

Datasheet for ABIN7554791  
**CCRN4L Protein (AA 1-431) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CCRN4L
Protein Characteristics:	AA 1-431
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCRN4L protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant NOCT Protein expressed in mammalian cells.
Sequence:	MFHSPRRLLCS ALLQRDAPGL RRLPAPGLRR PLSPPAAVPR PASPRLLAAA SAASGAARSC SRTVCSMG TG TSRLYSALAK TLNSSAASQH PEYLVSPDPE HLEPIDPKEL LEECRAVLHT RPPRFQRDFV DLRTDCPSTH PPIRVMQWNI LAQALGEGKD NFVQCPVEAL KWEERKCLIL EEILAYQPDI LCLQEVDHYF DTFQPLLSRL GYQGTFPPKP WSPCLDVEHN NGPDGCALFF LQNRFKLVNS ANIRLTAMTL KTNQVAIAQT LECKESGRQF CIAVTHLKAR TGWERFRSAQ GCDLLQNLQN ITQGAKIPLI VCGDFNAEPT EEVYKHFASS SLNLNSAYKL LSADGQSEPP YTTWKIRTSG ECRHTLDYIW YSKHALNVRS ALDLLTEEQI GPNRLPSFNY PSDHLSLVCD FSFTEESDGL S <b>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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

CCRN4L

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### Alternative Name:

NOCT ([CCRN4L Products](#))

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### Background:

Nocturnin (EC 3.1.3.108) (Carbon catabolite repression 4-like protein),FUNCTION: Phosphatase which catalyzes the conversion of NADP(+) to NAD(+) and of NADPH to NADH (PubMed:31147539). Shows a small preference for NADPH over NADP(+) (PubMed:31147539). Represses translation and promotes degradation of target mRNA molecules (PubMed:29860338). Plays an important role in post-transcriptional regulation of metabolic genes under circadian control (By similarity). Exerts a rhythmic post-transcriptional control of genes necessary for metabolic functions including nutrient absorption, glucose/insulin sensitivity, lipid metabolism, adipogenesis, inflammation and osteogenesis (By similarity). Plays an important role in favoring adipogenesis over osteoblastogenesis and acts as a key regulator of the adipogenesis/osteogenesis balance (By similarity). Promotes adipogenesis by facilitating PPARG nuclear translocation which activates its transcriptional activity (By similarity). Regulates circadian expression of NOS2 in the liver and negatively regulates the circadian expression of IGF1 in the bone (By similarity). Critical for proper development of early embryos

## Target Details

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(By similarity). {ECO:0000250|UniProtKB:O35710, ECO:0000269|PubMed:29860338, ECO:0000269|PubMed:31147539}.

Molecular Weight: 48.2 kDa

UniProt: [Q9UK39](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months