# CDK2AP2 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | CDK2AP2, Recombinant Protein |
| **Full Product Name** | CDK2AP2 Protein, Human, Recombinant (His Tag) |
| **Product Gene Name** | CDK2AP2 recombinant protein |
| **Product Synonym Names** | Human CDK2AP2 Protein (His Tag); DOC-1R Protein, Human; p14 Protein, Human; cyclin-dependent kinase 2 associated protein 2 |
| **Sequence** | Met1-Thr12 6 |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from sterile PBS, 15% glycerol, pH7.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA. |
| **Purity/Purification** | >95% as determined by SDS-PAGE |
| **Preparation and Storage** | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.<br>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid.<br>They are shipped out with blue ice. |
| **Molecular Weight** | 13,101 Da |
| **Chromosome Location** | Chromosome: 11; NC_000011.9 (67273968..67276102, complement). Location: 11q13 |
| **3D Structure** | ModBase 3D Structure for O75956 |
| **Species** | Human |
| **Predicted N Terminal** | Met |
| **Tag** | C-His |
| **Protein Construction** | A DNA sequence encoding the human CDK2AP2 (O75956)(Met 1-Thr 126) was fused with a polyhistidine tag at the C-terminus. |
| **Reconstitution** | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information. |
| **Related Product Information for CDK2AP2 recombinant protein** | Background: CDK2AP2 belongs to the CDK2AP family. Members of this family of proteins are cell-growth suppressors, associating with and influencing the biological activities of important cell cycle regulators in the S phase including monomeric non-phosphorylated cyclin-dependent kinase 2 (CDK2) and DNA polymerase alpha/primase. CDK2AP2 contains 5 distinct gt-ag introns. Transcription produces 7 different mRNAs, 6 alternatively spliced variants and 1 unspliced form. There are 2 non overlapping alternative last exons and 4 validated alternative polyadenylation sites. The mRNAs appear to differ splicing versus retention of 3 introns. CDK2AP2 plays a role in regulating self-renewal of mouse embryonic stem cells (mESC) under permissive conditions, and cell survival during differentiation of the mESC into terminally differentiated cell types. |
| **Product References and Citations for CDK2AP2 recombinant protein** | Stelzl U, et al. (2005) A human protein-protein interaction network: a resource for annotating the proteome. Cell. 122(6):957-68.2 Gerhard DS, et al. (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 14(10B):2121-7.3 Buajeeb W, et al. (2004) Interaction of the CDK2-associated protein-1, p12(DOC-1/CDK2AP1), with its homolog, p14(DOC-1R). Biochem Biophys Res Commun. 315(4):998-1003 |

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| **Other Notes** | Small volumes of CDK2AP2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CDK2AP2 purchase** | MBS8121187 is a recombinant protein targeting CDK2AP2. Also known as CDK2AP2 Protein, Human, Recombinant (His Tag). Host: E Coli. |




**SDS-Page of CDK2AP2 recombinant protein**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK2AP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 5031669 |
| **NCBI GeneID** | 10263 |
| **NCBI Accession #** | NP_005842.1 |
| **UniProt Primary Accession #** | O75956 |
| **UniProt Related Accession #** | O75956 |
| **GenBank Nucleotide #** | NM_005851.4 |
| **NCBI Official Full Name** | cyclin-dependent kinase 2-associated protein 2 isoform 1 |
| **NCBI Official Synonym Full Names** | cyclin-dependent kinase 2 associated protein 2 |
| **NCBI Official Symbol** | CDK2AP2 |
| **NCBI Official Synonym Symbols** | p14; DOC-1R |
| **UniProt Protein Name** | Cyclin-dependent kinase 2-associated protein 2 |
| **UniProt Synonym Protein Names** | DOC-1-related protein |
| **Protein Family** | Cyclin-dependent kinase 2-associated protein |
| **UniProt Gene Name** | CDK2AP2 |
| **UniProt Synonym Gene Names** | DOC1R; CDK2-associated protein 2; DOC-1R |
| **UniProt Entry Name** | CDKA2_HUMAN |
| **NCBI Protein Information** | cyclin-dependent kinase 2-associated protein 2; DOC-1-related protein; CDK2-associated protein 2; tumor suppressor deleted in oral cancer related 1 |
| **NCBI Summary for CDK2AP2** | This gene encodes a protein that interacts with cyclin-dependent kinase 2 associated protein 1. Pseudogenes associated with this gene are located on chromosomes 7 and 9. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012] |
| **UniProt Comments for CDK2AP2** | CDK2AP2: Belongs to the CDK2AP family.<br><br>Protein type: Cell cycle regulation<br><br>Chromosomal Location of Human Ortholog: 11q13 |

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