

Product datasheet for **RG232047**

PDCD6 (NM_001267556) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDCD6 (NM_001267556) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PDCD6
Synonyms: ALG-2; ALG2; PEF1B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232047 representing NM_001267556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCTACTCTTACCGCCCGGCCCTGGGGCCGGCCCTGGGCTGCTGCAGGCGGGCGCTGCCGG
 ACCAGAGCTTCTGTGGAACGTTTTCCAGAGGGTCGATAAAGACAGGAGTGGAGTGATATCAGACACCGA
 GCTTCAGCAAGCTCTCTCAACGGCACGTGGACTCCCTTAATCCAGTGACTGTCAGGTCGATCATATCC
 ATGTTTGACCGTGAGAACAAGGCCGGCGTGAATTCAGCGAGTTCACGGGTGTGGAAGTACATCACGG
 ACTGGCAGAACGTCTTCCGCACGTACGACCGGGACAACCTCCGGGATGATCGATAAGAACGAGCTGAAGCA
 GGCCCTCTCAGGCTACCGGCTCTCTGACCAGTTCACGACATCCTCATTGAAAAGTTTGACAGGCAGGGA
 CGGGGGCAGATTGCCTTCGACGACTTATCCAGGGCTGCATCGTCTGCAGAGGTTGACGGATATATTCA
 GACGTTACGACACGGATCAGGACGGCTGGATTCAGGTGTCGTACGAACAGTACCTGTCCATGGTCTTCAG
 TATCGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232047 representing NM_001267556
 Red=Cloning site Green=Tags(s)

MAAYSYPGPGAGPGPAAGAALPDQSFLWNVQVRVDRSGVISDTELQQALSNGTWTFPNPVTVRSIIS
 MFDRENKAGVNFSEFTGVWKYITDWQNVFRTYDRDNSGMIDKNELKQALSGYRLSDQFHDILIRKFDQRG
 RGQIAFDDFIQGCIVLQRLTDFRFRYDTDQDQGWIQVSYEQYLSMVFSIV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

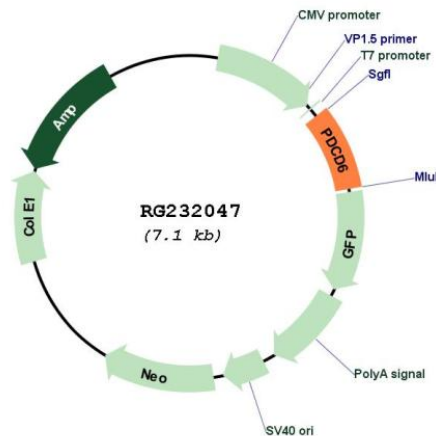


[View online »](#)

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

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]