

## Product datasheet for **RC401068**

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

#### **Product data:**

Product Type:	Mutant ORF Clones
Product Name:	p57 Kip2 (CDKN1C) (NM_000076) Human Mutant ORF Clone
Mutation Description:	Q230X
Affected Codon#:	230
Affected NT#:	688
Nucleotide Mutation:	CDKN1C Mutant (Q230X), Myc-DDK-tagged ORF clone of Homo sapiens cyclin-dependent kinase inhibitor 1C (p57, Kip2) (CDKN1C), transcript variant 1 as transfection-ready DNA
Effect:	Beckwith-Wiedemann syndrome
Symbol:	CDKN1C
Synonyms:	BWCR; BWS; KIP2; p57; p57Kip2; WBS
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_000076
ORF Size:	687 bp
Restriction Sites:	Sgfl-RsrII



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**ORF Nucleotide Sequence:**

>RC401068 representing NM\_000076  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATG**TCCGACGCGTCCCTCCGACGACATCCACGATGGAGCGTCTTGTGCGCCGTTGGGACCTTCCAGTAC**  
 TAGTGCACACAGCGCCTGCCGACGCTCTTCGGGCGGTGGACCACGAGGAGCTGAGCCGCGAGCTGCA  
 GGCCCGCTGGCCGAGCTGAACGCCGAGGACCAGAACCCTGGGATTACGACTTCCAGCAGGACATGCCG  
 CTGCGGGGCCCTGGACGCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCGCGTTCTACCGCAGAG  
 CGGTGCAGGTGGGGCGCTGCCGCTGCTGCTGGCGCCGCGCCGTCGCGGTGCGGTGGCTGTCAGCCC  
 GCCCTCGAGCCGCCGCTGAGTCCCTCGACGGCTCGAGGAGGCGCCGAGCAGCTGCCTAGTGTCCC  
 GTCCCGCCCCGGCGTCCACCCGCCCCAGTCCCGGTCTGGCTCCAGCCCGCCCGGCTCCGGCTC  
 CGGTGCGGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGT  
 TCCGGTCCGGTCCGGTCCAGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGTCCGGT  
 GCCCGGCCCGGCCCGGACGCGGCGCTCAAGAGAGCGCCGAGCAGGCGCGAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC401068 representing NM\_000076  
 Red=Cloning site Green=Tags(s)

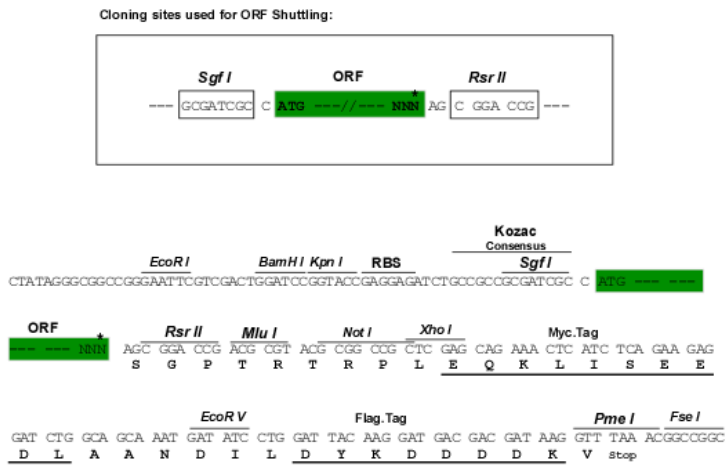
MSDASLRSTMERLVARGTFPVLVRTSACRSLFQVPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMP  
 LRPGRLQWTEVSDSVPAFYRETVQVGRCLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVP  
 VPAPASTPPPVPVLAPAPAPAPVAAPVAAPVAVLAPAPAPAPAPAPVAAPAPAPAPAPAPAPAPAPAP  
 APAPAPDAAPQESAEQGAN

**SGPTRRRLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**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:** 687 bp

**RefSeq ORF:** 951 bp

**Locus ID:** 1028

**Cytogenetics:** 11p15.4

**Domains:** CDI

**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle

**MW:** 25.2 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]