

## Product datasheet for SC115078

### B3GNT3 (NM\_014256) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT3 (NM_014256) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GNT3
Synonyms:	B3GAL-T8; B3GN-T3; B3GNT-3; beta3Gn-T3; HP10328; TMEM3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115078 sequence for NM_014256 edited (data generated by NextGen Sequencing)

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ATGAAGTATCTCCGGCACCGCGGCCCAATGCCACCCTCATTCTGCCATCGGCGCTTTC
ACCCTCCTCCTCTCAGTCTGCTAGTGTACCACCCACCTGCAAGGTCCAGGAGCAGCCA
CCGGCGATCCCCGAGGCCCTGGCCCTGGCCCACTCCACCCACCCGCCAGCCCCGGCCCCG
TGCCATGCCAACACCTCTATGGTCAACCCCGGACTTCGCCACGCAGCCGCAGCACGTT
CAGAACTCCTCCTGTACAGACTGCCGCCACTTCCCCTGCTGCAGGACGTGCCCCCC
TCTAAGTGCAGCGAGCCGGTCTTCTGCTGCTGGTATCAAGTCTCCCCTAGCAACTAT
GTGCGCCGCGAGCTGCTGCGGCGCACGTGGGGCCGCGAGCGCAAGGTTGCGGGTTGCGAG
CTGCGCCTCCTCTTCTGGTGGGCACAGCCTCCAACCCGCAGGCCCCGAAGGTCAAC
CGGCTGCTGGAGCTGGAGGCACAGACTCACGGAGACATCCTGCAGTGGGACTTCCAGGAC
TCCTTCTTCAACCTCACGCTCAAGCAGGTCCTGTTCTTACAGTGGCAGGAGACAAGGTGC
GCCAACGCCAGCTTCGTGCTCAACGGGGATGATGACGTCTTGCACACACAGACAACATG
GTCTTCTACCTGCAGGACCATGACCCTGGCCGCCACCTTTCGTGGGGCAACTGATCCAA
AACGTGGGCCCATCCGGGCTTTTTGGAGCAAGTACTATGTGCCAGAGGTGGTACTCAG
AATGAGCGGTACCCACCTATTGTGGGGTGGTGGCTTCTGCTGTCGCCGCTTACAGGCC
GCTGCCCTGCGCGTGTGCCATGTCTGGACATCTTCCCATTGATGATGTCTTCTGCT
GGTATGTGTCTGGAGCTTGAGGGACTGAAGCCTGCCTCCCACAGCGGCATCCGCACGCT
GGCGTGGGGCTCCATCGCAACACCTGTCTCTTGGACCCCTGCTTCTACCGGACCTG
CTGCTGGTGCACCGCTTCTACCTTATGAGATGCTGCTCATGTGGGATGCGCTGAACCCAG
CCCAACCTCACCTGCGGCAATCAGACACAGATCTACTGA

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Clone variation with respect to NM\_014256.3  
408 a=>t;983 g=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014256 unedited  
 CAAAATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACCAGAGCTGAGAGG  
 AGCAGGTAGAGGGGCAGAGGCGGGACTGTCTGTCTGGGGGAGCCGCCAGGAGGCTCCTCA  
 GGCCGACCCAGACCCTGGCTGGCCAGGATGAAGTATCTCCGGCACCCGGCGGCCAATGC  
 CACCCTCATTCTGGCCATCGGCGCTTTCACCCTCCTCCTTTCAGTCTGCTAGTGTACC  
 ACCACCTGCAAGGTCCAGGAGCAGCCACCGGCATCCCCGAGGCCCTGGCCTGGCCACC  
 TCCACCCACCCGCCCAGCCCCGGCCCCGTGCCATGCCAACACCTCTATGGTCACCCACCC  
 GGACTTCGCCACGCAGCCGACGACGTTTCAAGACTTCTCCTGTACAGACTGCCGCCA  
 CTTTCCCCTGCTGCAGGACGTGCCCCCTTAAGTGCGCCGACCCGGTCTTCTGCTGCT  
 GGTGATCAAGTCTCCCCTAGCAACTATGTGCGCCGAGCTGCTGCGGCGCACGTGGGG  
 CCGCGAGCGCAAGGTTTCGGGGTTTGCAGCTGCGCCTCCTTCTGCTGGGCACAGCCTC  
 CAACCCGACGAGGCCCGCAAGGTCAACCGGCTGCTGGAGCTGGAGGCACAGACTCACGG  
 AGACATCTGCAGTGGGACTTCCACGACTCCTTCTTCAACCTCACGCTCAAGCANGTCT  
 GTTCTTACAGTGGCAGGAGAACAAGTGCGCCAACGCCAGCTTCGTGCTCACGGGGATGAT  
 GACGTCTTTGCACACCACCAACATGGTCTTTACCTGCNAGACATGACCCTGCCGCCACTC  
 TTCGTGGGCACTGACCAACGTGCCCATCGGCTTTTGGACAGTCTTGGCCAAAGTGTGA  
 CTAATGAGCGACCACTTGGGGGGGGGGGGCTTTGCTGTCGCTTACGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014256 unedited  
 CTATGGACCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTCCCA  
 GTCTTACAAAATTTTATATTCCCAAGGCTGCCCATCACAATGCCTGTGAAGCTTGAC  
 TGGCAAACACTGAGGCCGAAGCTGGGGGCTGCAGGGGTCAGTGGCTCACCCGGTCCCC  
 CCGTAATCTGTA AACATACTGGGTGAAAAGGCTGCTGGAGGACCTGAATCTCTCCCTT  
 CTCCAGGCAGTAGTGAGGCATATGCCTGTGGCCTTGGGCCATTAAAGATCATTCCAGC  
 CCCAGTGTCTTCTGAATTCTTGGGGAACACAGGGATGGGGGCTCCTAATGAGGACCC  
 CAAAACTCTGAGCTCTCACAACCTTCAAAGACTTGCCTCCCTCCTTTGCCACACCT  
 CCACCATTACAGCATTGATCCACAAGTAAGGAGGGGGCGGTCTATTCCACCACCTCT  
 CTGGTATCCCCCAACCTTCTGAGTTGTCTGAGACCCAGGAAAGGGTTAAGATCAGGACC  
 CCTCTCTCTGGGCTGAAAGATATTTCTCACGTCAGCTCTATGTGGACACAGGAGTTTCT  
 GGCTGGCCTGGAAGTGCAGACGGAGCTTATCTGCCATTAACCACTGCAGGTGACTGCT  
 TAGCATCCCGTCTGTGAGTAGGTGAGAGCAGGGAAGTAAGACTTGACTCAAACGGGACG  
 GATGCATCCACAGTTGGAAGTCTAGCACAGGCACTTCTGCCATTAGCAGCCACAAAAAGA  
 GATGGATATTTTCTGGAGTTCCTCCAGCCATCCAGGAAGATGCTGGACAGTACCANGTGG  
 GTTTGAAGGATGTGAGGAGTTCGCNCGCCAGATATCACTCATAAACCTAAAACCTTTCC  
 TGGCACTCCTTATGCTCAGACACAAAGTCTCACTTCTGGGAGGAAGGGGTGCCCTTNC  
 TATGNAACAGGAGCCAGAGCTGGGACA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_014256

**Insert Size:**

5000 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).

<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_014256.2</a> , <a href="#">NP_055071.1</a>
<b>RefSeq Size:</b>	2195 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	10331
<b>UniProt ID:</b>	<a href="#">Q9Y2A9</a>
<b>Cytogenetics:</b>	19p13.11
<b>Domains:</b>	Galactosyl_T
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, 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 and contains a signal anchor that is not cleaved. It prefers the substrates of lacto-N-tetraose and lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains and the biosynthesis of the backbone structure of dimeric sialyl Lewis a. It plays dominant roles in L-selectin ligand biosynthesis, lymphocyte homing and lymphocyte trafficking. [provided by RefSeq, Jul 2008]