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Product datasheet for RC401069

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:	Q241X
Affected Codon#:	241
Affected NT#:	721
Nucleotide Mutation:	CDKN1C Mutant (Q241X), 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:	720 bp
Restriction Sites:	SgfI-RsrII

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ORF Nucleotide Sequence:

>RC401069 representing NM_000076
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGACGCGTCCCTCCGCAGCACATCCACGATGGAGCGTCTTGTCGCCCGTGGGACCTTCCCAGTAC
TAGTGCGCACCAGCGCCTGCCGCAGCCTCTTCGGGCCGGTGGACCACGAGGAGCTGAGCCGCGAGCTGCA
GGCCCGCCTGGCCGAGCTGAACGCCGAGGACCAGAACCGCTGGGATTACGACTTCCAGCAGGACATGCCG
CTGCGGGGCCCTGGACGCCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCCGCGTTCTACCGCGAGA
CGGTGCAGGTGGGGCGCTGCCGCCTGCTGCTGGCGCCGCGGCCCGTCGCGGTCGCGGTGGCTGTCAGCCC
GCCCCTCGAGCCGGCCGCTGAGTCCCTCGACGGCCTCGAGGAGGCGCCGGAGCAGCTGCCTAGTGTCCCG
GTCCCGGCCCCGGCGTCCACCCCGCCCCCAGTCCCGGTCCTGGCTCCAGCCCCGGCCCCGGCTCCGGCTC
CGGTCGCGGCTCCGGTCGCGGCTCCGGTCGCGGTCGCGGTCCTGGCCCCGGCCCCGGCCCCGGCTCCGGC
TCCGGCTCCGGCCCCGGCTCCAGTCGCGGCCCCGGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCC
GCCCCGGCCCCGGCCCCGGACGCGGCGCCTCAAGAGAGCGCCGAGCAGGGCGCGAACCAGGGGCAGCGCG
GCCAGGAGCCTCTCGCTGAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

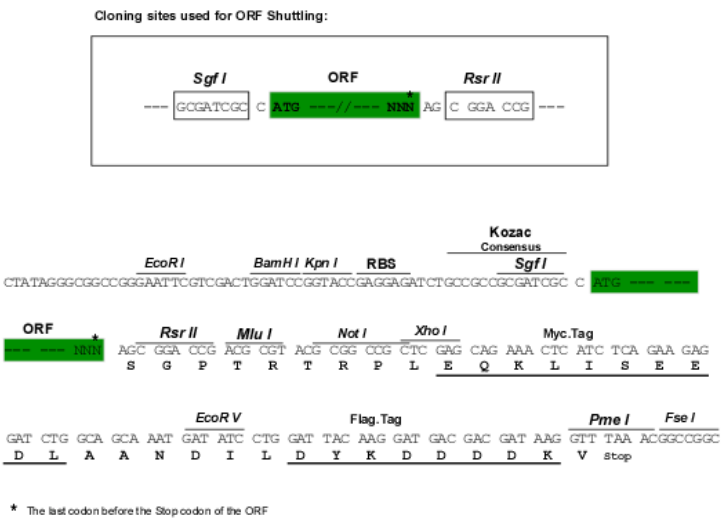
>RC401069 representing NM_000076
Red=Cloning site Green=Tags(s)

MSDASLRSTSTMERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMP
LRGPGRLQWTEVDSDSVPAFYRETVQVGRCRLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVP
VPAPASTPPPVPVLAPAPAPAPAPVAAPVAAPVAVAVLAPAPAPAPAPAPAPAPVAAPAPAPAPAPAPAP
APAPAPDAAPQESAEQGANQGQRGQEPLAD

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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 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:	720 bp
RefSeq ORF:	951 bp
Locus ID:	1028
Cytogenetics:	11p15.4
Domains:	CDI
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
MW:	26.4 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 syndorome, 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]