

Product datasheet for **MR203953**

PD-L1 (Cd274) (NM_021893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PD-L1 (Cd274) (NM_021893) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PD-L1
Synonyms:	A530045L16Rik; B7h1; PD-; Pdcd1l; Pdcd1l1; Pdcd1lg1; Pdl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203953 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGATATTTGCTGGCATTATATTCACAGCCTGCTGTCACTTGCTACGGGCGTTTACTATCACGGCTC
 CAAAGGACTTGACGTGGTGGAGTATGGCAGCAACGTCACGATGGAGTGCAGATTCCTGTAGAACGGGA
 GCTGGACCTGCTTGCCTTAGTGGTGTACTGGGAAAGGAAGATGAGCAAGTGATTGAGTTTGTGGCAGGA
 GAGGAGGACCTTAAGCCTCAGCACAGCAACTTCAGGGGGAGAGCCTCGCTGCCAAAGGACCAGCTTTTGA
 AGGGAAATGCTGCCCTTCAGATCACAGACGTCAAGCTGCAGGACGCAGGCGTTTACTGCTGCATAATCAG
 CTACGGTGGTGGGACTACAAGCGAATCAGCTGAAAGTCAATGCCCCATACCGCAAAATCAACCAGAGA
 ATTTCCGTGGATCCAGCCACTTCTGAGCATGAACTAATATGTCAGGCCGAGGGTTATCCAGAAGCTGAGG
 TAATCTGGACAAACAGTGACCACCAACCCGTGAGTGGGAAGAGAAGTGTCACCACTTCCCGGACAGAGGG
 GATGCTTCTCAATGTGACCAGCAGTCTGAGGGTCAACGCCACAGCGAATGATGTTTTCTACTGTACGTTT
 TGGAGATCACAGCCAGGGCAAAACACACAGCGGAGCTGATCATCCAGAAGTGCCTGCAACACATCCTC
 CACAGAACAGGACTCACTGGGTGCTTCTGGGATCCATCCTGTTGTTCTCATTGTAGTGTCCACGGTCCT
 CCTCTTCTTGAGAAAACAAGTGAGAAATGCTAGATGTGGAGAAATGTGGCGTTGAAGATACAAGCTCAAAA
 AACCGAAATGATACACAATTCGAGGAGACG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR203953 protein sequence
 Red=Cloning site Green=Tags(s)

MRIFAGIIFTACCHLLRAFTITAPKDLVVEYGSNVTMECRFPVERELDLLALVYWEKEDEQVIQFVAG
 EEDLK PQHSNFRGRASLPKDQLLKGNALQITDVKLQDAGVYCCII SYGGADYKRITLKV NAPYRKINQR
 ISVDPATSEHELICQAEGYPEAEVIWTNSDHQP VSGKRSVTT SRTEGMLLNVTSSLRVNATANDVFYCTF
 WRSQPGQNHTAELIIELPATHPPQN RTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSK
 NRNDTQFEET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021893

ORF Size: 870 bp

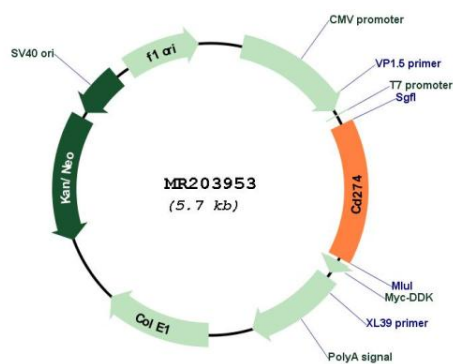
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_021893.3, NP_068693.1</u>
RefSeq Size:	3653 bp
RefSeq ORF:	873 bp
Locus ID:	60533
UniProt ID:	<u>Q9EP73</u>
Cytogenetics:	19 C1
MW:	32.8 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR203953