

Product datasheet for **RC221815**

PDCD10 (NM_145859) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDCD10 (NM_145859) 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: >RC221815 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATGACAATGGAAGAGATGAAGAATGAAGCTGAGACCACATCCATGGTTTCTATGCCCTCTATG
CAGTCATGTATCCTGTGTTAATGAGCTAGAACGAGTAAATCTGTCTGCAGCCAGACACTGAGAGCCGC
TTTCATCAAGGCTGAAAAGAAAATCCAGGTCTCACACAAGACATCATTATGAAAATTTAGAGAAAAA
AGCGTGGAAGTTAACTTCACGGAGTCCCTTCTTCGTATGGCAGCTGATGATGTAGAAGAGTATATGATTG
AACGACCAGAGCCAGAATCCAAGACCTAAACGAAAAGGCACGAGCACTTAAACAAATTCAGTAAGAT
CCCAGATGAGATCAATGACAGAGTGAGGTTTCTGCAGACAATCAAGGATATAGCTAGTGAATAAAAGAA
CTTCTTGATACAGTGAATAATGTCTTCAAGAAATATCAATACCAGAACCGCAGGGCACTTGAACACCAAA
AGAAAAGATTTGTAAAGTACTCCAAAAGTTTCAGTGATACTCTGAAAACGTATTTTAAAGATGGCAAGGC
AATAAATGTGTTTCGTAAGTGCCAACCGACTAATTCATCAAACCACTTAATACTTCAGACCTTCAAACCT
GTGGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221815 protein sequence
Red=Cloning site Green=Tags(s)

MRMTMEEMKNEAETTSMSVSMPLYAVMYPVFNELERVNLSAAQTLRAAFIKAOKENPGLTQDIIMKILEKK
 SVEVNFTESSLRMAADDDVEEYMIERPEPEFQDLNEKARALKQILSKIPDEINDRVRFLQTIKDIASAIKE
 LLDTVNNVFKKYQYQNRRALEHQKKEFVKYSKSFSDTLKTYFKDGKAINVFSANRLIHQTNLILQTFKT
 VA

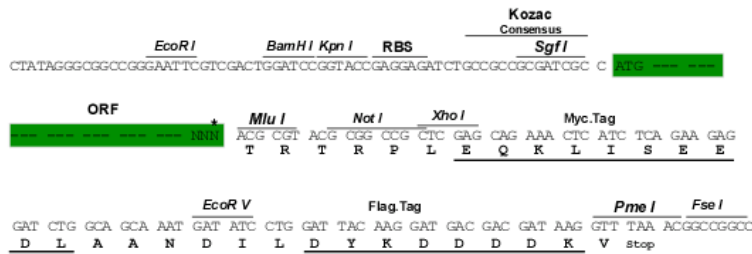
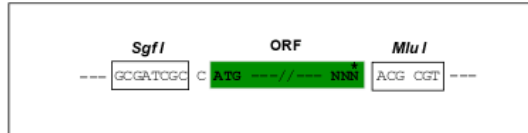
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145859

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_145859.1](#), [NP_665858.1](#)

RefSeq Size: 1313 bp

RefSeq ORF: 639 bp

Locus ID: 11235

UniProt ID: [Q9BUL8](#)

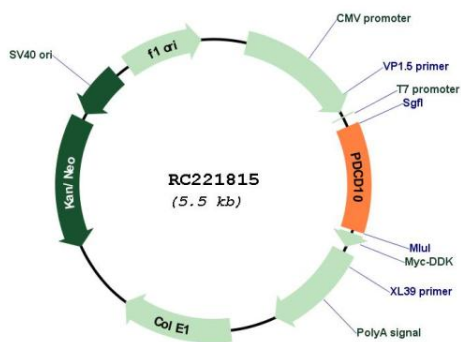
Cytogenetics: 3q26.1

Protein Families: Druggable Genome

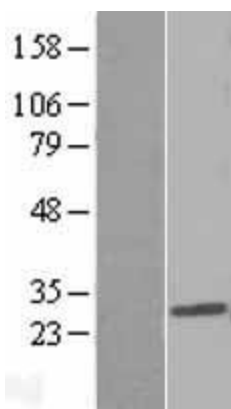
MW: 24.7 kDa

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 phosphorylated by serine/threonine kinase 25, and is thought to function in a signaling pathway essential for vascular development. 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 RC221815



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