

Product datasheet for **RC238638**

DCP1A (NM_001290205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCP1A (NM_001290205) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCP1A
Synonyms:	HSA275986; Nbla00360; SMAD4IP1; SMIF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238638 representing NM_001290205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCATTTCTCTGTATAGAAATGCAAGCTGTTGAGAAAACAAGAGGCTCAGAGCTGTTTGAAGTAT
 TGCTCGAGATTCGCAAAGTGTGCATATATAGTATCTGGTTTTATGACAAGAATGACTGTCACCGCATAGC
 AAAACTCATGGCTGATGTGGTAGAAGAGGAGACACGGCGATCCCAGCAAGCTGCTCGGGACAAACAGAGT
 CCCAGCCAGGCCAATGGCTGCAGCGACCACAGGCCATCGACATCCTGGAGATGCTGAGCAGAGCCAAGG
 ATGAGTATGAGAGGAATCAGATGGGTGACTCAAAATCTCCAGCCCTGGGTTACAGCCAAGCACTCAGCT
 CTCCAATCTGGGAAGCACCGAGACTCTAGAAGAAATGCCCTCCGGGTACAGGATAAGTCTGCTCCATCT
 GGACACAAGCATCTGACGGTAGAAGAGTATTTGGAACCTCTTTGCCAAGGAACAACCAGCAGTTGTGG
 GTCTGGATTGAGAAGAAATGGAGAGTTGCCAGGAGATGCCTCCAGAAAGAGCCCAATTCATTCTACC
 ATTTCCCTTTGAGCAGTTAGGAGGAGCCCTCAATCAGAAACCTGGGTGTCCCTTCTGCTGCCACCAT
 TCAGTCCAGCCTGAAATCACACCCCGGTGCTAATCACTCCAGCCTCCATCACACAGTCCATGAAAAGC
 ATGCTCCAACCTACACAATCCCCTTGAGCCCTGTTCTCAGTCCCCTCTGCCAGCTGAAGCTCCTACTGC
 ACAGGTTCCCCCAGCTTACCTCGAAACAGCACCATGATGCAGGCAGTGAAGACCACGCCTAGACAGAGG
 TCTCCACTCCTGAACCAGCCAGTCCCTGAGCTAAGCCATGCCAGTCTGATTGCCAACCAGAGCCCTTCA
 GGGCCCCATTGAACGTGACGAACACAGCTGGCAGTCCCTCCCAAGCGTTGATCTTCTCCAGAACTCAG
 GTTGACCCACAGCATGACCAAAACAGACACAACCACTTGGGAAAGGTGCAATGGTAGCCAGCTTTTCT
 CCGGCAGCTGGTACCTAGCCACACCTGAGAGCTTCATAGAGCCTCCCTTAAGACAGCAGCAGCAAGAG
 TGGCGGCTCAGCCTCCCTGAGCAACATGGTGTCTCCCTCAGTCTATGCAGCAGAACCAAGATCC
 TGAAGTATTTGTGACGCTAAGGTGTTATCCAGTGCCATCCCGGTTGACAGCGCCCCACTGGTTACTGCA
 ACGACCACTGCAGTGTCTCAGTCTGCTGGCCCCAAGTGTTCAGCAGACAGTTACAAGATCTTCGG
 ACCTTGAGAGGAAAGCCAGCTCCCTTCTCCTCTAACTATTGGAACGCCAGAAAGTCAAGAAAGCCTTC
 CATTATTCTCAGCAAGTCTCAGCTCCAGGATACATTAATACATCTAATAAAGAATGATTCCAGCTTCCTC
 AGTACACTTCATGAAGTCTACTTGCAGGTTCTGACCAAGAACAAGACAACCACAACCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238638 representing NM_001290205
 Red=Cloning site Green=Tags(s)

MNHFFCIEMQAVEKTRGSELEFRNLLLEIRKVSIIYIWFYDKNDRHIAKLMADVVEEETRRSQQAARDKQS
 PSQANGCSDHRPIDILEMLSRAKDEYERNQMGDSNISSPGLQPSTQLSNLSTETLEEMPSGSDKSAPS
 GHKHLTVEELFGTSLPKEQPAVVGLDSEEMERLPGDASQKEPNSFLPFPEQLGGAPQSETLGVPSAAHH
 SVQPEIITPVLITPASITQSNEKHAPTYTIPLSPVLSPTLPAEAPTAQVPPSLPRNSTMMQAVKTTPRQR
 SPLLNQVPPELASHLIANQSPFRAPLNVNTAGTSLPSVDLLQKLRLTPQHDQIQTPQGKAMVASFS
 PAAGQLATPESFIEPPSKTAAARVAASASLSNMVLAPLQSMQQNQDPEVFVQPKVLSAIPVAGAPLVTA
 TTTAVSSVLLAPSVFQQTIVTRSSDLERKASSPSPLTIGTPESQRKPSIILSKSQLQDTLIHLIKNDSSFL
 STLHEVYLQVLTKNKDNHNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

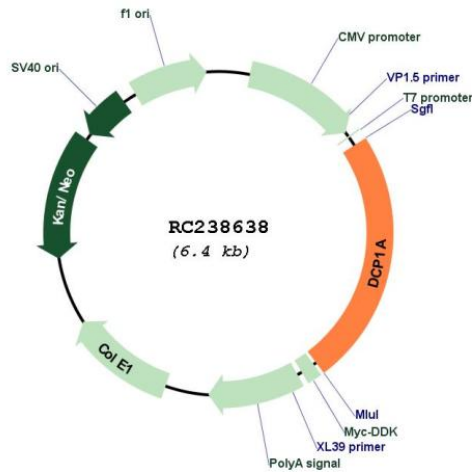
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001290205

ORF Size: 1530 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:	<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_001290205.2
RefSeq Size:	6082 bp
RefSeq ORF:	1533 bp
Locus ID:	55802
UniProt ID:	Q9NPI6
Cytogenetics:	3p21.1
Protein Families:	Transcription Factors
Protein Pathways:	RNA degradation
MW:	55.7 kDa
Gene Summary:	Decapping is a key step in general and regulated mRNA decay. The protein encoded by this gene is a decapping enzyme. This protein and another decapping enzyme form a decapping complex, which interacts with the nonsense-mediated decay factor hUpf1 and may be recruited to mRNAs containing premature termination codons. This protein also participates in the TGF-beta signaling pathway. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]