

Product datasheet for RC217634L3

CDK2 (NM_052827) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CDK2 (NM 052827) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: CDK2

Synonyms: CDKN2; p33(CDK2)

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(RC217634).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_052827

ORF Size: 792 bp



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CDK2 (NM_052827) Human Tagged Lenti ORF Clone - RC217634L3

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 052827.1</u>, <u>NP 439892.1</u>

 RefSeq Size:
 2226 bp

 RefSeq ORF:
 795 bp

 Locus ID:
 1017

 UniProt ID:
 P24941

Cytogenetics:

Domains: pkinase, TyrKc, S TKc

Protein Families: Druggable Genome, Protein Kinase

12q13.2

Protein Pathways: Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-

mediated oocyte maturation, Prostate cancer, Small cell lung cancer

MW: 29.9 kDa

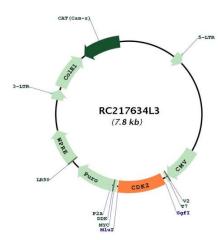
Gene Summary: This gene encodes a member of a family of serine/threonine protein kinases that participate

in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Mar 2014]



Product images:



Circular map for RC217634L3