

Product datasheet for **SC330761**

PDCD6 (NM_001267559) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDCD6 (NM_001267559) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDCD6
Synonyms:	ALG-2; ALG2; PEF1B
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330761 representing NM_001267559. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCGCTACTCTTACCGCCCCGCCCTGGGGCCGGCCCTGGGCCTGCTGCAGGCGGGCGCTGCCG  
GACCAGAGCTTCTGTGGAACGTTTTCCAGAGGGTCGATAAAGACAGGAGTGGAGTGATATCAGACACC  
GAGCTTCAGCAAGCTCTCCAACGGCACGTGGACTCCCTTAATCCAGTGACTGCAGGTCGATCATA  
TAG
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001267559
Insert Size:	210 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:	<ol style="list-style-type: none">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_001267559.1



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RefSeq Size:	882 bp
RefSeq ORF:	210 bp
Locus ID:	10016
UniProt ID:	O75340
Cytogenetics:	5p15.33
Protein Families:	Druggable Genome
MW:	7.3 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]

Transcript Variant: This variant (5) lacks two consecutive exons in the coding region, which results in a frameshift, compared to variant 1. The encoded isoform (5) is shorter and has a distinct C-terminus, compared to 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.