

Product datasheet for **RG211225**

B4GALT5 (NM_004776) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALT5 (NM_004776) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4GALT5
Synonyms:	B4Gal-T5; BETA4-GALT-IV; beta4Gal-T5; beta4GalT-V; gt-V
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211225 representing NM_004776 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGCCCGCGGGGCTGCTGCGGCTGCCGCGCGCTCGCTGCTCGCCGCGCTCTTCTCTTTTCTC
TCTCGTCTCGTGTACTTCGTCATGTGGCGCCCGCATAGTGAACACCTACCTCTTCATGATGCA
AGCCCAAGGCATTCTGATCCGGGACAACGTGAGAAACAATCGGTGCTCAGGTTTATGAGCAGGTGCTCGG
AGTGCTTATGCCAAGAGGAACAGCAGTGTAAATGACTCAGATTATCCTCTTGACTTGAACCACAGTGAAA
CCTTCCTGCAAACATAACATTTCTTCTGAAGACTTCACCTACTTTGCAAACCATACCTGCCCTGAAAG
ACTCCCTTCCATGAAGGGCCCAATAGACATAAACATGAGTGAAATGGAATGGATTACATTCATGAACTC
TTCTCAAAGACCAACCATCAAGCTCGGAGGTCACTGGAAGCCTTCTGATTGCATGCCTCGGTGGAAGG
TGGCGATCCTTATCCCCTTCCGGAACCGCCACGAGCACCTCCCAGTCCTGTTTCAGACACCTGCTCCCAT
GCTCCAGCGCCAGCGCTTGCAAGTTTGCATTTTATGTGGTTGAACAAGTTGGTACCCAACCTTTAATCGA
GCCATGCTTTTCAACGTTGGCTTTCAAGAGGCAATGAAAGACTTGGATTGGGACTGTTTGATTTTTCATG
ATGTAGATCACATACCGAAAGTGATCGCAACTATTATGGATGTGGACAGATGCCGAGGCATTTTGAAC
CAAATTTGGATAAGTATATGTATCTGCTTCTTATACCGAGTTCTTTGGCGGAGTGAGTGGCTTAACAGTG
GAACAATTTGGAAAATCAATGGCTTTCTTAATGCTTTCTGGGGTGGGGTGGAGAGATGACGACCTCT
GGAACAGAGTACAGAATGCAGGCTATTCTGTGAGCCGGCCAGAGGTGACACAGGAAAGTACAAGTCCAT
TCCTCATCACCATCGAGGAGAAGTCCAGTTTCTTGAAGGTATGCTCTGCTGAGGAAAGTAAAAGAACGG
CAAGGGCTGGATGGCCTCAACAACCTGAACTACTTTGCAAACATCACATACGACGCTTGTATAAAAAACA
TAACTGTCAACCTGACACCCGAGCTGGCTCAGGTGAACGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211225 representing NM_004776
 Red=Cloning site Green=Tags(s)

MRARRGLRLRRSLLAALFFFSLSSSLLYFVYVAPGIVNTYLFMMQAQGILIRDNVRTIGAQQVVEQVLR
 SAYAKRNSSVNSDYPLDLNHSETFLQTTTFLPEDFTYFANHTCPELPSMKGPIDINMSEIGMDYIHEL
 FSKDPTIKLGGHWKPSDCMPRWKVAAILIPFRNRHEHLPVLFRLHLLPMLQRQLQAFYVVEQVGTQPFNR
 AMLFNVGFQEAMKDLWDCLIFHDVDHIPESDRNYYGCGQMPRHFA TKLDKYMVLLPYTEFFGGVSLTV
 EQFRKINGFPNAFWGWGGEDDDLWNRVQNA GYSVSRPEGDTGKYKSI PHHHRGEVQFLGRYALLRKS
 KER QGLDGLNNLNYFANITYDALYKNITVNL TPELAQVNEY

TRTRPLE - GFP Tag - V

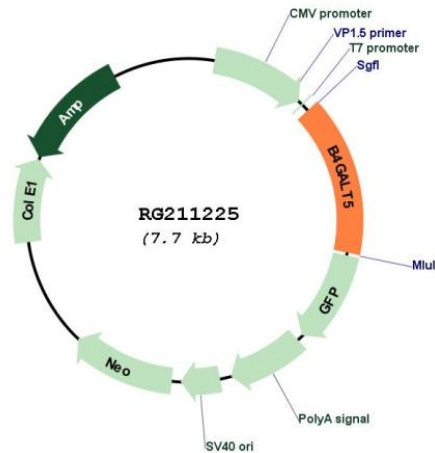
Restriction Sites:

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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">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_004776.4
RefSeq Size:	4646 bp
RefSeq ORF:	1167 bp
Locus ID:	9334
UniProt ID:	O43286
Cytogenetics:	20q13.13
Domains:	Galactosyl_T_2
Protein Families:	Transmembrane
Protein Pathways:	O-Glycan biosynthesis
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]