

## Product datasheet for **RC232047**

### **PDCD6 (NM\_001267556) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDCD6 (NM\_001267556) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PDCD6  
**Synonyms:** ALG-2; ALG2; PEF1B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232047 representing NM\_001267556  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGGCCGCTACTCTTACCGCCCCGGCCCTGGGGCCGGCCCTGGGCCTGCTGCAGGCGGGCGCTGCCGG  
ACCAGAGCTTCTGTGGAACGTTTTCCAGAGGGTCGATAAAGACAGGAGTGGAGTGATATCAGACACCGA  
GCTTCAGCAAGCTCTCTCAACGGCACGTGGACTCCCTTTAATCCAGTGACTGTCAGGTCGATCATATCC  
ATGTTTGACCGTGAGAACAAGGCCGGCTGAATTCAGCGAGTTCACGGGTGTGTGGAAGTACATCACGG  
ACTGGCAGAACGTCTTCGCACGTACGACCCGGGACAACCTCCGGGATGATCGATAAGAACGAGCTGAAGCA  
GGCCCTCTCAGGCTACCGGCTCTCTGACCAGTTCACGACATCCTCATTGAAAGTTTGACAGGCAGGGA  
CGGGGGCAGATTGCCTTCGACGACTTATCCAGGGCTGCATCGTCCTGCAGAGGTTGACGGATATATTCA  
GACGTTACGACACGGATCAGGACGGCTGGATTACAGGTGTCGTACGAACAGTACCTGTCCATGGTCTTCAG  
TATCGTA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC232047 representing NM\_001267556  
**Red=Cloning site Green=Tags(s)**

MAAYSYPGPGAGPGAAGAALPDQSFLWNVFRVQDKDRSGVISDTELQQALSNGTWTWPFNPVTVRSIIS  
MFDRENKAGVNFSEFTGVWKYITDWQNVFRTYDRDMSGMIDKNELKQALSGYRLSDQFHDILIRKFDQRQ  
RGQIAFDDFIQGCIVLQRLTDFRRYDTDQDGIQVSYEQYLSMVFSIV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

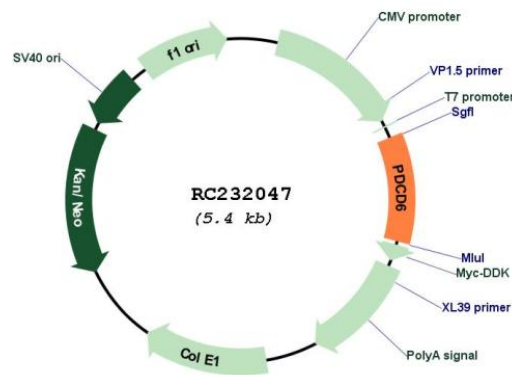


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001267556

ORF Size: 567 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\\_001267556.2](#)

**RefSeq Size:** 1145 bp

**RefSeq ORF:** 570 bp

**Locus ID:** 10016

**UniProt ID:** [O75340](#)

**Cytogenetics:** 5p15.33

**Protein Families:** Druggable Genome

**MW:** 22.1 kDa

**Gene Summary:** This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is also located on the short arm of chromosome 5. [provided by RefSeq, May 2012]