

Product datasheet for **RG231009**

p16INK4A (CDKN2A) (NM_001195132) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p16INK4A (CDKN2A) (NM_001195132) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: p16INK4A
Synonyms: ARF; CDK4I; CDKN2; CMM2; INK4; INK4A; MLM; MTS-1; MTS1; P14; P14ARF; P16; P16-INK4A; P16INK4; P16INK4A; P19; P19ARF; TP16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231009 representing NM_001195132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCCGGCGGGGAGCAGCATGGAGCCTTCGGCTGACTGGCTGGCCACGGCCGCGGCCGGGGT
 GGGTAGAGGAGGTGCGGGCGCTGCTGGAGGCGGGGCGCTGCCAACGCACCGAATAGTTACGGTCGGAG
 GCCGATCCAGGTCATGATGATGGCAGCGCCGAGTGGCGGAGCTGCTGCTCCACGGCGGGAGCC
 AACTGCGCCGACCCGCCACTCTACCCGACCCGTGCACGACGCTGCCCGGAGGGCTTCTGGACACGC
 TGGTGGTCTGCACCGGGCGGGCGGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGACCT
 GGCTGAGGAGCTGGCCATCGCATGTCGCACGGTACCTGCGCGGCTGCGGGGGCACCAGAGGCAGT
 AACCATGCCCGCATAGATGCCCGGAAGTCCCTCAGAAATGATCGGAAACCATTTGTGGTTTTGTAGAA
 GCAGGCATGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231009 representing NM_001195132
 Red=Cloning site Green=Tags(s)
 MEPAAGSSMEPSADWLATAAARGRVEEVRALLEAGALPNAPNSYGRRPIQVMMGSRVAELLLLHGAEP
 NCADPATLTRPVHDAAREGFLDTLVVLRAGARLDVRDAWGRLPVDLAEEELGHRDVARYLRAAAGGTRGS
 NHARIDAAEGPSEMIGNHLWVCRSRHA

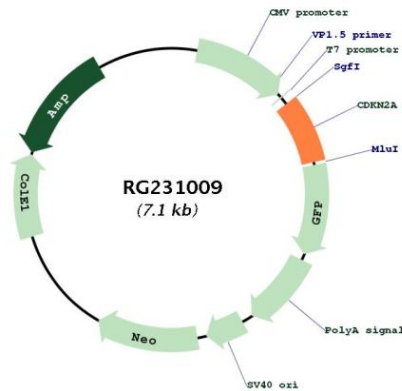
TRTRPLE - GFP Tag - V



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Cytogenetics:	9p21.3
Protein Families:	Druggable Genome
Protein Pathways:	Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer
Gene Summary:	This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq, Sep 2012]

Product images:



Circular map for RG231009