

Product datasheet for KN211214BN

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 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

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)

KN211214BND, 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 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

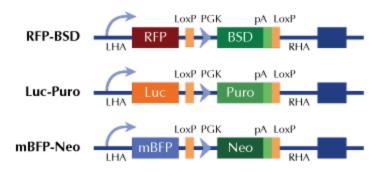
proteins with distinct C-termini. [provided by RefSeq, Oct 2009]





Product images:

Donor Vector Edited Chromosome



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