

## Product datasheet for **RG204658**

### **CDKN2AIP (NM\_017632) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | CDKN2AIP (NM_017632) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | CDKN2AIP                                    |
| Synonyms:                 | CARF                                        |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



[View online »](#)

**ORF Nucleotide Sequence:**

>RG204658 representing NM\_017632  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGCGCAGGAGGTGTCGGAGTACCTGAGCCAGAACCCGCGGGTGGCAGCCTGGGTGGAGGCGCTGCGCT  
 GCGACGCGGAGACTGACAAACACTGGCGCCACCGCCGGGATTTTTGCTTCGCAACGCCGGGACCTGGC  
 CCCCCTGGCGGCGCTGCCTCCGCTAGCACGGATGAAGCTGCCGACGCCGAGAGCGGGACCCGAAACCGG  
 CAGCTGCAGCAGCTCATCTCTTTTCCATGGCCTGGGCGAACCACGTCTTCCTCGGGTCCGATACCCCTC  
 AAAAAGTTATGGATAAAATACTTAGTATGGCTGAAGGCATCAAAGTGACAGATGCTCCAACCTATACAAC  
 AAGAGATGAAGTGGTGGCAAGGTGAAGAAAAGAGGGATATCGAGTAGCAATGAAGGGTGAAGAGCCA  
 TCCAAAAACGAGTTATAGAAGGAAAAACAGTTCTGCAGTTGAGCAAGATCACGAAAAACCTCTGCCA  
 AGACAGAACGTGCATCAGCTCAGCAGGAAAACAGTTCAACGTGTATAGGGTCGGCCATCAAATCAGAGAG  
 TGGGAAGTCAAGTGGAGCTCTGGCATCTCCAGTCAGAATAGCTCTACAAGTGATGGAGATCGATCTGTT  
 TCCAGCCAAAGCAGCAGCAGCGTTTCTCTCAGGTAACAACGGCAGGATCTGGGAAAGCTTCTGAAGCAG  
 AAGCTCCAGATAAACACGGTTCATCATTTGTTTCTTGCTGAAATCCAGTGTAATAGTCACATGACCCA  
 ATCCACTGATTCTAGACAACAAAGTGGATCACCTAAAAAGAGTGCTTTGGAAGGCTCTTCAGCCTCAGCT  
 TCTCAAAGCAGCTCAGAGATCGAGGTGCCCTTGTGGGCTCCTCAGGAAGCTCAGAGGTAGAATTGCCAC  
 TATTGTCTTCCAAACCTAGTTCAGAGACAGCTTCAAGTGGGTTAACTTCCAAACCTAGTTCAGAGGCAAG  
 TGTTTCATCATCAGTTGCTAAAAACAGTTCTCATCAGGCACATCCTTACTGACTCCCAAGAGCAGCTCT  
 TCAACAAATACATCGCTGCTAACTTCCAAGAGCACTTCCAGGTAGCTGCATCACTACTAGCTTCCAAGA  
 GCAGCTCCAGACCAAGTGGATCTCTGGTTTCCAAAGCACTTCTTAGCAAGTGTCAGTGGCTTCCAGTTC  
 TAAGAGTAGTTCTCAGACTAGCACCTCAGAGTTGCCTTCTAAAAGTACTTCACAGTCAAGTGAGAGTTCT  
 GTCAAAATCTCTTGCAAGTTAACCAATGAAGATGTGAAACAGAAGCAACCTTTTTTCAATAGACTATATA  
 AAACGGTGGCATGGAAGTTGGTAGCTGTTGGTGCTTTAGTCCCAATGTGAATCATGGAGAGCTCTAA  
 TGCAGCTATTGAGGCTCTGAAAGCAACTGGATGTATTTTTGTCCCACTAAAAGAATTGGCAGATCTG  
 CCTCAAATAAGAGCTCTCAAGAAAGTATTGTTTGTGAATTGAGGTGCAAGTCTGTGATTTGGGCACTG  
 GCTGTGAAAAAGCAAAGAAAATGCAAAAGCAGTTGCATCAAGAGAAGCATTGAAGTTATTTCTCAAGAA  
 AAAGGTGGTGGTAAAAATATGTAAGGAAATACAGAGGCAGTGAATAGAAGATCTAGTACTCCTTGAT  
 GAAGAATCGAGGCTGTAACTTACCTCCAGCACTAAACATCCTCAAGAATTACTA

**ACGCGT**ACGCGGCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204658 representing NM\_017632  
 Red=Cloning site Green=Tags(s)

MAQEVSEYLSQNPVAAWVEALRCDGETDKHWRHRRDFLLRNAGDLAPAGGAASASTDEADAESGTRNR  
 QLQQLISFSMAWANHVFLGCRYPOKVMKILSMAEGIKVTDAPTYTTRDELVAKVKKRGISSNEGVEEP  
 SKKRVIEGKNSSAVEQDHAKTSAKTERASAQQENSSTCIGSAIKSESGNSARSSGISSQNSSTSDGDRSV  
 SSQSSSVSSQVTTAGSGKASEAEAPDKHGSSFVSLKSSVNSHMTQSTDSRQQSGSPKSALEGSSASA  
 SQSSSEIEVPLLGSSESEVELPLSSKPSSETASSGLTSKTSSEASVSSSVAKNSSSSGTSLLTPKSSS  
 STNTSLLTSKSTSQVAASLLASKSSQTSGLVSKSTSLASVSQLASKSSQTSQLPKSTSQSSESS  
 VKFSCKLTNEDVKQKQPFNRLYKTVAWKLAVGGFSPNVNHGELLNAAIEALKATLDVFFVPLKELADL  
 PQNKSSQESIVCELRCYSVYLTGCGKSKENAKAVASREALKFLKKKVVKICKRKYRGSEIEDLVLLD  
 EESRPVNLPPALKHPQELL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_017632

**ORF Size:** 1737 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_017632.1](#), [NP\\_060102.1](#)

**RefSeq Size:** 2392 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 55602

UniProt ID: [Q9NXV6](#)

Cytogenetics: 4q35.1

Gene Summary: The protein encoded by this gene regulates the DNA damage response through several different signaling pathways. One such pathway is the p53-HDM2-p21(WAF1) pathway, which is critical to the DNA damage response. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

## Product images:



Circular map for RG204658