

## Product datasheet for **SC331386**

### **B4GALT3 (NM\_001199873) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4GALT3 (NM\_001199873) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B4GALT3  
**Synonyms:** beta4Gal-T3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331386 representing NM\_001199873.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTGCGGAGGCTGCTGGAGCGGCCTGCACGCTGGCCCTGCTTGTGGGCTCCCAGCTGGCTGTCATG
ATGTACCTGTCACTGGGGGGCTCCGAAGTCTCAGTGCCCTATTTGGCCGAGATCAGGGACCGACATTT
GACTATTCTCACCTCGTGATGTCTACAGTAACCTCAGTCACCTGCCTGGGGCCCCAGGGGGTCTCCA
GCTCCTCAAGGTCTGCCCTACTGTCCAGAACGATCTCCTCTCTTAGTGGGTCCTGTGCGGTGCTCTTT
AGCCAGTGCCATCACTGGCAGAGATTGTGGAGCGGAATCCCCGGTAGAACCAGGGGGCCGGTACCGC
CCTGCAGGTTGTGAGCCCGCTCCGAACAGCCATCATTGTGCCTCATCGTCCCGGAGCACCACCTG
CGCCTGCTGCTTACCACCTGCACCCCTTCTTGCAGCGCCAGCAGCTTGCTTATGGCATCTATGTATC
CACCAGGCTGAAATGGAACATTTAACAGGGCAAACCTGTTGAACGTTGGGGTGCAGAGGCCCTGCGT
GATGAAGAGTGGGACTGCCTGTTCTTGCACGATGTGGACCTTGGCCAGAAAATGACCACAATCTGTAT
GTGTGTGACCCCCGGGGACCCCGCATGTTGCCGTTGCTATGAACAAGTTGGATACAGCCTCCCGTAC
CCCCAGTACTTCGGAGGAGTCTCAGCACTTACTCCTGACCAGTACCTGAAGATGAATGGCTTCCCAAT
GAATACTGGGGCTGGGGTGGTGAAGATGACGACATTGCTACCAGGGTGGCCTGGCTGGGATGAAGATC
TCTCGCCCCCACATCTGTAGGACACTATAAGATGGTGAAGCACCGAGGAGATAAGGGCAATGAGGAA
AATCCCCACAGATTTGACCTCCTGGTCCGTACCCAGAATTCCTGGACGCAAGATGGGATGAACACTG
ACATAACAGTTGCTGGCTCGAGAGCTGGGGCCTTTTATACCAACATCACAGCAGACATTGGGACTGAC
CCTCGGGTCTCGGGCTCCTTCTGGGCCACGTTACCCACCTGGTTCTCCCAAGCCTTCCGTCAAGAG
ATGCTGCAACGCCGGCCCCAGCCAGGCTGGGCTCTATCTACTGCCAACACACAGCCCTCCGAGGT
TCACACTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001199873  
**Insert Size:** 1182 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).



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<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>	<u>NM_001199873.1</u>
<b>RefSeq Size:</b>	2438 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	8703
<b>UniProt ID:</b>	<u>O60512</u>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways, N-Glycan biosynthesis
<b>MW:</b>	43.9 kDa
<b>Gene Summary:</b>	<p>This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N-acetyllactosamine chains. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (1) is the longest transcript. Variants 1, 2 and 3 encode the same protein.</p>