

Product datasheet for **SC117607**

p27 KIP 1 (CDKN1B) (NM_004064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p27 KIP 1 (CDKN1B) (NM_004064) Human Untagged Clone
Tag:	Tag Free
Symbol:	p27 KIP 1
Synonyms:	CDKN4; KIP1; MEN1B; MEN4; P27KIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004064 edited
GAATTCGCATATTGGGCCACTAAAAAAGGGGCTCGTCTTTTCGGGGTGTTCCTCCCCCTCCCCTG
TCCCCGCTTGCTCACGGCTCTGCGACTCCGACGCCGGCAAGGTTGGAGAGCGGCTGGGTTCCGGGGACC
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CCAGGATGTCAGCGGGAGCCGCCCGCGGCGCCTTTAATTGGGGCTCCGGCTAATCTGAGGACACGCAT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004064 unedited
TCTTTCCCGCCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
CAGAGCTCGTTTGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCG
AATTCGGCACGAGGGGCCACTAAAAAGGGGGCTCGTCTTTTCGGGGTGTTTTTCTCCC
CCTCCCCTGTCCCGCTTGTCTACGGCTCTGCGACTCCGACCGCGCAAGGTTTGGAGAG
CGGCTGGGTTTCGGGGACCCGCGGGCTTGACCCGCCAGACTCGGACGGGCTTTGCCAC
CCTCTCCGCTTGCCTGGTCCCCTCTCCTCTCCGCCCTCCCGCTCGCCAGTCCATTTGATC
AGCGGAGACTCGGCGGCCGGGCGGGGCTTCCCGCAGCCCTGCGCGCTCCTAGAGCTC
GGCCCGTGGCTCGTGGGGTCTGTGTCTTTTGGCTCCGAGGGCAGTCTGGGCTTCCGA
GAGGGGTTTCGGGCTGCGTAGGGGCGCTTTGTTTTGTTTCGGTTTTGTTTTTTGAGAGTGC
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GGAACCTCTTCGGCCCGTGGACCACGAAGAGTTAACCCGGGACTTGAGAAGCACTGCA
GAGACATGGAAGAGGCGAGCCAGCGCAAGTGAATTTTCGATTTTCAGAATCACAAACCC
TAGAGGGCAAGTACGAGTGGCAAGAGGTGGAGAAGGGCANCTTGCCCGATTCTACTACAG
ACCCCGCGGCCCCCAAGTGCCTGCCAGGTGCCCGCGCAGANAGCANGATGTCAGCG
GGAGCCGCCCGNCGGCCCTTTATTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004064 unedited
GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGCTATGGAAGTTTTCTTTAT
TGATTACTTAATGTGAACAATAATTGGCATCTTTTTACACATTACAAAAATTATACT
TGGCTCAGTATGCAACCTTTTAAGCATAGCCATATTATTTAACAAAAGAGGGGAAAACCT
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GAGTTATGTACACAGGTACACTTCAAAATGGTTTTTCCATACACAGGCAATGAAATACTGT
TTAAAGATGTAGTATCCATTTCACTTATCCTACAAGTGTGCTTTTCTCTACATGAACCTT
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GCCCAACTACCTGGAGTGATCACCATTCTGCTGAGTAANTAACCTGGTAAATCCAACCT
TAGAGAGACTGGNGAGGGCAGTGGAGTATGTTTTCTGNTGCTTTTTTAAAAAGCCACATG
CAGCTATCTACAAAATTTAGATAGCTTGGGAGATCACCAAATCTTCAAATGAGAATAA
AACTCCTGAAAAATAAATAGCAATTATCTTTAGCCACGGGTCCAAATTTTGGGGATTTT
TTTAAATGAAAGATCAGCTGTCTCTGGAAGGGGACTTACATTCTTTAAGAAACCATTCAA
ACCCTTTCCAAAATGCTTCCCTCTGCAAGACAAATTTATTTATTGCTGGAATAAAGC
AGCCTTATACCCGCTCCGAGGAGTCTTACGCCCCCTGCCTCCTTCAAAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_004064

Insert Size:

597 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_004064.2 , NP_004055.1
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
Gene Summary:	<p>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]</p>