

Product datasheet for RC214065L3

OriGene Technologies, Inc.

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p19 INK4d (CDKN2D) (NM_001800) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: p19 INK4d (CDKN2D) (NM 001800) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: p19 INK4d

Synonyms: INK4D; p19; p19-INK4D

Mammalian Cell Puromycin

Selection:

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

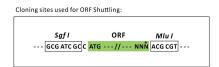
E. coli Selection: Chloramphenicol (34 ug/mL)

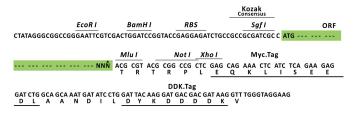
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC214065).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001800

ORF Size: 498 bp





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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 001800.3</u>, <u>NP 001791.1</u>

 RefSeq Size:
 1416 bp

 RefSeq ORF:
 501 bp

 Locus ID:
 1032

 UniProt ID:
 P55273

Cytogenetics: 19p13.2

Protein Families: Druggable Genome

Protein Pathways: Cell cycle

MW: 17.5 kDa

Gene Summary: The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase

inhibitors. This protein has been shown to form a stable complex with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. The abundance of the transcript of this gene was found to oscillate in a cell-cycle dependent manner with the lowest expression at mid G1 and a maximal expression during S phase. The negative regulation of the cell cycle involved in this

protein was shown to participate in repressing neuronal proliferation, as well as

spermatogenesis. Two alternatively spliced variants of this gene, which encode an identical

protein, have been reported. [provided by RefSeq, Jul 2008]