B4GALT4 cDNA Clone – UDP-Gal:betaglcnac Beta 1,4- Galactosyltransferase, Polypeptide 4 (Human)

PRODUCT OVERVIEW

Product Name	B4GALT4, cDNA Clone
Full Product Name	B4GALT4 cDNA Clone
Product Gene Name	B4GALT4 cdna clone
Sequence	atgggcttca acctgacttt ccacctttcc tacaaattcc gattactgtt gctgttgact ttgtgcctga cagtggttgg gtgggccacc agtaactact tcgtgggtgc cattcaagag attcctaaag caaaggagtt catggctaat ttccataaga ccctcatttt ggggaaggga aaaactctga ctaatgaagc atccacgaag aaggtagaac ttgacaactg cccttctgtg tctccttacc tcagaggcca gagcaagctc attttcaaac cagatctcac tttggaagag gtacaggcag aaaatcccaa agtgtccaga ggccggtatc gccctgagga atgtaaagct ttacagaggg tcgccatcct cgttccccac cggaacagag agaaacacct gatgtacctg ctggaacatc tgcatccctt cctgcagagg cagcagctgg attatggcat ctacgtcatc caccaggctg aaggtaaaaa gtttaatcga gccaaactct tgaatgtggg ctatctagaa gccctcaagg aagaaaattg ggactgcttt atattccacg atgtggacct ggtacccgag aatgacttta acctttacaa gtgtgaggag catcccaagc atctggtggt tggcaggaac agcactgggt acaggttacg ttacagtgga tattttgggg gtgttactgc cctaagcaga gagcagtttt tcaaggtgaa tggattctct aacaactact ggggatgggg aggcgaagac gatgacctca gactcagggt tgagctccaa agaatgaaaa tttcccggcc cctgcctgaa gtgggtaaat atacaatggt cttccacact agagacaaag gcaatgaggt gaacgcagaa cggatgaagc tcttgcacca agtgtcacga gtctggagaa cagatgggtt gagtagttgt tcttataaat tagtatctgt ggaacacaat cctttatata tcaacatcac agtggatttc tggtttggtg catga
Molecular Weight	40,041 Da
OMIM	604015
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for B4GALT4 cdna clone	MBS1273640 is a cDNA clone targeting B4GALT4.
Other Notes	Small volumes of B4GALT4 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B4GALT4. It may not necessarily be applicable to this product.

NCBI GI #	33872842
NCBI GeneID	8702
NCBI Accession #	BC004523
UniProt Secondary Accession #	Q68D68; Q9BSW3; Q9C078
UniProt Related Accession #	O60513
NCBI Official Full Name	Homo sapiens UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4, mRNA
NCBI Official Synonym Full Names	beta-1,4-galactosyltransferase 4
NCBI Official Symbol	B4GALT4
NCBI Official Synonym Symbols	B4Gal-T4; beta4Gal-T4
UniProt Protein Name	Beta-1,4-galactosyltransferase 4

UniProt Synonym Protein Names	UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 4; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 4Including the following 2 domains:N-acetyllactosamine synthase (EC:2.4.1.90)Alternative name(s):Nal synthase
Protein Family	Beta-1,4-galactosyltransferase
UniProt Gene Name	B4GALT4
UniProt Synonym Gene Names	Beta-1,4-GalTase 4; Beta4Gal-T4; b4Gal-T4
UniProt Entry Name	B4GT4_HUMAN
NCBI Protein Information	beta-1,4-galactosyltransferase 4
NCBI Summary for B4GALT4	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]
UniProt Comments for B4GALT4	B4GALT4: Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Belongs to the glycosyltransferase 7 family. Protein type: EC 2.4.1.90; EC 2.4.1.275; Glycan Metabolism - glycosphingolipid biosynthesis - lacto and neolacto series; Glycan Metabolism - keratan sulfate biosynthesis; Transferase; Membrane protein, integral Chromosomal Location of Human Ortholog: 3q13.3 Cellular Component: Golgi membrane Molecular Function: beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase activity; galactosyltransferase activity Biological Process: keratan sulfate biosynthetic process; membrane lipid metabolic process
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