

# Recombinant Full Length Human CDC2 Protein, GST-tagged

Cat. No. CDC2-3176HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CDC2 full-length ORF (AAH14563, 1 a.a. - 297 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	297 amino acids
<b>Description</b>	<p>The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]</p>
<b>Molecular Mass</b>	58.41 kDa
<b>AA Sequence</b>	<p>MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIRESLLKEL  RHPNIVSLQDVLQMDSRLYLIFEFLSMDLKKYLDSPGGQYMDSSLVKSYLYQILQGIV  FCHSRRVLHRDLKPNLLIDDKGTIKLADFGFLARAFGIPIRVYTHEVVTLWYRSPEVLL  GSARYSTPVDIWSIGTIFAELATKKPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESL</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QDYKNTFPKWKPGSLASHVKNLDENGLDLLSKMLIYDPAKRISGKMALNHPYFNLDL  
NQIKKM

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** CDK1 cyclin dependent kinase 1 [ Homo sapiens (human) ]

**Official Symbol** CDC2

**Synonyms**  
 CDK1; cyclin dependent kinase 1; CDC2; CDC28A; P34CDC2; cyclin-dependent kinase 1; cell cycle controller CDC2; cell division control protein 2 homolog; cell division cycle 2, G1 to S and G2 to M; cell division protein kinase 1; p34 protein kinase; EC 2.7.11.22; EC 2.7.11.23; Cyclin Dependent Kinase 1; Cell Division Cycle 2, G1 To S And G2 To M; Cell Division Control Protein 2 Homolog; Cell Division Protein Kinase 1; P34 Protein Kinase; Cell Cycle Controller CDC2; Cyclin-Dependent Kinase 1

**Gene ID** 983

**mRNA Refseq** NM\_001170406

**Protein Refseq** NP\_001163877

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<b>MIM</b>	116940
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<b>UniProt ID</b>	P06493
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