

## Product datasheet for **SC215245**

### **p21 (CDKN1A) (NM\_000389) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	p21 (CDKN1A) (NM_000389) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CDKN1A
Synonyms:	CAP20; CDKN1; CIP1; MDA-6; P21; p21CIP1; SDI1; WAF1
ACCN:	NM_000389
Insert Size:	1562 bp



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**Insert Sequence:** >SC215245 3'UTR clone of NM\_000389  
 The sequence shown below is from the reference sequence of NM\_000389. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CGGCTGATCTTCTCCAAGAGGAAGCCCTAATCCGCCACAGGAAGCCTGCAGTCCTGGAAGCGCAGGG
CCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTGTGTTTT
AATTTAAACACCTCCTCATGTACATACCCTGGCCGCCCTGCCCCAGCCTCTGGCATTAGAATTAT
TTAAACAAAACTAGGCGGTTGAATGAGAGGTTCTAAGAGTGCTGGGCATTTTTATTTTATGAAATAC
TATTTAAAGCCTCCTCATCCCGTGTCTCTTTTCTCTCTCCCGGAGGTTGGTGGGCCGGCTTCATG
CCAGCTACTTCTCTCCCACTTGTCCGCTGGTGGTACCCTCTGGAGGGGTGGTCTCTCCATC
GCTGTCACAGGCGGTTATGAAATTCACCCCTTTCTGGACTCAGACCTGAATCTTTTTCATTTGA
GAAGTAAACAGATGGCACTTTGAAGGGCCTCACCGAGTGGGGCATCATAAAACTTTGGAGTCCCC
TACCTCTCTAAGGTTGGGCAGGGTGACCCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGGACCTGG
TACCCTCTGGCTCTTGATACCCCTCTGTCTTGTAAGGCAGGGGAAGGTGGGGTCTGGAGCAGA
CCACCCGCTGCCCTCATGGCCCTCTGACCTGCACTGGGAGCCCGTCTCAGTGTGAGCCTTTTCC
CTCTTTGGCTCCCTGTACCTTTTGAGGAGCCCGACTACCCTTTTTCTCCAGCTGGGCTCTGCAATTC
CCCTCTGTGTGCTCCCTCCCCCTTGTCTTTCCCTTTCAGTACCCTCTCAGCTCCAGGTGGCTCTGAGG
TGCTGTCCCACCCCAACCCAGCTCAATGGACTGGAAGGGGAAGGGACACACAAGAAGAAGGGCACC
CTAGTTCTACCTCAGGCAGCTCAAGCAGCGACCGCCCTCCTCTAGCTGTGGGGGTGAGGTCCCATG
TGGTGGCACAGGCCCTTGGTGGGTTATCTCTGTGTTAGGGGTATATGATGGGGGAGTAGATCTTT
CTAGGAGGGAGACTGGCCCTCAAATCGTCCAGCGACCTTCTCATCCACCCATCCCTCCCGAGTT
CATTGCACCTTTGATTAGCAGCGGAACAAGGAGTCAAGACATTTTAAGATGGTGGCAGTAGAGGCTATGGA
CAGGGCATGCCACGTGGGCTCATATGGGCTGGGAGTAGTTGTCTTCTGGCACTAACGTTGAGCCCC
TGGAGGCACTGAAGTGCTTAGTGTACTGGAGTATTGGGGTGTGACCCCAACACCTTCCAGCTCCTGT
AACATACTGGCTGGACTGTTTTCTCTCGGCTCCCATGTGTCTGGTCCCGTTTCTCCACCTAGACT
GTAAACCTCTCGAGGGCAGGGACCACACCTGTACTGTTCTGTGTCTTTCACAGCTCTCCACAATGC
TGAATATACAGCAGGTGCTCAATAAATGATTCTTAGTACTTTA
ACGCGTAAAGCGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000389.5](#)

**Summary:**

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene. [provided by RefSeq, Sep 2015]

**Locus ID:**

1026

**MW:**

57.1