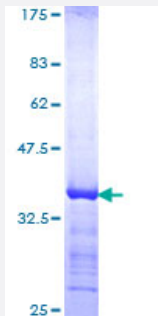


# CCNT1 (Human) Recombinant Protein (Q01)

Catalog # H00000904-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human CCNT1 partial ORF ( NP_001231, 321 a.a. - 420 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	SNLTSVEMLPGKRWLSSQPSFKLEPTQGHRTSENALTGVDHSLPQDGSNAFISQKQNSKSVPS AKVSLKEYRAKHAEELAAQKRQLENMEANVKSQYAY
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.74
<b>Interspecies Antigen Sequence</b>	Mouse (88); Rat (88)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

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

## Gene Info — CCNT1

Entrez GeneID [904](#)

GeneBank Accession# [NM\\_001240](#)

Protein Accession# [NP\\_001231](#)

Gene Name CCNT1

Gene Alias CCNT, CYCT1

Gene Description cyclin T1

Omim ID [602506](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin and the elongation factor can interact with, and act as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and was shown to be both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner were also found to be involved in the phosphorylation and regulation of the carboxy-terminal domain (CTD) of the largest RNA polymerase II subunit. [provided by RefSeq]

**Other Designations** CDK9-associated C-type protein|cyclin C-related protein|cyclin T1b|subunit of positive elongation transcription factor b

## Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)