

Product datasheet for **RC210878**

CDC14A (NM_033313) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CDC14A (NM_033313) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CDC14A
Synonyms: cdc14; DFNB32; DFNB35; DFNB105; hCDC14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210878 representing NM_033313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGGAGTCAGGGGAACAAATCGGGGCTTGTGAGTTCATGAAAGATCGGTATATTTTGCTACTT
 TAAGGAATAGACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTATGAAAA
 TTTCTATGCAGATTTTGGACCGCTGAACCTGGCAATGGTGTACAGATATTGCTGCAAACTAAACAAGAAA
 CTAATAATCATACAGTTTGTCAAGAAAGAAAATAGTGCCTACACCTGTTTTGACCAACGGAAAAGAGCAA
 ATGCAGCATTTTTGATAGGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTACAGAGC
 ACTCCTGTCTGGCTCAAACCCCCCTATCTCCATTCAGGGATGCTTCCTTTGAAAATTGCACCTACAAT
 CTCACCATTCTCGACTGTTTGCAGGGAATCAGAAAGGGATTACAACATGGATTTTTTGACTTTGAGACAT
 TTGATGTGGATGAATATGAACATTATGAGCGAGTTGAAAATGGTACTTCAACTGGATTGTTCCAGGAAA
 ATTTTTAGCATTTAGTGGACCACATCCTAAAAGCAAAATGAGAATGGTTATCCTCTTCACGCCCTGAA
 GCCTACTTTCCTATTTCAAAAAGCATAATGTGACTGCAGTTGTGAGGCTAAACAAAAGATTTATGAGG
 CAAAGCGCTTACAGACGCTGGCTTCGAGCACTATGACCTCTTTCATAGATGGCAGCACCCAGTGA
 CAACATCGTGCGAAGGTTCTGAACATCTGTGAGAACACCGAAGGGGCCATCGCCGTTCACTGCAAAGCT
 GGCTTTGGAAGAACAGGGACATTGATAGCCTGTTATGTAATGAAACACTACAGTTTACACATGCTGAAA
 TAATTGCTTGGATTAGAATATGCCGGCCAGGCTCTATTATAGGACCCAGCAGCACTTCTGGAAGAAAA
 ACAAGCATCGTTTGGGTCCAAGGAGACATTTTCCGATCCAAACTGAAAAATCGACCATCCAGTGAAGGA
 AGTATTAATAAAATTTCTTCTGGCCTAGATGATATGTCTATTGGTGGAAATCTTTCAAAAACAAAAACA
 TGAACGATTTGGAGAGGTAAGTTTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210878 representing NM_033313
Red=Cloning site Green=Tags(s)

MAAESGELIGACEFMKDRLYFATLRNRPKSTVNTHYFSIDEELVYENFYADFGPLNLAMVYRYCCKLNKK
 LKSYSLSRKKIVHYTCFDQKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFGNCTYN
 LTILDCLQGIRKGLQHGFFDFETFDVDEYEHYERVENGDFNWIWVPGKFLAFSGPHPKSKIENGYPLHAPE
 AYFPYFKKHVNTAVVRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNI VRRFLNICENTEGAI VHCCKA
 GLGRTGLIACYVMKHYRFTHAEIIAWIRICRPGSIIGPQQHFLEEKQASLWVQGDIFRSKLNRPSSSE
 SINKILSGLDDMSIGGNLSKTQNMERFGEVSFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033313

ORF Size: 1149 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_033313.2](#), [NP_201570.1](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1152 bp

Locus ID: 8556

UniProt ID: [Q9UNH5](#)

Cytogenetics: 1p21.2

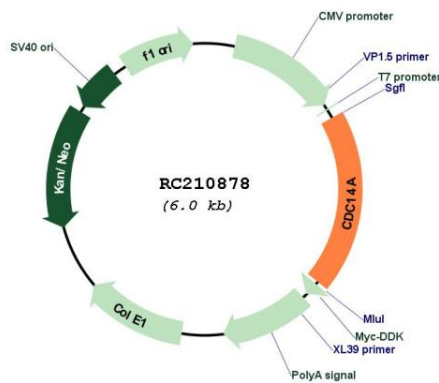
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Cell cycle

MW: 43.7 kDa

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

Product images:



Circular map for RC210878