

Product datasheet for RC210213

Beta 1,4 galactosyltransferase 6 (B4GALT6) (NM_004775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta 1,4 galactosyltransferase 6 (B4GALT6) (NM_004775) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Beta 1,4 galactosyltransferase 6
Synonyms:	B4Gal-T6; beta4Gal-T6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210213 representing NM_004775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGCTCAGGCGGATGATGCGGGTTTCCAATCGCTCTCTCCTCGCCTTCATCTTCTTCTTCTCC
TCTCTTCGTCTGTCTGACTTTCATCTATGTGGCCCCAGGCATCGCCAACACATATCTCTTTATGGTACA
AGCTCGAGGTATAATGTTGAGAGAAAATGTGAAAACAATAGGTCATATGATCAGGCTGTACAAAATAAA
AACAGTACGCTCAACGGTACAGATTATCCCGAAGGCAATAATTCAAGTATTATCTTGTCAAACAACAA
CGTATCTCCCGAAAACCTCACATACTACCATACCTCCCTGTCCAGAAAAGCTGCCTTATATGCGAGG
ATTCTCAATGTCAATGTAAAGCGAAGTCAGTTTTGATGAAATTCATCAACTCTTCTCCAAGATTTAGAT
ATTGAGCCAGGGGTCATTGGAGGCCAAAAGACTGTAAACCCAGATGGAAGGTGGCAGTTCTCATTCCCT
TCCGTAATCGCCATGAACATCTTCCAATTTTTTCTTACATCTGATTCCAATGCTCCAGAAGCAGCGGCT
GGAATTTGCGTTTTATGTCATTGAACAGACTGGCACACAACCTTTAACCCTGCGATGCTTTTTCAATGTG
GGCTTCAAAGAGGCCATGAAAGACAGTGTCTGGGACTGTGTAATCTTCCACGATGTGGATCATCTACCTG
AAAATGACCGGAATATTACGGATGTGGAGAAATGCCACGTCATTTTGTGCAAAGCTGGATAAATACAT
GTATATCTTCCATATAAAGAATTTTTGGTGGTGAAGTGGGCTGACAGTGAACAATTTAGAAAGATC
AATGGTTTTCTAATGCCTTCTGGGATGGGAGGAGAAGATGATGACCTTTGGAACAGAGTTCACTATG
CTGGATAAATGTAACCGAGCCAGAGGAGACTTAGGAAAATACAAGTCAATTCCTCATCACCATAGAGG
TGAAGTCCAGTTTTTAGGACGGTATAAATTAAGGTATTCCAAGGAGCGTCAGTACATCGATGGACTG
AACAAATTAATATATAGGCCAAAATACTGGTTGATAGTTGTATACAAACATATCTGTAACCTCATGC
CAGAGTTAGTCCAATCGAAGACTAT

ACGGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online >](#)

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004775.5](#)

RefSeq Size: 4814 bp

RefSeq ORF: 1149 bp

Locus ID: 9331

UniProt ID: [Q9UBX8](#)

Cytogenetics: 18q12.1

Domains: Galactosyl_T_2

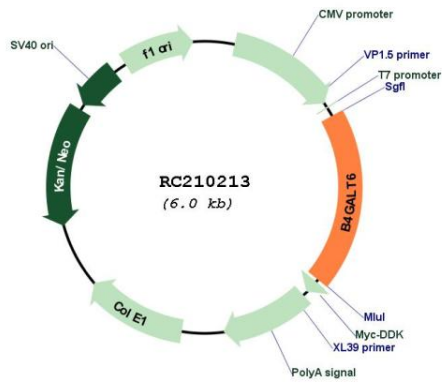
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

MW: 44.9 kDa

Gene Summary: This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes in human. 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. This gene produces multiple protein isoforms - some of which are predicted to lack the N-terminal hydrophobic signal sequence and transmembrane domain. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The canonical enzyme encoded by this gene is a lactosylceramide synthase important for glycolipid biosynthesis. [provided by RefSeq, Jan 2020]

Product images:



Circular map for RC210213