



**Protein Sequence:** >RC206965 protein sequence  
Red=Cloning site Green=Tags(s)

MRMLVSGRRVKKWQLIIQLFATCFCLASLMFFWEPIDNHIVSHMKSYSYRYLINSYDFVNDTSLKHTSAG  
 PRYQYLINHKEKCQAQDVLLLLFVKTAPENYDRRSGIRRTWGNENYVRSQLNANIKTLFALGTPNPLEGE  
 ELQRKLAWEDQRYNDIIQQDFVDSFYNLTKLLMQFSWANTYCPHAKFLMTADDDIFIHMPNLIEYLQSL  
 EQIGVQDFWIGRVHRGAPPIRDKSSKYVSYEMYQWPAYPDYTAGAAYVISGDVAAKVYEASQTLNSSLY  
 IDDVFMGLCANKIGIVPQDHVFFSGEGKTPYHPCIEKMMTSHGHLEDLQDLWKNATDPKVKTISKGFFG  
 QIYCRMKIILLCKISYVDTYPCRAAFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6518\\_g02.zip](https://cdn.origene.com/chromatograms/mk6518_g02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032047

**ORF Size:** 1134 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:**
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\\_032047.5](#)

**RefSeq Size:** 4131 bp

**RefSeq ORF:** 1137 bp

**Locus ID:** 84002

**UniProt ID:** [Q9BYG0](#)

**Cytogenetics:** 3q27.1

**Domains:** Galactosyl\_T

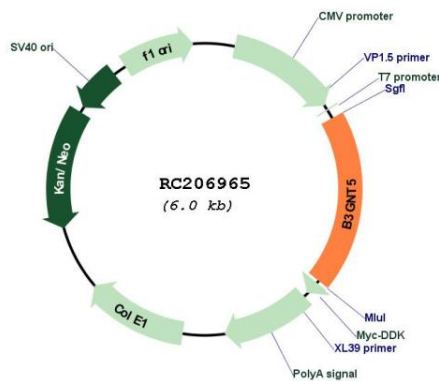
**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

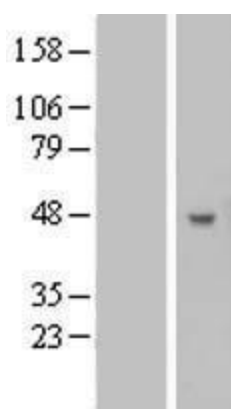
**MW:** 44.1 kDa

**Gene Summary:** This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosylceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC206965



Western blot validation of overexpression lysate (Cat# [LY410361]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206965 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).