

## Product datasheet for TP721112XL

## B4GALT3 (NM\_003779) Human Recombinant Protein

## **Product data:**

Pescription:Purified recombinant protein of Human UDP-Gal:betaGLNAc beta 1,4- galactosyltransferase, polypeptide 3 (B4GALT3), transcript variant 2Species:HumanExpression Host:HEK293Expression cDNA Cloop or AA Sequence:Arg32-His393Tag:C-HisPredicted MW:41.5 kDaPurity:95% as determined by SDS-PAGE and Coomassie blue stainingBuffer:Indoxin level is < 0.1 mg/ug of protein of 20 mM Tris-HCl, 150 mM NaCl	Product Type:	Recombinant Proteins
Fxression Host:HEK293Fxpression cDNA Clom or AA Sequence:Arg32-His393Tag:C-HisTag:C-HisPredicted MW:41.5 kDaPurity:>95% as determined by SDS-PAGE and Coomassie blue stainingPurity:voided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaClBuffer:Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaClFundoxin:Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)	Description:	
ArbitronArg32-His393FageC-HisFagiC-HisPredicted MW:41.5 kDaPurity:>95% as determined by SDS-PAGE and Coomassie blue stainingBuffer:Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaClEndotoxin:Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)	Species:	Human
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UniProt ID:   060512, A8K5Z0, A0A384NY44     RefSeq Size:   2417     Cytogenetics:   1q23.3     RefSeq ORF:   1179	RefSeq:	<u>NP 003770</u>
RefSeq Size: 2417   Cytogenetics: 1q23.3   RefSeq ORF: 1179	Locus ID:	8703
Cytogenetics:   1q23.3     RefSeq ORF:   1179	UniProt ID:	<u>O60512, A8K5Z0, A0A384NY44</u>
RefSeq ORF: 1179	RefSeq Size:	2417
	Cytogenetics:	1q23.3
Synonyms: beta4Gal-T3	RefSeq ORF:	1179
	Synonyms:	beta4Gal-T3



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## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

	B4GALT3 (NM_003779) Human Recombinant Protein – TP721112XL
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 beta4GalT5 form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N- acetyllactosamine chains. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2010]
Protein Families	Transmembrane
Protein Pathway	<b>s:</b> Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways, N-Glycan biosynthesis

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