

## **Product datasheet for RC228197L3**

# OriGene Technologies, Inc.

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### CDK5 (NM\_001164410) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: CDK5 (NM\_001164410) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

**Symbol:** CDK5

**Synonyms:** LIS7; PSSALRE

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(RC228197).

Sequence:

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_001164410

ORF Size: 780 bp





### CDK5 (NM\_001164410) Human Tagged Lenti ORF Clone - RC228197L3

**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 001164410.1</u>

 RefSeq ORF:
 783 bp

 Locus ID:
 1020

 UniProt ID:
 Q00535

 Cytogenetics:
 7q36.1

Protein Families: Druggable Genome, Protein Kinase

**Protein Pathways:** Alzheimer's disease, Axon guidance

**MW:** 29.4 kDa

**Gene Summary:** This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-

dependent kinase family of proteins. Unlike other members of the family, the protein

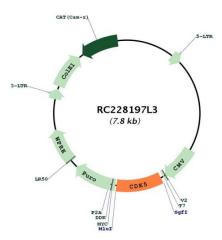
encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and

exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, May 2015]



# **Product images:**



Circular map for RC228197L3