

Product datasheet for **KN213071LP**

PD-L1 (CD274) 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:	PD-L1
Locus ID:	29126
Components:	<p>KN213071G1, PD-L1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTTTATATTCATGACCTAC</p> <p>KN213071G2, PD-L1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACCGTTTCAGCAAATGCCAGT</p> <p>KN213071LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>Homologous arm and Luciferase-Puro sequences: pUC vector backbone in gray; Left arm sequence in blue; Luciferase-Puro in green; Right arm in violet</p> <pre> AATCTGTTTA TTGAGAGAAT AGATTTATAA TTTAGAATAA GTGAGAGGGG CAGAAGAGGA GATTTTGAAG GATGGCACCT GAAGGAGGAC TAGCATGGCT GAGACAGTGA AGTGGAAGCC TTGAATAGCT AAAGGGTAAG ATGAAAGTAT TTAGCTGTAG GGGGAAAAG CATTGACAGG TTGGAAAAGT AAAAGTCAGA TTCTCCTTGC TCTGAAATTT TGTACAGGGC AGGTTCTACT AGGTATGTTA CAATGCAGAA AAAACATGAA ATAATTGAGA GGAATTTGGT GCAATATTAT CTCTTGGCT TCTTTTGAGT GGCAGATT TTTTCACGGC CTGTAACAT AATAAATTTG AAACCTTCTCA TCTTTTAGTA ACTTTTTTCA CTTAAGTTTA TGTGGCTGTG GGCAATGGAA TGAAGATATT GAACTTCAA TTCCTGTTG GGTTCCACA ATTACAAGTC AATCATGACT GGTTATTAGA AGACTATTC AGTTAGAACC ACCAAGTCCC ATATTGTCAT ATTGTATGTT TAATTATTAA GTGAAGCAGT CTTCTTTTCG TGTTTTCCAT AATTAGGGCA TTCCAGAAAG TGAGTTTAAA ACTAAAATGA TCATTTAAAA TGCATGCAAT TTTCTTATAG AGAGAACATT CTATTCTTTC TTCTACTTTA CACAATGGCA AAGTCTTCTT TCTACTTTAC GCAATGATAA AGTTACCTGT GTCATTTTGT AAAAATATAG AGAATATAGA CAAATTGAAA GACACAAAAT AATCTATTAC CCATTTCCA GGGTAACTA CTGAAAATAT CTGGGGAAT GGCCTGTATG TATACATTTA TTTGTTTGCT TTCAACAAG CCAAGATCCT TTGATCTTTC AGTCTTGTT GCTCTGTGAC ATGCCTTTCC TGATGAGGAT ACTTTAAGGA AGAATTGTAA GATACATGGA AAATGTCAGG CTAACACAGT ACTGGCATCA CCCTGTGCTC TTTCTGAAC TCCATACCAA TGTACTTCTT GCCAGAAAAC TGATCAAAAAG TTTAGGGAAG TAAAAGAGA TGACTGTTAG AATCTACCAT TCCCTCTATG TAGGAAGCAA ATAGGTGTCC TGTCAAAGGA CATTCTGGG ATGTCTACAT GAAACCAAGT CTCCCTGGTT GTAAGGACTC CATCTCCATA TAATATTTAT </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



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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_001267706](#), [NM_001314029](#), [NM_014143](#), [NR_052005](#)

UniProt ID: [Q9NZQ7](#)

Synonyms: B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1

Summary: This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:

