

Product datasheet for **SC323946**

B3GNT5 (NM_032047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT5 (NM_032047) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GNT5
Synonyms:	B3GN-T5; beta3Gn-T5
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 NM_032047.4
 TGCACCCACAGCAGTCTGTTGTGGATGGTTGCTGAGCTGCGCATTGCGCATTGGGCTTGC
 TTTGTTTCCTGCCAGGCCAGCATTCTTCTACCAGATCGGCAGGCTTGTGGGCTTCTT
 CCTAGGTCCTCCCTGCACTCTGAATAGGAAAGCTGGAAGCTGTGCTTTAGAGAAGCTT
 TAAGACGCCGAAAGAAACCAGAAGAGTGAGCGCCAGTTGTATGTGGCATGGAATATTCAC
 ATGGGAGAGCCGCATGAGGCCGCCACCACGCTTCTGAAGGATGCCCGTGTGGAAGAAT
 TTTGACGTGCCAGTGTCTCGTTCTACAGGGTGTCCATTCTTCGCAATCTCAGAAAAA
 TGGGACTAAAAGAACTATTTTGTAAAATAAGAAGACTTCCATTTTAAATGACCAACATG
 TATTAAGATGGACACCTACTCTACGAAACACAAAGTTCTATGGTCTCGAAGAAGCCCGTG
 CCTGTTTAAAACTGATCCTAACTAAAAACAGACTTGAGTGGATATGAGAATGTTGGTTAG
 TGGCAGAAGAGTCAAAAAATGGCAGTTAATTATTCAGTTATTTGCTACTTGTTTTTAGC
 GAGCCTCATGTTTTTTGGGAACCAATCGATAATCACATTGTGAGCCATATGAAGTCATA
 TTCTTACAGATACCTCATAAATAGCTATGACTTTGTGAATGATACCCTGTCTCTTAAGCA
 CACCTCAGCGGGCCTCGCTACCAATACTTGATTAACCACAAGGAAAAGTGTCAAGTCA
 AGACGTCTCTTTTACTGTTTTGTAAAACTGCTCCTGAAAATATGATCGACGTTCCGG
 AATTAGAAGGACGTGGGCAATGAAAATATGTTCCGGTCTCAGCTGAATGCCAACATCAA
 AACTCTGTTTGCCTTAGGAACTCCTAATCCACTGGAGGGAGAAGAACTACAAAGAAA
 GGCTTGGGAAGATCAAAGGTACAATGATATAATTCAGCAAGACTTTGTTGATTCTTTCTA
 CAATCTTACTCTGAAATTAATGACGTTTCAAGTTGGGCAAAATACCTATTGTCCACATGC
 CAAATTTCTTATGACTGCTGATGATGACATATTTATTCACATGCCAAATCTGATTGAGTA
 CCTTCAAAGTTTGAACAATTTGGTGTTCAGACTTTGGATTGGTGTGTTTTCATCGTGG
 TGCCCTCCCATTAGAGATAAAGCAGCAAATACTACGTGCTCCTATGAAATGTACCAGTG
 GCCAGTTACCCTGACTACACAGCCGGAGCTGCCTATGTAATCTCCGGTGTGATGCTGC
 CAAAGTCTATGAGGCATCACAGACACTAAATTCAGTCTTTACATAGACGATGTGTTTCT
 GGGCCTCTGTGCCAATAAATAGGGATAGTACCGCAGGACCATGTGTTTTTTCTGGAGA
 GGGTAAAACCTCTTATCATCCCTGCATCTATGAAAAATGATGACATCTCATGGACACTT
 AGAAGTCTCCAGGACCTTTGGAAGATGCTACAGATCCTAAAGTAAAAACCATTTCCAA
 AGGTTTTTTGGTCAAATATACTGCAGATTAATGAAGATAATTCTCTTTGTAATAATAG
 CTATGTGGACACATACCCTGTAGGGCTGCGTTTATCTAATAGTACTTGAATGTTGTATG
 TTTTCACTGTCACTGAGTCAAACCTGGATGAAAAAACCTTTAAATGTTCTGTCTATACCC
 TAAGTAAAATGAGGACGAAAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_032047

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).

OTI Annotation: 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.

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_032047.4, NP_114436.1</u>
RefSeq Size:	4131 bp
RefSeq ORF:	1137 bp
Locus ID:	84002
UniProt ID:	<u>Q9BYG0</u>
Cytogenetics:	3q27.1
Domains:	Galactosyl_T
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
Gene Summary:	This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosylceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids. [provided by RefSeq, Jul 2008]