

## Product datasheet for **KN210364RB**

### 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:	<b>KN210364G1</b> , PD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN210364G2</b> , PD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN210364RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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:** [NM\\_005018](#)

**UniProt ID:** [Q15116](#)

**Synonyms:** CD279; hPD-1; hPD-I; 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, Aug 2020]



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## Product images:

