

## Recombinant Human B4GALT2 protein, GST-tagged

Cat. No. B4GALT2-029H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human B4GALT2 full-length ORF ( AAH02431, 1 a.a. - 306 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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.</p>
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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<b>Molecular Mass</b>	59.40 kDa
<b>AA Sequence</b>	MPSTQLLAaaaaaaATAPGPTPPPLAPGSLRSPVPCVPRLPRCHPVLTRHLVLRVHR ENPGVLMGGRYTPDCTPAQTVAVIIPFRHREHHLRYWLHYLHPILRRQRLRYGVYV INQHGEDTFNRAKLLNVGFLEALKEDAAYDCFIFSDVDLVPMDDRNLYRCGDQPRH FAIAMDKFGFRLPYAGYFGGVSGLSKAQFLRINGFPNEYWGWGGEDDDIFNRISLT GMKVSRPDIRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMKRDGIGSVRYQVLEV SRQPLFTNITVDIGRPPSWPPRG
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<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
<b>mRNA Refseq</b>	NM_001005417

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**Protein Refseq** NP\_001005417

**MIM** 604013

**UniProt ID** O60909



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