

## Product datasheet

# Recombinant human CDK6 + CCND3 protein (Tagged) ab271462

[2 Images](#)

### Description

<b>Product name</b>	Recombinant human CDK6 + CCND3 protein (Tagged)	
<b>Biological activity</b>	<p>Specific activity: 12 pmol/min/μg</p> <p>Assay was done in a Kinase buffer using Histone H1 (0.1 mg/ml) as a substrate with 20 M ATP at 30°C for 60 min.</p>	
<b>Purity</b>	<p>&gt;= 80 % SDS-PAGE.</p> <p>Affinity purified.</p>	
<b>Expression system</b>	Baculovirus infected Sf9 cells	
<b>Accession</b>	<p><a href="#">Q00534</a></p> <p><a href="#">P30281</a></p>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Amino Acid Sequence 1</b>		
<b>Species</b>	Human	
<b>Sequence</b>	<pre> MEKDGLCRADQQYECVAEIGEGAYGKVKARDLKNNGR FVALKRVRVQTG EEGMPLSTIREVAVLRHLETFEHPNVVRLFDVCTVSRDTR ETKLTLVFEH VDQDLTTYLDKVPEPGVPTETIKDMMFQLLRGLDFLHSHR VVHRDLKPQN ILVTSSGQIKLADFGGLARIYSFQMALTSVVVTLWYRAPEVLL QSSYATPV DLWSVGCIFAEMFRRKPLFRGSSDVDQLGKILDVIGLPGE EDWPRDVALP RQAFHSKSAQPIEFVTDIDELGKDLLLKCLTFNPAKRISA YSALSHPYF QDLERCKENLDLHPPSQNTSELNTA </pre>	
<b>Predicted molecular weight</b>	71 kDa	
<b>Amino acids</b>	1 to 326	
<b>Tags</b>	His tag N-Terminus	
<b>Amino Acid Sequence 2</b>		

<b>Species</b>	Human
<b>Sequence</b>	MELLCCEGTRHAPRAGPDPRL LGDQQRVLQSLLRLEERYV PRASYFQCVQR EIKPHMRKMLAYWMLEVCEEQRCEEEVFPLAMNYLDRYL SCVPTRKAQLQ LLGAVCMLLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWE VLVLGKCLKW DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCAT DYTFAMYPP SMIATGSIGAAVQGLGACSMGDELTELLAGITGTEVDCLR ACQEIQEAA LRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAI HL
<b>Amino acids</b>	1 to 292
<b>Tags</b>	His tag N-Terminus

## Specifications

Our [Abpromise guarantee](#) covers the use of **ab271462** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

## Preparation and Storage

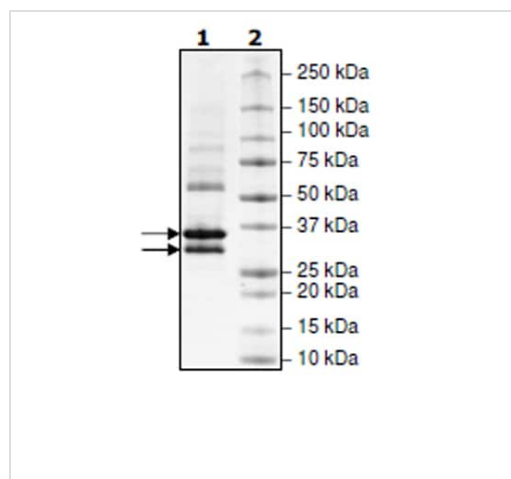
**Stability and Storage** Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  
pH: 8  
Preservative: 2.04% Imidazole  
Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.05% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine)  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

**Relevance** CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* cdc28, and *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of Cdk6 first appears in mid-G1 phase, and is controlled by regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Cyclin D3 is a G1 cyclin closely related to cyclin D1 and D2. Cyclins D1, D2, and D3 are members of a growing superfamily of cyclins, proteins that govern transitions through distinct phases of the cell cycle by regulating the activity of cyclin-dependent kinases (cdks). All three known members of the D-type subfamily form active kinase complexes in vivo with a distinct subset of cdks, particularly with cdk4 and cdk6.

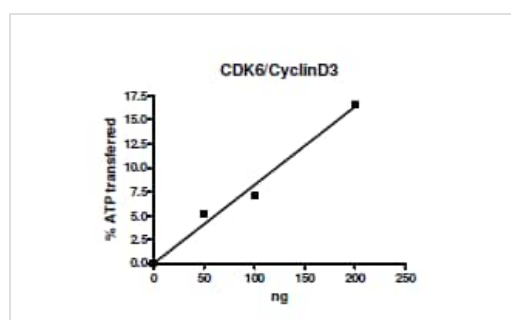
**Cellular localization** CCND3: Cytoplasm. Nucleus

## Images



SDS-PAGE analysis of ab271462.

SDS-PAGE - Recombinant Human CDK6 + CCND3 protein (Tagged) (ab271462)



Specific activity of ab271462.

Functional Studies - Recombinant Human CDK6 + CCND3 protein (Tagged) (ab271462)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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