

# Product datasheet for KN206965LP

### OriGene Technologies, Inc.

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## **B3GNT5** Human Gene Knockout Kit (CRISPR)

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: B3GNT5 Locus ID: 84002

**Components:** KN206965G1, B3GNT5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN206965G2, B3GNT5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

**KN206965LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

**Disclaimer:** These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

 RefSeq:
 NM 032047

 UniProt ID:
 Q9BYG0

**Synonyms:** B3GN-T5; beta3Gn-T5

**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.

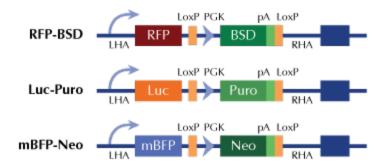
[provided by RefSeq, Jul 2008]





# **Product images:**

### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter