

## **Product datasheet for KN212825BN**

## **LGR5 Human Gene Knockout Kit (CRISPR)**

**Product data:** 

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

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

Symbol: LGR5 Locus ID: 8549

**Components: KN212825G1**, LGR5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN212825G2**, LGR5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN212825BND, donor DNA containing left and right homologous arms and mBFP-Neo

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 001277226</u>, <u>NM 001277227</u>, <u>NM 003667</u>, <u>NR 110596</u>

UniProt ID: <u>075473</u>

Synonyms: FEX; GPR49; GPR67; GRP49; HG38

**Summary:** The protein encoded by this gene is a leucine-rich repeat-containing receptor (LGR) and

member of the G protein-coupled, 7-transmembrane receptor (GPCR) superfamily. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. This protein plays a role in the formation and maintenance of adult intestinal stem

cells during postembryonic development. Several transcript variants encoding different

isoforms have been found for this gene. [provided by RefSeq, Sep 2015]



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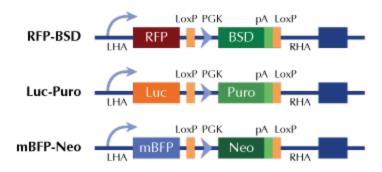
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## **Product images:**

## Donor Vector Edited Chromosome



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