OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205095

PDCD10 (NM_145860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDCD10 (NM_145860) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDCD10
Synonyms:	CCM3; TFAR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205095 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGATGACAATGGAAGAGATGAAGAATGAAGCTGAGACCACATCCATGGTTTCTATGCCCCTCTATG
CAGTCATGTATCCTGTGTTTAATGAGCTAGAACGAGTAAATCTGTCTGCAGCCCAGACACTGAGAGCCGC
TTTCATCAAGGCTGAAAAAGAAAATCCAGGTCTCACACAAGACATCATTATGAAAATTTTAGAGAAAAAA
AGCGTGGAAGTTAACTTCACGGAGTCCCTTCTTCGTATGGCAGCTGATGATGTAGAAGAGTATATGATTG
AACGACCAGAGCCAGAATTCCAAGACCTAAACGAAAAGGCACGAGCACTTAAACAAATTCTCAGTAAGAT
CCCAGATGAGATCAATGACAGAGTGAGGTTTCTGCAGACAATCAAGGATATAGCTAGTGCAATAAAAGAA
CTTCTTGATACAGTGAATAATGTCTTCAAGAAATATCAATACCAGAACCGCAGGGCACTTGAACACCAAA
AGAAAGAATTTGTAAAGTACTCCAAAAGTTTCAGTGATACTCTGAAAACGTATTTTAAAGATGGCAAGGC
AATAAATGTGTTCGTAAGTGCCAACCGACTAATTCATCAAACCAACTTAATACTTCAGACCTTCAAAACT
GTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC205095 protein sequence
Red=Cloning site Green=Tags(s)

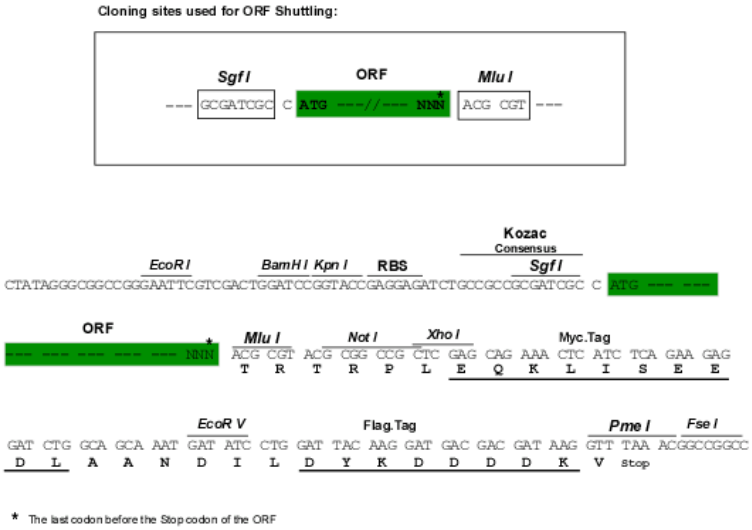
MRMTMEEMKNEAETTSMVSMPLYAVMYPVFNELERVNLSAAQTLRAAFIKAEKENPGLTQDIIMKILEKK
SVEVNFTESLLRMAADDVEEYMIERPEPEFQDLNEKARALKQILSKIPDEINDRVRFLQTIKDIASAIKE
LLDTVNNVFKKYQYQNRRALEHQKKEFVKYSKSFSDTLKTYFKDGKAINVFVSANRLIHQTNLILQTFKT
VA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6268_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145860

ORF Size: 636 bp

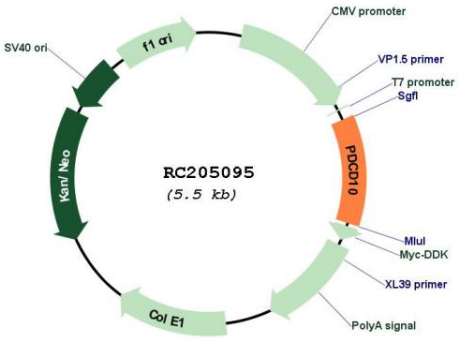
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

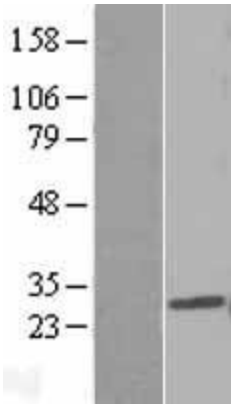
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_145860.1, NP_665859.1
RefSeq Size:	1212 bp
RefSeq ORF:	639 bp
Locus ID:	11235
UniProt ID:	Q9BUL8
Cytogenetics:	3q26.1
Protein Families:	Druggable Genome
MW:	24.7 kDa
Gene Summary:	This gene encodes an evolutionarily conserved protein associated with cell apoptosis. The protein interacts with the serine/threonine protein kinase MST4 to modulate the extracellular signal-regulated kinase (ERK) pathway. It also interacts with and is phosphoryated by serine/threonine kinase 25, and is thought to function in a signaling pathway essential for vascular developent. Mutations in this gene are one cause of cerebral cavernous malformations, which are vascular malformations that cause seizures and cerebral hemorrhages. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC205095



Western blot validation of overexpression lysate (Cat# [LY407854]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221815] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).