

## Product datasheet for **SC122662**

### **B3GALT4 (NM\_003782) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B3GALT4 (NM_003782) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GALT4
Synonyms:	BETA3GALT4; GALT2; GALT4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003782 edited  
 GAGTGCCGCAGTCGGCCAGCCATGGAGCGGAGCTTGTGGCGGCGAGGCCGCGGCGACAA  
 GGTAGCCACCCCCGACGATGCCTCGACCGCGGTCCGACGCTGCACCGCCTCTCCCCGCC  
 CCCCAGGGTGGCTGGTCCCGGTGCGCGCTCAGACCTCCGCATCCCGGGCGTGGTGGT  
 TAAGTCCCCGGCCGTGACCCAGGCCCGGGAGCTAGTCTCCGCCCTTCGCTTTACGGAT  
 CCCCTCGGAGTACGCCGACCATGCAGCTCAGGCTCTCCGGCGCCTCCTTCTCGCCGCT  
 TTGCTGCTGGTGATCGTCTGGACCTCTTCGGGCCTTCGGGGTTGGGGAGGAGTGTCTG  
 AGCTCTCACTAGCCTCCCTGCTCCAGCCCCGCTCACCGGGGCCGCCCTGGCCCTG  
 CCCCCTCTTGTATCCCCAACAGGAAGCTTGAGTGGTCCCGGGGCCCTCCCTTCTG  
 CTCATCTGTTGTGCACGGCTCCGGAGAACCTGAACCAGAGAAACGCCATTGGGGCTTCG  
 TGGGGCGGGTGCAGGAGCCCGGGGGCTCAGGGTACAGACGCTATTCTTGTGGGAGAG  
 CCGAACGCACAGCACCCCGTGTGGGGTCCAGGGGAGTGACCTGGCCTCGGAGTCAGCA  
 GCCCAGGGGATATCTTGCAGGCCGCTTCCAGGACTCTACCGCAACCTCACCTAAAG  
 ACCCTCAGCGGGTGAAGTGGGTGAGAAACACTGCCCCATGGCCGATACGTCCTCAAG  
 ACGGACGATGATGTGTATGTCAACGTCCCTGAAGTGGTATCAGAGCTGGTCTTGGAGGG  
 GGCCGTTGGGGCAATGGGAGAGAAGCACGGAACCCAGAGAGAGGCTGAGCAGGAAGGA  
 GGCCAGGTTTTGCACAGCGAGGAAGTGCCTTCTGTACTTGGGCCGGTGCAGTGGCGC  
 GTGAACCCCTCTCGACACCGGGGGCAGGCACCGCTATCAGAGGAGCAGTGGCCTCAC  
 ACCTGGGGCCCTTTCCACCTATGCCTCAGGCACGGGGTATGTCTGTGACGCTGTCTG  
 GTGACGCTCATTCTCAAGGTGGCCAGCCGGGCACCCCTTCTCCATTAGAGGATGTCTTT  
 GTGGGGTAAGTGCCCGACGAGGAGGCCCGCCCCAACACAGTGTGTCAAGCTGGTGGT  
 GCCACCCACTACCCGCTAGACCGGTGCTGCTATGGGAAATCTGCTGACGTCCCACAGG  
 CTGGACCCCTGGAAGATGCAGGAAGCCTGGAAGCTGGTGGTGGCTCTGACGGGAAAGG  
 ACTGCGCCCTTTTGTCTCTGTTCCAGGAGTCCCTGGGCATCCTGCGGTGTCGAGCAATA  
 GCCTGGTTCAGAGCTGAGAGTGCCTGGGGCCACAGAAAGGCAGGAACAGGACCTTCTC  
 TCTCCAGGCCAACGCAGGGGCCCTCACTGGTGCAGCTGATCTGTTTCTTATACCAG  
 ATCCTCAGTCTCACTAAAGACAGCGATATGGGAGACACCAGGGGCCCTGGCCCGCCAGCC  
 CAAAAGATGGTCACTCGGGAAGAAAAAAGAAAAAATGCTGCAGTTGTTCTCAAGCTA  
 GGGCAGAAAGGGGTGTCAAGCTCCTCAATAAACTTGTCTCCACTTCAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003782 unedited  
 GTACGGATTTGTAACCATTATATAGGCGGCCGGAATCCCGGGGTGAGTGCCGCAGTC  
 GGCCAGCCATGGAGCGGAGCTTGTGGCGGCGAGGCCGCGGCGACAAGGTAGCCACCCCC  
 GCAGCATGCCTCGACCGCGTCCGCAGCTGCACCGCCTCTCCCCGCCCCATGGTGGC  
 TGGTCCCGGTGCGCGCTCAGACCTCCGCATCCCGGGCGTGGTGGTTAAGTCCCCGGCC  
 GTGACCCAGGCCGGGAGCTAGTCTCCGCCCTTCGCTTACGGATCCCCTCGGATAC  
 GCCGACCATGCAGCTCATGCTCTTCCGCGCCTCCTTTCGCCGCTTTGCTGCTGGTGA  
 TCGTCTGGACCTCTTCGGGCCTTCGGGGTTGGGGAGGAGCTGCTGAGCCTCTCACTAG  
 CCTCCCTGCTCCAGCCCCGCCTCACCGGGGCCGCCCTGGCCCTGCCCGCCTCTGGA  
 TCCCAACCAGGAAGCTTGGAGTGGTCCCGGGGCCCTCCCTTCTGCTAATCCTGGGGG  
 CACGGCTCCGAAACCTGAACCAGAGAAACGCCCTTCGGGCTTCTGGGGCGGCTGCGC  
 CAGGCCCGGGGCTCAGGTACAGACCCTATTCTTGTGGGAGACCCGAACGCACAGCAC  
 CCCCAGGGGGGTTCCCAAGGGAGTGGACCTGGCCTCCGGAGTCAGCAGCCCCAGGGG  
 ATATCCTTGCAGGCCCTTCCATGACTCCTAACCGAACCTCCACCCTAAAAACCTTAA  
 GCGGGCTGGACCGGGGCTGGAAAACCCGTGCCATGGCCCGATTCTCCTCAAAACGGAC  
 AATTATGTTTTGTAAACGTCCCGAACTGGTGATAAACTGGTCTTCAAGGGGCCCC  
 TTTGGGCCCATGCGAGAAAATCACGGACCCCGCGATGAGGG

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003782

<b>Insert Size:</b>	1703 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).
<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><a href="#">NM_003782.3</a></u> , <u><a href="#">NP_003773.1</a></u>
<b>RefSeq Size:</b>	1704 bp
<b>RefSeq ORF:</b>	1137 bp
<b>Locus ID:</b>	8705
<b>UniProt ID:</b>	<u><a href="#">O96024</a></u>
<b>Cytogenetics:</b>	6p21.32
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
<b>Gene Summary:</b>	<p>This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene is oriented telomere to centromere in close proximity to the ribosomal protein S18 gene. The functionality of the encoded protein is limited to ganglioseries glycolipid biosynthesis. [provided by RefSeq, Jul 2008]</p>