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Datasheet for ABIN7553020

**Cyclin T2 Protein (CCNT2) (AA 1-730) (His tag)**

## Overview

Quantity:	1 mg
Target:	Cyclin T2 (CCNT2)
Protein Characteristics:	AA 1-730
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin T2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat CCNT2 Protein expressed in mammalien cells.
Sequence:	MASGRGASSR WFFTREQLEN TPSRRCGVEA DKELSCRQQA ANLIQEMGQR LNVSQLTINT AIVYMHRFYM HHSFTKFNKN IISSTALFLA AKVEEQARKL EHVIVAHAC LHLEPLLDL KCDAYLQQTQ ELVILETIML QTLGFEITIE HPHTDVVKCT QLVRASKDLA QTSYFMATNS LHLTTFCLQY KPTVIACVCI HLACKWSNWE IPVSTDGKHW WEYVDPTVTL ELLDELTHEF LQILEKTPNR LKKIRNWRAN QAARKPKVDG QVSETPLLGS SLVQNSILVD SVTGVPTNPS FQKPSTSAFP APVPLNSGNI SVQDSHTSDN LSMLATGMPS TSYGLSSHQE WPQHQSART EQLYSQKQET SLSGSQYNIN FQQGPSISLH SGLHHRPDKI SDHSSVKQEY THKAGSSKHH GPISTTPGII PQKMSLDKYR EKRKLETLDL DVRDHIAAQ VEQQHKQGQS QAASSSSVTS PIKMKIPIAN TEKYMADKKE KSGSLKLRIP IPPTDKSASK EELKMKIKVS SSERHSSSDE GSGKSKHSSP HISRDHKEKH KEHPSSRHHT SSHKSHSHS GSSSGGSKHS ADGIPPTVLR SPVGLSSDGI SSSSSSRKR LHVNDASHNH HSKMSKSSKS SGSSSSSSSS VKQYISSHNS

## Product Details

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VFNHPLPPPP PVTYQVGYGH LSTLVKLDKK PVETNGPDAN HEYSTSSQHM DYKDTFDMLD  
SLLSAQGMNM **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

Cyclin T2 (CCNT2)

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### Alternative Name:

CCNT2 ([CCNT2 Products](#))

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### Background:

Cyclin-T2 (CycT2),FUNCTION: Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition from abortive to production elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNAP II) (PubMed:9499409, PubMed:15563843). The activity of this complex is regulated by binding with 7SK snRNA (PubMed:11713533). Plays a role during muscle differentiation, P-TEFB complex interacts with MYOD1, this tripartite complex promotes the transcriptional activity of MYOD1 through its CDK9-mediated phosphorylation and binds the chromatin of promoters and enhancers of muscle-specific genes, this event correlates with

## Target Details

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hyperphosphorylation of the CTD domain of RNA pol II (By similarity). In addition, enhances MYOD1-dependent transcription through interaction with PKN1 (PubMed:16331689). Involved in early embryo development (By similarity). {ECO:0000250|UniProtKB:Q7TQK0, ECO:0000269|PubMed:11713533, ECO:0000269|PubMed:15563843, ECO:0000269|PubMed:16331689, ECO:0000269|PubMed:9499409}., FUNCTION: (Microbial infection) Promotes transcriptional activation of early and late herpes simplex virus 1/HHV-1 promoters. {ECO:0000269|PubMed:21509660}.

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Molecular Weight: 81.0 kDa

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UniProt: [O60583](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months