

Product datasheet for KN302893LP

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

PD-L1 (Cd274) Mouse 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: 60533

Components: KN302893G1, PD-L1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN302893G2, PD-L1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN302893LPD, 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:
 NM 021893

 UniProt ID:
 Q9EP73

Synonyms: A530045L16Rik; B7h1; Pdcd1l1; Pdcd1lg1; Pdl1

Summary: The protein encoded by this gene is 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

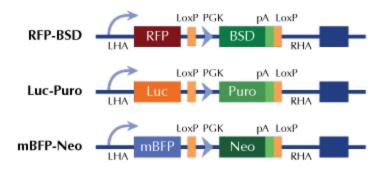
immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Mice deficient for this gene display a variety of phenotypes including decreased allogeneic fetal survival rates and severe experimental autoimmune encephalomyelitis. [provided by RefSeq, Sep 2015]





Product images:

Donor Vector Edited Chromosome



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