

## Product datasheet for **SC109948**

### CDC14B (NM\_033331) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC14B (NM_033331) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC14B
Synonyms:	Cdc14B1; Cdc14B2; CDC14B3; hCDC14B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_033331 edited  
 GGCGGGAGCCTCGGCGGGCGCGGGGCCATGGTCTGGCCCCGTGACGGGC  
 CGCGGCCCGCTCCATGAAGCGGAAAAGCGAGCGGGCGGTGAGCTGGGCCCGCGCCCC  
 CTGCTCGCGGGCTGCTCGTACCTCGCCGGTGTGAAGAAGATCCGCAGCTCCACGCA  
 GCAAGACCCGCGCCGGGACCCAGGACGACGTGTACCTGGACATCACCGATCGCCT  
 TTGTTTTGCCATTCTCTACAGCAGACCAAGAGTGCATCAAATGTACATTATTTACAGCAT  
 AGATAATGAACCTGAATATGAGAACTTCTACGCAGATTTTGGACCACTCAATCTGGCAAT  
 GGTTTACAGATATTGTTGCAAGATCAATAAGAAATTAAGTCCATTACAATGTTAAGGAA  
 GAAAATTGTTCTTTACTGGCTCTGATCAGAGAAAACAAGCAAATGCTGCCTTCCTTGT  
 TGGATGTACATGGTTATATATTTGGGAGAACCCAGAGAAGCATATAGAATATTAAT  
 CTTTGGAGAGACATCCTATATTCCTTTCCAGAGATGCTGCCTATGGAAGTTGCAATTTCTA  
 CATTACACTTCTGACTGTTTTTCATGCAGTAAAGAAGGCAATGCAGTATGGCTTCCTTAA  
 TTTCAACTCATTAACCTTGATGAATATGAACACTATGAAAAAGCAGAAAATGGAGATTT  
 AAATTGGATAATACCAGACCGATTTATTGCCTTCTGTGGACCTCATTCAAGAGCCAGACT  
 TGAAGTGGTTACCACCAACATTCTCCTGAGACTTATATTCAATATTTTAAAGATCACAA  
 TGTTACTACCATTATTCGTCTGAATAAAAAGGATGTATGATGCCAAACGCTTTACGGATGC  
 TGGCTTCGATCACCATGATCTTTTCTTTGCGGATGGCAGCACCCCTACTGATGCCATTGT  
 CAAAGAATTCCTAGATATCTGTGAAAATGCTGAGGGTGCCATTGCAGTACATTGCAAAGC  
 TGGCCTTGGTCGCACGGGCACTCTGATAGCCTGTACATCATGAAGCATTACAGGATGAC  
 AGCAGCCGAGACCATTGCGTGGGTGAGGATCTGCAGACCTGGCTCGGTGATTGGGCTCA  
 GCAGCAGTTTTTGGTGATGAAGCAAACCAACCTCTGGCTGGAAGGGGACTATTTTCGTCA  
 GAAGTTAAAGGGGAGGAGAATGGACAACACAGAGCAGCCTTCTCAAACCTCTCTCTGG  
 CGTTGATGACATTTCCATAAATGGGGTCGAGAATCAAGATCAGCAAGAACCCGAACCGTA  
 CAGTGATGATGACGAAATCAATGGAGTGACACAAGGTGATAGACTTCGGGCCTTGAAAAG  
 CAGAAGACAATCCAAAACAACGCTATTCTCTCACAGTAATTCTTCAATCCAGTGTTC  
 GAGCTGTAAAACATCTGAACCTAACATTCTGGCAGTGCAGGCATTACTAAAAGAACCAC  
 CAGATCTGCTTCAAGGAAAAGCAGTGTTAAAAGTCTCTCCATTTCAAGGACTAAAACAGT  
 CTTGCGTTAA

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_033331

**Insert Size:** 1600 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_033331.1](#), [NP\\_201588.1](#)

**RefSeq Size:** 4624 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

**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]

Transcript Variant: This variant (2) encodes the longest isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.