

## Product datasheet for **RC211225L4V**

### **B4GALT5 (NM\_004776) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	B4GALT5 (NM_004776) Human Tagged ORF Clone Lentiviral Particle
Symbol:	B4GALT5
Synonyms:	B4Gal-T5; BETA4-GALT-IV; beta4Gal-T5; beta4GalT-V; gt-V
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004776
ORF Size:	1164 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211225).
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. <a href="#">More info</a>
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:	<a href="#">NM_004776.2</a>
RefSeq Size:	4743 bp
RefSeq ORF:	1167 bp
Locus ID:	9334
UniProt ID:	<a href="#">O43286</a>
Cytogenetics:	20q13.13
Domains:	Galactosyl_T_2
Protein Families:	Transmembrane



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**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]