

Datasheet for ABIN7564004  
**CRTC1 Protein (AA 1-630) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CRTC1
Protein Characteristics:	AA 1-630
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRTC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Crtc1 Protein expressed in mammalien cells.
Sequence:	<p>MATSNNPRKF SEKIALHNQK QAEETA AFEE VMKDLSLTRA ARLQLQKSQY LQLGPSRGQY  YGGSLPNVNQ IGSSSVDLAF QTPFQSSGLD TSRTTRHHGL VDRVYRERGR LGSPHRRPLS  VDKHGRQADS CPYGTVYLSP PADTSWRRTN SDSALHQSTM TPSQAESFTG GSQDAHQKRV  LLLTVPGMED TGAETDKTLS KQSWDSKKAG SRPKSCEVPG INIFPSADQE NTTALIPATH  NTGGSLPDLT NIHFPSPLPT PLDPEEPPFP ALTSSSSTGS LAHLGVGGAG QGMNTPSSSP  QHRPAVVSPL SLSTEARRQ AQQVSPTLSP LSPITQAVAM DALSLLEQLP YAFFTQTGSQ  QPPPQPQPPP PPPPVSQQQP PPPQVSVGLP QGGPLLPSAS LTRGPQLPPL SVTVPSTLPQ  SPTENPGQSP MGIDATSAPA LQYRTSAGSP ATQSPTSPVS NQGFSPGSSP QHTSTLGSVF  GDAYYEQMT ARQANALSRQ LEQFNMMENA ISSSLYNPG STLNYSQAAM MGLSGSHGGL  QDPQQLGYTG HGGIPNIILT VTGESPPSL S KELSSTLAGV SDVSFSDSHQ FPLDELKIDP  LTLDGLHMLN DPDMVLADPA TEDTFRMDRL <b>Sequence without tag. The proposed</b></p>

**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.**

### 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.

### Purity:

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

### Grade:

custom-made

## Target Details

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### Target:

CRTC1

### Alternative Name:

Crtc1 ([CRTC1 Products](#))

### Background:

CREB-regulated transcription coactivator 1 (Mucoepidermoid carcinoma translocated protein 1 homolog) (Transducer of regulated cAMP response element-binding protein 1) (TORC-1) (Transducer of CREB protein 1),FUNCTION: Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites (PubMed:29211348). Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated (PubMed:29211348). Acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PGC1alpha and inducer of mitochondrial biogenesis in muscle cells (By similarity). In the hippocampus, involved in late-phase long-term potentiation (L-LTP) maintenance at the

## Target Details

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Schaffer collateral-CA1 synapses. May be required for dendritic growth of developing cortical neurons. In concert with SIK1, regulates the light-induced entrainment of the circadian clock. In response to light stimulus, coactivates the CREB-mediated transcription of PER1 which plays an important role in the photic entrainment of the circadian clock.

{ECO:0000250|UniProtKB:Q157S1, ECO:0000250|UniProtKB:Q6UUUV9, ECO:0000269|PubMed:17360587, ECO:0000269|PubMed:23699513, ECO:0000269|PubMed:23993098, ECO:0000269|PubMed:29211348}.

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Molecular Weight: 66.9 kDa

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UniProt: [Q68ED7](#)

## 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