

Product datasheet for **SC107906**

p18 INK4c (CDKN2C) (NM_001262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p18 INK4c (CDKN2C) (NM_001262) Human Untagged Clone
Tag:	Tag Free
Symbol:	p18 INK4c
Synonyms:	INK4C; p18; p18-INK4C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107906 sequence for NM_001262 edited (data generated by NextGen Sequencing)

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ATGGCCGAGCCTTGGGGGAACGAGTTGGCGTCCGAGCTGCCAGGGGGACCTAGAGCAA  
CTTACTAGTTTGTGCAAATAATGTAAACGTCAATGCACAAAATGGATTTGGAAGGACT  
GCGCTGCAGGTTATGAACTTGGAAATCCCGAGATTGCCAGGAGACTGCTACTTAGAGGT  
GCTAATCCCGATTTGAAAGACCGAACTGGTTTCGCTGTCATTCATGATGCGGCCAGAGCA  
GGTTTCTGGACACTTTACAGACTTTGCTGGAGTTTCAAGCTGATGTTAACATCGAGGAT  
AATGAAGGGAACCTGCCCTTGCACCTGGCTGCCAAGAAGGCCACCTCCGGGTGGTGGAG  
TTCCTGGTGAAGCACACGCCAGCAATGTGGGCATCGGAACCATAAGGGGGACACCGCC  
TGTGATTTGCCAGGCTCTATGGGAGGAATGAGGTTGTTAGCCTGATGCAGGCAAACGGG  
GCTGGGGGAGCCACAAATCTTCAATAA
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Clone variation with respect to NM_001262.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001262 unedited NNNNGGGAGANCNNACCCCTCCCCCCCCCGGTTTCAGAAATTTGTNATACGACTCACT ATAGGCGGCCGCGCATCACTCTCCTTCTCGGGCTGCCGGGAGTCCCAGGACCTGGCG GGGCCGGCATGACGGGCTTCTCGGGGGCCCGCCGACGCCGGCAGCCTCCGGAGACGCG CGCCGAGCCCGGCTCCCACGGCTCTGAGGCTCGGCGGGCTGCGGCTGCCTGGCGGGCG GGCTCCGGAGCTTCTCTGAGCGGCATTAGCCCACGGCTTGGCCCGGACGCGACCAAGGC TCTTCTGGAGAAGCCCAGAGCACTGGGCAATCGTTACGACCTGTAACCTTGAGGGCCACCG AACTGCTACTCCCGTTCGCCTTTGGCGATCATCTTTAAACCCTCCGGAGCACGTACGAT CCAGCCACCGCGCGCTCTCCAGCAGCGGAGGACCCAGGACTATCCCTTCGCGGAGACG GATGGAACCCGAGCCCCCTGGAGGACCTGCCCTGCAGTTCTGCCTCACACGGCTCAAGT CACCACCGTGAACAAGGGACCCTAAAGAATGGCCGAGCCTTGGGGGAACGAGTTGGCGTC CGCAGCTGCCAGGGGGACCTAGAGCACTTACTANGTTTGGTGCANAATAATGTAAACG TCAATGCACAAAATGGATNTGGAAGGACTGCGCTGCAGTTATGAAACTTGAAAATCCCG AGATTGCCAGGAGACTGCTACTTTANAGGTGCTAAATCCCGATTTGAAAGACCGAACTGG GTTTCGCTGTTCATGATGCGGGCANAGCAGTTTCCCTGGACACTTACAGACCTTG CTGGGAGTTTCAAGCTGATGGTAACCTCGAGGATAATGGAAGGGAACCTGCCCTGCACT TGCTGCCAAAGAAGCCACTCCGGCTGGGGGGAGGTCCCTGTGGAACC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001262 unedited NNGGGTTTACTATGNACCGCGCCGAATCTANGATCGGTTTTTTTTTTTTTTTTTCTG TTTTGAAGTGTTTAATTAGACAAAAGCATCAGGACAAACCATTTTAAAAACAAAGTCTT CAACTTGGGTGTTGAGATTGGCAAAGGGGAAGCAAGGGAAAAGCAAGGAAAGATAAAA TATTCAGAAGAAAGTCAAAGTTATCTGCAATTACATGTTAGAACAGATTTTGCAGTTAA AAAGATGTTGCTTAAATATATTCATAAGCCTGTTGTAAGATTTTCACTTATGCAGTTTCA GAAAATTTAGCTGCTTAACATATGACAGAACTGTATTTTAAACAAATGACATTTAAAGTCA GGAGAGCTACTCAGTTAATTGATAAAGTAGAGGCAACGTGGGGGAGCCCTCCCCACGTTT ATTGAAGATTTGTGGCTCCCCAGCCCCGTTTGCCTGCATCAGGTAACAACCTCATTCC TCCCATAGAGCCTGGCCAAATCACAGGCGGTGTCCCCCTATGGTTCCGATGCCCCACAT TGCTGGCCGTGTGCTTACCAGGAACTCCACCACCCGGAGGTGGCCTTCTTTGGCAGCCA AGTGCAAGGGCAGGTTCCCTTCATTATCCTCGATGTTAACATCAGCTTGAACCTCCAGCA AAGTCTGTAAGTGTCCAGGAAACCTGCTCTGGCCGCATCATGAATGACAGCGAAACCCAG TTCGGTCTTTCAAATCGGGATTAGCACCTCTAAGTAGCAGTCTCCTGGGCATCTCGGGAT TTCCAAGTTTTATAACCTGCAGCGCAGTCTTCCAATCCATTTTGTGCATTGACGTTTA CATTATTTTGCAACAACTAGTAAGTTGCTCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001262
Insert Size:	1500 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_001262.2 , NP_001253.1
RefSeq Size:	2104 bp
RefSeq ORF:	507 bp
Locus ID:	1031
UniProt ID:	P42773
Cytogenetics:	1p32.3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
Gene Summary:	<p>The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. Ectopic expression of this gene was shown to suppress the growth of human cells in a manner that appears to correlate with the presence of a wild-type RB1 function. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode an identical protein, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) contains a different 5' UTR region, and encodes an identical protein, when compared to variant 2.</p>