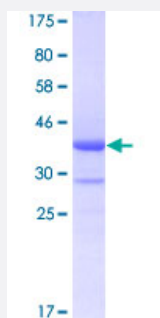


# B4GALT5 (Human) Recombinant Protein (Q01)

Catalog # H00009334-Q01

Size 25 ug, 10 ug

## Applications



## Specification

Product Description	Human B4GALT5 partial ORF ( NP_004767, 48 a.a. - 151 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	AQGILIRDNVRTIGAQVYEQVLRSA YAKRNSSVNDSDYPLDLNHSETFLQTTTFLPEDFTYFANHTC PERLPSMKGPIDINMSEIGMDYIHELFSKDPTIKLGG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.18
Interspecies Antigen Sequence	Mouse (95)
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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 — B4GALT5

Entrez GeneID	<a href="#">9334</a>
GeneBank Accession#	<a href="#">NM_004776</a>
Protein Accession#	<a href="#">NP_004767</a>
Gene Name	B4GALT5
Gene Alias	B4Gal-T5, BETA4-GALT-IV, MGC138470, beta4Gal-T5, beta4GalT-V, gt-V
Gene Description	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
Omim ID	<a href="#">604016</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<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 function of the enzyme encoded by this gene is not clear. This gene was previously designated as B4GALT4 but was renamed to B4GALT5. In the literature it is also referred to as beta4GalT2. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000031806 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 5 UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 beta-1,4-GalT IV beta-1.4-galactosyltransferase V beta4-GalT IV

## Pathway

- [O-Glycan biosynthesis](#)