

# Recombinant Full Length Human B3GALT4 Protein, GST-tagged

**Cat. No.** B3GALT4-1715HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Human B3GALT4 full-length ORF ( AAH32574, 1 a.a. - 378 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 378 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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 is oriented telomere to centromere in close proximity to the ribosomal protein S18 gene. The functionality of the encoded protein is limited to ganglioseries glycolipid biosynthesis.</p> |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | [provided by RefSeq]                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>           | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b> | 67.32 kDa                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>    | <p> MQLRLFRRLLLAALLLVIVWTLFGPSGLGEELLSLSLASLLPAPASPGPPLALPRLLIP<br/> NQEACSGPGAPPFLILVCTAPENLNQRNAIRASWGGLREARGLRVQTLFLLGEPNA<br/> QHPVWGSQGSDLASESAAQGDILQAAFQDSYRNLTCLKTSLGNWAEKHCPMARYV<br/> LKTDVVYVNPVELVSELVLRGGRWGQWERSTEPQREAEQEGGQVLHSEEVPLLY<br/> LGRVHWRVNPSTPGGRHRVSEEQWPHTWGPFPYASGTGYVLSASAVQLILKVA<br/> SRAPLLPLEDVFGVSARRGGLAPTQCVKLAGATHYPLDRCCYGKFLTSHRLDPW<br/> KMQEAWKLVGSDGERTAPFCSWFQGVGLILRCRAIAWLQS </p> |
| <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.                                                                                                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | B3GALT4 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4 [ Homo sapiens ] |
| <b>Official Symbol</b> | B3GALT4                                                                                   |
| <b>Synonyms</b>        | GALT2; GALT4; BETA3GALT4                                                                  |
| <b>Gene ID</b>         | 8705                                                                                      |
| <b>mRNA Refseq</b>     | NM_003782.3                                                                               |

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|                |             |
|----------------|-------------|
| Protein Refseq | NP_003773.1 |
| MIM            | 603095      |
| UniProt ID     | B3KQP5      |

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