

## Product datasheet for RC219324L3

### CDC14A (NM\_003672) Human Tagged Lenti ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | CDC14A (NM_003672) Human Tagged Lenti ORF Clone                |
| Tag:                      | Myc-DDK  |
| Symbol:                   | CDC14A   |
| Synonyms:                 | cdc14; DFNB32; DFNB35; DFNB105; hCDC14                         |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                           |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                     |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC219324). |
| Restriction Sites:        | SgfI-MluI  |
| Cloning Scheme:           |  |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

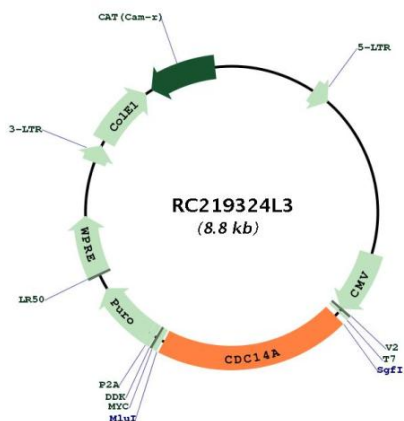
|           |           |
|-----------|-----------|
| ACCN:     | NM_003672 |
| ORF Size: | 1782 bp   |



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|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_003672.2</a>  |
| <b>RefSeq Size:</b>           | 4262 bp  |
| <b>RefSeq ORF:</b>            | 1785 bp  |
| <b>Locus ID:</b>              | 8556   |
| <b>UniProt ID:</b>            | <a href="#">Q9UNH5</a>   |
| <b>Cytogenetics:</b>          | 1p21.2   |
| <b>Domains:</b>               | Y_phosphatase, DSPc, PTPc_motif  |
| <b>Protein Families:</b>      | Druggable Genome, Phosphatase  |
| <b>Protein Pathways:</b>      | Cell cycle   |
| <b>MW:</b>                    | 66.4 kDa   |
| <b>Gene Summary:</b>          | 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] |

Product images:



Circular map for RC219324L3