

Product datasheet for **RC225428**

p57 Kip2 (CDKN1C) (NM_001122631) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p57 Kip2 (CDKN1C) (NM_001122631) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CDKN1C
Synonyms: BWCR; BWS; KIP2; p57; p57Kip2; WBS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225428 representing NM_001122631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGTCTTGTCGCCCGTGGGACCTTCCCAGTACTAGTGCACACCAGCGCTGCCGAGCCTTTCCG
GGCCGGTGGACCACGAGGAGCTGAGCCGCGAGCTGCAGGCCCGCCTGGCCGAGCTGAACGCCGAGGACCA
GAACCGCTGGGATTACGACTTCCAGCAGGACATGCCGCTGCGGGGCCCTGGACGCCTGCAGTGGACCGAA
GTGGACAGCGACTCGGTGCCCGCTTCTACCGCGAGACGGTGCAGGTGGGGCGCTGCCCGCTGCTGCTGG
CGCCGCGCCCGTCCGCGTCCGCGTGGTGTGACGCCGCCCTCGAGCCGGCCGCTGAGTCCCTCGACGG
CCTCGAGGAGGCGCCGGAGCAGCTGCCTAGTGTCCCGGTCCCGGCCCGCGTCCACCCCGCCCGAGTC
CCGGTCTGGCTCCAGCCCCGGCCCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGT
TCGCGTCTGGCCCCGGCCCCGGCCCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCAGTCGGGCCCC
GGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGAGCGGGCGCTCAA
GAGAGCGCCGAGCAGGGCGGAACAGGGGAGCGGCCAGGAGCCTCTCGTGAACAGTGCAGTGCCTCGG
GGATTTGGGACGTCCCGCGCCGACACCGCGCCGCCAGCGCCAACGGCGCGGCATCAAGAAGCTGTC
CGGGCCTCTGATCTCCGATTTCTCGCCAAGCGCAAGAGATCAGCGCCTGAGAAGTCGTCGGGCGATGTC
CCCGCGCGTGTCCCTCTCCAAGCGCCGCCCTGGCGTGGGCTCGGTGGAGCAGACCCCGCGCAAGAGGC
TGCGG

ACGCGTACCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225428 representing NM_001122631
Red=Cloning site Green=Tags(s)

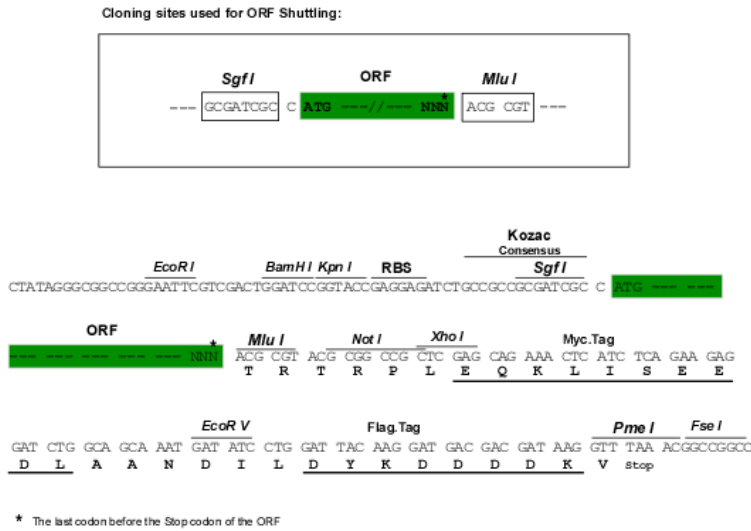
MERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMPLRGPGRQLQWTE
 VDSDSVPAFYRETVQVGRCLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVPVPAPASTPPPV
 PVLAPAPAPAPVAAPVAAPVAVAVLAPAPAPAPAPAPVAAPAPAPAPAPAPAPDAAPQ
 ESAEQGANQGQRQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRKRSAPEKSSGDV
 PAPCPSPAAPGVGSVEQTPRKRLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

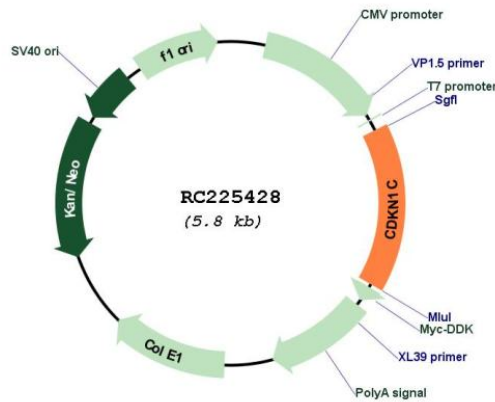
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001122631

ORF Size: 915 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](#)

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_001122631.2](#)

RefSeq ORF: 918 bp

Locus ID: 1028

UniProt ID: [P49918](#)

Cytogenetics: 11p15.4

Protein Families: Druggable Genome

Protein Pathways: Cell cycle

MW: 30.9 kDa

Gene Summary: This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndrome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]