

Product datasheet for **MG200733**

Cdkn2b (NM_007670) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdkn2b (NM_007670) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cdkn2b
Synonyms: AV083695; INK4b; MTS2; p15; p15(INK4b); p15INK4b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200733 representing NM_007670
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGGCGGCAGCAGTGACGCGGGCCTGGCCACCGCCGCGCGGGGCAAGTGGAGACGGTGCGGC
AGCTCCTGGAAGCCGGCGCAGATCCCAACGCCCTGAACCGCTTCGGGAGGCGCCAATCCAGGTCATGAT
GATGGGCAGCGCCAGGTGGCAGAGCTGCTGCTCCACGGAGCAGAACCCAAGTGCAGCCGACCTGCC
ACCCTTACCAGACCTGTGCACGACGAGCTCGGAAGGCTTCCTGGACACGCTTGTGCTGCTGCACCGGG
CAGGGGCGCGGCTGGATGTGTGACGCTGGGGCCGCTGCCGGTAGACTTAGCTGAAGAGCAGGGCCA
CCGTGACATTGCGAGGTATCTGCACGCTGCCACTGGAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

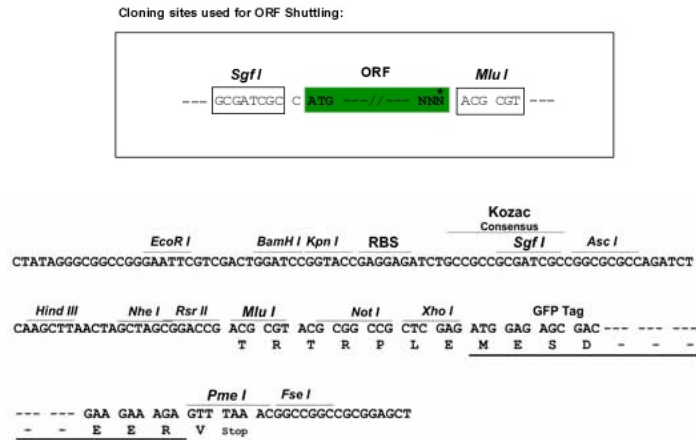
Protein Sequence: >MG200733 representing NM_007670
Red=Cloning site Green=Tags(s)
MLGSSDAGLATAAARGQVETVRQLLEAGADPNALNRFGRRIQVMMGSAQVAELLLLHGAEPNCADPA
TLTRPVHDAAREGFLDTLVVLRHAGARLDVCDAWGRLPVDLAAEQGHRDIARYLHAATGD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_007670

ORF Size: 390 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_007670.2](#)

RefSeq Size: 1284 bp

RefSeq ORF: 393 bp

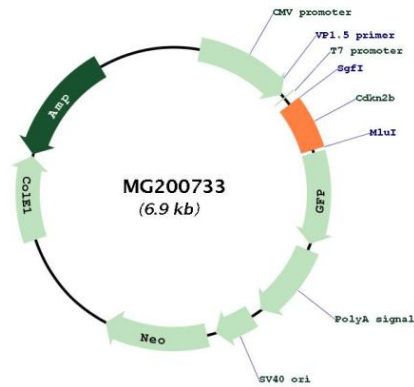
Locus ID: 12579

UniProt ID: [P55271](#)

Cytogenetics: 4 42.15 cM

Gene Summary: Interacts strongly with CDK4 and CDK6. Potent inhibitor. Potential effector of TGF-beta induced cell cycle arrest (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200733