

## Product datasheet for **SC115334**

### **PDCD6 (NM\_013232) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDCD6 (NM_013232) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDCD6
Synonyms:	ALG-2; ALG2; PEF1B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115334 sequence for NM_013232 edited (data generated by NextGen Sequencing)

```
ATGGCCGCTACTCTTACCGCCCCGGCCCTGGGGCCGGCCTGGGCCTGCTGCAGGCGCG  
GCGCTGCCGACCAGAGCTTCTGTGGAACGTTTTCCAGAGGGTCGATAAAGACAGGAGT  
GGAGTGATATCAGACACCGAGCTTCAGCAAGCTCTCTCCAACGGCACGTGGACTCCCTTT  
AATCCAGTGACTGTCAGGTCGATCATATCCATGTTTGACCGTGAGAACAAGGCCGGCGTG  
AACTTCAGCGAGTTCACGGGTGTGTGGAAGTACATCACGGACTGGCAGAACGTCTTCCGC  
ACGTACGACCCGGGACAACCTCCGGGATGATCGATAAGAACGAGCTGAAGCAGGCCCTCTCA  
GGTTTCGGCTACCGGCTCTCTGACCAGTCCACGACATCCTCATTGAAAGTTTGACAGG  
CAGGGACGGGGCAGATTGCCTTCGACGACTTCATCCAGGGCTGCATCGTCCTGCAGAGG  
TTGACGGATATATTCAGACGTTACGACACGGATCAGGACGGCTGGATTGAGGTGTCGTAC  
GAACAGTACCTGTCCATGGTCTTCAGTATCGTATGA
```

Clone variation with respect to NM\_013232.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013232 unedited  
 GGATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCGGCCTGAG  
 AGGTCTCTCGTCGCTGCAGGCGCCTCAGCCCAGCCGCGTGCCTTGGCCCATGGCCGCTA  
 CTCTTACCGCCCCGGCCCTGGGGCCGGCCCTGGGCTGCTGCAGGCGGGCGCTGCCGGA  
 CCAGAGCTTCTGTGGAACGTTTTCCAGAGGGTCGATAAAGACAGGAGTGGAGTGATATC  
 AGACACCGAGCTTCAGCAAGCTCTCTCCAACGGCACGTGGACTCCCTTTAATCCAGTGAC  
 TGTCAGGTCGATCATATCCATGTTTGACCGTGAGAACAAGGCCGGCGTGAACCTTCAGCGA  
 GTTCACGGGTGTGTGGAAGTACATCACGGACTGGCAGAACGTCTTCCGCACGTACGACCG  
 GGACAACCTCCGGGATGATCGATAAGAACGAGCTGAAGCAGGCCCTCTCAGGTTTCGGCTA  
 CCGGCTCTCTGACCAGTTCACGACATCCTCATTGCAAAGTTTGACAGGCAGGGACGGGG  
 GCAGATTGCCCTTCGACGACTTCCAGGGCTGCATCGTCTGCAGAGGTTGACGGATAT  
 ATTCAGACGTTACGACACGGATCAGGACGGCTGGATTGAGGTGTCGTACGAACAGTACCT  
 GTCCATGGTCTTCAGTATCGTATGACCCTGGCCTCTCGTGAAGAGCAGCACAAATGGAA  
 AGAGCCAAAATGTCACAGTTCCTATCTGTGAGGGAATGGAGCACAGGTGCAGNTAGATGC  
 TGTTCTTCTTTAGATTTNGNCAGTGGGGACCCAGCTGTACATATGTGGGATAGCTGAT  
 TAATGGGTTTGCAGTGTNATATAGCTTGTATCGTCTATGCAACATTGGATTTGGNGCTGG  
 CTCATGTGCCATGAGGGAAGNAATGGTTCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013232 unedited  
 GCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTCACGTCTAACATTCCCTTTA  
 TTGCTTACGTCACATATCCAATGAATACAATAAACTCCTTTTTAAAAAAGTAAGGCACA  
 TGA AAAAGCCTTTTGTGTAAGTTCATGTTATTTTAAAAATTCCTATTGGCTAATAAAAAGCA  
 TTTGCACTATAGAACCAGAGACATCTAGAAAAGCAGATGATAGATTTTTTTGCAAGCAGA  
 ATGCCTGAAACATTACATTTACCTCATGGCACAATGAGACAGTACCAAAATCCAATGTCT  
 GCATTAGAACGATACAGCTACTATTACAGTTGCAAAACCTTAATCAGCTTATCCACATA  
 TGTACAGCTGGGTCCCCACGTGACAAAATCTAAAGGAAGAACAGCATCTAACTGCACCTG  
 TGCTCCATTCCCTCACAGATAGGAACTGTGACATTTTGGCTCTTTCCATGTTGTGCTGCT  
 CTTACAGAGAGCCAGGGTCATACGATACTGAAGACCATGGACAGGTAAGTTCGTACGA  
 CACCTGAATCCAGCCGCTCCTGATCCGTGTCGTAACGTCTGAATATATCCGTCAACCTCTG  
 CAGGACGATGCAGCCCTGGATGAAGTCGTGGAAGCAATCTGCCCCGTCCTGCCTGTG  
 AAATTCGAATGANGATGTCGTGGAAGTGTGAGAGAGCCCGGTAGCCGAAACCTGAGAG  
 GCCCTGCTTCAGCTCGTTCTTATCGATCATCCCGGAGTTGTCCGGTCTGACGTGCCGGAG  
 ACGTTCTGCCAGTTCGTGATGTACTTCCACACCCCGTGAAGTTCAGGCCGC  
 CCTTGTCTCACGTCCACCATGATATGATCGACTGACAGCACTGGATTAAGGAGTCCCCTG  
 CCGTTGGAAAAGACTGCTGAACCTCGGGCTGAATACACTCCTCCGGNCTTACGACCTCTG  
 AAACGCTCCAAGAACTTTGTTTCGANGCCCGCTGCAAAGCCAGGCCGTCACAGCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013232

**Insert Size:**

1070 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_013232.2](#), [NP\\_037364.1](#)

**RefSeq Size:** 1148 bp

**RefSeq ORF:** 576 bp

**Locus ID:** 10016

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

**Cytogenetics:** 5p15.33

**Domains:** EFh

**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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: A downstream translational start codon is selected for this RefSeq based on its better conservation in mammalian species. An upstream in-frame start codon is also present but is poorly conserved; use of the upstream start codon would result in a protein that is 32 aa longer. Leaky scanning by ribosomes may allow translation initiation at the downstream start codon.