

# Product datasheet for RR209648

### Cdkn1a (NM\_080782) Rat Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

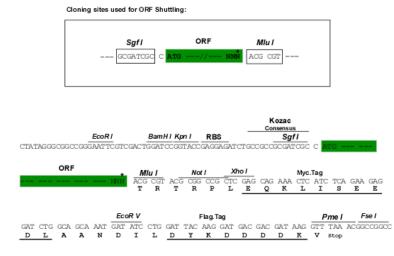
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Cdkn1a (NM_080782) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkn1a
Synonyms:	Cip1; UV96; Waf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RR209648 representing NM_080782 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCGATCCTGGTGATGTCCGACCTGTTCCACACAGGAGCAAAGTATGCCGTCGTCTGTTCGGTCCCG TGGACAGTGAGCAGTTGAGCCGCGATTGCGATGCGCTCATGGCGAGCTGTCTCCAGGAGGCCCGAGAACG GTGGAACTTTGACTTCGCCACTGAGACGCCACTGGAGGGCAACTACGTCTGGGAGCGTGTTCGGAGCCCA GGGCTGCCCAAGATCTACCTGAGCCCTGGGTCCCGCCGCCGTGATGACCTGGGAGGGGACAAGAGGCCCA GTACCTCCTCGGCCCTGCTGCAGGGGCCAGGCCA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RR209648 representing NM_080782 <mark>Red=</mark> Cloning site Green=Tags(s)
	MSDPGDVRPVPHRSKVCRRLFGPVDSEQLSRDCDALMASCLQEARERWNFDFATETPLEGNYVWERVRSP GLPKIYLSPGSRRRDDLGGDKRPSTSSALLQGPGPAPEDHVALSLSCTLVSHAPERPEDSPGGTGTSQGR KRRQTSLTDFYHSKRRLVFCKRKP
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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#### **Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

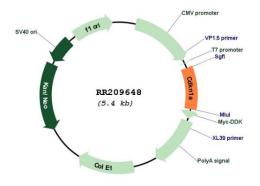
ACCN:	NM_080782
ORF Size:	492 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 080782.3, NP 542960.1</u>
RefSeq Size:	1894 bp
RefSeq ORF:	495 bp
Locus ID:	114851
Cytogenetics:	20p12
MW:	18.3 kDa

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Gene Summary: a Cdk inhibitor; involved in negative regulation of the cell cycle [RGD, Feb 2006]

## **Product images:**



Circular map for RR209648

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