

## Product datasheet for **SC314240**

### CDC14A (NM\_033312) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC14A (NM_033312) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC14A
Synonyms:	cdc14; DFNB32; DFNB35; DFNB105; hCDC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

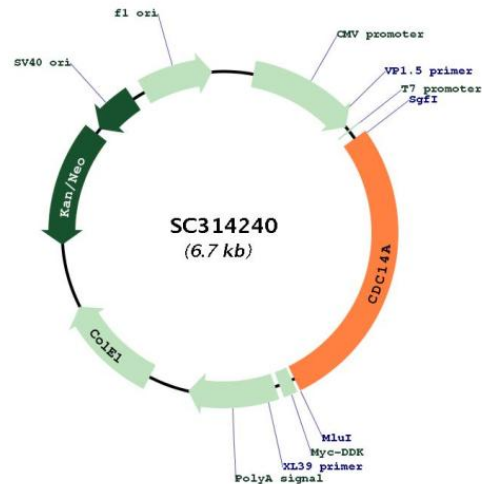


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Fully Sequenced ORF: >SC314240 representing NM\_033312.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGAGTCAGGGGAACAAATCGGGCTTGTGAGTTCATGAAAGATCGGTTATATTTTGCTACT
TTAAGGAATAGACAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTATGAA
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GCAATGCAGCATTTTTGATAGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTAC
AGAGCACTCCTGTCTGGCTCAAACCCCCCTATCTCCATTGAGGGATGCTTCCTTTGAAATTGCACT
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GCCCTGAAGCCTACTTTCTTATTTCAAAAAGCATAATGTGACTGCAGTTGTGAGGCTAAACAAAAG
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CTGCAAGGATCTGCAGTTACTTTGAAGACATCAAAAATGGCACTGTCCCCTTCAGCAACGGCCAAGAGG
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GGCTTCACAGCCAGCCGTTTACCAACCTCTTGAATGGCAGCTCCAGCCAACTACCAGAAATTACCCT
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CCCCACAGCGCAAGACAGAGGAGCACACCACCTCCTCCGACCCTCCTACACCGGGCTTTCTTCTTCT
TCAGCGAGATTCCTGAGCCGTTCTATCCCTGTAAGTGCGCAGACACCACCTCCTGGTCTCAGAACCCT
GAATGCAACTTCTGTGCCTTGCCTTCCCAGCCGAGGCTGCCACCAAGAAATTTAATAGTCCAAGGAA
GCCTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_033312

**Insert Size:** 1872 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\\_033312.2](#)

**RefSeq Size:** 2453 bp

**RefSeq ORF:** 1872 bp

**Locus ID:** 8556

**UniProt ID:** [Q9UNH5](#)

<b>Cytogenetics:</b>	1p21.2
<b>Domains:</b>	Y_phosphatase
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Cell cycle
<b>MW:</b>	69.5 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the dual specificity protein tyrosine phosphatase family. It is highly similar to <i>Saccharomyces cerevisiae</i> 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]</p> <p>Transcript Variant: This variant (2) encodes the longest isoform (2).</p>