

## Product datasheet for **TP309493M**

### **B4GALT4 (NM\_003778) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 (B4GALT4), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209493 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGFNLTFHLSYKFRLLLLLLTLCLTVGWATSNYFVGAIQEIPKAKEFMANFHKTLLIGKGTLTNEASTK KVELDNCPSVSPYLRGQSKLIFKPDLTLEEVQAENPKVSRGRYPPEECKALQRVAILVPHRNREKHLMYL LEHLHPFLQRQQLDYGIYVIHQAEQKFNRAKLLNVGYLEALKEENWDCFIHFDVLDLPENDFNLYKCEE HPKHLVWGRNSTGYRLRYSGYFGGVTALSREQFFKVNQFSNNYWGWWGGEDDDLRLRVELQRMKISRPLPE VGKYTMVFHTRDKGNEVNAERMKLLHQVSRVWRDGLSSCSYKLVSVVEHNPLYINITVDFWFGA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	39.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_003769</a></u>
Locus ID:	8702



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UniProt ID: [Q60513](#), [B2RAZ5](#), [B3KM35](#)

RefSeq Size: 2283

Cytogenetics: 3q13.32

RefSeq ORF: 1032

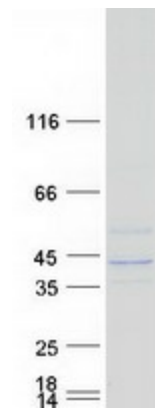
Synonyms: B4Gal-T4; beta4Gal-T4

**Summary:** 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 appears to mainly play a role in glycolipid biosynthesis. Two alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways

### Product images:



Coomassie blue staining of purified B4GALT4 protein (Cat# [TP309493]). The protein was produced from HEK293T cells transfected with B4GALT4 cDNA clone (Cat# [RC209493]) using MegaTran 2.0 (Cat# [TT210002]).