

Product datasheet for RC230219L3

OriGene Technologies, Inc.

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CDC45L (CDC45) (NM_001178011) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CDC45L (CDC45) (NM_001178011) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CDC45L

Synonyms: CDC45L; CDC45L2; MGORS7; PORC-PI-1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC230219).

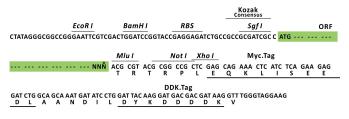
Sequence:

The one thought of this clone is exactly the same as (No230213

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001178011

ORF Size: 1560 bp





CDC45L (CDC45) (NM_001178011) Human Tagged Lenti ORF Clone - RC230219L3

OTI Disclaimer: 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. More info

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: 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 001178011.1</u>, <u>NP 001171482.1</u>

22q11.21

 RefSeq ORF:
 1563 bp

 Locus ID:
 8318

 UniProt ID:
 075419

Cytogenetics:

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Cell cycle MW: 60.7 kDa

Gene Summary: The protein encoded by this gene was identified by its strong similarity with Saccharomyces

cerevisiae Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a

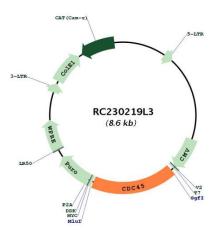
member of the highly conserved multiprotein complex including Cdc6/Cdc18, the

minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in Xenopus suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate

splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]



Product images:



Circular map for RC230219L3