

Product datasheet for **MG222499**

Pdcd1lg2 (NM_021396) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pdcd1lg2 (NM_021396) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pdcd1lg2
Synonyms: B7-DC; Btdc; F730015O22Rik; PD-L2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222499 representing NM_021396
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTCCTGCTGCCGATACTGAACCTGAGCTTACAACCTTCATCCTGTAGCAGCTTTATTCACCGTGA
CAGCCCCAAAGAAGTGTACACCGTAGACGTCGGCAGCAGTGTGAGCCTGGAGTGCGATTTTGACCCGAG
AGAATGCACTGAAGGATAAGAGCCAGTTTGCAGAAGGTAGAAAATGATACGTCTCTGCAAAGT
GAAAGAGCCACCCTGCTGGAGGAGCAGCTGCCCTGGGAAAGGCTTTGTCCACATCCCTAGTGTCCAAG
TGAGAGATTCGGGCAGTACCGTTGCCTGGTCATCTGCGGGCCGCTGGGACTACAAGTACCTGACCGT
GAAAGTCAAAGCTTCTTACATGAGGATAGACACTAGGATCCTGGAGGTTCCAGGTACAGGGGAGGTGCAG
CTTACCTGCCAGGCTAGAGGTTATCCCCTAGCAGAAGTGTCTGGCAAAATGTCAGTGTCTGCCAACA
CCAGCCACATCAGGACCCCGAAGGCCTCTACCAGGTCACCAGTGTCTGCGCCTCAAGCCTCAGCCTAG
CAGAACTTCAGCTGCATGTTCTGGAAATGCTCACATGAAGGAGCTGACTTCAGCCATCATTGACCCCTCTG
AGTCGGATGGAACCCAAAGTCCCAGAACGTGGCCACTTCATGTTTTTCATCCCGCCTGCACCATCGCTT
TGATCTTCTGGCCATAGTGATAATCCAGAGAAAGAGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222499 representing NM_021396
Red=Cloning site Green=Tags(s)

MLLLLPIILNLSLQLHPVAALFTVTAPKEVYTVDVGSSVSLECDFDRRECTELEGRASLQKVENDTSLQS
 ERATLLEEQLPLGKALFHIPSVQVRDSGQYRCLVICGAAWDYKYLTVKVKASYMRIDTRILEVPGTGEVQ
 LTCQARGYPLAEVSWQNVSV PANTSHIRTPEGLYQVTSVLRRLKPQPSRNFSCMFVNAHMKELTS AIDPL
 SRMEPKVPRTWPLHVFIPACTIALIFLAIVIIQRKRI

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3507_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021396

ORF Size: 741 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_021396.2](#), [NP_067371.1](#)

RefSeq Size: 3415 bp

RefSeq ORF: 744 bp

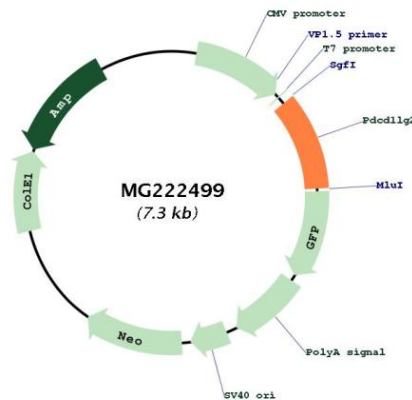
Locus ID: 58205

UniProt ID: [Q9WUL5](#)

Cytogenetics: 19 C1

Gene Summary: Involved in the costimulatory signal essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222499