

# Recombinant Full Length Human B4GALT2 Protein, GST-tagged

Cat. No. B4GALT2-1653HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human B4GALT2 full-length ORF ( AAH02431, 1 a.a. - 306 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

306 amino acids

### Description

This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue. Two transcript variants encoding the same protein have been found for this gene.

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<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	59.40 kDa
<b>AA Sequence</b>	<p>MPSTQLLAAA AAAATAPGPT PPPLAPGSLR SPVPCVPRL PRCHPVLTRH  LVLRVHRENP GVLMGGRYTP PDCTPAQTVV VIIPFRHREH HLRVWLHYLH  PILRRQRLRY GVVYINQHGE DTFNRAKLLN VGFLEALKED AAYDCFIFSD  VDLVPMDDRN LYRCGDQPRH FAIAMDKFGF RLPYAGYFGG VSGLSKAQFL  RINGFPNEYW GWGGEDDDIF NRISLTGMKV SRPDIRIGRY RMIKHDRDKH  NEPNPQRFTK IQNTKLTMKR DGIGSVRYQV LEVSRQPLFT NITVDIGRPP  SWPPRG</p>
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	B4GALT2 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2 [ Homo sapiens ]
<b>Official Symbol</b>	B4GALT2
<b>Synonyms</b>	B4GALT2; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2; beta-1,4-galactosyltransferase 2; beta4Gal T2; beta-4-GalT2; beta-1,4-GalTase 2; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 2; UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase 2; UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2; beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 2; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 2; B4Gal-T2; B4Gal-T3; beta4Gal-T2
<b>Gene ID</b>	8704

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mRNA Refseq	NM_001005417
Protein Refseq	NP_001005417
MIM	604013
UniProt ID	O60909

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