

Product datasheet for MR201381

Cdkn2c (NM_007671) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdkn2c (NM_007671) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cdkn2c
Synonyms: C77269; INK; INK4c; p1; p18; p18-INK4c; p18-INK6; p18IN; p18INK4c
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201381 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCGAGCCTTGGGGAACGAGTTGGCGTCCGACGCTGCCAGGGGGACCTAGAGCAACTTACTAGTT
 TGTTGCAAATAATGTAAACGTCAACGCTCAAATGGATTTGGGAGAACTGCGCTGCAGGTTATGAACT
 TGGAAATCCGGAGATTGCCAGGAGGCTTCTCCTCAGAGGTGCTAATCCCAATTTGAAAGATGGAAGTGGT
 TTTGCTGTCATTCATGATGCTGCCAGAGCAGGTTTCTGGACACTGTACAGGCTTTGCTGGAGTTCCAGG
 CTGATGTTAACATTGAAGATAATGAAGGGAACCTGCCCTTGCACTTGGCTGCCAAAGAAGGCCACCTCCC
 TGTGGTGGAGTTCCTTATGAAGCACACAGCCTGCAATGTGGGGCATCGGAACCATAAGGGGGACACCGCC
 TTCGACTTGGCCAGGTTCTATGGAAGAAATGAGGTCATTAGCCTGATGGAGGCAAATGGGGTTGGGGGAG
 CCAACAAGCCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201381 protein sequence
 Red=Cloning site Green=Tags(s)

MAEPWGNELASAAARGDLEQLTSLQNNVNVNAQNGFGRALQVMKLGNPEIARRLLLRGANPNLKDGTG
 FAVIHDAARAGFLDTVQALLEFQADVNIEDNEGNLPLHLAAKEGHLPVVEFLMKHTACNVGHRNHKGDTA
 FDLARFYGRNEVISLMEANGVGGATSLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

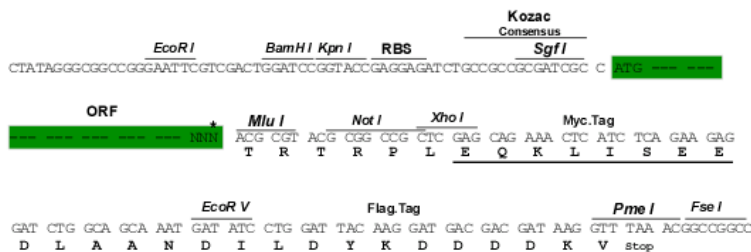
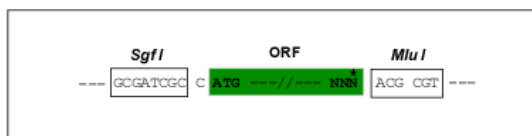
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007671

ORF Size: 507 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: [NM_007671.3](#)
RefSeq Size: 1134 bp

RefSeq ORF: 507 bp

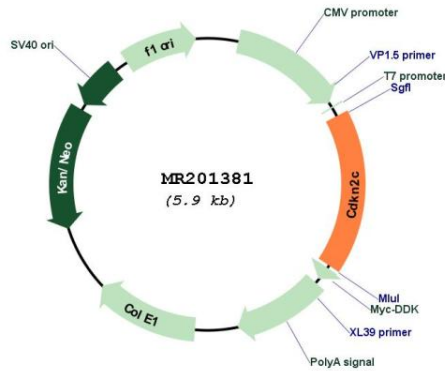
Locus ID: 12580

UniProt ID: [Q60772](#)
Cytogenetics: 4 51.32 cM

MW: 18.1 kDa

Gene Summary: The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase (cdk) inhibitors, and contains five ankyrin repeats. This protein interacts with both Cdk4 and Cdk6 to inhibit their kinase activities, and prevent their interactions with D-type cyclins, thereby negatively regulating cell division. This gene is differentially expressed in a variety of tissues, and is cell cycle regulated. Deletion of this gene can lead to tumor growth. Maximal expression is observed at the G2/M phase. Alternative splicing and promoter usage results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Product images:



Circular map for MR201381