

## Product datasheet for RC223942

### B3GALT6 (NM\_080605) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALT6 (NM_080605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GALT6
Synonyms:	ALGAZ; beta3GalT6; EDSP2; EDSSPD2; SEMDJL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223942 representing NM_080605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCTGCTGCGGGCGGCGTGGCGGGCGGGCGGCGCTAGGCCTGGGCACGCTGGCGCTGTGCGGGG  
CGGCGTGTCTACCTGGCGGCTGCGCGGCCGAGCCCGGGACCCAGGGCGATGTCGGGCCGAGCC  
GCCTCCCCCGCGCCGCGCGCCGCCCTTCTGGCAGTGTGGTGGCCAGCGCGCCCGCGCCGCG  
GAGCGCCGACGCTGATCCGACGACGTGGCTTGC CGGGCGGGGCCCGGGCGACGTGTGGCGCGCT  
TTGCCGTGGGCACGGCCGCGCTGGCGCGGAGGAGCGGCGGCCCTGGAGCGGGAGCAGGCGCGGCACGG  
GGACCTGCTGCTGCTGCCGCGCTGCGCGACGCCACGAAAACCTCACGGCCAAGGTGCTGGCCATGCTG  
GCCTGGCTGGACGACGACGTGGCCTTCGAGTTCGTGCTCAAGGCGGACGACGACTCCTTCGCGCGGCTGG  
ACGCGCTGCTGGCCGAGCTGCGCGCCCGGAGCCCGCGCGCCCGCCGCTCTACTGGGGCTTCTTCTC  
GGGCCGCGCCGCGTCAAGCCGGGGGGCGCTGGCGCGAGGCCGCTGGCAACTCTGCGACTACTACCTG  
CCCTACGCGCTGGGCGCGGCTACGTGCTCTCGGCCGACTGGTGCACTACCTGCGCCTCAGCCGCGACT  
ACCTGCGCGCTGGCACAGCGAGGACGTGTCTTGGGCGCCTGGTGGCGCCGTTGGACGTCCAGCGGGA  
GCACGACCCGCGCTTCGACACCGAATACCGGTCCC GCGGCTGCAGCAACCAGTACCTGGTACGCACAAG  
CAGAGCCTGGAGGACATGCTGGAGAAGCACGCGACGCTGGCGCGGAGGGCCGCTGTGCAAGCGCGAGG  
TGCACTGCGCCTGTCTACGTGTACGACTGGTCCGCGCCGCCCTCGCAGTGTGCCAGAGAAGGGAGGG  
CATCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223942 representing NM\_080605  
Red=Cloning site Green=Tags(s)

MKLLRRAWRRRAALGLGTLALCGAALLYLARCAAEPGDPRAMSGRSPPPPAPARAAAFLAVLVASAPRAA  
 ERRSVIRSTWLARRGAPGDVWARFAVGTAGLGAERRALEREQARHGDL LLLPALRDAYENLTAKVLAML  
 AWLDEHVAFEFVLKADDDSFARLDALLAELRAREPARRRRLYWGFFSGRGRVKPGGRWREAAWQLCDYYL  
 PYALGGGYVLSADLVHYLRRLSRDYLRWHSSEVSLGAWLAPVDVQREHDPFRDTEYRSRGC SNQYLVTHK  
 QSLEDMLEKHATLAREGRLCKREVQLRLSYVYDWSAPPSQCCQRREGIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8116\\_g10.zip](https://cdn.origene.com/chromatograms/mk8116_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080605

**ORF Size:** 987 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_080605.4](#)

**RefSeq Size:** 2793 bp

**RefSeq ORF:** 990 bp

**Locus ID:** 126792

**UniProt ID:** [Q96L58](#)

**Cytogenetics:** 1p36.33

**Domains:** Galactosyl\_T

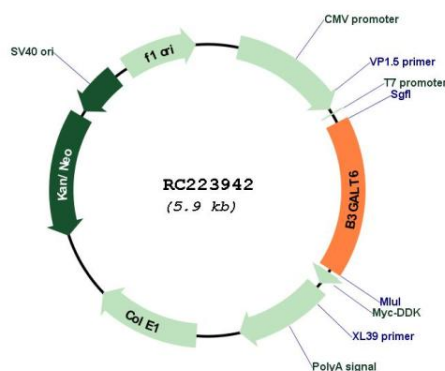
**Protein Families:** Transmembrane

**Protein Pathways:** Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways

**MW:** 37.1 kDa

**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]

## Product images:



Circular map for RC223942

