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Product datasheet for KN212825

LGR5 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: LGR5

Locus ID: 8549

Components: **KN212825G1**, LGR5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGACAGGAGCACACCGAGC
KN212825G2, LGR5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTCAGCAACACACCAGACC
KN212825D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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GGGATCATGT AACTCGCCTT

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.

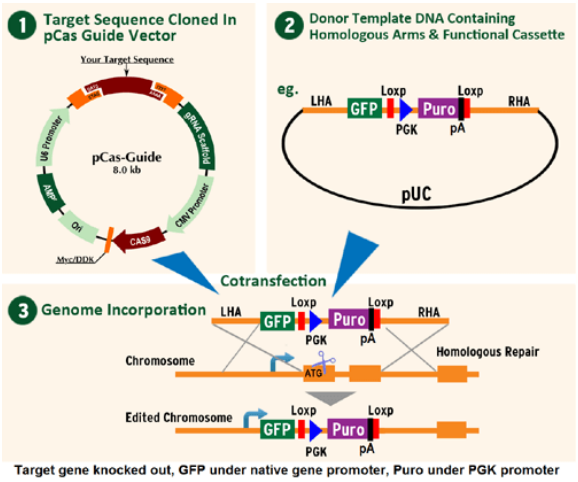
RefSeq: NM_001277226, NM_001277227, NM_003667, NR_110596

UniProt ID: O75473

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]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter