

# Product datasheet for AR09379PU-N

# CDK2AP1 / DOC1 (1-115, His-tag) Human Protein

## **Product data:**

#### OriGene Technologies, Inc.

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| Product Type:                            | Recombinant Proteins  |
|--|---|
| Description:                             | CDK2AP1 / DOC1 (1-115, His-tag) human recombinant protein, 0.1 mg   |
| Species:                                 | Human   |
| Expression Host:                         | E. coli   |
| Expression cDNA Clone<br>or AA Sequence: | <u>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH</u> MSY KPNLAAHMPA AALNAAGSVH<br>SPSTSMATSS QYRQLLSDYG PPSLGYTQGT GNSQVPQSKY AELLAIIEEL GKEIRPTYAG<br>SKSAMERLKR GIIHARGLVR ECLAETERNA RS |
| Tag:                                     | His-tag   |
| Predicted MW:                            | 16.6 kDa  |
| Concentration:                           | lot specific  |
| Purity:                                  | >95% by SDS - PAGE  |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 2 mM DTT                                     |
| Preparation:                             | Liquid purified protein   |
| Protein Description:                     | Recombinant CDK2AP1 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.  |
| Storage:                                 | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:                               | Shelf life: one year from despatch.   |
| RefSeq:                                  | <u>NP 001257362</u>   |
| Locus ID:                                | 8099  |
| UniProt ID:                              | <u>O14519</u>   |
| Cytogenetics:                            | 12q24.31  |
| Synonyms:                                | doc-1; DOC1; DORC1; p12DOC-1; ST19  |



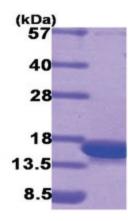
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### CDK2AP1 / DOC1 (1-115, His-tag) Human Protein – AR09379PU-N

Summary: The protein encoded by this gene is a cyclin-dependent kinase 2 (CDK2) -associated protein which is thought to negatively regulate CDK2 activity by sequestering monomeric CDK2, and targeting CDK2 for proteolysis. This protein was found to also interact with DNA polymerase alpha/primase and mediate the phosphorylation of the large p180 subunit, which suggests a regulatory role in DNA replication during the S-phase of the cell cycle. This protein also forms a core subunit of the nucleosome remodeling and histone deacetylation (NURD) complex that epigenetically regulates embryonic stem cell differentiation. This gene thus plays a role in both cell-cycle and epigenetic regulation. Alternative splicing results in multiple transcript

variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]

## **Product images:**



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