

## Product datasheet for RC208100L3

## OriGene Technologies, Inc.

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## B3GNT1 (B3GNT2) (NM 006577) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: B3GNT1 (B3GNT2) (NM\_006577) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: B3GNT1

Synonyms: 3-Gn-T1; 3-Gn-T2; B3GN-T2; B3GNT-2; B3GNT-1; beta-1; beta-1;

BETA3GNT; BGnT-2; BGNT2

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

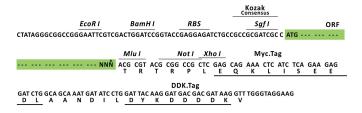
The ORF insert of this clone is exactly the same as(RC208100).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_006577 **ORF Size:** 1191 bp





## B3GNT1 (B3GNT2) (NM\_006577) Human Tagged Lenti ORF Clone - RC208100L3

**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:** 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:** <u>NM 006577.5</u>

 RefSeq Size:
 2788 bp

 RefSeq ORF:
 1194 bp

 Locus ID:
 10678

 UniProt ID:
 Q9NY97

 Cytogenetics:
 2p15

**Domains:** Galactosyl T

**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis,

Metabolic pathways

**MW**: 46 kDa

**Gene Summary:** This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This

enzyme is a type II transmembrane protein. It prefers the substrate of lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2016]