

Product datasheet for **RC231972**

PD-L1 (CD274) (NM_001267706) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PD-L1 (CD274) (NM_001267706) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PD-L1
Synonyms: B7-H; B7H1; hPD-L1; PD-L1; PDCD1L1; PDCD1LG1; PDL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231972 representing NM_001267706
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTGCTGAACGCCCATACAACAAAATCA
ACCAAAGAATTTGGTTGGATCCAGTCACCTCTGAACATGAAGTACATGTCAGGCTGAGGGCTACCC
CAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCAATTCC
AAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAATAATGAGATTTTCT
ACTGCACCTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCATCCAGAACTACCTCT
GGCACATCCTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCA
CTGACATTCATCTCCGTTTAAGAAAAGGAGAATGATGGATGTGAAAAAATGTGGCATCCAAGATACAA
ACTCAAAGAAGCAAAGTGATACACATTTGGAGGAGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231972 representing NM_001267706
Red=Cloning site Green=Tags(s)

MRIFAVFIFMTYWHLNAPYKNINQRILVDPVTSEHELTCQAEYGPKEVIWTSDDHQVLSGKTTTTNS
KREEKLFNVTSTLRINTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPNERTHLVILGAILLCLGVA
LTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

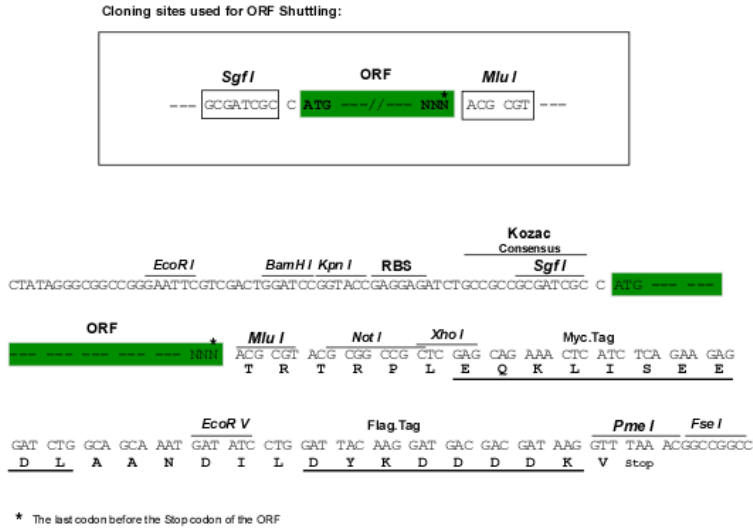
Chromatograms: https://cdn.origene.com/chromatograms/ja3650_e12.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001267706

ORF Size: 528 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. 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.

RefSeq: [NM_001267706.1](#), [NP_001254635.1](#)

RefSeq Size: 3349 bp

RefSeq ORF: 531 bp

Locus ID: 29126

UniProt ID: [Q9NZQ7](#)

Cytogenetics: 9p24.1

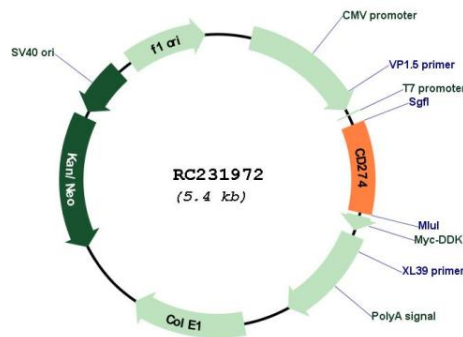
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

MW: 20.2 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]

Product images:



Circular map for RC231972