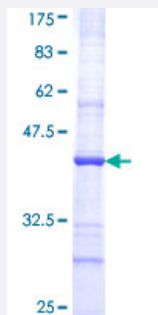


# B3GALT2 (Human) Recombinant Protein (Q01)

Catalog # H00008707-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human B3GALT2 partial ORF ( NP_003774, 324 a.a. - 422 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	AEKIFKVSLGIRRLHLEDVYVGICLAKLRIDPVPPPNEFVFNHWRVSYSSCKYSHLITSHQFQPSELI KYWNHLQQNKHNACANAAKEKAGRYRHRKLH
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.63
<b>Interspecies Antigen Sequence</b>	Mouse (99); Rat (98)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — B3GALT2

Entrez GeneID [8707](#)

GeneBank Accession# [NM\\_003783](#)

Protein Accession# [NP\\_003774](#)

Gene Name B3GALT2

Gene Alias BETA3GALT2, GLCT2, beta3Gal-T2

Gene Description UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2

Omim ID [603018](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene encodes a protein that functions in N-linked glycoprotein glycosylation and shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq]

**Other Designations** OTTHUMP00000033797|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 2|beta-3-gal2

## Pathway

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)