

Product datasheet for **SC320166**

B4GALT3 (NM_003779) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALT3 (NM_003779) Human Untagged Clone
Tag:	Tag Free
Symbol:	B4GALT3
Synonyms:	beta4Gal-T3
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_003779.2
 ATGGCGGCAGCGATGCCTGCCCGGCTGTTGGGGTGGCGGTGACGACAGGCAGCAAAAGAC
 CAGCTGGTCCCAGATTCGCTGCTGGAGTCTGGATGGAGCCTTTCTCTGCCCTCTGTGAC
 ATTTCCAATTTTAGATAATGCCTCACATCTCTGTCCCCCGGGACCCCTGGAGCCCCA
 TGATCCCTAAGAAGACAGCTTGAACCTAGATCTCACCCCAAGGATGTTGCGGAGGCTGCT
 GGAGCGGCCTTGCACGCTGGCCCTGCTTGTGGGCTCCCAGCTGGCTGTCATGATGTACCT
 TGACTATTCTCACCTCGTGATGTCTACAGTAACCTCAGTCACCTGCCTGGGGCCCCAGG
 GGGTCTCCAGCTCCTCAAGGTCTGCCCTACTGTCCAGAACGATCTCCTCTTTAGTGGG
 TCCTGTGTCGGTGTCTTTAGCCCAAGTGCCTACTGGCAGAGATTGTGGAGCGGAATCC
 CCGGGTAGAACAGGGGGCCGGTACCGCCTGCAGGTTGTGAGCCCCGCTCCCGAACAGC
 CATCATTGTGCCTCATCGTCCCGGGAGCACCACTGCGCCTGCTGCTCTACCACCTGCA
 CCCCTTCTTGACGCCAGCAGCTTGTATGGCATCTATGTCATCCACCAGGCTGGAAA
 TGGAACTTTAACAGGGCAAACTGTTGAACGTTGGGGTGGCAGAGGCCCTGCGTGATGA
 AGAGTGGGACTGCCTGTTCTTGACGATGTGGACCTCTTGCCAGAAAATGACCACAATCT
 GTATGTGTGTGACCCCCGGGACCCCGCATGTTGCCGTTGCTATGAACAAGTTTGGATA
 CAGCCTCCCGTACCCCACTTCCGGAGGAGTCTCAGCACTTACTCCTGACCAGTACCT
 GAAGATGAATGGCTTCCCAATGAATACTGGGGCTGGGGTGGTGAAGATGACGACATTGC
 TACCAGGGTGGCCTGGCTGGGATGAAGATCTCTCGGCCCCACATCTGTAGGACACTA
 TAAGATGGTGAAGCACCGAGGAGATAAGGGCAATGAGGAAAATCCCCACAGATTTGACCT
 CCTGGTCCGTACCCAGAATTCCTGGACGCAAGATGGGATGAACTCACTGACATACCAGTT
 GCTGGCTCGAGAGCTGGGGCCTTTTATACCAACATCACAGCAGACATTGGGACTGACCC
 TCGGGTCTCGGGCTCCTTCTGGGCCAGTTACCCACCTGGTTCTCCCAAGCCTTCCG
 TCAAGAGATGCTGCAACGCCGGCCCCAGCCAGGCTGGGCCTCTACTACTGCCAACCA
 CACAGCCCTCCGAGGTTCACTGACTCCTCCTTCTGTACTACCTAATCATGAAACCGA
 ATTCATGGGGTTGATTCTCCCCACCCTCAGCTCCTCACTGTTCTCAGAGGGATGTGAGG
 GAACTGAACTCTGGTGGCGTGTAGGGGTAGGGGCTCTCCCTCACTGCTGGACTGGAG
 CTGGGCTCCTGTAGACCTGAGGGTCCCTCTCTAGGGTCTCCTGTAGGGCTTATGACT
 GTGAATCCTGTGATGTCATGATTTTATGTGACGATTCTAGGAGTCCCTGCCCTAGAGTA
 GGAGCAGGGCTGGACCCCAAGCCCTCCCTCTTCCATGGAGAGAAGAGTGATCTGGCTTC
 TCCTCGGACCTCTGTGAATATTTATTCTATTTATGGTTCCGGGAAGTTGTTGGTGAAG
 GAAGCCCCTCCCTGGGCATTTTCTGCCTATGCTGGAATAGCTCCCTCTTCTGGTCTGGC
 TCAGGGGCTGGGATTTTATATATTTTCTAATAAAGGACTTTGTCTCGCAAAAAAAAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003779

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:	NM_003779.2 , NP_003770.1
RefSeq Size:	1949 bp
RefSeq ORF:	1182 bp
Locus ID:	8703
UniProt ID:	O60512
Cytogenetics:	1q23.3
Domains:	Galactosyl_T_2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<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 (2) lacks an internal segment in the 5' UTR, and encodes the same protein, as compared to variant 1.</p>