

Product datasheet for RC211225

B4GALT5 (NM_004776) Human Tagged ORF Clone

Product data:

| | |
|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | B4GALT5 (NM_004776) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | B4GALT5 |
| Synonyms: | B4Gal-T5; BETA4-GALT-IV; beta4Gal-T5; beta4GalT-V; gt-V |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC211225 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGCCCGCCGGGGCTGCTGCGGCTGCCGCGCCGCTCGCTGCTCGCCGCGCTTCTCTTTTCTC
TCTCGTCCTCGTGTACTTCGTCTATGTGGCGCCCGCATAGTGAACACCTACCTCTTCATGATGCA
AGCCCAAGGCATTCTGATCCGGACAACGTGAGAACAAATCGGTGCTCAGGTTTATGAGCAGGTGCTTCGG
AGTGCTTATGCCAAGAGGAACAGCAGTGTAAATGACTCAGATTATCCTCTTGACTTGAACCACAGTGAAA
CCTTCCTGCAAACATAACAATTTCTTCCTGAAGACTTCACCTACTTTGCAAACCATACCTGCCCTGAAAG
ACTCCCTTCCATGAAGGGCCCAATAGACATAAACATGAGTGAAATTGGAATGGATTACATTCATGAACTC
TTCTCCAAAGACCCAACCATCAAGCTCGGAGGTCACCTGGAAGCCTTCTGATTGCATGCCTCGGTGGAAGG
TGGCGATCCTTATCCCTTCCGGAACCGCCACGAGCACCTCCAGTCTGTTTCCAGACACCTGCTTCCCAT
GCTCCAGCGCCAGCGCTTGCAAGTTTGCATTTTATGTGGTTGAACAAGTTGGTACCCAACCTTTAATCGA
GCCATGCTTTTCAACGTTGGCTTTCAAGAGGCAATGAAAGACTTGGATTGGGACTGTTTGATTTTTCATG
ATGTAGATCACATACCGAAAGTGATCGCAACTATTATGGATGTGGACAGATGCCGAGGCATTTTGCAAC
CAAATTGGATAAGTATATGTATCTGCTTCTTATACCGAGTTCCTTGGCGGAGTGAGTGGCTTAACAGTG
GAACAATTTCCGAAAATCAATGGCTTTCCTAATGCTTTCTGGGGTTGGGGTGGAGAAGATGACGACCTCT
GGAACAGAGTACAGAATGCAGGCTATTCTGTGAGCCGGCCAGAGGGTGACACAGGAAAGTACAAGTCCAT
TCCTCATACCATCGAGGAGAAGTCCAGTTTCTTGAAGGTATGCTCTGCTGAGGAAGTCAAAGAACGG
CAAGGGCTGGATGGCTCAACAACCTGAACTACTTTGCAAACATCACATACGACGCCTTGATAAAAAACA
TAACTGTCAACCTGACACCCGAGCTGGCTCAGGTGAACGAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211225 protein sequence
 Red=Cloning site Green=Tags(s)

MRARRGLRLPRRSLAALFFFSLSSSLLYFVYVAPGIVNTYLFMMQAQGILIRDNVRTIGAQVVEQVLR
 SAYAKRNSSVNDSDYPLDLNHSETFLQTTTFLPEDFTYFANHTCPELPSMKGPIDINMSEIGMDYIHEL
 FSKDPTIKLGGHWKPSDCMPRWKVAIIPFRNRHEHLPVLFRLHLLPMLQRQLQFAFYVVEQVGTQPFNR
 AMLFNVGFQEAMKDLWDCLIFHDVDHIPESDRNYYGCGQMPRHFAKLDKMYMLLPYTEFFGGVSLTV
 EQFRKINGFPNAFWGWGGEDDDLWNRVQNAAGYSVSRPEGDTGKYKSIPIHHHRGEVQFLGRYALLRKSKER
 QGLDGLNNLNYFANITYDALYKNIITVNLTELAQVNEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

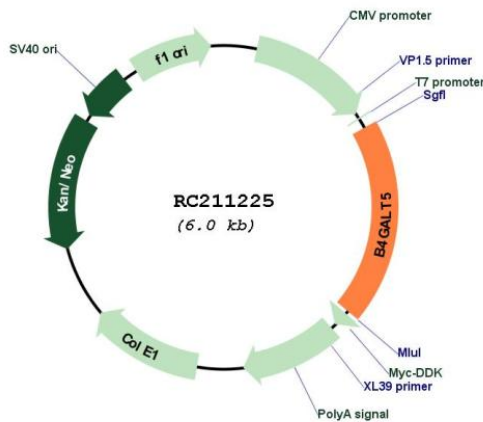
Chromatograms: https://cdn.origene.com/chromatograms/mk6765_c09.zip

Restriction Sites: SgfI-MluI

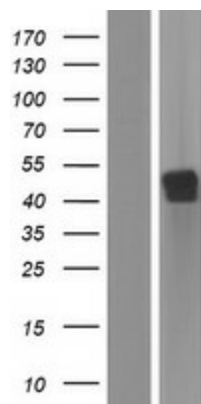
Cloning Scheme:



Plasmid Map:



| | |
|-------------------|--|
| ACCN: | NM_004776 |
| ORF Size: | 1164 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_004776.4 |
| RefSeq Size: | 4743 bp |
| RefSeq ORF: | 1167 bp |
| Locus ID: | 9334 |
| Domains: | Galactosyl_T_2 |
| Protein Families: | Transmembrane |
| Protein Pathways: | O-Glycan biosynthesis |
| MW: | 45.1 kDa |
| Gene 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 function of the enzyme encoded by this gene is not clear. This gene was previously designated as B4GALT4 but was renamed to B4GALT5. In the literature it is also referred to as beta4GalT2. [provided by RefSeq, Jul 2008] |

Product images:

Western blot validation of overexpression lysate (Cat# [LY417757]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211225 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).