

Product datasheet for **RG225176**

CDKN3 (NM_001130851) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CDKN3 (NM_001130851) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CDKN3
Synonyms: CDI1; CIP2; KAP; KAP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225176 representing NM_001130851
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCCGCCAGTTCAATACAAACAAGTTGTAATTTAAAGATGTTAGAAGAAATGTCCAAAAGATA
CAGAAGAATAAAGAGCTGTGGTATACAAGACATATTTGTTTTCTGCCAGAGGGGAACGTCAAATA
TAGAGTCCAAACCTTCTGGATCTCTACCAGCAATGTGGAATTATCACCCATCATCATCCAATCGCAGAT
GGAGGGACTCCTGACATAGCCAGCTGCTGTGAAATAATGGAAGAGCTTACAACCTGCCTAAAAATTACC
GAAAAACCTTAATACACTGCTATGGAGGACTTGGGAGATCTTGCTTGTAGCTGCTGTCTCCTACTATA
CCTGTCTGACACAATATCACCAGAGCAAGCCATAGACAGCCTGCGAGACCTAAGAGGATCCGGGGCAATA
CAGACCATCAAGCAATACAATTATCTTCATGAGTTTCGGGACAAATTAGCTGCACATCTATCATCAAGAG
ATTCACAATCAAGATCTGTATCAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

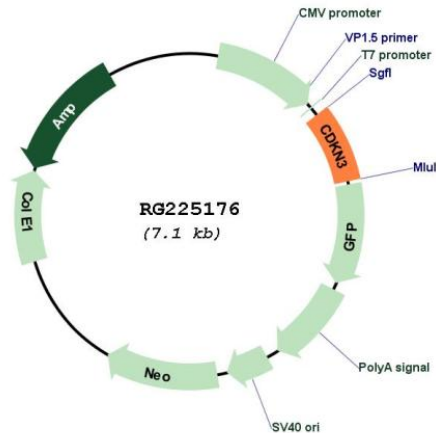
Protein Sequence: >RG225176 representing NM_001130851
Red=Cloning site Green=Tags(s)
MKPPSSIQTSCFKDVRNVQKDEELKSCGIQDIFVFCTRGELSKYRVPNLLDL YQCCGIITHHPIAD
GGTPDIASCCIMEELTTCLKNYRKTLIHCYGGGLGRSCLVAACL LLYLSDTISPEQAIDSLRDLRSGAI
QTIKQYNYLHEFRDKLAAHLSSRDSQSRSVSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001130851

ORF Size: 516 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_001130851.1, NP_001124323.1</u>
RefSeq Size:	786 bp
RefSeq ORF:	519 bp
Locus ID:	1033
UniProt ID:	<u>Q16667</u>
Cytogenetics:	14q22.2
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	The protein encoded by this gene belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. This gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]