

## **Product datasheet for RC210742L4**

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OriGene Technologies, Inc.

## CDC7 (NM\_003503) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** CDC7 (NM\_003503) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: CDC7

**Synonyms:** CDC7L1; HsCDC7; Hsk1; huCDC7

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC210742).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_003503

ORF Size: 1722 bp





**OTI Disclaimer:** 

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

**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:

Cytogenetics:

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:** <u>NM 003503.2</u>

 RefSeq Size:
 3222 bp

 RefSeq ORF:
 1725 bp

 Locus ID:
 8317

 UniProt ID:
 000311

**Domains:** pkinase, TyrKc, S\_TKc

1p22.1

**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle
MW: 63.9 kDa

**Gene Summary:** This gene encodes a cell division cycle protein with kinase activity that is critical for the G1/S

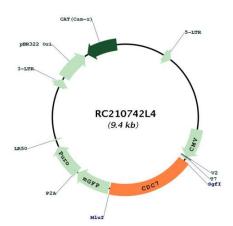
transition. The yeast homolog is also essential for initiation of DNA replication as cell division

occurs. Overexpression of this gene product may be associated with neoplastic transformation for some tumors. Multiple alternatively spliced transcript variants that

encode the same protein have been detected. [provided by RefSeq, Aug 2008]



# **Product images:**



Circular map for RC210742L4