

Product datasheet for **RC204442L3V**

CDK2AP1 (NM_004642) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | CDK2AP1 (NM_004642) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | CDK2AP1 |
| Synonyms: | doc-1; DOC1; DORC1; p12DOC-1; ST19 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_004642 |
| ORF Size: | 345 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC204442). |
| 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. |
| RefSeq: | NM_004642.2 |
| RefSeq Size: | 1655 bp |
| RefSeq ORF: | 348 bp |
| Locus ID: | 8099 |
| UniProt ID: | O14519 |
| Cytogenetics: | 12q24.31 |
| MW: | 12.4 kDa |



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Gene 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]