

Product datasheet for **SC120263**

p19 INK4d (CDKN2D) (NM_079421) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p19 INK4d (CDKN2D) (NM_079421) Human Untagged Clone
Tag:	Tag Free
Symbol:	p19 INK4d
Synonyms:	INK4D; p19; p19-INK4D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120263 sequence for NM_079421 edited (data generated by NextGen Sequencing)

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ATGCTGCTGGAGGAGTTTCGCGCCGGCGACCCGGCTGAGTGGGGCGGCGGCCCGGGGCGAC
GTCAGGAGGTGCGCCGCTTCTGCACCGCGAGCTGGTGCATCCCAGCGCCCTCAACCGC
TTCGGCAAGACGGCGCTGCAGGTCATGATGTTTGGCAGCACCGCCATCGCCCTGGAGCTG
CTGAAGCAAGGTGCCAGCCCAATGTCCAGGACACCTCCGGTACCAGTCCAGTCCATGAC
GCAGCCCCCACTGGATTCTGGACACCCTGAAGGTCTAGTGGAGCACGGGGCTGATGTC
AACGTGCCTGATGGCACCGGGCACTTCCAATCCATCTGGCAGTTCAAGAGGGTCACACT
GCTGTGGTCAGCTTTCTGGCAGCTGAATCTGATCTCCATCGCAGGGACGCCAGGGGTCTC
ACACCCTTGGAGCTGGCACTGCAGAGAGGGGCTCAGGACCTCGTGGACATCCTGCAGGGC
CACATGGTGGCCCCGCTGTGA
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Clone variation with respect to NM_079421.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_079421 unedited
 GGTCAACATTTGTATACGACTACTATAGGCGGCCGGAATCGGCACGAGGCCTCGTGCC
 GAATTCGGCACGAGGTCGACATGCTGCTGGAGGAGGTTCCGCGCCGGCACCAGGCTGAGTG
 GGGCGCGGCCCGGGGGCAGCTGCAGGAGGTGCGCCGCTTTCGACCCGCGAGCTGGTGC
 ATCCCCAGCCCTCAACCGCTTCGGCAAGACGGCGCTGCAGGTCATGATGTTTGGCAGCA
 CCGCCATCGCCCTGGAGCTGCTGAAGCAAGGTGCCAGCCCCAATGTCCAGGACACCTCCG
 GTACCACTCCAGTCCATGACGCAGCCCGCACTGGATTCTTGACACCCCTGAAGGTCCTAG
 TGGAGCACGGGGCTGATGTCAACGTGCCTGATGGCACCGGGGCACTTCCAATCCATCTGG
 CAGTTCAAGAGGGTCACACTGCTGTGGTCACTTTCTGGCAGCTGAATCTGATCTCCATC
 GCAGGGACGCCAGGGGTCTCACACCCTTGGAGCTGGCACTGCAGAGAGGGGCTCAGGACC
 TCGTGGACATCTGCAGGGCCACATGGTGGCCCCGCTGTGATCTGGGGTCAACCCTCTCCA
 GCAAGAGAACCCCGTGGGGTTATGTATCAGAAGAGAGGGGAAGAAACACTTTCTTTCTT
 GTTTCTCCTGCCACTGCTGCAGTAGGGGAGGAGCACAGTTTGTGGCTTATAGGTGTTGG
 TTTGGGGTGTGAGTGTGGGGGAACGTTTCTCATTGTTTTTCTCACTTTTTGGTGT
 GTTGACCAGAGAAGGCTCCTGCANGCCACAGCCCTACCGGTTTCANNTTCTCTGCGCCTC
 AGCTTGCTGGNGCCTCAGACAGACCCAAGCAAGCATTTAANAATGAAGTCATGACTNCA
 GGAGCCTAAAGCTGTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_079421 unedited
 ATGGCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATCTGCACAAGTC
 TTAATTTAATGGTAAAAACATTAATTTTACAACATTTTTTCCAATAAAGCATAATAA
 ATAGAATCCATTTCTTTTAAAACGCTGTACAAGAGACTGGAAAACAAGCTTCCAACAGAA
 TATGAATAACTCATAACTATTCTACCTTCTTATTGATTTGGGACGCTCCCCCACCCCC
 CATGCCTGAAGCAACGTGCACACTTCAGTCTCTGAGCACAGCCGGCCAAGGCCACCAGC
 TTCTAGGCTCCCTGGAGGTCATGACTTCACTCTTAAATGCTCTGCCCTTGGGTCTCGTCT
 GAGGCCCCAGCAGCCTGAGGCGCAGAAGAACTGAACCGTTTAGGTGGCTGTGGCCTGCA
 GGAGCCCTTCTCTGTCCAACACACCAAAGGAGTGAGAAAAACAATGAGAAACGTCCTCC
 CAAACTCACACCCCCAAAACCAACACTATAAGCCACAACTGTGCTCCTCCCCTACT
 GCAGCAGTGGGCAGGAGAAAACAAGAGAAAGTGTTCCTCCCCTCTTCTGATACAT
 AACCCACGGGGTCTCTTGTGGAGAGGGTGACCCAGATCACAGCGGGGCCACCATGT
 GGCCCTGCAGGATGCCACGAGGTCCTGAGCCCTCTCTGCAGTGCCAGCTCCAAGGGTG
 TGAGACCCTGGCGTCCCTGCGATGGAGATCAGATTCAGCTGCCAGAAAGCTGACCACAG
 CAGTGTGACCCTCTTGGACTGCCAGATGGATTGGGAAGTGCCCGNTGCCATCAGGGCAC
 GTGACATCAGCCCCGTGCTCCACTAGGACCTTCAGGNTGTNAGNAATNCANTGCGGNCT
 GCGTCATGGACTGGACTGGTACCGGAGGTGCTGGAACTTGGGCTGGCACCTTGCTTA
 GCACTNCAAGGCGATGGNCGTGTGCCNACATCATGACCN

Restriction Sites:

NotI-NotI

ACCN:

NM_079421

Insert Size:

1000 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 custsupport@origene.com 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. [More info](#)

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: [NM_079421.2](#), [NP_524145.1](#)

RefSeq Size: 1162 bp

RefSeq ORF: 501 bp

Locus ID: 1032

UniProt ID: [P55273](#)

Cytogenetics: 19p13.2

Protein Families: Druggable Genome

Protein Pathways: Cell cycle

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]
 Transcript Variant: This variant (2) contains a different 5' UTR region, and encodes an identical protein, as compared to variant 1.

