

Product datasheet for KN210364RB

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OriGene Technologies, Inc.

PD1 (PDCD1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

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)

KN210364RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 005018</u>

UniProt ID: Q15116

Synonyms: CD279; hPD-1; hPD-1; 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,

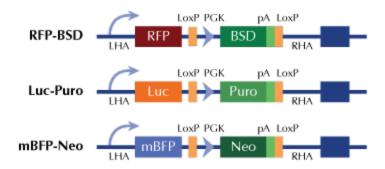
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Product images:

Donor Vector Edited Chromosome



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