

## Product datasheet for **RR206819**

### Cdkn2a (NM\_031550) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdkn2a (NM\_031550) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cdkn2a  
**Synonyms:** Arf; INK4A; MTS1; p16; p16Cdkn2a; p19ARF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR206819 representing NM\_031550  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGTCTCTGCAGATAGACTAGCCAGGGCAGCGGCCCTGGGCCGTGAGCAGGAGGTGCGGGCACTGC  
 TGGAGCCGGGGCTTACCAAACGCCCCGAACACTTTCGGTCGTACCCCGATACAGGTGATGATGATGGG  
 CAACGTCAAAGTGGCAGCTCTCTGCTCTCTATGGTGCAGATTCGAAGTGCAGGACCCACCACCCTC  
 TCCCGACCGGTGCAGCAGCGAGCGGGAGGGCTTCTAGACACTCTGGTAGTACTGCACCAGGCAGGGG  
 CGCGGCTGGATGTGCGCATGCCTGGGGTCGCCTGCCGCTCGACCTGGCCCTAGAGCGGGGACATCACGA  
 CGTCGTGCGGATTTGCGGTATCTACTCTCTCCGCTGGGAACGTTTCCCGGGTACCGACAGGCATAAC  
 TTCTGCTCAAGCAGCCAGGTGCTTAGGACTTCGAGGCCAACCCCAAAGCAGCGCTTCTGCTCAAGCA  
 CGCCAGGTGCCTAGGACTTCGAGGCCAACCCCAAAGCAGCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR206819 representing NM\_031550  
 Red=Cloning site Green=Tags(s)

MESSADRLARAAALGREHEVRALLEAGASPNAPNTFGRTPIQVMMGNVKAALLLSYGADSNCEDPTTL  
 SRPVHDAAREGFLDTLVVLHQAGARLDVRDAWGRLPLDLALERGHHDVRYLRLLSSAGNVSRTVDRHN  
 FCSSTPRCLGLRGQPPKQRFCSSTPRCLGLRGQPPKQR

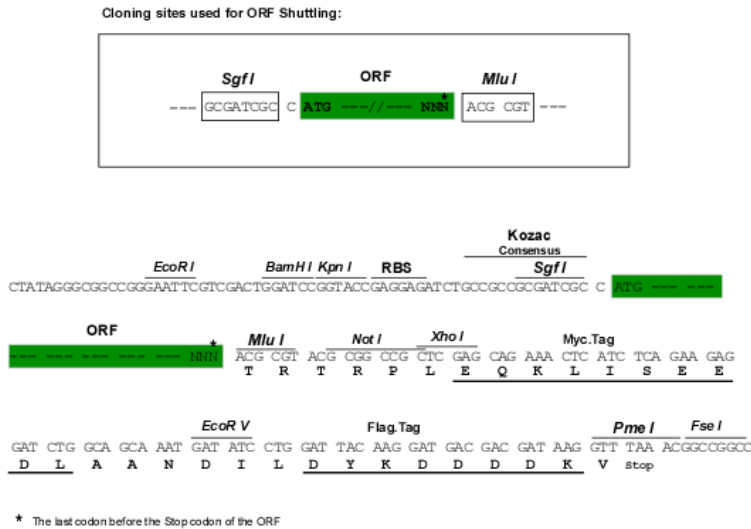
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1439\\_d08.zip](https://cdn.origene.com/chromatograms/ja1439_d08.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_031550

ORF Size: 477 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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 Size: 707 bp

RefSeq ORF: 480 bp

Locus ID: 25163

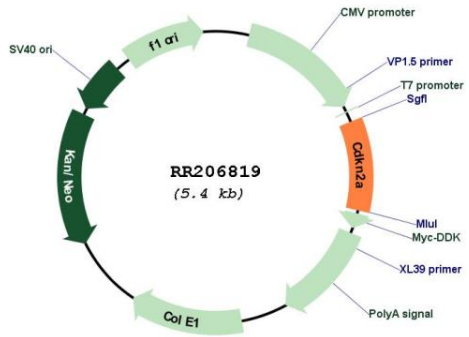
UniProt ID: [Q9R0Z3](#)

Cytogenetics: 5q32

**MW:** 17.4 kDa

**Gene Summary:** tumor suppressor that inhibits CDK4; inactivation or loss is associated with cellular transformation; may be involved in CNS degeneration following injury [RGD, Feb 2006]

**Product images:**



Circular map for RR206819