

Product datasheet for **RG223942**

B3GALT6 (NM_080605) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: B3GALT6 (NM_080605) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: B3GALT6
Synonyms: ALGAZ; beta3GalT6; EDSP2; EDSSPD2; SEMDJL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223942 representing NM_080605
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCTGCTGCGGGGGCGTGGCGGGCGGGCGGGCGCTAGGCCTGGGCACGCTGGCGCTGTGCGGGG
 CGGCGTGTCTACCTGGCGCGCTGCGCGGCCGAGCCCGGGACCCAGGGCGATGTCGGGCCGAGCC
 GCCTCCCCCGCGCCCGCGCGCCGCCCTTCTGGCAGTGTGGTGGCCAGCGCGCCCGCGCCGCG
 GAGCGCCGACGCTGATCCGACGACGTGGCTTGGCGGGCGGGGCCCGGGCGACGTGTGGCGCGCT
 TTGCCGTGGGCACGGCCGCCTGGCGCGGAGGAGCGGGCGGCCCTGGAGCGGGAGCAGGCGGGCACGG
 GGACCTGCTGCTGCTGCCCGCGCTGCGCGACGCCACGAAACCTCACGGCAAGGTGCTGGCCATGCTG
 GCCTGGCTGGACGACGACGTGGCCTTCGAGTTCGTGCTCAAGGCGGACGACGACTCCTTCGCGCGGCTGG
 ACGCGTGTGGCCGAGCTGCGCGCCCGGAGCCCGCGCGCCCGCCGCTCTACTGGGGCTTCTTCTC
 GGGCCGCGCCGCGTCAAGCCGGGGGGCGCTGGCGGAGGCCGCTGGCAACTCTGCGACTACTACCTG
 CCCTACGCGTGGGCGGGGCTACGTGCTCTCGGCCGACTGGTGCCTACCTGCGCCTCAGCCGCGACT
 ACCTGCGCGCTGGCACAGCGAGGACGTGTCTTGGGCGCCTGGTGGCGCCGTTGGACGTCCAGCGGGA
 GCACGACCCGCGCTTCGACACCGAATACCGTCCCAGGCTGCAGCAACCAGTACCTGGTACGCACAAG
 CAGAGCCTGGAGGACATGCTGGAGAAGCACGCGACGCTGGCGCGGAGGGCCGCTGTGCAAGCGCGAGG
 TGAGCTGCGCCTGTCTACGTGTACGACTGGTCCGCGCCGCCCTCGCAGTGTGCCAGAGAAGGGAGGG
 CATCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223942 representing NM_080605
Red=Cloning site Green=Tags(s)

MKLLRRAWRRRAALGLGTLALCGAALLYLARCAAEPGDPRAMSGRSPPPPAPARAAAFLAVLVASAPRAA
 ERRSVIRSTWLARRGAPGDVWARFAVGTAGLGAERRALEREQARHGDL LLLPALRDAYENLTAKVLAML
 AWLDEHVAFEFVLKADDDSFARLDALLAELRAREPARRRRLYWGFFSGRGRVKPGGRWREAAWQLCDYYL
 PYALGGGYVLSADLVHYLRLSRDYLRWHSSEVSLGAWLAPVDVQREHDPFRDTEYRSRGC SNQYL VTHK
 QSLEDMLEKHATLAREGRLCKREVQLRLSYVYDWSAPPSQCCQRREGIP

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_080605.4](#)

RefSeq Size: 2793 bp

RefSeq ORF: 990 bp

Locus ID: 126792

UniProt ID: [Q96L58](#)

Cytogenetics: 1p36.33

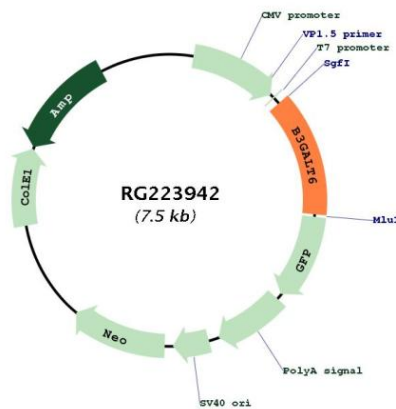
Domains: Galactosyl_T

Protein Families: Transmembrane

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

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 RG223942