

Product datasheet for **SC305584**

B3GALT5 (NM_033170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALT5 (NM_033170) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GALT5
Synonyms:	3-GalTase 5; B3GalT-V; B3GalTx; B3T5; beta-1; beta-3-Gx-T5; beta3Gal-T5; GLCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305584 representing NM_033170. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTTTCCCGAAGATGAGATTGATGTATATTTGCCTTCTGGTTCTGGGGGCTCTTTGTTGTATTTT
AGCATGTACAGTCTAAATCCTTTCAAAGAACAGTCCTTTGTTTACAAGAAAGACGGGAATTCCTTAAG
CTCCCAGATACAGACTGCAGGCAGACACCTCCCTTCTCGTCCTGCTGGTACCTCATCCACAACAG
TTGGCTGAGCGCATGGCCATCCGGCAGACGTGGGGGAAAGAGAGGATGGTGAAGGGAAAGCAGCTGAAG
ACATTCTTCTCCTGGGGACCACCAGCAGTGCAGCGGAAACGAAAGAGGTGGACCAGGAGAGCCAGCGA
CACGGGGACATTATCCAGAAGGATTTCTAGACGTCTATTACAATCTGACCCTGAAGACCATGATGGGC
ATAGAATGGGTCCATCGCTTTTGTCTCAGGCGCGTTTGTGATGAAAACAGACTCAGACATGTTTCATC
AATGTTGACTATCTGACTGAACTGCTTCTGAAGAAAAACAGAACAACCAGTTTTTCACTGGCTTCTTG
AAACTCAATGAGTTTCCCATCAGGCAGCCATTCAGCAAGTGGTTTGTGAGTAAATCTGAATATCCGTGG
GACAGGTACCCACCATTCTGCTCCGGCACCGGCTACGTGTTTTCTGGCGACGTGGCGAGTCAGGTGTAC
AATGTCTCAAGAGCGTCCCATACATTAACCTGGAAGACGTGTTTGTGGGGCTCTGCCTCGAAAGGCTG
AACATCAGATTGGAGGAGCTCCACTCCCAGCCGACCTTTTTCCAGGGGGCTTACGCTTCTCCGTATGC
CTCTTCAGGAGGATCGTGGCCTGCCACTTCATCAAGCCTCGGACTCTCTGGACTACTGGCAGGCTCTA
GAGAATCCCGGGGGAAGATTGTCGCCTGTCTGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_033170
Insert Size:	933 bp



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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:	<u>NM_033170.1</u>
RefSeq Size:	2653 bp
RefSeq ORF:	933 bp
Locus ID:	10317
UniProt ID:	<u>Q9Y2C3</u>
Cytogenetics:	21q22.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	36.2 kDa
Gene Summary:	<p>This gene encodes a member of a family of membrane-bound glycoproteins. The encoded protein may synthesize type 1 Lewis antigens, which are elevated in gastrointestinal and pancreatic cancers. Alternatively spliced transcript variants using multiple alternate promoters have been observed for this gene. [provided by RefSeq, Sep 2017]</p> <p>Transcript Variant: This variant (2) represents use of a promoter derived from long terminal repeat (LTR) and uses an alternate splice site in the 5' UTR, compared to variant 1.</p>