGGGACGTGGATGTGGCCGCGAT  
 CTCGCCCTTGCCCCGCCCGCCGAGCTGGAGCTGCTCCCGGACAAGATATGAGAAAT  
 GAGTGTGGACGTGCAAGAATAAAGTTGTTGGGTATCCTGATGATGGCAAATGCTTTCAT  
 TTATTTTATTATGGAAGTCTCCAAAAGCAGTAGCCAAGAAAAAATGAAAAAGGGGAAGT  
 AATAATACCCAAAAGAGAAGTTCTGGAAGATATCTACCCCTCCCGAGGCATACTGGAACCG  
 AGAGCAAGAGAAGCTGAACCGGCAGTACAACCCCATCCTGAGCATGCTGACCAACCAGAC  
 GGGGGAGGCGGGCAGGCTCTCCAATATAAGCCATCTGAACTACTGCAACCTGACCTGAG  
 GGTACAGTCGGTGGTTACGGGTTTTAACAACTTGCCGGACAGATTTAAAGACTTTCTGCT  
 GTATTTGAGATGCCGCAATTATTCAGTCTTATAGATCAGCCGGATAAGTGTGCAAAGAA  
 ACCTTTCTTGTGCTGGCGATTAAGTCCCTCACTCCACATTTTCCAGAAGGCAAGCAAT  
 CCGGGAATCCTGGGGCAAGAAAGCAACGCAGGGAACCAACCGTGGTGGCAGTCTTCT  
 GCTGGGCCAGACACCCCAAGAGGACAACCACCCGACCTTTCAGATATGCTGAAATTTGA  
 GAGTGAGAAGCACAAGACATTCTTATGTGGAACTACAGAGACACTTTCTCAACTTGTCT  
 TCTGAAGGAAGTCTGTTTCTCAGGTGGGTAAGTACTTCCCTGCCAGACACTGAGTTTGT  
 TTTCAAGGGCGATGACGATGTTTTGTGAACCCCATCACATCCTGAATTACTTGAATAG  
 TTTATCCAAGACCAAGCCAAAGATCTTTCATAGGTGATGTGATCCACAATGCTGGACC  
 TCATCGGGATAAGAAGCTGAAGTACTACATCCCAGAAGTTGTTTACTCTGGCCTTACCC  
 ACCCTATGCAGGGGGAGGGGGTTCCTCTACTCCGGCCACCTGGCCCTGAGGCTGTACCA  
 TACTACTGACCAGTCCATCTCTACCCATTGATGACGTTTATACTGGAATGTGCCTTCA  
 GAAACTCGGCCTCGTCCAGAGAAACACAAGGCTTCAGGACATTTGATATCGAGGAGAA  
 AAACAAAAATAACATCTGCTCCTATGTAGATCTGATGTTAGTACATAGTAAAAAAGTCA  
 AGAGATGATTGATATTTGGTCTCAGTTGCAGAGTCTCATTAAAAATGCTAAAAATAGATA  
 CAAACTCAATTTTGCATAGAAAGGTGATTTTGAATAGTCCCATGTTGTGTTCTCACAC  
 TAGAGTAATTTCTATATTAACCATGAAAATTGCCTTTATGAGTGATACCCATTTGAGGG  
 CCTCTAAACCCTTCAATTTGGTACTCACGTGAAGAGGGAAAGCGGAAGATGGTAATTTT  
 TTTATGGATGATATGGCAGGATGATTGGTCTGATCTTACCGGCTAGTGGTCATTTTTAA  
 AAACTTGTACCCTCTTATCTGAAATCCTGTTTCTGGAATTTGGCCATTTTAAAGTATTT  
 TGTTTGCCTCTTCTATAATATTCCTACTTCCCATAATAATGACTGATTTATTTGTAATT  
 CAGGTATTTATAAACCTATTGGCTACAAAGACTTTGTTAAACATTATCCAGTGGTTTTCCG  
 TGAATGGAATTATGTTTATTTTATGGGATTTGGGTAATTTTAAATTGCTAGAAAAC  
 TGAATTTTCAGTTGTCAGTTGTGGAATTCAGTTTTTCAATTGTGGAAATTTCTGCCACC  
 CCAACAGTATTTTTGTGTGTTAATTAATTTGCAAAATGAGAAATCATGGTGTGACTCA  
 TCTAATTTATCTGTTGTGATGTTATGGTCATAATAAGGAGAAAGAGGGTTAATTTTTCT  
 TTGATTTGGTTTCTCGTGGTATCATAGTGAATTTTAGTATTTGAAAAATCAGTGTGAT  
 TCCTAATGGCCAACGAAGATTGAATTGCCGCTAACCAACCATATCGTGTAGTGAATTT  
 TCAATATGGACCAGGAAGGCATATGATTTTGAACCTGAGTAAAAAGTTGAAGTTACAG  
 ACTTTTGCATAGATGGTTTGTCAATTTAAAATCCAGAATTTATTATTGCCATATTTTCA  
 CATGCTGCTTATACAAGATTATTATTGAGTAGTAACTGCTTCCCTGTCTATGTAGAAGTG  
 CCTGTGTTTTTATTATTGTTTCCAGATCAAAGACCAAAACATTTTCTTAAATATATTTTAT  
 GTAATATTTTATTGTATACAGTGTGTTGATGAAATATTTAACTAGAGCATGATTTTT  
 AAATGTTAAGGTGAACATATGTTAAATAAACTGTTATTTTTGAAATTTAAAAATTTGTT  
 TTTTGGGGTATGAACTACTAGAGTTTAAAATCTGCCAACTATTACTTATATGACTA  
 TTGTGTAACATACTTTCTGAAATATTTTGTATAGAATTGAAGTTCTTATCAGATG  
 GGATACTGGGACTATAAACAATGGAATAAAGCCACTGTATTTTTAAAAAAGGAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAAAAAAG

**Restriction Sites:** Please inquire

**ACCN:** NM\_006577

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_006577.5</a> , <a href="#">NP_006568.2</a>
<b>RefSeq Size:</b>	2788 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	10678
<b>UniProt ID:</b>	<a href="#">Q9NY97</a>
<b>Cytogenetics:</b>	2p15
<b>Domains:</b>	Galactosyl_T
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It prefers the substrate of lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 3 both encode the same protein.