

Product datasheet for **RC209840**

p57 Kip2 (CDKN1C) (NM_000076) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p57 Kip2 (CDKN1C) (NM_000076) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	p57 Kip2
Synonyms:	BWCR; BWS; KIP2; p57; p57Kip2; WBS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209840 representing NM_000076. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCGACGCGTCCCTCCGACGACATCCACGATGGAGCGTCTTGTCCGCCGTGGGACCTCCAGTA
CTAGTGGCACCAGCGCCTGCCGAGCCTCTTCGGGCGGTGGACCACGAGGAGCTGAGCCGCGAGCTG
CAGGCCCGCCTGGCCGAGCTGAACGCCGAGGACCAGAACCCTGGGATTACGACTCCAGCAGGACATG
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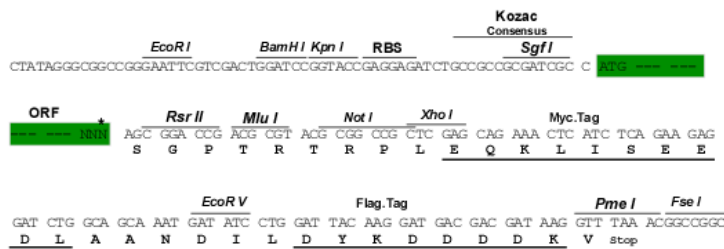
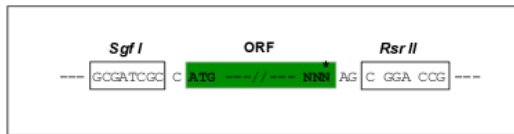
Protein Sequence: >Peptide sequence encoded by RC209840
 Blue=ORF Red=Cloning site Green=Tag(s)

MSDASLRSTSTMERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDM
 PLRGPGRQLQWTEVSDSVPAFYRETQVGRCLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPS
 VPVPAPASTPPPVPVLAPAPAPAPVAAAPVAVAVLAPAPAPAPAPAPVAAAPAPAPAPAPAPA
 PAPAPDAAPQESAEQGANQGRGQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRK
 RSAPEKSSGDVPAPCPSPSAAPGVGSVEQTPRKRLR
 SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_000076

ORF Size: 936 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 Size: 1511 bp

RefSeq ORF: 951 bp

Locus ID: 1028

UniProt ID: [P49918](#)

Cytogenetics: 11p15.4

Domains: CDI

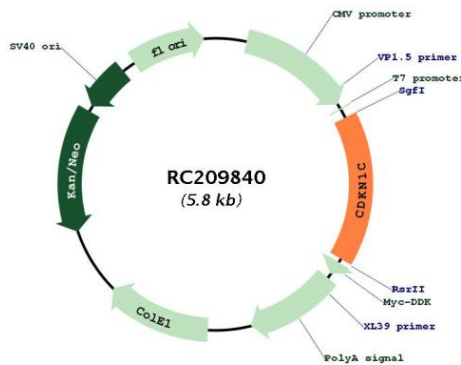
Protein Families: Druggable Genome

Protein Pathways: Cell cycle

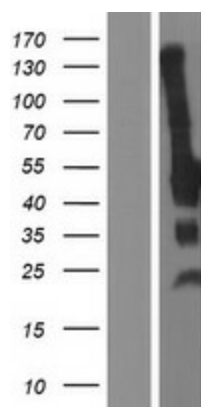
MW: 31.8 kDa

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]

Product images:



Circular map for RC209840



Western blot validation of overexpression lysate (Cat# [LY424941]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209840 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).