

Product datasheet for RC213071

PD-L1 (CD274) (NM_014143) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Tag: Myc-DDK Symbol: PD-I1 Synonyms: B7-H; B7H1; hPD-L1; PD-L1; PDCD1L1; PDCD1LG1; PDL1 Mammalian Cell Neomycin Selection: pCMV6-Entry (PS100001) Vector: E. coli Selection: Kanamycin (25 ug/mL) >RC213071 representing NM_014143 **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC **GCCGCGATCGCC**

ACGCGTACGCCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**

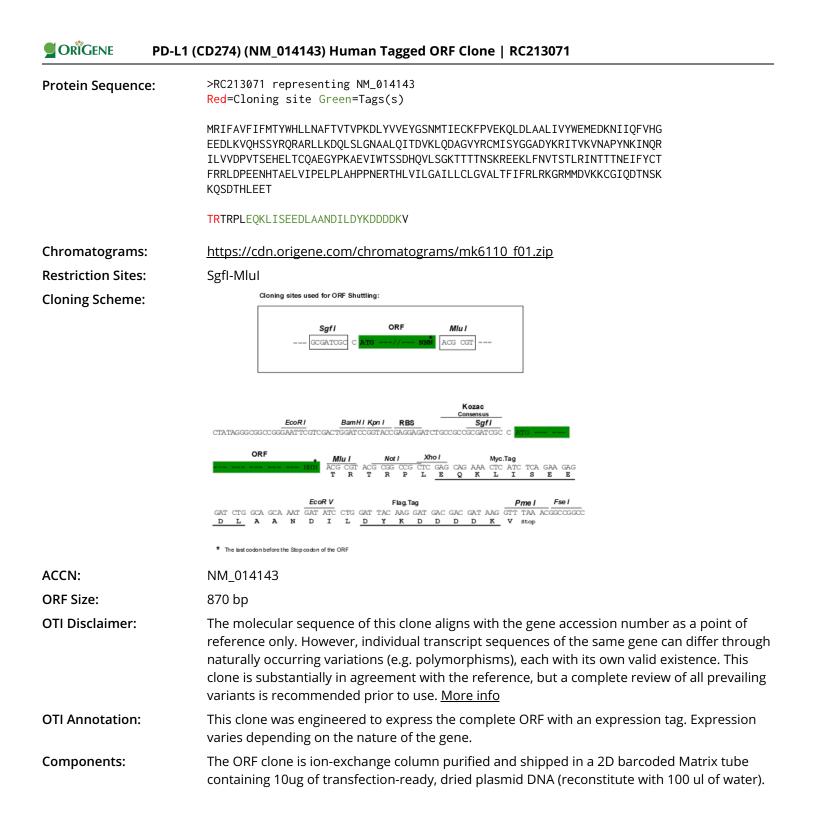


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OriGene Technologies, Inc.

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DRIGENE PD-L1 (CD274) (NM_014143) Human Tagged ORF Clone | RC213071

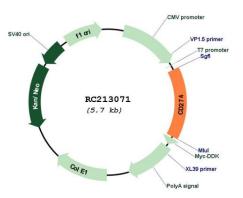
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 014143.4</u>
RefSeq Size:	1553 bp
RefSeq ORF:	873 bp
Locus ID:	29126
UniProt ID:	Q9NZQ7
Cytogenetics:	9p24.1
Domains:	ig, IG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	33.28 kDa
Gene 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]

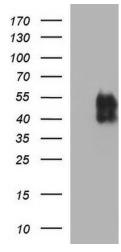
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Product images:

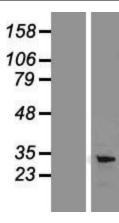


Circular map for RC213071



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD274 (Cat# RC213071, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD274(Cat# [TA507087]). Positive lysates [LY415473] (100ug) and [LC415473] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY415473]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213071 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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