

Product datasheet for **SC305586**

B3GALT5 (NM_033172) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALT5 (NM_033172) 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
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033172, the custom clone sequence may differ by one or more nucleotides ATGGCTTTCCCGAAGATGAGATTGATGTATATTTGCCTTCTGGTTCTGGGGCTCTTTGT TTGTATTTTAGCATGTACAGTCTAAATCCTTTCAAAGAACAGTCCTTTGTTTACAAGAAA GACGGAACTTCCTTAAGCTCCCAGATACAGACTGCAGGCAGACACCTCCCTTCTCGTC CTGCTGGTGACCTCATCCACAAACAGTTGGCTGAGCGCATGGCCATCCGGCAGACGTGG GGGAAAGAGAGGATGGTGAAGGGAAAGCAGCTGAAGACATTCTTCTCCTGGGGACCACC AGCAGTGCAGCGAAACAAAAGAGGTGGACCAGGAGCCAGCGACACGGGGACATTATC CAGAAGGATTTCTAGAGCTCTATTACAATCTGACCCTGAAGACCATGATGGGCATAGAA TGGGTCCATCGCTTTTGTCTCAGGCGGCGTTTGTGATGAAAACAGACTCAGACATGTTT ATCAATGTTGACTATCTGACTGAACTGCTTCTGAAGAAAAACAGAACAACCAGGTTTTTC ACTGGCTTCTTGAAACTCAATGAGTTTCCCATCAGGCAGCCATTAGCAAGTGGTTTGTG AGTAAATCTGAATATCCGTGGGACAGGTACCCACCATTCTGCTCCGGCACCAGGCTACGTG TTTTCTGGCGACGTGGCGAGTCAGGTGTACAATGTCTCCAAGAGCGTCCCATAACATTA CTGGAAGACGTGTTTGTGGGGCTCTGCCTCGAAAGGCTGAACATCAGATTGGAGGAGCTC CACTCCCAGCCGACCTTTTTTCCAGGGGGCTTACGCTTCTCCGTATGCCTTTCAGGAGG ATCGTGGCCTGCCACTTCATCAAGCCTCGGACTCTTTGGACTACTGGCAGGCTCTAGAG AATTCCTGGGGGAAGATTGTCCGCCTGTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_033172
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.



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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_033172.1, NP_149362.1</u>
RefSeq Size:	2711 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
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 (4) represents use of a promoter derived from long terminal repeat (LTR), but differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a longer N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>