

## Product datasheet for KN205911RB

## OriGene Technologies, Inc.

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### **Glypican 3 (GPC3) Human 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: Glypican 3

**Locus ID:** 2719

**Components: KN205911G1**, Glypican 3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN205911G2**, Glypican 3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205911RBD**, 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 001164617, NM 001164618, NM 001164619, NM 004484</u>

UniProt ID: <u>P51654</u>

Synonyms: DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1

**Summary:** Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein

core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing

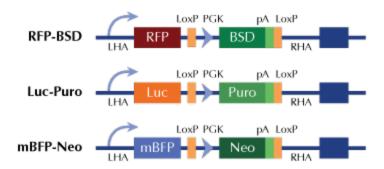
results in multiple transcript variants. [provided by RefSeq, Sep 2009]





# **Product images:**

### Donor Vector Edited Chromosome



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