

Product datasheet for **RG213071**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	PD-L1 (CD274) (NM_014143) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PD-L1
Synonyms:	B7-H; B7H1; hPD-L1; PD-L1; PDCD1L1; PDCD1LG1; PDL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213071 representing NM_014143 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTGCTGAACGCATTTACTGTCACGGTTC
CCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAATCCCAGTAGAAAAACA
ATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGA
GAGGAAGACCTGAAGGTTGAGCAGTACAGTACAGACAGAGGGCCGGCTGTTGAAGGACCAGCTCTCCC
TGGGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGATCAG
CTATGGTGGTCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCATACAACAAAATCAACCAAGA
ATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGTGAGGCTGAGGGCTACCCCAAGGCCG
AAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCAATTCGAAGAGAGA
GGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTTCTACTGCACT
TTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCATCCCAGAATACCTCTGGCACATC
CTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACTGACATT
CATCTCCGTTTAAGAAAAGGGAGAATGATGGATGTGAAAAATGTGGCATCCAAGATACAACTCAAAG
AAGCAAAGTGATACACATTTGGAGGAGACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213071 representing NM_014143
 Red=Cloning site Green=Tags(s)

MRIFAVFIFMTYWHLNAFTVTVPKDLVYVEYGSNMTIECKFPVEKQLDLAALIVWEMEDKNIIQFVHG
 EEDLKVQHSSYRQRARLLKQQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQR
 ILVVDPVTSEHELTCQAEGYPKAEVIWTSDDHQVLSGKTTTNSKREEKLFNVTSTLRINTTTNEIFYCT
 FRRLDPEENHTAELVIPELPLAHPNERTHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSK
 KQSDTHLEET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014143

ORF Size: 870 bp

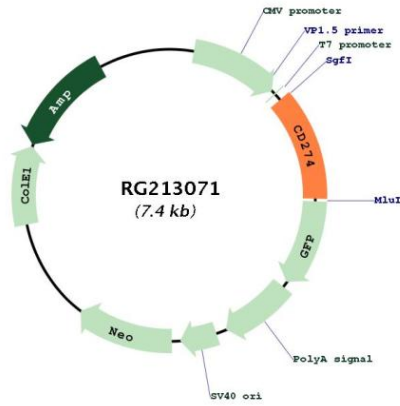
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_014143.4
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)
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG213071