

Product datasheet for **MC204612**

Cdkn2a (NM_009877) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdkn2a (NM_009877) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdkn2a
Synonyms:	Arf; ARF-INK4a; INK4a-ARF; Ink4a/Arf; MTS1; p16; p16(INK4a); p16INK4a; p19 p19ARF; Pctr1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058190 GTACAGCAGCGGGAGCATGGGTCGCAGGTTCTTGGTCACTGTGAGGATTCAGCGCGGGGCCCCACTC CAAGAGAGGGTTTTCTTGGTGAAGTTCGTGCGATCCCGGAGACCCAGGACAGCGAGCTGCGCTCTGGCTT TCGTGAACATGTTGTTGAGGCTAGAGAGGATCTTGAGAAGAGGGCCGACCGGAATCCTGGACCAGGTGA TGATGATGGGCAACGTTACGTAGCAGCTTCTGCTCAACTACGGTGCAGATTGCAACTGCGAGGACCC CACTACCTTCTCCGCCCCGGTGCACGACGACGCGCGGGAAGGCTTCTGGACACGCTGGTGGTGTGCAC GGGTGAGGGGCTCGGCTGGATGTGCGCGATGCCTGGGTGCGCTGCCGCTCGACTGGCCCAAGAGCGGG GACATCAAGACATCGTGCATATTTGCGTTCGCTGGGTGCTCTTTGTGTTCCGCTGGGTGGTCTTTGTG TACCGCTGGGAACGTCGCCAGACCGACGGGCATAGCTTCAGCTCAAGCACGCCAGGGCCCTGAACTT CGCGCCAATCCCAAGAGCAGAGCTAAATCCGGCCTCAGCCGCTTTTTCTTCTTAGCTTCACTTCTAG CGATGCTAGCGTGTCTAGCATGTGGCTTAAAAAATACATAATAATGCTTTTTTTTTGCAATCACGGGAG GGAGCAGAGGGAGGGAGCAGAAGGAGGGAGGGAGGGAGGGACCTGGACAGGAAAGGAATGGCATGA GAAACTGAGCGAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_009877
Insert Size:	510 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).



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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.

RefSeq: [BC058190](#), [AAH58190](#)

RefSeq Size: 783 bp

RefSeq ORF: 510 bp

Locus ID: 12578

UniProt ID: [Q64364](#)

Cytogenetics: 4 42.15 cM

Gene Summary: Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1, also known as p19ARF) and contains an alternate open reading frame (ARF), when compared to variant 2. Transcripts 1 and 2, encoding p19ARF and p16INK4a, have distinct first exons which contain the translation start codon, and share a common second exon, which is translated in different reading frames. Thus, the p19ARF protein encoded by this variant (1) lacks sequence similarity to the protein product of variant 2 (p16INK4a).