

Product datasheet for KN217296LP

OriGene Technologies, Inc.

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LPHN1 (ADGRL1) 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: LPHN1 Locus ID: 22859

Components: KN217296G1, LPHN1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN217296G2, LPHN1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN217296LPD, 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: <u>NM 001008701</u>, <u>NM 014921</u>

UniProt ID: <u>094910</u>

Synonyms: CIRL1; CL1; LEC2; LPHN1

Summary: This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors

(GPCR). Latrophilins may function in both cell adhesion and signal transduction. In

experiments with non-human species, endogenous proteolytic cleavage within a cysteine-rich GPS (G-protein-coupled-receptor proteolysis site) domain resulted in two subunits (a large extracellular N-terminal cell adhesion subunit and a subunit with substantial similarity to the secretin/calcitonin family of GPCRs) being non-covalently bound at the cell membrane. Latrophilin-1 has been shown to recruit the neurotoxin from black widow spider venom,

alpha-latrotoxin, to the synapse plasma membrane. Alternative splicing results in multiple

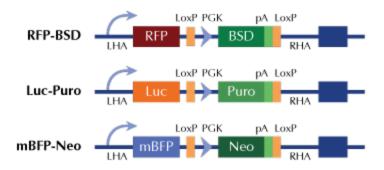
variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]





Product images:

Donor Vector Edited Chromosome



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