

Product datasheet for **MG203953**

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:	TurboGFP
Symbol:	PD-L1
Synonyms:	A530045L16Rik; B7h1; PD-; Pdcd1l; Pdcd1l1; Pdcd1lg1; Pdl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203953 representing NM_021893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATATTTGCTGGCATTATATTCACAGCCTGCTGTCACTTGTACGGCGTTTACTATCACGGCTC
CAAAGGACTTGTACGTGGTGGAGTATGGCAGCAACGTACGATGGAGTGCAGATTCCTGTAGAACGGGA
GCTGGACCTGCTTGCCTTAGTGGTGTACTGGGAAAAGGAAGATGAGCAAGTGATTCAGTTTGTGGCAGGA
GAGGAGGACCTTAAGCCTCAGCACAGCAACTTCAGGGGGAGAGCCTCGCTGCCAAAGGACCAGCTTTTGA
AGGGAAATGCTGCCCTTCAGATCACAGACGTCAAGCTGCAGGACGCAGGGCTTACTGCTGCATAATCAG
CTACGGTGGTGGGACTACAAGCGAATCAGCTGAAAGTCAATGCCCATACCGCAAATCAACCAGAGA
ATTTCCGTGGATCCAGCCACTTCTGAGCATGAACTAATATGTCAGGCCGAGGGTTATCCAGAAGCTGAGG
TAATCTGGACAAACAGTGACCACCAACCCGTGAGTGGGAAGAGAAGTGTCAACCTTCCCGGACAGAGGG
GATGCTTCTCAATGTGACCAGCAGTCTGAGGGTCAACGCCACAGCGAATGATGTTTTCTACTGTACGTTT
TGGAGATCACAGCCAGGGCAAACACACAGCGGAGCTGATCATCCAGAAGTGCCTGCAACACATCCTC
CACAGAACAGGACTCACTGGGTGCTTCTGGGATCCATCCTGTTGTTCTCATTGTAGTGTCCACGGTCTC
CCTCTTCTTGAGAAAACAAGTGAGAAATGCTAGATGTGGAGAAATGTGGCGTTGAAGATACAAGCTCAAAA
AACCGAAATGATACACAATTCGAGGAGACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203953 representing NM_021893
 Red=Cloning site Green=Tags(s)

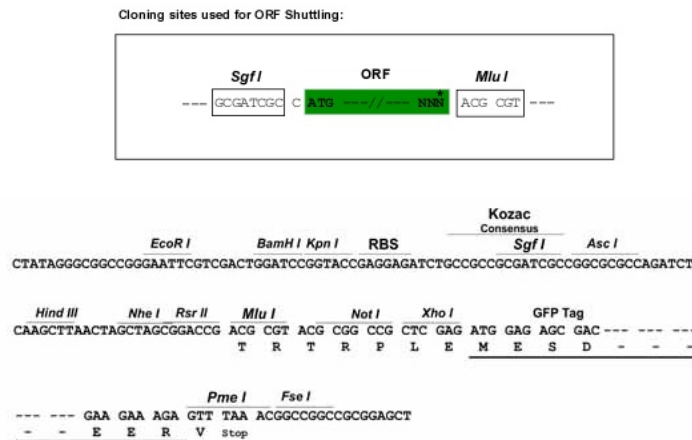
MRIFAGIIFTACCHLLRAFTITAPKDLVYVEYGSNVTMECRFPVERELDLLALVYWEKEDEQVIQFVAG
 EEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCII SYGGADYKRITLKVNPYRKINQR
 ISVDPATSEHELICQAEGYPEAEVIWTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTF
 WRSQPQGNHTAELIPELPPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSK
 NRNDTQFEET

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1694_a11.zip

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:

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_021893.3](#), [NP_068693.1](#)

RefSeq Size: 3697 bp

RefSeq ORF: 873 bp

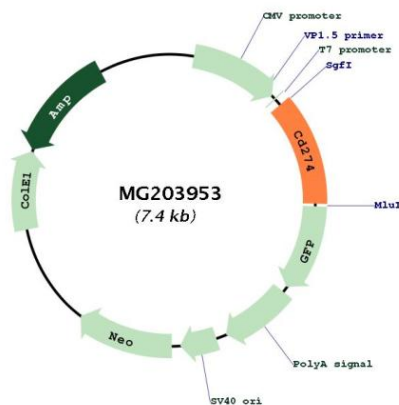
Locus ID: 60533

UniProt ID: [Q9EP73](#)

Cytogenetics: 19 C1

Gene 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:



Circular map for MG203953