

Product datasheet for **RG222260**

PDCD4 (NM_145341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDCD4 (NM_145341) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDCD4
Synonyms:	H731
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222260 representing NM_145341
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAATATCCTGATAACTTAAGTACTCTCTCTTTCCGGTGATGAAGAAAATGCTGGGACTGAGG
 AAGTAAAGAATGAAATAAATGGAATTGGATTTACGCATCCTCCATTAACGAAGCTAGAATTAATGCCAA
 GGCAAAAAGCGACTAAGGAAAACTATCCCGGACTCTGGCAGAGCGGATTCCGGTCAGCGACAGTGGG
 AGTGACGCCCTTAGAAGTGGATTAAGTGTGCCAACAGTCCAAGGGAAGGTTGCTGGATAGGCGATCCA
 GATCTGGGAAAGGAGGGGACTACCAAAGAAAGGTGGTGCAGGAGGCAAAGGTGTCTGGGTACACCTGG
 ACAGGTGTATGATGTGGAGGAGGTGGATGTAAAGATCCTAACTATGATGATGACCAGGAGAAGTGTGT
 TATGAACTGTAGTTTTGCCTTTGGATGAAAGGCGATTTGAGAAGACTTTAACCCAATCATACAGGAAT
 ATTTTGAGCATGGAGATACTAATGAAGTTCGGAAATGTTAAGAGATTTAAATCTTGGTGAATGAAAAG
 TGGAGTACCAGTGTGGCAGTATCCTTAGCATTGGAGGGGAAGGCTAGTCATAGAGAGATGACATCTAAG
 CTCTTTCTGACCTTTGTGGGACAGTAATGAGCACAACCTGATGTGAAAAATCATTGATAAATTGTTGA
 AAGATCTACCTGAATTAGCACTGGATACTCTAGAGCACCACAGTTGGTGGGCCAGTTTATTGCTAGAGC
 TGTGGAGATGGAATTTATGTAATACCTATATTGATAGTTACAAAGGAACTGTAGATTGTGTGCAGGCT
 AGAGCTGCTCTGGATAAGGCTACCGTGCTTCTGAGTATGTCTAAAGGTGGAAAGCGTAAAGATAGTGTGT
 GGGGCTCTGGAGGTGGCAGCAATCTGTCAATCACCTGTAAAGAGATTGATATGCTGCTGAAAGAATA
 TTTACTCTCTGGAGACATATCTGAAGCTGAACATTGCCTTAAGGAACTGGAAGTACCTCATTTCACCAT
 GAGCTTGATATGAAGCTATTATAATGGTTTTAGAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGG
 ATTTATTAAGTCCCTTTGGAAGTCTTCTACCATTACTGTAGACCAAAATGAAAAGAGGTTATGAGAGAAT
 TTACAATGAAAATCCGGACATTAATCTGGATGTCCACATTCATACTCTGTGCTGGAGCGGTTTGTAGAA
 GAATGTTTTAGGCTGGAATAATTTCAAACAACCTCAGAGATCTTTGTCCTTCAAGGGGCAGAAAGCGTT
 TTGTAAGCGAAGGAGATGGAGGTCGTCTTAAACCAGAGAGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222260 representing NM_145341
 Red=Cloning site Green=Tags(s)

MTKYPDNLSDSLFSGDEENAGTEEVKNEINGNWSASSINEARINAKAKRRLRNSSRDSGRGDSVSDSG
 SDALRSLTVPTSPKGRLLDRRSRSGKGRGLPKKGGAGGKGVWGTGQVYDVEVDVKDPNYDDDQENCV
 YETVVLPLDERAFEKLTPIIQEYFEHGDNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSK
 LLSDLCGTVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDCVQA
 RAALDKATVLLSMSKGGKRKDSVWGSQGGQSVNHLVKEIDMLLKEYLLSGDISEAEHCLKELEVPFH
 ELVYEAIMVLESTGESTFKMILDLLKSLWKSSTITVDQMKRGYERYNEIPDINLDVPHYSVLERFVE
 ECFQAGIISKQLRDLCP SRGRKRFVSEGDGGRLLKPESY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_145341

ORF Size: 1374 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

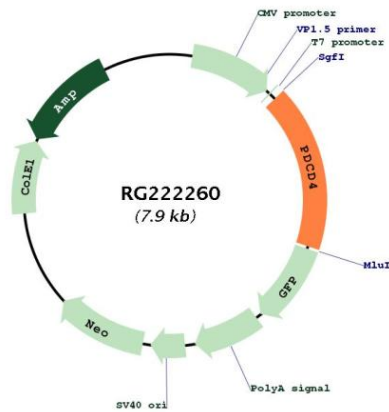
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_145341.2](#), [NP_663314.1](#)

RefSeq Size: 3675 bp
 RefSeq ORF: 1377 bp
 Locus ID: 27250
 UniProt ID: [Q53EL6](#)
 Cytogenetics: 10q25.2
 Domains: MA3
 Protein Families: Druggable Genome
 Gene Summary: This gene is a tumor suppressor and encodes a protein that binds to the eukaryotic translation initiation factor 4A1 and inhibits its function by preventing RNA binding. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG222260