

Product datasheet for **SC319536**

p15 INK4b (CDKN2B) (NM_004936) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p15 INK4b (CDKN2B) (NM_004936) Human Untagged Clone
Tag:	Tag Free
Symbol:	p15 INK4b
Synonyms:	CDK4I; INK4B; MTS2; P15; p15INK4b; TP15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004936.3
 GTGAGGACTCCGCGACGCGTCCGCACCCTGCGGCCAGAGCGGCTTTGAGCTCGGCTGCGT
 CCGCGCTAGGCGCTTTTTCCAGAAGCAATCCAGGCGCGCCCGCTGGTCTTGAGCGCCA
 GGAAAAGCCCGGAGCTAACGACCCGGCCGCTCGGCCACTGCACGGGGCCCCAAGCCGAGA
 AGGACGACGGGAGGGTAATGAAGCTGAGCCAGGTCTCTAGGAAGGAGAGAGTGCGCCG
 GAGCAGCGTGGAAAAGAAGGAAGAGTGTCTTAAGTTTACGGCCAACGGTGGATTATCC
 GGGCCGCTGCGCGTCTGGGGCTGCGGAATGCGCGAGGAGAACAAGGGCATGCCAGTGG
 GGGCGGACGCGATGAGGGTCTGGCCAGCGCCGCGCGGGGACTAGTGGAGAAGGTGCC
 ACAGCTCTGGAAGCCGCGCGGATCCCAACGGAGTCAACCGTTTCGGGAGGCGCGCAT
 CCAGGTATGATGATGGGCAGCGCCCGCTGGCGGAGCTGCTGCTGCCACGGCGCGGA
 GCCCAACTGCGCAGACCTGCCACTCTACCCGACCGGTGCATGATGCTGCCCGGAGGG
 CTTCTGGACACGCTGGTGGTGTGCACCGGGCCGGGCGCGGCTGGACGTGCGCGATGC
 CTGGGGTCTGCTGCCGTGGACTTGGCCGAGGAGCGGGGCCACCGCGACGTTGCAGGTA
 CCTGCGCACAGCCACGGGGACTGACGCCAGGTTCCCAAGCCGCCACAACGACTTTATT
 TTCTTACCAATTTCCACCCCCACCACTAATTCGATGAAGGCTGCCAACGGGGAGCG
 GCGAAAAGCCTGTAAAGCTGCAAGCCTGTCTGAGACTCACAGGAAGGAGAGCCGACCG
 GAATAACCTTCCATACATTTTTTTCTTTGTCTTATCTGGCCCTCGACACTCACCATGAAG
 CGAAACACAGAGAAGCGGATTTCCAGGGATATTTAGGAGTGTGTGACATTCAGGGGTCG
 TTTGCTTTTACGGGTTTTCTGAGGGAAAGTGCATATGAAATCCTTGACTGGACCTGGTGG
 CTACGAATCTCCGATGGATGAATCTCCCACTCCAGCGCTGAGTGGGAGAAGGCAGTGAT
 TAGCACTTGGGTGACGGCAGTCGATGCGTTCACCTCAATGTCTGCTGAGGAGTTATGGTG
 AACCCACAACCTTAGGCCCTAGCGGCAGAAAGGAAAACCTGAAGACTGAGGACAAAGTGA
 GGAGGGCCGAGGTGGGCTTCAAGTAAAGTCCCGCGCGCTTTAGTTTGGCGCATGGCAA
 GTCACATGCGTAAACGACACTCTCTGGAAGCCCTGGAGACCCTCGCCCAACTCCACCAGA
 TAGCAGAGGGGTAAAGAGAGGATGTGCAAGCGACGACAGATGCTAAAATCCTGGATCACG
 ACGCTGCAGAGCACCTTTGCACAGGATGCTGGCCTTTGCTCTTACTACTGAGGAGAGA
 TTCCCGCGGGTCCGCGAGGACTACACAGGATGAGGTGGTGGAGTGGAGTGGAGGAA
 TTGTAACGGTTAACTGTAACGTTTTCTTTCACACACACACACACACACACACACACAC
 ATGCTAGGATGCGGAAATCCCCTTATGACTTGCTACTTTTTGATTTTGTGATATTTGTA
 CTTTTTAGTTGTTGAGCAACTGTCTTATTTAATGGGAGATTTTAAAGTAACTAAGT
 GGCTCTCAGTTAAATGTGAGGAAGAACTACAGCTCTTAAATGTAGCAATGGCACTGTTG
 CAAACTCAGTGCAAACGCTAGATTGCTTCTTCTTAACTATTTATTTCTTTGTTAAAT
 TTTTCTGATTGTTTCTTTATAGAGTGTCTCAGGGTGCAGAGGTGAGACTAAGAAATATT
 CCAATGTCTTTTAGAAGATAGATGCACTTATGCAGTAAATATCTTGGGATAGTTCCCA
 AAAGATTGCTGAAAAAGTAGATTGAGTATAAAAACTTGAAAAATATGATGGCTCGTGGG
 ATGCTCTACTATCACTGAACAACTAAAGGTGCACTGCTTTGGGATTTAATTTCCAGGGT
 TGCTTGATCATTATCATTGGAACAACTGATACTTCACTACTTAATAAAGAATTAACA
 GAGATTGAACTCCAAGAGGTGGGTAATTTGGTTTTAAAAATACATGTTTATGGGTTTACCA
 CTAACCTCTGAGAAATGTTAAAGGTTACAGGGTTCCTTCTCTCAATGTTTGTAAATAA
 TTGCTCATAAGCAATACCAGCAATTCATAAAAACTGCTTACTTATGCCATAGAAAATTA
 ACACAAAGTGTATACATGTAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_004936

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_004936.3 , NP_004927.2
RefSeq Size:	3878 bp
RefSeq ORF:	417 bp
Locus ID:	1030
UniProt ID:	P42772
Cytogenetics:	9p21.3
Domains:	ANK
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway
Gene Summary:	<p>This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>