

## Product datasheet for **RG221815**

### **PDCD10 (NM\_145859) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDCD10 (NM_145859) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDCD10
Synonyms:	CCM3; TFAR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221815 representing NM_145859 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGATGACAATGGAAGAGATGAAGAATGAAGCTGAGACCACATCCATGGTTTCTATGCCCTCTATG  
CAGTCATGTATCCTGTGTTAATGAGCTAGAACGAGTAAATCTGTCTGCAGCCAGACACTGAGAGCCGC  
TTTCATCAAGGCTGAAAAGAAAATCCAGGTCTCACACAAGACATCATTATGAAAATTTAGAGAAAAA  
AGCGTGGAAGTAACTTCACGGAGTCCCTTCTTCGTATGGCAGCTGATGATGTAGAAGAGTATATGATTG  
AACGACCAGAGCCAGAATCCAAGACCTAAACGAAAAGGCACGAGCACTTAAACAATTCCTCAGTAAGAT  
CCCAGATGAGATCAATGACAGAGTGAGGTTTCTGCAGACAATCAAGGATATAGCTAGTGAATAAAAGAA  
CTTCTTGATACAGTGAATAATGTCTTCAAGAAATATCAATACCAGAACCGCAGGGCACTTGAACACCAAA  
AGAAAAGATTTGTAAAGTACTCCAAAAGTTTCAGTGATACTCTGAAAACGTATTTTAAAGATGGCAAGGC  
AATAAATGTGTTTCGTAAGTGCCAACCGACTAATTCATCAAACCACTTAATACTTCAGACCTTCAAAACT  
GTGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG221815 representing NM\_145859  
Red=Cloning site Green=Tags(s)

MRMTMEEMKNEAETTSMVSMPLYAVMYPVFNELERVNLSAAQTLRAAFIKAOKENPGLTQDIIMKILEKK  
 SVEVNFTESSLRMAADDVEEYMIERPEPEFQDLNEKARALKQILSKIPDEINDRVRFLQTIKDIASAIKE  
 LLDTVNNVFKKYQYQNRRALEHQKKEFVKYSKSFSDTLKTYFKDGKAINVFSANRLIHQTNLILQTFKT  
 VA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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.

**RefSeq:** [NM\\_145859.1](#), [NP\\_665858.1](#)

**RefSeq Size:** 1313 bp

**RefSeq ORF:** 639 bp

**Locus ID:** 11235

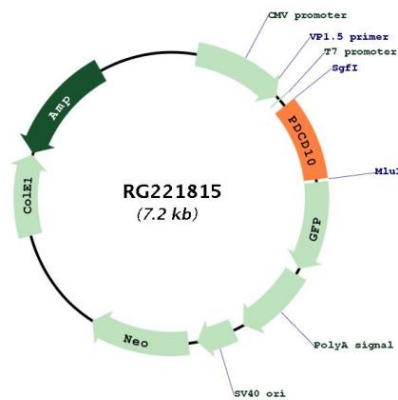
**UniProt ID:** [Q9BUL8](#)

**Cytogenetics:** 3q26.1

**Protein Families:** Druggable Genome

**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 RG221815