

## Product datasheet for PH304442

### CDK2AP1 (NM\_004642) Human Mass Spec Standard

#### Product data:

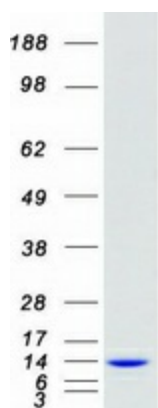
Product Type:	Mass Spec Standards
Description:	CDK2AP1 MS Standard C13 and N15-labeled recombinant protein (NP_004633)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204442
Predicted MW:	12.4 kDa
Protein Sequence:	>RC204442 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLLSDYGPPSLGYTQGTGNSQVPQSKYAELLAII EELGKEIRPTYAGSKSAMERLKRGIHARGLVRECLAETERNARS  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004633</a>
RefSeq Size:	1655
RefSeq ORF:	345
Synonyms:	doc-1; DOC1; DORC1; p12DOC-1; ST19
Locus ID:	8099
UniProt ID:	<a href="#">O14519</a>
Cytogenetics:	12q24.31



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**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:**

Coomassie blue staining of purified CDK2AP1 protein (Cat# [TP304442]). The protein was produced from HEK293T cells transfected with CDK2AP1 cDNA clone (Cat# [RC204442]) using MegaTran 2.0 (Cat# [TT210002]).