

## Product datasheet for **RR200170**

### Cdkn1c (NM\_182735) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkn1c (NM_182735) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkn1c
Synonyms:	Kip2; p57; p57KIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200170 representing NM_182735 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCATGTCCGACGTGTACCTCCGCAGCAGAACAGCGATGGAACGCTTGGCCTCCAGCGACACCTTCC  
CAGTGATAGCGCGCAGCAGCGCCTGCCGACGCTCTTCGGGCTGTAGACCACGAGGAGCTGGGCCGCGA  
GCTGCGGATGCGCCTGGCGGAGCTGAACCCGAGGACCAGAACCGCTGGGACTTCAACTCCAGCAGGAT  
GTGCTCTTCGAGGCCCTGGTCTGTCAGTGGATGGAGGTGGACAGCGAGTCTGTGCCGCTTCTACC  
GCGAGACGGTGCAGGTGGGGCGCTGTGCTGTCAGCTGGGGCCCCGGCCACCTCCGGTGGCTGTGGCTGT  
CATCCCGCTTCTGGGCCGCCGCTGGCGAGGGCCCCGACGGCCTAGAGGAGGCGCCTGAGCAGCCGCC  
AGCGCCCCAGCCTCGGCCGTGGTCCGCGAGCCACCCACCCGCGACCCCGGCCCGCCCTCAGATCTGA  
CCTCAGACCCGATTCCGGACGTGACCCCGTCCGACCTCGGACTCGACTCCAGACCCGATCCCAGACGT  
GGCGACTCAGGACGGCGAGGAACAGGTCCTGAGCAGGTCTCTGAGCAGGTCTCTGAGCAGGGCGAGGAG  
TCGGGTGCTGAGCCGGTGATGAGCTGGGAGCTGAGCCGGTCTCTGAGCAGGGCAAGCAGAGGGCGCG  
AGCCGGTCGAGGAGAAGGACGAGGAGCCGGTGGAGGAGCAGGGCGCAGAGCCGGTCGAGGAGAAGGACGA  
GGAGCCAGTCGAGGGCAGAACGGGAGCTGGTCGAGGAGCAGGACGAGAATCAGGAGCTGAAGGACCAG  
CCTCTCTCGGGGATTCCAGGACGCTCTGACCCGGGACTGCTGCGCCAATGCGAACGACTTCTTCGCCA  
AGCGCAAGAGAAGTGCAGGAGAGAACAAGGCGTCGAACGATGTCCTGCAAGGTGTCCTCTCCTAACGT  
GGCTCTGGGGTGGGCGGGTGGAGCAGACCCCGCAAACGTCTGCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200170 representing NM\_182735  
Red=Cloning site Green=Tags(s)

MGMSDVYLRRTAMERLASSDTFPVIARSSACRSLFGPVDHEELGRELRLAELNAEDQNRWDFNFQQD  
 VPLRGPGRQLQWMEVDSESVPAFYRETVQVGRCLQLGPRPPVAVAVIPRSGPPAGEGPDGLEEAPEQPP  
 SAPASAVVAEPTPPATPAPASDLTSDPIPDPVTPVATSDSTPDPIDPVATQDGEEQVPEQVSEQVSEQGEE  
 SGAEPGDELGAEPVSEQGKQQAEPVEEKDEEPVEEQGAEPVEEKDEEPVEGQNGELVEEQDENQELKDQ  
 PLSGIPGRPAAGTAAANANDFFAKRKRTAQENKASNDVPAGCPSPNVAPGVGAVEQTPRKRLR

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\_182735

**ORF Size:** 1029 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\\_182735.2](#), [NP\\_877399.2](#)

**RefSeq Size:** 1910 bp

**RefSeq ORF:** 1032 bp

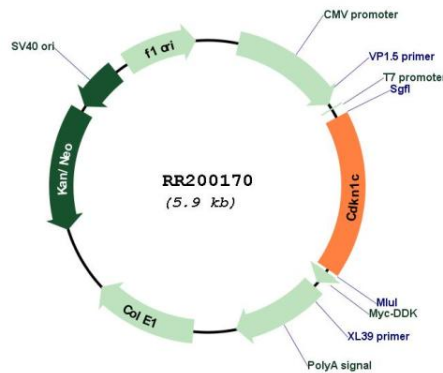
**Locus ID:** 246060

**Cytogenetics:** 1q42

**MW:** 36.7 kDa

**Gene Summary:** cyclin-dependent protein kinase inhibitor; may be involved in regulating cell proliferation during embryogenesis [RGD, Feb 2006]

**Product images:**



Circular map for RR200170