

## **Product datasheet for KN211214LP**

#### OriGene Technologies, Inc.

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## **PVRL1 (NECTIN1) 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: PVRL1 Locus ID: 5818

**Components:** KN211214G1, PVRL1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN211214G2**, PVRL1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211214LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

**GE100003**, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 002855, NM 032767, NM 203285, NM 203286</u>

UniProt ID: Q15223

Synonyms: CD111; CLPED1; ED4; HIgR; HV1S; HVEC; nectin-1; OFC7; PRR; PRR1; PVRL1; PVRR; PVRR1; SK-

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**Summary:** This gene encodes an adhesion protein that plays a role in the organization of adherens

junctions and tight junctions in epithelial and endothelial cells. The protein is a calcium(2+)-independent cell-cell adhesion molecule that belongs to the immunoglobulin superfamily and has 3 extracellular immunoglobulin-like loops, a single transmembrane domain (in some isoforms), and a cytoplasmic region. This protein acts as a receptor for glycoprotein D (gD) of herpes simplex viruses 1 and 2 (HSV-1, HSV-2), and pseudorabies virus (PRV) and mediates viral entry into epithelial and neuronal cells. Mutations in this gene cause cleft lip and palate/ectodermal dysplasia 1 syndrome (CLPED1) as well as non-syndromic cleft lip with or without cleft palate (CL/P). Alternative splicing results in multiple transcript variants encoding

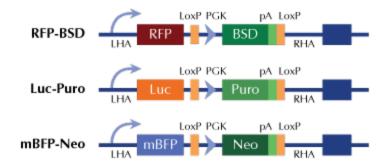
proteins with distinct C-termini. [provided by RefSeq, Oct 2009]





# **Product images:**

### Donor Vector Edited Chromosome



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