

Product datasheet for MR200685

Cdk2ap2 (NM_026373) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdk2ap2 (NM_026373) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cdk2ap2
Synonyms: 5830466O21Rik; D19Ertd144e; Doc-1r
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200685 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTACAAACCTATCGCGCCCGCCCCAGCAGTACCCCGGGCTCCAGCACCCCGGGCCAGGCACCC
 CGGTCCCTACAGCCGGGAGTGTCCCATCGCCATCGGGCTCAGTCCAGGAGCTGCCGCACCTTTCAGACC
 GCTGTTTAAAGACTTTGGTCCGCCCTCCATGGGGTATGTACAGGCGATGAAGCCACCTGGTCCCAGGGC
 TCTCAGAGCACCTACACGGACCTGCTGTCTGTATAGAGGAGATGGGCAAAGAGATCCGGCCACCTATG
 CTGGTAGCAAGAGTGCCATGGAGCGCCTGAAGAGAGGCATCATCCAGCTCGGGCACTAGTCAGAGAGTG
 CTTGGCAGAGACAGAACGCAATGCCCGCACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200685 protein sequence
 Red=Cloning site Green=Tags(s)
 MSYKPIAPAPSSTPGSSTPGPGTPVPTAGSVPSVPSGVPAAAPFRPLFNDFGPPSMGYVQAMKPPGSQG
 SQSTYTDLLSVIEEMGKEIRPTYAGSKSAMERLKRGIHARALVRECLAETERNART

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_026373

ORF Size: 384 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_026373.4](#)

RefSeq Size: 911 bp

RefSeq ORF: 384 bp

Locus ID: 52004

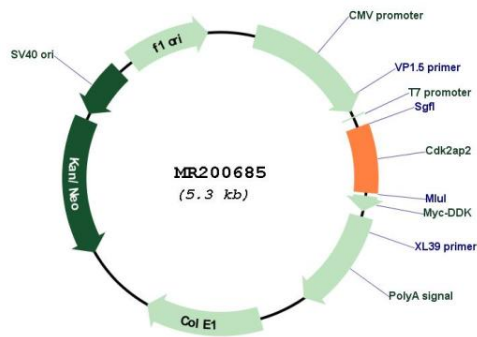
UniProt ID: [Q9CPY4](#)

Cytogenetics: 19 A

MW: 13.2 kDa

Gene Summary: Plays a role in regulating the self-renewal of embryonic stem cells (ESCs) and in maintaining cell survival during terminal differentiation of ESCs (PubMed:22548356). Regulates microtubule organization of metaphase II oocytes (PubMed:12944431). Inhibits cell cycle G1/S phase transition by repressing CDK2 expression and activation; represses CDK2 activation by inhibiting its interaction with cyclin E and A (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200685