

Product datasheet for **RC402693**

p27 KIP 1 (CDKN1B) (NM_004064) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	p27 KIP 1 (CDKN1B) (NM_004064) Human Mutant ORF Clone
Mutation Description:	I119T
Affected Codon#:	119
Affected NT#:	356
Nucleotide Mutation:	CDKN1B Mutant (I119T), Myc-DDK-tagged ORF clone of Homo sapiens cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B) as transfection-ready DNA
Effect:	Myeloproliferative syndrome
Symbol:	p27 KIP 1
Synonyms:	CDKN4; KIP1; MEN1B; MEN4; P27KIP1
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_004064
ORF Size:	594 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC402693 representing NM_004064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCAAACGTGCGAGTGTCTAACGGGAGCCCTAGCCTGGAGCGGATGGACGCCAGCGAGCGGGAGCACC
 CCAAGCCCTCGGCCTGCAGGAACCTCTTCGGCCCGGTGGACCAGGAAGAGTTAACCCGGGACTTGAGAA
 GCACTGCAGAGACATGGAAGAGCGAGCCAGCGCAAGTGAATTTTCGATTTTCAGAATCACAAACCCTA
 GAGGGCAAGTACGAGTGGCAAGAGGTGGAGAAGGGCAGCTTGCCTCGAGTTCTACTACAGACCCCCGCGC
 CCCCCAAAGTGCCTGCAAGGTGCCGGCGCAGGAGAGCCAGGATGTGAGCGGGAGCCGCCGGCGCGCC
 TTTAACTGGGGCTCCGGCTAACTCTGAGGACACGCATTTGGTGGACCCAAAGACTGATCCGTCGGACAGC
 CAGACGGGTTAGCGGAGCAATGCGCAGGAATAAGGAAGCGACCTGCAACCGACGATTCTCTACTCAA
 ACAAAGACCCAACAGAACAGAAGAAAATGTTTCAGACGGTCCCAAATGCCGGTTCTGTGGAGCAGAC
 GCCAAGAAGCCTGGCCCTCAGAAGACGTCAAAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402693 representing NM_004064
 Red=Cloning site Green=Tags(s)

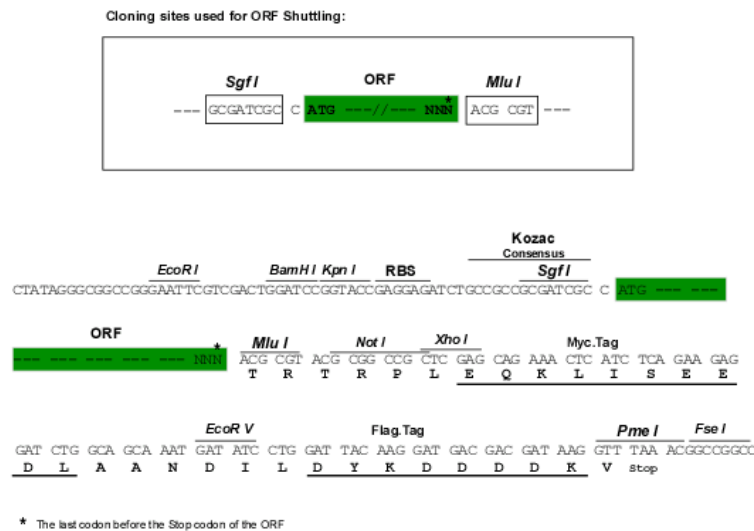
MSNVRVSNGPSLERMDARQAEHPKPSACRNLFGPVDHEELTRDLEKHCRCMEEASQRKWNDFDQNHKPL
 EGKYEWEVEKGSLEPEFYRPPRPPKACKVPAQESQDVSGSRPAAPLTGAPANSEDLHLVDPKTDPSDS
 QTGLAEQCAGIRKRPATDSSSTQNKRANRTEENVSDGSPNAGSVEQTPKKPGLRRRQT

SGPTRRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



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).
RefSeq:	NP_004055
RefSeq Size:	594 bp
RefSeq ORF:	597 bp
Locus ID:	1027
Cytogenetics:	12p13.1
Domains:	CDI
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer
MW:	21.8 kDa
Gene Summary:	This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]