

Product datasheet for **SC124972**

CDC14A (NM_033313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC14A (NM_033313) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC14A
Synonyms:	cdc14; DFNB32; DFNB35; DFNB105; hCDC14
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033313, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGGAGTCAGGGGAACAAATCGGGGCTTGTGAGTTCATGAAAGATCGGTTATATTTTGCTACTT
TAAGGAATAGACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTATGAAAA
TTTCTATGCAGATTTTGGACCGCTGAACCTGGCAATGGTGTACAGATATTGCTGCAAACTAAACAAGAAA
CTAAAATCATACAGTTTGTCAAGAAAAGAAAATAGTGCCTACACCTGTTTTGACCAACGGAAAAGAGCAA
ATGCAGCATTGATAGGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTACAGAGC
ACTCCTGTCTGGCTCAAACCCCTATCTCCATTGAGGATGCTTCTTTGAAAATTGCACCTACAAT
CTCACCATTCTCGACTGTTTGCAGGGAATCAGAAAGGATTACAACATGGATTTTTGACTTTGAGACAT
TTGATGTGGATGAATATGAACATTATGAGCGAGTTGAAAATGGTGAACCTCAACTGGATTGTTCCAGGAAA
ATTTTTAGCATTAGTGGACCACATCCTAAAAGCAAAATGAGAATGGTATCCTCTTCACGCCCCCTGAA
GCCTACTTTCCTATTTCAAAAAGCATAATGTGACTGCAGTTGTGAGGCTAAACAAAAGATTTATGAGG
CAAAGCGCTTACAGACGCTGGCTTCGAGCACTATGACCTCTTTCATAGATGGCAGCACACCCAGTGA
CAACATCGTGCGAAGGTTCCCTGAACATCTGTGAGAACACCGAAGGGGCCATCGCCGTTCACTGCAAAGT
GGTCTTGAAGAACAGGGACATTGATAGCCTGTTATGTAATGAAACACTACAGTTTACACATGCTGAAA
TAATTGCTTGGATTAGAATATGCCGGCCAGGCTCTATTATAGGACCCAGCAGCACTTCTGGAAGAAAA
ACAAGCATCGTTGTGGGTCCAAGGAGACATTTTCCGATCCAAACTGAAAATCGACCATCCAGTGAAGGA
AGTATTAATAAAATTTCTTCTGGCCTAGATGATATGTCTATTGGTGGAAATCTTTCAAAAACAAAAACA
TGAACGATTTGGAGAGGTAAGTTTTCCCTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_033313 unedited TACGACTCCTATAGGCGGCCGACATTTCGACAGGGCGTTTCCAGCGCGCGGCGGC GGAGCAGCAGCTGCAGCAGCCGAGTCCAAATAGGAGCGGCCACAGCCAGGGCGTGAGCG CCCCGCGCGGAGCGAGCTCGGGTCCCCCGGAATGTCCCGGGGCGCCGGCGCGCTGA CCCCGAAGCCGCTCCGCCTTCGGCGCCTGCTGCCTCCCTCGGCCAGGCTTGTGTTTCGG GACTGTGAGCTTCTGGCTCCTGGGCAGTGGGGAAGCCCCGGGGGCGAGTGACCTCAGC TGGCCACGACCCAGCCCTCCCCGTGCGTATCTCGCTTAAGATGGCAGCGGAGTCAGGGG AACTAATCGGGGCTTGTGAGTTCATGAAAGATCGGTTATATTTTGTACTTTAAGGAATA GACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTATGAAA ATTTCTATGCAGATTTTGGACCGCTGAACTTGGCAATGGTGTACAGATATTGCTGCAAAAC TAAACAAGAACTAAAATCATACAGTTTGTCAAGAAAGAAAATAGTGCCTACACCTGTT TTGACCAACGAAAAGAGCAAATGCAGCATTTTTGTAGGTGCCTATGCAGTAATCTATT TAAAGAAGACACCANAAGAAGCCTACAGAGCACTCCTGTCTGGCTCAAACCCCCCTATC TTCCATTAGGGAGGCTTCCTTTGGAAAATGCACTTACAATCTCACCATTCTCGACTGTT TGCAGGGAATCAGAAGGGGATTACACATGGGATTTTTGACTTTTGAACATTTGATGTGG ATGAATATGACATTATGGAGCGAGTGAAATGGGGAACCTAACGGGATGGTTCAAGAAAT TTTTACCATTAAGGGACCACTCTAAAGCAAATTGAAAGGGTTATCCTCTCACCA
Restriction Sites:	NotI-NotI
ACCN:	NM_033313
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_033313.1 , NP_201570.1
RefSeq Size:	2544 bp
RefSeq ORF:	2544 bp
Locus ID:	8556
UniProt ID:	Q9UNH5
Cytogenetics:	1p21.2
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Cell cycle

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]

Transcript Variant: This variant (3) differs in the 3' UTR and coding sequence compared to variant 2. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.