

## Product datasheet for **SC100142**

### **B3GNT7 (NM\_145236) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT7 (NM_145236) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GNT7
Synonyms:	beta3GnT7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145236, the custom clone sequence may differ by one or more nucleotides

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ATGTCGCTGTGGAAGAAAACCGTCTACCGAGTCTGTGCCTGGCCCTGGCCCTGCTCGTGGCCGTGACGG
TGTTCCAACGCAGTCTCACCCCTGGTCAGTTTCTGCAGGAGCCTCCGCCACCCACCCTGGAGCCACAGAA
GGCCCAGAAGCCAAATGGACAGCTGGTGAACCCCAACAACTTCTGGAAGAACCCGAAAGATGTGGCTGCG
CCCACGCCCATGGCCTCTCAGGGGCCCCAGGCCTGGGACGTGACCACCACTAACTGCTCAGCCAATATCA
ACTTGACCCACCAGCCCTGGTTCCAGGTCTGGAGCCGAGTTCGGCAGTTTCTTTCTACCGCCACTG
CCGCTACTTCCCCATGCTGCTGAACCACCCGGAGAAGTGCAGGGGCGATGTCTACCTGCTGGTGGTTGTC
AAGTCGGTCATCACGCAGCACGACCGCCGCGAGGCCATCCGCCAGACCTGGGGCCGCGAGCGGCAGTCCG
CGGGTGGGGGCGGAGGCGCCGTGCGCACCTCTTCTGCTGGGCACGGCCCTCAAGCAGGAGGAGCGCAC
GCACTACCAGCAGCTGCTGGCCTACGAAGACCGCCTCTACGGCGACATCCTGCAGTGGGGCTTTCTCGAC
ACCTTCTTCAACCTGACCTCAAGGAGATCCACTTCTCAAGTGGCTGGACATCTACTGCCCCACGTCC
CCTTCAATTTTCAAAGGCGACGATGACGTCTTCTGTAACCCACCAACCTGCTAGAATTTCTGGCTGACCG
GCAGCCACAGGAAAACCTGTTCTGTGGGCGATGTCTGCAGCACGCTCGGCCCATTCGCAGGAAAGACAAC
AAATACTACATCCCGGGGGCCCTGTACGGCAAGGCCAGCTATCCGCCGTATGCAGGCGCGGTGGCTTCC
TCATGGCCGCGAGCCTGGCCCGGCGCTGCACCATGCCTGCGACACCTGGAGCTCTACCGATCGACGA
CGTCTTTCTGGGATGTGCCTGGAGGTGCTGGGCGTGCAGCCACGGCCACGAGGGCTTCAAGACTTTC
GGCATCTCCCGGAACCGCAACAGCCGATGAACAAGGAGCCGTGCTTTTCCGCGCCATGCTCGTGGTGC
ACAAGCTGCTGCCCCCTGAGCTGCTCGCCATGTGGGGGCTGTTGCACAGCAATCTCACCTGCTCCCGCAA
GCTCCAGGTGCTCTGA

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_145236 unedited</p> <pre> CCCCGCCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT TCGGCACGAGGCTTGGGGAGCCTAGGGGCGTCTCGGAGAAATGGGGTGGTCCCCGCCAG GCGGGCGGGGGCGGCCCTGGGCGCGAAGGGGTTAAGGCACCTGGGCCACCGCCCTG CCGGCCCTCTCCCGCGCCGGGAAGAGAAAGTCCGGCGGGGGCGCGCCCGGTCTC CGTCCCCACCCCGCCCGTCCCGCGGCCGAGCCGTGGCGCCAGAGCTGCGAGCCGC TGCCCCCTCCGCGCTCCGGCCCGGCCCATGTCGCTGTGGAAGAAAACCGTCTACCG GAGTCTGTGCCTGGCCCTGGCCCTGCTCGTGGCGTGACGGTGTTC AACGCAGTCTCAC CCCTGGTCAGTTTCTGCAGGAGCCTCCGCCACCCACCCTGGAGCCACAGAAGGCCAGAA GCCAAATGGACAGCCTGGTGAACCCCAACAACCTTCTGGAAGAACCCGAAAGATGTGGC TGCGCCACGCCCATGGCTCTCAGGGGCCACGCTGGGACGTGACCACCACTAACTG TTCAGCCCAATCAACTTGACCACCGCCCTGGTTTCAAGTCTGTAGCCGCAAGTT CCGCCAGTTTCTTCTTCTACCGCACTGGCGTACTTCCCATGTGGTTGAACACCCGG CAAAGTGCAGGGGCGATGTCTACTGGTGGGTTTGTAAAGTCGGCACTACGCAAACGAC CGCGGAGGGCATTTCACACCTTGGCCGTTAACGATCCCTGGGTGGGGCCGGCGCCGGC CCCCCTTCTCTGGTCCGCTCCTAATGAGAGAGGCGACTCTACTGTGGCTCCAAAAC CCTCCTTGGACTCTCCCGGTGGTTTTTCN </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_145236 unedited</p> <pre> NGGAAATACTATGTACGCGCCGCTTTCTANNGATCGGTTTTTTTTTTTTTTTTTTTTTTT TTT TTT CGTCGGCAGACTCCCGTTTTAAAGCCGAGCTCCCGAAAAAAAAAATTCCTAGCCCTTTT AAAAGCTTACAACCTAAGGGGTCCACGTAAGGGGTGATAATTGATCAAGTAACCTGA GGAACGGGGCTGGGGGCTACCCCTCAGCTAATAGGACAAAAAGTTTTACGGGGCTTTC TCACACAATGGCTGGGATTTACAGATAACCCGTCGTTTTGGTCAGGGGTAATATTAT TATCATTTTAACCCCGGGCCCGGGGGGGCCCCAGGGCCTTAGCTATTTATCTTAC CTCTGGTCTTTCCAGCTTTTTGCTTTTCCCTTTTCTCCCGCTTATAAACTAGGGAAA AAGGGAGGTTGGGGAAAACTGGGAAAGACAACCCGAGAAATGGGGGCTCATTCCATAG CAGTAGCGCTGTCCCTTTTTCTTCTGGGCATTTGAACCCCTGGGATCCCTGAACT GGGGGCAAGCCCGAAGCTGCTGGCTGGCTTGCTCATAACCGTGGCTGAAAGACTCTTTTC CTGGGGAGCTCCCCCCCCCGGGAGGCAACCACTTGGGCCAGGCCCTGGCCAGG GCCCTAAACTATTTTAAGGCTTTTAAGGTGCCCGGAAGGATGGTCGGGGAGCCCCCGG GCCTCTGTTGGGGCGCCCTATTTTCCCCCTGAAAAAATTAGCCCTCGGGGCCAACCT TTTGGCCCCCCTTGGGAGGGAACAAGAAAGACTTGTTCCT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145236
<b>Insert Size:</b>	4000 bp
<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>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).

**Reconstitution Method:**

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:** [NM\\_145236.1](#), [NP\\_660279.1](#)

**RefSeq Size:** 3641 bp

**RefSeq ORF:** 1206 bp

**Locus ID:** 93010

**UniProt ID:** [Q8NFL0](#)

**Cytogenetics:** 2q37.1

**Domains:** Galactosyl\_T

**Protein Families:** Transmembrane

**Protein Pathways:** Keratan sulfate biosynthesis, Metabolic pathways

**Gene Summary:** May be involved in keratane sulfate biosynthesis. Transfers N-acetylgalactosamine on to keratan sulfate-related glycans. May play a role in preventing cells from migrating out of the original tissues and invading surrounding tissues.[UniProtKB/Swiss-Prot Function]