

Product datasheet for **MG216227**

Pdcd4 (NM_001168492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdcd4 (NM_001168492) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdcd4
Synonyms:	D19Ucla1; Ma3; Tis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216227 representing NM_001168492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATATAGAAAATGAGCAGACACTGAATGTGAACCCCACTGACCCTGACAATTTAAGCGACTCTCTCT
 TTTCTGGAGATGAAGAAAATGCTGGCACTGAAGAAATAAAGAATGAAATAAATGGAAATTGGATTTCCGC
 ATCTACTATTAATGAAGCTAGAATCAATGCAAAAAGCCAAAAGACGACTGCGGAAAAATTCATCCCGGGAC
 TCTGGCCGAGGAGACTCAGTCAGTGACAATGGAAGTGAAGCGGTTAGAAGTGGAGTTGCTGTGCCACCA
 GTCCAAAAGGAAGGTTGCTAGTAGAGCGGTCCAGATCTGGGAAAGGAAGGGGGCTGCCAAAAGAAAGGTGG
 TGCAGGCGCAAGGGTGTCTGGGCGACACCTGGACAGGTGTATGATGTGGAAGAGGTGGATGTGAAAGAT
 CCAAATATGATGACGACCAGGAGAATGTGTTTATGAACTGTAGTTTGGCCCTGGATGAGACCGCAT
 TTGAGAAGACTCTAACACCAATTATACAGGAATACTTTGAGCATGGAGATACAAATGAAGTTGCGGAGAT
 GTTAAGAGACTTAAACCTTGGGGAGATGAAGAGTGGCGTCCCGGTTGGCAGTGCCTTAGCCTTGGAG
 GGAAGGCCACGCCACCGGAGATGACATCCAAGCTGCTTTCTGACCTTTCGCGGGACGGTGTGAGACAA
 ATGACGTGAAAAAGTCATTTGACAAGTTGCTGAAGGATCTCCCTGAGCTAGCCTTGGACACTCCTAGGGC
 ACCGCAGTTGGTGGGCCAGTTTATTGCTAGAGCTGTTGGAGATGGAATCTTATGTAATACCTATATCGAT
 AGTTACAAAGGAAGTGTAGATTGTGACAGGCTCGAGCTGCTCTGGATAAGGCTACTGTGCTCCTGAGTA
 TGTCCAAAGGCGGGAAGCGGAAAGACAGTGTGTGGGATCTGGAGGCGGGCAACAGCCTGTCAATCACCT
 TGTTAAAGAGATTGATATGCTGCTTAAAGAGTATTTACTCTCTGGAGATATATCTGAAGCTGAACACTGC
 CTAAGGAAGTGAAGTACCTCATTTCACCACGAGCTGTATATGAAGCCATTGTAATGGTTTTAGAGT
 CACTGGAGAAAAGTGCATTCAAGATGATCTTAGATTTATTAATAAATCCTTGTGGAAGTCTTCTACTATTAC
 CATAGACCAAATGAAAAGAGGCTATGAGAGAATTTACAATGAAATCCCAGACATTAATCTGGATGTCCCA
 CACTCATACTCTGTTCTTGGAGATTTGTGGAGGAATGTTTTAGGCTGGAATAATTTCCAAAACACTCC
 GTGATCTTTGTCATCAAGGGGAAGAAAGCGTTTTGTAAGTGAAGGAGATGGAGGCCGCTTAAACCTGA
 GAGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216227 representing NM_001168492
 Red=Cloning site Green=Tags(s)

MDIENEQTLNVNPTDPDNLSDSLFSGDEENAGTEEIKNEINGNWISASTINEARINAKAKRRLRNSSRD
 SGRGDSVSDNGSEAVRSGVAVPTSPKGRLLDRRSRSGKGRGLPKKGGAGGKGVWGTGQVYDVEEDVKD
 PNYDDDQENCYETVVLPLDETAFEKTLTPIIQEYFEHGDNEVAEMLRDLNLGEMKSGVPVLAVSLALE
 GKASHREMTSKLLSDLCGTVMSTNDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYID
 SYKGTVDCVQARAALDKATVLLSMSKGGKRKDSVWGSQGGQPVNHLVKEIDMLLKEYLLSGDISEAEHC
 LKELEVPHFHHELVEAIVMVLESTGESAFKMILDLLKSLWKSSTITIDQMKRGYERIYNEIPDINLDVP
 HSYSVLRFVVEECFQAGIISKQLRDLCPGRKRKFVSEGDGGRPKPESY

TRTRPLE - GFP Tag - V

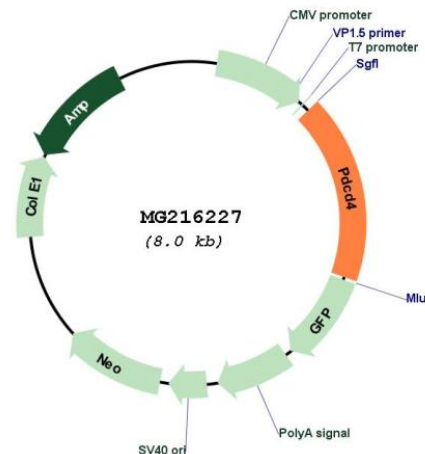
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001168492

ORF Size: 1407 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_001168492.1](#), [NP_001161964.1](#)

RefSeq Size: 1806 bp

RefSeq ORF: 1410 bp

Locus ID: 18569

UniProt ID: [Q61823](#)

Cytogenetics: 19 48.73 cM

Gene Summary: Inhibits translation initiation and cap-dependent translation. May exert its function by hindering the interaction between EIF4A1 and EIF4G. Inhibits the helicase activity of EIF4A. Modulates the activation of JUN kinase. Down-regulates the expression of MAP4K1, thus inhibiting events important in driving invasion, namely, MAPK85 activation and consequent JUN-dependent transcription. May play a role in apoptosis. Tumor suppressor. Inhibits tumor promoter-induced neoplastic transformation. Binds RNA.[UniProtKB/Swiss-Prot Function]