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Product datasheet for RC202006

CCNDBP1 (NM_012142) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCNDBP1 (NM_012142) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCNDBP1
Synonyms:	DIP1; GCIP; HHM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202006 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAGCGCAACTGCACCTGCAGCCGCAGTCCCCACCCTGGCTTCGCCTTTGGAGCAGCTCCGGCACT
TGGCGGAGGAGCTGCGGTTGCTCCTGCCTCGAGTGCGGGTCGGCGAAGCCCAGGAGACCACCGAGGAGTT
TAATCGAGAGATGTTCTGGAGAAGACTCAATGAGGCAGCTGTGACTGTGTCAAGGGAAGCCACGACTCTG
ACCATAGTCTTCTCTCAGCTTCCACTGCCGTCTCCACAGGAAACCCAGAAGTTCTGTGAACAAGTCCATG
CTGCCATCAAGGCATTTATTGCAGTGTACTATTTGCTTCCAAAGGATCAGGGGATCACCCTGAGAAAGCT
GGTACGGGGCGCCACCCTGGACATCGTGGATGGCATGGCTCAGCTCATGGAAGTACTTTCCGTCACTCCA
ACTCAGAGCCCTGAGAACAATGACCTTATTTCCTACAACAGTGTCTGGGTTGCGTGCCAGCAGATGCCTC
AGATACCAAGAGATAACAAAGCTGCAGCTCTTTTGATGCTGACCAAGAATGTGGATTTTGTGAAGGATGC
ACATGAAGAAATGGAGCAGGCTGTGGAAGAATGTGACCCTTACTCTGGCCTCTTGAATGATACTGAGGAG
AACAACTCTGACAACCACAATCATGAGGATGATGTGTTGGGGTTTCCCAGCAATCAGGACTTGTATTGGT
CAGAGGACGATCAAGAGCTCATAATCCCATGCCTTGCGCTGGTGAGAGCATCCAAAGCCTGCCTGAAGAA
AATTCGGATGTTAGTGGCAGAGAATGGGAAGAAGGATCAGGTGGCACAGCTGGATGACATTGTGGATATT
TCTGATGAAATCAGCCCTAGTGTGGATGATTTGGCTCTGAGCATATATCCACCTATGTGTCACCTGACCG
TGCGAATCAATTCTGCGAAACTTGTATCTGTTTTAAAGAAGGCACTTGAAATTACAAAAGCAAGTCATGT
GACCCCTCAGCCAGAAGATAGTTGGATCCCTTTACTTATTAATGCCATTGATCATTGCATGAATAGAATC
AAGGAGCTCACTCAGAGTGAACTTGAATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202006 protein sequence
Red=Cloning site Green=Tags(s)

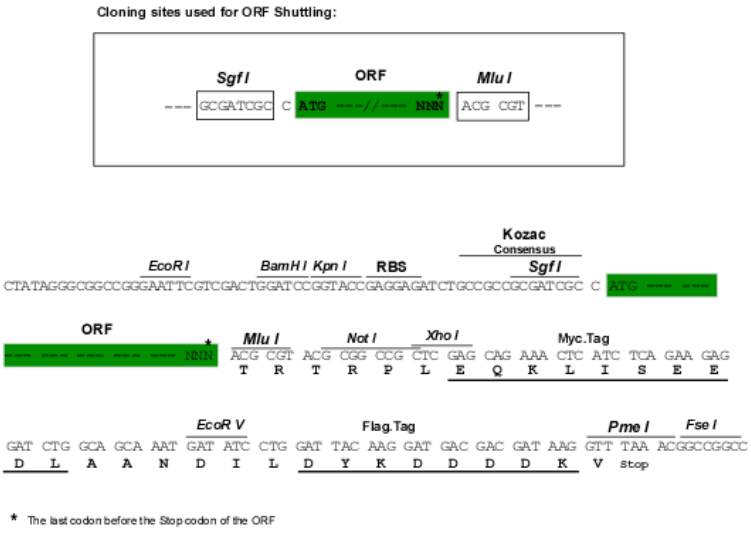
MASATAPAAAVPTLASPLEQLRHLAEELRLLLPRVRVGEAQETTEEFNREMFWRRLNEAAVTVSREATTL
TIVFSQLPLPSPQETQKFCEQVHAAIKAFIAVYYLLPKDQGITLRKLVRGATLDIVDGMAQLMEVLSVTP
TQSPENNDLISYNSVWVACQQMPQIPRDNKAAALLMLTKNVDFVKDAHEEMEQAVEECDPYSGLLNDTEE
NNSDNHNHEDDVLGFPSNQDLYWSEDDQELIIPCLALVRASKACLKKIRMLVAENGKKDQVAQLDDIVDI
SDEISPSVDDLALSIYPPMCHLTVRINSAKLVSVLKKALEITKASHVTPQPEDSWIPLLINAIDHCMNRI
KELTQSELEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6281_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012142

ORF Size: 1080 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_012142.5

RefSeq Size: 3669 bp

RefSeq ORF: 1083 bp

Locus ID: 23582

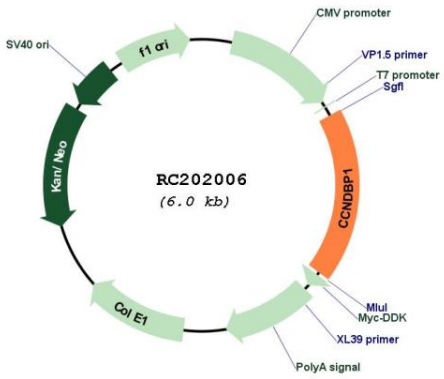
UniProt ID: O95273

Cytogenetics: 15q15.2

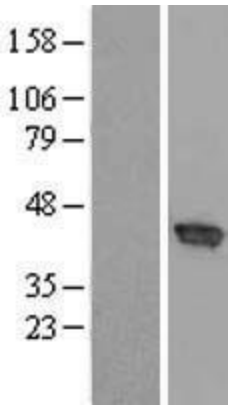
MW: 40.3 kDa

Gene Summary: This gene was identified by the interaction of its gene product with Grap2, a leukocyte-specific adaptor protein important for immune cell signaling. The protein encoded by this gene was shown to interact with cyclin D. Transfection of this gene in cells was reported to reduce the phosphorylation of Rb gene product by cyclin D-dependent protein kinase, and inhibit E2F1-mediated transcription activity. This protein was also found to interact with helix-loop-helix protein E12 and is thought to be a negative regulator of liver-specific gene expression. Several alternatively spliced variants have been found for this gene. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RC202006



Western blot validation of overexpression lysate (Cat# [LY415955]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202006 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).