

## Product datasheet for RC201661

### p27 KIP 1 (CDKN1B) (NM\_004064) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** p27 KIP 1 (CDKN1B) (NM\_004064) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** p27 KIP 1  
**Synonyms:** CDKN4; KIP1; MEN1B; MEN4; P27KIP1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201661 representing NM\_004064  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCAAACGTGCGAGTGTCTAACGGGAGCCCTAGCCTGGAGCGGATGGACGCCAGGCAGGCGGAGCACC  
 CCAAGCCCTCGGCTGCAGGAACCTCTTCGGCCCGGTGGACCACGAAGAGTTAACCCGGGACTTGGAGAA  
 GCACTGCAGAGACATGGAAGAGGCGAGCCAGCGCAAGTGAATTTGATTTTCAGAATCACAAACCCCTA  
 GAGGGCAAGTACGAGTGGCAAGAGGTGGAGAAGGGCAGCTTGCCCGAGTTCTACTACAGACCCCCGCGGC  
 CCCCCAAAGGTGCTGCAAGGTGCCGGCGCAGGAGAGCCAGGATGTCAGCGGGAGCCGCCGGCGCGGCC  
 TTTAATTGGGGCTCCGGCTAACTCTGAGGACACGCATTTGGTGGACCCAAAGACTGATCCGTCGGACAGC  
 CAGACGGGGTTAGCGGAGCAATGCGCAGGAATAAGGAAGCGACCTGCAACCGACGATTCTTCTACTCAAA  
 ACAAAAAGAGCCAACAGAACAGAGAAAATGTTTCAGACGGTTCGCCAAATGCCGGTTCTGTGGAGCAGAC  
 GCCCAAGAAGCCTGGCCTCAGAAGACGTCAAACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201661 representing NM\_004064  
 Red=Cloning site Green=Tags(s)

MSNVRVSNGPSLERMDARQAEHPKPSACRNLFGPVDHEELTRDLEKHCRDMEEASQRKWNFDQNHKPL  
 EGKYEQVEVEKGSLEPEFYRPPRPPKACKVPAQESQDVSGSRPAAPLIGAPANSEDTLHVDPKTDPSSD  
 QTGLAEQCAGIRKRPATDDSSSTQNKRANRTEENVSDGSPNAGSVEQTPKKPGLRRRQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_004064.5](#)

**RefSeq Size:** 2422 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 1027

**UniProt ID:** [P46527](#)

**Cytogenetics:** 12p13.1

**Domains:** CDI

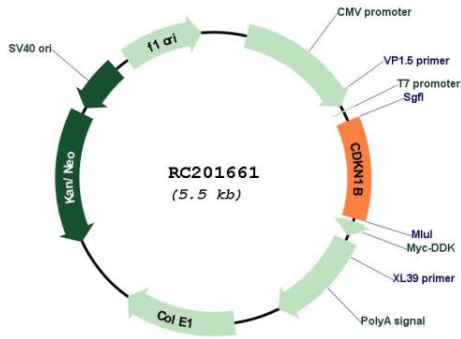
**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

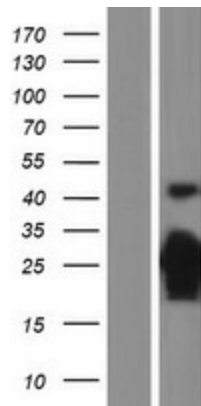
**MW:** 21.9 kDa

**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]

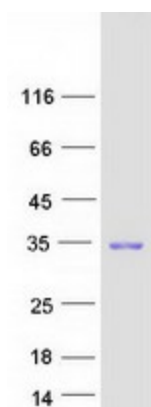
Product images:



Circular map for RC201661



Western blot validation of overexpression lysate (Cat# [LY401318]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201661 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDKN1B protein (Cat# [TP301661]). The protein was produced from HEK293T cells transfected with CDKN1B cDNA clone (Cat# RC201661) using MegaTran 2.0 (Cat# [TT210002]).