

Product datasheet for **SC120380**

B3GALT6 (NM_080605) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALT6 (NM_080605) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GALT6
Synonyms:	ALGAZ; beta3GalT6; EDSP2; EDSSPD2; SEMDJL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080605, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCTGCTGCGGCGGGCGTGGCGGCGGGCGGGCGGCTAGGCCTGGGCACGCTGGCGCTGTGCGGGG
CGGCGCTGCTCTACCTGGCGCGCTGCGCGGCCGAGCCCGGGACCCAGGGCGATGTCGGGCCGACGCC
GCCTCCCCCGCGCCCGCGCGCCGCGCCTTCTGGCAGTGTGGTGGCCAGCGCGCCCGCGCCGCGC
GAGCGCCGACGCGTGATCCGCAGCACGTGGCTTGC GCGGCGGGGCCCGGGCGACGTGTGGGCGCGCT
TTGCCGTGGGCACGGCCGGCCTGGGCGCCGAGGAGCGGCGGCCCTGGAGCGGGAGCAGGCGCGGCACGG
GGACCTGCTGCTGCTGCCCGCGCTGCGGACGCCTACGAAAACCTCACGGCCAAGGTGCTGGCCATGCTG
GCCTGGTGGACGAGCACGTGGCCTTCGAGTTCGTGCTCAAGGCGGACGACGACTCCTTCGCGCGGCTGG
ACGCGCTGCTGGCCGAGCTGCGCGCCCGGAGCCCGCGCGCCCGCCGCGCCTCTACTGGGCTTCTTCTC
GGGCCGCGGGCCGCTCAAGCCGGGGGGCGCTGGCGCGAGGCCGCGCTGGCAACTCTGCGACTACTACCTG
CCCTACGCGCTGGGCGGGCGGCTACGTGCTCTCGGCCGACCTGGTGCACCTACCTGCGCCTCAGCCGCGACT
ACCTGCGCGCCTGGCACAGCGAGGACGTGTCTTGGGCGCCTGGCTGGCGCCGGTGGACGTCCAGCGGGA
GCACGACCCGCGCTTCGACACCGAATACCGGTCCCGGGTGCAGCAACCACTGCTGGTACGCACAAG
CAGAGCCTGGAGGACATGCTGGAGAAGCACGCGACGCTGGCGCGGAGGGCCGCTGTGCAAGCGCGAGG
TGCAGCTGCGCCTGTCTACGTGTACGACTGGTCCGCGCCGCGCTCGCAGTGTGCCAGAGAAGGGAGGG
CATCCCCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_080605 unedited</p> <pre> CCCCCTATCCCCCGCCGTTGCCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATA TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG CCGCGAATTCGGCAGCAGGGGCGCCATGAAGCTGCTGCGGGCGGGCGTGGCGGGCGGGGCG GCGCTAGGCTGGGCACGCTGGCGCTGTGCGGGGCGGCGCTGCTACCTGGCGCGCTGC GCGGCCGAGCCCGGGGACCCAGGGCGATGTGCGGCCGAGCCCGCTCCCCCGCGCC GGCGCGCCGCGCCCTTCTGGCAGTGTGGTGGCCAGCGCGCCCGCGCCGCGAGCGC CGCAGCGTGATCCGACGACGTGGCTTGCAGCGCGGGGCCCGGGCGACGTGTGGGCG CGCTTTGCCGTGGGCACGGCCGGCTGGGCGCCGAGGAGCGGCGCGCCCTGGAGCGGGAG CAGGCGCGGCACGGGACCTGCTGCTGCTGCCCGCTGCGGACGCTACGAAAACCTC ACGGCCAAGGTGCTGGCCATGCTGGCCTGGCTGGACGAGCAGTGGCCTTCGAGTTCGTG CTCAAGGCGGACGACACTCCTTCGCGCGGCTGGACGCGCTGCTGGCCGAGCTGCGCGCT CGGACCCCGCGCGCCGCGCCCTATACTGGGCATCTTCGCGGCCGCGCCGCGTC AGCCGGGGGGGGGCTGGCGGAGGCCGCTGGCAACTCTGCGACTACTCTGCCCTAC GCGCTGGGCGGGCTACGTGCTCTCGGCCGACCTGGTGCCTACCTGCGCCTCAGCCGN GACTACCTGCGCGCTGCACAGCAAGGACGTGTCTTTGGGCGCCTTGTGGCGCCCGGT GGACACACCCACGGGAAACCC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_080605 unedited</p> <pre> NNCCGGTACAGCTATGNNACCGCGCCGAANCTANGATCGAGTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTCTGATATGAAATTTAATGGCTTAAGCTG AAAAACTAAATTTCCATTTTTTTGGAGTCAAAAATGGGTGCAAACCTGGATTTTTTAA CCCTTCTGTTGGGGGCTCGGACATTTGCTCTTTTCCACAGCGCCAATTTTTCAAAC CCCAAAAACCTGGGCGACCAAGCAAAAAGTGGGGGAGTCCAACCTTGGTTCGAATCCC GCTCTCCACTGGCCATGGGGTCTCAACAAGCCCTCTGGCCTCTCCAAGCACACCAAGG TTCTCAAACAATTCAAATCAAAAAAACACCCCAAGTAAAATTCGATGGCGGGGAC CTGGGGCACCCCTGGGACCGGCAGCCCTGGGCTTCAGTTCCAAATTCGCCGGAGGGC AGGGCCCCCTCTGGTTCAACGGGGTCCCCCCCCCTGGTCCCACCAATTCGGTTCAA AAACAAATGTGGCCCCCGGGGCTGGACTCCCGGCTCTCCAGGGGCCCTTCGCCCCCTC AATTACCCCCCGCCTAGCGACCCTCTCCCTTCCCCCACCCCTTTTTGACGGGGGGCA AAACACCGCCACGTTCTTTTACATCCGTCTCAACAGACTCCATTCCTACCTATTA ACGTTTTTTTTTTCTAAAATCCACCTTTCCGTTATAACCGCGCAGCGCCACCCCT GCCACCCGAAAAATCTTTCTCTGTTTTTCATATATCCTATTCATCTGTCTCTTGTG CCCTTTATTAGCTATNTAATCCTTGCCACGCCCCCTCGCCCGGCTGNCCTCCCTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_080605
Insert Size:	2250 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).
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_080605.2 , NP_542172.1
RefSeq Size:	2793 bp
RefSeq ORF:	2793 bp
Locus ID:	126792
UniProt ID:	Q96L58
Cytogenetics:	1p36.33
Domains:	Galactosyl_T
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	The enzyme encoded by this intronless gene is a beta-1,3-galactosyltransferase found in the medial Golgi apparatus, where it catalyzes the transfer of galactose from UDP-galactose to substrates containing a terminal beta-linked galactose moiety. The encoded enzyme has a particular affinity for galactose-beta-1,4-xylose found in the linker region of glycosamines. This enzyme is required for glycosaminoglycan synthesis. [provided by RefSeq, Jun 2013]