

## Product datasheet for **TP720426**

### **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
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Gln39-Ala344
Tag:	C-His
Predicted MW:	36.8 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris, 150mM NaCl, pH 7.5.
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003769</a>
Locus ID:	8702
UniProt ID:	<a href="#">O60513</a>
Cytogenetics:	3q13.32
Synonyms:	B4Gal-T4; beta4Gal-T4



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**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:**