

Product datasheet for **RC214674**

CDC14B (NM_033331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC14B (NM_033331) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC14B
Synonyms:	Cdc14B1; Cdc14B2; CDC14B3; hCDC14B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214674 representing NM_033331
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCGGAAAAGCGAGCGCGGTCGAGCTGGGCGCCGCGCCCTGCTCGCGGCGCTGCTCGTCGA
 CCTCGCCGGGTGTGAAGAAGATCCGCAGCTCCACGCAGCAAGACCGCGCCGGACCCAGGACGA
 CGTGTACCTGGACATCACCGATCGCCTTTGTTTTGCCATTCTCTACAGCAGACCAAAGAGTGCATCAAAT
 GTACATTATTTACAGCATAGATAATGAACCTGAATATGAGAACTTCTACGCAGATTTGGACCACTCAATC
 TGGCAATGGTTTACAGATATTGTTGCAAGATCAATAAGAAATTAAGTCCATTACAATGTTAAGGAAGAA
 AATTGTTCAATTTACTGGCTCTGATCAGAGAAAACAAGCAATGCTGCCTTCCTGTTGGATGCTACATG
 GTTATATATTTGGGAGAACCCAGAAGAAGCATATAGAATTAATCTTTGGAGAGACATCCTATATTC
 CTTTCAGAGATGCTGCCTATGGAAGTTGCAATTTCTACATTACACTTCTTGACTGTTTTTCATGCAGTAAA
 GAAGGCAATGCAGTATGGCTTCCTTAATTTCAACTCATTTAACCTTGATGAATATGAACACTATGAAAA
 GCAGAAAATGGAGATTTAAATTGGATAATACCAGACCGATTTATTGCCTTCTGTGGACCTCATTCAAGAG
 CCAGACTTGAAAGTGGTTACCACCAACATTCTCCTGAGACTTATATTCAATATTTAAGAATCACAAATGT
 TACTACCATTTTCGCTGAATAAAAGGATGTATGATGCCAAACGCTTTACGGATGCTGGCTTCGATCAC
 CATGATCTTTTCTTTGCGGATGGCAGCACCCCTACTGATGCCATTGTCAAAGAATTCCTAGATATCTGTG
 AAAATGCTGAGGGTGCCATTGCAGTACATTGCAAAGCTGGCCTGGTTCGCACGGGCACTCTGATAGCCTG
 CTACATCATGAAGCATTACAGGATGACAGCAGCCGAGACCATTGCGTGGGTCAGGATCTGCAGACCTGGC
 TCGGTGATTGGCCTCAGCAGCAGTTTTTGGTGATGAAGCAAACCAACCTCTGGCTGGAAGGGGACTATT
 TTCGTGAGAAGTTAAAGGGGCGAGAGAATGGACAACACAGAGCAGCCTTCTCAAACCTTCTCTGGCGT
 TGATGACATTTCCATAAATGGGGTCGAGAATCAAGATCAGCAAGAACCAGAACCGTACAGTGATGATGAC
 GAAATCAATGGAGTGACACAAGGTGATAGACTTCGGGCCTTGAAAAGCAGAAGACAATCCAAAACAACG
 CTATTCCTCTCACAGTAATCTTCAATCCAGTGTTCAGAGCTGTAAAACATCTGAACCTAACATTTCTGG
 CAGTGCAGGCATTACTAAAAGAACCACCAGATCTGCTTCAAGGAAAAGCAGTGTTAAAAGTCTCTCCATT
 TCAAGGACTAAAACAGTCTTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214674 representing NM_033331
 Red=Cloning site Green=Tags(s)

MKRKSERSSWAAAPPCSRRCSSSTSPGVKKIRSSSTQDPRRRDPQDDVYLDITDRLCFAILYSRPKSASN
 VHYFSIDNELEYENFYADFGPLNLMVYRYCCKINKKLSITMLRKKIVHFTGSDQRKQANAFLVGCYM
 VIYLGRTPEEAYRILIFGETSYIPFRDAAYGSCNFYITLLDCFHAVKKAMQYGFNFNSFNLDEYEHYEK
 AENGLNWIIPDRFIAFCGPHSRARLESGYHQHSPETYIQYFKNHVTTIIRLNKRMYDAKRFTDAGFDH
 HDLFFADGSTPTDAIVKEFLDICENAEGAIAVHCKAGLGRGTGLIACYIMKHRYMTAAETIAWVRICRPG
 SVIGPQQQFLVMKQTNLWLEGDYFRQKLKQENGQHRAAFSKLLSGVDDISINGVENQDQPEPEYSDDD
 EINGVTQGDRLRALKSRRQSKTNAIPLTVILQSSVQSKTSEPNISSGAGITKRTTRSASRKSSVKLSI
 SRTKTVLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_033331

ORF Size: 1494 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_033331.4](#)

RefSeq Size: 5589 bp

RefSeq ORF: 1497 bp

Locus ID: 8555

UniProt ID: [O60729](#)

Cytogenetics: 9q22.32-q22.33

Domains: Y_phosphatase, DSPc, PTPc_motif

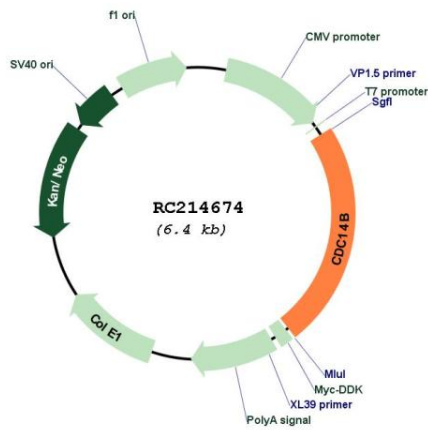
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Cell cycle

MW: 56.8 kDa

Gene Summary: The protein encoded by this gene is a member of the dual specificity protein tyrosine phosphatase family. This protein is highly similar to *Saccharomyces cerevisiae* Cdc14, a protein tyrosine phosphatase involved in the exit of cell mitosis and initiation of DNA replication, which suggests the role in cell cycle control. This protein has been shown to interact with and dephosphorylates tumor suppressor protein p53, and is thought to regulate the function of p53. Alternative splice of this gene results in 3 transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214674