

Product datasheet for **MR201941**

AI842396 (BC096427) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AI842396 (BC096427) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AI842396
Synonyms:	Inca1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201941 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTCAGCCGTATGGAGATGCCTTCTGGGAGAATCTTAGCCAAAGGTCTAGCTCCAATTGGATGGTAG
 AACAGTACATTCCACCAATTCTGAGGGCCACTGATTGCTCCCGGCCTAGCCTGCACCTCTTGAGGGCT
 CCCTCCTCCTGAGAAGCTTTGGAGAAGAAAGAGAAAGAAGCTGCATTTGGAAAGAATGCAGAAGGGACCT
 GGAAGCATTCCAGCCGAGTTAGAGCAGTTACTTATCATCTGGAGGACCTGAGAAGGCCAGGGAATCA
 TCAATGAACTGAAGAGGGCCAGTGGGCGAGCTCTGATGCTACACCTGAACTTCCAGCACTTGAAGAGGG
 CTTTGAATCCTAAGCACTACAAAATACTTTGACGTGGAAGAAGAGAGGGCAACCTATCCACAGAAAGAG
 ACTTATTCTGCTACTCCCAGAGATCAGCTGCTTTGGACTCCCTGGACTCCTGTAGGCCAGCAGGGGACTT
 ATGCCTCTGGGCAGCTAAGCTCTTTGACCTACAGCACTGCTACAGCCAGAAAGAACCCCGTTTACGATCC
 CCAGGCGATGGAGTTGGAGTCTGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR201941 protein sequence Red=Cloning site Green=Tags(s)
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MPQPYGDAFWENLSQRSSSNMVEQYIPPILRATDCSRPSLHPLEGLPPPEKLWRRKRKKLHLERMQKGP
 GSIPARVRAVYHLEDLRRRQGIINELKRAQWGSSDATPELPALEEGFELLSTTKYFDVEERATYPQKE
 TYSVTPRDQLLWTPWTPVGQGTYASGQLSSLTYSTATARKNPVYDPQAMELESEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC096427

ORF Size: 588 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC096427](#), [AAH96427](#)

RefSeq Size: 1299 bp

RefSeq ORF: 590 bp

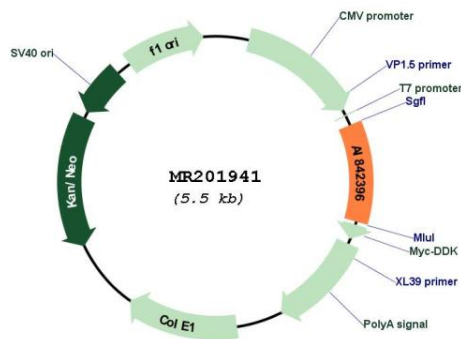
Locus ID: 103844

Cytogenetics: 11 B3

MW: 22.6 kDa

Gene Summary: Binds to CDK2-bound cyclins and inhibits the kinase activity of CDK2; binding to cyclins is critical for its function as CDK inhibitor. Inhibits cell growth and proliferation and may play a role in cell cycle control (PubMed:21540187). Required for ING5-mediated regulation of S-phase progression, enhancement of Fas-induced apoptosis and inhibition of cell growth (PubMed:21750715).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201941