

Product datasheet for **MG200685**

Cdk2ap2 (NM_026373) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdk2ap2 (NM_026373) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cdk2ap2
Synonyms: 5830466O21Rik; D19Ertd144e; Doc-1r
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200685 representing NM_026373
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCTACAAACCTATCGCGCCCGCCCCAGCAGTACCCGGGCTCCAGCACCCCGGGCCAGGCACCC
CGGTCCCTACAGCCGGGAGTGTCCCATCGCCATCGGGCTCAGTCCAGGAGCTGCCGCACCTTTCAGACC
GCTGTTTAACGACTTTGGTCCGCCCTCCATGGGGTATGTACAGGCGATGAAGCCACCTGGTCCCAGGGC
TCTCAGAGCACCTACACGGACCTGCTGTCTGTCATAGAGGAGATGGCAAAGAGATCCGGCCACCTATG
CTGGTAGCAAGAGTGCCATGGAGCGCCTGAAGAGAGGCATCATCCAGCTCGGGCACTAGTCAGAGAGTG
CTTGCCAGAGACAGAACGCAATGCCCGCACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200685 representing NM_026373
Red=Cloning site Green=Tags(s)
MSYKPIAPAPSSTPGSSTPGPGTPVPTAGSVSPSPSGSVPGAAAPFRPLFNDFGPPSMGYVQAMKPPGSQG
SQSTYTDLLSVIEEMKEIRPTYAGSKSAMERLKRGIHARALVRECLAETERNART

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

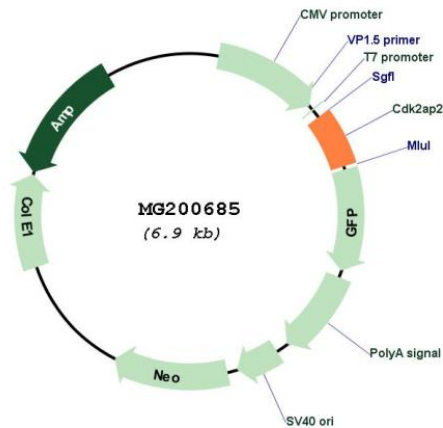


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Cloning Scheme:



Plasmid Map:



ACCN: NM_026373

ORF Size: 381 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:	<ol style="list-style-type: none">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:	<u>NM_026373.4</u>
RefSeq Size:	911 bp
RefSeq ORF:	384 bp
Locus ID:	52004
UniProt ID:	<u>Q9CPY4</u>
Cytogenetics:	19 A
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]