

Product datasheet for KN210364LP

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PD1 (PDCD1) 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: PD1 Locus ID: 5133

Components: KN210364G1, PD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN210364G2, PD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210364LPD, 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 005018</u> **UniProt ID:** Q15116

Synonyms: CD279; hPD-1; hPD-l; hSLE1; PD-1; PD1; SLEB2

Summary: Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in

activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity. [provided by RefSeq,

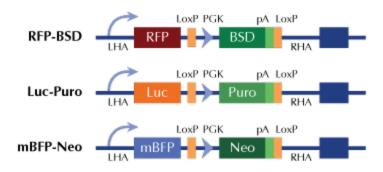
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Product images:

Donor Vector Edited Chromosome



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