

# **Product datasheet for KN307154RB**

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## **Gpc1 Mouse Gene Knockout Kit (CRISPR)**

**Product data:** 

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

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

**Donor DNA:** RFP-BSD

Symbol: Gpc1

**Locus ID:** 14733

**Components:** KN307154G1, Gpc1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN307154G2**, Gpc1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN307154RBD, donor DNA containing left and right homologous arms and RFP-BSD

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:** <u>NM 016696</u>

 UniProt ID:
 Q9QZF2

 Synonyms:
 Al462976

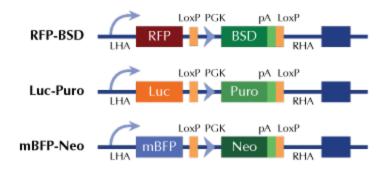
**Summary:** Cell surface proteoglycan that bears heparan sulfate. Binds, via the heparan sulfate side

chains, alpha-4 (V) collagen and participates in Schwann cell myelination (By similarity). May act as a catalyst in increasing the rate of conversion of prion protein PRPN(C) to PRNP(Sc) via associating (via the heparan sulfate side chains) with both forms of PRPN, targeting them to lipid rafts and facilitating their interaction. Required for proper skeletal muscle differentiation by sequestering FGF2 in lipid rafts preventing its binding to receptors (FGFRs) and inhibiting the FGF-mediated signaling. Binds Cu(2+) or Zn(2+) ions.[UniProtKB/Swiss-Prot Function]



# **Product images:**

### Donor Vector Edited Chromosome



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