

Product datasheet for **RR200171**

Cdkn1c (NM_001033757) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdkn1c (NM_001033757) 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: >RR200171 representing NM_001033757
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATGTCCGACGTGTACCTCCGCAGCAGAACAGCGATGGAACGCTTGGCCTCCAGCGACACCTTCC
CAGTGATAGCGCGCAGCAGCGCCTGCCGACGCTCTTCGGCCTGTAGACCACGAGGAGCTGGGCCGCGA
GCTGCGGATGCGCCTGGCGGAGCTGAACCCGAGGACCAGAACCGCTGGGACTTCAACTCCAGCAGGAT
GTGCTCTTCGAGGCCCTGGTCTGTCAGTGGATGGAGGTGGACAGCGAGTCTGTGCCGCTTCTACC
GCGAGACGGTGCAGGTGGGGCGCTGTGCTGTCAGCTGGGGCCCCGGCCACCTCCGGTGGCTGTGGCTGT
CATCCCGCTTCTGGGCCGCCGCTGGCGAGGGCCCCGACGGCCTAGAGGAGGCGCCTGAGCAGCCGCC
AGCGCCCCAGCCTCGGCCGTGGTTCGCGGAGCCACCCACCCGCGACCCCGGCCCGGCCTCAGATCTGA
CCTCAGACCCGATTCCGGACGTGACCCCGGTTCGCGACCTCGGACTCGACTCCAGACCCGATCCCAGACGT
GGCGACTCAGGACGGCGAGGAACAGGTCCCTGAGCAGGTCTCTGAGCAGGTCTCTGAGCAGGGCGAGGAG
TCGGGTGCTGAGCCGGTGATGAGCTGGGAGCTGAGCCGGTCTCTGAGCAGGGCAAGCAGAGGGCGCG
AGCCGGTTCGAGGAGAAGGACGAGGAGCCGGTGGAGGAGCAGGGCGCAGAGCCGGTTCGAGGAGAAGGACGA
GGAGCCAGTCGAGGGGCAGAACGGGAGCTGGTTCGAGGAGCAGGACGAGAATCAGGAGCTGAAGGACCAG
CCTCTCTCGGGGATTCCAGGACGTCTGCAGCCGGGACTGTGCGGCAATGCGAACGGTCCGATCAAGA
AGCTGTGCGGGCCTCTCATCTGACTTCTCGCCAAGCGCAAGAGAAGTGCAGGAGAAACAAGGCGTC
GAACGATGTCCTGCAGGTTGTCCTCTCCTAACGTGGCTCTGGGTGGGCGCGGTGGAGCAGACCCCG
CGCAAACGTCTGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR200171 representing NM_001033757
 Red=Cloning site Green=Tags(s)

MGMSDVYLRRTAMERLASSDTFPVIARSSACRSLFGPVDHEELGRELRLMRLAELNAEDQNRWDFNFQQD
 VPLRGPGRQLQWMEVDSESVPAFYRETVQVGRCLQLGPRPPPVAVAVIPRSGPPAGEGPDGLEEAPEQPP
 SAPASAVVAEPTPPATPAPASDLTSDPIPDPVTPVATSDSTPDPDPVATQDGEEQVPEQVSEQVSEQGEE
 SGAEPGDELGAEPVSEQGKQQAEPVEEKDEEPVEEQGAEPVEEKDEEPVEEQNGELVEEQDENQELKDQ
 PLSGIPGRPAAGTAAANANGAIKKLSGPLISDFFAKRKRTAQENKASNDVPAGCSPNVAPGVGAVEQTP
 RKRLR

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_001033757

ORF Size: 1065 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_001033757.1](#), [NP_001028929.1](#)

RefSeq Size: 2081 bp

RefSeq ORF: 1068 bp

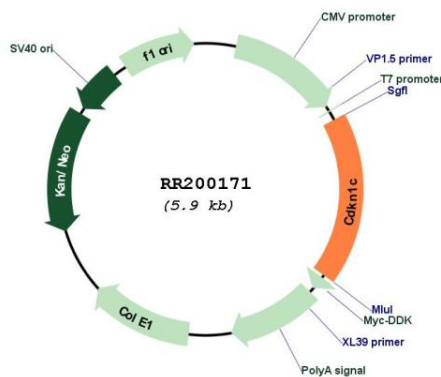
Locus ID: 246060

Cytogenetics: 1q42

MW: 37.8 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 RR200171