

Product datasheet for SC313564

PDCD4 (NM_145341) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDCD4 (NM_145341) Human Untagged Clone
Tag: Tag Free
Symbol: PDCD4
Synonyms: H731
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_145341 edited
 ATGACCAATATCCTGATAACTTAAGTGACTCTCTCTTTCCGGTGATGAAGAAAATGCT
 GGGACTGAGGAAGTAAAGAATGAAATAAATGAAATTGGATTTTCAGCATCCTCCATTAAC
 GAAGCTAGAATTAATGCCAAGGCAAAAAGGCGACTAAGGAAAACTCATCCCGGGACTCT
 GGCAGAGGCGATTTCGGTCAGCGACAGTGGGAGTGACGCCCTTAGAAGTGGATTAAGTGTG
 CCAACCACTCAAAGGGAAGGTTGCTGGATAGGCGATCCAGATCTGGAAAGGAAGGGGA
 CTACCAAAGAAAGGTGGTGCAGGAGGCAAAGGTGTCTGGGGTACACCTGGACAGGTGAT
 GATGTGGAGGAGTGGATGTGAAAGATCCTAACTATGATGATGACCAGGAGAAGTGTGTT
 TATGAACTGTAGTTTTGCCTTTGGATGAAAGGCGATTTGAGAAGACTTTAACACCAATC
 ATACAGGAATATTTTGGAGATGACTAATGAAGTTGCGGAAATGTTAAGAGATTTA
 AATCTTGGTGAATGAAAAGTGGAGTACCAGTGTGGCAGTATCCTTAGCATTGGAGGGG
 AAGGCTAGTCATAGAGAGATGACATCTAAGCTTCTTTCTGACCTTTGTGGGACAGTAATG
 AGCACAACGATGTGGAAAAATCATTGATAAATTTGTTGAAAGATCTACCTGAATTAGCA
 CTGGATACTCCTAGAGCACCACAGTTGGTGGGCCAGTTTATTGCTAGAGCTGTTGGAGAT
 GGAATTTTATGTAATACCTATATTGATAGTTACAAAGGAACTGTAGATTGTGTCAGGCT
 AGAGCTGCTCTGGATAAGGCTACCGTCTCTGAGTATGTCTAAAGGTGGAAAGCGTAA
 GATAGTGTGTGGGCTCTGGAGGTGGCAGCAATCTGTCAATCACCTTGTAAAGAGATT
 GATATGCTGCTGAAAGAATTTTACTCTCTGGAGACATATCTGAAGCTGAACATTGCCTT
 AAGGAACCTGGAAGTACCTCATTTCACCATGAGCTTGTATGAAGCTATTATAATGGTT
 TTAGAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGGATTTTAAAGTCCCTTTGG
 AAGTCTTCTACCATTAAGTGTAGACCAAATGAAAAGAGTTATGAGAGAATTTACAATGAA
 ATTCCGGACATTAATCTGGATGTCCACATTCATACTCTGTGCTGGAGCGGTTTGTAGAA
 GAATGTTTTTCAGGCTGGAATAATTTCAAACAACCTCAGAGATCTTTGTCCTTCAAGGGGC
 AGAAAGCGTTTTGTAAGCGAAGGAGATGGAGGTCGTCTTAAACCAGAGAGCTACTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145341 unedited
 GAAAATCGTTCTTCAATTTGTNAATACCAACCTCACTATAGGGGCGGGCCGCGNATATTC
 GGCACGAGGGTTCGGGGCCGGCTGACCAGNAACCTGGGCGAGCAGCGGGGGCCCGAG
 GGATTCTGAAGGAAGATTTCCATTAGGTAATTTGTTAATCAGTGCAAGCGAAATTAAGG
 GAAAATGGATGTAGAAAATGAGCAGATACTGAATGTAAACCCTGCAGGGTATTTCCCTA
 ATCTCCATGGTCTTCAATAGCATGTTATTATCATAAAAAATGAACAGTTTTGTGAATA
 GATGACCAAAATACCTGATAACTTAAGTGACTCTCTTTTTCCGGTGATGAAGAAAATGC
 TGGGACTGAGGAAGTAAAGAATGAAATAAATGGAATTGGATTTAGCATCCTCCATTAA
 CGAAGCTAGAATTAATGCCAAGGCAAAAAGGCGACTAAGGAAAAACTCATCCCGGGACTC
 TGGCAGAGGCGATTCCGGTCAGCGACAGTGGGAGTGACGCCCTTAGAAGTGGATTAAGTGT
 GCCAACCAAGTCCAAAGGGAAGGTTGCTGGATAGGCGATCCAGATCTGGGAAAGGAAGGG
 ACTACCAAGAAAGGTGGTGCAGGAGGCAAGGTGTCTGGGGTACACCTGGACAGGTGTA
 TGATTGGAAGAGTTGGGGATTTTNNAAAGATTCTAACTATGATGATGACCANGNAGAAC
 TGTGTTTATGAACTGGTATTTTGCCTTTGGATGAAAGGGCATTGAAAAGACTTTAACA
 CCCATCTACAGGAATTTTTGAGCATGGAATACTAATGGAGTTGCGGAAATGTTAAGA
 AGATTTAATCTTGGTGAATTGAAAGTGGGATCCCGTGTGGCAGTTTCTTAACTTG
 GAGGGGAAGGCTAGTTCATAAAAA

3' Read Nucleotide Sequence:

>Forward primer walk for NM_145341 unedited
 ATCTTTAGAGCATGGAGAACTAATGAAGTTGCGGATATGTTAAGAGATTTAAATCTTGGT
 GAAATGAAAAGTGGAGTACCAGTGTGGCAGTATCCTTAGCATTGGAGGGGAAGGCTAGT
 CATAGAGAGATGACATCTAAGCTTCTTTCTGACCTTTGTGGGACAGTAATGAGCACAAC
 GATGTGGAAAAATCATTTGATAAATTGTTGAAAGATCTACCTGAATTAGCACTGGATACT
 CCTAGAGCACCACAGTTGGTGGGCCAGTTATTGCTAGAGCTGTTGGAGATGGAATTTA
 TGTAAACCTATATTGATAGTTACAAAGGAAGTGTAGATTGTGTGCAAGGCTAGAGCTGCT
 CTGGATAAGGCTACCGTCTTCTGAGTATGTCTAAAGGTGAAAGCGTAAAGATAGTGTG
 TGGGGCTCTGGAGGTGGGAGCAATCTGTCAATCACCTTGTTAAAGAGATTGATATGCTG
 CTGAAAGAATATTTACTCTCTGGAGACATATCTGAAGCTGAACATTGCCTTAAGGAAGT
 GAAGTACCTCATTTTACCATGAGCTTGTATATGAAGCTATTATAATGGTTTTAGAGTCA
 ACTGGAGAAAAGTACATTTAAGATGATTTTGGATTTATTAAGTCCCTTTGGAAGTCTTCT
 ACCATTACTGTAGACCAAATGAAAAGAGGTTATGAGAGAATTTACAATGAAATTCGGGAC
 ATTAATCTGGATGTCCACATTCACTCTGTGCTGGAGCGGTTTGTAGAAGAATGTTTT
 CAGGCTGGAATAATTTCAAACAACCTCAGAGATCTTTGCCTTCATGGGGCAGAAAGCGT
 TTTGTAGCGAAGAGATGGAGTCGTCTTAACCCAGGAGAGCTACTGAATATTAAGAACTCT
 TGCAGTCTTAGAATGTTATAAAAAATATATTCTGAATTGTAAGAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_145341

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.

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_145341.2](#), [NP_663314.1](#)

RefSeq Size: 3675 bp

RefSeq ORF: 1377 bp

Locus ID: 27250

UniProt ID: [Q53EL6](#)

Cytogenetics: 10q25.2

Domains: MA3

Protein Families: Druggable Genome

Gene Summary: This gene is a tumor suppressor and encodes a protein that binds to the eukaryotic translation initiation factor 4A1 and inhibits its function by preventing RNA binding. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010] Transcript Variant: This variant (2) includes an alternate exon in the 5' coding region and utilizes a downstream start codon, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct N-terminus, compared to isoform 1.