

Product datasheet for **RC225427**

p57 Kip2 (CDKN1C) (NM_001122630) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p57 Kip2 (CDKN1C) (NM_001122630) 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)



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ORF Nucleotide Sequence:

>RC225427 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001122630, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGAGAGACTGGTGGCTCGGGTACTTTTCCAGTGCTCGTTCGGACTAGCGCATGCCGAAGCCTGTTTG
 GTCCTGTTGATCATGAAGAGCTCAGCCGGGAGCTCCAGGCCGACTGGCTGAGCTGAACGCTGAAGACCA
 GAATCGCTGGGACTACGATTTTCAGCAAGACATGCCGTTGAGAGGCCAGGCAGGTTGCAATGGACAGAG
 GTCGATTCTGATCCGTGCCTTCTATAGGAAACAGTACAAGTGGGACGATGCCGACTGCTGCTGG
 CGCCCCGCCCTGTTGCAGTGGCCGTGGCCGTGAGCCCACCGCTGGAACCCGCCGGAGTCTTGGACGG
 TTTGGAAGAGGCACCCGAGCAGTTCGGTCCGTCGCCCGCCCCGCATCAACCCACCACCTGTT
 CCAGTCTTGGTCCCGCCCCGCACCCGCCAGCCCCGGTTCAGCCCCCGTGGCCGCTCCGGTCGCAG
 TAGCTGTGTTGGCCCTGCCAGCCCCAGCTCCAGCCCCGCACCCGCTCCGGCCCCGGTGGCCGCGCC
 AGCACCCGCCCGGCACCCGCCAGCCCCGGCCCCAGCCCCGCGCCAGCGCTGATGCCGCCCCCCAG
 GAGAGCGCGAACAAGGCGCAACCAGGGACAGAGGGTCAAGGAGCCTCTCGTGATCAACTTCATAGCG
 GTATTTCTGGCCGCCCGCCCGGTACAGCCGCTGCTAGTGCTAATGGTGTGCCATCAAGAACTGTC
 CGGGCCACTGATCAGCGATTTCTTCGCCAAGAGAAAAGATCTGCTCCAGAGAAGAGTAGCGGGGACGTG
 CCTGCACCTGCCCGTCCCCCTCCGCTGCCAGGTGTCGGCTCTGTGGAACAGACTCCTCGGAAGAGAC
 TTAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225427 representing NM_001122630
 Red=Cloning site Green=Tags(s)

MERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMPLRGPGRLLQWTE
 VSDSVPAFYRETVQVGRCLLLAPRPVAVAVVSPPLEPAAESLDGLEEAPEQLPSVPVPAPASTPPPV
 PVLAPAPAPAPVAAPVAAPVAVLAPAPAPAPAPAPVAAPAPAPAPAPAPAPDAAPQ
 ESAEQGANQGRGQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRKRSAPEKSSGDV
 PAPCPSPSAAPGVGSVEQTPRKRLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001122630

ORF Size: 915 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: [NM_001122630.1](#), [NP_001116102.1](#)

RefSeq Size: 1776 bp

RefSeq ORF: 918 bp

Locus ID: 1028

UniProt ID: [P49918](#)

Cytogenetics: 11p15.4

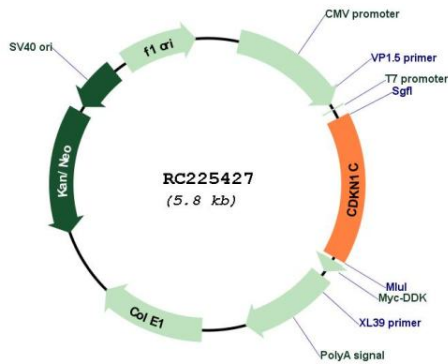
Protein Families: Druggable Genome

Protein Pathways: Cell cycle

MW: 31 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 RC225427