

## Product datasheet for **RC401063**

### **p57 Kip2 (CDKN1C) (NM\_000076) Human Mutant ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Mutant ORF Clones
<b>Product Name:</b>	p57 Kip2 (CDKN1C) (NM_000076) Human Mutant ORF Clone
<b>Mutation Description:</b>	L33R
<b>Affected Codon#:</b>	33
<b>Affected NT#:</b>	98
<b>Nucleotide Mutation:</b>	CDKN1C Mutant (L33R), Myc-DDK-tagged ORF clone of Homo sapiens cyclin-dependent kinase inhibitor 1C (p57, Kip2) (CDKN1C), transcript variant 1 as transfection-ready DNA
<b>Effect:</b>	Beckwith-Wiedemann syndrome
<b>Symbol:</b>	p57 Kip2
<b>Synonyms:</b>	BWCR; BWS; KIP2; p57; p57Kip2; WBS
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>Tag:</b>	Myc-DDK
<b>ACCN:</b>	NM_000076
<b>ORF Size:</b>	948 bp
<b>Restriction Sites:</b>	Sgfl-RsrII



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**ORF Nucleotide Sequence:**

>RC401063 representing NM\_000076  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGACGCGTCCCTCCGCAGCACATCCACGATGGAGCGTCTTGTCGCCCGTGGGACCTTCCCAGTAC  
 TAGTGCGCACCAGCGCCTGCCGAGCCGCTTCGGGCCGGTGGACCACGAGGAGCTGAGCCGCGAGCTGCA  
 GGCCCGCTGGCCGAGCTGAACGCCGAGGACCAGAACCCTGGGATTACGACTTCCAGCAGGACATGCCG  
 CTGCGGGGCCCTGGACGCCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCCGCCTTCTACCGCGAGA  
 CGGTGCAGGTGGGGCGCTGCCGCTGCTGCTGGCGCCGCGGCCGTCGCGGTGCGGTGGCTGTAGCC  
 GCCCTCGAGCCGCCGCTGAGTCCCTCGACGGCTCGAGGAGCGCCGAGCAGCTGCCTAGTGTCCC  
 GTCCCGGCCCGCGTCCACCCGCCCCAGTCCCGGTCTGGCTCCAGCCCGGCCCGCTCCGGCTC  
 CGGTGCGGGTCCGGTGCAGGCTCCGGTGCAGGTCGCGGTCTGGCCCGGCCCGGCCCGGCTCCGGC  
 TCCGGTCCGGCCCGGCTCCAGTCCGGCCCGGCCAGCCCGGCCCGGCCCGGCCCGGCCCGGCCCG  
 GCCCGGCCCGGCCCGGACGCGGCGCCTCAAGAGAGCGCCGAGCAGGGCGCAACAGGGGCAGCGCG  
 GCCAGGAGCTCTCGCTGACCAGCTGACTCGGGGATTCGGGACGTCCCGCGGCCGGCACCGCGGCCG  
 CAGCGCAACGGCGCGGCGATCAAGAAGCTGTCCGGGCTCTGATCTCCGATTTCTCGCAAGCGCAAG  
 AGATCAGCGCTGAGAAGTCGTGGGCGATGTCCCGCGCGTGTCCCTCTCAAGCGCCCGCTGGCG  
 TGGGCTCGGTGGAGCAGACCCCGCAAGAGGCTGCGG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC401063 representing NM\_000076  
 Red=Cloning site Green=Tags(s)

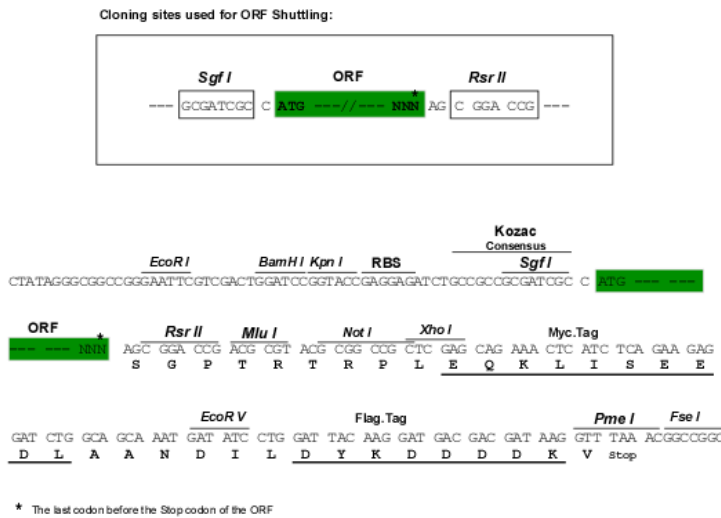
MSDASLRSTSTMERLVARGTFPVLVRTSACRSRFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMP  
 LRGPGRLLQWTEVDSVPAFYRETVQVGRCLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVP  
 VPAPASTPPPVPVLAPAPAPAPVAAPVAAPVAVAVLAPAPAPAPAPAPAPVAAPAPAPAPAPAPAP  
 APAPAPDAAPQESAEQGANQGQRQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRK  
 RSAPEKSSGDVPAPCPSAAPGVGSVEQTPRKRLR

**SGP**TRRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**



**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](mailto: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).

**RefSeq:**

[NP\\_000067](#)

**RefSeq Size:**

948 bp

**RefSeq ORF:**

951 bp

**Locus ID:**

1028

**Cytogenetics:**

11p15.4

**Domains:**

CDI

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Cell cycle

**MW:** 34.8 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]