

## Product datasheet for **RN207850**

### **Cdkn2aip (NM\_001014000) Rat Untagged Clone**

#### **Product data:**

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Cdkn2aip (NM_001014000) Rat Untagged Clone |
| Tag:                      | Tag Free                                   |
| Symbol:                   | Cdkn2aip                                   |
| Synonyms:                 | RGD1305302                                 |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**Fully Sequenced ORF:** >RN207850 representing NM\_001014000  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGCGCAGGAGGTATCCGAGTACCTGAGCCAGAACC CGCAGTAGCCGCCTGGGTGGAGACCCTTCGCT  
 GCGAGGGCGAGACGGACAAACACTGGCGCCACCGCCGGGAGTTTCTGCTTCGCAATGCCGGGACCTGGT  
 CCCC GCGACCGAGGAGACTGCGGACGCGAAAGCGGAGCCCGCAGTCGGCAGCTACAGCAGCTCGTCTCC  
 TTCTCCATGGCCTGGGCAAACCATGTCTTCTAGGGTGCCGTTACCCTCAAAAAGTTATGGATAAAATTC  
 TTAGTATGGCTGAAGGCATCAAAGTGACAGATGCTCCAATCCATACCACAGAGACGAACTGGTTGCCAA  
 GGTGAAGAAAAGAGGGATATCGAGTAGCAATGAAGGGTAGAAGAGCCATCAAAAAACGATCCATAGAA  
 GGAAAAACAATTCTTCAGTTGAGCGAGATCATGGGAAAAATCTGCCAAAACAGATCGTTCAGCTCAGC  
 AAGAAAACAGTTCAGGATCCAAGGGTCTGCCACCAATCAGAGAGTAGTGGGACCTCAGCTCGGAGCAA  
 CTCTGGTGTCTCCATCAGAATAGTTCCACAAGTGAAGGCGATAGATCTGTTTGCAGCCAAAGCAGCAGC  
 AATTCTCTCAGGTAACATCAGCAGGGTCTGGAAAAGTTCTGAGCCAGAAGCTCCAGATAAACATGGTT  
 CAGCATCCTTTGTTTCTTCACTGTAAAAATCCAGTCTGAATAGTCATGTGACGAAATCCACTGATTCCAG  
 ACAGCATAGTGGATCACCTAGAAAGATGCTTTGGAAGTTCTTCAGTTTCAGTTTCTCAGAGCAGCTCA  
 GAGATTGAGGTGCCCTTGTGGGTTCTCCGGAAGCTCAGAAAGTAGAGTTGCCATTACTGTCTTGAAGT  
 CTAGTTCAGAGACAGCTTCGAGTGGGTTAAACACCAAGCTAGTTCAGAGGCAACATTTTCATCATCAGT  
 TTCTAAAAACAGTTCTCATCAGGCACCTCTTACTAATGCCAAGAGCAGTTCAACAAATACATCACTA  
 CTGACTTCTCAGGTAGCTGCATCACTGTTAGCTTCCAAAAGCAGCTCCAGAGCAGTGGATCTGTGGCTT  
 CCAAAAGCAGTTCCTTAGGAAGCATGTCTCAGTAGCTTCTAAGAGTAGTTCTCAGAGTAGCACTTACA  
 GTTGCTTCTAAAAGTACCTCACAGTCCAGTGAGAGTTCTGTCAAATTCAGTTGTGCGAAGTTAAACCAAT  
 GAAGACATAAAGCAGAAGCAGCCTTTCTTCAATAGACTGTATAAGACAGTGGCGTGAAGTTGGTAGCAG  
 TTGGTGGCTTTAGCCCCAATGTGAATCATGGCGAGCTGCTAAATGCAGCTATTGAGGCTCTGAAAGCAAC  
 ACTAGATGTGTTTTTGTCCCACTGAAAGAACTGGCAGATCTGCCTCAAATAAGAGCTCTCAAGAAAGT  
 ATTGTATGTGAATTGAGGTGTAATCGGTGATTTGGGCACTGGCTGTGGGAAAAGCAAAGAAAATGCAA  
 AAGCAGTCGCATCAAGAGAGGCACTTAAGTTATTTCTCAAGAAGAAGGTGGTGTAAAGATCTGTAAAG  
 GAAGTACAGAGGCAATGAGATAGAAGATCTAGTACTCTCGATGAAGAATCAAGACCTGTAACTTACCT  
 CCAGCACTGAAACATCTCAAGAATTACTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001014000

**Insert Size:** 1713 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>RefSeq:</b>                | <u>NM_001014000.1, NP_001014022.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 2280 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1713 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 306455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u>Q5U2X0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 16q11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | <p>Regulates DNA damage response and cell proliferation in a dose-dependent manner through a number of signaling pathways involved in cell proliferation, apoptosis and senescence.</p> <p>[UniProtKB/Swiss-Prot Function]</p>                                                                                                                                                                                                                                                                                          |