

## Product datasheet for **MR204976**

### Cdkn1c (NM\_009876) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkn1c (NM_009876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkn1c
Synonyms:	AL024410; CDKI; Kip2; p57(kip2); p57Kip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204976 representing NM_009876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACGCTTGGCTCCAGCGATACCTTCCCAGTGATAGCGGTAGCAGCGCTGCCGAGCCTCTTCG  
GGCCTGTAGACCACGAGGAGCTGGGCCGCGAGCTGCGGATGCGCCTGGCCGAGCTGAACGCCGAGGACCA  
GAACCGCTGGGACTTCAACTTCCAGCAGGATGTGCCTCTTCGAGGCCCTGGTCGCTGCAGTGGATGGAG  
GTGGACAGCGAGTCTGTGCCCGCTTCTACCGCGAGACGGTGCAGGTGGGGCGCTGTCGCCTGCAGCTGG  
GGCCCCGGCCACCCCGGTGGCCGTGGCTGTCATCCCGCTTCTGGGCCCGCGGCTGGCGAGGCCCCGA  
CGGCCTAGAGGAGGCGCCTGAGCAGCCGCCAGCGCCCAAGCCTCGGCCGTGGTCGCGGAGCCACCCCA  
CCCGCGACCCCGCCCGGCTTCAGATCTGACCTCAGACCCAATTCGGAGGTGACCCTGGTCGCGACCT  
CCGACCCGACTCCGGACCCGATCCCGGACGCGAACCCGGACGTGGCGACTCGGGACGCGGAGGAACAGGT  
CCCTGAGCAGGTCTCTGAGCAGGGCGAGGAGTCGGGTGCTGAGCCGGGTGATGAGCTGGAACTGAGCCG  
GTCTCTGAGCAGGGCGAGGAGCAGGGCGCAGAGCCGGTCGAGGAGAAGGACGAGGAGCCGGAGGAGGAGC  
AGGGCGCGGAGCCGGTCGAGGAGCAGGGTGCAGGAGCCGGTCGAGGAGCAGAATGGGGAGCCGGTCGAGGA  
GCAGGACGAGAATCAAGAGCAGCGCGCCAGGAGCTGAAGGACCAGCCTCTCTCGGGATTCCAGGACGT  
CCTGCACCCGGGACTGCTGCGGCCAATGCGAACGACTTCTTCGCCAAGCGCAAGAGAATGCCGAGGAGA  
ACAAGGCGTCGAACGACGTCCCTCCAGGGTGTCCCTCTCCAACGTGGCTCCTGGGGTGGCGCGGTGGA  
GCAGACCCCGCGCAAACGTCTGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204976 representing NM\_009876  
 Red=Cloning site Green=Tags(s)

MERLASSDTFPVIARSSACRSLFGPVDHEELGRELRMRLAELNAEDQNRWDFNFQQDVP LRGPGRLQWME  
 VDSESVPAFYRETVQVGRCLQLGPRPPVAVAVIPRSGPPAGEAPDGLLEEAPQPPSAPASAVVAEPTP  
 PATPAPASDLTSDPIPEVTLVATSDPTDPIPDANPDVATRDGEEQVPEQVSEQGEESGAEPGDELGTPE  
 VSEQEEEQGAEPVEEKDEEPEEEQGAEPVEEQGAEPVEEQNGEPVEEQDENQEQRQQLKDQPLSGIPGR  
 PAPGTAANANDFFAKRKRTAQENKASNDVPPGCPSPNVAPGVGAVEQTPRKRLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009876

**ORF Size:** 1005 bp

**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:** [NM\\_009876.4](#), [NP\\_034006.3](#)

**RefSeq Size:** 1852 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 12577

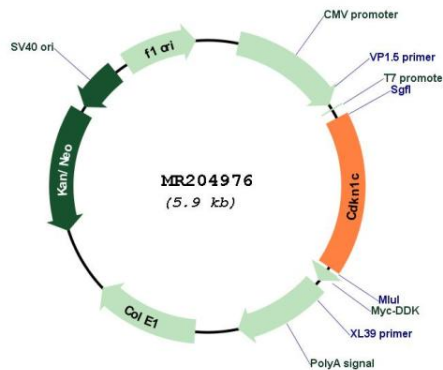
**UniProt ID:** [P49919](#)

**Cytogenetics:** 7 88.22 cM

**MW:** 36.4 kDa

**Gene Summary:** Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non-proliferative state throughout life.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204976